ANALYTICAL REPORT

Job Number: 280-137736-1

Job Description: Cornhusker (CHAAP)

For:
Brice Environmental Services, Corp
3800 Centerpoint Drive, Suite 520
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Attention: Corey Schwabenlander



Approved for release.
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7/8/2020 8:51 PM

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The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
D	The reported value is from a dilution.
H	Sample was prepped or analyzed beyond the specified holding time
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
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)
TNTC	Too Numerous To Count

CASE NARRATIVE

Client: Brice Environmental Services, Corp

Project: Cornhusker (CHAAP)

Report Number: 280-137736-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 6/17/2020 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 9 coolers at receipt time were 0.5º C, 0.9º C, 0.9º C, 0.9º C, 1.0º C, 1.5º C, 1.6º C, 2.0º C and 2.2º C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): G0096-20A (280-137736-6). Two preserved plastic 250mL zinc acetate/NaOH containers were sent instead of one zinc acetate/NaOH & one unpreserved 250mL.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): G0296-20A (280-137736-7). The COC states there should be one plastic 250mL zinc acetate/NaOH and one unpreserved plastic, while there are two plastic 250mL unpreserved containers for this sample.

The following samples were not received with proper preservation for the methods requested on the chain of custody (COC). 280-137736-6 was received with two (2) - 250mL Plastic Sodium Hydroxide containers. The methods requested for this container are alkalinity and anions. These methods require unpreserved volume. This volume will be pulled from the 250mL Amber Unpreserved container. 280-137736-7 was received with two (2) 250mL Plastic Unpreserved containers. The method requested for this container is Sulfide. This method requires Sodium Hydroxide Zinc Acetate volume. This volume will be pulled from the 250mL Plastic Unpreserved container and will be preserved to the proper pH at the bench prior to analysis.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples WC-Q3-JUNE20 (280-137736-1) and TB03-061620 (280-137736-2) were analyzed for volatile organic compounds (GC/MS) in accordance with 8260B. The samples were analyzed on 06/24/2020.

1,1,2-Trichloro-1,2,2-trifluoroethane failed the recovery criteria low for LCS 280-499912/5. Refer to the QC report for details. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been reported. 1,1,2-Trichloro-1,2,2-trifluoroethane 69%R (70-136)%R, ME Limits (23-182)%R .

Bromomethane (-52.7%D) was outside control limits (50%D) in the closing continuing calibration verification (CCVC) associated with batch 499912
This compound is considered a poor performing compound as listed in the ETA'S Technical Specifications to the QSM and is excempt from 50% D criteria.

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

DISSOLVED GASES (GC)

Samples G0091-20A (280-137736-3), G0123-20A (280-137736-4), G0122-20A (280-137736-5), G0096-20A (280-137736-6), G0296-20A (280-137736-7), G0092-20A (280-137736-8), PZ019-20A (280-137736-9), PZ020-20A (280-137736-10), G0087-20A (280-137736-11), G0088-20A (280-137736-12), G0089-20A (280-137736-13), G0077-20A (280-137736-14), G0078-20A (280-137736-15), G0093-20A (280-137736-16) and G0086-20A (280-137736-17) were analyzed for Dissolved Gases (GC) in accordance with RSK_175. The samples were analyzed on 06/25/2020.

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

NITROAROMATICS AND NITRAMINES (HPLC)

Samples WC-Q3-JUNE20 (280-137736-1), G0091-20A (280-137736-3), G0123-20A (280-137736-4), G0122-20A (280-137736-5), G0096-20A (280-137736-6), G0296-20A (280-137736-7), G0092-20A (280-137736-8), PZ019-20A (280-137736-9), PZ020-20A (280-137736-10), G0087-20A (280-137736-11), G0088-20A (280-137736-12), G0089-20A (280-137736-13), G0077-20A (280-137736-14), G0078-20A (280-137736-15), G0093-20A (280-137736-16) and G0086-20A (280-137736-17) were analyzed for Nitroaromatics and Nitramines (HPLC) in accordance with 8330A. The samples were prepared on 06/19/2020, 06/20/2020 and 06/30/2020 and analyzed on 06/24/2020, 06/25/2020, 06/26/2020, 06/27/2020, 07/01/2020 and 07/02/2020.

1,2-Dinitrobenzene failed the surrogate recovery criteria low for G0077-20A (280-137736-14). 1,2-Dinitrobenzene failed the surrogate recovery criteria low for G0078-20A (280-137736-15). 1,2-Dinitrobenzene failed the surrogate recovery criteria low for G0093-20A (280-137736-16). 1,2-Dinitrobenzene failed the surrogate recovery criteria low for G0086-20A (280-137736-17). 1,2-Dinitrobenzene failed the surrogate recovery criteria high for G0123-20A (280-137736-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

1,2-Dinitrobenzene failed the surrogate recovery criteria low for LCS 280-499406/2-A. Refer to the QC report for details. 2-Amino-4,6-dinitrotoluene, 2-Nitrotoluene, 3-Nitrotoluene, 4-Amino-2,6-dinitrotoluene and 4-Nitrotoluene failed the recovery criteria low for LCS 280-499406/2-A. Refer to the QC report for details. The associated samples PZ020-20A (280-137736-10), G0087-20A (280-137736-11), G0088-20A (280-137736-12) and G0089-20A (280-137736-13) were re-extracted in prep batch 500616 outside of the holding time and reanalyzed. Both sets of results are reported.

Samples G0123-20A (280-137736-4)[20X], G0096-20A (280-137736-6)[10X] and G0296-20A (280-137736-7)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The continuing calibration verification (CCV) associated with batch 280-500691 recovered above the upper control limit for 2,6-Dinitrotoluene(15%D) at 15.3%D . The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: PZ020-20A (280-137736-10), G0087-20A (280-137736-11), G0088-20A (280-137736-12) and G0089-20A (280-137736-13).

The %RPD between the primary and confirmation column exceeded 40% for 4-Amino-2,6-dinitrotoluene, MNX, 2,4-Dinitrotoluene, 2,4,6-Trinitrotoluene and 2-Amino-4,6-dinitrotoluene for the following samples in preparation batch 280-499406 and 280-499527 and analytical batch 280-499988: G0091-20A (280-137736-3), G0123-20A (280-137736-4), G0122-20A (280-137736-5), G0096-20A (280-137736-6), G0088-20A (280-137736-12) and G0093-20A (280-137736-16). The results from both columns has been reported and qualified in accordance with the laboratory's QAS.

The following sample in preparation batch 280-499527 required filtration to reduce matrix interferences: WC-Q3-JUNE20 (280-137736-1).

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

ALKALINITY

Samples G0091-20A (280-137736-3), G0123-20A (280-137736-4), G0122-20A (280-137736-5), G0096-20A (280-137736-6), G0296-20A (280-137736-7), G0092-20A (280-137736-8), PZ019-20A (280-137736-9), PZ020-20A (280-137736-10), G0087-20A (280-137736-11), G0088-20A (280-137736-12), G0089-20A (280-137736-13), G0077-20A (280-137736-14), G0078-20A (280-137736-15), G0093-20A (280-137736-16) and G0086-20A (280-137736-17) were analyzed for Alkalinity in accordance with SM20 2320B. The samples were analyzed on 06/18/2020 and 06/19/2020.

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

AMMONIA

Samples G0091-20A (280-137736-3), G0123-20A (280-137736-4), G0122-20A (280-137736-5), G0096-20A (280-137736-6), G0296-20A (280-137736-7), G0092-20A (280-137736-8), PZ019-20A (280-137736-9), PZ020-20A (280-137736-10), G0087-20A (280-137736-11), G0088-20A (280-137736-12), G0089-20A (280-137736-13), G0077-20A (280-137736-14), G0078-20A (280-137736-15), G0093-20A (280-137736-16) and G0086-20A (280-137736-17) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 06/23/2020.

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

TOTAL KJELDAHL NITROGEN

Samples G0091-20A (280-137736-3), G0123-20A (280-137736-4), G0122-20A (280-137736-5), G0096-20A (280-137736-6), G0296-20A (280-137736-7), G0092-20A (280-137736-8), PZ019-20A (280-137736-9), PZ020-20A (280-137736-10), G0087-20A (280-137736-11), G0088-20A (280-137736-12), G0089-20A (280-137736-13), G0077-20A (280-137736-14), G0078-20A (280-137736-15), G0093-20A (280-137736-16) and G0086-20A (280-137736-17) were analyzed for total kjeldahl nitrogen in accordance with EPA Method 351.2. The samples were prepared on 06/23/2020 and analyzed on 06/24/2020.

Nitrogen, Total Kjeldahl failed the recovery criteria low for the MS of sample G0077-20AMS (280-137736-14) in batch 280-500036. Nitrogen, Total Kjeldahl failed the recovery criteria low for the MSD of sample G0077-20AMSD (280-137736-14) in batch 280-500036. Refer to the QC report for details.

Nitrogen, Total Kjeldahl failed the recovery criteria low for the MS of sample PZ019-20AMS (280-137736-9) in batch 280-500036. Nitrogen, Total Kjeldahl failed the recovery criteria low for the MSD of sample PZ019-20AMSD (280-137736-9) in batch 280-500036. Nitrogen, Total Kjeldahl exceeded the RPD limit. Refer to the QC report for details.

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

NITRATE-NITRITE AS NITROGEN

Samples G0091-20A (280-137736-3), G0123-20A (280-137736-4), G0122-20A (280-137736-5), G0096-20A (280-137736-6), G0296-20A (280-137736-7), G0092-20A (280-137736-8), PZ019-20A (280-137736-9), PZ020-20A (280-137736-10), G0087-20A (280-137736-11), G0088-20A (280-137736-12), G0089-20A (280-137736-13), G0077-20A (280-137736-14), G0078-20A (280-137736-15), G0093-20A (280-137736-16) and G0086-20A (280-137736-17) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 06/22/2020.

Nitrate Nitrite as N failed the recovery criteria low for the MS of sample PZ019-20AMS (280-137736-9) in batch 280-499726. Nitrate Nitrite as N failed the recovery criteria low for the MSD of sample PZ019-20AMSD (280-137736-9) in batch 280-499726. Refer to the QC report for details.

Samples G0091-20A (280-137736-3)[25X], G0096-20A (280-137736-6)[20X], G0296-20A (280-137736-7)[20X], PZ019-20A (280-137736-9)[5X], PZ020-20A (280-137736-10)[20X] and G0077-20A (280-137736-14)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

SULFIDE

Samples G0091-20A (280-137736-3), G0123-20A (280-137736-4), G0122-20A (280-137736-5), G0096-20A (280-137736-6), G0296-20A (280-137736-7), G0092-20A (280-137736-8), PZ019-20A (280-137736-9), PZ020-20A (280-137736-10), G0087-20A (280-137736-11), G0088-20A (280-137736-12), G0089-20A (280-137736-13), G0077-20A (280-137736-14), G0078-20A (280-137736-15), G0093-20A (280-137736-16) and G0086-20A (280-137736-17) were analyzed for sulfide in accordance with EPA SW-846 Method 9034. The samples were prepared and analyzed on 06/19/2020 and 06/22/2020.

Sulfide was detected in method blank MB 280-499634/2-A at a level that was below half the LOQ. The value should be considered an estimate, and has been flagged J.

The following sample was improperly preserved in the field: G0296-20A (280-137736-7). The sample was preserved at the bench top prior to analysis.

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

ANIONS (28 DAYS)

Samples G0091-20A (280-137736-3), G0123-20A (280-137736-4), G0122-20A (280-137736-5), G0096-20A (280-137736-6), G0296-20A (280-137736-7), G0092-20A (280-137736-8), PZ019-20A (280-137736-9), PZ020-20A (280-137736-10), G0087-20A (280-137736-11), G0088-20A (280-137736-12), G0089-20A (280-137736-13), G0077-20A (280-137736-14), G0078-20A (280-137736-15), G0093-20A (280-137736-16) and G0086-20A (280-137736-17) were analyzed for anions (28 days) in accordance with 9056A. The samples were analyzed on 06/30/2020 and 07/01/2020.

Samples G0123-20A (280-137736-4)[5X], G0122-20A (280-137736-5)[5X], G0092-20A (280-137736-8)[5X], G0088-20A (280-137736-12)[5X] and G0078-20A (280-137736-15)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

DISSOLVED ORGANIC CARBON

Samples G0091-20A (280-137736-3), G0123-20A (280-137736-4), G0122-20A (280-137736-5), G0096-20A (280-137736-6), G0296-20A (280-137736-7), G0092-20A (280-137736-8), PZ019-20A (280-137736-9), PZ020-20A (280-137736-10), G0087-20A (280-137736-11), G0088-20A (280-137736-12), G0089-20A (280-137736-13), G0077-20A (280-137736-14), G0078-20A (280-137736-15), G0093-20A (280-137736-16) and G0086-20A (280-137736-17) were analyzed for dissolved organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 07/03/2020 and 07/07/2020.

The following samples were filtered and preserved at the bench using sulfuric acid to bring their pH to <2, prior to analysis: G0091-20A (280-137736-3), G0123-20A (280-137736-4), G0122-20A (280-137736-5), G0096-20A (280-137736-6), G0296-20A (280-137736-7), G0092-20A (280-137736-8), PZ019-20A (280-137736-9), PZ020-20A (280-137736-10), G0087-20A (280-137736-11), G0088-20A (280-137736-12), G0089-20A (280-137736-13), G0077-20A (280-137736-14), G0078-20A (280-137736-15), G0093-20A (280-137736-16) and G0086-20A (280-137736-17)

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

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Detection Summary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137736-1

Client Sample ID: WC-Q3-JUNE20 — Lab Sample ID: 280-137736-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	14	Q	3.0	0.40	0.18	ug/L	1		8260B	Total/NA
Acetone	13		10	6.4	1.9	ug/L	1		8260B	Total/NA

Client Sample ID: TB03-061620 — Lab Sample ID: 280-137736-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bromodichloromethane	1.8		1.0	0.40	0.17	ug/L	1		8260B	Total/NA
Bromoform	0.97	J	1.0	1.0	0.46	ug/L	1		8260B	Total/NA
Chloroform	0.59	J	1.0	0.40	0.16	ug/L	1		8260B	Total/NA
Dibromochloromethane	2.5		1.0	0.40	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: G0091-20A — Lab Sample ID: 280-137736-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
2-Amino-4,6-dinitrotoluene	0.15		0.12	0.11	0.054	ug/L	1		8330A	Total/NA
4-Amino-2,6-dinitrotoluene	0.21	J1	0.16	0.13	0.061	ug/L	1		8330A	Total/NA
4-Amino-2,6-dinitrotoluene	0.14	J M J1	0.16	0.13	0.061	ug/L	1		8330A	Total/NA
RDX	0.59	M	0.22	0.21	0.055	ug/L	1		8330A	Total/NA
Nitrate Nitrite as N	40		2.5	1.3	0.48	mg/L	25		353.2	Total/NA
Sulfate	190		5.0	3.0	1.0	mg/L	1		9056A	Total/NA
Total Alkalinity as CaCO3	280		10	10	3.1	mg/L	1		SM 2320B	Total/NA
Dissolved Organic Carbon - Quad	3.8		1.0	1.0	0.35	mg/L	1		9060A	Dissolved

Client Sample ID: G0123-20A — Lab Sample ID: 280-137736-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Methane	15	M	0.0050	0.0020	0.00063	mg/L	1		RSK-175	Total/NA
2-Amino-4,6-dinitrotoluene	1.6		0.12	0.11	0.055	ug/L	1		8330A	Total/NA
4-Amino-2,6-dinitrotoluene	2.2		0.16	0.13	0.063	ug/L	1		8330A	Total/NA
MNX	5.9	M J1	2.2	0.43	0.17	ug/L	1		8330A	Total/NA
MNX	3.4	J1	2.2	0.43	0.17	ug/L	1		8330A	Total/NA
HMX - DL	62	D M Q	4.6	4.3	1.9	ug/L	20		8330A	Total/NA
RDX - DL	48	D Q	4.6	4.3	1.1	ug/L	20		8330A	Total/NA
Ammonia	0.24		0.10	0.050	0.022	mg/L	1		350.1	Total/NA
Nitrogen, Total Kjeldahl	0.84	J	1.0	1.0	0.69	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.31		0.10	0.050	0.019	mg/L	1		353.2	Total/NA
Sulfate	490	D	25	15	5.2	mg/L	5		9056A	Total/NA
Total Alkalinity as CaCO3	520		10	10	3.1	mg/L	1		SM 2320B	Total/NA
Dissolved Organic Carbon - Quad	5.6		1.0	1.0	0.35	mg/L	1		9060A	Dissolved

Client Sample ID: G0122-20A — Lab Sample ID: 280-137736-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Methane	8.5		0.0050	0.0020	0.00063	mg/L	1		RSK-175	Total/NA
1,3,5-Trinitrobenzene	2.4	M	0.22	0.21	0.089	ug/L	1		8330A	Total/NA
HMX	7.3	M	0.22	0.21	0.093	ug/L	1		8330A	Total/NA
MNX	0.36	J M J1	2.1	0.42	0.16	ug/L	1		8330A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: G0122-20A (Continued)
Lab Sample ID: 280-137736-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
MNX	0.59	J J1	2.1	0.42	0.16	ug/L	1		8330A	Total/NA
RDX	12	M	0.22	0.21	0.054	ug/L	1		8330A	Total/NA
Ammonia	1.9		0.10	0.050	0.022	mg/L	1		350.1	Total/NA
Nitrogen, Total Kjeldahl	3.0		1.0	1.0	0.69	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.82		0.10	0.050	0.019	mg/L	1		353.2	Total/NA
Sulfide	0.80	J	4.0	1.9	0.79	mg/L	1		9034	Total/NA
Sulfate	700	D	25	15	5.2	mg/L	5		9056A	Total/NA
Total Alkalinity as CaCO3	580		10	10	3.1	mg/L	1		SM 2320B	Total/NA
Dissolved Organic Carbon - Quad	7.0		1.0	1.0	0.35	mg/L	1		9060A	Dissolved

Client Sample ID: G0096-20A
Lab Sample ID: 280-137736-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Methane	5.1		0.0050	0.0020	0.00063	mg/L	1		RSK-175	Total/NA
1,3,5-Trinitrobenzene	13	M	0.23	0.22	0.091	ug/L	1		8330A	Total/NA
2,4,6-Trinitrotoluene	0.96	M	0.12	0.11	0.049	ug/L	1		8330A	Total/NA
2,4-Dinitrotoluene	0.047	J J1	0.11	0.086	0.030	ug/L	1		8330A	Total/NA
2,4-Dinitrotoluene	0.11	J1	0.11	0.086	0.030	ug/L	1		8330A	Total/NA
2-Amino-4,6-dinitrotoluene	1.1	M	0.12	0.11	0.055	ug/L	1		8330A	Total/NA
4-Amino-2,6-dinitrotoluene	1.5	M	0.16	0.13	0.062	ug/L	1		8330A	Total/NA
HMX	9.7	M	0.23	0.22	0.095	ug/L	1		8330A	Total/NA
MNX	1.6	J M	2.2	0.43	0.17	ug/L	1		8330A	Total/NA
RDX - DL	36	D M	2.3	2.2	0.56	ug/L	10		8330A	Total/NA
Ammonia	0.19		0.10	0.050	0.022	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	25		2.0	1.0	0.38	mg/L	20		353.2	Total/NA
Sulfate	85		5.0	3.0	1.0	mg/L	1		9056A	Total/NA
Total Alkalinity as CaCO3	280		10	10	3.1	mg/L	1		SM 2320B	Total/NA
Dissolved Organic Carbon - Quad	4.4		1.0	1.0	0.35	mg/L	1		9060A	Dissolved

Client Sample ID: G0296-20A
Lab Sample ID: 280-137736-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Methane	4.7		0.0050	0.0020	0.00063	mg/L	1		RSK-175	Total/NA
1,3,5-Trinitrobenzene	13	M	0.22	0.21	0.089	ug/L	1		8330A	Total/NA
2,4,6-Trinitrotoluene	1.0		0.12	0.11	0.048	ug/L	1		8330A	Total/NA
2,4-Dinitrotoluene	0.10	J	0.11	0.085	0.029	ug/L	1		8330A	Total/NA
2-Amino-4,6-dinitrotoluene	1.1		0.12	0.11	0.054	ug/L	1		8330A	Total/NA
4-Amino-2,6-dinitrotoluene	1.6		0.16	0.13	0.061	ug/L	1		8330A	Total/NA
HMX	9.7	M	0.22	0.21	0.093	ug/L	1		8330A	Total/NA
MNX	1.5	J M	2.1	0.43	0.16	ug/L	1		8330A	Total/NA
RDX - DL	36	D M	2.2	2.1	0.55	ug/L	10		8330A	Total/NA
Ammonia	0.19		0.10	0.050	0.022	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	26		2.0	1.0	0.38	mg/L	20		353.2	Total/NA
Sulfide	0.80	J	4.0	1.9	0.79	mg/L	1		9034	Total/NA
Sulfate	84		5.0	3.0	1.0	mg/L	1		9056A	Total/NA
Total Alkalinity as CaCO3	280		10	10	3.1	mg/L	1		SM 2320B	Total/NA
Dissolved Organic Carbon - Quad	4.2		1.0	1.0	0.35	mg/L	1		9060A	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137736-1

Client Sample ID: G0092-20A — Lab Sample ID: 280-137736-8

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.018		0.0050	0.0020	0.00063	mg/L	1		RSK-175	Total/NA
Ammonia	0.031	J	0.10	0.050	0.022	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.18		0.10	0.050	0.019	mg/L	1		353.2	Total/NA
Sulfide	0.80	J	4.0	1.9	0.79	mg/L	1		9034	Total/NA
Sulfate	330	D	25	15	5.2	mg/L	5		9056A	Total/NA
Total Alkalinity as CaCO3	350		10	10	3.1	mg/L	1		SM 2320B	Total/NA
Dissolved Organic Carbon - Quad	2.9		1.0	1.0	0.35	mg/L	1		9060A	Dissolved

Client Sample ID: PZ019-20A — Lab Sample ID: 280-137736-9

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Nitrate Nitrite as N	34	J1	0.50	0.25	0.095	mg/L	5		353.2	Total/NA
Sulfate	58		5.0	3.0	1.0	mg/L	1		9056A	Total/NA
Total Alkalinity as CaCO3	75		10	10	3.1	mg/L	1		SM 2320B	Total/NA
Dissolved Organic Carbon - Quad	2.0		1.0	1.0	0.35	mg/L	1		9060A	Dissolved

Client Sample ID: PZ020-20A — Lab Sample ID: 280-137736-10

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trinitrobenzene	1.5	M	0.22	0.21	0.088	ug/L	1		8330A	Total/NA
2,4,6-Trinitrotoluene	2.2		0.11	0.10	0.047	ug/L	1		8330A	Total/NA
RDX	0.58	M	0.22	0.21	0.054	ug/L	1		8330A	Total/NA
1,3,5-Trinitrobenzene - RE	1.5	M H	0.23	0.22	0.090	ug/L	1		8330A	Total/NA
2,4,6-Trinitrotoluene - RE	2.3	M H	0.12	0.11	0.048	ug/L	1		8330A	Total/NA
2-Amino-4,6-dinitrotoluene - RE	1.7	M H	0.12	0.11	0.055	ug/L	1		8330A	Total/NA
4-Amino-2,6-dinitrotoluene - RE	1.8	M H	0.16	0.13	0.062	ug/L	1		8330A	Total/NA
RDX - RE	0.51	M H	0.23	0.22	0.055	ug/L	1		8330A	Total/NA
Ammonia	0.032	J	0.10	0.050	0.022	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	38		2.0	1.0	0.38	mg/L	20		353.2	Total/NA
Sulfate	190		5.0	3.0	1.0	mg/L	1		9056A	Total/NA
Total Alkalinity as CaCO3	310		10	10	3.1	mg/L	1		SM 2320B	Total/NA
Dissolved Organic Carbon - Quad	6.4		1.0	1.0	0.35	mg/L	1		9060A	Dissolved

Client Sample ID: G0087-20A — Lab Sample ID: 280-137736-11

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
HMX	0.37	M	0.23	0.21	0.094	ug/L	1		8330A	Total/NA
RDX	0.15	J M	0.23	0.21	0.055	ug/L	1		8330A	Total/NA
HMX - RE	0.39	M H	0.22	0.21	0.093	ug/L	1		8330A	Total/NA
RDX - RE	0.16	J M H	0.22	0.21	0.055	ug/L	1		8330A	Total/NA
Ammonia	0.032	J	0.10	0.050	0.022	mg/L	1		350.1	Total/NA
Nitrogen, Total Kjeldahl	1.1		1.0	1.0	0.69	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	2.7		0.10	0.050	0.019	mg/L	1		353.2	Total/NA
Sulfate	110		5.0	3.0	1.0	mg/L	1		9056A	Total/NA
Total Alkalinity as CaCO3	310		10	10	3.1	mg/L	1		SM 2320B	Total/NA
Dissolved Organic Carbon - Quad	2.9		1.0	1.0	0.35	mg/L	1		9060A	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137736-1

Client Sample ID: G0088-20A — Lab Sample ID: 280-137736-12

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.0029	J	0.0050	0.0020	0.00063	mg/L	1		RSK-175	Total/NA
1,3,5-Trinitrobenzene	4.7		0.22	0.21	0.088	ug/L	1		8330A	Total/NA
2,4,6-Trinitrotoluene	0.63	J1	0.11	0.10	0.047	ug/L	1		8330A	Total/NA
2,4,6-Trinitrotoluene	0.41	J1 M	0.11	0.10	0.047	ug/L	1		8330A	Total/NA
2-Amino-4,6-dinitrotoluene	0.44	Q	0.11	0.10	0.053	ug/L	1		8330A	Total/NA
4-Amino-2,6-dinitrotoluene	0.44	Q	0.16	0.13	0.060	ug/L	1		8330A	Total/NA
1,3,5-Trinitrobenzene - RE	5.5	M H	0.22	0.21	0.089	ug/L	1		8330A	Total/NA
2,4,6-Trinitrotoluene - RE	0.72	M H	0.12	0.11	0.047	ug/L	1		8330A	Total/NA
Ammonia	0.088	J	0.10	0.050	0.022	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	1.2		0.10	0.050	0.019	mg/L	1		353.2	Total/NA
Sulfide	0.80	J	4.0	1.9	0.79	mg/L	1		9034	Total/NA
Sulfate	190	D	25	15	5.2	mg/L	5		9056A	Total/NA
Total Alkalinity as CaCO3	280		10	10	3.1	mg/L	1		SM 2320B	Total/NA
Dissolved Organic Carbon - Quad	2.5		1.0	1.0	0.35	mg/L	1		9060A	Dissolved

Client Sample ID: G0089-20A — Lab Sample ID: 280-137736-13

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Methane	3.4		0.0050	0.0020	0.00063	mg/L	1		RSK-175	Total/NA
1,3,5-Trinitrobenzene	2.6	M	0.22	0.21	0.088	ug/L	1		8330A	Total/NA
2,4,6-Trinitrotoluene	1.7		0.12	0.10	0.047	ug/L	1		8330A	Total/NA
1,3,5-Trinitrobenzene - RE	1.8	M H	0.23	0.21	0.090	ug/L	1		8330A	Total/NA
2,4,6-Trinitrotoluene - RE	1.6	H	0.12	0.11	0.048	ug/L	1		8330A	Total/NA
Ammonia	0.16		0.10	0.050	0.022	mg/L	1		350.1	Total/NA
Nitrogen, Total Kjeldahl	1.4		1.0	1.0	0.69	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.88		0.10	0.050	0.019	mg/L	1		353.2	Total/NA
Sulfide	0.80	J	4.0	1.9	0.79	mg/L	1		9034	Total/NA
Sulfate	110		5.0	3.0	1.0	mg/L	1		9056A	Total/NA
Total Alkalinity as CaCO3	330		10	10	3.1	mg/L	1		SM 2320B	Total/NA
Dissolved Organic Carbon - Quad	5.8		1.0	1.0	0.35	mg/L	1		9060A	Dissolved

Client Sample ID: G0077-20A — Lab Sample ID: 280-137736-14

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trinitrobenzene	1.9	Q	0.22	0.21	0.089	ug/L	1		8330A	Total/NA
2,4,6-Trinitrotoluene	3.3	Q	0.12	0.11	0.047	ug/L	1		8330A	Total/NA
2-Amino-4,6-dinitrotoluene	1.2	Q	0.12	0.11	0.053	ug/L	1		8330A	Total/NA
4-Amino-2,6-dinitrotoluene	1.1	Q	0.16	0.13	0.061	ug/L	1		8330A	Total/NA
RDX	0.46	Q	0.22	0.21	0.054	ug/L	1		8330A	Total/NA
Ammonia	0.052	J	0.10	0.050	0.022	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	13		1.0	0.50	0.19	mg/L	10		353.2	Total/NA
Sulfide	0.80	J	4.0	1.9	0.79	mg/L	1		9034	Total/NA
Sulfate	99		5.0	3.0	1.0	mg/L	1		9056A	Total/NA
Total Alkalinity as CaCO3	260		10	10	3.1	mg/L	1		SM 2320B	Total/NA
Dissolved Organic Carbon - Quad	3.6		1.0	1.0	0.35	mg/L	1		9060A	Dissolved

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137736-1

Client Sample ID: G0078-20A — Lab Sample ID: 280-137736-15

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.13		0.0050	0.0020	0.00063	mg/L	1		RSK-175	Total/NA
Ammonia	0.46		0.10	0.050	0.022	mg/L	1		350.1	Total/NA
Sulfate	250	D	25	15	5.2	mg/L	5		9056A	Total/NA
Total Alkalinity as CaCO3	340		10	10	3.1	mg/L	1		SM 2320B	Total/NA
Dissolved Organic Carbon - Quad	3.8		1.0	1.0	0.35	mg/L	1		9060A	Dissolved

Client Sample ID: G0093-20A — Lab Sample ID: 280-137736-16

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Methane	5.8		0.0050	0.0020	0.00063	mg/L	1		RSK-175	Total/NA
1,3,5-Trinitrobenzene	0.45	Q M	0.23	0.21	0.090	ug/L	1		8330A	Total/NA
2-Amino-4,6-dinitrotoluene	1.8	Q J1	0.12	0.11	0.054	ug/L	1		8330A	Total/NA
2-Amino-4,6-dinitrotoluene	0.51	Q M J1	0.12	0.11	0.054	ug/L	1		8330A	Total/NA
Ammonia	1.2		0.10	0.050	0.022	mg/L	1		350.1	Total/NA
Nitrogen, Total Kjeldahl	1.5		1.0	1.0	0.69	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.30		0.10	0.050	0.019	mg/L	1		353.2	Total/NA
Sulfate	140		5.0	3.0	1.0	mg/L	1		9056A	Total/NA
Total Alkalinity as CaCO3	350		10	10	3.1	mg/L	1		SM 2320B	Total/NA
Dissolved Organic Carbon - Quad	5.4		1.0	1.0	0.35	mg/L	1		9060A	Dissolved

Client Sample ID: G0086-20A — Lab Sample ID: 280-137736-17

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.022		0.0050	0.0020	0.00063	mg/L	1		RSK-175	Total/NA
1,3,5-Trinitrobenzene	9.4	Q	0.22	0.21	0.088	ug/L	1		8330A	Total/NA
2,4,6-Trinitrotoluene	3.6	Q	0.12	0.10	0.047	ug/L	1		8330A	Total/NA
2-Amino-4,6-dinitrotoluene	1.6	Q	0.12	0.10	0.053	ug/L	1		8330A	Total/NA
4-Amino-2,6-dinitrotoluene	1.1	Q	0.16	0.13	0.061	ug/L	1		8330A	Total/NA
RDX	0.21	J Q	0.22	0.21	0.054	ug/L	1		8330A	Total/NA
Ammonia	0.025	J	0.10	0.050	0.022	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	6.5		0.10	0.050	0.019	mg/L	1		353.2	Total/NA
Sulfate	130		5.0	3.0	1.0	mg/L	1		9056A	Total/NA
Total Alkalinity as CaCO3	280		10	10	3.1	mg/L	1		SM 2320B	Total/NA
Dissolved Organic Carbon - Quad	3.6		1.0	1.0	0.35	mg/L	1		9060A	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: WC-Q3-JUNE20
Lab Sample ID: 280-137736-1

Date Collected: 06/16/20 17:30
Matrix: Water

Date Received: 06/17/20 09:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.40	U	1.0	0.40	0.16	ug/L		06/24/20 17:07	1
1,1,2,2-Tetrachloroethane	0.80	U	1.0	0.80	0.21	ug/L		06/24/20 17:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**14**	**Q**	3.0	0.40	0.18	ug/L		06/24/20 17:07	1
1,1,2-Trichloroethane	0.80	U	1.0	0.80	0.27	ug/L		06/24/20 17:07	1
1,1-Dichloroethane	0.80	U	1.0	0.80	0.22	ug/L		06/24/20 17:07	1
1,1-Dichloroethene	0.80	U	1.0	0.80	0.23	ug/L		06/24/20 17:07	1
1,2,3-Trichlorobenzene	0.80	U	1.0	0.80	0.21	ug/L		06/24/20 17:07	1
1,2,4-Trichlorobenzene	0.80	U	1.0	0.80	0.21	ug/L		06/24/20 17:07	1
1,2-Dibromo-3-Chloropropane	1.6	U	5.0	1.6	0.47	ug/L		06/24/20 17:07	1
1,2-Dichlorobenzene	0.40	U	1.0	0.40	0.15	ug/L		06/24/20 17:07	1
1,2-Dichloroethane	0.40	U	1.0	0.40	0.13	ug/L		06/24/20 17:07	1
1,2-Dichloropropane	0.40	U	1.0	0.40	0.18	ug/L		06/24/20 17:07	1
1,3-Dichlorobenzene	0.40	U	1.0	0.40	0.13	ug/L		06/24/20 17:07	1
1,4-Dichlorobenzene	0.40	U	1.0	0.40	0.16	ug/L		06/24/20 17:07	1
2-Butanone (MEK)	4.0	U	6.0	4.0	2.0	ug/L		06/24/20 17:07	1
2-Hexanone	4.0	U	5.0	4.0	1.7	ug/L		06/24/20 17:07	1
4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	3.2	0.98	ug/L		06/24/20 17:07	1
Acetone	**13**		10	6.4	1.9	ug/L		06/24/20 17:07	1
Benzene	0.40	U	1.0	0.40	0.16	ug/L		06/24/20 17:07	1
Bromochloromethane	0.20	U	1.0	0.20	0.10	ug/L		06/24/20 17:07	1
Bromodichloromethane	0.40	U	1.0	0.40	0.17	ug/L		06/24/20 17:07	1
Bromoform	1.0	U	1.0	1.0	0.46	ug/L		06/24/20 17:07	1
Bromomethane	0.80	U Q	2.0	0.80	0.21	ug/L		06/24/20 17:07	1
Carbon disulfide	0.80	U	2.0	0.80	0.17	ug/L		06/24/20 17:07	1
Carbon tetrachloride	0.40	U	2.0	0.40	0.19	ug/L		06/24/20 17:07	1
Chlorobenzene	0.40	U	1.0	0.40	0.17	ug/L		06/24/20 17:07	1
Chloroethane	1.6	U	2.0	1.6	0.41	ug/L		06/24/20 17:07	1
Chloroform	0.40	U	1.0	0.40	0.16	ug/L		06/24/20 17:07	1
Chloromethane	0.80	U	2.0	0.80	0.30	ug/L		06/24/20 17:07	1
cis-1,2-Dichloroethene	0.40	U	1.0	0.40	0.15	ug/L		06/24/20 17:07	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	0.16	ug/L		06/24/20 17:07	1
Cyclohexane	0.80	U	2.0	0.80	0.28	ug/L		06/24/20 17:07	1
Dibromochloromethane	0.40	U	1.0	0.40	0.17	ug/L		06/24/20 17:07	1
Dichlorodifluoromethane	0.80	U	2.0	0.80	0.31	ug/L		06/24/20 17:07	1
Ethylbenzene	0.40	U	1.0	0.40	0.16	ug/L		06/24/20 17:07	1
Ethylene Dibromide	0.40	U	1.0	0.40	0.18	ug/L		06/24/20 17:07	1
Isopropylbenzene	0.40	U	1.0	0.40	0.19	ug/L		06/24/20 17:07	1
Methyl acetate	4.0	U	5.0	4.0	1.6	ug/L		06/24/20 17:07	1
Methyl tert-butyl ether	0.80	U	5.0	0.80	0.25	ug/L		06/24/20 17:07	1
Methylcyclohexane	0.40	U	2.0	0.40	0.10	ug/L		06/24/20 17:07	1
Methylene Chloride	2.0	U	5.0	2.0	0.94	ug/L		06/24/20 17:07	1
Styrene	0.80	U	1.0	0.80	0.36	ug/L		06/24/20 17:07	1
Tetrachloroethene	0.40	U	1.0	0.40	0.20	ug/L		06/24/20 17:07	1
Toluene	0.40	U	1.0	0.40	0.17	ug/L		06/24/20 17:07	1
trans-1,2-Dichloroethene	0.40	U	1.0	0.40	0.15	ug/L		06/24/20 17:07	1
trans-1,3-Dichloropropene	0.40	U	1.0	0.40	0.19	ug/L		06/24/20 17:07	1
Trichloroethene	0.40	U	1.0	0.40	0.16	ug/L		06/24/20 17:07	1
Trichlorofluoromethane	0.80	U	2.0	0.80	0.29	ug/L		06/24/20 17:07	1
Vinyl chloride	0.20	U	1.5	0.20	0.10	ug/L		06/24/20 17:07	1

Client Sample ID: WC-Q3-JUNE20
Lab Sample ID: 280-137736-1
Date Collected: 06/16/20 17:30
Matrix: Water
Date Received: 06/17/20 09:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Xylenes, Total	0.80	U	1.0	0.80	0.19	ug/L		06/24/20 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*81 - 118*		*06/24/20 17:07*	*1*
4-Bromofluorobenzene (Surr)	*99*		*85 - 114*		*06/24/20 17:07*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 119*		*06/24/20 17:07*	*1*
Toluene-d8 (Surr)	*98*		*89 - 112*		*06/24/20 17:07*	*1*

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.21	U	0.22	0.21	0.088	ug/L		06/24/20 18:57	1
1,3-Dinitrobenzene	0.11	U M	0.12	0.11	0.039	ug/L		06/24/20 18:57	1
2,4,6-Trinitrotoluene	0.11	U M	0.12	0.11	0.047	ug/L		06/24/20 18:57	1
2,4-Dinitrotoluene	0.084	U M	0.11	0.084	0.029	ug/L		06/24/20 18:57	1
2,6-Dinitrotoluene	0.084	U	0.11	0.084	0.042	ug/L		06/24/20 18:57	1
2-Amino-4,6-dinitrotoluene	0.11	U M	0.12	0.11	0.053	ug/L		06/24/20 18:57	1
2-Nitrotoluene	0.21	U M	0.22	0.21	0.090	ug/L		06/24/20 18:57	1
3-Nitrotoluene	0.42	U	0.42	0.42	0.21	ug/L		06/24/20 18:57	1
4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.061	ug/L		06/24/20 18:57	1
4-Nitrotoluene	0.42	U M	0.43	0.42	0.11	ug/L		06/24/20 18:57	1
HMX	0.21	U	0.22	0.21	0.092	ug/L		06/24/20 18:57	1
MNX	0.42	U M	2.1	0.42	0.16	ug/L		06/24/20 18:57	1
Nitrobenzene	0.21	U M	0.22	0.21	0.096	ug/L		06/24/20 18:57	1
RDX	0.21	U Q	0.22	0.21	0.054	ug/L		06/26/20 21:29	1
Tetryl	0.11	U	0.12	0.11	0.033	ug/L		06/24/20 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*115*	*M*	*83 - 119*	*06/20/20 17:13*	*06/24/20 18:57*	*1*
1,2-Dinitrobenzene	*169*	*M Q*	*83 - 119*	*06/20/20 17:13*	*06/26/20 21:29*	*1*

Client Sample ID: TB03-061620
Lab Sample ID: 280-137736-2
Date Collected: 06/16/20 17:00
Matrix: Water
Date Received: 06/17/20 09:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.40	U	1.0	0.40	0.16	ug/L		06/24/20 17:29	1
1,1,2,2-Tetrachloroethane	0.80	U	1.0	0.80	0.21	ug/L		06/24/20 17:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.40	U Q	3.0	0.40	0.18	ug/L		06/24/20 17:29	1
1,1,2-Trichloroethane	0.80	U	1.0	0.80	0.27	ug/L		06/24/20 17:29	1
1,1-Dichloroethane	0.80	U	1.0	0.80	0.22	ug/L		06/24/20 17:29	1
1,1-Dichloroethene	0.80	U	1.0	0.80	0.23	ug/L		06/24/20 17:29	1
1,2,3-Trichlorobenzene	0.80	U	1.0	0.80	0.21	ug/L		06/24/20 17:29	1
1,2,4-Trichlorobenzene	0.80	U	1.0	0.80	0.21	ug/L		06/24/20 17:29	1
1,2-Dibromo-3-Chloropropane	1.6	U	5.0	1.6	0.47	ug/L		06/24/20 17:29	1
1,2-Dichlorobenzene	0.40	U	1.0	0.40	0.15	ug/L		06/24/20 17:29	1
1,2-Dichloroethane	0.40	U	1.0	0.40	0.13	ug/L		06/24/20 17:29	1
1,2-Dichloropropane	0.40	U	1.0	0.40	0.18	ug/L		06/24/20 17:29	1
1,3-Dichlorobenzene	0.40	U	1.0	0.40	0.13	ug/L		06/24/20 17:29	1
1,4-Dichlorobenzene	0.40	U	1.0	0.40	0.16	ug/L		06/24/20 17:29	1
2-Butanone (MEK)	4.0	U	6.0	4.0	2.0	ug/L		06/24/20 17:29	1

Client Sample ID: TB03-061620
Lab Sample ID: 280-137736-2

Date Collected: 06/16/20 17:00
Matrix: Water
Date Received: 06/17/20 09:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	4.0	U	5.0	4.0	1.7	ug/L		06/24/20 17:29	1
4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	3.2	0.98	ug/L		06/24/20 17:29	1
Acetone	6.4	U	10	6.4	1.9	ug/L		06/24/20 17:29	1
Benzene	0.40	U	1.0	0.40	0.16	ug/L		06/24/20 17:29	1
Bromochloromethane	0.20	U	1.0	0.20	0.10	ug/L		06/24/20 17:29	1
Bromodichloromethane	**1.8**		1.0	0.40	0.17	ug/L		06/24/20 17:29	1
Bromoform	**0.97**	**J**	1.0	1.0	0.46	ug/L		06/24/20 17:29	1
Bromomethane	0.80	U Q	2.0	0.80	0.21	ug/L		06/24/20 17:29	1
Carbon disulfide	0.80	U	2.0	0.80	0.17	ug/L		06/24/20 17:29	1
Carbon tetrachloride	0.40	U	2.0	0.40	0.19	ug/L		06/24/20 17:29	1
Chlorobenzene	0.40	U	1.0	0.40	0.17	ug/L		06/24/20 17:29	1
Chloroethane	1.6	U	2.0	1.6	0.41	ug/L		06/24/20 17:29	1
Chloroform	**0.59**	**J**	1.0	0.40	0.16	ug/L		06/24/20 17:29	1
Chloromethane	0.80	U	2.0	0.80	0.30	ug/L		06/24/20 17:29	1
cis-1,2-Dichloroethene	0.40	U	1.0	0.40	0.15	ug/L		06/24/20 17:29	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	0.16	ug/L		06/24/20 17:29	1
Cyclohexane	0.80	U	2.0	0.80	0.28	ug/L		06/24/20 17:29	1
Dibromochloromethane	**2.5**		1.0	0.40	0.17	ug/L		06/24/20 17:29	1
Dichlorodifluoromethane	0.80	U	2.0	0.80	0.31	ug/L		06/24/20 17:29	1
Ethylbenzene	0.40	U	1.0	0.40	0.16	ug/L		06/24/20 17:29	1
Ethylene Dibromide	0.40	U	1.0	0.40	0.18	ug/L		06/24/20 17:29	1
Isopropylbenzene	0.40	U	1.0	0.40	0.19	ug/L		06/24/20 17:29	1
Methyl acetate	4.0	U	5.0	4.0	1.6	ug/L		06/24/20 17:29	1
Methyl tert-butyl ether	0.80	U	5.0	0.80	0.25	ug/L		06/24/20 17:29	1
Methylcyclohexane	0.40	U	2.0	0.40	0.10	ug/L		06/24/20 17:29	1
Methylene Chloride	2.0	U	5.0	2.0	0.94	ug/L		06/24/20 17:29	1
Styrene	0.80	U	1.0	0.80	0.36	ug/L		06/24/20 17:29	1
Tetrachloroethene	0.40	U	1.0	0.40	0.20	ug/L		06/24/20 17:29	1
Toluene	0.40	U	1.0	0.40	0.17	ug/L		06/24/20 17:29	1
trans-1,2-Dichloroethene	0.40	U	1.0	0.40	0.15	ug/L		06/24/20 17:29	1
trans-1,3-Dichloropropene	0.40	U	1.0	0.40	0.19	ug/L		06/24/20 17:29	1
Trichloroethene	0.40	U	1.0	0.40	0.16	ug/L		06/24/20 17:29	1
Trichlorofluoromethane	0.80	U	2.0	0.80	0.29	ug/L		06/24/20 17:29	1
Vinyl chloride	0.20	U	1.5	0.20	0.10	ug/L		06/24/20 17:29	1
Xylenes, Total	0.80	U	1.0	0.80	0.19	ug/L		06/24/20 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*81 - 118*		*06/24/20 17:29*	*1*
4-Bromofluorobenzene (Surr)	*99*		*85 - 114*		*06/24/20 17:29*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 119*		*06/24/20 17:29*	*1*
Toluene-d8 (Surr)	*97*		*89 - 112*		*06/24/20 17:29*	*1*

Client Sample ID: G0091-20A
Lab Sample ID: 280-137736-3

Date Collected: 06/16/20 09:35
Matrix: Water
Date Received: 06/17/20 09:20

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methane	0.0020	U	0.0050	0.0020	0.00063	mg/L		06/25/20 13:55	1

Client Sample ID: G0091-20A
Lab Sample ID: 280-137736-3

Date Collected: 06/16/20 09:35
Matrix: Water
Date Received: 06/17/20 09:20

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.21	U	0.22	0.21	0.089	ug/L		06/24/20 19:20	1
1,3-Dinitrobenzene	0.11	U	0.12	0.11	0.039	ug/L		06/24/20 19:20	1
2,4,6-Trinitrotoluene	0.11	U	0.12	0.11	0.048	ug/L		06/24/20 19:20	1
2,4-Dinitrotoluene	0.085	U	0.11	0.085	0.029	ug/L		06/24/20 19:20	1
2,6-Dinitrotoluene	0.085	U	0.11	0.085	0.042	ug/L		06/24/20 19:20	1
2-Amino-4,6-dinitrotoluene	**0.15**		0.12	0.11	0.054	ug/L		06/24/20 19:20	1
2-Nitrotoluene	0.21	U	0.22	0.21	0.091	ug/L		06/24/20 19:20	1
3-Nitrotoluene	0.42	U	0.42	0.42	0.21	ug/L		06/26/20 22:04	1
4-Amino-2,6-dinitrotoluene	**0.21**	**J1**	0.16	0.13	0.061	ug/L		06/24/20 19:20	1
4-Amino-2,6-dinitrotoluene	**0.14**	**J M J1**	0.16	0.13	0.061	ug/L		06/26/20 22:04	1
4-Nitrotoluene	0.42	U	0.43	0.42	0.11	ug/L		06/24/20 19:20	1
HMX	0.21	U	0.22	0.21	0.093	ug/L		06/24/20 19:20	1
MNX	0.42	U	2.1	0.42	0.16	ug/L		06/24/20 19:20	1
Nitrobenzene	0.21	U	0.22	0.21	0.096	ug/L		06/26/20 22:04	1
RDX	**0.59**	**M**	0.22	0.21	0.055	ug/L		06/24/20 19:20	1
Tetryl	0.11	U	0.12	0.11	0.034	ug/L		06/24/20 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*95*	*M*	*83 - 119*	*06/20/20 17:13*	*06/24/20 19:20*	*1*
1,2-Dinitrobenzene	*90*	*M*	*83 - 119*	*06/20/20 17:13*	*06/26/20 22:04*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ammonia	0.050	U	0.10	0.050	0.022	mg/L		06/23/20 12:05	1
Nitrogen, Total Kjeldahl	1.0	U	1.0	1.0	0.69	mg/L		06/24/20 18:44	1
Nitrate Nitrite as N	**40**		2.5	1.3	0.48	mg/L		06/22/20 20:12	25
Sulfide	1.9	U	4.0	1.9	0.79	mg/L		06/22/20 12:04	1
Sulfate	**190**		5.0	3.0	1.0	mg/L		06/30/20 22:05	1
Total Alkalinity as CaCO3	**280**		10	10	3.1	mg/L		06/18/20 18:06	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Dissolved Organic Carbon - Quad	**3.8**		1.0	1.0	0.35	mg/L		07/07/20 02:55	1

Client Sample ID: G0123-20A
Lab Sample ID: 280-137736-4

Date Collected: 06/16/20 13:20
Matrix: Water
Date Received: 06/17/20 09:20

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methane	**15**	**M**	0.0050	0.0020	0.00063	mg/L		06/25/20 14:08	1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.22	U	0.23	0.22	0.091	ug/L		06/24/20 19:43	1
1,3-Dinitrobenzene	0.11	U M	0.12	0.11	0.040	ug/L		06/24/20 19:43	1
2,4,6-Trinitrotoluene	0.11	U	0.12	0.11	0.049	ug/L		06/24/20 19:43	1
2,4-Dinitrotoluene	0.087	U	0.11	0.087	0.030	ug/L		06/24/20 19:43	1
2,6-Dinitrotoluene	0.087	U	0.11	0.087	0.044	ug/L		06/24/20 19:43	1
2-Amino-4,6-dinitrotoluene	**1.6**		0.12	0.11	0.055	ug/L		06/24/20 19:43	1
2-Nitrotoluene	0.22	U	0.23	0.22	0.093	ug/L		06/24/20 19:43	1

Client Sample ID: G0123-20A

Date Collected: 06/16/20 13:20
Date Received: 06/17/20 09:20

Lab Sample ID: 280-137736-4

Matrix: Water

Method: 8330A - Nitroaromatics and Nitramines (HPLC) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
3-Nitrotoluene	0.43	U	0.43	0.43	0.21	ug/L		06/24/20 19:43	1
4-Amino-2,6-dinitrotoluene	**2.2**		0.16	0.13	0.063	ug/L		06/24/20 19:43	1
4-Nitrotoluene	0.43	U	0.45	0.43	0.11	ug/L		06/24/20 19:43	1
MNX	**5.9**	**M J1**	2.2	0.43	0.17	ug/L		06/24/20 19:43	1
MNX	**3.4**	**J1**	2.2	0.43	0.17	ug/L		06/26/20 22:39	1
Nitrobenzene	0.22	U M	0.23	0.22	0.099	ug/L		06/24/20 19:43	1
Tetryl	0.11	U M	0.12	0.11	0.035	ug/L		06/24/20 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*98*	*M*	*83 - 119*	*06/20/20 17:13*	*06/24/20 19:43*	*1*
1,2-Dinitrobenzene	*90*		*83 - 119*	*06/20/20 17:13*	*06/26/20 22:39*	*1*

Method: 8330A - Nitroaromatics and Nitramines (HPLC) - DL

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
HMX	**62**	**D M Q**	4.6	4.3	1.9	ug/L		06/26/20 18:21	20
RDX	**48**	**D Q**	4.6	4.3	1.1	ug/L		06/26/20 18:21	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*125*	*D M Q*	*83 - 119*	*06/20/20 17:13*	*06/26/20 18:21*	*20*
1,2-Dinitrobenzene	*105*	*M D*	*83 - 119*	*06/20/20 17:13*	*06/26/20 23:14*	*20*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ammonia	**0.24**		0.10	0.050	0.022	mg/L		06/23/20 12:07	1
Nitrogen, Total Kjeldahl	**0.84**	**J**	1.0	1.0	0.69	mg/L		06/24/20 18:45	1
Nitrate Nitrite as N	**0.31**		0.10	0.050	0.019	mg/L		06/22/20 20:14	1
Sulfide	1.9	U	4.0	1.9	0.79	mg/L		06/22/20 12:04	1
Sulfate	**490**	**D**	25	15	5.2	mg/L		06/30/20 22:22	5
Total Alkalinity as CaCO3	**520**		10	10	3.1	mg/L		06/18/20 18:13	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Dissolved Organic Carbon - Quad	**5.6**		1.0	1.0	0.35	mg/L		07/07/20 03:17	1

Client Sample ID: G0122-20A

Date Collected: 06/16/20 11:55
Date Received: 06/17/20 09:20

Lab Sample ID: 280-137736-5

Matrix: Water

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methane	**8.5**		0.0050	0.0020	0.00063	mg/L		06/25/20 14:20	1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**2.4**	**M**	0.22	0.21	0.089	ug/L		06/24/20 20:06	1
1,3-Dinitrobenzene	0.11	U	0.12	0.11	0.039	ug/L		06/24/20 20:06	1
2,4,6-Trinitrotoluene	0.11	U M	0.12	0.11	0.048	ug/L		06/26/20 23:49	1
2,4-Dinitrotoluene	0.085	U M	0.11	0.085	0.029	ug/L		06/26/20 23:49	1
2,6-Dinitrotoluene	0.085	U	0.11	0.085	0.042	ug/L		06/24/20 20:06	1
2-Amino-4,6-dinitrotoluene	0.11	U M	0.12	0.11	0.054	ug/L		06/24/20 20:06	1
2-Nitrotoluene	0.21	U	0.22	0.21	0.090	ug/L		06/24/20 20:06	1

Client Sample ID: G0122-20A
Lab Sample ID: 280-137736-5

Date Collected: 06/16/20 11:55
Matrix: Water
Date Received: 06/17/20 09:20

Method: 8330A - Nitroaromatics and Nitramines (HPLC) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
3-Nitrotoluene	0.42	U M	0.42	0.42	0.21	ug/L		06/24/20 20:06	1
4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.061	ug/L		06/26/20 23:49	1
4-Nitrotoluene	0.42	U	0.43	0.42	0.11	ug/L		06/24/20 20:06	1
HMX	**7.3**	**M**	0.22	0.21	0.093	ug/L		06/24/20 20:06	1
MNX	**0.36**	**J M J1**	2.1	0.42	0.16	ug/L		06/24/20 20:06	1
MNX	**0.59**	**J J1**	2.1	0.42	0.16	ug/L		06/26/20 23:49	1
Nitrobenzene	0.21	U M	0.22	0.21	0.096	ug/L		06/24/20 20:06	1
RDX	**12**	**M**	0.22	0.21	0.054	ug/L		06/24/20 20:06	1
Tetryl	0.11	U M	0.12	0.11	0.034	ug/L		06/24/20 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*98*	*M*	*83 - 119*	*06/20/20 17:13*	*06/24/20 20:06*	*1*
1,2-Dinitrobenzene	*94*		*83 - 119*	*06/20/20 17:13*	*06/26/20 23:49*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ammonia	**1.9**		0.10	0.050	0.022	mg/L		06/23/20 12:09	1
Nitrogen, Total Kjeldahl	**3.0**		1.0	1.0	0.69	mg/L		06/24/20 18:49	1
Nitrate Nitrite as N	**0.82**		0.10	0.050	0.019	mg/L		06/22/20 20:28	1
Sulfide	**0.80**	**J**	4.0	1.9	0.79	mg/L		06/22/20 12:04	1
Sulfate	**700**	**D**	25	15	5.2	mg/L		07/01/20 00:00	5
Total Alkalinity as CaCO3	**580**		10	10	3.1	mg/L		06/18/20 18:20	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Dissolved Organic Carbon - Quad	**7.0**		1.0	1.0	0.35	mg/L		07/07/20 03:40	1

Client Sample ID: G0096-20A
Lab Sample ID: 280-137736-6

Date Collected: 06/16/20 09:40
Matrix: Water
Date Received: 06/17/20 09:20

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methane	**5.1**		0.0050	0.0020	0.00063	mg/L		06/25/20 14:32	1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**13**	**M**	0.23	0.22	0.091	ug/L		06/24/20 20:29	1
1,3-Dinitrobenzene	0.11	U M	0.12	0.11	0.040	ug/L		06/24/20 20:29	1
2,4,6-Trinitrotoluene	**0.96**	**M**	0.12	0.11	0.049	ug/L		06/24/20 20:29	1
2,4-Dinitrotoluene	**0.047**	**J J1**	0.11	0.086	0.030	ug/L		06/24/20 20:29	1
2,4-Dinitrotoluene	**0.11**	**J1**	0.11	0.086	0.030	ug/L		06/27/20 00:24	1
2,6-Dinitrotoluene	0.086	U	0.11	0.086	0.043	ug/L		06/24/20 20:29	1
2-Amino-4,6-dinitrotoluene	**1.1**	**M**	0.12	0.11	0.055	ug/L		06/24/20 20:29	1
2-Nitrotoluene	0.22	U	0.23	0.22	0.092	ug/L		06/24/20 20:29	1
3-Nitrotoluene	0.43	U	0.43	0.43	0.21	ug/L		06/24/20 20:29	1
4-Amino-2,6-dinitrotoluene	**1.5**	**M**	0.16	0.13	0.062	ug/L		06/24/20 20:29	1
4-Nitrotoluene	0.43	U M	0.44	0.43	0.11	ug/L		06/24/20 20:29	1
HMX	**9.7**	**M**	0.23	0.22	0.095	ug/L		06/24/20 20:29	1
MNX	**1.6**	**J M**	2.2	0.43	0.17	ug/L		06/24/20 20:29	1
Nitrobenzene	0.22	U M	0.23	0.22	0.098	ug/L		06/24/20 20:29	1

Client Sample ID: G0096-20A

Date Collected: 06/16/20 09:40
Date Received: 06/17/20 09:20

Lab Sample ID: 280-137736-6

Matrix: Water

Method: 8330A - Nitroaromatics and Nitramines (HPLC) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Tetryl	0.11	U M	0.12	0.11	0.034	ug/L		06/24/20 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*93*	*M*	*83 - 119*	*06/20/20 17:13*	*06/24/20 20:29*	*1*

Method: 8330A - Nitroaromatics and Nitramines (HPLC) - DL

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
RDX	**36**	**D M**	2.3	2.2	0.56	ug/L		06/26/20 18:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*98*	*D*	*83 - 119*	*06/20/20 17:13*	*06/26/20 18:44*	*10*
1,2-Dinitrobenzene	*83*	*M*	*83 - 119*	*06/20/20 17:13*	*06/27/20 00:59*	*10*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ammonia	**0.19**		0.10	0.050	0.022	mg/L		06/23/20 12:23	1
Nitrogen, Total Kjeldahl	1.0	U	1.0	1.0	0.69	mg/L		06/24/20 18:50	1
Nitrate Nitrite as N	**25**		2.0	1.0	0.38	mg/L		06/22/20 20:30	20
Sulfide	1.9	U	4.0	1.9	0.79	mg/L		06/22/20 12:04	1
Sulfate	**85**		5.0	3.0	1.0	mg/L		07/01/20 16:54	1
Total Alkalinity as CaCO3	**280**		10	10	3.1	mg/L		06/19/20 14:44	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Dissolved Organic Carbon - Quad	**4.4**		1.0	1.0	0.35	mg/L		07/07/20 04:02	1

Client Sample ID: G0296-20A

Date Collected: 06/16/20 08:00
Date Received: 06/17/20 09:20

Lab Sample ID: 280-137736-7

Matrix: Water

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methane	**4.7**		0.0050	0.0020	0.00063	mg/L		06/25/20 14:45	1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**13**	**M**	0.22	0.21	0.089	ug/L		06/24/20 20:52	1
1,3-Dinitrobenzene	0.11	U M	0.12	0.11	0.039	ug/L		06/24/20 20:52	1
2,4,6-Trinitrotoluene	**1.0**		0.12	0.11	0.048	ug/L		06/24/20 20:52	1
2,4-Dinitrotoluene	**0.10**	**J**	0.11	0.085	0.029	ug/L		06/24/20 20:52	1
2,6-Dinitrotoluene	0.085	U	0.11	0.085	0.043	ug/L		06/24/20 20:52	1
2-Amino-4,6-dinitrotoluene	**1.1**		0.12	0.11	0.054	ug/L		06/24/20 20:52	1
2-Nitrotoluene	0.21	U M	0.22	0.21	0.091	ug/L		06/24/20 20:52	1
3-Nitrotoluene	0.43	U	0.43	0.43	0.21	ug/L		06/24/20 20:52	1
4-Amino-2,6-dinitrotoluene	**1.6**		0.16	0.13	0.061	ug/L		06/24/20 20:52	1
4-Nitrotoluene	0.43	U	0.44	0.43	0.11	ug/L		06/24/20 20:52	1
HMX	**9.7**	**M**	0.22	0.21	0.093	ug/L		06/24/20 20:52	1
MNX	**1.5**	**J M**	2.1	0.43	0.16	ug/L		06/24/20 20:52	1
Nitrobenzene	0.21	U M	0.22	0.21	0.097	ug/L		06/24/20 20:52	1
Tetryl	0.11	U M	0.12	0.11	0.034	ug/L		06/24/20 20:52	1

Client Sample ID: G0296-20A
Lab Sample ID: 280-137736-7
Date Collected: 06/16/20 08:00
Matrix: Water
Date Received: 06/17/20 09:20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*98*	*M*	*83 - 119*	*06/20/20 17:13*	*06/24/20 20:52*	*1*
1,2-Dinitrobenzene	*102*		*83 - 119*	*06/20/20 17:13*	*06/27/20 02:44*	*1*

Method: 8330A - Nitroaromatics and Nitramines (HPLC) - DL

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
RDX	**36**	**D M**	2.2	2.1	0.55	ug/L		06/26/20 19:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*114*	*D*	*83 - 119*	*06/20/20 17:13*	*06/26/20 19:07*	*10*
1,2-Dinitrobenzene	*82*	*Q M D*	*83 - 119*	*06/20/20 17:13*	*06/27/20 03:19*	*10*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ammonia	**0.19**		0.10	0.050	0.022	mg/L		06/23/20 12:25	1
Nitrogen, Total Kjeldahl	1.0	U	1.0	1.0	0.69	mg/L		06/24/20 18:51	1
Nitrate Nitrite as N	**26**		2.0	1.0	0.38	mg/L		06/22/20 20:32	20
Sulfide	**0.80**	**J**	4.0	1.9	0.79	mg/L		06/22/20 12:04	1
Sulfate	**84**		5.0	3.0	1.0	mg/L		07/01/20 00:16	1
Total Alkalinity as CaCO3	**280**		10	10	3.1	mg/L		06/18/20 18:26	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Dissolved Organic Carbon - Quad	**4.2**		1.0	1.0	0.35	mg/L		07/07/20 05:19	1

Client Sample ID: G0092-20A
Lab Sample ID: 280-137736-8
Date Collected: 06/16/20 10:40
Matrix: Water
Date Received: 06/17/20 09:20

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methane	**0.018**		0.0050	0.0020	0.00063	mg/L		06/25/20 14:57	1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.21	U	0.22	0.21	0.088	ug/L		06/24/20 22:01	1
1,3-Dinitrobenzene	0.11	U	0.12	0.11	0.039	ug/L		06/24/20 22:01	1
2,4,6-Trinitrotoluene	0.11	U	0.12	0.11	0.047	ug/L		06/24/20 22:01	1
2,4-Dinitrotoluene	0.084	U	0.11	0.084	0.029	ug/L		06/24/20 22:01	1
2,6-Dinitrotoluene	0.084	U	0.11	0.084	0.042	ug/L		06/24/20 22:01	1
2-Amino-4,6-dinitrotoluene	0.11	U	0.12	0.11	0.053	ug/L		06/24/20 22:01	1
2-Nitrotoluene	0.21	U	0.22	0.21	0.090	ug/L		06/24/20 22:01	1
3-Nitrotoluene	0.42	U M	0.42	0.42	0.21	ug/L		06/24/20 22:01	1
4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.061	ug/L		06/24/20 22:01	1
4-Nitrotoluene	0.42	U M	0.43	0.42	0.11	ug/L		06/24/20 22:01	1
HMX	0.21	U	0.22	0.21	0.092	ug/L		06/24/20 22:01	1
MNX	0.42	U	2.1	0.42	0.16	ug/L		06/24/20 22:01	1
Nitrobenzene	0.21	U	0.22	0.21	0.096	ug/L		06/27/20 03:54	1
RDX	0.21	U	0.22	0.21	0.054	ug/L		06/24/20 22:01	1
Tetryl	0.11	U	0.12	0.11	0.033	ug/L		06/24/20 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*98*	*M*	*83 - 119*	*06/20/20 17:13*	*06/24/20 22:01*	*1*

Client Sample ID: G0092-20A
Lab Sample ID: 280-137736-8

Date Collected: 06/16/20 10:40
Matrix: Water
Date Received: 06/17/20 09:20

Method: 8330A - Nitroaromatics and Nitramines (HPLC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	*96*		*83 - 119*	*06/20/20 17:13*	*06/27/20 03:54*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ammonia	**0.031**	**J**	0.10	0.050	0.022	mg/L		06/23/20 12:33	1
Nitrogen, Total Kjeldahl	1.0	U	1.0	1.0	0.69	mg/L		06/24/20 18:52	1
Nitrate Nitrite as N	**0.18**		0.10	0.050	0.019	mg/L		06/22/20 20:34	1
Sulfide	**0.80**	**J**	4.0	1.9	0.79	mg/L		06/22/20 12:04	1
Sulfate	**330**	**D**	25	15	5.2	mg/L		07/01/20 00:33	5
Total Alkalinity as CaCO3	**350**		10	10	3.1	mg/L		06/18/20 18:33	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Dissolved Organic Carbon - Quad	**2.9**		1.0	1.0	0.35	mg/L		07/07/20 05:42	1

Client Sample ID: PZ019-20A
Lab Sample ID: 280-137736-9

Date Collected: 06/16/20 12:00
Matrix: Water
Date Received: 06/17/20 09:20

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methane	0.0020	U	0.0050	0.0020	0.00063	mg/L		06/25/20 13:06	1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.21	U	0.22	0.21	0.088	ug/L		06/24/20 22:24	1
1,3-Dinitrobenzene	0.11	U	0.12	0.11	0.039	ug/L		06/24/20 22:24	1
2,4,6-Trinitrotoluene	0.11	U	0.12	0.11	0.047	ug/L		06/24/20 22:24	1
2,4-Dinitrotoluene	0.084	U	0.11	0.084	0.029	ug/L		06/24/20 22:24	1
2,6-Dinitrotoluene	0.084	U	0.11	0.084	0.042	ug/L		06/24/20 22:24	1
2-Amino-4,6-dinitrotoluene	0.11	U	0.12	0.11	0.053	ug/L		06/24/20 22:24	1
2-Nitrotoluene	0.21	U	0.22	0.21	0.090	ug/L		06/24/20 22:24	1
3-Nitrotoluene	0.42	U M	0.42	0.42	0.20	ug/L		06/24/20 22:24	1
4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.061	ug/L		06/24/20 22:24	1
4-Nitrotoluene	0.42	U	0.43	0.42	0.11	ug/L		06/24/20 22:24	1
HMX	0.21	U	0.22	0.21	0.092	ug/L		06/24/20 22:24	1
MNX	0.42	U M	2.1	0.42	0.16	ug/L		06/24/20 22:24	1
Nitrobenzene	0.21	U M	0.22	0.21	0.096	ug/L		06/24/20 22:24	1
RDX	0.21	U	0.22	0.21	0.054	ug/L		06/24/20 22:24	1
Tetryl	0.11	U	0.12	0.11	0.033	ug/L		06/24/20 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	*99*	*M*	*83 - 119*	*06/20/20 17:13*	*06/24/20 22:24*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ammonia	0.050	U	0.10	0.050	0.022	mg/L		06/23/20 12:27	1
Nitrogen, Total Kjeldahl	1.0	U J1	1.0	1.0	0.69	mg/L		06/24/20 18:39	1
Nitrate Nitrite as N	**34**	**J1**	0.50	0.25	0.095	mg/L		06/22/20 20:36	5
Sulfide	1.9	U	4.0	1.9	0.79	mg/L		06/22/20 12:04	1
Sulfate	**58**		5.0	3.0	1.0	mg/L		07/01/20 00:49	1

Client Sample ID: PZ019-20A
Lab Sample ID: 280-137736-9
Date Collected: 06/16/20 12:00
Matrix: Water
Date Received: 06/17/20 09:20

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3	**75**		10	10	3.1	mg/L		06/18/20 18:38	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Dissolved Organic Carbon - Quad	**2.0**		1.0	1.0	0.35	mg/L		07/07/20 06:04	1

Client Sample ID: PZ020-20A
Lab Sample ID: 280-137736-10
Date Collected: 06/15/20 15:40
Matrix: Water
Date Received: 06/17/20 09:20

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methane	0.0020	U	0.0050	0.0020	0.00063	mg/L		06/25/20 15:21	1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**1.5**	**M**	0.22	0.21	0.088	ug/L		06/25/20 08:22	1
1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.038	ug/L		06/25/20 08:22	1
2,4,6-Trinitrotoluene	**2.2**		0.11	0.10	0.047	ug/L		06/25/20 08:22	1
2,4-Dinitrotoluene	0.083	U	0.10	0.083	0.029	ug/L		06/25/20 08:22	1
2,6-Dinitrotoluene	0.083	U	0.10	0.083	0.042	ug/L		06/25/20 08:22	1
2-Amino-4,6-dinitrotoluene	0.10	U M Q	0.11	0.10	0.053	ug/L		06/25/20 08:22	1
2-Nitrotoluene	0.21	U Q	0.22	0.21	0.089	ug/L		06/25/20 08:22	1
3-Nitrotoluene	0.42	U M Q	0.42	0.42	0.20	ug/L		06/25/20 08:22	1
4-Amino-2,6-dinitrotoluene	0.12	U M Q	0.16	0.12	0.060	ug/L		06/25/20 08:22	1
4-Nitrotoluene	0.42	U Q	0.43	0.42	0.10	ug/L		06/25/20 08:22	1
HMX	0.21	U	0.22	0.21	0.091	ug/L		06/25/20 08:22	1
MNX	0.42	U M	2.1	0.42	0.16	ug/L		06/25/20 08:22	1
Nitrobenzene	0.21	U	0.22	0.21	0.095	ug/L		06/27/20 15:36	1
RDX	**0.58**	**M**	0.22	0.21	0.054	ug/L		06/25/20 08:22	1
Tetryl	0.10	U M	0.11	0.10	0.033	ug/L		06/25/20 08:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*97*	*M*	*83 - 119*	*06/19/20 15:47*	*06/25/20 08:22*	*1*
1,2-Dinitrobenzene	*96*	*M*	*83 - 119*	*06/19/20 15:47*	*06/27/20 15:36*	*1*

Method: 8330A - Nitroaromatics and Nitramines (HPLC) - RE

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**1.5**	**M H**	0.23	0.22	0.090	ug/L		07/01/20 02:46	1
1,3-Dinitrobenzene	0.11	U M H	0.12	0.11	0.040	ug/L		07/01/20 02:46	1
2,4,6-Trinitrotoluene	**2.3**	**M H**	0.12	0.11	0.048	ug/L		07/01/20 02:46	1
2,4-Dinitrotoluene	0.086	U M H	0.11	0.086	0.029	ug/L		07/01/20 02:46	1
2,6-Dinitrotoluene	0.086	U H Q	0.11	0.086	0.043	ug/L		07/01/20 02:46	1
2-Amino-4,6-dinitrotoluene	**1.7**	**M H**	0.12	0.11	0.055	ug/L		07/01/20 02:46	1
2-Nitrotoluene	0.22	U M H	0.23	0.22	0.092	ug/L		07/01/20 02:46	1
3-Nitrotoluene	0.43	U M H	0.43	0.43	0.21	ug/L		07/01/20 02:46	1
4-Amino-2,6-dinitrotoluene	**1.8**	**M H**	0.16	0.13	0.062	ug/L		07/01/20 02:46	1
4-Nitrotoluene	0.43	U H	0.44	0.43	0.11	ug/L		07/01/20 02:46	1
HMX	0.22	U H	0.23	0.22	0.094	ug/L		07/01/20 02:46	1
MNX	0.43	U M H	2.2	0.43	0.17	ug/L		07/01/20 02:46	1
Nitrobenzene	0.22	U H	0.23	0.22	0.098	ug/L		07/02/20 02:26	1

Client Sample ID: PZ020-20A
Lab Sample ID: 280-137736-10
Date Collected: 06/15/20 15:40
Matrix: Water
Date Received: 06/17/20 09:20

Method: 8330A - Nitroaromatics and Nitramines (HPLC) - RE (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
RDX	**0.51**	**M H**	0.23	0.22	0.055	ug/L		07/01/20 02:46	1
Tetryl	0.11	U M H	0.12	0.11	0.034	ug/L		07/01/20 02:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*103*	*M*	*83 - 119*	*06/30/20 12:07*	*07/01/20 02:46*	*1*
1,2-Dinitrobenzene	*99*	*M*	*83 - 119*	*06/30/20 12:07*	*07/02/20 02:26*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ammonia	**0.032**	**J**	0.10	0.050	0.022	mg/L		06/23/20 12:35	1
Nitrogen, Total Kjeldahl	1.0	U	1.0	1.0	0.69	mg/L		06/24/20 18:54	1
Nitrate Nitrite as N	**38**		2.0	1.0	0.38	mg/L		06/22/20 20:42	20
Sulfide	1.9	U	4.0	1.9	0.79	mg/L		06/19/20 17:04	1
Sulfate	**190**		5.0	3.0	1.0	mg/L		07/01/20 01:55	1
Total Alkalinity as CaCO3	**310**		10	10	3.1	mg/L		06/18/20 18:44	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Dissolved Organic Carbon - Quad	**6.4**		1.0	1.0	0.35	mg/L		07/07/20 07:13	1

Client Sample ID: G0087-20A
Lab Sample ID: 280-137736-11
Date Collected: 06/15/20 16:40
Matrix: Water
Date Received: 06/17/20 09:20

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methane	0.0020	U	0.0050	0.0020	0.00063	mg/L		06/25/20 15:46	1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.21	U	0.23	0.21	0.090	ug/L		06/25/20 08:45	1
1,3-Dinitrobenzene	0.11	U	0.12	0.11	0.040	ug/L		06/25/20 08:45	1
2,4,6-Trinitrotoluene	0.11	U	0.12	0.11	0.048	ug/L		06/25/20 08:45	1
2,4-Dinitrotoluene	0.086	U	0.11	0.086	0.029	ug/L		06/25/20 08:45	1
2,6-Dinitrotoluene	0.086	U	0.11	0.086	0.043	ug/L		06/25/20 08:45	1
2-Amino-4,6-dinitrotoluene	0.11	U Q	0.12	0.11	0.054	ug/L		06/25/20 08:45	1
2-Nitrotoluene	0.21	U Q	0.23	0.21	0.092	ug/L		06/25/20 08:45	1
3-Nitrotoluene	0.43	U M Q	0.43	0.43	0.21	ug/L		06/25/20 08:45	1
4-Amino-2,6-dinitrotoluene	0.13	U Q	0.16	0.13	0.062	ug/L		06/25/20 08:45	1
4-Nitrotoluene	0.43	U M Q	0.44	0.43	0.11	ug/L		06/25/20 08:45	1
HMX	**0.37**	**M**	0.23	0.21	0.094	ug/L		06/25/20 08:45	1
MNX	0.43	U	2.1	0.43	0.17	ug/L		06/25/20 08:45	1
Nitrobenzene	0.21	U	0.23	0.21	0.098	ug/L		06/25/20 08:45	1
RDX	**0.15**	**J M**	0.23	0.21	0.055	ug/L		06/25/20 08:45	1
Tetryl	0.11	U	0.12	0.11	0.034	ug/L		06/25/20 08:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*101*	*M*	*83 - 119*	*06/19/20 15:47*	*06/25/20 08:45*	*1*
1,2-Dinitrobenzene	*96*	*M*	*83 - 119*	*06/19/20 15:47*	*06/27/20 16:10*	*1*

Client Sample ID: G0087-20A
Lab Sample ID: 280-137736-11
Date Collected: 06/15/20 16:40
Matrix: Water
Date Received: 06/17/20 09:20

Method: 8330A - Nitroaromatics and Nitramines (HPLC) - RE

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.21	U H	0.22	0.21	0.090	ug/L		07/01/20 03:09	1
1,3-Dinitrobenzene	0.11	U H	0.12	0.11	0.039	ug/L		07/01/20 03:09	1
2,4,6-Trinitrotoluene	0.11	U H	0.12	0.11	0.048	ug/L		07/01/20 03:09	1
2,4-Dinitrotoluene	0.085	U H	0.11	0.085	0.029	ug/L		07/01/20 03:09	1
2,6-Dinitrotoluene	0.085	U H Q	0.11	0.085	0.043	ug/L		07/01/20 03:09	1
2-Amino-4,6-dinitrotoluene	0.11	U H	0.12	0.11	0.054	ug/L		07/01/20 03:09	1
2-Nitrotoluene	0.21	U H	0.22	0.21	0.091	ug/L		07/01/20 03:09	1
3-Nitrotoluene	0.43	U H	0.43	0.43	0.21	ug/L		07/01/20 03:09	1
4-Amino-2,6-dinitrotoluene	0.13	U H	0.16	0.13	0.062	ug/L		07/01/20 03:09	1
4-Nitrotoluene	0.43	U M H	0.44	0.43	0.11	ug/L		07/01/20 03:09	1
HMX	**0.39**	**M H**	0.22	0.21	0.093	ug/L		07/01/20 03:09	1
MNX	0.43	U H	2.1	0.43	0.16	ug/L		07/01/20 03:09	1
Nitrobenzene	0.21	U H	0.22	0.21	0.097	ug/L		07/01/20 03:09	1
RDX	**0.16**	**J M H**	0.22	0.21	0.055	ug/L		07/01/20 03:09	1
Tetryl	0.11	U H	0.12	0.11	0.034	ug/L		07/01/20 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*106*	*M*	*83 - 119*	*06/30/20 12:07*	*07/01/20 03:09*	*1*
1,2-Dinitrobenzene	*101*		*83 - 119*	*06/30/20 12:07*	*07/02/20 03:01*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ammonia	**0.032**	**J**	0.10	0.050	0.022	mg/L		06/23/20 12:37	1
Nitrogen, Total Kjeldahl	**1.1**		1.0	1.0	0.69	mg/L		06/24/20 18:59	1
Nitrate Nitrite as N	**2.7**		0.10	0.050	0.019	mg/L		06/22/20 20:44	1
Sulfide	1.9	U	4.0	1.9	0.79	mg/L		06/19/20 17:04	1
Sulfate	**110**		5.0	3.0	1.0	mg/L		07/01/20 02:11	1
Total Alkalinity as CaCO3	**310**		10	10	3.1	mg/L		06/18/20 18:51	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Dissolved Organic Carbon - Quad	**2.9**		1.0	1.0	0.35	mg/L		07/07/20 07:35	1

Client Sample ID: G0088-20A
Lab Sample ID: 280-137736-12
Date Collected: 06/15/20 13:40
Matrix: Water
Date Received: 06/17/20 09:20

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methane	**0.0029**	**J**	0.0050	0.0020	0.00063	mg/L		06/25/20 15:58	1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**4.7**		0.22	0.21	0.088	ug/L		06/25/20 09:08	1
1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.039	ug/L		06/25/20 09:08	1
2,4,6-Trinitrotoluene	**0.63**	**J1**	0.11	0.10	0.047	ug/L		06/25/20 09:08	1
2,4,6-Trinitrotoluene	**0.41**	**J1 M**	0.11	0.10	0.047	ug/L		06/27/20 16:45	1
2,4-Dinitrotoluene	0.084	U	0.10	0.084	0.029	ug/L		06/25/20 09:08	1
2,6-Dinitrotoluene	0.084	U	0.10	0.084	0.042	ug/L		06/25/20 09:08	1
2-Amino-4,6-dinitrotoluene	**0.44**	**Q**	0.11	0.10	0.053	ug/L		06/25/20 09:08	1
2-Nitrotoluene	0.21	U Q	0.22	0.21	0.089	ug/L		06/25/20 09:08	1

Client Sample ID: G0088-20A
Lab Sample ID: 280-137736-12

Date Collected: 06/15/20 13:40
Matrix: Water

Date Received: 06/17/20 09:20

Method: 8330A - Nitroaromatics and Nitramines (HPLC) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
3-Nitrotoluene	0.42	U Q	0.42	0.42	0.20	ug/L		06/25/20 09:08	1
4-Amino-2,6-dinitrotoluene	**0.44**	**Q**	0.16	0.13	0.060	ug/L		06/25/20 09:08	1
4-Nitrotoluene	0.42	U M Q	0.43	0.42	0.10	ug/L		06/25/20 09:08	1
HMX	0.21	U	0.22	0.21	0.091	ug/L		06/25/20 09:08	1
MNX	0.42	U M	2.1	0.42	0.16	ug/L		06/25/20 09:08	1
Nitrobenzene	0.21	U	0.22	0.21	0.095	ug/L		06/25/20 09:08	1
RDX	0.21	U	0.22	0.21	0.054	ug/L		06/25/20 09:08	1
Tetryl	0.10	U M	0.11	0.10	0.033	ug/L		06/25/20 09:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*88*		*83 - 119*	*06/19/20 15:47*	*06/25/20 09:08*	*1*
1,2-Dinitrobenzene	*87*		*83 - 119*	*06/19/20 15:47*	*06/27/20 16:45*	*1*

Method: 8330A - Nitroaromatics and Nitramines (HPLC) - RE

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**5.5**	**M H**	0.22	0.21	0.089	ug/L		07/01/20 03:32	1
1,3-Dinitrobenzene	0.11	U H	0.12	0.11	0.039	ug/L		07/01/20 03:32	1
2,4,6-Trinitrotoluene	**0.72**	**M H**	0.12	0.11	0.047	ug/L		07/01/20 03:32	1
2,4-Dinitrotoluene	0.084	U M H	0.11	0.084	0.029	ug/L		07/01/20 03:32	1
2,6-Dinitrotoluene	0.084	U M H Q	0.11	0.084	0.042	ug/L		07/01/20 03:32	1
2-Amino-4,6-dinitrotoluene	0.11	U H	0.12	0.11	0.054	ug/L		07/01/20 03:32	1
2-Nitrotoluene	0.21	U M H	0.22	0.21	0.090	ug/L		07/01/20 03:32	1
3-Nitrotoluene	0.42	U M H	0.42	0.42	0.21	ug/L		07/01/20 03:32	1
4-Amino-2,6-dinitrotoluene	0.13	U M H	0.16	0.13	0.061	ug/L		07/01/20 03:32	1
4-Nitrotoluene	0.42	U H	0.43	0.42	0.11	ug/L		07/02/20 03:36	1
HMX	0.21	U H	0.22	0.21	0.092	ug/L		07/01/20 03:32	1
MNX	0.42	U M H	2.1	0.42	0.16	ug/L		07/01/20 03:32	1
Nitrobenzene	0.21	U H	0.22	0.21	0.096	ug/L		07/01/20 03:32	1
RDX	0.21	U H	0.22	0.21	0.054	ug/L		07/01/20 03:32	1
Tetryl	0.11	U M H	0.12	0.11	0.034	ug/L		07/01/20 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*107*	*M*	*83 - 119*	*06/30/20 12:07*	*07/01/20 03:32*	*1*
1,2-Dinitrobenzene	*104*	*M*	*83 - 119*	*06/30/20 12:07*	*07/02/20 03:36*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ammonia	**0.088**	**J**	0.10	0.050	0.022	mg/L		06/23/20 12:39	1
Nitrogen, Total Kjeldahl	1.0	U	1.0	1.0	0.69	mg/L		06/24/20 19:00	1
Nitrate Nitrite as N	**1.2**		0.10	0.050	0.019	mg/L		06/22/20 20:46	1
Sulfide	**0.80**	**J**	4.0	1.9	0.79	mg/L		06/19/20 17:04	1
Sulfate	**190**	**D**	25	15	5.2	mg/L		07/01/20 17:26	5
Total Alkalinity as CaCO3	**280**		10	10	3.1	mg/L		06/18/20 19:08	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Dissolved Organic Carbon - Quad	**2.5**		1.0	1.0	0.35	mg/L		07/07/20 07:58	1

Client Sample ID: G0089-20A
Lab Sample ID: 280-137736-13

Date Collected: 06/15/20 15:20
Matrix: Water

Date Received: 06/17/20 09:20

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methane	**3.4**		0.0050	0.0020	0.00063	mg/L		06/25/20 16:10	1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**2.6**	**M**	0.22	0.21	0.088	ug/L		06/25/20 09:31	1
1,3-Dinitrobenzene	0.10	U M	0.12	0.10	0.039	ug/L		06/25/20 09:31	1
2,4,6-Trinitrotoluene	**1.7**		0.12	0.10	0.047	ug/L		06/25/20 09:31	1
2,4-Dinitrotoluene	0.084	U	0.10	0.084	0.029	ug/L		06/25/20 09:31	1
2,6-Dinitrotoluene	0.084	U	0.10	0.084	0.042	ug/L		06/25/20 09:31	1
2-Amino-4,6-dinitrotoluene	0.10	U M Q	0.12	0.10	0.053	ug/L		06/25/20 09:31	1
2-Nitrotoluene	0.21	U Q	0.22	0.21	0.090	ug/L		06/25/20 09:31	1
3-Nitrotoluene	0.42	U M Q	0.42	0.42	0.20	ug/L		06/25/20 09:31	1
4-Amino-2,6-dinitrotoluene	0.13	U M Q	0.16	0.13	0.061	ug/L		06/25/20 09:31	1
4-Nitrotoluene	0.42	U Q	0.43	0.42	0.10	ug/L		06/25/20 09:31	1
HMX	0.21	U	0.22	0.21	0.092	ug/L		06/25/20 09:31	1
MNX	0.42	U M	2.1	0.42	0.16	ug/L		06/25/20 09:31	1
Nitrobenzene	0.21	U M	0.22	0.21	0.096	ug/L		06/25/20 09:31	1
RDX	0.21	U	0.22	0.21	0.054	ug/L		06/25/20 09:31	1
Tetryl	0.10	U M	0.12	0.10	0.033	ug/L		06/25/20 09:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*88*	*M*	*83 - 119*	*06/19/20 15:47*	*06/25/20 09:31*	*1*
1,2-Dinitrobenzene	*89*		*83 - 119*	*06/19/20 15:47*	*06/27/20 17:20*	*1*

Method: 8330A - Nitroaromatics and Nitramines (HPLC) - RE

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**1.8**	**M H**	0.23	0.21	0.090	ug/L		07/01/20 03:54	1
1,3-Dinitrobenzene	0.11	U H	0.12	0.11	0.040	ug/L		07/01/20 03:54	1
2,4,6-Trinitrotoluene	**1.6**	**H**	0.12	0.11	0.048	ug/L		07/01/20 03:54	1
2,4-Dinitrotoluene	0.086	U H	0.11	0.086	0.029	ug/L		07/01/20 03:54	1
2,6-Dinitrotoluene	0.086	U H Q	0.11	0.086	0.043	ug/L		07/01/20 03:54	1
2-Amino-4,6-dinitrotoluene	0.11	U M H	0.12	0.11	0.054	ug/L		07/01/20 03:54	1
2-Nitrotoluene	0.21	U H	0.23	0.21	0.092	ug/L		07/01/20 03:54	1
3-Nitrotoluene	0.43	U H	0.43	0.43	0.21	ug/L		07/01/20 03:54	1
4-Amino-2,6-dinitrotoluene	0.13	U M H	0.16	0.13	0.062	ug/L		07/01/20 03:54	1
4-Nitrotoluene	0.43	U H	0.44	0.43	0.11	ug/L		07/01/20 03:54	1
HMX	0.21	U H	0.23	0.21	0.094	ug/L		07/01/20 03:54	1
MNX	0.43	U M H	2.1	0.43	0.17	ug/L		07/01/20 03:54	1
Nitrobenzene	0.21	U H	0.23	0.21	0.098	ug/L		07/02/20 04:11	1
RDX	0.21	U H	0.23	0.21	0.055	ug/L		07/01/20 03:54	1
Tetryl	0.11	U M H	0.12	0.11	0.034	ug/L		07/01/20 03:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*100*	*M*	*83 - 119*	*06/30/20 12:07*	*07/01/20 03:54*	*1*
1,2-Dinitrobenzene	*100*		*83 - 119*	*06/30/20 12:07*	*07/02/20 04:11*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ammonia	**0.16**		0.10	0.050	0.022	mg/L		06/23/20 12:41	1
Nitrogen, Total Kjeldahl	**1.4**		1.0	1.0	0.69	mg/L		06/24/20 19:09	1
Nitrate Nitrite as N	**0.88**		0.10	0.050	0.019	mg/L		06/22/20 21:00	1

Client Sample ID: G0089-20A

Lab Sample ID: 280-137736-13

Date Collected: 06/15/20 15:20

Matrix: Water

Date Received: 06/17/20 09:20

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide	**0.80**	**J**	4.0	1.9	0.79	mg/L		06/19/20 17:04	1
Sulfate	**110**		5.0	3.0	1.0	mg/L		07/01/20 03:17	1
Total Alkalinity as CaCO3	**330**		10	10	3.1	mg/L		06/18/20 19:14	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Dissolved Organic Carbon - Quad	**5.8**		1.0	1.0	0.35	mg/L		07/07/20 08:20	1

Client Sample ID: G0077-20A

Lab Sample ID: 280-137736-14

Date Collected: 06/15/20 13:20

Matrix: Water

Date Received: 06/17/20 09:20

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methane	0.0020	U	0.0050	0.0020	0.00063	mg/L		06/25/20 16:22	1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**1.9**	**Q**	0.22	0.21	0.089	ug/L		06/25/20 00:19	1
1,3-Dinitrobenzene	0.11	U Q M	0.12	0.11	0.039	ug/L		06/25/20 00:19	1
2,4,6-Trinitrotoluene	**3.3**	**Q**	0.12	0.11	0.047	ug/L		06/25/20 00:19	1
2,4-Dinitrotoluene	0.084	U Q	0.11	0.084	0.029	ug/L		06/25/20 00:19	1
2,6-Dinitrotoluene	0.084	U Q	0.11	0.084	0.042	ug/L		06/25/20 00:19	1
2-Amino-4,6-dinitrotoluene	**1.2**	**Q**	0.12	0.11	0.053	ug/L		06/25/20 00:19	1
2-Nitrotoluene	0.21	U Q	0.22	0.21	0.090	ug/L		06/25/20 00:19	1
3-Nitrotoluene	0.42	U Q	0.42	0.42	0.21	ug/L		06/25/20 00:19	1
4-Amino-2,6-dinitrotoluene	**1.1**	**Q**	0.16	0.13	0.061	ug/L		06/25/20 00:19	1
4-Nitrotoluene	0.42	U Q M	0.43	0.42	0.11	ug/L		06/25/20 00:19	1
HMX	0.21	U Q	0.22	0.21	0.092	ug/L		06/25/20 00:19	1
MNX	0.42	U M	2.1	0.42	0.16	ug/L		06/25/20 00:19	1
Nitrobenzene	0.21	U Q	0.22	0.21	0.096	ug/L		06/25/20 00:19	1
RDX	**0.46**	**Q**	0.22	0.21	0.054	ug/L		06/25/20 00:19	1
Tetryl	0.11	U Q M	0.12	0.11	0.034	ug/L		06/25/20 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*77*	*Q*	*83 - 119*	*06/20/20 17:13*	*06/25/20 00:19*	*1*
1,2-Dinitrobenzene	*79*	*Q*	*83 - 119*	*06/20/20 17:13*	*06/27/20 04:29*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ammonia	**0.052**	**J**	0.10	0.050	0.022	mg/L		06/23/20 12:55	1
Nitrogen, Total Kjeldahl	1.0	U J1	1.0	1.0	0.69	mg/L		06/24/20 19:04	1
Nitrate Nitrite as N	**13**		1.0	0.50	0.19	mg/L		06/22/20 21:02	10
Sulfide	**0.80**	**J**	4.0	1.9	0.79	mg/L		06/19/20 12:54	1
Sulfate	**99**		5.0	3.0	1.0	mg/L		07/01/20 03:33	1
Total Alkalinity as CaCO3	**260**		10	10	3.1	mg/L		06/18/20 19:21	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Dissolved Organic Carbon - Quad	**3.6**		1.0	1.0	0.35	mg/L		07/07/20 08:42	1

Client Sample ID: G0078-20A
Lab Sample ID: 280-137736-15
Date Collected: 06/15/20 14:30
Matrix: Water
Date Received: 06/17/20 09:20

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methane	**0.13**		0.0050	0.0020	0.00063	mg/L		06/25/20 16:35	1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.21	U Q	0.22	0.21	0.089	ug/L		06/25/20 00:42	1
1,3-Dinitrobenzene	0.11	U Q	0.12	0.11	0.039	ug/L		06/25/20 00:42	1
2,4,6-Trinitrotoluene	0.11	U Q	0.12	0.11	0.047	ug/L		06/25/20 00:42	1
2,4-Dinitrotoluene	0.084	U Q	0.11	0.084	0.029	ug/L		06/25/20 00:42	1
2,6-Dinitrotoluene	0.084	U Q	0.11	0.084	0.042	ug/L		06/25/20 00:42	1
2-Amino-4,6-dinitrotoluene	0.11	U Q	0.12	0.11	0.053	ug/L		06/25/20 00:42	1
2-Nitrotoluene	0.21	U Q	0.22	0.21	0.090	ug/L		06/25/20 00:42	1
3-Nitrotoluene	0.42	U M Q	0.42	0.42	0.21	ug/L		06/25/20 00:42	1
4-Amino-2,6-dinitrotoluene	0.13	U Q	0.16	0.13	0.061	ug/L		06/25/20 00:42	1
4-Nitrotoluene	0.42	U Q	0.43	0.42	0.11	ug/L		06/25/20 00:42	1
HMX	0.21	U M Q	0.22	0.21	0.092	ug/L		06/25/20 00:42	1
MNX	0.42	U	2.1	0.42	0.16	ug/L		06/25/20 00:42	1
Nitrobenzene	0.21	U Q	0.22	0.21	0.096	ug/L		06/25/20 00:42	1
RDX	0.21	U Q	0.22	0.21	0.054	ug/L		06/25/20 00:42	1
Tetryl	0.11	U Q	0.12	0.11	0.034	ug/L		06/25/20 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*81*	*M Q*	*83 - 119*	*06/20/20 17:13*	*06/25/20 00:42*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ammonia	**0.46**		0.10	0.050	0.022	mg/L		06/23/20 12:57	1
Nitrogen, Total Kjeldahl	1.0	U	1.0	1.0	0.69	mg/L		06/24/20 19:10	1
Nitrate Nitrite as N	0.050	U	0.10	0.050	0.019	mg/L		06/22/20 21:04	1
Sulfide	1.9	U	4.0	1.9	0.79	mg/L		06/19/20 17:04	1
Sulfate	**250**	**D**	25	15	5.2	mg/L		07/01/20 17:43	5
Total Alkalinity as CaCO3	**340**		10	10	3.1	mg/L		06/18/20 19:27	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Dissolved Organic Carbon - Quad	**3.8**		1.0	1.0	0.35	mg/L		07/03/20 13:51	1

Client Sample ID: G0093-20A
Lab Sample ID: 280-137736-16
Date Collected: 06/16/20 08:25
Matrix: Water
Date Received: 06/17/20 09:20

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methane	**5.8**		0.0050	0.0020	0.00063	mg/L		06/25/20 16:47	1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**0.45**	**Q M**	0.23	0.21	0.090	ug/L		06/26/20 19:30	1
1,3-Dinitrobenzene	0.11	U Q	0.12	0.11	0.040	ug/L		06/26/20 19:30	1
2,4,6-Trinitrotoluene	0.11	U Q M	0.12	0.11	0.048	ug/L		06/26/20 19:30	1
2,4-Dinitrotoluene	0.086	U Q	0.11	0.086	0.029	ug/L		06/27/20 05:04	1
2,6-Dinitrotoluene	0.086	U Q	0.11	0.086	0.043	ug/L		06/26/20 19:30	1

Client Sample ID: G0093-20A

Lab Sample ID: 280-137736-16

Date Collected: 06/16/20 08:25

Matrix: Water

Date Received: 06/17/20 09:20

Method: 8330A - Nitroaromatics and Nitramines (HPLC) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Amino-4,6-dinitrotoluene	**1.8**	**Q J1**	0.12	0.11	0.054	ug/L		06/26/20 19:30	1
2-Amino-4,6-dinitrotoluene	**0.51**	**Q M J1**	0.12	0.11	0.054	ug/L		06/27/20 05:04	1
2-Nitrotoluene	0.21	U Q	0.23	0.21	0.092	ug/L		06/26/20 19:30	1
3-Nitrotoluene	0.43	U Q	0.43	0.43	0.21	ug/L		06/26/20 19:30	1
4-Amino-2,6-dinitrotoluene	0.13	U Q	0.16	0.13	0.062	ug/L		06/26/20 19:30	1
4-Nitrotoluene	0.43	U Q M	0.44	0.43	0.11	ug/L		06/26/20 19:30	1
HMX	0.21	U Q	0.23	0.21	0.094	ug/L		06/26/20 19:30	1
MNX	0.43	U	2.1	0.43	0.17	ug/L		06/27/20 05:04	1
Nitrobenzene	0.21	U Q	0.23	0.21	0.098	ug/L		06/27/20 05:04	1
RDX	0.21	U M Q	0.23	0.21	0.055	ug/L		06/27/20 05:04	1
Tetryl	0.11	U Q M	0.12	0.11	0.034	ug/L		06/26/20 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*69*	*Q M*	*83 - 119*	*06/20/20 17:13*	*06/26/20 19:30*	*1*
1,2-Dinitrobenzene	*75*	*M Q*	*83 - 119*	*06/20/20 17:13*	*06/27/20 05:04*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ammonia	**1.2**		0.10	0.050	0.022	mg/L		06/23/20 12:59	1
Nitrogen, Total Kjeldahl	**1.5**		1.0	1.0	0.69	mg/L		06/24/20 19:11	1
Nitrate Nitrite as N	**0.30**		0.10	0.050	0.019	mg/L		06/22/20 21:06	1
Sulfide	1.9	U	4.0	1.9	0.79	mg/L		06/22/20 12:04	1
Sulfate	**140**		5.0	3.0	1.0	mg/L		07/01/20 04:06	1
Total Alkalinity as CaCO3	**350**		10	10	3.1	mg/L		06/18/20 19:33	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Dissolved Organic Carbon - Quad	**5.4**		1.0	1.0	0.35	mg/L		07/03/20 14:13	1

Client Sample ID: G0086-20A

Lab Sample ID: 280-137736-17

Date Collected: 06/16/20 08:15

Matrix: Water

Date Received: 06/17/20 09:20

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methane	**0.022**		0.0050	0.0020	0.00063	mg/L		06/25/20 16:59	1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	**9.4**	**Q**	0.22	0.21	0.088	ug/L		06/25/20 01:28	1
1,3-Dinitrobenzene	0.10	U Q M	0.12	0.10	0.039	ug/L		06/25/20 01:28	1
2,4,6-Trinitrotoluene	**3.6**	**Q**	0.12	0.10	0.047	ug/L		06/25/20 01:28	1
2,4-Dinitrotoluene	0.084	U Q	0.10	0.084	0.029	ug/L		06/25/20 01:28	1
2,6-Dinitrotoluene	0.084	U Q	0.10	0.084	0.042	ug/L		06/25/20 01:28	1
2-Amino-4,6-dinitrotoluene	**1.6**	**Q**	0.12	0.10	0.053	ug/L		06/25/20 01:28	1
2-Nitrotoluene	0.21	U Q	0.22	0.21	0.090	ug/L		06/25/20 01:28	1
3-Nitrotoluene	0.42	U Q	0.42	0.42	0.20	ug/L		06/25/20 01:28	1
4-Amino-2,6-dinitrotoluene	**1.1**	**Q**	0.16	0.13	0.061	ug/L		06/25/20 01:28	1
4-Nitrotoluene	0.42	U Q M	0.43	0.42	0.10	ug/L		06/25/20 01:28	1
HMX	0.21	U Q M	0.22	0.21	0.092	ug/L		06/25/20 01:28	1
MNX	0.42	U M	2.1	0.42	0.16	ug/L		06/25/20 01:28	1

Client Sample ID: G0086-20A
Lab Sample ID: 280-137736-17

Date Collected: 06/16/20 08:15
Matrix: Water

Date Received: 06/17/20 09:20

Method: 8330A - Nitroaromatics and Nitramines (HPLC) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrobenzene	0.21	U Q	0.22	0.21	0.096	ug/L		06/25/20 01:28	1
RDX	**0.21**	**J Q**	0.22	0.21	0.054	ug/L		06/25/20 01:28	1
Tetryl	0.10	U Q M	0.12	0.10	0.033	ug/L		06/25/20 01:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*81*	*Q*	*83 - 119*	*06/20/20 17:13*	*06/25/20 01:28*	*1*
1,2-Dinitrobenzene	*78*	*Q*	*83 - 119*	*06/20/20 17:13*	*06/27/20 05:39*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ammonia	**0.025**	**J**	0.10	0.050	0.022	mg/L		06/23/20 13:01	1
Nitrogen, Total Kjeldahl	1.0	U	1.0	1.0	0.69	mg/L		06/24/20 19:12	1
Nitrate Nitrite as N	**6.5**		0.10	0.050	0.019	mg/L		06/22/20 21:08	1
Sulfide	1.9	U	4.0	1.9	0.79	mg/L		06/22/20 12:04	1
Sulfate	**130**		5.0	3.0	1.0	mg/L		07/01/20 04:23	1
Total Alkalinity as CaCO3	**280**		10	10	3.1	mg/L		06/18/20 19:39	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Dissolved Organic Carbon - Quad	**3.6**		1.0	1.0	0.35	mg/L		07/03/20 14:36	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	LOQ	DL	Units
1,1,1-Trichloroethane	1.0	0.16	ug/L
1,1,2,2-Tetrachloroethane	1.0	0.21	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	0.18	ug/L
1,1,2-Trichloroethane	1.0	0.27	ug/L
1,1-Dichloroethane	1.0	0.22	ug/L
1,1-Dichloroethene	1.0	0.23	ug/L
1,2,3-Trichlorobenzene	1.0	0.21	ug/L
1,2,4-Trichlorobenzene	1.0	0.21	ug/L
1,2-Dibromo-3-Chloropropane	5.0	0.47	ug/L
1,2-Dichlorobenzene	1.0	0.15	ug/L
1,2-Dichloroethane	1.0	0.13	ug/L
1,2-Dichloropropane	1.0	0.18	ug/L
1,3-Dichlorobenzene	1.0	0.13	ug/L
1,4-Dichlorobenzene	1.0	0.16	ug/L
2-Butanone (MEK)	6.0	2.0	ug/L
2-Hexanone	5.0	1.7	ug/L
4-Methyl-2-pentanone (MIBK)	5.0	0.98	ug/L
Acetone	10	1.9	ug/L
Benzene	1.0	0.16	ug/L
Bromochloromethane	1.0	0.10	ug/L
Bromodichloromethane	1.0	0.17	ug/L
Bromoform	1.0	0.46	ug/L
Bromomethane	2.0	0.21	ug/L
Carbon disulfide	2.0	0.17	ug/L
Carbon tetrachloride	2.0	0.19	ug/L
Chlorobenzene	1.0	0.17	ug/L
Chloroethane	2.0	0.41	ug/L
Chloroform	1.0	0.16	ug/L
Chloromethane	2.0	0.30	ug/L
cis-1,2-Dichloroethene	1.0	0.15	ug/L
cis-1,3-Dichloropropene	1.0	0.16	ug/L
Cyclohexane	2.0	0.28	ug/L
Dibromochloromethane	1.0	0.17	ug/L
Dichlorodifluoromethane	2.0	0.31	ug/L
Ethylbenzene	1.0	0.16	ug/L
Ethylene Dibromide	1.0	0.18	ug/L
Isopropylbenzene	1.0	0.19	ug/L
Methyl acetate	5.0	1.6	ug/L
Methyl tert-butyl ether	5.0	0.25	ug/L
Methylcyclohexane	2.0	0.10	ug/L
Methylene Chloride	5.0	0.94	ug/L
Styrene	1.0	0.36	ug/L
Tetrachloroethene	1.0	0.20	ug/L
Toluene	1.0	0.17	ug/L
trans-1,2-Dichloroethene	1.0	0.15	ug/L
trans-1,3-Dichloropropene	1.0	0.19	ug/L
Trichloroethene	1.0	0.16	ug/L
Trichlorofluoromethane	2.0	0.29	ug/L
Vinyl chloride	1.5	0.10	ug/L
Xylenes, Total	1.0	0.19	ug/L

Method: RSK-175 - Dissolved Gases (GC)

Default Detection Limits

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137736-1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	LOQ	DL	Units
Methane	0.0050	0.00063	mg/L

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Prep: 3535

Analyte	LOQ	DL	Units
1,3,5-Trinitrobenzene	0.21	0.084	ug/L
1,3-Dinitrobenzene	0.11	0.037	ug/L
2,4,6-Trinitrotoluene	0.11	0.045	ug/L
2,4-Dinitrotoluene	0.10	0.027	ug/L
2,6-Dinitrotoluene	0.10	0.040	ug/L
2-Amino-4,6-dinitrotoluene	0.11	0.051	ug/L
2-Nitrotoluene	0.21	0.086	ug/L
3-Nitrotoluene	0.40	0.20	ug/L
4-Amino-2,6-dinitrotoluene	0.15	0.058	ug/L
4-Nitrotoluene	0.41	0.10	ug/L
HMX	0.21	0.088	ug/L
MNX	2.0	0.15	ug/L
Nitrobenzene	0.21	0.091	ug/L
RDX	0.21	0.052	ug/L
Tetryl	0.11	0.032	ug/L

General Chemistry

Analyte	LOQ	DL	Units
Ammonia	0.10	0.022	mg/L
Nitrate Nitrite as N	0.10	0.019	mg/L
Sulfate	5.0	1.0	mg/L
Total Alkalinity as CaCO3	10	3.1	mg/L

General Chemistry

Prep: 351.2

Analyte	LOQ	DL	Units
Nitrogen, Total Kjeldahl	1.0	0.69	mg/L

General Chemistry

Prep: 9030B

Analyte	LOQ	DL	Units
Sulfide	4.0	0.79	mg/L

General Chemistry - Dissolved

Analyte	LOQ	DL	Units
Dissolved Organic Carbon - Quad	1.0	0.35	mg/L

Surrogate Summary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137736-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(81-118)	(85-114)	(80-119)	(89-112)
280-137736-1	WC-Q3-JUNE20	98	99	100	98
280-137736-2	TB03-061620	98	99	101	97
LCS 280-499912/5	Lab Control Sample	95	100	99	98
LCSD 280-499912/6	Lab Control Sample Dup	96	99	100	97
MB 280-499912/10	Method Blank	96	100	100	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		12DNB1
Lab Sample ID	Client Sample ID	(83-119)
280-137736-1	WC-Q3-JUNE20	115 M
280-137736-3	G0091-20A	95 M
280-137736-4	G0123-20A	98 M
280-137736-4 - DL	G0123-20A	125 D M Q
280-137736-5	G0122-20A	98 M
280-137736-6	G0096-20A	93 M
280-137736-6 - DL	G0096-20A	98 D
280-137736-7	G0296-20A	98 M
280-137736-7 - DL	G0296-20A	114 D
280-137736-8	G0092-20A	98 M
280-137736-9	PZ019-20A	99 M
280-137736-9 MS	PZ019-20A	102
280-137736-9 MS	PZ019-20A	93 M
280-137736-9 MSD	PZ019-20A	90
280-137736-9 MSD	PZ019-20A	89 M
280-137736-10	PZ020-20A	97 M
280-137736-10 - RE	PZ020-20A	103 M
280-137736-11	G0087-20A	101 M
280-137736-11 - RE	G0087-20A	106 M
280-137736-12	G0088-20A	88
280-137736-12 - RE	G0088-20A	107 M
280-137736-13	G0089-20A	88 M
280-137736-13 - RE	G0089-20A	100 M
280-137736-14	G0077-20A	77 Q
280-137736-15	G0078-20A	81 M Q
280-137736-16	G0093-20A	69 Q M
280-137736-17	G0086-20A	81 Q
LCS 280-499406/2-A	Lab Control Sample	79 Q
LCS 280-499406/4-A	Lab Control Sample	91
LCS 280-499527/2-A	Lab Control Sample	102
LCS 280-499527/3-A	Lab Control Sample	95 M
LCS 280-500616/2-A	Lab Control Sample	103

Method: 8330A - Nitroaromatics and Nitramines (HPLC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	12DNB1 (83-119)
LCS 280-500616/4-A	Lab Control Sample	111 M
LCSD 280-499406/3-A	Lab Control Sample Dup	101
LCSD 280-499406/5-A	Lab Control Sample Dup	98 M
LCSD 280-500616/3-A	Lab Control Sample Dup	104
LCSD 280-500616/5-A	Lab Control Sample Dup	105
MB 280-499406/1-A	Method Blank	87
MB 280-499527/1-A	Method Blank	104
MB 280-500616/1-A	Method Blank	101

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	12DNB2 (83-119)
280-137736-1	WC-Q3-JUNE20	169 M Q
280-137736-3	G0091-20A	90 M
280-137736-4	G0123-20A	90
280-137736-4 - DL	G0123-20A	105 M D
280-137736-5	G0122-20A	94
280-137736-6 - DL	G0096-20A	83 M
280-137736-7	G0296-20A	102
280-137736-7 - DL	G0296-20A	82 Q M D
280-137736-8	G0092-20A	96
280-137736-10	PZ020-20A	96 M
280-137736-10 - RE	PZ020-20A	99 M
280-137736-11	G0087-20A	96 M
280-137736-11 - RE	G0087-20A	101
280-137736-12	G0088-20A	87
280-137736-12 - RE	G0088-20A	104 M
280-137736-13	G0089-20A	89
280-137736-13 - RE	G0089-20A	100
280-137736-14	G0077-20A	79 Q
280-137736-16	G0093-20A	75 M Q
280-137736-17	G0086-20A	78 Q

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-499912/10
Matrix: Water
Analysis Batch: 499912

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.40	U	1.0	0.40	0.16	ug/L		06/24/20 10:00	1
1,1,2,2-Tetrachloroethane	0.80	U	1.0	0.80	0.21	ug/L		06/24/20 10:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.40	U	3.0	0.40	0.18	ug/L		06/24/20 10:00	1
1,1,2-Trichloroethane	0.80	U	1.0	0.80	0.27	ug/L		06/24/20 10:00	1
1,1-Dichloroethane	0.80	U	1.0	0.80	0.22	ug/L		06/24/20 10:00	1
1,1-Dichloroethene	0.80	U	1.0	0.80	0.23	ug/L		06/24/20 10:00	1
1,2,3-Trichlorobenzene	0.80	U	1.0	0.80	0.21	ug/L		06/24/20 10:00	1
1,2,4-Trichlorobenzene	0.80	U	1.0	0.80	0.21	ug/L		06/24/20 10:00	1
1,2-Dibromo-3-Chloropropane	1.6	U	5.0	1.6	0.47	ug/L		06/24/20 10:00	1
1,2-Dichlorobenzene	0.40	U	1.0	0.40	0.15	ug/L		06/24/20 10:00	1
1,2-Dichloroethane	0.40	U	1.0	0.40	0.13	ug/L		06/24/20 10:00	1
1,2-Dichloropropane	0.40	U	1.0	0.40	0.18	ug/L		06/24/20 10:00	1
1,3-Dichlorobenzene	0.40	U	1.0	0.40	0.13	ug/L		06/24/20 10:00	1
1,4-Dichlorobenzene	0.40	U	1.0	0.40	0.16	ug/L		06/24/20 10:00	1
2-Butanone (MEK)	4.0	U	6.0	4.0	2.0	ug/L		06/24/20 10:00	1
2-Hexanone	4.0	U	5.0	4.0	1.7	ug/L		06/24/20 10:00	1
4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	3.2	0.98	ug/L		06/24/20 10:00	1
Acetone	6.4	U	10	6.4	1.9	ug/L		06/24/20 10:00	1
Benzene	0.40	U	1.0	0.40	0.16	ug/L		06/24/20 10:00	1
Bromochloromethane	0.20	U	1.0	0.20	0.10	ug/L		06/24/20 10:00	1
Bromodichloromethane	0.40	U	1.0	0.40	0.17	ug/L		06/24/20 10:00	1
Bromoform	1.0	U	1.0	1.0	0.46	ug/L		06/24/20 10:00	1
Bromomethane	0.80	U	2.0	0.80	0.21	ug/L		06/24/20 10:00	1
Carbon disulfide	0.80	U	2.0	0.80	0.17	ug/L		06/24/20 10:00	1
Carbon tetrachloride	0.40	U	2.0	0.40	0.19	ug/L		06/24/20 10:00	1
Chlorobenzene	0.40	U	1.0	0.40	0.17	ug/L		06/24/20 10:00	1
Chloroethane	1.6	U	2.0	1.6	0.41	ug/L		06/24/20 10:00	1
Chloroform	0.40	U	1.0	0.40	0.16	ug/L		06/24/20 10:00	1
Chloromethane	0.80	U	2.0	0.80	0.30	ug/L		06/24/20 10:00	1
cis-1,2-Dichloroethene	0.40	U	1.0	0.40	0.15	ug/L		06/24/20 10:00	1
cis-1,3-Dichloropropene	0.40	U	1.0	0.40	0.16	ug/L		06/24/20 10:00	1
Cyclohexane	0.80	U	2.0	0.80	0.28	ug/L		06/24/20 10:00	1
Dibromochloromethane	0.40	U	1.0	0.40	0.17	ug/L		06/24/20 10:00	1
Dichlorodifluoromethane	0.80	U	2.0	0.80	0.31	ug/L		06/24/20 10:00	1
Ethylbenzene	0.40	U	1.0	0.40	0.16	ug/L		06/24/20 10:00	1
Ethylene Dibromide	0.40	U	1.0	0.40	0.18	ug/L		06/24/20 10:00	1
Isopropylbenzene	0.40	U	1.0	0.40	0.19	ug/L		06/24/20 10:00	1
Methyl acetate	4.0	U	5.0	4.0	1.6	ug/L		06/24/20 10:00	1
Methyl tert-butyl ether	0.80	U	5.0	0.80	0.25	ug/L		06/24/20 10:00	1
Methylcyclohexane	0.40	U	2.0	0.40	0.10	ug/L		06/24/20 10:00	1
Methylene Chloride	2.0	U	5.0	2.0	0.94	ug/L		06/24/20 10:00	1
Styrene	0.80	U	1.0	0.80	0.36	ug/L		06/24/20 10:00	1
Tetrachloroethene	0.40	U	1.0	0.40	0.20	ug/L		06/24/20 10:00	1
Toluene	0.40	U	1.0	0.40	0.17	ug/L		06/24/20 10:00	1
trans-1,2-Dichloroethene	0.40	U	1.0	0.40	0.15	ug/L		06/24/20 10:00	1
trans-1,3-Dichloropropene	0.40	U	1.0	0.40	0.19	ug/L		06/24/20 10:00	1
Trichloroethene	0.40	U	1.0	0.40	0.16	ug/L		06/24/20 10:00	1
Trichlorofluoromethane	0.80	U	2.0	0.80	0.29	ug/L		06/24/20 10:00	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-499912/10
Matrix: Water
Analysis Batch: 499912

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Vinyl chloride	0.20	U	1.5	0.20	0.10	ug/L		06/24/20 10:00	1
Xylenes, Total	0.80	U	1.0	0.80	0.19	ug/L		06/24/20 10:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*81 - 118*		*06/24/20 10:00*	*1*
4-Bromofluorobenzene (Surr)	*100*		*85 - 114*		*06/24/20 10:00*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 119*		*06/24/20 10:00*	*1*
Toluene-d8 (Surr)	*98*		*89 - 112*		*06/24/20 10:00*	*1*

Lab Sample ID: LCS 280-499912/5
Matrix: Water
Analysis Batch: 499912

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	24.1		ug/L		96	74 - 131
1,1,2,2-Tetrachloroethane	25.0	26.0		ug/L		104	71 - 121
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	17.4	Q	ug/L		69	70 - 136
1,1,2-Trichloroethane	25.0	26.6		ug/L		106	80 - 119
1,1-Dichloroethane	25.0	25.4		ug/L		102	77 - 125
1,1-Dichloroethene	25.0	20.5		ug/L		82	71 - 131
1,2,3-Trichlorobenzene	25.0	24.2		ug/L		97	69 - 129
1,2,4-Trichlorobenzene	25.0	23.6		ug/L		94	69 - 130
1,2-Dibromo-3-Chloropropane	25.0	27.4		ug/L		109	62 - 128
1,2-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 119
1,2-Dichloroethane	25.0	25.9		ug/L		104	73 - 128
1,2-Dichloropropane	25.0	27.7		ug/L		111	78 - 122
1,3-Dichlorobenzene	25.0	25.0		ug/L		100	80 - 119
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	79 - 118
2-Butanone (MEK)	100	118		ug/L		118	56 - 143
2-Hexanone	100	117		ug/L		117	57 - 139
4-Methyl-2-pentanone (MIBK)	100	121		ug/L		121	67 - 130
Acetone	100	114		ug/L		114	39 - 160
Benzene	25.0	25.4		ug/L		102	79 - 120
Bromochloromethane	25.0	24.5		ug/L		98	78 - 123
Bromodichloromethane	25.0	26.3		ug/L		105	79 - 125
Bromoform	25.0	25.3		ug/L		101	66 - 130
Bromomethane	25.0	20.9		ug/L		84	53 - 141
Carbon disulfide	25.0	18.4		ug/L		74	64 - 133
Carbon tetrachloride	25.0	24.2		ug/L		97	72 - 136
Chlorobenzene	25.0	24.5		ug/L		98	82 - 118
Chloroethane	25.0	21.6		ug/L		86	60 - 138
Chloroform	25.0	25.2		ug/L		101	79 - 124
Chloromethane	25.0	21.0		ug/L		84	50 - 139
cis-1,2-Dichloroethene	25.0	25.7		ug/L		103	78 - 123
cis-1,3-Dichloropropene	25.0	26.3		ug/L		105	75 - 124
Cyclohexane	25.0	21.5		ug/L		86	71 - 130
Dibromochloromethane	25.0	25.4		ug/L		101	74 - 126
Dichlorodifluoromethane	25.0	16.9		ug/L		68	32 - 152

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-499912/5
Matrix: Water
Analysis Batch: 499912

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	25.0	24.8		ug/L		99	79 - 121
Ethylene Dibromide	25.0	24.4		ug/L		97	77 - 121
Isopropylbenzene	25.0	25.3		ug/L		101	72 - 131
Methyl acetate	50.0	57.4		ug/L		115	56 - 136
Methyl tert-butyl ether	25.0	26.3		ug/L		105	71 - 124
Methylcyclohexane	25.0	22.7		ug/L		91	72 - 132
Methylene Chloride	25.0	26.0		ug/L		104	74 - 124
Styrene	25.0	25.9		ug/L		104	78 - 123
Tetrachloroethene	25.0	24.0		ug/L		96	74 - 129
Toluene	25.0	25.8		ug/L		103	80 - 121
trans-1,2-Dichloroethene	25.0	23.1		ug/L		92	75 - 124
trans-1,3-Dichloropropene	25.0	25.4		ug/L		102	73 - 127
Trichloroethene	25.0	24.3		ug/L		97	79 - 123
Trichlorofluoromethane	25.0	17.6		ug/L		70	65 - 141
Vinyl chloride	25.0	20.5		ug/L		82	58 - 137
Xylenes, Total	50.0	50.7		ug/L		101	79 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*81 - 118*
4-Bromofluorobenzene (Surr)	*100*		*85 - 114*
Dibromofluoromethane (Surr)	*99*		*80 - 119*
Toluene-d8 (Surr)	*98*		*89 - 112*

Lab Sample ID: LCSD 280-499912/6
Matrix: Water
Analysis Batch: 499912

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	25.0	23.9		ug/L		96	74 - 131	1	20
1,1,2,2-Tetrachloroethane	25.0	25.2		ug/L		101	71 - 121	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	17.4		ug/L		70	70 - 136	0	20
1,1,2-Trichloroethane	25.0	26.8		ug/L		107	80 - 119	1	20
1,1-Dichloroethane	25.0	25.4		ug/L		102	77 - 125	0	20
1,1-Dichloroethene	25.0	20.1		ug/L		80	71 - 131	2	20
1,2,3-Trichlorobenzene	25.0	23.8		ug/L		95	69 - 129	2	20
1,2,4-Trichlorobenzene	25.0	23.2		ug/L		93	69 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	26.2		ug/L		105	62 - 128	4	20
1,2-Dichlorobenzene	25.0	23.0		ug/L		92	80 - 119	3	20
1,2-Dichloroethane	25.0	25.6		ug/L		102	73 - 128	1	20
1,2-Dichloropropane	25.0	27.1		ug/L		108	78 - 122	2	20
1,3-Dichlorobenzene	25.0	23.8		ug/L		95	80 - 119	5	20
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	79 - 118	3	20
2-Butanone (MEK)	100	118		ug/L		118	56 - 143	0	20
2-Hexanone	100	118		ug/L		118	57 - 139	1	20
4-Methyl-2-pentanone (MIBK)	100	123		ug/L		123	67 - 130	1	20
Acetone	100	113		ug/L		113	39 - 160	1	20
Benzene	25.0	25.1		ug/L		100	79 - 120	1	20
Bromochloromethane	25.0	24.5		ug/L		98	78 - 123	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-499912/6
Matrix: Water
Analysis Batch: 499912

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane			25.0	26.3		ug/L		105	79 - 125	0	20
Bromoform			25.0	24.7		ug/L		99	66 - 130	2	20
Bromomethane			25.0	19.6		ug/L		78	53 - 141	7	20
Carbon disulfide			25.0	18.2		ug/L		73	64 - 133	1	20
Carbon tetrachloride			25.0	23.4		ug/L		94	72 - 136	3	20
Chlorobenzene			25.0	24.1		ug/L		96	82 - 118	2	20
Chloroethane			25.0	24.2		ug/L		97	60 - 138	11	20
Chloroform			25.0	24.9		ug/L		100	79 - 124	1	20
Chloromethane			25.0	21.9		ug/L		88	50 - 139	4	20
cis-1,2-Dichloroethene			25.0	25.2		ug/L		101	78 - 123	2	20
cis-1,3-Dichloropropene			25.0	25.1		ug/L		100	75 - 124	5	20
Cyclohexane			25.0	21.4		ug/L		86	71 - 130	0	20
Dibromochloromethane			25.0	25.0		ug/L		100	74 - 126	1	20
Dichlorodifluoromethane			25.0	20.0		ug/L		80	32 - 152	17	20
Ethylbenzene			25.0	24.4		ug/L		98	79 - 121	2	20
Ethylene Dibromide			25.0	23.9		ug/L		96	77 - 121	2	20
Isopropylbenzene			25.0	24.7		ug/L		99	72 - 131	2	20
Methyl acetate			50.0	57.6		ug/L		115	56 - 136	0	20
Methyl tert-butyl ether			25.0	25.8		ug/L		103	71 - 124	2	20
Methylcyclohexane			25.0	22.7		ug/L		91	72 - 132	0	20
Methylene Chloride			25.0	25.6		ug/L		103	74 - 124	1	20
Styrene			25.0	25.4		ug/L		102	78 - 123	2	20
Tetrachloroethene			25.0	23.4		ug/L		94	74 - 129	2	20
Toluene			25.0	25.9		ug/L		103	80 - 121	0	20
trans-1,2-Dichloroethene			25.0	22.8		ug/L		91	75 - 124	1	20
trans-1,3-Dichloropropene			25.0	25.2		ug/L		101	73 - 127	1	20
Trichloroethene			25.0	24.4		ug/L		98	79 - 123	1	20
Trichlorofluoromethane			25.0	20.9		ug/L		84	65 - 141	17	20
Vinyl chloride			25.0	22.7		ug/L		91	58 - 137	10	20
Xylenes, Total			50.0	49.4		ug/L		99	79 - 121	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*81 - 118*
4-Bromofluorobenzene (Surr)	*99*		*85 - 114*
Dibromofluoromethane (Surr)	*100*		*80 - 119*
Toluene-d8 (Surr)	*97*		*89 - 112*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 280-500092/4
Matrix: Water
Analysis Batch: 500092

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methane	0.0020	U	0.0050	0.0020	0.00063	mg/L		06/25/20 12:09	1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 280-500092/2
Matrix: Water
Analysis Batch: 500092

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methane			0.0730	0.0687		mg/L		94	73 - 125		

Lab Sample ID: LCSD 280-500092/3
Matrix: Water
Analysis Batch: 500092

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane			0.0730	0.0717		mg/L		98	73 - 125	4	20

Lab Sample ID: 280-137736-9 MS
Matrix: Water
Analysis Batch: 500092

Client Sample ID: PZ019-20A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methane	0.0020	U	0.0730	0.0630		mg/L		86	73 - 125		

Lab Sample ID: 280-137736-9 MSD
Matrix: Water
Analysis Batch: 500092

Client Sample ID: PZ019-20A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane	0.0020	U	0.0730	0.0627		mg/L		86	73 - 125	0	20

Lab Sample ID: 280-137736-9 DU
Matrix: Water
Analysis Batch: 500092

Client Sample ID: PZ019-20A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Methane	0.0020	U		0.0020	U	mg/L				NC	20

Lab Sample ID: 280-137736-10 DU
Matrix: Water
Analysis Batch: 500092

Client Sample ID: PZ020-20A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Methane	0.0020	U		0.0020	U	mg/L				NC	20

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-499406/1-A
Matrix: Water
Analysis Batch: 499989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 499406

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.20	U	0.21	0.20	0.084	ug/L		06/25/20 02:37	1
1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037	ug/L		06/25/20 02:37	1
2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045	ug/L		06/25/20 02:37	1
2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027	ug/L		06/25/20 02:37	1
2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040	ug/L		06/25/20 02:37	1
2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051	ug/L		06/25/20 02:37	1

Method: 8330A - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: MB 280-499406/1-A
Matrix: Water
Analysis Batch: 499989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 499406

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Nitrotoluene	0.20	U	0.21	0.20	0.086	ug/L		06/25/20 02:37	1
3-Nitrotoluene	0.40	U M	0.40	0.40	0.20	ug/L		06/25/20 02:37	1
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058	ug/L		06/25/20 02:37	1
4-Nitrotoluene	0.40	U	0.41	0.40	0.10	ug/L		06/25/20 02:37	1
HMX	0.20	U	0.21	0.20	0.088	ug/L		06/25/20 02:37	1
MNX	0.40	U M	2.0	0.40	0.15	ug/L		06/25/20 02:37	1
Nitrobenzene	0.20	U	0.21	0.20	0.091	ug/L		06/25/20 02:37	1
RDX	0.20	U	0.21	0.20	0.052	ug/L		06/25/20 02:37	1
Tetryl	0.10	U	0.11	0.10	0.032	ug/L		06/25/20 02:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dinitrobenzene	*87*		*83 - 119*	*06/19/20 15:47*	*06/25/20 02:37*	*1*

Lab Sample ID: LCS 280-499406/2-A
Matrix: Water
Analysis Batch: 500316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 499406

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trinitrobenzene	2.00	1.92	Q	ug/L		96	73 - 125
1,3-Dinitrobenzene	2.00	1.73	Q	ug/L		86	78 - 120
2,4,6-Trinitrotoluene	2.00	1.94	Q	ug/L		97	71 - 123
2,4-Dinitrotoluene	2.00	1.59	Q	ug/L		80	78 - 120
2,6-Dinitrotoluene	2.00	1.64	Q	ug/L		82	77 - 127
2-Amino-4,6-dinitrotoluene	2.00	1.52	Q	ug/L		76	79 - 120
2-Nitrotoluene	2.00	1.21	Q	ug/L		60	70 - 127
3-Nitrotoluene	2.00	1.35	Q	ug/L		67	73 - 125
4-Amino-2,6-dinitrotoluene	2.00	1.36	Q	ug/L		68	76 - 125
4-Nitrotoluene	2.00	1.36	Q	ug/L		68	71 - 127
HMX	2.00	2.19	Q	ug/L		110	65 - 135
Nitrobenzene	2.00	1.45	Q	ug/L		72	65 - 134
RDX	2.00	1.83	Q	ug/L		92	68 - 130
Tetryl	2.00	1.79	Q	ug/L		90	64 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dinitrobenzene	*79*	*Q*	*83 - 119*

Lab Sample ID: LCS 280-499406/4-A
Matrix: Water
Analysis Batch: 499989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 499406

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
MNX	2.33	1.63	J	ug/L		70	57 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dinitrobenzene	*91*		*83 - 119*

Method: 8330A - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: LCSD 280-499406/3-A
Matrix: Water
Analysis Batch: 500316

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 499406

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trinitrobenzene			2.00	2.37		ug/L		118	73 - 125	21	30
1,3-Dinitrobenzene			2.00	2.21		ug/L		111	78 - 120	25	30
2,4,6-Trinitrotoluene			2.00	2.35		ug/L		117	71 - 123	19	30
2,4-Dinitrotoluene			2.00	2.08		ug/L		104	78 - 120	26	30
2,6-Dinitrotoluene			2.00	2.11		ug/L		105	77 - 127	25	30
2-Amino-4,6-dinitrotoluene			2.00	2.02		ug/L		101	79 - 120	28	30
2-Nitrotoluene			2.00	1.63		ug/L		81	70 - 127	30	30
3-Nitrotoluene			2.00	1.82		ug/L		91	73 - 125	30	30
4-Amino-2,6-dinitrotoluene			2.00	1.77		ug/L		89	76 - 125	27	30
4-Nitrotoluene			2.00	1.81		ug/L		90	71 - 127	28	30
HMX			2.00	2.20	M	ug/L		110	65 - 135	0	30
Nitrobenzene			2.00	1.90		ug/L		95	65 - 134	27	30
RDX			2.00	2.13		ug/L		106	68 - 130	15	30
Tetryl			2.00	2.11		ug/L		105	64 - 128	16	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dinitrobenzene	*101*		*83 - 119*

Lab Sample ID: LCSD 280-499406/5-A
Matrix: Water
Analysis Batch: 499989

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 499406

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
MNX			2.33	2.00	M	ug/L		86	57 - 132	21	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dinitrobenzene	*98*	*M*	*83 - 119*

Lab Sample ID: MB 280-499527/1-A
Matrix: Water
Analysis Batch: 499988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 499527

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.20	U M	0.21	0.20	0.084	ug/L		06/24/20 17:25	1
1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037	ug/L		06/24/20 17:25	1
2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045	ug/L		06/24/20 17:25	1
2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027	ug/L		06/24/20 17:25	1
2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040	ug/L		06/24/20 17:25	1
2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051	ug/L		06/24/20 17:25	1
2-Nitrotoluene	0.20	U	0.21	0.20	0.086	ug/L		06/24/20 17:25	1
3-Nitrotoluene	0.40	U M	0.40	0.40	0.20	ug/L		06/24/20 17:25	1
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058	ug/L		06/24/20 17:25	1
4-Nitrotoluene	0.40	U	0.41	0.40	0.10	ug/L		06/24/20 17:25	1
HMX	0.20	U	0.21	0.20	0.088	ug/L		06/24/20 17:25	1
MNX	0.40	U M	2.0	0.40	0.15	ug/L		06/24/20 17:25	1
Nitrobenzene	0.20	U	0.21	0.20	0.091	ug/L		06/24/20 17:25	1
RDX	0.20	U	0.21	0.20	0.052	ug/L		06/24/20 17:25	1
Tetryl	0.10	U	0.11	0.10	0.032	ug/L		06/24/20 17:25	1

Method: 8330A - Nitroaromatics and Nitramines (HPLC) (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	*104*		*83 - 119*	*06/20/20 17:13*	*06/24/20 17:25*	*1*

Lab Sample ID: LCS 280-499527/2-A
Matrix: Water
Analysis Batch: 499988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 499527

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trinitrobenzene	2.00	2.40		ug/L		120	73 - 125
1,3-Dinitrobenzene	2.00	2.26		ug/L		113	78 - 120
2,4,6-Trinitrotoluene	2.00	2.34		ug/L		117	71 - 123
2,4-Dinitrotoluene	2.00	2.11		ug/L		105	78 - 120
2,6-Dinitrotoluene	2.00	2.18		ug/L		109	77 - 127
2-Amino-4,6-dinitrotoluene	2.00	2.02		ug/L		101	79 - 120
2-Nitrotoluene	2.00	1.68		ug/L		84	70 - 127
3-Nitrotoluene	2.00	1.85	M	ug/L		93	73 - 125
4-Amino-2,6-dinitrotoluene	2.00	1.82		ug/L		91	76 - 125
4-Nitrotoluene	2.00	1.88		ug/L		94	71 - 127
HMX	2.00	2.16	M	ug/L		108	65 - 135
Nitrobenzene	2.00	1.97		ug/L		99	65 - 134
RDX	2.00	2.10		ug/L		105	68 - 130
Tetryl	2.00	2.11		ug/L		106	64 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	*102*		*83 - 119*

Lab Sample ID: LCS 280-499527/3-A
Matrix: Water
Analysis Batch: 499988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 499527

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
MNX	2.33	2.00	M	ug/L		86	57 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	*95*	*M*	*83 - 119*

Lab Sample ID: 280-137736-9 MS
Matrix: Water
Analysis Batch: 499988

Client Sample ID: PZ019-20A
Prep Type: Total/NA
Prep Batch: 499527

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trinitrobenzene	0.21	U	2.10	2.45		ug/L		117	73 - 125
1,3-Dinitrobenzene	0.11	U	2.10	2.40		ug/L		114	78 - 120
2,4,6-Trinitrotoluene	0.11	U	2.10	2.43		ug/L		116	71 - 123
2,4-Dinitrotoluene	0.084	U	2.10	2.19		ug/L		105	78 - 120
2,6-Dinitrotoluene	0.084	U	2.10	2.25		ug/L		107	77 - 127
2-Amino-4,6-dinitrotoluene	0.11	U	2.10	2.08		ug/L		99	79 - 120
2-Nitrotoluene	0.21	U	2.10	1.88		ug/L		90	70 - 127
3-Nitrotoluene	0.42	U M	2.10	2.10		ug/L		100	73 - 125
4-Amino-2,6-dinitrotoluene	0.13	U	2.10	1.90		ug/L		90	76 - 125
4-Nitrotoluene	0.42	U	2.10	1.96		ug/L		93	71 - 127
HMX	0.21	U	2.10	2.23	M	ug/L		106	65 - 135

Method: 8330A - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: 280-137736-9 MS
Matrix: Water
Analysis Batch: 499988

Client Sample ID: PZ019-20A
Prep Type: Total/NA
Prep Batch: 499527

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrobenzene	0.21	U M	2.10	2.31		ug/L		110	65 - 134
RDX	0.21	U	2.10	2.22	M	ug/L		106	68 - 130
Tetryl	0.11	U	2.10	2.23		ug/L		106	64 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dinitrobenzene	*102*		*83 - 119*

Lab Sample ID: 280-137736-9 MS
Matrix: Water
Analysis Batch: 499988

Client Sample ID: PZ019-20A
Prep Type: Total/NA
Prep Batch: 499527

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
MNX	0.42	U M	2.47	2.18	M	ug/L		88	57 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dinitrobenzene	*93*	*M*	*83 - 119*

Lab Sample ID: 280-137736-9 MSD
Matrix: Water
Analysis Batch: 499988

Client Sample ID: PZ019-20A
Prep Type: Total/NA
Prep Batch: 499527

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trinitrobenzene	0.21	U	2.10	2.23		ug/L		106	73 - 125	9	30
1,3-Dinitrobenzene	0.11	U	2.10	2.13		ug/L		101	78 - 120	12	30
2,4,6-Trinitrotoluene	0.11	U	2.10	2.30		ug/L		109	71 - 123	6	30
2,4-Dinitrotoluene	0.084	U	2.10	1.99		ug/L		95	78 - 120	10	30
2,6-Dinitrotoluene	0.084	U	2.10	2.07		ug/L		99	77 - 127	8	30
2-Amino-4,6-dinitrotoluene	0.11	U	2.10	1.87		ug/L		89	79 - 120	11	30
2-Nitrotoluene	0.21	U	2.10	1.66		ug/L		79	70 - 127	12	30
3-Nitrotoluene	0.42	U M	2.10	1.79	M	ug/L		85	73 - 125	16	30
4-Amino-2,6-dinitrotoluene	0.13	U	2.10	1.69		ug/L		80	76 - 125	12	30
4-Nitrotoluene	0.42	U	2.10	1.76		ug/L		83	71 - 127	11	30
HMX	0.21	U	2.10	2.15	M	ug/L		102	65 - 135	3	30
Nitrobenzene	0.21	U M	2.10	1.95		ug/L		93	65 - 134	17	30
RDX	0.21	U	2.10	2.13	M	ug/L		101	68 - 130	4	30
Tetryl	0.11	U	2.10	2.14		ug/L		102	64 - 128	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dinitrobenzene	*90*		*83 - 119*

Lab Sample ID: 280-137736-9 MSD
Matrix: Water
Analysis Batch: 499988

Client Sample ID: PZ019-20A
Prep Type: Total/NA
Prep Batch: 499527

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
MNX	0.42	U M	2.47	2.08	J M	ug/L		84	57 - 132	5	30

Method: 8330A - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: 280-137736-9 MSD
Matrix: Water
Analysis Batch: 499988

Client Sample ID: PZ019-20A
Prep Type: Total/NA
Prep Batch: 499527

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dinitrobenzene	*89*	*M*	*83 - 119*

Lab Sample ID: MB 280-500616/1-A
Matrix: Water
Analysis Batch: 500691

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 500616

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.20	U	0.21	0.20	0.084	ug/L		07/01/20 00:51	1
1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037	ug/L		07/01/20 00:51	1
2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045	ug/L		07/01/20 00:51	1
2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027	ug/L		07/01/20 00:51	1
2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040	ug/L		07/01/20 00:51	1
2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051	ug/L		07/01/20 00:51	1
2-Nitrotoluene	0.20	U	0.21	0.20	0.086	ug/L		07/01/20 00:51	1
3-Nitrotoluene	0.40	U	0.40	0.40	0.20	ug/L		07/01/20 00:51	1
4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058	ug/L		07/01/20 00:51	1
4-Nitrotoluene	0.40	U	0.41	0.40	0.10	ug/L		07/01/20 00:51	1
HMX	0.20	U	0.21	0.20	0.088	ug/L		07/01/20 00:51	1
MNX	0.40	U M	2.0	0.40	0.15	ug/L		07/01/20 00:51	1
Nitrobenzene	0.20	U	0.21	0.20	0.091	ug/L		07/01/20 00:51	1
RDX	0.20	U	0.21	0.20	0.052	ug/L		07/01/20 00:51	1
Tetryl	0.10	U	0.11	0.10	0.032	ug/L		07/01/20 00:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dinitrobenzene	*101*		*83 - 119*	*06/30/20 12:07*	*07/01/20 00:51*	*1*

Lab Sample ID: LCS 280-500616/2-A
Matrix: Water
Analysis Batch: 500691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 500616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trinitrobenzene	2.00	2.23		ug/L		111	73 - 125
1,3-Dinitrobenzene	2.00	2.10		ug/L		105	78 - 120
2,4,6-Trinitrotoluene	2.00	2.21		ug/L		111	71 - 123
2,4-Dinitrotoluene	2.00	1.96		ug/L		98	78 - 120
2,6-Dinitrotoluene	2.00	2.01		ug/L		101	77 - 127
2-Amino-4,6-dinitrotoluene	2.00	1.89		ug/L		95	79 - 120
2-Nitrotoluene	2.00	1.70		ug/L		85	70 - 127
3-Nitrotoluene	2.00	1.92		ug/L		96	73 - 125
4-Amino-2,6-dinitrotoluene	2.00	1.68		ug/L		84	76 - 125
4-Nitrotoluene	2.00	1.76		ug/L		88	71 - 127
HMX	2.00	2.20		ug/L		110	65 - 135
Nitrobenzene	2.00	1.97		ug/L		99	65 - 134
RDX	2.00	2.00		ug/L		100	68 - 130
Tetryl	2.00	1.97		ug/L		99	64 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dinitrobenzene	*103*		*83 - 119*

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: LCS 280-500616/4-A
Matrix: Water
Analysis Batch: 500691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 500616

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
MNX			2.33	1.99	J M	ug/L		85	57 - 132		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dinitrobenzene	*111*	*M*	*83 - 119*

Lab Sample ID: LCSD 280-500616/3-A
Matrix: Water
Analysis Batch: 500691

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 500616

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trinitrobenzene			2.00	2.33		ug/L		117	73 - 125	5	30
1,3-Dinitrobenzene			2.00	2.23		ug/L		111	78 - 120	6	30
2,4,6-Trinitrotoluene			2.00	2.31		ug/L		116	71 - 123	4	30
2,4-Dinitrotoluene			2.00	2.07		ug/L		103	78 - 120	5	30
2,6-Dinitrotoluene			2.00	2.12		ug/L		106	77 - 127	5	30
2-Amino-4,6-dinitrotoluene			2.00	2.02		ug/L		101	79 - 120	6	30
2-Nitrotoluene			2.00	1.86		ug/L		93	70 - 127	9	30
3-Nitrotoluene			2.00	2.07		ug/L		103	73 - 125	7	30
4-Amino-2,6-dinitrotoluene			2.00	1.80		ug/L		90	76 - 125	7	30
4-Nitrotoluene			2.00	1.92		ug/L		96	71 - 127	9	30
HMX			2.00	2.21	M	ug/L		111	65 - 135	1	30
Nitrobenzene			2.00	2.17		ug/L		108	65 - 134	9	30
RDX			2.00	2.11		ug/L		106	68 - 130	6	30
Tetryl			2.00	2.05		ug/L		103	64 - 128	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dinitrobenzene	*104*		*83 - 119*

Lab Sample ID: LCSD 280-500616/5-A
Matrix: Water
Analysis Batch: 500691

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 500616

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
MNX			2.33	2.16		ug/L		92	57 - 132	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dinitrobenzene	*105*		*83 - 119*

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-499929/19
Matrix: Water
Analysis Batch: 499929

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ammonia	0.050	U	0.10	0.050	0.022	mg/L		06/23/20 11:49	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 280-499929/18
Matrix: Water
Analysis Batch: 499929

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			2.50	2.56		mg/L		103	90 - 110		

Lab Sample ID: LCSD 280-499929/101
Matrix: Water
Analysis Batch: 499929

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia			2.50	2.60		mg/L		104	90 - 110	2	10

Lab Sample ID: 280-137736-9 MS
Matrix: Water
Analysis Batch: 499929

Client Sample ID: PZ019-20A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia	0.050	U	1.00	0.949		mg/L		95	90 - 110		

Lab Sample ID: 280-137736-9 MSD
Matrix: Water
Analysis Batch: 499929

Client Sample ID: PZ019-20A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	0.050	U	1.00	0.953		mg/L		95	90 - 110	0	10

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 280-499858/2-A
Matrix: Water
Analysis Batch: 500036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 499858

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrogen, Total Kjeldahl	1.0	U	1.0	1.0	0.69	mg/L		06/24/20 18:37	1

Lab Sample ID: LCS 280-499858/1-A
Matrix: Water
Analysis Batch: 500036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 499858

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrogen, Total Kjeldahl			6.00	6.47		mg/L		108	90 - 110		

Lab Sample ID: 280-137736-9 MS
Matrix: Water
Analysis Batch: 500036

Client Sample ID: PZ019-20A
Prep Type: Total/NA
Prep Batch: 499858

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrogen, Total Kjeldahl	1.0	U J1	3.00	1.91	J1	mg/L		64	90 - 110		

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 280-137736-9 MSD — **Client Sample ID: PZ019-20A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 500036 — **Prep Batch: 499858**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Total Kjeldahl	1.0	U J1	3.00	1.22	J1	mg/L		41	90 - 110	44	25

Lab Sample ID: 280-137736-14 MS — **Client Sample ID: G0077-20A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 500036 — **Prep Batch: 499858**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Total Kjeldahl	1.0	U J1	3.00	1.67	J1	mg/L		56	90 - 110

Lab Sample ID: 280-137736-14 MSD — **Client Sample ID: G0077-20A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 500036 — **Prep Batch: 499858**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Total Kjeldahl	1.0	U J1	3.00	1.61	J1	mg/L		54	90 - 110	4	25

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 280-499726/104 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 499726

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.050	U	0.10	0.050	0.019	mg/L		06/22/20 19:58	1

Lab Sample ID: LCS 280-499726/103 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 499726

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	5.00	5.15		mg/L		103	90 - 110

Lab Sample ID: 280-137736-9 MS — **Client Sample ID: PZ019-20A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 499726

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	34	J1	20.0	48.2	J1	mg/L		72	90 - 110

Lab Sample ID: 280-137736-9 MSD — **Client Sample ID: PZ019-20A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 499726

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	34	J1	20.0	48.4	J1	mg/L		72	90 - 110	0	10

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 280-499423/2-A
Matrix: Water
Analysis Batch: 499425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 499423

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide	1.9	U	4.0	1.9	0.79	mg/L		06/19/20 12:54	1

Lab Sample ID: LCS 280-499423/1-A
Matrix: Water
Analysis Batch: 499425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 499423

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	21.7	16.8		mg/L		77	44 - 110

Lab Sample ID: MB 280-499428/2-A
Matrix: Water
Analysis Batch: 499485

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 499428

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide	1.9	U	4.0	1.9	0.79	mg/L		06/19/20 17:04	1

Lab Sample ID: LCS 280-499428/1-A
Matrix: Water
Analysis Batch: 499485

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 499428

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	21.7	17.6		mg/L		81	44 - 110

Lab Sample ID: MB 280-499634/2-A
Matrix: Water
Analysis Batch: 499653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 499634

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide	0.800	J	4.0	1.9	0.79	mg/L		06/22/20 12:04	1

Lab Sample ID: LCS 280-499634/1-A
Matrix: Water
Analysis Batch: 499653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 499634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	22.9	20.0		mg/L		87	44 - 110

Lab Sample ID: 280-137736-9 MS
Matrix: Water
Analysis Batch: 499653

Client Sample ID: PZ019-20A
Prep Type: Total/NA
Prep Batch: 499634

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	1.9	U	22.9	18.4		mg/L		80	44 - 110

Lab Sample ID: 280-137736-9 MSD
Matrix: Water
Analysis Batch: 499653

Client Sample ID: PZ019-20A
Prep Type: Total/NA
Prep Batch: 499634

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	1.9	U	22.9	16.0		mg/L		70	44 - 110	14	20

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 280-500630/6
Matrix: Water
Analysis Batch: 500630

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	3.0	U	5.0	3.0	1.0	mg/L		06/30/20 11:40	1

Lab Sample ID: LCS 280-500630/4
Matrix: Water
Analysis Batch: 500630

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	100	94.8		mg/L		95	87 - 112

Lab Sample ID: LCSD 280-500630/5
Matrix: Water
Analysis Batch: 500630

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	100	94.8		mg/L		95	87 - 112	0	10

Lab Sample ID: MRL 280-500630/3
Matrix: Water
Analysis Batch: 500630

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.49	J	mg/L		90	50 - 150

Lab Sample ID: 280-137736-4 MS
Matrix: Water
Analysis Batch: 500630

Client Sample ID: G0123-20A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	490	D	250	747	D	mg/L		104	87 - 112

Lab Sample ID: 280-137736-4 MSD
Matrix: Water
Analysis Batch: 500630

Client Sample ID: G0123-20A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	490	D	250	744	D	mg/L		102	87 - 112	0	10

Lab Sample ID: 280-137736-9 MS
Matrix: Water
Analysis Batch: 500630

Client Sample ID: PZ019-20A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	58		50.0	111		mg/L		106	87 - 112

Lab Sample ID: 280-137736-9 MSD
Matrix: Water
Analysis Batch: 500630

Client Sample ID: PZ019-20A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	58		50.0	109		mg/L		103	87 - 112	2	10

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: 280-137736-4 DU
Matrix: Water
Analysis Batch: 500630

Client Sample ID: G0123-20A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	490	D	481	D	mg/L		1	10

Lab Sample ID: 280-137736-9 DU
Matrix: Water
Analysis Batch: 500630

Client Sample ID: PZ019-20A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	58		58.1		mg/L		0	10

Lab Sample ID: MB 280-500783/6
Matrix: Water
Analysis Batch: 500783

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfate	3.0	U	5.0	3.0	1.0	mg/L		07/01/20 11:09	1

Lab Sample ID: LCS 280-500783/4
Matrix: Water
Analysis Batch: 500783

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	100	95.4		mg/L		95	87 - 112

Lab Sample ID: LCSD 280-500783/5
Matrix: Water
Analysis Batch: 500783

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	100	94.8		mg/L		95	87 - 112	1	10

Lab Sample ID: MRL 280-500783/3
Matrix: Water
Analysis Batch: 500783

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.48	J	mg/L		90	50 - 150

Method: 9060A - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 280-500659/27-A
Matrix: Water
Analysis Batch: 501126

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Dissolved Organic Carbon - Quad	1.0	U	1.0	1.0	0.35	mg/L		07/03/20 05:51	1

Method: 9060A - Organic Carbon, Dissolved (DOC) (Continued)

Lab Sample ID: LCS 280-500659/25-A
Matrix: Water
Analysis Batch: 501126

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Dissolved Organic Carbon - Quad			25.0	27.0		mg/L		108	88 - 112		

Lab Sample ID: LCSD 280-500659/26-A
Matrix: Water
Analysis Batch: 501126

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Organic Carbon - Quad			25.0	27.2		mg/L		109	88 - 112	1	15

Lab Sample ID: MB 280-501228/3-A
Matrix: Water
Analysis Batch: 501318

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Dissolved Organic Carbon - Quad	1.0	U	1.0	1.0	0.35	mg/L		07/06/20 19:44	1

Lab Sample ID: LCS 280-501228/1-A
Matrix: Water
Analysis Batch: 501318

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Dissolved Organic Carbon - Quad			25.0	25.5		mg/L		102	88 - 112		

Lab Sample ID: LCSD 280-501228/2-A
Matrix: Water
Analysis Batch: 501318

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Organic Carbon - Quad			25.0	26.4		mg/L		106	88 - 112	4	15

Lab Sample ID: 280-137736-9 MS
Matrix: Water
Analysis Batch: 501318

Client Sample ID: PZ019-20A
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Dissolved Organic Carbon - Quad	2.0		25.0	28.7		mg/L		107	88 - 112		

Lab Sample ID: 280-137736-9 MSD
Matrix: Water
Analysis Batch: 501318

Client Sample ID: PZ019-20A
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Organic Carbon - Quad	2.0		25.0	28.8		mg/L		107	88 - 112	0	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-499387/60
Matrix: Water
Analysis Batch: 499387

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3	10	U	10	10	3.1	mg/L		06/18/20 17:50	1

Lab Sample ID: LCS 280-499387/58
Matrix: Water
Analysis Batch: 499387

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3	200	186		mg/L		93	89 - 109

Lab Sample ID: LCSD 280-499387/59
Matrix: Water
Analysis Batch: 499387

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Alkalinity as CaCO3	200	189		mg/L		94	89 - 109	1	10

Lab Sample ID: MB 280-499605/5
Matrix: Water
Analysis Batch: 499605

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO3	10	U	10	10	3.1	mg/L		06/19/20 13:41	1

Lab Sample ID: LCS 280-499605/4
Matrix: Water
Analysis Batch: 499605

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3	200	192		mg/L		96	89 - 109

QC Association Summary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137736-1

GC/MS VOA

Analysis Batch: 499912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-1	WC-Q3-JUNE20	Total/NA	Water	8260B	
280-137736-2	TB03-061620	Total/NA	Water	8260B	
MB 280-499912/10	Method Blank	Total/NA	Water	8260B	
LCS 280-499912/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-499912/6	Lab Control Sample Dup	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 500092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-3	G0091-20A	Total/NA	Water	RSK-175	
280-137736-4	G0123-20A	Total/NA	Water	RSK-175	
280-137736-5	G0122-20A	Total/NA	Water	RSK-175	
280-137736-6	G0096-20A	Total/NA	Water	RSK-175	
280-137736-7	G0296-20A	Total/NA	Water	RSK-175	
280-137736-8	G0092-20A	Total/NA	Water	RSK-175	
280-137736-9	PZ019-20A	Total/NA	Water	RSK-175	
280-137736-10	PZ020-20A	Total/NA	Water	RSK-175	
280-137736-11	G0087-20A	Total/NA	Water	RSK-175	
280-137736-12	G0088-20A	Total/NA	Water	RSK-175	
280-137736-13	G0089-20A	Total/NA	Water	RSK-175	
280-137736-14	G0077-20A	Total/NA	Water	RSK-175	
280-137736-15	G0078-20A	Total/NA	Water	RSK-175	
280-137736-16	G0093-20A	Total/NA	Water	RSK-175	
280-137736-17	G0086-20A	Total/NA	Water	RSK-175	
MB 280-500092/4	Method Blank	Total/NA	Water	RSK-175	
LCS 280-500092/2	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 280-500092/3	Lab Control Sample Dup	Total/NA	Water	RSK-175	
280-137736-9 MS	PZ019-20A	Total/NA	Water	RSK-175	
280-137736-9 MSD	PZ019-20A	Total/NA	Water	RSK-175	
280-137736-9 DU	PZ019-20A	Total/NA	Water	RSK-175	
280-137736-10 DU	PZ020-20A	Total/NA	Water	RSK-175	

HPLC/IC

Prep Batch: 499406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-10	PZ020-20A	Total/NA	Water	3535	
280-137736-11	G0087-20A	Total/NA	Water	3535	
280-137736-12	G0088-20A	Total/NA	Water	3535	
280-137736-13	G0089-20A	Total/NA	Water	3535	
MB 280-499406/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-499406/2-A	Lab Control Sample	Total/NA	Water	3535	
LCS 280-499406/4-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-499406/3-A	Lab Control Sample Dup	Total/NA	Water	3535	
LCSD 280-499406/5-A	Lab Control Sample Dup	Total/NA	Water	3535	

Prep Batch: 499527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-1	WC-Q3-JUNE20	Total/NA	Water	3535	
280-137736-3	G0091-20A	Total/NA	Water	3535	
280-137736-4	G0123-20A	Total/NA	Water	3535	

HPLC/IC (Continued)

Prep Batch: 499527 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-4 - DL	G0123-20A	Total/NA	Water	3535	
280-137736-5	G0122-20A	Total/NA	Water	3535	
280-137736-6 - DL	G0096-20A	Total/NA	Water	3535	
280-137736-6	G0096-20A	Total/NA	Water	3535	
280-137736-7 - DL	G0296-20A	Total/NA	Water	3535	
280-137736-7	G0296-20A	Total/NA	Water	3535	
280-137736-8	G0092-20A	Total/NA	Water	3535	
280-137736-9	PZ019-20A	Total/NA	Water	3535	
280-137736-14	G0077-20A	Total/NA	Water	3535	
280-137736-15	G0078-20A	Total/NA	Water	3535	
280-137736-16	G0093-20A	Total/NA	Water	3535	
280-137736-17	G0086-20A	Total/NA	Water	3535	
MB 280-499527/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-499527/2-A	Lab Control Sample	Total/NA	Water	3535	
LCS 280-499527/3-A	Lab Control Sample	Total/NA	Water	3535	
280-137736-9 MS	PZ019-20A	Total/NA	Water	3535	
280-137736-9 MS	PZ019-20A	Total/NA	Water	3535	
280-137736-9 MSD	PZ019-20A	Total/NA	Water	3535	
280-137736-9 MSD	PZ019-20A	Total/NA	Water	3535	

Analysis Batch: 499988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-1	WC-Q3-JUNE20	Total/NA	Water	8330A	499527
280-137736-3	G0091-20A	Total/NA	Water	8330A	499527
280-137736-4	G0123-20A	Total/NA	Water	8330A	499527
280-137736-5	G0122-20A	Total/NA	Water	8330A	499527
280-137736-6	G0096-20A	Total/NA	Water	8330A	499527
280-137736-7	G0296-20A	Total/NA	Water	8330A	499527
280-137736-8	G0092-20A	Total/NA	Water	8330A	499527
280-137736-9	PZ019-20A	Total/NA	Water	8330A	499527
280-137736-14	G0077-20A	Total/NA	Water	8330A	499527
280-137736-15	G0078-20A	Total/NA	Water	8330A	499527
280-137736-17	G0086-20A	Total/NA	Water	8330A	499527
MB 280-499527/1-A	Method Blank	Total/NA	Water	8330A	499527
LCS 280-499527/2-A	Lab Control Sample	Total/NA	Water	8330A	499527
LCS 280-499527/3-A	Lab Control Sample	Total/NA	Water	8330A	499527
280-137736-9 MS	PZ019-20A	Total/NA	Water	8330A	499527
280-137736-9 MS	PZ019-20A	Total/NA	Water	8330A	499527
280-137736-9 MSD	PZ019-20A	Total/NA	Water	8330A	499527
280-137736-9 MSD	PZ019-20A	Total/NA	Water	8330A	499527

Analysis Batch: 499989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-10	PZ020-20A	Total/NA	Water	8330A	499406
280-137736-11	G0087-20A	Total/NA	Water	8330A	499406
280-137736-12	G0088-20A	Total/NA	Water	8330A	499406
280-137736-13	G0089-20A	Total/NA	Water	8330A	499406
MB 280-499406/1-A	Method Blank	Total/NA	Water	8330A	499406
LCS 280-499406/4-A	Lab Control Sample	Total/NA	Water	8330A	499406
LCSD 280-499406/5-A	Lab Control Sample Dup	Total/NA	Water	8330A	499406

HPLC/IC

Analysis Batch: 500316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-4 - DL	G0123-20A	Total/NA	Water	8330A	499527
280-137736-6 - DL	G0096-20A	Total/NA	Water	8330A	499527
280-137736-7 - DL	G0296-20A	Total/NA	Water	8330A	499527
280-137736-16	G0093-20A	Total/NA	Water	8330A	499527
LCS 280-499406/2-A	Lab Control Sample	Total/NA	Water	8330A	499406
LCSD 280-499406/3-A	Lab Control Sample Dup	Total/NA	Water	8330A	499406

Analysis Batch: 500326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-1	WC-Q3-JUNE20	Total/NA	Water	8330A	499527
280-137736-3	G0091-20A	Total/NA	Water	8330A	499527
280-137736-4	G0123-20A	Total/NA	Water	8330A	499527
280-137736-4 - DL	G0123-20A	Total/NA	Water	8330A	499527
280-137736-5	G0122-20A	Total/NA	Water	8330A	499527
280-137736-6	G0096-20A	Total/NA	Water	8330A	499527
280-137736-6 - DL	G0096-20A	Total/NA	Water	8330A	499527
280-137736-7	G0296-20A	Total/NA	Water	8330A	499527
280-137736-7 - DL	G0296-20A	Total/NA	Water	8330A	499527
280-137736-8	G0092-20A	Total/NA	Water	8330A	499527
280-137736-14	G0077-20A	Total/NA	Water	8330A	499527
280-137736-16	G0093-20A	Total/NA	Water	8330A	499527
280-137736-17	G0086-20A	Total/NA	Water	8330A	499527

Analysis Batch: 500327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-10	PZ020-20A	Total/NA	Water	8330A	499406
280-137736-11	G0087-20A	Total/NA	Water	8330A	499406
280-137736-12	G0088-20A	Total/NA	Water	8330A	499406
280-137736-13	G0089-20A	Total/NA	Water	8330A	499406

Prep Batch: 500616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-10 - RE	PZ020-20A	Total/NA	Water	3535	
280-137736-11 - RE	G0087-20A	Total/NA	Water	3535	
280-137736-12 - RE	G0088-20A	Total/NA	Water	3535	
280-137736-13 - RE	G0089-20A	Total/NA	Water	3535	
MB 280-500616/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-500616/2-A	Lab Control Sample	Total/NA	Water	3535	
LCS 280-500616/4-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-500616/3-A	Lab Control Sample Dup	Total/NA	Water	3535	
LCSD 280-500616/5-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 500691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-10 - RE	PZ020-20A	Total/NA	Water	8330A	500616
280-137736-11 - RE	G0087-20A	Total/NA	Water	8330A	500616
280-137736-12 - RE	G0088-20A	Total/NA	Water	8330A	500616
280-137736-13 - RE	G0089-20A	Total/NA	Water	8330A	500616
MB 280-500616/1-A	Method Blank	Total/NA	Water	8330A	500616
LCS 280-500616/2-A	Lab Control Sample	Total/NA	Water	8330A	500616
LCS 280-500616/4-A	Lab Control Sample	Total/NA	Water	8330A	500616

HPLC/IC (Continued)

Analysis Batch: 500691 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 280-500616/3-A	Lab Control Sample Dup	Total/NA	Water	8330A	500616
LCSD 280-500616/5-A	Lab Control Sample Dup	Total/NA	Water	8330A	500616

Analysis Batch: 500847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-10 - RE	PZ020-20A	Total/NA	Water	8330A	500616
280-137736-11 - RE	G0087-20A	Total/NA	Water	8330A	500616
280-137736-12 - RE	G0088-20A	Total/NA	Water	8330A	500616
280-137736-13 - RE	G0089-20A	Total/NA	Water	8330A	500616

General Chemistry

Analysis Batch: 499387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-3	G0091-20A	Total/NA	Water	SM 2320B	
280-137736-4	G0123-20A	Total/NA	Water	SM 2320B	
280-137736-5	G0122-20A	Total/NA	Water	SM 2320B	
280-137736-7	G0296-20A	Total/NA	Water	SM 2320B	
280-137736-8	G0092-20A	Total/NA	Water	SM 2320B	
280-137736-9	PZ019-20A	Total/NA	Water	SM 2320B	
280-137736-10	PZ020-20A	Total/NA	Water	SM 2320B	
280-137736-11	G0087-20A	Total/NA	Water	SM 2320B	
280-137736-12	G0088-20A	Total/NA	Water	SM 2320B	
280-137736-13	G0089-20A	Total/NA	Water	SM 2320B	
280-137736-14	G0077-20A	Total/NA	Water	SM 2320B	
280-137736-15	G0078-20A	Total/NA	Water	SM 2320B	
280-137736-16	G0093-20A	Total/NA	Water	SM 2320B	
280-137736-17	G0086-20A	Total/NA	Water	SM 2320B	
MB 280-499387/60	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-499387/58	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-499387/59	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Prep Batch: 499423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-14	G0077-20A	Total/NA	Water	9030B	
MB 280-499423/2-A	Method Blank	Total/NA	Water	9030B	
LCS 280-499423/1-A	Lab Control Sample	Total/NA	Water	9030B	

Analysis Batch: 499425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-14	G0077-20A	Total/NA	Water	9034	499423
MB 280-499423/2-A	Method Blank	Total/NA	Water	9034	499423
LCS 280-499423/1-A	Lab Control Sample	Total/NA	Water	9034	499423

Prep Batch: 499428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-10	PZ020-20A	Total/NA	Water	9030B	
280-137736-11	G0087-20A	Total/NA	Water	9030B	
280-137736-12	G0088-20A	Total/NA	Water	9030B	
280-137736-13	G0089-20A	Total/NA	Water	9030B	
280-137736-15	G0078-20A	Total/NA	Water	9030B	

General Chemistry (Continued)

Prep Batch: 499428 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-499428/2-A	Method Blank	Total/NA	Water	9030B	
LCS 280-499428/1-A	Lab Control Sample	Total/NA	Water	9030B	

Analysis Batch: 499485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-10	PZ020-20A	Total/NA	Water	9034	499428
280-137736-11	G0087-20A	Total/NA	Water	9034	499428
280-137736-12	G0088-20A	Total/NA	Water	9034	499428
280-137736-13	G0089-20A	Total/NA	Water	9034	499428
280-137736-15	G0078-20A	Total/NA	Water	9034	499428
MB 280-499428/2-A	Method Blank	Total/NA	Water	9034	499428
LCS 280-499428/1-A	Lab Control Sample	Total/NA	Water	9034	499428

Analysis Batch: 499605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-6	G0096-20A	Total/NA	Water	SM 2320B	
MB 280-499605/5	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-499605/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Prep Batch: 499634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-3	G0091-20A	Total/NA	Water	9030B	
280-137736-4	G0123-20A	Total/NA	Water	9030B	
280-137736-5	G0122-20A	Total/NA	Water	9030B	
280-137736-6	G0096-20A	Total/NA	Water	9030B	
280-137736-7	G0296-20A	Total/NA	Water	9030B	
280-137736-8	G0092-20A	Total/NA	Water	9030B	
280-137736-9	PZ019-20A	Total/NA	Water	9030B	
280-137736-16	G0093-20A	Total/NA	Water	9030B	
280-137736-17	G0086-20A	Total/NA	Water	9030B	
MB 280-499634/2-A	Method Blank	Total/NA	Water	9030B	
LCS 280-499634/1-A	Lab Control Sample	Total/NA	Water	9030B	
280-137736-9 MS	PZ019-20A	Total/NA	Water	9030B	
280-137736-9 MSD	PZ019-20A	Total/NA	Water	9030B	

Analysis Batch: 499653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-3	G0091-20A	Total/NA	Water	9034	499634
280-137736-4	G0123-20A	Total/NA	Water	9034	499634
280-137736-5	G0122-20A	Total/NA	Water	9034	499634
280-137736-6	G0096-20A	Total/NA	Water	9034	499634
280-137736-7	G0296-20A	Total/NA	Water	9034	499634
280-137736-8	G0092-20A	Total/NA	Water	9034	499634
280-137736-9	PZ019-20A	Total/NA	Water	9034	499634
280-137736-16	G0093-20A	Total/NA	Water	9034	499634
280-137736-17	G0086-20A	Total/NA	Water	9034	499634
MB 280-499634/2-A	Method Blank	Total/NA	Water	9034	499634
LCS 280-499634/1-A	Lab Control Sample	Total/NA	Water	9034	499634
280-137736-9 MS	PZ019-20A	Total/NA	Water	9034	499634
280-137736-9 MSD	PZ019-20A	Total/NA	Water	9034	499634

General Chemistry

Analysis Batch: 499726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-3	G0091-20A	Total/NA	Water	353.2	
280-137736-4	G0123-20A	Total/NA	Water	353.2	
280-137736-5	G0122-20A	Total/NA	Water	353.2	
280-137736-6	G0096-20A	Total/NA	Water	353.2	
280-137736-7	G0296-20A	Total/NA	Water	353.2	
280-137736-8	G0092-20A	Total/NA	Water	353.2	
280-137736-9	PZ019-20A	Total/NA	Water	353.2	
280-137736-10	PZ020-20A	Total/NA	Water	353.2	
280-137736-11	G0087-20A	Total/NA	Water	353.2	
280-137736-12	G0088-20A	Total/NA	Water	353.2	
280-137736-13	G0089-20A	Total/NA	Water	353.2	
280-137736-14	G0077-20A	Total/NA	Water	353.2	
280-137736-15	G0078-20A	Total/NA	Water	353.2	
280-137736-16	G0093-20A	Total/NA	Water	353.2	
280-137736-17	G0086-20A	Total/NA	Water	353.2	
MB 280-499726/104	Method Blank	Total/NA	Water	353.2	
LCS 280-499726/103	Lab Control Sample	Total/NA	Water	353.2	
280-137736-9 MS	PZ019-20A	Total/NA	Water	353.2	
280-137736-9 MSD	PZ019-20A	Total/NA	Water	353.2	

Prep Batch: 499858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-3	G0091-20A	Total/NA	Water	351.2	
280-137736-4	G0123-20A	Total/NA	Water	351.2	
280-137736-5	G0122-20A	Total/NA	Water	351.2	
280-137736-6	G0096-20A	Total/NA	Water	351.2	
280-137736-7	G0296-20A	Total/NA	Water	351.2	
280-137736-8	G0092-20A	Total/NA	Water	351.2	
280-137736-9	PZ019-20A	Total/NA	Water	351.2	
280-137736-10	PZ020-20A	Total/NA	Water	351.2	
280-137736-11	G0087-20A	Total/NA	Water	351.2	
280-137736-12	G0088-20A	Total/NA	Water	351.2	
280-137736-13	G0089-20A	Total/NA	Water	351.2	
280-137736-14	G0077-20A	Total/NA	Water	351.2	
280-137736-15	G0078-20A	Total/NA	Water	351.2	
280-137736-16	G0093-20A	Total/NA	Water	351.2	
280-137736-17	G0086-20A	Total/NA	Water	351.2	
MB 280-499858/2-A	Method Blank	Total/NA	Water	351.2	
LCS 280-499858/1-A	Lab Control Sample	Total/NA	Water	351.2	
280-137736-9 MS	PZ019-20A	Total/NA	Water	351.2	
280-137736-9 MSD	PZ019-20A	Total/NA	Water	351.2	
280-137736-14 MS	G0077-20A	Total/NA	Water	351.2	
280-137736-14 MSD	G0077-20A	Total/NA	Water	351.2	

Analysis Batch: 499929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-3	G0091-20A	Total/NA	Water	350.1	
280-137736-4	G0123-20A	Total/NA	Water	350.1	
280-137736-5	G0122-20A	Total/NA	Water	350.1	
280-137736-6	G0096-20A	Total/NA	Water	350.1	
280-137736-7	G0296-20A	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 499929 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-8	G0092-20A	Total/NA	Water	350.1	
280-137736-9	PZ019-20A	Total/NA	Water	350.1	
280-137736-10	PZ020-20A	Total/NA	Water	350.1	
280-137736-11	G0087-20A	Total/NA	Water	350.1	
280-137736-12	G0088-20A	Total/NA	Water	350.1	
280-137736-13	G0089-20A	Total/NA	Water	350.1	
280-137736-14	G0077-20A	Total/NA	Water	350.1	
280-137736-15	G0078-20A	Total/NA	Water	350.1	
280-137736-16	G0093-20A	Total/NA	Water	350.1	
280-137736-17	G0086-20A	Total/NA	Water	350.1	
MB 280-499929/19	Method Blank	Total/NA	Water	350.1	
LCS 280-499929/18	Lab Control Sample	Total/NA	Water	350.1	
LCSD 280-499929/101	Lab Control Sample Dup	Total/NA	Water	350.1	
280-137736-9 MS	PZ019-20A	Total/NA	Water	350.1	
280-137736-9 MSD	PZ019-20A	Total/NA	Water	350.1	

Analysis Batch: 500036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-3	G0091-20A	Total/NA	Water	351.2	499858
280-137736-4	G0123-20A	Total/NA	Water	351.2	499858
280-137736-5	G0122-20A	Total/NA	Water	351.2	499858
280-137736-6	G0096-20A	Total/NA	Water	351.2	499858
280-137736-7	G0296-20A	Total/NA	Water	351.2	499858
280-137736-8	G0092-20A	Total/NA	Water	351.2	499858
280-137736-9	PZ019-20A	Total/NA	Water	351.2	499858
280-137736-10	PZ020-20A	Total/NA	Water	351.2	499858
280-137736-11	G0087-20A	Total/NA	Water	351.2	499858
280-137736-12	G0088-20A	Total/NA	Water	351.2	499858
280-137736-13	G0089-20A	Total/NA	Water	351.2	499858
280-137736-14	G0077-20A	Total/NA	Water	351.2	499858
280-137736-15	G0078-20A	Total/NA	Water	351.2	499858
280-137736-16	G0093-20A	Total/NA	Water	351.2	499858
280-137736-17	G0086-20A	Total/NA	Water	351.2	499858
MB 280-499858/2-A	Method Blank	Total/NA	Water	351.2	499858
LCS 280-499858/1-A	Lab Control Sample	Total/NA	Water	351.2	499858
280-137736-9 MS	PZ019-20A	Total/NA	Water	351.2	499858
280-137736-9 MSD	PZ019-20A	Total/NA	Water	351.2	499858
280-137736-14 MS	G0077-20A	Total/NA	Water	351.2	499858
280-137736-14 MSD	G0077-20A	Total/NA	Water	351.2	499858

Analysis Batch: 500630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-3	G0091-20A	Total/NA	Water	9056A	
280-137736-4	G0123-20A	Total/NA	Water	9056A	
280-137736-5	G0122-20A	Total/NA	Water	9056A	
280-137736-7	G0296-20A	Total/NA	Water	9056A	
280-137736-8	G0092-20A	Total/NA	Water	9056A	
280-137736-9	PZ019-20A	Total/NA	Water	9056A	
280-137736-10	PZ020-20A	Total/NA	Water	9056A	
280-137736-11	G0087-20A	Total/NA	Water	9056A	
280-137736-13	G0089-20A	Total/NA	Water	9056A	

General Chemistry (Continued)

Analysis Batch: 500630 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-14	G0077-20A	Total/NA	Water	9056A	
280-137736-16	G0093-20A	Total/NA	Water	9056A	
280-137736-17	G0086-20A	Total/NA	Water	9056A	
MB 280-500630/6	Method Blank	Total/NA	Water	9056A	
LCS 280-500630/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 280-500630/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MRL 280-500630/3	Lab Control Sample	Total/NA	Water	9056A	
280-137736-4 MS	G0123-20A	Total/NA	Water	9056A	
280-137736-4 MSD	G0123-20A	Total/NA	Water	9056A	
280-137736-9 MS	PZ019-20A	Total/NA	Water	9056A	
280-137736-9 MSD	PZ019-20A	Total/NA	Water	9056A	
280-137736-4 DU	G0123-20A	Total/NA	Water	9056A	
280-137736-9 DU	PZ019-20A	Total/NA	Water	9056A	

Filtration Batch: 500659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-15	G0078-20A	Dissolved	Water	FILTRATION	
280-137736-16	G0093-20A	Dissolved	Water	FILTRATION	
280-137736-17	G0086-20A	Dissolved	Water	FILTRATION	
MB 280-500659/27-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-500659/25-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-500659/26-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	

Analysis Batch: 500783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-6	G0096-20A	Total/NA	Water	9056A	
280-137736-12	G0088-20A	Total/NA	Water	9056A	
280-137736-15	G0078-20A	Total/NA	Water	9056A	
MB 280-500783/6	Method Blank	Total/NA	Water	9056A	
LCS 280-500783/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 280-500783/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MRL 280-500783/3	Lab Control Sample	Total/NA	Water	9056A	

Analysis Batch: 501126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-15	G0078-20A	Dissolved	Water	9060A	500659
280-137736-16	G0093-20A	Dissolved	Water	9060A	500659
280-137736-17	G0086-20A	Dissolved	Water	9060A	500659
MB 280-500659/27-A	Method Blank	Dissolved	Water	9060A	500659
LCS 280-500659/25-A	Lab Control Sample	Dissolved	Water	9060A	500659
LCSD 280-500659/26-A	Lab Control Sample Dup	Dissolved	Water	9060A	500659

Filtration Batch: 501228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-3	G0091-20A	Dissolved	Water	FILTRATION	
280-137736-4	G0123-20A	Dissolved	Water	FILTRATION	
280-137736-5	G0122-20A	Dissolved	Water	FILTRATION	
280-137736-6	G0096-20A	Dissolved	Water	FILTRATION	
280-137736-7	G0296-20A	Dissolved	Water	FILTRATION	
280-137736-8	G0092-20A	Dissolved	Water	FILTRATION	
280-137736-9	PZ019-20A	Dissolved	Water	FILTRATION	

General Chemistry (Continued)

Filtration Batch: 501228 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-10	PZ020-20A	Dissolved	Water	FILTRATION	
280-137736-11	G0087-20A	Dissolved	Water	FILTRATION	
280-137736-12	G0088-20A	Dissolved	Water	FILTRATION	
280-137736-13	G0089-20A	Dissolved	Water	FILTRATION	
280-137736-14	G0077-20A	Dissolved	Water	FILTRATION	
MB 280-501228/3-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 280-501228/1-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 280-501228/2-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	
280-137736-9 MS	PZ019-20A	Dissolved	Water	FILTRATION	
280-137736-9 MSD	PZ019-20A	Dissolved	Water	FILTRATION	

Analysis Batch: 501318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-137736-3	G0091-20A	Dissolved	Water	9060A	501228
280-137736-4	G0123-20A	Dissolved	Water	9060A	501228
280-137736-5	G0122-20A	Dissolved	Water	9060A	501228
280-137736-6	G0096-20A	Dissolved	Water	9060A	501228
280-137736-7	G0296-20A	Dissolved	Water	9060A	501228
280-137736-8	G0092-20A	Dissolved	Water	9060A	501228
280-137736-9	PZ019-20A	Dissolved	Water	9060A	501228
280-137736-10	PZ020-20A	Dissolved	Water	9060A	501228
280-137736-11	G0087-20A	Dissolved	Water	9060A	501228
280-137736-12	G0088-20A	Dissolved	Water	9060A	501228
280-137736-13	G0089-20A	Dissolved	Water	9060A	501228
280-137736-14	G0077-20A	Dissolved	Water	9060A	501228
MB 280-501228/3-A	Method Blank	Dissolved	Water	9060A	501228
LCS 280-501228/1-A	Lab Control Sample	Dissolved	Water	9060A	501228
LCSD 280-501228/2-A	Lab Control Sample Dup	Dissolved	Water	9060A	501228
280-137736-9 MS	PZ019-20A	Dissolved	Water	9060A	501228
280-137736-9 MSD	PZ019-20A	Dissolved	Water	9060A	501228

Client Sample ID: WC-Q3-JUNE20

Lab Sample ID: 280-137736-1

Date Collected: 06/16/20 17:30

Matrix: Water

Date Received: 06/17/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	499912	06/24/20 17:07	JLS	TAL DEN
Total/NA	Prep	3535			475.3 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			500326	06/26/20 21:29	JZ	TAL DEN
Total/NA	Prep	3535			475.3 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			499988	06/24/20 18:57	JZ	TAL DEN

Client Sample ID: TB03-061620

Lab Sample ID: 280-137736-2

Date Collected: 06/16/20 17:00

Matrix: Water

Date Received: 06/17/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	499912	06/24/20 17:29	JLS	TAL DEN

Client Sample ID: G0091-20A

Lab Sample ID: 280-137736-3

Date Collected: 06/16/20 09:35

Matrix: Water

Date Received: 06/17/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	500092	06/25/20 13:55	GPM	TAL DEN
Total/NA	Prep	3535			472.2 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			500326	06/26/20 22:04	JZ	TAL DEN
Total/NA	Prep	3535			472.2 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			499988	06/24/20 19:20	JZ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	499929	06/23/20 12:05	BWH	TAL DEN
Total/NA	Prep	351.2			25 mL	25 mL	499858	06/23/20 16:29	SVC	TAL DEN
Total/NA	Analysis	351.2		1			500036	06/24/20 18:44	SVC	TAL DEN
Total/NA	Analysis	353.2		25	100 mL	100 mL	499726	06/22/20 20:12	SVC	TAL DEN
Total/NA	Prep	9030B			50 mL	50 mL	499634	06/22/20 10:42	SAH	TAL DEN
Total/NA	Analysis	9034		1			499653	06/22/20 12:04	SAH	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	500630	06/30/20 22:05	JAP	TAL DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	501228	07/06/20 16:04	JMB	TAL DEN
Dissolved	Analysis	9060A		1	20 mL	20 mL	501318	07/07/20 02:55	JMB	TAL DEN
Total/NA	Analysis	SM 2320B		1			499387	06/18/20 18:06	RAF	TAL DEN

Client Sample ID: G0123-20A

Lab Sample ID: 280-137736-4

Date Collected: 06/16/20 13:20

Matrix: Water

Date Received: 06/17/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	500092	06/25/20 14:08	GPM	TAL DEN
Total/NA	Prep	3535			460.6 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			500326	06/26/20 22:39	JZ	TAL DEN
Total/NA	Prep	3535	DL		460.6 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A	DL	20			500326	06/26/20 23:14	JZ	TAL DEN

Client Sample ID: G0123-20A
Lab Sample ID: 280-137736-4

Date Collected: 06/16/20 13:20
Matrix: Water
Date Received: 06/17/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			460.6 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			499988	06/24/20 19:43	JZ	TAL DEN
Total/NA	Prep	3535	DL		460.6 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A	DL	20			500316	06/26/20 18:21	JZ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	499929	06/23/20 12:07	BWH	TAL DEN
Total/NA	Prep	351.2			25 mL	25 mL	499858	06/23/20 16:29	SVC	TAL DEN
Total/NA	Analysis	351.2		1			500036	06/24/20 18:45	SVC	TAL DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	499726	06/22/20 20:14	SVC	TAL DEN
Total/NA	Prep	9030B			50 mL	50 mL	499634	06/22/20 10:42	SAH	TAL DEN
Total/NA	Analysis	9034		1			499653	06/22/20 12:04	SAH	TAL DEN
Total/NA	Analysis	9056A		5	5 mL	5 mL	500630	06/30/20 22:22	JAP	TAL DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	501228	07/06/20 16:04	JMB	TAL DEN
Dissolved	Analysis	9060A		1	20 mL	20 mL	501318	07/07/20 03:17	JMB	TAL DEN
Total/NA	Analysis	SM 2320B		1			499387	06/18/20 18:13	RAF	TAL DEN

Client Sample ID: G0122-20A
Lab Sample ID: 280-137736-5

Date Collected: 06/16/20 11:55
Matrix: Water
Date Received: 06/17/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	500092	06/25/20 14:20	GPM	TAL DEN
Total/NA	Prep	3535			473 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			500326	06/26/20 23:49	JZ	TAL DEN
Total/NA	Prep	3535			473 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			499988	06/24/20 20:06	JZ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	499929	06/23/20 12:09	BWH	TAL DEN
Total/NA	Prep	351.2			25 mL	25 mL	499858	06/23/20 16:29	SVC	TAL DEN
Total/NA	Analysis	351.2		1			500036	06/24/20 18:49	SVC	TAL DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	499726	06/22/20 20:28	SVC	TAL DEN
Total/NA	Prep	9030B			50 mL	50 mL	499634	06/22/20 10:42	SAH	TAL DEN
Total/NA	Analysis	9034		1			499653	06/22/20 12:04	SAH	TAL DEN
Total/NA	Analysis	9056A		5	5 mL	5 mL	500630	07/01/20 00:00	JAP	TAL DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	501228	07/06/20 16:04	JMB	TAL DEN
Dissolved	Analysis	9060A		1	20 mL	20 mL	501318	07/07/20 03:40	JMB	TAL DEN
Total/NA	Analysis	SM 2320B		1			499387	06/18/20 18:20	RAF	TAL DEN

Client Sample ID: G0096-20A
Lab Sample ID: 280-137736-6

Date Collected: 06/16/20 09:40
Matrix: Water
Date Received: 06/17/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	500092	06/25/20 14:32	GPM	TAL DEN
Total/NA	Prep	3535			463.2 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			500326	06/27/20 00:24	JZ	TAL DEN

Client Sample ID: G0096-20A
Lab Sample ID: 280-137736-6

Date Collected: 06/16/20 09:40
Matrix: Water
Date Received: 06/17/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535	DL		463.2 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A	DL	10			500326	06/27/20 00:59	JZ	TAL DEN
Total/NA	Prep	3535			463.2 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			499988	06/24/20 20:29	JZ	TAL DEN
Total/NA	Prep	3535	DL		463.2 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A	DL	10			500316	06/26/20 18:44	JZ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	499929	06/23/20 12:23	BWH	TAL DEN
Total/NA	Prep	351.2			25 mL	25 mL	499858	06/23/20 16:29	SVC	TAL DEN
Total/NA	Analysis	351.2		1			500036	06/24/20 18:50	SVC	TAL DEN
Total/NA	Analysis	353.2		20	100 mL	100 mL	499726	06/22/20 20:30	SVC	TAL DEN
Total/NA	Prep	9030B			50 mL	50 mL	499634	06/22/20 10:42	SAH	TAL DEN
Total/NA	Analysis	9034		1			499653	06/22/20 12:04	SAH	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	500783	07/01/20 16:54	JAP	TAL DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	501228	07/06/20 16:04	JMB	TAL DEN
Dissolved	Analysis	9060A		1	20 mL	20 mL	501318	07/07/20 04:02	JMB	TAL DEN
Total/NA	Analysis	SM 2320B		1			499605	06/19/20 14:44	RAF	TAL DEN

Client Sample ID: G0296-20A
Lab Sample ID: 280-137736-7

Date Collected: 06/16/20 08:00
Matrix: Water
Date Received: 06/17/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	500092	06/25/20 14:45	GPM	TAL DEN
Total/NA	Prep	3535			470.3 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			500326	06/27/20 02:44	JZ	TAL DEN
Total/NA	Prep	3535	DL		470.3 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A	DL	10			500326	06/27/20 03:19	JZ	TAL DEN
Total/NA	Prep	3535			470.3 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			499988	06/24/20 20:52	JZ	TAL DEN
Total/NA	Prep	3535	DL		470.3 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A	DL	10			500316	06/26/20 19:07	JZ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	499929	06/23/20 12:25	BWH	TAL DEN
Total/NA	Prep	351.2			25 mL	25 mL	499858	06/23/20 16:29	SVC	TAL DEN
Total/NA	Analysis	351.2		1			500036	06/24/20 18:51	SVC	TAL DEN
Total/NA	Analysis	353.2		20	100 mL	100 mL	499726	06/22/20 20:32	SVC	TAL DEN
Total/NA	Prep	9030B			50 mL	50 mL	499634	06/22/20 10:42	SAH	TAL DEN
Total/NA	Analysis	9034		1			499653	06/22/20 12:04	SAH	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	500630	07/01/20 00:16	JAP	TAL DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	501228	07/06/20 16:04	JMB	TAL DEN
Dissolved	Analysis	9060A		1	20 mL	20 mL	501318	07/07/20 05:19	JMB	TAL DEN
Total/NA	Analysis	SM 2320B		1			499387	06/18/20 18:26	RAF	TAL DEN

Client Sample ID: G0092-20A
Lab Sample ID: 280-137736-8

Date Collected: 06/16/20 10:40
Matrix: Water
Date Received: 06/17/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	500092	06/25/20 14:57	GPM	TAL DEN
Total/NA	Prep	3535			475.4 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			500326	06/27/20 03:54	JZ	TAL DEN
Total/NA	Prep	3535			475.4 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			499988	06/24/20 22:01	JZ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	499929	06/23/20 12:33	BWH	TAL DEN
Total/NA	Prep	351.2			25 mL	25 mL	499858	06/23/20 16:29	SVC	TAL DEN
Total/NA	Analysis	351.2		1			500036	06/24/20 18:52	SVC	TAL DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	499726	06/22/20 20:34	SVC	TAL DEN
Total/NA	Prep	9030B			50 mL	50 mL	499634	06/22/20 10:42	SAH	TAL DEN
Total/NA	Analysis	9034		1			499653	06/22/20 12:04	SAH	TAL DEN
Total/NA	Analysis	9056A		5	5 mL	5 mL	500630	07/01/20 00:33	JAP	TAL DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	501228	07/06/20 16:04	JMB	TAL DEN
Dissolved	Analysis	9060A		1	20 mL	20 mL	501318	07/07/20 05:42	JMB	TAL DEN
Total/NA	Analysis	SM 2320B		1			499387	06/18/20 18:33	RAF	TAL DEN

Client Sample ID: PZ019-20A
Lab Sample ID: 280-137736-9

Date Collected: 06/16/20 12:00
Matrix: Water
Date Received: 06/17/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	500092	06/25/20 13:06	GPM	TAL DEN
Total/NA	Prep	3535			476 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			499988	06/24/20 22:24	JZ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	499929	06/23/20 12:27	BWH	TAL DEN
Total/NA	Prep	351.2			25 mL	25 mL	499858	06/23/20 16:29	SVC	TAL DEN
Total/NA	Analysis	351.2		1			500036	06/24/20 18:39	SVC	TAL DEN
Total/NA	Analysis	353.2		5	100 mL	100 mL	499726	06/22/20 20:36	SVC	TAL DEN
Total/NA	Prep	9030B			50 mL	50 mL	499634	06/22/20 10:42	SAH	TAL DEN
Total/NA	Analysis	9034		1			499653	06/22/20 12:04	SAH	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	500630	07/01/20 00:49	JAP	TAL DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	501228	07/06/20 16:04	JMB	TAL DEN
Dissolved	Analysis	9060A		1	20 mL	20 mL	501318	07/07/20 06:04	JMB	TAL DEN
Total/NA	Analysis	SM 2320B		1			499387	06/18/20 18:38	RAF	TAL DEN

Client Sample ID: PZ020-20A
Lab Sample ID: 280-137736-10

Date Collected: 06/15/20 15:40
Matrix: Water
Date Received: 06/17/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	500092	06/25/20 15:21	GPM	TAL DEN
Total/NA	Prep	3535			480.5 mL	5 mL	499406	06/19/20 15:47	KSA	TAL DEN
Total/NA	Analysis	8330A		1			500327	06/27/20 15:36	JZ	TAL DEN

Client Sample ID: PZ020-20A
Lab Sample ID: 280-137736-10

Date Collected: 06/15/20 15:40
Matrix: Water
Date Received: 06/17/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535	RE		464.8 mL	5 mL	500616	06/30/20 12:07	MLA	TAL DEN
Total/NA	Analysis	8330A	RE	1			500847	07/02/20 02:26	JZ	TAL DEN
Total/NA	Prep	3535			480.5 mL	5 mL	499406	06/19/20 15:47	KSA	TAL DEN
Total/NA	Analysis	8330A		1			499989	06/25/20 08:22	JZ	TAL DEN
Total/NA	Prep	3535	RE		464.8 mL	5 mL	500616	06/30/20 12:07	MLA	TAL DEN
Total/NA	Analysis	8330A	RE	1			500691	07/01/20 02:46	JZ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	499929	06/23/20 12:35	BWH	TAL DEN
Total/NA	Prep	351.2			25 mL	25 mL	499858	06/23/20 16:29	SVC	TAL DEN
Total/NA	Analysis	351.2		1			500036	06/24/20 18:54	SVC	TAL DEN
Total/NA	Analysis	353.2		20	100 mL	100 mL	499726	06/22/20 20:42	SVC	TAL DEN
Total/NA	Prep	9030B			50 mL	50 mL	499428	06/19/20 12:59	SAH	TAL DEN
Total/NA	Analysis	9034		1			499485	06/19/20 17:04	BWH	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	500630	07/01/20 01:55	JAP	TAL DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	501228	07/06/20 16:04	JMB	TAL DEN
Dissolved	Analysis	9060A		1	20 mL	20 mL	501318	07/07/20 07:13	JMB	TAL DEN
Total/NA	Analysis	SM 2320B		1			499387	06/18/20 18:44	RAF	TAL DEN

Client Sample ID: G0087-20A
Lab Sample ID: 280-137736-11

Date Collected: 06/15/20 16:40
Matrix: Water
Date Received: 06/17/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	500092	06/25/20 15:46	GPM	TAL DEN
Total/NA	Prep	3535			465.6 mL	5 mL	499406	06/19/20 15:47	KSA	TAL DEN
Total/NA	Analysis	8330A		1			500327	06/27/20 16:10	JZ	TAL DEN
Total/NA	Prep	3535	RE		469 mL	5 mL	500616	06/30/20 12:07	MLA	TAL DEN
Total/NA	Analysis	8330A	RE	1			500847	07/02/20 03:01	JZ	TAL DEN
Total/NA	Prep	3535			465.6 mL	5 mL	499406	06/19/20 15:47	KSA	TAL DEN
Total/NA	Analysis	8330A		1			499989	06/25/20 08:45	JZ	TAL DEN
Total/NA	Prep	3535	RE		469 mL	5 mL	500616	06/30/20 12:07	MLA	TAL DEN
Total/NA	Analysis	8330A	RE	1			500691	07/01/20 03:09	JZ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	499929	06/23/20 12:37	BWH	TAL DEN
Total/NA	Prep	351.2			25 mL	25 mL	499858	06/23/20 16:29	SVC	TAL DEN
Total/NA	Analysis	351.2		1			500036	06/24/20 18:59	SVC	TAL DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	499726	06/22/20 20:44	SVC	TAL DEN
Total/NA	Prep	9030B			50 mL	50 mL	499428	06/19/20 12:59	SAH	TAL DEN
Total/NA	Analysis	9034		1			499485	06/19/20 17:04	BWH	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	500630	07/01/20 02:11	JAP	TAL DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	501228	07/06/20 16:04	JMB	TAL DEN
Dissolved	Analysis	9060A		1	20 mL	20 mL	501318	07/07/20 07:35	JMB	TAL DEN
Total/NA	Analysis	SM 2320B		1			499387	06/18/20 18:51	RAF	TAL DEN

Client Sample ID: G0088-20A

Date Collected: 06/15/20 13:40
Date Received: 06/17/20 09:20

Lab Sample ID: 280-137736-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	500092	06/25/20 15:58	GPM	TAL DEN
Total/NA	Prep	3535			478.7 mL	5 mL	499406	06/19/20 15:47	KSA	TAL DEN
Total/NA	Analysis	8330A		1			500327	06/27/20 16:45	JZ	TAL DEN
Total/NA	Prep	3535	RE		473.8 mL	5 mL	500616	06/30/20 12:07	MLA	TAL DEN
Total/NA	Analysis	8330A	RE	1			500847	07/02/20 03:36	JZ	TAL DEN
Total/NA	Prep	3535			478.7 mL	5 mL	499406	06/19/20 15:47	KSA	TAL DEN
Total/NA	Analysis	8330A		1			499989	06/25/20 09:08	JZ	TAL DEN
Total/NA	Prep	3535	RE		473.8 mL	5 mL	500616	06/30/20 12:07	MLA	TAL DEN
Total/NA	Analysis	8330A	RE	1			500691	07/01/20 03:32	JZ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	499929	06/23/20 12:39	BWH	TAL DEN
Total/NA	Prep	351.2			25 mL	25 mL	499858	06/23/20 16:29	SVC	TAL DEN
Total/NA	Analysis	351.2		1			500036	06/24/20 19:00	SVC	TAL DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	499726	06/22/20 20:46	SVC	TAL DEN
Total/NA	Prep	9030B			50 mL	50 mL	499428	06/19/20 12:59	SAH	TAL DEN
Total/NA	Analysis	9034		1			499485	06/19/20 17:04	BWH	TAL DEN
Total/NA	Analysis	9056A		5	5 mL	5 mL	500783	07/01/20 17:26	JAP	TAL DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	501228	07/06/20 16:04	JMB	TAL DEN
Dissolved	Analysis	9060A		1	20 mL	20 mL	501318	07/07/20 07:58	JMB	TAL DEN
Total/NA	Analysis	SM 2320B		1			499387	06/18/20 19:08	RAF	TAL DEN

Client Sample ID: G0089-20A

Date Collected: 06/15/20 15:20
Date Received: 06/17/20 09:20

Lab Sample ID: 280-137736-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	500092	06/25/20 16:10	GPM	TAL DEN
Total/NA	Prep	3535			476.4 mL	5 mL	499406	06/19/20 15:47	KSA	TAL DEN
Total/NA	Analysis	8330A		1			500327	06/27/20 17:20	JZ	TAL DEN
Total/NA	Prep	3535	RE		466.2 mL	5 mL	500616	06/30/20 12:07	MLA	TAL DEN
Total/NA	Analysis	8330A	RE	1			500847	07/02/20 04:11	JZ	TAL DEN
Total/NA	Prep	3535			476.4 mL	5 mL	499406	06/19/20 15:47	KSA	TAL DEN
Total/NA	Analysis	8330A		1			499989	06/25/20 09:31	JZ	TAL DEN
Total/NA	Prep	3535	RE		466.2 mL	5 mL	500616	06/30/20 12:07	MLA	TAL DEN
Total/NA	Analysis	8330A	RE	1			500691	07/01/20 03:54	JZ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	499929	06/23/20 12:41	BWH	TAL DEN
Total/NA	Prep	351.2			25 mL	25 mL	499858	06/23/20 16:29	SVC	TAL DEN
Total/NA	Analysis	351.2		1			500036	06/24/20 19:09	SVC	TAL DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	499726	06/22/20 21:00	SVC	TAL DEN
Total/NA	Prep	9030B			50 mL	50 mL	499428	06/19/20 12:59	SAH	TAL DEN
Total/NA	Analysis	9034		1			499485	06/19/20 17:04	BWH	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	500630	07/01/20 03:17	JAP	TAL DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	501228	07/06/20 16:04	JMB	TAL DEN
Dissolved	Analysis	9060A		1	20 mL	20 mL	501318	07/07/20 08:20	JMB	TAL DEN

Client Sample ID: G0089-20A
Lab Sample ID: 280-137736-13

Date Collected: 06/15/20 15:20
Matrix: Water
Date Received: 06/17/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1			499387	06/18/20 19:14	RAF	TAL DEN

Client Sample ID: G0077-20A
Lab Sample ID: 280-137736-14

Date Collected: 06/15/20 13:20
Matrix: Water
Date Received: 06/17/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	500092	06/25/20 16:22	GPM	TAL DEN
Total/NA	Prep	3535			474.2 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			500326	06/27/20 04:29	JZ	TAL DEN
Total/NA	Prep	3535			474.2 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			499988	06/25/20 00:19	JZ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	499929	06/23/20 12:55	BWH	TAL DEN
Total/NA	Prep	351.2			25 mL	25 mL	499858	06/23/20 16:29	SVC	TAL DEN
Total/NA	Analysis	351.2		1			500036	06/24/20 19:04	SVC	TAL DEN
Total/NA	Analysis	353.2		10	100 mL	100 mL	499726	06/22/20 21:02	SVC	TAL DEN
Total/NA	Prep	9030B			50 mL	50 mL	499423	06/19/20 12:52	SAH	TAL DEN
Total/NA	Analysis	9034		1			499425	06/19/20 12:54	BWH	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	500630	07/01/20 03:33	JAP	TAL DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	501228	07/06/20 16:04	JMB	TAL DEN
Dissolved	Analysis	9060A		1	20 mL	20 mL	501318	07/07/20 08:42	JMB	TAL DEN
Total/NA	Analysis	SM 2320B		1			499387	06/18/20 19:21	RAF	TAL DEN

Client Sample ID: G0078-20A
Lab Sample ID: 280-137736-15

Date Collected: 06/15/20 14:30
Matrix: Water
Date Received: 06/17/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	500092	06/25/20 16:35	GPM	TAL DEN
Total/NA	Prep	3535			474.2 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			499988	06/25/20 00:42	JZ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	499929	06/23/20 12:57	BWH	TAL DEN
Total/NA	Prep	351.2			25 mL	25 mL	499858	06/23/20 16:29	SVC	TAL DEN
Total/NA	Analysis	351.2		1			500036	06/24/20 19:10	SVC	TAL DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	499726	06/22/20 21:04	SVC	TAL DEN
Total/NA	Prep	9030B			50 mL	50 mL	499428	06/19/20 12:59	SAH	TAL DEN
Total/NA	Analysis	9034		1			499485	06/19/20 17:04	BWH	TAL DEN
Total/NA	Analysis	9056A		5	5 mL	5 mL	500783	07/01/20 17:43	JAP	TAL DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	500659	06/30/20 12:40	SGB	TAL DEN
Dissolved	Analysis	9060A		1	20 mL	20 mL	501126	07/03/20 13:51	JMB	TAL DEN
Total/NA	Analysis	SM 2320B		1			499387	06/18/20 19:27	RAF	TAL DEN

Lab Chronicle

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137736-1

Client Sample ID: G0093-20A

Date Collected: 06/16/20 08:25
Date Received: 06/17/20 09:20

Lab Sample ID: 280-137736-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	500092	06/25/20 16:47	GPM	TAL DEN
Total/NA	Prep	3535			466.1 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			500326	06/27/20 05:04	JZ	TAL DEN
Total/NA	Prep	3535			466.1 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			500316	06/26/20 19:30	JZ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	499929	06/23/20 12:59	BWH	TAL DEN
Total/NA	Prep	351.2			25 mL	25 mL	499858	06/23/20 16:29	SVC	TAL DEN
Total/NA	Analysis	351.2		1			500036	06/24/20 19:11	SVC	TAL DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	499726	06/22/20 21:06	SVC	TAL DEN
Total/NA	Prep	9030B			50 mL	50 mL	499634	06/22/20 10:42	SAH	TAL DEN
Total/NA	Analysis	9034		1			499653	06/22/20 12:04	SAH	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	500630	07/01/20 04:06	JAP	TAL DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	500659	06/30/20 12:40	SGB	TAL DEN
Dissolved	Analysis	9060A		1	20 mL	20 mL	501126	07/03/20 14:13	JMB	TAL DEN
Total/NA	Analysis	SM 2320B		1			499387	06/18/20 19:33	RAF	TAL DEN

Client Sample ID: G0086-20A

Date Collected: 06/16/20 08:15
Date Received: 06/17/20 09:20

Lab Sample ID: 280-137736-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	18 mL	18 mL	500092	06/25/20 16:59	GPM	TAL DEN
Total/NA	Prep	3535			476.2 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			500326	06/27/20 05:39	JZ	TAL DEN
Total/NA	Prep	3535			476.2 mL	5 mL	499527	06/20/20 17:13	KSA	TAL DEN
Total/NA	Analysis	8330A		1			499988	06/25/20 01:28	JZ	TAL DEN
Total/NA	Analysis	350.1		1	10 mL	10 mL	499929	06/23/20 13:01	BWH	TAL DEN
Total/NA	Prep	351.2			25 mL	25 mL	499858	06/23/20 16:29	SVC	TAL DEN
Total/NA	Analysis	351.2		1			500036	06/24/20 19:12	SVC	TAL DEN
Total/NA	Analysis	353.2		1	100 mL	100 mL	499726	06/22/20 21:08	SVC	TAL DEN
Total/NA	Prep	9030B			50 mL	50 mL	499634	06/22/20 10:42	SAH	TAL DEN
Total/NA	Analysis	9034		1			499653	06/22/20 12:04	SAH	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	500630	07/01/20 04:23	JAP	TAL DEN
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	500659	06/30/20 12:40	SGB	TAL DEN
Dissolved	Analysis	9060A		1	20 mL	20 mL	501126	07/03/20 14:36	JMB	TAL DEN
Total/NA	Analysis	SM 2320B		1			499387	06/18/20 19:39	RAF	TAL DEN

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: Brice Environmental Services, Corp
Job ID: 280-137736-1
Project/Site: Cornhusker (CHAAP)

Laboratory: Eurofins TestAmerica, Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-21

Method Summary

Client: Brice Environmental Services, Corp
Job ID: 280-137736-1
Project/Site: Cornhusker (CHAAP)

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN
RSK-175	Dissolved Gases (GC)	RSK	TAL DEN
8330A	Nitroaromatics and Nitramines (HPLC)	EPA	TAL DEN
350.1	Nitrogen, Ammonia	MCAWW	TAL DEN
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL DEN
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL DEN
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	TAL DEN
9060A	Organic Carbon, Dissolved (DOC)	SW846	TAL DEN
SM 2320B	Alkalinity	SM	TAL DEN
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL DEN
3535	Solid-Phase Extraction (SPE)	SW846	TAL DEN
5030B	Purge and Trap	SW846	TAL DEN
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	TAL DEN
FILTRATION	Sample Filtration	None	TAL DEN

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Brice Environmental Services, Corp
Project/Site: Cornhusker (CHAAP)

Job ID: 280-137736-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
280-137736-1	WC-Q3-JUNE20	Water	06/16/20 17:30	06/17/20 09:20	
280-137736-2	TB03-061620	Water	06/16/20 17:00	06/17/20 09:20	
280-137736-3	G0091-20A	Water	06/16/20 09:35	06/17/20 09:20	
280-137736-4	G0123-20A	Water	06/16/20 13:20	06/17/20 09:20	
280-137736-5	G0122-20A	Water	06/16/20 11:55	06/17/20 09:20	
280-137736-6	G0096-20A	Water	06/16/20 09:40	06/17/20 09:20	
280-137736-7	G0296-20A	Water	06/16/20 08:00	06/17/20 09:20	
280-137736-8	G0092-20A	Water	06/16/20 10:40	06/17/20 09:20	
280-137736-9	PZ019-20A	Water	06/16/20 12:00	06/17/20 09:20	
280-137736-10	PZ020-20A	Water	06/15/20 15:40	06/17/20 09:20	
280-137736-11	G0087-20A	Water	06/15/20 16:40	06/17/20 09:20	
280-137736-12	G0088-20A	Water	06/15/20 13:40	06/17/20 09:20	
280-137736-13	G0089-20A	Water	06/15/20 15:20	06/17/20 09:20	
280-137736-14	G0077-20A	Water	06/15/20 13:20	06/17/20 09:20	
280-137736-15	G0078-20A	Water	06/15/20 14:30	06/17/20 09:20	
280-137736-16	G0093-20A	Water	06/16/20 08:25	06/17/20 09:20	
280-137736-17	G0086-20A	Water	06/16/20 08:15	06/17/20 09:20	

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: VMS_P Analysis Batch Number: 496958

Lab Sample ID: STD005 280-496958/12 IC Client Sample ID:

Date Analyzed: 06/01/20 16:26 Lab File ID: P1658.D GC Column: DB-624 (60.25 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.67	Assign Peak	seifertj	06/02/20 08:03
Chloromethane	1.84	Assign Peak	seifertj	06/02/20 08:03
Bromomethane	2.24	Assign Peak	seifertj	06/02/20 08:03
Acetone	2.96	Assign Peak	seifertj	06/02/20 08:04
Iodomethane	3.08	Assign Peak	seifertj	06/02/20 08:04
Carbon disulfide	3.13	Assign Peak	seifertj	06/02/20 08:04
Methylene Chloride	3.31	Assign Peak	seifertj	06/02/20 08:04
trans-1,2-Dichloroethene	3.52	Invalid Compound ID	ornelasg	06/01/20 21:43
Bromochloromethane	4.43	Invalid Compound ID	ornelasg	06/01/20 21:43
1,2-Dichloroethane	4.92	Invalid Compound ID	ornelasg	06/01/20 21:53
Trichloroethene	5.39	Invalid Compound ID	ornelasg	06/01/20 21:43
Methylcyclohexane	5.59	Invalid Compound ID	ornelasg	06/01/20 21:43
Dibromomethane	5.67	Invalid Compound ID	ornelasg	06/01/20 21:43
Ethylene Dibromide	7.24	Invalid Compound ID	ornelasg	06/01/20 21:43
1-Chlorohexane	7.63	Invalid Compound ID	ornelasg	06/01/20 21:54
Chlorobenzene	7.68	Invalid Compound ID	ornelasg	06/01/20 21:43
Ethylbenzene	7.75	Invalid Compound ID	ornelasg	06/01/20 21:43
Bromobenzene	8.89	Invalid Compound ID	ornelasg	06/01/20 21:44
4-Chlorotoluene	9.19	Invalid Compound ID	ornelasg	06/01/20 21:44
1,3-Dichlorobenzene	9.80	Invalid Compound ID	ornelasg	06/01/20 21:44
1,4-Dichlorobenzene	9.90	Invalid Compound ID	ornelasg	06/01/20 21:44
1,2,4-Trichlorobenzene	11.87	Invalid Compound ID	ornelasg	06/01/20 21:44
Hexachlorobutadiene	12.00	Invalid Compound ID	ornelasg	06/01/20 21:44
1,2,3-Trichlorobenzene	12.35	Invalid Compound ID	ornelasg	06/01/20 21:44

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: VMS_P Analysis Batch Number: 496958

Lab Sample ID: STD010 280-496958/13 IC Client Sample ID:

Date Analyzed: 06/01/20 16:47 Lab File ID: P1659.D GC Column: DB-624 (60.25 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.84	Invalid Compound ID	ornelasg	06/01/20 21:04
Acetone	2.96	Invalid Compound ID	ornelasg	06/01/20 21:52

Lab Sample ID: STD020 280-496958/14 IC Client Sample ID:

Date Analyzed: 06/01/20 17:09 Lab File ID: P1660.D GC Column: DB-624 (60.25 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Iodomethane	3.07	Peak Tail	seifertj	06/02/20 09:06

Lab Sample ID: STD100 280-496958/19 IC Client Sample ID:

Date Analyzed: 06/01/20 18:55 Lab File ID: P1665.D GC Column: DB-624 (60.25 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.22	Invalid Compound ID	ornelasg	06/01/20 21:04

Lab Sample ID: STD200 280-496958/20 IC Client Sample ID:

Date Analyzed: 06/01/20 19:16 Lab File ID: P1666.D GC Column: DB-624 (60.25 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.21	Invalid Compound ID	ornelasg	06/01/20 21:04

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: VGC_J Analysis Batch Number: 499937

Lab Sample ID: IC 280-499937/1 Client Sample ID:

Date Analyzed: 06/24/20 10:08 Lab File ID: 06242001.D GC Column: Rt-Alumina KC ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	4.27	Peak not integrated	meierg	06/24/20 11:04

Lab Sample ID: IC 280-499937/1 Client Sample ID:

Date Analyzed: 06/24/20 10:08 Lab File ID: 06242001.D GC Column: HP-Plot Q ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylene	2.37	Shouldering	meierg	06/24/20 11:03
Acetylene	2.49	Peak not integrated	meierg	06/24/20 11:03

Lab Sample ID: IC 280-499937/2 Client Sample ID:

Date Analyzed: 06/24/20 10:20 Lab File ID: 06242002.D GC Column: HP-Plot Q ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	2.49	Shouldering	meierg	06/24/20 11:05

Lab Sample ID: IC 280-499937/3 Client Sample ID:

Date Analyzed: 06/24/20 10:33 Lab File ID: 06242003.D GC Column: HP-Plot Q ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	2.49	Shouldering	meierg	06/24/20 11:08

Lab Sample ID: ICRT 280-499937/4 Client Sample ID:

Date Analyzed: 06/24/20 10:45 Lab File ID: 06242004.D GC Column: HP-Plot Q ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	2.49	Shouldering	meierg	06/24/20 11:01

RSK-175

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: VGC_J Analysis Batch Number: 499937

Lab Sample ID: IC 280-499937/5 Client Sample ID:

Date Analyzed: 06/24/20 10:57 Lab File ID: 06242005.D GC Column: HP-Plot Q ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	2.49	Shouldering	meierg	06/24/20 11:09

Lab Sample ID: IC 280-499937/6 Client Sample ID:

Date Analyzed: 06/24/20 11:09 Lab File ID: 06242006.D GC Column: Rt-Alumina KC ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	4.22	Peak not integrated	meierg	06/24/20 11:22

Lab Sample ID: IC 280-499937/6 Client Sample ID:

Date Analyzed: 06/24/20 11:09 Lab File ID: 06242006.D GC Column: HP-Plot Q ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	2.49	Peak not integrated	meierg	06/24/20 11:22

Lab Sample ID: ICV 280-499937/11 Client Sample ID:

Date Analyzed: 06/24/20 12:11 Lab File ID: 06242011.D GC Column: HP-Plot Q ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	2.48	Shouldering	meierg	06/24/20 12:29

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: VGC_J Analysis Batch Number: 500092

Lab Sample ID: CCVRT 280-500092/1 Client Sample ID:

Date Analyzed: 06/25/20 11:33 Lab File ID: 06252001.D GC Column: Rt-Alumina KC ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetylene	4.23	Peak not integrated	meierg	06/25/20 11:50

Lab Sample ID: CCVRT 280-500092/1 Client Sample ID:

Date Analyzed: 06/25/20 11:33 Lab File ID: 06252001.D GC Column: HP-Plot Q ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylene	2.38	Shouldering	meierg	06/25/20 11:49
Acetylene	2.50	Peak not integrated	meierg	06/25/20 11:50
Ethane	2.77	Split Peak	meierg	06/25/20 11:49

Lab Sample ID: 280-137736-4 Client Sample ID: G0123-20A

Date Analyzed: 06/25/20 14:08 Lab File ID: 06252013.D GC Column: Rt-Alumina KC ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	1.16	Peak not integrated	meierg	06/25/20 14:53

Lab Sample ID: 280-137736-4 Client Sample ID: G0123-20A

Date Analyzed: 06/25/20 14:08 Lab File ID: 06252013.D GC Column: HP-Plot Q ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	1.55	Peak not integrated	meierg	06/25/20 14:53

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: VGC_J Analysis Batch Number: 500092

Lab Sample ID: CCV 280-500092/18 Client Sample ID:

Date Analyzed: 06/25/20 15:09 Lab File ID: 06252018.D GC Column: HP-Plot Q ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylene	0.00	Shouldering	meierg	06/25/20 15:21
Acetylene	2.49	Shouldering	meierg	06/25/20 15:21

Lab Sample ID: CCV 280-500092/30 Client Sample ID:

Date Analyzed: 06/25/20 17:36 Lab File ID: 06252030.D GC Column: HP-Plot Q ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethylene	0.00	Shouldering	meierg	06/25/20 20:02
Acetylene	2.49	Shouldering	meierg	06/25/20 20:02

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 494886

Lab Sample ID: IC 280-494886/7 Client Sample ID:

Date Analyzed: 05/14/20 16:16 Lab File ID: 05140007.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene	16.48	Split Peak	zhangji	05/14/20 17:09
4-Nitrotoluene	16.72	Split Peak	zhangji	05/14/20 17:09
4-Amino-2,6-dinitrotoluene	17.07	Split Peak	zhangji	05/14/20 17:08
3-Nitrotoluene	17.78	Split Peak	zhangji	05/14/20 17:08
2-Amino-4,6-dinitrotoluene	17.94	Split Peak	zhangji	05/14/20 17:08
1,3,5-Trinitrobenzene	18.83	Peak assignment corrected	zhangji	05/14/20 17:08
2,6-Dinitrotoluene	19.74	Peak assignment corrected	zhangji	05/14/20 17:08
2,4-Dinitrotoluene	20.24	Peak assignment corrected	zhangji	05/14/20 17:08
Tetryl	23.52	Peak assignment corrected	zhangji	05/14/20 17:08
2,4,6-Trinitrotoluene	24.62	Peak assignment corrected	zhangji	05/14/20 17:08

Lab Sample ID: IC 280-494886/8 Client Sample ID:

Date Analyzed: 05/14/20 16:51 Lab File ID: 05140008.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	13.03	Baseline	zhangji	05/15/20 11:34

Lab Sample ID: IC 280-494886/9 Client Sample ID:

Date Analyzed: 05/14/20 17:26 Lab File ID: 05140009.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	13.03	Baseline	zhangji	05/15/20 11:34

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 494886

Lab Sample ID: IC 280-494886/10 Client Sample ID:

Date Analyzed: 05/14/20 18:01 Lab File ID: 05140010.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	6.27	Peak assignment corrected	zhangji	05/15/20 11:20
1,2-Dinitrobenzene	13.04	Baseline	zhangji	05/15/20 11:34
1,3-Dinitrobenzene	15.55	Baseline	zhangji	05/15/20 11:20
2-Nitrotoluene	16.54	Baseline	zhangji	05/15/20 11:20
4-Nitrotoluene	16.82	Baseline	zhangji	05/15/20 11:20
4-Amino-2,6-dinitrotoluene	17.15	Baseline	zhangji	05/15/20 11:20
3-Nitrotoluene	17.75	Baseline	zhangji	05/15/20 11:20
2-Amino-4,6-dinitrotoluene	18.04	Baseline	zhangji	05/15/20 11:20
2,6-Dinitrotoluene	19.81	Baseline	zhangji	05/15/20 11:20
2,4-Dinitrotoluene	20.29	Baseline	zhangji	05/15/20 11:20
PETN	25.28	Peak Tail	zhangji	05/15/20 11:25

Lab Sample ID: IC 280-494886/11 Client Sample ID:

Date Analyzed: 05/14/20 18:36 Lab File ID: 05140011.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	6.30	Peak assignment corrected	zhangji	05/15/20 11:20
1,2-Dinitrobenzene	13.04	Baseline	zhangji	05/15/20 11:35
Nitroglycerin	15.85	Baseline	zhangji	05/15/20 11:32
PETN	25.28	Peak Tail	zhangji	05/15/20 11:25

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 494886

Lab Sample ID: IC 280-494886/12 Client Sample ID:

Date Analyzed: 05/14/20 19:11 Lab File ID: 05140012.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	6.31	Peak assignment corrected	zhangji	05/15/20 11:22
1,3-Dinitrobenzene	15.55	Baseline	zhangji	05/15/20 11:21
Nitroglycerin	15.85	Baseline	zhangji	05/15/20 11:32
2-Nitrotoluene	16.53	Baseline	zhangji	05/15/20 11:21
4-Nitrotoluene	16.83	Baseline	zhangji	05/15/20 11:21
4-Amino-2,6-dinitrotoluene	17.15	Baseline	zhangji	05/15/20 11:21
3-Nitrotoluene	17.74	Baseline	zhangji	05/15/20 11:21
2-Amino-4,6-dinitrotoluene	18.05	Baseline	zhangji	05/15/20 11:21
1,3,5-Trinitrobenzene	18.88	Baseline	zhangji	05/15/20 11:21
2,6-Dinitrotoluene	19.79	Baseline	zhangji	05/15/20 11:21
2,4-Dinitrotoluene	20.29	Baseline	zhangji	05/15/20 11:21
PETN	25.28	Peak Tail	zhangji	05/15/20 11:24

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 494886

Lab Sample ID: IC 280-494886/13 Client Sample ID:

Date Analyzed: 05/14/20 19:46 Lab File ID: 05140013.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	6.33	Baseline	zhangji	05/15/20 11:22
1,2-Dinitrobenzene	13.04	Baseline	zhangji	05/15/20 11:35
1,3-Dinitrobenzene	15.54	Baseline	zhangji	05/15/20 11:22
Nitroglycerin	15.84	Incomplete Integration	zhangji	05/15/20 11:32
2-Nitrotoluene	16.55	Baseline	zhangji	05/15/20 11:22
4-Nitrotoluene	16.84	Baseline	zhangji	05/15/20 11:22
4-Amino-2,6-dinitrotoluene	17.16	Baseline	zhangji	05/15/20 11:22
3-Nitrotoluene	17.72	Baseline	zhangji	05/15/20 11:22
2-Amino-4,6-dinitrotoluene	18.03	Baseline	zhangji	05/15/20 11:22
1,3,5-Trinitrobenzene	18.86	Baseline	zhangji	05/15/20 11:22
2,6-Dinitrotoluene	19.82	Baseline	zhangji	05/15/20 11:22
2,4-Dinitrotoluene	20.29	Baseline	zhangji	05/15/20 11:22
PETN	25.28	Peak Tail	zhangji	05/15/20 11:24

Lab Sample ID: IC 280-494886/14 Client Sample ID:

Date Analyzed: 05/14/20 20:21 Lab File ID: 05140014.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	6.32	Peak assignment corrected	zhangji	05/15/20 11:22
1,2-Dinitrobenzene	13.02	Split Peak	zhangji	05/15/20 11:35
PETN	25.28	Split Peak	zhangji	05/15/20 11:24

Lab Sample ID: IC 280-494886/15 Client Sample ID:

Date Analyzed: 05/14/20 20:56 Lab File ID: 05140015.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,6-Dinitrotoluene	19.76	Baseline	zhangji	05/15/20 11:30
2,4-Dinitrotoluene	20.30	Baseline	zhangji	05/15/20 11:30

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 494886

Lab Sample ID: ICV 280-494886/16 Client Sample ID:

Date Analyzed: 05/14/20 21:31 Lab File ID: 05140016.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	6.23	Peak assignment corrected	zhangji	05/15/20 11:14
2-Nitrotoluene	16.49	Baseline	zhangji	05/15/20 11:33
4-Nitrotoluene	16.77	Baseline	zhangji	05/15/20 11:33
4-Amino-2,6-dinitrotoluene	17.10	Baseline	zhangji	05/15/20 11:33
3-Nitrotoluene	17.69	Baseline	zhangji	05/15/20 11:33
2-Amino-4,6-dinitrotoluene	17.99	Baseline	zhangji	05/15/20 11:33
1,3,5-Trinitrobenzene	18.83	Baseline	zhangji	05/15/20 11:33
2,6-Dinitrotoluene	19.75	Baseline	zhangji	05/15/20 11:33
2,4-Dinitrotoluene	20.24	Baseline	zhangji	05/15/20 11:33

Lab Sample ID: IC 280-494886/17 Client Sample ID:

Date Analyzed: 05/14/20 22:06 Lab File ID: 05140017.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.71	Peak assignment corrected	zhangji	05/15/20 11:36

Lab Sample ID: IC 280-494886/18 Client Sample ID:

Date Analyzed: 05/14/20 22:41 Lab File ID: 05140018.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.73	Peak assignment corrected	zhangji	05/15/20 11:36

Lab Sample ID: IC 280-494886/19 Client Sample ID:

Date Analyzed: 05/14/20 23:16 Lab File ID: 05140019.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.74	Peak assignment corrected	zhangji	05/15/20 11:36

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 494886

Lab Sample ID: IC 280-494886/20 Client Sample ID:

Date Analyzed: 05/14/20 23:51 Lab File ID: 05140020.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.74	Peak assignment corrected	zhangji	05/15/20 11:36

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 500326

Lab Sample ID: CCV 280-500326/7 Client Sample ID:

Date Analyzed: 06/26/20 18:34 Lab File ID: 06260007.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Dinitrobenzene	15.81	Baseline	zhangji	06/26/20 19:16
Nitroglycerin	16.04	Baseline	zhangji	06/26/20 19:17
2-Nitrotoluene	16.75	Baseline	zhangji	06/26/20 19:16
4-Nitrotoluene	17.03	Baseline	zhangji	06/26/20 19:16
4-Amino-2,6-dinitrotoluene	17.47	Baseline	zhangji	06/26/20 19:16
3-Nitrotoluene	17.97	Baseline	zhangji	06/26/20 19:16
2-Amino-4,6-dinitrotoluene	18.41	Baseline	zhangji	06/26/20 19:16
1,3,5-Trinitrobenzene	19.15	Baseline	zhangji	06/26/20 19:16
2,6-Dinitrotoluene	20.07	Baseline	zhangji	06/26/20 19:16
2,4-Dinitrotoluene	20.59	Baseline	zhangji	06/26/20 19:16

Lab Sample ID: 280-137736-1 Client Sample ID: WC-Q3-JUNE20

Date Analyzed: 06/26/20 21:29 Lab File ID: 06260012.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Nitrotoluene		Baseline	zhangji	06/27/20 11:54
1,2-Dinitrobenzene	13.25	Baseline	zhangji	06/27/20 11:53
2-Nitrotoluene	16.71	Baseline	zhangji	06/27/20 11:54
4-Nitrotoluene	16.99	Baseline	zhangji	06/27/20 11:54
4-Amino-2,6-dinitrotoluene	17.46	Baseline	zhangji	06/27/20 11:54
2-Amino-4,6-dinitrotoluene	18.34	Baseline	zhangji	06/27/20 11:54

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 500326

Lab Sample ID: 280-137736-3 Client Sample ID: G0091-20A

Date Analyzed: 06/26/20 22:04 Lab File ID: 06260013.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	7.12	Baseline	zhangji	06/27/20 11:54
1,3,5-Trinitrobenzene		Invalid Compound ID	zhangji	06/27/20 11:54
3-Nitrotoluene		Baseline	zhangji	06/27/20 11:54
1,2-Dinitrobenzene	13.24	Baseline	zhangji	06/27/20 11:54
4-Amino-2,6-dinitrotoluene	17.43	Baseline	zhangji	06/27/20 11:55
2-Amino-4,6-dinitrotoluene	18.37	Baseline	zhangji	06/27/20 11:55

Lab Sample ID: 280-137736-4 Client Sample ID: G0123-20A

Date Analyzed: 06/26/20 22:39 Lab File ID: 06260014.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dinitrotoluene		Invalid Compound ID	zhangji	06/27/20 11:55
2-Nitrotoluene		Invalid Compound ID	zhangji	06/27/20 11:55
4-Amino-2,6-dinitrotoluene	17.43	Baseline	zhangji	06/27/20 11:55
2-Amino-4,6-dinitrotoluene	18.36	Baseline	zhangji	06/27/20 11:55

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 500326

Lab Sample ID: 280-137736-4 DL Client Sample ID: G0123-20A DL

Date Analyzed: 06/26/20 23:14 Lab File ID: 06260015.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	7.14	Baseline	zhangji	06/27/20 11:56
MNX	7.91	Baseline	zhangji	06/27/20 11:56
RDX	9.35	Baseline	zhangji	06/27/20 11:56
2-Amino-4,6-dinitrotoluene		Invalid Compound ID	zhangji	06/27/20 11:56
3-Nitrotoluene		Invalid Compound ID	zhangji	06/27/20 11:56
4-Amino-2,6-dinitrotoluene		Invalid Compound ID	zhangji	06/27/20 11:56
4-Nitrotoluene		Invalid Compound ID	zhangji	06/27/20 11:56
Tetryl		Invalid Compound ID	zhangji	06/27/20 11:55
1,2-Dinitrobenzene	13.25	Baseline	zhangji	06/27/20 11:56

Lab Sample ID: 280-137736-5 Client Sample ID: G0122-20A

Date Analyzed: 06/26/20 23:49 Lab File ID: 06260016.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Dinitrobenzene		Invalid Compound ID	zhangji	06/27/20 11:57
2,4,6-Trinitrotoluene		Invalid Compound ID	zhangji	06/27/20 11:57
2,4-Dinitrotoluene		Invalid Compound ID	zhangji	06/27/20 11:57
2-Nitrotoluene		Invalid Compound ID	zhangji	06/27/20 11:57
3-Nitrotoluene		Baseline	zhangji	06/27/20 11:57
2-Amino-4,6-dinitrotoluene	18.36	Baseline	zhangji	06/27/20 11:57
1,3,5-Trinitrobenzene	19.12	Baseline	zhangji	06/27/20 11:57

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 500326

Lab Sample ID: 280-137736-6 Client Sample ID: G0096-20A

Date Analyzed: 06/27/20 00:24 Lab File ID: 06260017.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene		Invalid Compound ID	zhangji	06/27/20 11:57
3-Nitrotoluene		Invalid Compound ID	zhangji	06/27/20 11:57
1,2-Dinitrobenzene	13.24	Baseline	zhangji	06/27/20 11:57
2,4,6-Trinitrotoluene	24.88	Baseline	zhangji	06/27/20 11:57

Lab Sample ID: 280-137736-6 DL Client Sample ID: G0096-20A DL

Date Analyzed: 06/27/20 00:59 Lab File ID: 06260018.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene		Invalid Compound ID	zhangji	06/27/20 11:58
3-Nitrotoluene		Invalid Compound ID	zhangji	06/27/20 11:58
Nitrobenzene	12.42	Baseline	zhangji	06/27/20 11:58
1,2-Dinitrobenzene	13.26	Baseline	zhangji	06/27/20 11:58

Lab Sample ID: CCV 280-500326/19 Client Sample ID:

Date Analyzed: 06/27/20 01:34 Lab File ID: 06260019.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Dinitrobenzene	15.77	Baseline	zhangji	06/27/20 11:58
Nitroglycerin	15.99	Baseline	zhangji	06/27/20 11:58
2-Nitrotoluene	16.71	Baseline	zhangji	06/27/20 11:58
4-Nitrotoluene	16.99	Baseline	zhangji	06/27/20 11:58
4-Amino-2,6-dinitrotoluene	17.43	Baseline	zhangji	06/27/20 11:58
3-Nitrotoluene	17.92	Baseline	zhangji	06/27/20 11:58
2-Amino-4,6-dinitrotoluene	18.36	Baseline	zhangji	06/27/20 11:58
1,3,5-Trinitrobenzene	19.10	Baseline	zhangji	06/27/20 11:58
2,6-Dinitrotoluene	20.02	Baseline	zhangji	06/27/20 11:58
2,4-Dinitrotoluene	20.53	Baseline	zhangji	06/27/20 11:58

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 500326

Lab Sample ID: 280-137736-7 Client Sample ID: G0296-20A

Date Analyzed: 06/27/20 02:44 Lab File ID: 06260021.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene		Invalid Compound ID	zhangji	06/27/20 11:58
3-Nitrotoluene		Invalid Compound ID	zhangji	06/27/20 11:58

Lab Sample ID: 280-137736-7 DL Client Sample ID: G0296-20A DL

Date Analyzed: 06/27/20 03:19 Lab File ID: 06260022.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Dinitrobenzene		Invalid Compound ID	zhangji	06/27/20 11:59
2-Amino-4,6-dinitrotoluene		Invalid Compound ID	zhangji	06/27/20 11:59
2-Nitrotoluene		Invalid Compound ID	zhangji	06/27/20 11:59
3-Nitrotoluene		Invalid Compound ID	zhangji	06/27/20 11:59
1,2-Dinitrobenzene	13.26	Baseline	zhangji	06/27/20 11:59

Lab Sample ID: 280-137736-8 Client Sample ID: G0092-20A

Date Analyzed: 06/27/20 03:54 Lab File ID: 06260023.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3,5-Trinitrobenzene		Invalid Compound ID	zhangji	06/27/20 11:59
2-Nitrotoluene		Invalid Compound ID	zhangji	06/27/20 11:59
3-Nitrotoluene		Invalid Compound ID	zhangji	06/27/20 11:59
RDX		Invalid Compound ID	zhangji	06/27/20 11:59

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 500326

Lab Sample ID: 280-137736-14 Client Sample ID: G0077-20A

Date Analyzed: 06/27/20 04:29 Lab File ID: 06260024.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	7.13	Baseline	zhangji	06/27/20 11:59
RDX	9.33	Baseline	zhangji	06/27/20 12:00
2-Nitrotoluene		Invalid Compound ID	zhangji	06/27/20 12:00
4-Amino-2,6-dinitrotoluene	17.43	Baseline	zhangji	06/27/20 12:00
2-Amino-4,6-dinitrotoluene	18.36	Baseline	zhangji	06/27/20 12:00
1,3,5-Trinitrobenzene	19.10	Baseline	zhangji	06/27/20 12:00

Lab Sample ID: 280-137736-16 Client Sample ID: G0093-20A

Date Analyzed: 06/27/20 05:04 Lab File ID: 06260025.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	7.12	Baseline	zhangji	06/27/20 12:01
1,3-Dinitrobenzene		Invalid Compound ID	zhangji	06/27/20 12:01
2-Nitrotoluene		Invalid Compound ID	zhangji	06/27/20 12:00
3-Nitrotoluene		Baseline	zhangji	06/27/20 12:00
RDX		Invalid Compound ID	zhangji	06/27/20 12:00
1,2-Dinitrobenzene	13.25	Baseline	zhangji	06/27/20 12:00
2-Amino-4,6-dinitrotoluene	18.33	Baseline	zhangji	06/27/20 12:00
1,3,5-Trinitrobenzene	19.10	Baseline	zhangji	06/27/20 12:00

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 500326

Lab Sample ID: 280-137736-17 Client Sample ID: G0086-20A

Date Analyzed: 06/27/20 05:39 Lab File ID: 06260026.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	7.13	Baseline	zhangji	06/27/20 12:01
RDX	9.35	Baseline	zhangji	06/27/20 12:01
2-Nitrotoluene		Invalid Compound ID	zhangji	06/27/20 12:01
4-Amino-2,6-dinitrotoluene	17.43	Baseline	zhangji	06/27/20 12:01
2,4-Dinitrotoluene	20.57	Baseline	zhangji	06/27/20 12:02

Lab Sample ID: CCV 280-500326/27 Client Sample ID:

Date Analyzed: 06/27/20 11:31 Lab File ID: 06260027.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	7.13	Baseline	zhangji	06/27/20 16:18
Picric acid	8.41	Baseline	zhangji	06/27/20 12:12
RDX	9.32	Baseline	zhangji	06/27/20 12:12
1,3-Dinitrobenzene	15.74	Baseline	zhangji	06/27/20 12:11
Nitroglycerin	15.98	Baseline	zhangji	06/27/20 12:12
2-Nitrotoluene	16.68	Baseline	zhangji	06/27/20 12:11
4-Nitrotoluene	16.96	Baseline	zhangji	06/27/20 12:11
4-Amino-2,6-dinitrotoluene	17.40	Baseline	zhangji	06/27/20 12:11
3-Nitrotoluene	17.90	Baseline	zhangji	06/27/20 12:11
2-Amino-4,6-dinitrotoluene	18.32	Baseline	zhangji	06/27/20 12:11
1,3,5-Trinitrobenzene	19.06	Baseline	zhangji	06/27/20 12:11
2,6-Dinitrotoluene	20.00	Baseline	zhangji	06/27/20 12:11
2,4-Dinitrotoluene	20.50	Baseline	zhangji	06/27/20 12:11

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 500327

Lab Sample ID: CCV 280-500327/27 Client Sample ID:

Date Analyzed: 06/27/20 11:31 Lab File ID: 06260027.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	7.13	Baseline	zhangji	06/27/20 16:18
Picric acid	8.41	Baseline	zhangji	06/27/20 12:12
RDX	9.32	Baseline	zhangji	06/27/20 12:12
1,3-Dinitrobenzene	15.74	Baseline	zhangji	06/27/20 12:11
Nitroglycerin	15.98	Baseline	zhangji	06/27/20 12:12
2-Nitrotoluene	16.68	Baseline	zhangji	06/27/20 12:11
4-Nitrotoluene	16.96	Baseline	zhangji	06/27/20 12:11
4-Amino-2,6-dinitrotoluene	17.40	Baseline	zhangji	06/27/20 12:11
3-Nitrotoluene	17.90	Baseline	zhangji	06/27/20 12:11
2-Amino-4,6-dinitrotoluene	18.32	Baseline	zhangji	06/27/20 12:11
1,3,5-Trinitrobenzene	19.06	Baseline	zhangji	06/27/20 12:11
2,6-Dinitrotoluene	20.00	Baseline	zhangji	06/27/20 12:11
2,4-Dinitrotoluene	20.50	Baseline	zhangji	06/27/20 12:11

Lab Sample ID: 280-137736-10 Client Sample ID: PZ020-20A

Date Analyzed: 06/27/20 15:36 Lab File ID: 06260034.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	7.13	Baseline	zhangji	06/27/20 16:13
RDX	9.34	Baseline	zhangji	06/27/20 16:13
2,4-Dinitrotoluene		Invalid Compound ID	zhangji	06/27/20 16:14
2-Nitrotoluene		Invalid Compound ID	zhangji	06/27/20 16:14
1,2-Dinitrobenzene	13.26	Baseline	zhangji	06/27/20 16:13
2-Amino-4,6-dinitrotoluene	18.39	Baseline	zhangji	06/27/20 16:14
1,3,5-Trinitrobenzene	19.13	Baseline	zhangji	06/27/20 16:14
2,4,6-Trinitrotoluene	24.89	Baseline	zhangji	06/27/20 16:14

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 500327

Lab Sample ID: 280-137736-11 Client Sample ID: G0087-20A

Date Analyzed: 06/27/20 16:10 Lab File ID: 06260035.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	7.14	Baseline	zhangji	06/27/20 16:47
2-Nitrotoluene		Invalid Compound ID	zhangji	06/27/20 16:47
Tetryl		Invalid Compound ID	zhangji	06/27/20 16:47
1,2-Dinitrobenzene	13.27	Baseline	zhangji	06/27/20 16:47

Lab Sample ID: 280-137736-12 Client Sample ID: G0088-20A

Date Analyzed: 06/27/20 16:45 Lab File ID: 06260036.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene		Invalid Compound ID	zhangji	06/27/20 17:31
RDX		Invalid Compound ID	zhangji	06/27/20 17:31
4-Amino-2,6-dinitrotoluene	17.44	Baseline	zhangji	06/27/20 17:32
2,4,6-Trinitrotoluene	24.92	Baseline	zhangji	06/27/20 17:32

Lab Sample ID: 280-137736-13 Client Sample ID: G0089-20A

Date Analyzed: 06/27/20 17:20 Lab File ID: 06260037.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	7.14	Baseline	zhangji	07/01/20 16:54
RDX	9.35	Baseline	zhangji	07/01/20 16:54
2-Nitrotoluene		Invalid Compound ID	zhangji	07/01/20 16:54
4-Nitrotoluene		Baseline	zhangji	07/01/20 16:54
4-Amino-2,6-dinitrotoluene	17.44	Baseline	zhangji	07/01/20 16:54
1,3,5-Trinitrobenzene	19.13	Baseline	zhangji	07/01/20 16:54
2,4,6-Trinitrotoluene	24.91	Baseline	zhangji	07/01/20 16:54

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 500327

Lab Sample ID: CCV 280-500327/38 Client Sample ID:

Date Analyzed: 06/27/20 17:55 Lab File ID: 06260038.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene	12.27	Baseline	zhangji	07/01/20 16:55
1,2-Dinitrobenzene	13.27	Baseline	zhangji	07/01/20 16:55
1,3-Dinitrobenzene	15.80	Baseline	zhangji	07/01/20 16:55
Nitroglycerin	16.03	Baseline	zhangji	07/01/20 16:55
2-Nitrotoluene	16.74	Baseline	zhangji	07/01/20 16:55
4-Nitrotoluene	17.02	Baseline	zhangji	07/01/20 16:55
4-Amino-2,6-dinitrotoluene	17.45	Baseline	zhangji	07/01/20 16:55
3-Nitrotoluene	17.96	Baseline	zhangji	07/01/20 16:55
2-Amino-4,6-dinitrotoluene	18.38	Baseline	zhangji	07/01/20 16:55
1,3,5-Trinitrobenzene	19.13	Baseline	zhangji	07/01/20 16:55
2,6-Dinitrotoluene	20.06	Baseline	zhangji	07/01/20 16:55
2,4-Dinitrotoluene	20.57	Baseline	zhangji	07/01/20 16:55

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 500847

Lab Sample ID: CCV 280-500847/7 Client Sample ID:

Date Analyzed: 07/01/20 22:21 Lab File ID: 07010007.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Dinitrobenzene	15.94	Baseline	zhangji	07/01/20 22:57
Nitroglycerin	16.18	Baseline	zhangji	07/01/20 22:58
2-Nitrotoluene	16.86	Baseline	zhangji	07/01/20 22:58
4-Nitrotoluene	17.15	Baseline	zhangji	07/01/20 22:58
4-Amino-2,6-dinitrotoluene	17.63	Baseline	zhangji	07/01/20 22:58
3-Nitrotoluene	18.08	Baseline	zhangji	07/01/20 22:58
2-Amino-4,6-dinitrotoluene	18.58	Baseline	zhangji	07/01/20 22:58
1,3,5-Trinitrobenzene	19.27	Baseline	zhangji	07/01/20 22:58
2,6-Dinitrotoluene	20.20	Baseline	zhangji	07/01/20 22:58
2,4-Dinitrotoluene	20.72	Baseline	zhangji	07/01/20 22:58

Lab Sample ID: 280-137736-10 RE Client Sample ID: PZ020-20A RE

Date Analyzed: 07/02/20 02:26 Lab File ID: 07010014.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	7.26	Baseline	zhangji	07/02/20 15:19
RDX	9.49	Baseline	zhangji	07/02/20 15:20
2,4-Dinitrotoluene		Invalid Compound ID	zhangji	07/02/20 15:20
3-Nitrotoluene		Invalid Compound ID	zhangji	07/02/20 15:20
1,2-Dinitrobenzene	13.43	Baseline	zhangji	07/02/20 15:20
4-Amino-2,6-dinitrotoluene	17.65	Baseline	zhangji	07/02/20 15:20
2,4,6-Trinitrotoluene	25.05	Baseline	zhangji	07/02/20 15:20

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 500847

Lab Sample ID: 280-137736-11 RE Client Sample ID: G0087-20A RE

Date Analyzed: 07/02/20 03:01 Lab File ID: 07010015.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	9.49	Baseline	zhangji	07/02/20 15:21
2-Amino-4,6-dinitrotoluene		Invalid Compound ID	zhangji	07/02/20 15:20
2-Nitrotoluene		Invalid Compound ID	zhangji	07/02/20 15:20
4-Amino-2,6-dinitrotoluene	17.69	Baseline	zhangji	07/02/20 15:21

Lab Sample ID: 280-137736-12 RE Client Sample ID: G0088-20A RE

Date Analyzed: 07/02/20 03:36 Lab File ID: 07010016.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitrotoluene		Invalid Compound ID	zhangji	07/02/20 15:21
3-Nitrotoluene		Baseline	zhangji	07/02/20 15:21
1,2-Dinitrobenzene	13.41	Baseline	zhangji	07/02/20 15:21
4-Amino-2,6-dinitrotoluene	17.63	Baseline	zhangji	07/02/20 15:21
2,4-Dinitrotoluene	20.76	Baseline	zhangji	07/02/20 15:21
2,4,6-Trinitrotoluene	25.03	Baseline	zhangji	07/02/20 15:21

Lab Sample ID: 280-137736-13 RE Client Sample ID: G0089-20A RE

Date Analyzed: 07/02/20 04:11 Lab File ID: 07010017.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	7.25	Baseline	zhangji	07/02/20 15:22
RDX	9.48	Baseline	zhangji	07/02/20 15:22
2-Nitrotoluene		Baseline	zhangji	07/02/20 15:22
3-Nitrotoluene		Baseline	zhangji	07/02/20 15:22
4-Amino-2,6-dinitrotoluene	17.63	Baseline	zhangji	07/02/20 15:22
2,4-Dinitrotoluene	20.71	Baseline	zhangji	07/02/20 15:22
2,4,6-Trinitrotoluene	25.00	Baseline	zhangji	07/02/20 15:22

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 500847

Lab Sample ID: CCV 280-500847/18 Client Sample ID:

Date Analyzed: 07/02/20 04:46 Lab File ID: 07010018.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	8.85	Peak assignment corrected	zhangji	07/02/20 15:22
Nitrobenzene	12.35	Baseline	zhangji	07/02/20 15:23
1,2-Dinitrobenzene	13.39	Baseline	zhangji	07/02/20 15:23
1,3-Dinitrobenzene	15.91	Baseline	zhangji	07/02/20 15:23
Nitroglycerin	16.14	Baseline	zhangji	07/02/20 15:23
2-Nitrotoluene	16.82	Baseline	zhangji	07/02/20 15:23
4-Nitrotoluene	17.11	Baseline	zhangji	07/02/20 15:23
4-Amino-2,6-dinitrotoluene	17.60	Baseline	zhangji	07/02/20 15:23
3-Nitrotoluene	18.04	Baseline	zhangji	07/02/20 15:23
2-Amino-4,6-dinitrotoluene	18.56	Baseline	zhangji	07/02/20 15:23
1,3,5-Trinitrobenzene	19.24	Baseline	zhangji	07/02/20 15:23
2,6-Dinitrotoluene	20.17	Baseline	zhangji	07/02/20 15:23
2,4-Dinitrotoluene	20.69	Baseline	zhangji	07/02/20 15:23

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 487658

Lab Sample ID: IC 280-487658/25 Client Sample ID:

Date Analyzed: 03/04/20 21:00 Lab File ID: 03040025.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:29
DNX	6.92	Baseline	beckerc	03/05/20 08:29
MNX	7.36	Baseline	beckerc	03/05/20 08:30

Lab Sample ID: IC 280-487658/26 Client Sample ID:

Date Analyzed: 03/04/20 21:23 Lab File ID: 03040026.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:30
DNX	6.92	Baseline	beckerc	03/05/20 08:30

Lab Sample ID: IC 280-487658/27 Client Sample ID:

Date Analyzed: 03/04/20 21:45 Lab File ID: 03040027.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:30
DNX	6.92	Baseline	beckerc	03/05/20 08:30

Lab Sample ID: IC 280-487658/28 Client Sample ID:

Date Analyzed: 03/04/20 22:09 Lab File ID: 03040028.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:31
DNX	6.92	Baseline	beckerc	03/05/20 08:31

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 487658

Lab Sample ID: IC 280-487658/29 Client Sample ID:

Date Analyzed: 03/04/20 22:31 Lab File ID: 03040029.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:31
DNX	6.92	Baseline	beckerc	03/05/20 08:31

Lab Sample ID: IC 280-487658/30 Client Sample ID:

Date Analyzed: 03/04/20 22:54 Lab File ID: 03040030.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:31
DNX	6.92	Baseline	beckerc	03/05/20 08:32

Lab Sample ID: IC 280-487658/31 Client Sample ID:

Date Analyzed: 03/04/20 23:17 Lab File ID: 03040031.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:32
DNX	6.91	Baseline	beckerc	03/05/20 08:32

Lab Sample ID: IC 280-487658/32 Client Sample ID:

Date Analyzed: 03/04/20 23:40 Lab File ID: 03040032.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:32
DNX	6.91	Baseline	beckerc	03/05/20 08:32

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 487658

Lab Sample ID: ICV 280-487658/33 Client Sample ID:

Date Analyzed: 03/05/20 00:03 Lab File ID: 03040033.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/05/20 08:37
DNX	6.91	Baseline	beckerc	03/05/20 08:37

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 489145

Lab Sample ID: IC 280-489145/7 Client Sample ID:

Date Analyzed: 03/18/20 11:35 Lab File ID: 03180007.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.68	Baseline	beckerc	03/19/20 08:41
1,3-Dinitrobenzene	9.53	Baseline	beckerc	03/19/20 08:41

Lab Sample ID: IC 280-489145/8 Client Sample ID:

Date Analyzed: 03/18/20 11:58 Lab File ID: 03180008.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:41

Lab Sample ID: IC 280-489145/9 Client Sample ID:

Date Analyzed: 03/18/20 12:21 Lab File ID: 03180009.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:42

Lab Sample ID: IC 280-489145/10 Client Sample ID:

Date Analyzed: 03/18/20 12:44 Lab File ID: 03180010.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:42

Lab Sample ID: IC 280-489145/11 Client Sample ID:

Date Analyzed: 03/18/20 13:07 Lab File ID: 03180011.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:43

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 489145

Lab Sample ID: IC 280-489145/12 Client Sample ID:

Date Analyzed: 03/18/20 13:30 Lab File ID: 03180012.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:43

Lab Sample ID: IC 280-489145/13 Client Sample ID:

Date Analyzed: 03/18/20 13:53 Lab File ID: 03180013.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:44

Lab Sample ID: IC 280-489145/14 Client Sample ID:

Date Analyzed: 03/18/20 14:16 Lab File ID: 03180014.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:44
2-Amino-4,6-dinitrotoluene	11.63	Baseline	beckerc	03/19/20 08:44
2,6-Dinitrotoluene	11.79	Unspecified		

Lab Sample ID: IC 280-489145/15 Client Sample ID:

Date Analyzed: 03/18/20 14:39 Lab File ID: 03180015.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Picric acid	8.08	Unspecified		
2-Amino-4,6-dinitrotoluene	11.64	Baseline	beckerc	03/19/20 08:46
2,6-Dinitrotoluene	11.80	Unspecified		

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 489145

Lab Sample ID: ICV 280-489145/16 Client Sample ID:

Date Analyzed: 03/18/20 15:02 Lab File ID: 03180016.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/19/20 08:47

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 499988

Lab Sample ID: CCV 280-499988/7 Client Sample ID:

Date Analyzed: 06/24/20 16:16 Lab File ID: 06240007.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.71	Baseline	zhangji	06/24/20 16:42

Lab Sample ID: CCV 280-499988/9 Client Sample ID:

Date Analyzed: 06/24/20 17:02 Lab File ID: 06240009.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.62	Baseline	zhangji	06/24/20 17:58
DNX	6.94	Baseline	zhangji	06/24/20 17:58

Lab Sample ID: MB 280-499527/1-A Client Sample ID:

Date Analyzed: 06/24/20 17:25 Lab File ID: 06240010.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3,5-Trinitrobenzene		Invalid Compound ID	zhangji	06/24/20 17:58
3-Nitrotoluene		Invalid Compound ID	zhangji	06/24/20 17:58
MNX		Invalid Compound ID	zhangji	06/24/20 17:58

Lab Sample ID: LCS 280-499527/2-A Client Sample ID:

Date Analyzed: 06/24/20 17:48 Lab File ID: 06240011.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.71	Baseline	zhangji	06/24/20 18:27
3-Nitrotoluene	13.86	Baseline	zhangji	06/24/20 18:27

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 499988

Lab Sample ID: LCS 280-499527/3-A Client Sample ID:

Date Analyzed: 06/24/20 18:11 Lab File ID: 06240012.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.37	Baseline	zhangji	06/24/20 19:56
1,2-Dinitrobenzene	8.73	Baseline	zhangji	06/24/20 19:56

Lab Sample ID: 280-137736-1 Client Sample ID: WC-Q3-JUNE20

Date Analyzed: 06/24/20 18:57 Lab File ID: 06240014.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	7.76	Baseline	zhangji	06/24/20 19:57
1,2-Dinitrobenzene	8.74	Baseline	zhangji	06/24/20 19:57
1,3-Dinitrobenzene		Invalid Compound ID	zhangji	06/24/20 19:57
2,4,6-Trinitrotoluene		Invalid Compound ID	zhangji	06/24/20 19:57
2,4-Dinitrotoluene		Invalid Compound ID	zhangji	06/24/20 19:57
2-Amino-4,6-dinitrotoluene		Invalid Compound ID	zhangji	06/24/20 19:57
2-Nitrotoluene		Invalid Compound ID	zhangji	06/24/20 19:57
4-Nitrotoluene		Invalid Compound ID	zhangji	06/24/20 19:57
MNX		Invalid Compound ID	zhangji	06/24/20 19:57
Nitrobenzene		Invalid Compound ID	zhangji	06/24/20 19:57

Lab Sample ID: 280-137736-3 Client Sample ID: G0091-20A

Date Analyzed: 06/24/20 19:20 Lab File ID: 06240015.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	7.78	Baseline	zhangji	06/24/20 19:57
1,2-Dinitrobenzene	8.75	Baseline	zhangji	06/24/20 19:57

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 499988

Lab Sample ID: 280-137736-4 Client Sample ID: G0123-20A

Date Analyzed: 06/24/20 19:43 Lab File ID: 06240016.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.72	Baseline	zhangji	06/24/20 20:11
MNX	7.42	Baseline	zhangji	06/24/20 20:11
RDX	7.78	Baseline	zhangji	06/24/20 20:11
1,2-Dinitrobenzene	8.75	Baseline	zhangji	06/24/20 20:11
1,3-Dinitrobenzene		Invalid Compound ID	zhangji	06/24/20 20:11
Nitrobenzene		Invalid Compound ID	zhangji	06/24/20 20:11
Tetryl		Invalid Compound ID	zhangji	06/24/20 20:11

Lab Sample ID: 280-137736-5 Client Sample ID: G0122-20A

Date Analyzed: 06/24/20 20:06 Lab File ID: 06240017.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.71	Baseline	zhangji	06/24/20 20:30
MNX	7.38	Baseline	zhangji	06/24/20 20:30
RDX	7.79	Baseline	zhangji	06/24/20 20:30
1,2-Dinitrobenzene	8.75	Baseline	zhangji	06/24/20 20:30
1,3,5-Trinitrobenzene	8.93	Baseline	zhangji	06/24/20 20:30
2-Amino-4,6-dinitrotoluene		Invalid Compound ID	zhangji	06/24/20 20:31
3-Nitrotoluene		Invalid Compound ID	zhangji	06/24/20 20:31
Nitrobenzene		Invalid Compound ID	zhangji	06/24/20 20:31
Tetryl		Invalid Compound ID	zhangji	06/24/20 20:31
2,4,6-Trinitrotoluene	11.21	Baseline	zhangji	06/24/20 20:31
4-Amino-2,6-dinitrotoluene	11.37	Baseline	zhangji	06/24/20 20:31

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 499988

Lab Sample ID: 280-137736-6 Client Sample ID: G0096-20A

Date Analyzed: 06/24/20 20:29 Lab File ID: 06240018.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.72	Baseline	zhangji	06/24/20 20:55
MNX	7.38	Baseline	zhangji	06/24/20 20:55
RDX	7.79	Baseline	zhangji	06/24/20 20:55
1,2-Dinitrobenzene	8.75	Baseline	zhangji	06/24/20 20:55
1,3,5-Trinitrobenzene	8.93	Baseline	zhangji	06/24/20 20:55
1,3-Dinitrobenzene		Invalid Compound ID	zhangji	06/24/20 20:56
4-Nitrotoluene		Invalid Compound ID	zhangji	06/24/20 20:56
Nitrobenzene		Invalid Compound ID	zhangji	06/24/20 20:56
Tetryl		Invalid Compound ID	zhangji	06/24/20 20:56
2,4,6-Trinitrotoluene	11.21	Baseline	zhangji	06/24/20 20:56
4-Amino-2,6-dinitrotoluene	11.37	Baseline	zhangji	06/24/20 20:56
2-Amino-4,6-dinitrotoluene	11.66	Baseline	zhangji	06/24/20 20:56

Lab Sample ID: 280-137736-7 Client Sample ID: G0296-20A

Date Analyzed: 06/24/20 20:52 Lab File ID: 06240019.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.72	Baseline	zhangji	06/24/20 21:47
MNX	7.39	Baseline	zhangji	06/24/20 21:47
RDX	7.79	Baseline	zhangji	06/24/20 21:47
1,2-Dinitrobenzene	8.75	Baseline	zhangji	06/24/20 21:47
1,3,5-Trinitrobenzene	8.93	Baseline	zhangji	06/24/20 21:47
1,3-Dinitrobenzene		Invalid Compound ID	zhangji	06/24/20 21:48
2-Nitrotoluene		Invalid Compound ID	zhangji	06/24/20 21:48
Nitrobenzene		Invalid Compound ID	zhangji	06/24/20 21:48
Tetryl		Invalid Compound ID	zhangji	06/24/20 21:48

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 499988

Lab Sample ID: CCV 280-499988/20 Client Sample ID:

Date Analyzed: 06/24/20 21:15 Lab File ID: 06240020.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.72	Baseline	zhangji	06/24/20 21:48
1,3-Dinitrobenzene	9.57	Baseline	zhangji	06/24/20 21:49
Nitrobenzene	9.94	Baseline	zhangji	06/24/20 21:49
Tetryl	10.25	Baseline	zhangji	06/24/20 21:49
Nitroglycerin	10.75	Baseline	zhangji	06/24/20 21:49
2,4,6-Trinitrotoluene	11.20	Baseline	zhangji	06/24/20 21:49
4-Amino-2,6-dinitrotoluene	11.36	Baseline	zhangji	06/24/20 21:49
2-Amino-4,6-dinitrotoluene	11.65	Baseline	zhangji	06/24/20 21:49
2,6-Dinitrotoluene	11.79	Baseline	zhangji	06/24/20 21:49
2,4-Dinitrotoluene	11.99	Baseline	zhangji	06/24/20 21:49
2-Nitrotoluene	12.80	Baseline	zhangji	06/24/20 21:49
4-Nitrotoluene	13.23	Baseline	zhangji	06/24/20 21:49
3-Nitrotoluene	13.81	Baseline	zhangji	06/24/20 21:49

Lab Sample ID: CCV 280-499988/21 Client Sample ID:

Date Analyzed: 06/24/20 21:38 Lab File ID: 06240021.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.62	Baseline	zhangji	06/24/20 22:08
DNX	6.94	Baseline	zhangji	06/24/20 22:09

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 499988

Lab Sample ID: 280-137736-8 Client Sample ID: G0092-20A

Date Analyzed: 06/24/20 22:01 Lab File ID: 06240022.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.73	Baseline	zhangji	06/25/20 15:59
Nitrobenzene	9.93	Baseline	zhangji	06/25/20 15:59
3-Nitrotoluene		Invalid Compound ID	zhangji	06/25/20 15:59
4-Nitrotoluene		Invalid Compound ID	zhangji	06/25/20 15:59

Lab Sample ID: 280-137736-9 Client Sample ID: PZ019-20A

Date Analyzed: 06/24/20 22:24 Lab File ID: 06240023.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.72	Baseline	zhangji	06/25/20 16:04
3-Nitrotoluene		Invalid Compound ID	zhangji	06/25/20 16:05
MNX		Invalid Compound ID	zhangji	06/25/20 15:59
Nitrobenzene		Invalid Compound ID	zhangji	06/25/20 16:04

Lab Sample ID: 280-137736-9 MS Client Sample ID: PZ019-20A MS

Date Analyzed: 06/24/20 22:47 Lab File ID: 06240024.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.71	Baseline	zhangji	06/25/20 16:05
RDX	7.78	Baseline	zhangji	06/25/20 16:06

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 499988

Lab Sample ID: 280-137736-9 MSD Client Sample ID: PZ019-20A MSD

Date Analyzed: 06/24/20 23:10 Lab File ID: 06240025.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.72	Baseline	zhangji	06/25/20 16:06
RDX	7.79	Baseline	zhangji	06/25/20 16:06
3-Nitrotoluene	13.82	Baseline	zhangji	06/25/20 16:07

Lab Sample ID: 280-137736-9 MS Client Sample ID: PZ019-20A MS

Date Analyzed: 06/24/20 23:33 Lab File ID: 06240026.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.38	Baseline	zhangji	06/25/20 16:07
1,2-Dinitrobenzene	8.74	Baseline	zhangji	06/25/20 16:07

Lab Sample ID: 280-137736-9 MSD Client Sample ID: PZ019-20A MSD

Date Analyzed: 06/24/20 23:56 Lab File ID: 06240027.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.38	Baseline	zhangji	06/25/20 16:08
1,2-Dinitrobenzene	8.73	Baseline	zhangji	06/25/20 16:08

Lab Sample ID: 280-137736-14 Client Sample ID: G0077-20A

Date Analyzed: 06/25/20 00:19 Lab File ID: 06240028.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Dinitrobenzene		Invalid Compound ID	zhangji	06/25/20 16:08
4-Nitrotoluene		Invalid Compound ID	zhangji	06/25/20 16:08
MNX		Invalid Compound ID	zhangji	06/25/20 16:08
Tetryl		Invalid Compound ID	zhangji	06/25/20 16:08

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 499988

Lab Sample ID: 280-137736-15 Client Sample ID: G0078-20A

Date Analyzed: 06/25/20 00:42 Lab File ID: 06240029.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.74	Baseline	zhangji	06/25/20 16:08
3-Nitrotoluene		Invalid Compound ID	zhangji	06/25/20 16:08
HMX		Invalid Compound ID	zhangji	06/25/20 16:08

Lab Sample ID: 280-137736-17 Client Sample ID: G0086-20A

Date Analyzed: 06/25/20 01:28 Lab File ID: 06240031.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Dinitrobenzene		Invalid Compound ID	zhangji	06/25/20 16:10
4-Nitrotoluene		Invalid Compound ID	zhangji	06/25/20 16:10
HMX		Invalid Compound ID	zhangji	06/25/20 16:10
MNX		Invalid Compound ID	zhangji	06/25/20 16:10
Tetryl		Invalid Compound ID	zhangji	06/25/20 16:10

Lab Sample ID: CCV 280-499988/32 Client Sample ID:

Date Analyzed: 06/25/20 01:51 Lab File ID: 06240032.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.71	Baseline	zhangji	06/25/20 15:55

Lab Sample ID: CCV 280-499988/33 Client Sample ID:

Date Analyzed: 06/25/20 02:14 Lab File ID: 06240033.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.62	Baseline	zhangji	06/25/20 16:10
DNX	6.94	Baseline	zhangji	06/25/20 16:10

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 499989

Lab Sample ID: CCV 280-499989/32 Client Sample ID:

Date Analyzed: 06/25/20 01:51 Lab File ID: 06240032.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.71	Baseline	zhangji	06/25/20 15:55

Lab Sample ID: CCV 280-499989/33 Client Sample ID:

Date Analyzed: 06/25/20 02:14 Lab File ID: 06240033.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.62	Baseline	zhangji	06/25/20 16:10
DNX	6.94	Baseline	zhangji	06/25/20 16:10

Lab Sample ID: MB 280-499406/1-A Client Sample ID:

Date Analyzed: 06/25/20 02:37 Lab File ID: 06240034.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Nitrotoluene		Invalid Compound ID	zhangji	06/25/20 16:11
MNX		Invalid Compound ID	zhangji	06/25/20 16:11

Lab Sample ID: LCSD 280-499406/5-A Client Sample ID:

Date Analyzed: 06/25/20 04:09 Lab File ID: 06240038.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.39	Baseline	zhangji	06/25/20 16:12
1,2-Dinitrobenzene	8.75	Baseline	zhangji	06/25/20 16:12

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 499989

Lab Sample ID: CCV 280-499989/44 Client Sample ID:

Date Analyzed: 06/25/20 06:27 Lab File ID: 06240044.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.72	Baseline	zhangji	06/25/20 15:54

Lab Sample ID: CCV 280-499989/45 Client Sample ID:

Date Analyzed: 06/25/20 06:50 Lab File ID: 06240045.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.63	Baseline	zhangji	06/25/20 16:14
DNX	6.94	Baseline	zhangji	06/25/20 16:14

Lab Sample ID: 280-137736-10 Client Sample ID: PZ020-20A

Date Analyzed: 06/25/20 08:22 Lab File ID: 06240049.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	7.78	Baseline	zhangji	06/25/20 16:15
1,2-Dinitrobenzene	8.73	Baseline	zhangji	06/25/20 16:15
1,3,5-Trinitrobenzene	8.92	Baseline	zhangji	06/25/20 16:15
Nitrobenzene	9.91	Baseline	zhangji	06/25/20 16:16
2-Amino-4,6-dinitrotoluene		Invalid Compound ID	zhangji	06/25/20 16:15
3-Nitrotoluene		Invalid Compound ID	zhangji	06/25/20 16:16
4-Amino-2,6-dinitrotoluene		Invalid Compound ID	zhangji	06/25/20 16:15
MNX		Baseline	zhangji	06/25/20 16:15
Tetryl		Baseline	zhangji	06/25/20 16:16

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 499989

Lab Sample ID: 280-137736-11 Client Sample ID: G0087-20A

Date Analyzed: 06/25/20 08:45 Lab File ID: 06240050.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.70	Baseline	zhangji	06/25/20 16:16
RDX	7.78	Baseline	zhangji	06/25/20 16:16
1,2-Dinitrobenzene	8.74	Baseline	zhangji	06/25/20 16:16
3-Nitrotoluene		Invalid Compound ID	zhangji	06/25/20 16:16
4-Nitrotoluene		Invalid Compound ID	zhangji	06/25/20 16:16

Lab Sample ID: 280-137736-12 Client Sample ID: G0088-20A

Date Analyzed: 06/25/20 09:08 Lab File ID: 06240051.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Nitrotoluene		Invalid Compound ID	zhangji	06/25/20 16:17
MNX		Invalid Compound ID	zhangji	06/25/20 16:16
Tetryl		Invalid Compound ID	zhangji	06/25/20 16:16

Lab Sample ID: 280-137736-13 Client Sample ID: G0089-20A

Date Analyzed: 06/25/20 09:31 Lab File ID: 06240052.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.74	Baseline	zhangji	06/25/20 16:17
1,3,5-Trinitrobenzene	8.92	Baseline	zhangji	06/25/20 16:17
1,3-Dinitrobenzene		Invalid Compound ID	zhangji	06/25/20 16:17
2-Amino-4,6-dinitrotoluene		Invalid Compound ID	zhangji	06/25/20 16:17
3-Nitrotoluene		Invalid Compound ID	zhangji	06/25/20 16:17
4-Amino-2,6-dinitrotoluene		Invalid Compound ID	zhangji	06/25/20 16:17
MNX		Invalid Compound ID	zhangji	06/25/20 16:17
Nitrobenzene		Invalid Compound ID	zhangji	06/25/20 16:17
Tetryl		Invalid Compound ID	zhangji	06/25/20 16:17

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 499989

Lab Sample ID: CCV 280-499989/56 Client Sample ID:

Date Analyzed: 06/25/20 11:03 Lab File ID: 06240056.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.71	Baseline	zhangji	06/25/20 15:54

Lab Sample ID: CCV 280-499989/57 Client Sample ID:

Date Analyzed: 06/25/20 11:26 Lab File ID: 06240057.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.62	Baseline	zhangji	06/25/20 16:19
DNX	6.93	Baseline	zhangji	06/25/20 16:19

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 500316

Lab Sample ID: CCV 280-500316/7 Client Sample ID:

Date Analyzed: 06/26/20 17:12 Lab File ID: 06260007.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.71	Baseline	zhangji	06/26/20 17:46

Lab Sample ID: CCV 280-500316/9 Client Sample ID:

Date Analyzed: 06/26/20 17:58 Lab File ID: 06260009.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.62	Baseline	zhangji	06/26/20 18:38
DNX	6.94	Baseline	zhangji	06/26/20 18:38

Lab Sample ID: 280-137736-4 DL Client Sample ID: G0123-20A DL

Date Analyzed: 06/26/20 18:21 Lab File ID: 06260010.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.71	Baseline	zhangji	06/26/20 18:57
1,2-Dinitrobenzene	8.76	Baseline	zhangji	06/26/20 18:57
Tetryl		Invalid Compound ID	zhangji	06/26/20 18:57

Lab Sample ID: 280-137736-6 DL Client Sample ID: G0096-20A DL

Date Analyzed: 06/26/20 18:44 Lab File ID: 06260011.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.72	Baseline	zhangji	06/26/20 19:10
MNX	7.38	Baseline	zhangji	06/26/20 19:11
RDX	7.79	Baseline	zhangji	06/26/20 19:11
Tetryl		Invalid Compound ID	zhangji	06/26/20 19:11

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 500316

Lab Sample ID: 280-137736-7 DL Client Sample ID: G0296-20A DL

Date Analyzed: 06/26/20 19:07 Lab File ID: 06260012.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.71	Baseline	zhangji	06/26/20 19:47
MNX	7.39	Baseline	zhangji	06/26/20 19:47
RDX	7.79	Baseline	zhangji	06/26/20 19:47
1,3-Dinitrobenzene		Invalid Compound ID	zhangji	06/26/20 19:47
2,4,6-Trinitrotoluene		Invalid Compound ID	zhangji	06/26/20 19:47
2-Nitrotoluene		Invalid Compound ID	zhangji	06/26/20 19:47
4-Amino-2,6-dinitrotoluene		Invalid Compound ID	zhangji	06/26/20 19:47
4-Nitrotoluene		Invalid Compound ID	zhangji	06/26/20 19:47
Tetryl		Invalid Compound ID	zhangji	06/26/20 19:47
3-Nitrotoluene	13.89	Baseline	zhangji	06/26/20 19:47

Lab Sample ID: 280-137736-16 Client Sample ID: G0093-20A

Date Analyzed: 06/26/20 19:30 Lab File ID: 06260013.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.38	Baseline	zhangji	06/26/20 19:55
RDX	7.77	Baseline	zhangji	06/26/20 19:55
1,2-Dinitrobenzene	8.76	Baseline	zhangji	06/26/20 19:55
1,3,5-Trinitrobenzene	8.94	Baseline	zhangji	06/26/20 19:55
Nitrobenzene	9.96	Baseline	zhangji	06/26/20 19:55
2,4,6-Trinitrotoluene		Invalid Compound ID	zhangji	06/26/20 19:55
4-Nitrotoluene		Invalid Compound ID	zhangji	06/26/20 19:55
Tetryl		Baseline	zhangji	06/26/20 19:55

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 500316

Lab Sample ID: LCSD 280-499406/3-A Client Sample ID:

Date Analyzed: 06/26/20 20:39 Lab File ID: 015-1401.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.71	Baseline	zhangji	06/26/20 21:11

Lab Sample ID: CCV 280-500316/20 Client Sample ID:

Date Analyzed: 06/26/20 22:34 Lab File ID: 06260020.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.71	Baseline	zhangji	06/27/20 11:04

Lab Sample ID: CCV 280-500316/22 Client Sample ID:

Date Analyzed: 06/26/20 23:20 Lab File ID: 06260022.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.62	Baseline	zhangji	06/27/20 11:08
DNX	6.94	Baseline	zhangji	06/27/20 11:08

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 500691

Lab Sample ID: CCV 280-500691/21 Client Sample ID:

Date Analyzed: 06/30/20 23:41 Lab File ID: 06300021.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.72	Baseline	zhangji	07/01/20 14:17
2-Amino-4,6-dinitrotoluene	11.78	Baseline	zhangji	07/01/20 14:17
2,6-Dinitrotoluene	11.91	Baseline	zhangji	07/01/20 14:17

Lab Sample ID: CCV 280-500691/22 Client Sample ID:

Date Analyzed: 07/01/20 00:04 Lab File ID: 06300022.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.61	Baseline	zhangji	07/01/20 14:18
DNX	6.94	Baseline	zhangji	07/01/20 14:18

Lab Sample ID: MB 280-500616/1-A Client Sample ID:

Date Analyzed: 07/01/20 00:51 Lab File ID: 06300024.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX		Invalid Compound ID	zhangji	07/01/20 14:17

Lab Sample ID: LCSD 280-500616/3-A Client Sample ID:

Date Analyzed: 07/01/20 01:37 Lab File ID: 06300026.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.72	Baseline	zhangji	07/01/20 14:19

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 500691

Lab Sample ID: LCS 280-500616/4-A Client Sample ID:

Date Analyzed: 07/01/20 02:00 Lab File ID: 06300027.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.39	Baseline	zhangji	07/01/20 14:19
1,2-Dinitrobenzene	8.78	Baseline	zhangji	07/01/20 14:20

Lab Sample ID: 280-137736-10 RE Client Sample ID: PZ020-20A RE

Date Analyzed: 07/01/20 02:46 Lab File ID: 06300029.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
RDX	7.80	Baseline	zhangji	07/01/20 14:22
1,2-Dinitrobenzene	8.77	Baseline	zhangji	07/01/20 14:22
1,3,5-Trinitrobenzene	8.95	Baseline	zhangji	07/01/20 14:22
1,3-Dinitrobenzene		Invalid Compound ID	zhangji	07/01/20 14:21
2,4-Dinitrotoluene		Invalid Compound ID	zhangji	07/01/20 14:22
2-Nitrotoluene		Invalid Compound ID	zhangji	07/01/20 14:22
3-Nitrotoluene		Invalid Compound ID	zhangji	07/01/20 14:21
MNX		Invalid Compound ID	zhangji	07/01/20 14:21
Tetryl		Invalid Compound ID	zhangji	07/01/20 14:21
2,4,6-Trinitrotoluene	11.29	Baseline	zhangji	07/01/20 14:22
4-Amino-2,6-dinitrotoluene	11.47	Baseline	zhangji	07/01/20 14:22
2-Amino-4,6-dinitrotoluene	11.76	Baseline	zhangji	07/01/20 14:22

Lab Sample ID: 280-137736-11 RE Client Sample ID: G0087-20A RE

Date Analyzed: 07/01/20 03:09 Lab File ID: 06300030.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.71	Baseline	zhangji	07/01/20 14:23
RDX	7.80	Baseline	zhangji	07/01/20 14:23
1,2-Dinitrobenzene	8.78	Baseline	zhangji	07/01/20 14:23
4-Nitrotoluene	13.32	Baseline	zhangji	07/01/20 14:23

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 500691

Lab Sample ID: 280-137736-12 RE Client Sample ID: G0088-20A RE

Date Analyzed: 07/01/20 03:32 Lab File ID: 06300031.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.78	Baseline	zhangji	07/01/20 14:24
1,3,5-Trinitrobenzene	8.95	Baseline	zhangji	07/01/20 14:24
2,4-Dinitrotoluene		Invalid Compound ID	zhangji	07/01/20 14:24
2,6-Dinitrotoluene		Baseline	zhangji	07/01/20 14:57
2-Nitrotoluene		Invalid Compound ID	zhangji	07/01/20 14:24
3-Nitrotoluene		Invalid Compound ID	zhangji	07/01/20 14:24
4-Amino-2,6-dinitrotoluene		Baseline	zhangji	07/01/20 14:57
MNX		Invalid Compound ID	zhangji	07/01/20 14:23
Tetryl		Invalid Compound ID	zhangji	07/01/20 14:23
2,4,6-Trinitrotoluene	11.30	Baseline	zhangji	07/01/20 14:57
4-Nitrotoluene	13.37	Baseline	zhangji	07/01/20 14:24

Lab Sample ID: 280-137736-13 RE Client Sample ID: G0089-20A RE

Date Analyzed: 07/01/20 03:54 Lab File ID: 06300032.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dinitrobenzene	8.77	Baseline	zhangji	07/01/20 14:58
1,3,5-Trinitrobenzene	8.94	Baseline	zhangji	07/01/20 14:58
2-Amino-4,6-dinitrotoluene		Invalid Compound ID	zhangji	07/01/20 14:58
4-Amino-2,6-dinitrotoluene		Invalid Compound ID	zhangji	07/01/20 14:58
MNX		Invalid Compound ID	zhangji	07/01/20 14:58
Tetryl		Invalid Compound ID	zhangji	07/01/20 14:58

Lab Sample ID: CCV 280-500691/34 Client Sample ID:

Date Analyzed: 07/01/20 04:41 Lab File ID: 06300034.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.72	Baseline	zhangji	07/01/20 14:59

8330A

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Analysis Batch Number: 500691

Lab Sample ID: CCV 280-500691/35 Client Sample ID:

Date Analyzed: 07/01/20 05:04 Lab File ID: 06300035.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.62	Baseline	zhangji	07/01/20 14:59
DNX	6.94	Baseline	zhangji	07/01/20 14:59

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
350.1 cal_00421	06/30/20	06/23/20	Di Water, Lot na	100 mL	NH3 CAL STD_00031	10 mL	Ammonia	100 mg/L
.NH3 CAL STD_00031	08/31/20	Ricca, Lot 2902E25			(Purchased Reagent)		Ammonia	1000 mg/L
350.1 ICV_00409	06/30/20	06/23/20	na, Lot na	100 mL	NH3 ICV STD_00027	10 mL	Ammonia	100.2 mg/L
.NH3 ICV STD_00027	04/01/21	Inorganic Ventures, Lot N2-NH669544			(Purchased Reagent)		Ammonia	1002 mg/L
8330 DMT_00005	03/31/20	01/21/20	Acetonitrile, Lot 231453	5 mL	MNX,TNX,DNX_00032	1 mL	DNX	20.02 ug/mL
							MNX	23.34 ug/mL
							TNX	20.02 ug/mL
.MNX,TNX,DNX_00032	12/31/19	ULTRA Scientific, Lot CS-5628			(Purchased Reagent)		DNX	100.1 ug/mL
							MNX	116.7 ug/mL
							TNX	100.1 ug/mL
8330 DMT_00006	02/28/21	04/15/20	Acetonitrile, Lot ACN_00232	5 mL	MNX,TNX,DNX_00043	1 mL	DNX	20.02 ug/mL
							MNX	23.34 ug/mL
							TNX	20.02 ug/mL
.MNX,TNX,DNX_00043	02/28/21	ULTRA Scientific, Lot 006516106			(Purchased Reagent)		DNX	100.1 ug/mL
							MNX	116.7 ug/mL
							TNX	100.1 ug/mL
8330 LCS_00095	07/24/20	01/24/20	Acetonitrile, Lot ACN_00231	100 mL	8330LCSMix1_00113	1 mL	1,3,5-Trinitrobenzene	10 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							2,4,6-Trinitrotoluene	10 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	10 ug/mL
							RDX	10 ug/mL
					8330LCSmix2_00009	1 mL	2,6-Dinitrotoluene	10 ug/mL
							2-Amino-4,6-dinitrotoluene	10 ug/mL
							2-Nitrotoluene	10 ug/mL
							3-Nitrotoluene	10 ug/mL
							4-Amino-2,6-dinitrotoluene	10 ug/mL
							4-Nitrotoluene	10 ug/mL
							Tetryl	10 ug/mL
.8330LCSMix1_00113	07/31/24	Restek, Lot A0151407			(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
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
.8330LCSmix2_00009	05/31/24	Restek, Lot A0149387			(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetryl	1000 ug/mL
8330 LCS_00098	07/31/20	04/28/20	Acetonitrile, Lot Acetonitrile_00233	100 mL	8330LCSMix1_00111	1 mL	1,3,5-Trinitrobenzene	10 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							2,4,6-Trinitrotoluene	10 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	10 ug/mL
							RDX	10 ug/mL
					8330LCSmix2_00011	1 mL	2,6-Dinitrotoluene	10 ug/mL
							2-Amino-4,6-dinitrotoluene	10 ug/mL
							2-Nitrotoluene	10 ug/mL
							3-Nitrotoluene	10 ug/mL
							4-Amino-2,6-dinitrotoluene	10 ug/mL
							4-Nitrotoluene	10 ug/mL
							Tetryl	10 ug/mL
.8330LCSMix1_00111	10/28/20		Restek, Lot A0151407		(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
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
.8330LCSmix2_00011	10/28/20		Restek, Lot A0157533		(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							Tetryl	1000 ug/mL
8330 LCS_00099	11/11/20	06/02/20	Acetonitrile, Lot Acetonitrile_00044	25 mL	8330 LCSMix2_00106	0.25 mL	2,6-Dinitrotoluene	10 ug/mL
							2-Amino-4,6-dinitrotoluene	10 ug/mL
							2-Nitrotoluene	10 ug/mL
							3-Nitrotoluene	10 ug/mL
							4-Amino-2,6-dinitrotoluene	10 ug/mL
							4-Nitrotoluene	10 ug/mL
							Tetryl	10 ug/mL
					8330_NG_AUX_00001	1 mL	Nitroglycerin	100 ug/mL
					8330_NG_AUX_00002	1 mL	Nitroglycerin	100 ug/mL
					8330_NG_AUX_00003	0.5 mL	Nitroglycerin	100 ug/mL
					8330_PETN_Stk_00081	0.5 mL	PETN	100 ug/mL
					8330LCSMix1_00112	0.25 mL	1,3,5-Trinitrobenzene	10 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							2,4,6-Trinitrotoluene	10 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							HMX	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	10 ug/mL
							RDX	10 ug/mL
					PicricARestek_00090	0.25 mL	2,4,6-Trinitrophenol	10 ug/mL
.8330 LCSMix2_00106	11/11/20		Restek, Lot A0141002		(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							Tetryl	1000 ug/mL
.8330_NG_AUX_00001	06/02/21		Restek, Lot A0153378		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.8330_NG_AUX_00002	06/02/21		Restek, Lot A0153378		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.8330_NG_AUX_00003	06/02/21		Restek, Lot A0153378		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.8330_PETN_Stk_00081	03/31/21		Restek, Lot A0136306		(Purchased Reagent)		PETN	5000 ug/mL
.8330LCSMix1_00112	11/11/20		Restek, Lot A0151407		(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
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
.PicricARestek_00090	06/02/21		Restek, Lot A0131892		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
8330_OP_DMT_00006	02/24/21	02/24/20	Acetonitrile, Lot 0000196715	10 mL	MNX,TNX,DNX_00042	1 mL	MNX	11.67 ug/mL
.MNX,TNX,DNX_00042	02/28/21		ULTRA Scientific, Lot 006516106		(Purchased Reagent)		MNX	116.7 ug/mL
8330_OP_DMT_00008	02/28/21	04/30/20	Acetonitrile, Lot 0000249516	10 mL	MNX,TNX,DNX_00046	1 mL	DNX	10.01 ug/mL
							MNX	11.67 ug/mL
							TNX	10.01 ug/mL
.MNX,TNX,DNX_00046	02/28/21		ULTRA Scientific, Lot 006516106		(Purchased Reagent)		DNX	100.1 ug/mL
							MNX	116.7 ug/mL
							TNX	100.1 ug/mL
8330IntermStk_00061	09/09/21	01/09/20	Acetonitrile, Lot 130057	10 mL	8330_NG_Stk_00075	200 uL	Nitroglycerin	100 ug/mL
					8330_PETN_Stk_00087	200 uL	PETN	100 ug/mL
					8330ICALStock_00030	1 mL	1,3,5-Trinitrobenzene	10.02 ug/mL
							1,3-Dinitrobenzene	10.02 ug/mL
							2,4,6-Trinitrotoluene	10.04 ug/mL
							2,4-Dinitrotoluene	10.04 ug/mL
							2,6-Dinitrotoluene	10.04 ug/mL
							2-Amino-4,6-dinitrotoluene	10.04 ug/mL
							2-Nitrotoluene	10 ug/mL
							3-Nitrotoluene	10.01 ug/mL
							4-Amino-2,6-dinitrotoluene	10.01 ug/mL
							4-Nitrotoluene	10.02 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	10.04 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							RDX	10 ug/mL
							Tetryl	10.02 ug/mL
							1,2-Dinitrobenzene	10 ug/mL
					8330PAStkPS_00061	1 mL	2,4,6-Trinitrophenol	10 ug/mL
.8330_NG_Stk_00075	08/31/22	Restek, Lot A0151571			(Purchased Reagent)		Nitroglycerin	5000 ug/mL
.8330_PETN_Stk_00087	11/30/22	Restek, Lot A0154763			(Purchased Reagent)		PETN	5000 ug/mL
.8330ICALStock_00030	03/03/22	01/09/20	Acetonitrile, Lot 130057	10 mL	8330 Stock_TS_00015	1 mL	1,3,5-Trinitrobenzene	100.2 ug/mL
							1,3-Dinitrobenzene	100.2 ug/mL
							2,4,6-Trinitrotoluene	100.4 ug/mL
							2,4-Dinitrotoluene	100.4 ug/mL
							2,6-Dinitrotoluene	100.4 ug/mL
							2-Amino-4,6-dinitrotoluene	100.4 ug/mL
							2-Nitrotoluene	100 ug/mL
							3-Nitrotoluene	100.1 ug/mL
							4-Amino-2,6-dinitrotoluene	100.1 ug/mL
							4-Nitrotoluene	100.2 ug/mL
							HMX	100 ug/mL
							Nitrobenzene	100.4 ug/mL
							RDX	100 ug/mL
							Tetryl	100.2 ug/mL
					8330SurrStock_00164	1 mL	1,2-Dinitrobenzene	100 ug/mL
..8330 Stock_TS_00015	03/31/22	Ultra Scientific, Lot CT-0801			(Purchased Reagent)		1,3,5-Trinitrobenzene	1002 ug/mL
							1,3-Dinitrobenzene	1002 ug/mL
							2,4,6-Trinitrotoluene	1004 ug/mL
							2,4-Dinitrotoluene	1004 ug/mL
							2,6-Dinitrotoluene	1004 ug/mL
							2-Amino-4,6-dinitrotoluene	1004 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1001 ug/mL
							4-Amino-2,6-dinitrotoluene	1001 ug/mL
							4-Nitrotoluene	1002 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1004 ug/mL
							RDX	1000 ug/mL
							Tetryl	1002 ug/mL
..8330SurrStock_00164	07/01/26	AccuStandard, Lot 216071012			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330PAStkPS_00061	09/09/21	AccuStandard, Lot 214121302-02			(Purchased Reagent)		2,4,6-Trinitrophenol	100 ug/mL
8330IntermStk_00064	09/09/21	04/06/20	Acetonitrile, Lot 130057	10 mL	8330_NG_Stk_00075	200 uL	Nitroglycerin	100 ug/mL
					8330_PETN_Stk_00087	200 uL	PETN	100 ug/mL
					8330ICALStock_00030	1 mL	1,3,5-Trinitrobenzene	10.02 ug/mL
							1,3-Dinitrobenzene	10.02 ug/mL
							2,4,6-Trinitrotoluene	10.04 ug/mL
							2,4-Dinitrotoluene	10.04 ug/mL
							2,6-Dinitrotoluene	10.04 ug/mL
							2-Amino-4,6-dinitrotoluene	10.04 ug/mL
							2-Nitrotoluene	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitrotoluene	10.01 ug/mL
							4-Amino-2,6-dinitrotoluene	10.01 ug/mL
							4-Nitrotoluene	10.02 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	10.04 ug/mL
							RDX	10 ug/mL
							Tetryl	10.02 ug/mL
							1,2-Dinitrobenzene	10 ug/mL
					8330PAStkPS_00061	1 mL	2,4,6-Trinitrophenol	10 ug/mL
.8330_NG_Stk_00075	08/31/22	Restek, Lot A0151571			(Purchased Reagent)		Nitroglycerin	5000 ug/mL
.8330_PETN_Stk_00087	11/30/22	Restek, Lot A0154763			(Purchased Reagent)		PETN	5000 ug/mL
.8330ICALStock_00030	03/03/22	01/09/20	Acetonitrile, Lot 130057	10 mL	8330 Stock_TS_00015	1 mL	1,3,5-Trinitrobenzene	100.2 ug/mL
							1,3-Dinitrobenzene	100.2 ug/mL
							2,4,6-Trinitrotoluene	100.4 ug/mL
							2,4-Dinitrotoluene	100.4 ug/mL
							2,6-Dinitrotoluene	100.4 ug/mL
							2-Amino-4,6-dinitrotoluene	100.4 ug/mL
							2-Nitrotoluene	100 ug/mL
							3-Nitrotoluene	100.1 ug/mL
							4-Amino-2,6-dinitrotoluene	100.1 ug/mL
							4-Nitrotoluene	100.2 ug/mL
							HMX	100 ug/mL
							Nitrobenzene	100.4 ug/mL
							RDX	100 ug/mL
							Tetryl	100.2 ug/mL
					8330SurrStock_00164	1 mL	1,2-Dinitrobenzene	100 ug/mL
..8330 Stock_TS_00015	03/31/22	Ultra Scientific, Lot CT-0801			(Purchased Reagent)		1,3,5-Trinitrobenzene	1002 ug/mL
							1,3-Dinitrobenzene	1002 ug/mL
							2,4,6-Trinitrotoluene	1004 ug/mL
							2,4-Dinitrotoluene	1004 ug/mL
							2,6-Dinitrotoluene	1004 ug/mL
							2-Amino-4,6-dinitrotoluene	1004 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1001 ug/mL
							4-Amino-2,6-dinitrotoluene	1001 ug/mL
							4-Nitrotoluene	1002 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1004 ug/mL
							RDX	1000 ug/mL
							Tetryl	1002 ug/mL
..8330SurrStock_00164	07/01/26	AccuStandard, Lot 216071012			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330PAStkPS_00061	09/09/21	AccuStandard, Lot 214121302-02			(Purchased Reagent)		2,4,6-Trinitrophenol	100 ug/mL
8330Surrogate_00110	05/17/20	12/17/19	Acetonitrile, Lot ACN_00223	250 mL	8330SurrStkSS_00145	0.25 mL	1,2-Dinitrobenzene	10 ug/mL
					8330SurrStkSS_00158	0.25 mL	1,2-Dinitrobenzene	10 ug/mL
					8330SurrStkSS_00160	1 mL	1,2-Dinitrobenzene	10 ug/mL
					8330SurrStkSS_00161	1 mL	1,2-Dinitrobenzene	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8330SurrStkSS_00145	03/31/23		Restek, Lot A0135839		(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330SurrStkSS_00158	07/31/24		Restek, Lot A0146866		(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330SurrStkSS_00160	10/28/22		Restek, Lot A0150790		(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
.8330SurrStkSS_00161	07/31/24		Restek, Lot A0150790		(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
8330Surrogate_00114	11/07/20	05/07/20	Acetonitrile, Lot ACN_00234	100 mL	8330SurrStkSS_00157	1 mL	1,2-Dinitrobenzene	10 ug/mL
.8330SurrStkSS_00157	11/07/20		Restek, Lot A0146866		(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
8330Surrogate_00116	11/15/20	05/15/20	Acetonitrile, Lot Acetonitrile_00044	200 mL	8330SurrStkSS_00168	1 mL	1,2-Dinitrobenzene	10 ug/mL
							1,2-Dinitrobenzene (Surr)	10 ug/mL
					8330SurrStkSS_00169	1 mL	1,2-Dinitrobenzene	10 ug/mL
							1,2-Dinitrobenzene (Surr)	10 ug/mL
.8330SurrStkSS_00168	11/15/20		Restek, Lot A0155113		(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
							1,2-Dinitrobenzene (Surr)	1000 ug/mL
.8330SurrStkSS_00169	11/15/20		Restek, Lot A0155113		(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL
							1,2-Dinitrobenzene (Surr)	1000 ug/mL
Alk daily lcs_00907	06/22/20	06/15/20	Di Water, Lot na	1000 mL	Alk stk std_00017	4 mL	Total Alkalinity as CaCO3	200 mg/L
.Alk stk std_00017	03/30/21		Fischer, Lot 191517		(Purchased Reagent)		Total Alkalinity as CaCO3	50 g/L
IC CAL cl/so4_00314	06/15/20	06/09/20	Di Water, Lot na	100 mL	IC CL cal_00060	25 mL	Chloride	250 mg/L
					IC sulfatecal_00059	25 mL	Sulfate	250 mg/L
.IC CL cal_00060	01/30/21		SPEX CertiPrep, Lot 4-176CL-2X		(Purchased Reagent)		Chloride	1000 mg/L
.IC sulfatecal_00059	01/30/21		SPEX CertiPrep, Lot 4-176SO4-2X		(Purchased Reagent)		Sulfate	1000 mg/L
IC CAL cl/so4_00317	07/06/20	06/29/20	Di Water, Lot na	100 mL	IC sulfatecal_00059	25 mL	Sulfate	250 mg/L
.IC sulfatecal_00059	01/30/21		SPEX CertiPrep, Lot 4-176SO4-2X		(Purchased Reagent)		Sulfate	1000 mg/L
IC Cal low_00528	06/12/20	06/05/20	Di Water, Lot NA	100 mL	IC BR ICV_00018	5 mL	Bromide	50 mg/L
					IC FL cal_00014	5 mL	Fluoride	50 mg/L
.IC BR ICV_00018	01/31/21		ricca, Lot 2907E22		(Purchased Reagent)		Bromide	1000 mg/L
.IC FL cal_00014	11/30/20		Ricca, Lot 4905E80		(Purchased Reagent)		Fluoride	1000 mg/L
IC LCS_01747	07/03/20	06/26/20	Di Water, Lot 27	200 mL	IC sulfatecal_00060	20 mL	Sulfate	100 mg/L as N
.IC sulfatecal_00060	05/30/21		SPEX CertiPrep, Lot 4-197SO4-2X		(Purchased Reagent)		Sulfate	1000 mg/L
IC SO4 ICV_00021	08/31/21		ERA, Lot 100819m		(Purchased Reagent)		Sulfate	1000 mg/L
ICMS/MSD WEEK_00655	07/06/20	06/29/20	Di Water, Lot NA	10 mL	IC SPK 6 ANIO_00022	5 mL	Sulfate	5000.51 mg/L
.IC SPK 6 ANIO_00022	09/29/20	10/01/19	Di Water, Lot NA	1000 mL	IC MS/MSD S04_00005	18.1408 g	Sulfate	10001 mg/L
..IC MS/MSD S04_00005	09/29/20		FISHER, Lot 147276		(Purchased Reagent)		Sulfate	0.5513 g/g
mv-Cent BFB_00002							1,2-Dichloroethene, Total	
							1,2-Dichloroethene, Total (URS)	
							1,3-Dichloropropene, Total	
							TAH	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Xylenes, Total (URS)	
					mv-IS/SS Tune_00001	10 mL	BFB	50 ug/mL
.mv-IS/SS Tune_00001	11/30/23		Restek, Lot A0143593		(Purchased Reagent)		BFB	250 ug/mL
MV-Gas A_00058	06/12/20	05/26/20	P&T Methanol, Lot 198123	12.5 mL	MV-569722_00010	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Dichlorofluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
					MV-569723_00005	1250 uL	2-Chloroethyl vinyl ether	250 ug/mL
.MV-569722_00010	11/30/21		RESTEK, Lot A0143158		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.MV-569723_00005	10/31/21		RESTEK, Lot A0142584		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
MV-Gas A_00059	06/26/20	06/10/20	P&T Methanol, Lot 198123	12.5 mL	MV-569722_00010	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
.MV-569722_00010	11/30/21		RESTEK, Lot A0143158		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
MV-Gas B_00060	06/05/20	05/18/20	P&T Methanol, Lot 198123	12.5 mL	MV-569722.sec_00010	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
.MV-569722.sec_00010	10/31/21		RESTEK, Lot A0142594		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MV-Gas B_00063	06/26/20	06/20/20	P&T Methanol, Lot 198123	12.5 mL	MV-569722.sec_00010	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
.MV-569722.sec_00010	10/31/21		RESTEK, Lot A0142594		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
mv-IS_SS_00001	06/13/20	12/13/19	P&T Methanol, Lot 198123	50 mL	mv-30241_00008	1000 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
					MV-567650_00028	1000 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.mv-30241_00008	10/31/22		Restek, Lot A0131578		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
.MV-567650_00028	11/30/22		Restek, Lot A0132615		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
mv-IS_SS_00006	11/07/20	05/07/20	P&T Methanol, Lot 198123	100 mL	mv-30241_00008	2000 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.mv-30241_00008	10/31/22		Restek, Lot A0131578		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
mv-IS_SS_00006	11/07/20	05/07/20	P&T Methanol, Lot 198123	100 mL	MV-567650_00028	2000 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.MV-567650_00028	11/30/22		Restek, Lot A0132615		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MV-MegaMain B_00031	10/24/20	04/24/20	P&T Methanol, Lot 181124	25 mL	MV-569721.sec_00006	800 uL	2-Butanone (MEK)	400 ug/mL
							2-Hexanone	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone (MIBK)	400 ug/mL
							Acetone	400 ug/mL
					MV-571992.sec_00005	1000 uL	1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							Benzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromochloromethane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Isopropylbenzene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							Styrene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	200 ug/mL
.MV-569721.sec_00006	08/31/21		RESTEK, Lot A0140519		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MV-571992.sec_00005	06/30/21		RESTEK, Lot A0144202		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
MV-MegaMainA_00034	10/31/20	04/28/20	P&T Methanol, Lot 181124	25 mL	MV-568720_00033	1250 uL	Acrolein	987.5 ug/mL
					MV-569721_00008	800 uL	2-Butanone (MEK)	400 ug/mL
							2-Hexanone	400 ug/mL
							4-Methyl-2-pentanone (MIBK)	400 ug/mL
							Acetone	400 ug/mL
					MV-569724_00025	1000 uL	Vinyl acetate	200 ug/mL
					MV-569727_00010	4000 uL	Cyclohexanone	4000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MV-571992_00004	1000 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromochloromethane	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromochloromethane	100 ug/mL
							Dibromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					MV-CUS17739_00005	2500 uL	1-Chlorohexane	100 ug/mL
							2-Pentanone	400 ug/mL
							sec-Butyl Alcohol	3000 ug/mL
.MV-568720_00033	04/30/21		RESTEK, Lot A0154578		(Purchased Reagent)		Acrolein	19750 ug/mL
.MV-569721_00008	10/31/21		RESTEK, Lot A0143988		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MV-569724_00025	07/31/21		RESTEK, Lot A0156559		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.MV-569727_00010	03/31/22		RESTEK, Lot A0146650		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.MV-571992_00004	06/30/21		RESTEK, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.MV-CUS17739_00005	12/31/21	Agilent, Lot 6503344			(Purchased Reagent)		1-Chlorohexane	1000 ug/mL
							2-Pentanone	4000 ug/mL
							sec-Butyl Alcohol	30000 ug/mL
MV-MegaMainA_00034	10/31/20	04/28/20	P&T Methanol, Lot 181124	25 mL	MV-571992_00004	1000 uL	Xylenes, Total	200 ug/mL
.MV-571992_00004	06/30/21	RESTEK, Lot A0143774			(Purchased Reagent)		Xylenes, Total	5000 ug/mL
NXN CAL INT_00535	06/23/20	06/16/20	Di Water, Lot NA	100 mL	NOXT Cal STD_00023	10 mL	Nitrate Nitrite as N	100 mg/L
.NOXT Cal STD_00023	12/31/20	RICCA, Lot 1906A84			(Purchased Reagent)		Nitrate Nitrite as N	1000 mg/L
NXN ICV INT_00516	06/23/20	06/16/20	Di Water, Lot NA	100 mL	NOXT ICV STD_00023	10 mL	Nitrate Nitrite as N	100 mg/L
.NOXT ICV STD_00023	03/11/21	ERA, Lot 130319m			(Purchased Reagent)		Nitrate Nitrite as N	1000 mg/L
RSK175methane_00010	04/16/22	Supelco Analytical, Lot 160-401480003-1			(Purchased Reagent)		Methane	650500 ug/L
RSK7gasMathes_00027	10/24/20	Matheson, Lot 9308634170			(Purchased Reagent)		Methane	6570.3 ug/L
RSK7gasMathes_00031	03/09/22	Matheson, Lot DL0396162			(Purchased Reagent)		Acetylene	10667 ug/L
							Ethane	12317 ug/L
							Ethylene	11490 ug/L
							Methane	6570.3 ug/L
SFD CAL INT_01770	09/08/20	06/19/20	Di Water, Lot NA	500 mL	50% NaOH_00018	2 mL	Sodium Hydroxide	2000 mg/L
					SFD CAL STK_00006	4.0601 g	Sulfide	1084.05 mg/L
.50% NaOH_00018	11/30/22	Fisher, Lot 1603D65			(Purchased Reagent)		Sodium Hydroxide	50 %
.SFD CAL STK_00006	10/01/23	ACROS, Lot A0390872			(Purchased Reagent)		Sulfide	0.1335 g/g
SFD CAL INT_01771	09/08/20	06/22/20	Di Water, Lot NA	500 mL	50% NaOH_00018	2 mL	Sodium Hydroxide	2000 mg/L
					SFD CAL STK_00006	4.2847 g	Sulfide	1144.01 mg/L
.50% NaOH_00018	11/30/22	Fisher, Lot 1603D65			(Purchased Reagent)		Sodium Hydroxide	50 %
.SFD CAL STK_00006	10/01/23	ACROS, Lot A0390872			(Purchased Reagent)		Sulfide	0.1335 g/g
TKN 25ppm_00809	07/13/20	06/10/20	Di Water, Lot 1	100 mL	TKN 100PPM_00122	25 mL	Nitrogen, Total Kjeldahl	25 mg/L
.TKN 100PPM_00122	07/13/20	06/10/20	Di Water, Lot 1	500 mL	TKN CAL STD_00017	50 mL	Nitrogen, Total Kjeldahl	100 mg/L
..TKN CAL STD_00017	01/31/21	nsi lab solutions, Lot 010617			(Purchased Reagent)		Nitrogen, Total Kjeldahl	1000 mg/L
TKN ICV 25_00094	07/13/20	06/10/20	DI water, Lot 1	100 mL	TKN ICV 100_00084	25 mL	Nitrogen, Total Kjeldahl	25 mg/L
.TKN ICV 100_00084	07/13/20	06/10/20	Di Water, Lot 1	500 mL	TKN ICV_00011	50 mL	Nitrogen, Total Kjeldahl	100 mg/L
..TKN ICV_00011	11/30/20	ERA, Lot 281018			(Purchased Reagent)		Nitrogen, Total Kjeldahl	1000 mg/L
TOC ICV Std_00043	08/31/20	Ricca, Lot 2908E72			(Purchased Reagent)		Dissolved Organic Carbon - Quad	1000 ppm
							DOC Result 1	1000 ppm
							DOC Result 2	1000 ppm
							DOC Result 3	1000 ppm
							DOC Result 4	1000 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
TOC ICV Std_00044	01/31/21		Ricca, Lot 1001C32		(Purchased Reagent)		Dissolved Organic Carbon - Quad	1000 ppm
							DOC Result 1	1000 ppm
							DOC Result 2	1000 ppm
							DOC Result 3	1000 ppm
							DOC Result 4	1000 ppm
TOC LCS Std_00048	06/30/21		Agilent, Lot 0006465171		(Purchased Reagent)		Dissolved Organic Carbon - Quad	1001 ppm
							DOC Result 1	1001 ppm
							DOC Result 2	1001 ppm
							DOC Result 3	1001 ppm
							DOC Result 4	1001 ppm
TOC LCS Std_00050	08/31/21		Agilent, Lot 0006475816		(Purchased Reagent)		Dissolved Organic Carbon - Quad	1001 ppm
							DOC Result 1	1001 ppm
							DOC Result 2	1001 ppm
							DOC Result 3	1001 ppm
							DOC Result 4	1001 ppm

Reagent

50% NaOH_00018

RICCA CHEMICAL COMPANY®

448 West Fork Dr
Arlington, TX 76012
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Sodium Hydroxide, 50% (w/w) (760 g/L), Analytical Reagent Grade

Lot Number: 1912569 **Product Number:** 7291

Manufacture Date: DEC 05, 2019
Expiration Date: NOV 2022

The specifications below are equivalent to the ACS Reagent Grade specifications for Sodium Hydroxide pellets, corrected for assay.
There is no ACS specification for 50% (w/w) Sodium Hydroxide solution.

Name	CAS#	Grade
Water	7732-18-5	Reagent
Sodium Hydroxide	1310-73-2	Reagent

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	
Assay (vs. Sulfuric Acid/Phenolphthalein)	50-52 % (w/w)	51 % (w/w)	723
Chloride (Cl)	max 0.002 %	< 0.002 %	
Heavy Metals (as Ag)	max 0.001 %	< 0.001 %	
Iron (Fe)	max 5 ppm	< 0.001 ppm	3126
NH_4OH Precipitate	max 0.01 %	0.004 %	
Nickel (Ni)	max 5 ppm	0.2 ppm	3136
Nitrogen Compounds (as N)	max 5 ppm	< 5 ppm	
Phosphate (PO_4)	max 5 ppm	< 5 ppm	
Potassium (K)	max 0.01 %	0.001 %	3141
Sodium Carbonate (Na_2CO_3)	max 0.1 %	0.02 %	
Sulfate (SO_4)	max 0.001 %	< 0.001 %	

Specification	Reference
Sodium Hydroxide Solution, 50%	ASTM (D 2187 E)
Sodium Hydroxide Solution, 50%	ASTM (D 2187 F)
Sodium hydroxide stock solution, about 50%	TAPPI (T 235 cm-85)
Sodium Hydroxide Solution	ASTM (D 2187 G)
Sodium Hydroxide Solution, 50%	ASTM (D 4548)
Sodium Hydroxide Solution (50% w/w)	ASTM (D 2036 A)
Sodium Hydroxide Solution (50% w/w)	ASTM (D 2036 B)
Sodium Hydroxide Solution (50% w/w)	ASTM (D 2036 C)
Sodium Hydroxide Solution (50% w/w)	ASTM (D 2036 D)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
7291-1	4 L natural poly	36 months
7291-16	500 mL natural poly	36 months

7291-5	20 L Cubitainer®	36 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Israel Alamudun (12/05/2019)
Quality Control Supervisor
This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Reagent

8330 LCS_00098

Preliminary Report

Eurofins TestAmerica, Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\CHHPLC_X\20200429-91143.b\04290006.D

Lims ID: C18column:B16162 Inj. Date: 29-Apr-2020 19:29:58

Worklist ID: 280-0091143-006 Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 0B_Sonc_	Limits 2 3535
3 HMX	0.1000	0.0988	98.8	65-135	66-115
7 RDX	0.1000	0.0968	96.8	68-130	69-122
8 2,4,6-Trinitrophenol	0.1000	0.1027	102.7	80-120	63-135
10 1,3,5-Trinitrobenzene	0.1000	0.1037	103.7	73-125	62-127
11 1,3-Dinitrobenzene	0.1000	0.1029	102.9	78-120	59-131
12 Nitrobenzene	0.1000	0.1031	103.1	65-134	46-144
14 Tetryl	0.1000	0.1003	100.3	64-128	56-131
15 Nitroglycerin	1.00	0.9742	97.4	74-127	70-125
16 2,4,6-Trinitrotoluene	0.1000	0.1014	101.4	71-123	46-139
17 4-Amino-2,6-dinitrotolu	0.1000	0.0973	97.3	76-125	43-120
18 2-Amino-4,6-dinitrotolu	0.1000	0.1006	100.6	79-120	46-124
19 2,6-Dinitrotoluene	0.1000	0.1019	101.9	77-127	51-130
20 2,4-Dinitrotoluene	0.1000	0.0984	98.4	78-120	53-127
21 o-Nitrotoluene	0.1000	0.1039	103.9	70-127	37-138
22 p-Nitrotoluene	0.1000	0.1015	101.5	71-127	41-137
23 m-Nitrotoluene	0.1000	0.1043	104.3	73-125	31-140
24 PETN	1.00	0.9068	90.7	73-127	67-127

Samples for Limit Group: 1, Lims Prep Method: 8330B_Sonc_10g

280-135793-A-1-A 280-135793-A-2-A 280-135793-A-3-A
280-135793-B-4-A 280-135793-A-5-A 280-135793-A-6-A
280-135871-A-1-A 280-135930-A-1-A 280-135930-A-2-A

Samples for Limit Group: 2, Lims Prep Method: 3535

480-168872-A-18-A 480-168872-A-19-A 480-168872-A-20-A
480-168872-A-21-A 600-204066-C-1-A

Reagent

8330 LCS_00099

Preliminary Report

Eurofins TestAmerica, Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\CHHPLC_X\20200604-92107.b\06040006.D

Lims ID: C18column:B16162 Inj. Date: 04-Jun-2020 15:10:48

Worklist ID: 280-0092107-006 Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3535	Limits 2 3535	Limits 3 3535
3 HMX	0.4000	0.4497	112.4	65-135	66-115	
7 RDX	0.4000	0.4082	102.1	68-130	69-122	
8 2,4,6-Trinitrophenol	0.4000	0.4552	113.8	80-120	63-135	
10 1,3,5-Trinitrobenzene	0.4000	0.4670	116.7	73-125	62-127	
11 1,3-Dinitrobenzene	0.4000	0.4525	113.1	78-120	59-131	
12 Nitrobenzene	0.4000	0.4580	114.5	65-134	46-144	
14 Tetryl	0.4000	0.4204	105.1	64-128	56-131	
15 Nitroglycerin	4.00	4.24	106.0	74-127	70-125	
16 2,4,6-Trinitrotoluene	0.4000	0.4581	114.5	71-123	46-139	
17 4-Amino-2,6-dinitrotolu	0.4000	0.3915	97.9	76-125	43-120	
18 2-Amino-4,6-dinitrotolu	0.4000	0.4340	108.5	79-120	46-124	
19 2,6-Dinitrotoluene	0.4000	0.4346	108.6	77-127	51-130	
20 2,4-Dinitrotoluene	0.4000	0.4315	107.9	78-120	53-127	
21 o-Nitrotoluene	0.4000	0.4112	102.8	70-127	37-138	
22 p-Nitrotoluene	0.4000	0.4272	106.8	71-127	41-137	
23 m-Nitrotoluene	0.4000	0.4348	108.7	73-125	31-140	
24 PETN	4.00	4.20	105.1	73-127	67-127	

Samples for Limit Group: 1, Lims Prep Method: 3535

280-136151-A-2-B	320-61052-D-3-A	320-61052-D-4-A
320-61052-D-5-A	320-61052-D-6-A	320-61052-D-7-A
320-61052-D-8-A	320-61052-D-9-A	320-61052-D-10-A
320-61052-D-11-A	320-61052-D-12-A	280-136408-B-2-A
280-136410-B-1-A	280-136946-A-6-A	280-136946-A-7-A
280-136946-A-8-A	280-136946-A-9-A	

Samples for Limit Group: 2, Lims Prep Method: 3535

280-136951-C-1-A	280-136951-C-2-A	280-136951-C-3-A

Samples for Limit Group: 3, Lims Prep Method: 3535

600-205634-D-1-A

Reagent

8330 LCSMix2_00106

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Testing Laboratory
Certificate #3222.02

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. : 31451 **Lot No.:** A0141002

Description : 8330 Calibration Mix #2

8330 Calibration Std #2 1000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : August 31, 2023 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Tetryl **CAS #** 479-45-8 **Purity** 99% (Lot 091120JLM)	1,000.0 µg/mL	+/- 5.9397 +/- 54.7830 +/- 63.8824	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	4-Amino-2,6-dinitrotoluene **CAS #** 19406-51-0 **Purity** 99% (Lot ER070908-01)	1,002.0 µg/mL	+/- 5.9516 +/- 54.8926 +/- 64.0101	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	2-Amino-4,6-dinitrotoluene **CAS #** 35572-78-2 **Purity** 98% (Lot 29550-55)	1,007.4 µg/mL	+/- 5.9839 +/- 55.1906 +/- 64.3577	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	2,6-Dinitrotoluene **CAS #** 606-20-2 **Purity** 99% (Lot BCBB8606V)	1,000.0 µg/mL	+/- 5.9397 +/- 54.7830 +/- 63.8824	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	2-Nitrotoluene **CAS #** 88-72-2 **Purity** 99% (Lot GA01)	1,004.0 µg/mL	+/- 5.9635 +/- 55.0021 +/- 64.1379	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	4-Nitrotoluene **CAS #** 99-99-0 **Purity** 99% (Lot FAU01)	1,002.0 µg/mL	+/- 5.9516 +/- 54.8926 +/- 64.0101	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	3-Nitrotoluene **CAS #** 99-08-1 **Purity** 98% (Lot FBO01)	1,003.5 µg/mL	+/- 5.9606 +/- 54.9758 +/- 64.1072	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

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

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

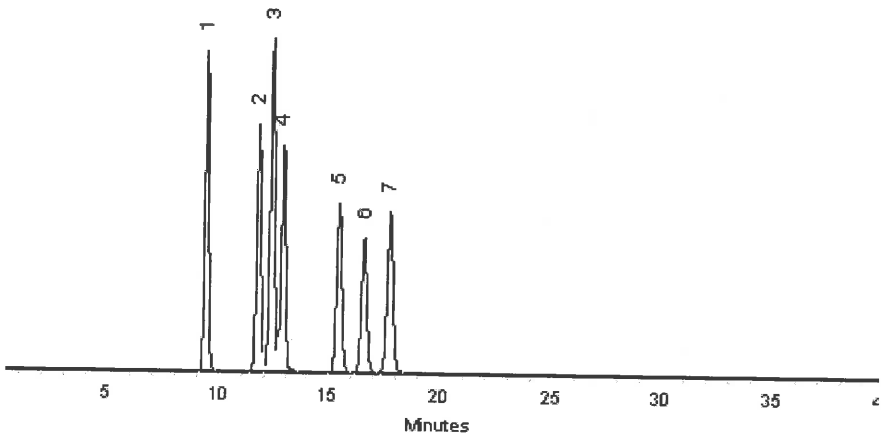
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

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.

Matt Fragassi - Mix Technician **Date Mixed:** 23-Aug-2018 **Balance:** B345965662

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 28-Aug-2018

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

8330 Stock_TS_00015

Agilent

Certificate of Analysis
ISO Guide 34

Stock Standard

Product Number: NAIM-833E **Page:** 1 of 2

Lot Number: CT-0801 **Lot Issue Date:** 25-Feb-2019 **Expiration Date:** 31-Mar-2022

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
HMX	002691-41-0	RM06237	1000 ± 5 µg/mL
RDX	000121-82-4	RM10915	1000 ± 5 µg/mL
1,3,5-trinitrobenzene	000099-35-4	RM06608	1002 ± 5 µg/mL
m-dinitrobenzene	000099-65-0	RM14290	1002 ± 5 µg/mL
nitrobenzene	000098-95-3	RM11472	1004 ± 5 µg/mL
2,4,6-trinitrotoluene (TNT)	000118-96-7	RM11972	1004 ± 5 µg/mL
2,4-dinitrotoluene	000121-14-2	RM10279	1004 ± 5 µg/mL
tetryl	000479-45-8	RM14651	1002 ± 5 µg/mL
2,6-dinitrotoluene	000606-20-2	NT00450	1004 ± 5 µg/mL
2-nitrotoluene	000088-72-2	NT01996	1000 ± 5 µg/mL
3-nitrotoluene	000099-08-1	NT02212	1001 ± 5 µg/mL
4-nitrotoluene	000099-99-0	NT02096	1002 ± 5 µg/mL
2-amino-4,6-dinitrotoluene	035572-78-2	RM04229	1004 ± 5 µg/mL
4-amino-2,6-dinitrotoluene	019406-51-0	RM04226	1001 ± 5 µg/mL

Matrix: acetonitrile

Storage: Store at Room Temperature (15° to 30°C).

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER
ISO Guide 34 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED TESTING LABORATORY
ISO17025 Cert No. AT-1937

Certificate of Analysis
ISO Guide 34

Stock Standard

Product Number: NAIM-833E **Page:** 2 of 2

Lot Number: CT-0801 **Lot Issue Date:** 25-Feb-2019 **Expiration Date:** 31-Mar-2022

Analyte	CAS#	Analyte Lot	True Value

Monica Bourgeois
QMS Representative

ISO Guide 34 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System

ISO17025 Cert No.
AT-1937

Reagent

8330_NG_AUX_00001

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

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.:** A0153378

Description : Nitroglycerin Standard

Nitroglycerin Standard 1,000µg/mL, Methanol, 1mL/ampul

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

Expiration Date : September 30, 2024 **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 170616JLM)	1,003.3 µg/mL	+/- 5.9595 µg/mL +/- 54.9656 µg/mL +/- 64.0953 µg/mL		Gravimetric Unstressed Stressed

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

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

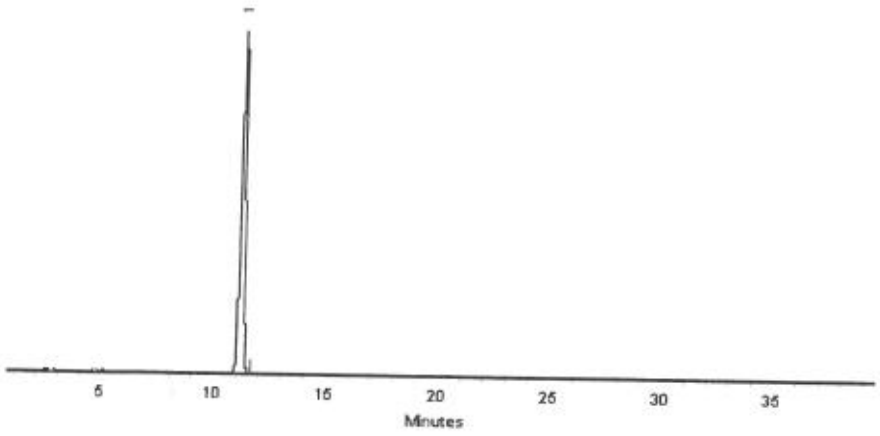
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

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.

Joseph Jaglowski - Mix Technician **Date Mixed:** 27-Sep-2019 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 01-Oct-2019

Manufactured under Restek's ISO 9001:2015
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 17034 and Guide 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:

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

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:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

8330_NG_AUX_00002

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CERTIFIED REFERENCE MATERIAL

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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.:** A0153378

Description : Nitroglycerin Standard

Nitroglycerin Standard 1,000µg/mL, Methanol, 1mL/ampul

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

Expiration Date : September 30, 2024 **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 170616JLM)	1,003.3 µg/mL	+/- 5.9595 µg/mL +/- 54.9656 µg/mL +/- 64.0953 µg/mL		Gravimetric Unstressed Stressed

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

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

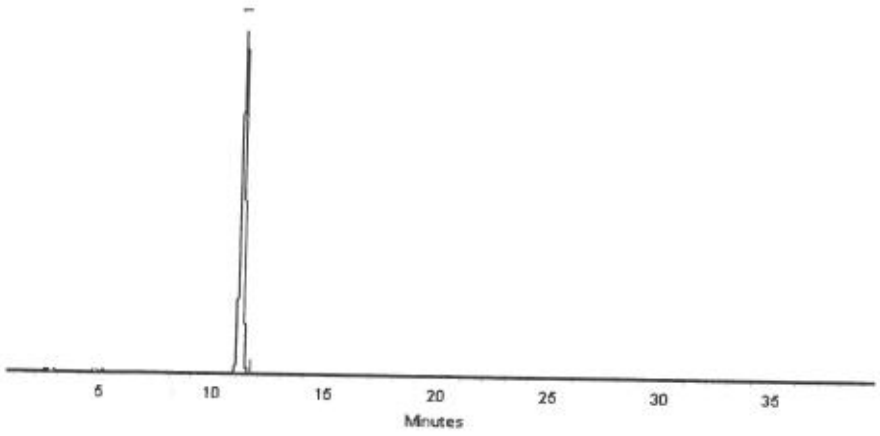
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

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.

Joseph Jaglowski - Mix Technician **Date Mixed:** 27-Sep-2019 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 01-Oct-2019

Manufactured under Restek's ISO 9001:2015
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 17034 and Guide 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:

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

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:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

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.:** A0153378

Description : Nitroglycerin Standard

Nitroglycerin Standard 1,000µg/mL, Methanol, 1mL/ampul

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

Expiration Date : September 30, 2024 **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 170616JLM)	1,003.3 µg/mL	+/- 5.9595 µg/mL +/- 54.9656 µg/mL +/- 64.0953 µg/mL		Gravimetric Unstressed Stressed

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

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

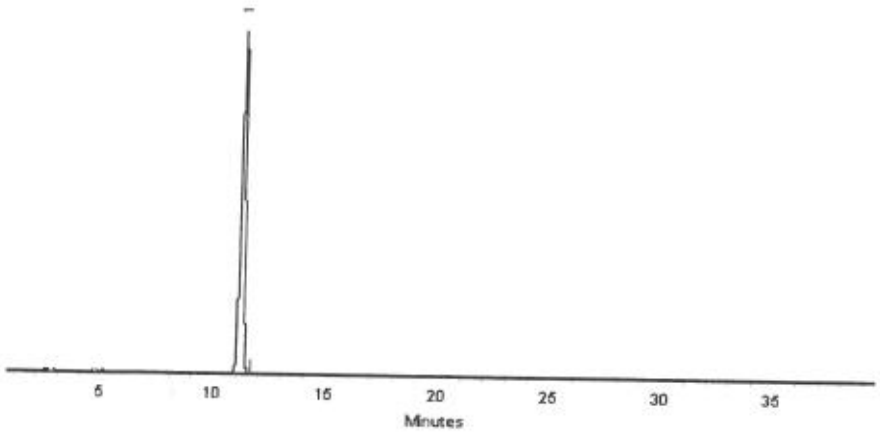
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

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.

Joseph Jaglowski - Mix Technician **Date Mixed:** 27-Sep-2019 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 01-Oct-2019

Manufactured under Restek's ISO 9001:2015 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 17034 and Guide 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:

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

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:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

8330_NG_Stk_00075

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CERTIFIED REFERENCE MATERIAL

Certificate of Composition

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ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 568871 **Lot No.:** A0151571

Description : Custom Nitroglycerin Standard

Custom Nitroglycerin Standard 5,000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : August 31, 2022 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Nitroglycerin	5,036.0 µg/mL	+/- 46.8321	µg/mL	Gravimetric
	CAS # 55-63-0 (Lot 170616JLM)		+/- 278.2306	µg/mL	Unstressed
	Purity 99%		+/- 323.7234	µg/mL	Stressed

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

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

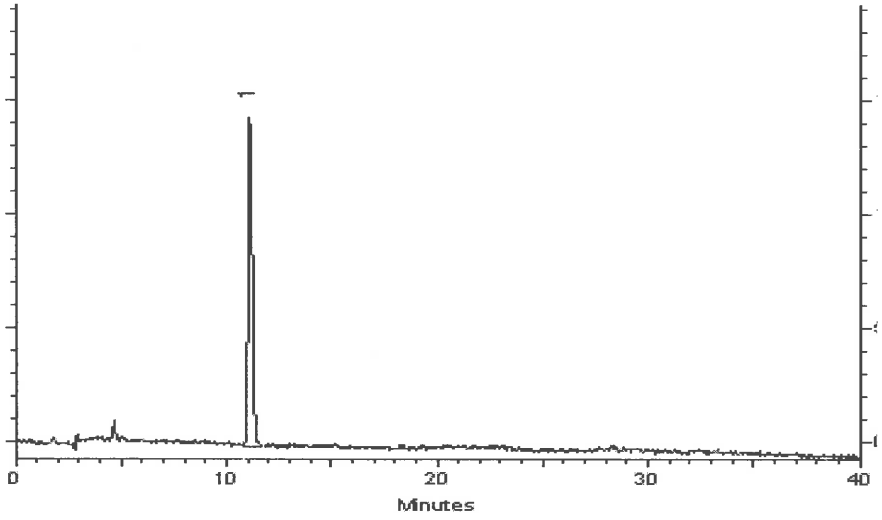
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

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.

Joseph J Jaglowski
Joseph Jaglowski - Mix Technician

Date Mixed: 05-Aug-2019 **Balance:** B707717271

Jennifer J Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 09-Aug-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

8330_PETN_Stk_00081

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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. : 568872 **Lot No.:** A0136306

Description : Custom PETN Standard

Custom PETN Standard 5,000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : March 31, 2021 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	PETN	5,028.0 µg/mL	+/- 46.7577	µg/mL	Gravimetric
	CAS # 78-11-5 (Lot 051108JLM)		+/- 277.7886	µg/mL	Unstressed
	Purity 99%		+/- 323.2092	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:
100%A

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.

Cydnei L. Crust
Cydnei L. Crust - Mix Technician

Date Mixed: 19-Mar-2018 **Balance:** 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 23-Mar-2018

REVIEWED

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:

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

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:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

Reagent

8330_PETN_Stk_00087

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Certificate #3222.02

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. : 568872 **Lot No.:** A0154763

Description : Custom PETN Standard

Custom PETN Standard 5,000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : November 30, 2022 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	PETN		5,024.0 µg/mL	+/- 46.7205	µg/mL	Gravimetric
	CAS # 78-11-5	(Lot 051108JLM)		+/- 277.5676	µg/mL	Unstressed
	Purity 99%			+/- 322.9521	µg/mL	Stressed

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

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

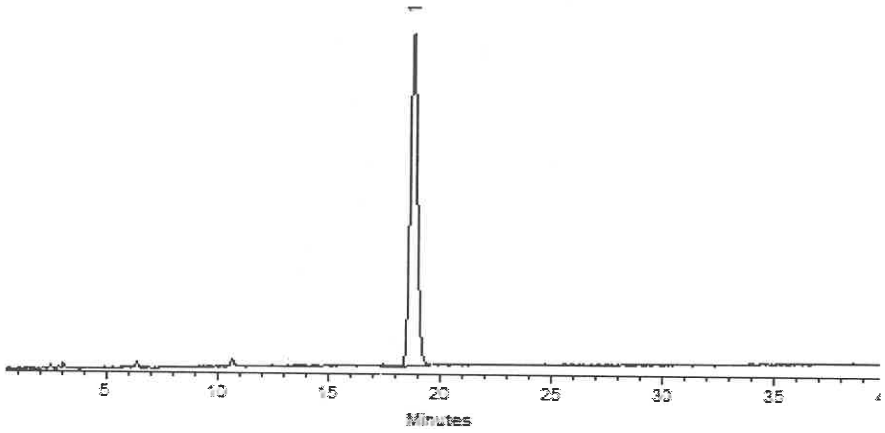
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

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.

Clara Windle - Operations Technician I

Date Mixed: 05-Nov-2019 **Balance:** B442140311

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 08-Nov-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

8330LCSMix1_00111

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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. : 31450 **Lot No.:** A0151407

Description : 8330 Calibration Mix #1

8330 Calibration Std #1 1000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : July 31, 2024 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	HMX		1,004.9 µg/mL	+/- 5.9689	µg/mL	Gravimetric
	CAS # 2691-41-0	(Lot 190402JLM)		+/- 55.0525	µg/mL	Unstressed
	Purity 97%			+/- 64.1967	µg/mL	Stressed
2	RDX		1,005.0 µg/mL	+/- 5.9694	µg/mL	Gravimetric
	CAS # 121-82-4	(Lot 080228JLM)		+/- 55.0569	µg/mL	Unstressed
	Purity 99%			+/- 64.2018	µg/mL	Stressed
3	1,3,5-Trinitrobenzene		1,003.0 µg/mL	+/- 5.9574	µg/mL	Gravimetric
	CAS # 99-35-4	(Lot DJ5QO)		+/- 54.9463	µg/mL	Unstressed
	Purity 97%			+/- 64.0727	µg/mL	Stressed
4	1,3-Dinitrobenzene		1,001.0 µg/mL	+/- 5.9456	µg/mL	Gravimetric
	CAS # 99-65-0	(Lot BCBN4329V)		+/- 54.8378	µg/mL	Unstressed
	Purity 99%			+/- 63.9463	µg/mL	Stressed
5	Nitrobenzene		1,001.0 µg/mL	+/- 5.9456	µg/mL	Gravimetric
	CAS # 98-95-3	(Lot SHBJ3622)		+/- 54.8378	µg/mL	Unstressed
	Purity 99%			+/- 63.9463	µg/mL	Stressed
6	2,4,6-Trinitrotoluene		1,005.0 µg/mL	+/- 5.9694	µg/mL	Gravimetric
	CAS # 118-96-7	(Lot 5737200)		+/- 55.0569	µg/mL	Unstressed
	Purity 99%			+/- 64.2018	µg/mL	Stressed
7	2,4-Dinitrotoluene		1,001.0 µg/mL	+/- 5.9456	µg/mL	Gravimetric
	CAS # 121-14-2	(Lot MKAA0690)		+/- 54.8378	µg/mL	Unstressed
	Purity 99%			+/- 63.9463	µg/mL	Stressed

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

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

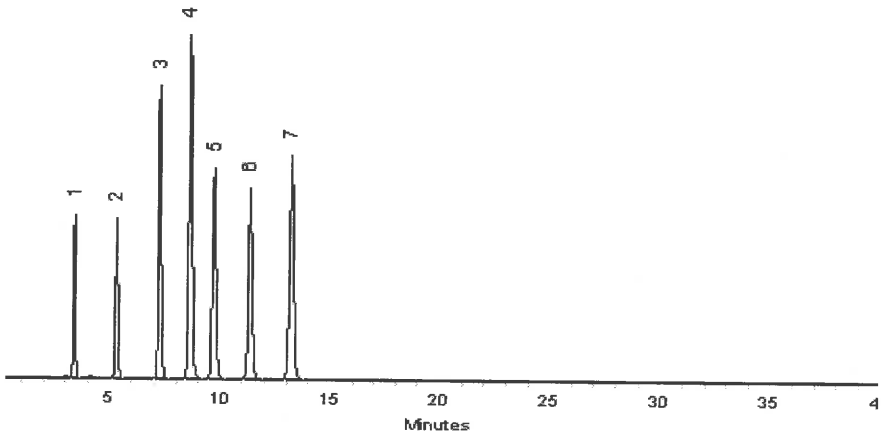
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

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.

Matt Fragassi - Mix Technician

Date Mixed: 30-Jul-2019 **Balance:** 1127510105

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Aug-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

8330LCSMix1_00112

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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. : 31450 **Lot No.:** A0151407

Description : 8330 Calibration Mix #1

8330 Calibration Std #1 1000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : July 31, 2024 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	HMX		1,004.9 µg/mL	+/- 5.9689	µg/mL	Gravimetric
	CAS # 2691-41-0	(Lot 190402JLM)		+/- 55.0525	µg/mL	Unstressed
	Purity 97%			+/- 64.1967	µg/mL	Stressed
2	RDX		1,005.0 µg/mL	+/- 5.9694	µg/mL	Gravimetric
	CAS # 121-82-4	(Lot 080228JLM)		+/- 55.0569	µg/mL	Unstressed
	Purity 99%			+/- 64.2018	µg/mL	Stressed
3	1,3,5-Trinitrobenzene		1,003.0 µg/mL	+/- 5.9574	µg/mL	Gravimetric
	CAS # 99-35-4	(Lot DJ5QO)		+/- 54.9463	µg/mL	Unstressed
	Purity 97%			+/- 64.0727	µg/mL	Stressed
4	1,3-Dinitrobenzene		1,001.0 µg/mL	+/- 5.9456	µg/mL	Gravimetric
	CAS # 99-65-0	(Lot BCBN4329V)		+/- 54.8378	µg/mL	Unstressed
	Purity 99%			+/- 63.9463	µg/mL	Stressed
5	Nitrobenzene		1,001.0 µg/mL	+/- 5.9456	µg/mL	Gravimetric
	CAS # 98-95-3	(Lot SHBJ3622)		+/- 54.8378	µg/mL	Unstressed
	Purity 99%			+/- 63.9463	µg/mL	Stressed
6	2,4,6-Trinitrotoluene		1,005.0 µg/mL	+/- 5.9694	µg/mL	Gravimetric
	CAS # 118-96-7	(Lot 5737200)		+/- 55.0569	µg/mL	Unstressed
	Purity 99%			+/- 64.2018	µg/mL	Stressed
7	2,4-Dinitrotoluene		1,001.0 µg/mL	+/- 5.9456	µg/mL	Gravimetric
	CAS # 121-14-2	(Lot MKAA0690)		+/- 54.8378	µg/mL	Unstressed
	Purity 99%			+/- 63.9463	µg/mL	Stressed

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

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

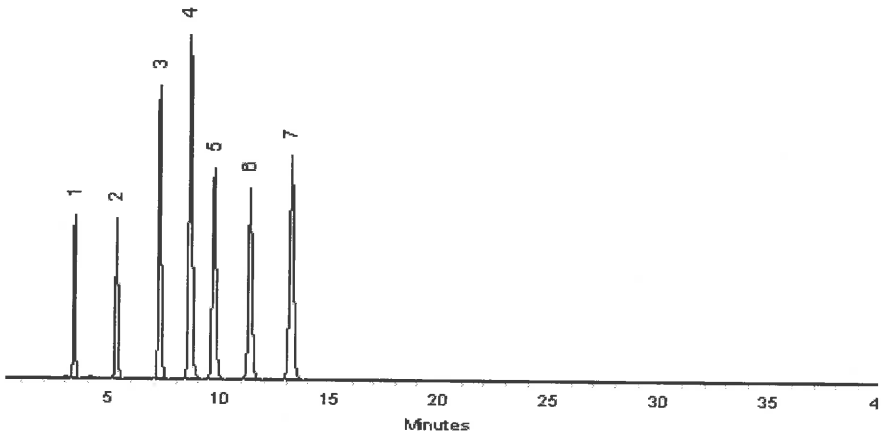
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

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.

Matt Fragassi - Mix Technician

Date Mixed: 30-Jul-2019 **Balance:** 1127510105

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Aug-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

8330LCSMix1_00113

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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. : 31450 **Lot No.:** A0151407

Description : 8330 Calibration Mix #1

8330 Calibration Std #1 1000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : July 31, 2024 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	HMX		1,004.9 µg/mL	+/- 5.9689	µg/mL	Gravimetric
	CAS # 2691-41-0	(Lot 190402JLM)		+/- 55.0525	µg/mL	Unstressed
	Purity 97%			+/- 64.1967	µg/mL	Stressed
2	RDX		1,005.0 µg/mL	+/- 5.9694	µg/mL	Gravimetric
	CAS # 121-82-4	(Lot 080228JLM)		+/- 55.0569	µg/mL	Unstressed
	Purity 99%			+/- 64.2018	µg/mL	Stressed
3	1,3,5-Trinitrobenzene		1,003.0 µg/mL	+/- 5.9574	µg/mL	Gravimetric
	CAS # 99-35-4	(Lot DJ5QO)		+/- 54.9463	µg/mL	Unstressed
	Purity 97%			+/- 64.0727	µg/mL	Stressed
4	1,3-Dinitrobenzene		1,001.0 µg/mL	+/- 5.9456	µg/mL	Gravimetric
	CAS # 99-65-0	(Lot BCBN4329V)		+/- 54.8378	µg/mL	Unstressed
	Purity 99%			+/- 63.9463	µg/mL	Stressed
5	Nitrobenzene		1,001.0 µg/mL	+/- 5.9456	µg/mL	Gravimetric
	CAS # 98-95-3	(Lot SHBJ3622)		+/- 54.8378	µg/mL	Unstressed
	Purity 99%			+/- 63.9463	µg/mL	Stressed
6	2,4,6-Trinitrotoluene		1,005.0 µg/mL	+/- 5.9694	µg/mL	Gravimetric
	CAS # 118-96-7	(Lot 5737200)		+/- 55.0569	µg/mL	Unstressed
	Purity 99%			+/- 64.2018	µg/mL	Stressed
7	2,4-Dinitrotoluene		1,001.0 µg/mL	+/- 5.9456	µg/mL	Gravimetric
	CAS # 121-14-2	(Lot MKAA0690)		+/- 54.8378	µg/mL	Unstressed
	Purity 99%			+/- 63.9463	µg/mL	Stressed

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

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

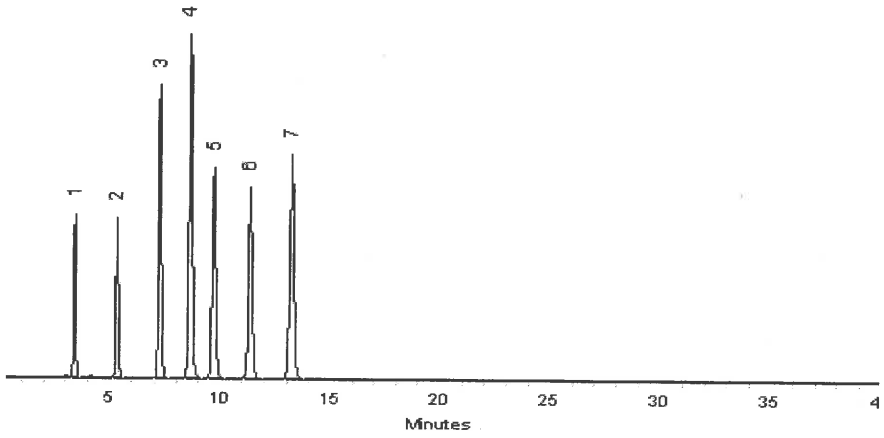
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

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.

Matt Fragassi - Mix Technician

Date Mixed: 30-Jul-2019 **Balance:** 1127510105

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Aug-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

8330LCSmix2_00009

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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. : 31451 **Lot No.:** A0149387

Description : 8330 Calibration Mix #2

8330 Calibration Std #2 1000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : May 31, 2024 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Tetryl **CAS #** 479-45-8 **Purity** 99%	(Lot 091120JLM)	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 55.0021 µg/mL +/- 64.1379 µg/mL	Gravimetric Unstressed Stressed
2	4-Amino-2,6-dinitrotoluene **CAS #** 19406-51-0 **Purity** 99%	(Lot ER070908-01)	1,000.0 µg/mL	+/- 5.9397 µg/mL +/- 54.7830 µg/mL +/- 63.8824 µg/mL	Gravimetric Unstressed Stressed
3	2-Amino-4,6-dinitrotoluene **CAS #** 35572-78-2 **Purity** 98%	(Lot 29550-55)	999.6 µg/mL	+/- 5.9373 µg/mL +/- 54.7611 µg/mL +/- 63.8568 µg/mL	Gravimetric Unstressed Stressed
4	2,6-Dinitrotoluene **CAS #** 606-20-2 **Purity** 99%	(Lot 1437483V)	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 55.0021 µg/mL +/- 64.1379 µg/mL	Gravimetric Unstressed Stressed
5	2-Nitrotoluene **CAS #** 88-72-2 **Purity** 99%	(Lot GA01)	1,010.0 µg/mL	+/- 5.9991 µg/mL +/- 55.3308 µg/mL +/- 64.5212 µg/mL	Gravimetric Unstressed Stressed
6	4-Nitrotoluene **CAS #** 99-99-0 **Purity** 99%	(Lot FAU01)	1,006.0 µg/mL	+/- 5.9753 µg/mL +/- 55.1117 µg/mL +/- 64.2657 µg/mL	Gravimetric Unstressed Stressed
7	3-Nitrotoluene **CAS #** 99-08-1 **Purity** 98%	(Lot 07329LG)	1,007.4 µg/mL	+/- 5.9839 µg/mL +/- 55.1906 µg/mL +/- 64.3577 µg/mL	Gravimetric Unstressed Stressed

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

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

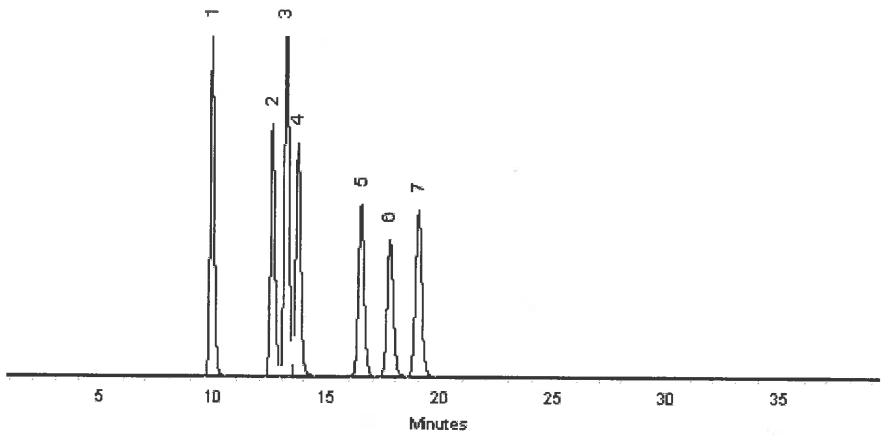
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

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.

Lane Kibe - Mix Technician

Date Mixed: 21-May-2019 **Balance:** 1127510105

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 23-May-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

8330LCSmix2_00011

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Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 31451 **Lot No.:** A0157533

Description : 8330 Calibration Mix #2

8330 Calibration Std #2 1000µg/mL, Acetonitrile, 1mL/ampul

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

Expiration Date : February 28, 2025 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Tetryl **CAS #** 479-45-8 (Lot 091120JLM) **Purity** 99%	1,004.0 µg/mL	+/- 5.9635 +/- 55.0021 +/- 64.1379	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	4-Amino-2,6-dinitrotoluene **CAS #** 19406-51-0 (Lot ER070908-01) **Purity** 99%	1,004.0 µg/mL	+/- 5.9635 +/- 55.0021 +/- 64.1379	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	2-Amino-4,6-dinitrotoluene **CAS #** 35572-78-2 (Lot 29550-55) **Purity** 98%	999.6 µg/mL	+/- 5.9373 +/- 54.7611 +/- 63.8568	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	2,6-Dinitrotoluene **CAS #** 606-20-2 (Lot BCBB8606) **Purity** 99%	1,002.0 µg/mL	+/- 5.9516 +/- 54.8926 +/- 64.0101	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	2-Nitrotoluene **CAS #** 88-72-2 (Lot BCBZ7826) **Purity** 99%	1,004.0 µg/mL	+/- 5.9635 +/- 55.0021 +/- 64.1379	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	4-Nitrotoluene **CAS #** 99-99-0 (Lot FAU01) **Purity** 99%	1,000.0 µg/mL	+/- 5.9397 +/- 54.7830 +/- 63.8824	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	3-Nitrotoluene **CAS #** 99-08-1 (Lot FBO01) **Purity** 98%	1,003.5 µg/mL	+/- 5.9606 +/- 54.9758 +/- 64.1072	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

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

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

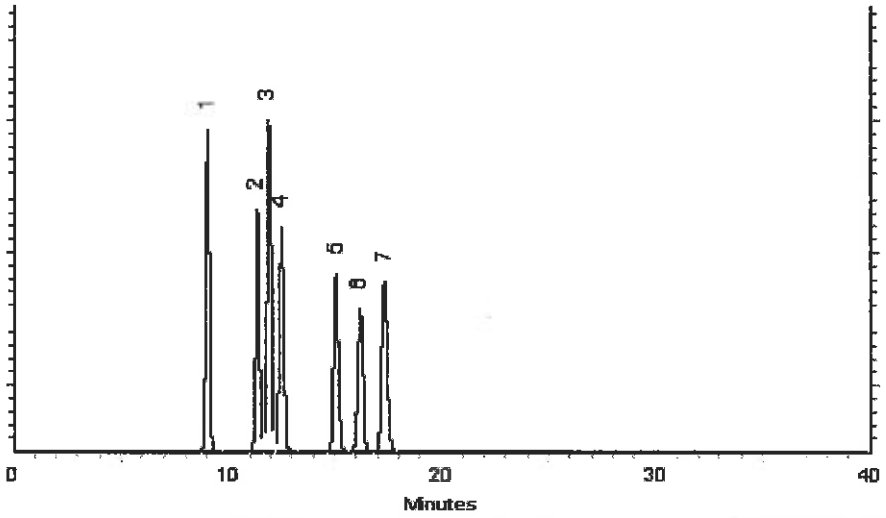
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

Det. Type:
Wavelength: 210nm & 254nm



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.

Clara Windle - Operations Technician I

Date Mixed: 06-Feb-2020 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 10-Feb-2020

Manufactured under Restek's ISO 9001:2015 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 17034 and Guide 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:

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

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:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

8330PAStkPS_00061

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: M-8330-ADD-3
Description: Picric acid
Lot: 214121302-02
Solvent: Acetonitrile (50%)
Methanol (50%)
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

Date Certified: Aug 9, 2019
Expiration: Sep 9, 2021
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463
ANAB ACCREDITED TESTING LABORATORY AT-1339
ilac-MRA

Component	CAS #	Purity % (HPLC)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Picric acid	88-89-1	99.1	100.1	99.2

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 822-275872-11

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 5/18

Page 196 of 2258

AccuStandard, Inc.
125 Market St., New Haven, CT 06513 USA
Tel: 203-786-5290 Fax: 203-786-5287

SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 - Product Identifiers

Catalog Name: M-8330-ADD-3

Description: Picric Acid in Acetonitrile/Methanol Blend

1.2 - Relevant Identified Uses of the Substance or Mixture

Laboratory Chemical Reference Material

1.3 - Supplier Details

Company: AccuStandard, Inc.
125 Market St.
New Haven, CT 06513 USA

Telephone Number: 203-786-5290

Fax: 203-786-5287

Email: edocs@accustandard.com

1.4 - Emergency Telephone Number

Emergency Phone #: AccuStandard, Inc.
1-203-502-7070 (USA)
+001-203-502-7070 (International)

24 hours / 7 days a week

SECTION 2 - HAZARDS IDENTIFICATION

2.1 - GHS Label Elements





Signal Word: Danger

Hazard Codes:

H225 - Highly Flammable (Flammable liquids, category 2)

H315 - Irritating to skin. (Skin corrosion/irritation, category 2)

H319 - Causes severe eye irritation. (Eye damage/irritation, category 2A)

H332 - Harmful if inhaled. (Acute toxicity, inhalation, category 4)

H336 - Overexposure may cause dizziness, nausea, muscle weakness, narcosis and respiratory failure.

H360 - California Proposition 65 Warning: This product contains a component (or components) that may cause birth defects or other reproductive harm in a quantity greater than or equal to 0.1%.

H370 - Causes damage to organs. (Specific target organ toxicity, single exposure, category 1)

Precautionary Codes:

P202 - This product should only by used by persons trained in the safe handling of hazardous chemicals.

P233 - Store in a tightly closed container. (P404)

SECTION 2 - HAZARDS IDENTIFICATION - *continued*

2.1 - GHS Label Elements - *continued*

P260 - Do not breathe vapor.

P262 - Do not get in eyes, on skin or clothing.

P264 - Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

P284 - Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.

P338 - Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

P340 - Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

P352 - Skin contact: Wash thoroughly with soap and water. Get medical attention if irritation develops or persists.

2.2 - Other Hazards

2.2.1 - Symptom of Exposure Health/Environment

Highly Flammable (Flammable liquids, category 2)

Causes damage to organs. (Specific target organ toxicity, single exposure, category 1)

After ingestion or inhalation, initial symptoms may be only that of mild intoxication, but may become severe after 12 or 18 hours.

Overexposure may cause dizziness, nausea, muscle weakness, narcosis and respiratory failure.

2.2.2 - Potential Health Effects

Causes severe eye irritation. (Eye damage/irritation, category 2A)

Irritating to skin. (Skin corrosion/irritation, category 2)

May be harmful if absorbed through the skin. (Acute toxicity, dermal, category 5)

Irritating to mucous membrane and upper respiratory system.

Harmful if inhaled. (Acute toxicity, inhalation, category 4)

May be harmful if swallowed. (Acute toxicity, oral, category 5)

2.2.3 - Routes of Entry

Inhalation, ingestion or skin contact.

2.2.4 - Carcinogenicity

California Proposition 65 Warning: This product contains a component (or components) that may cause birth defects or other reproductive harm in a quantity greater than or equal to 0.1%.

SECTION 3 - COMPOSITION / ANALYTES DATA

Description: Picric Acid in Acetonitrile/Methanol Blend

			ACGIH -TLV (mg/m³)			OSHA -PEL (mg/m³)		
Analyte	CAS #	% Concentration	TWA	STEL	Skin	TWA	STEL	Skin
Picric acid	88-89-1	0.010	0.1			0.1		
Acetonitrile	75-05-8	49.995				70		
Methanol	67-56-1	49.995				260		

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Materials to Avoid: Acids
Bases
Oxidizers

Hazardous Decomposition: Hydrogen cyanide (HCN); Carbon oxides; Nitrogen oxides Forms HCN when heated to about 120 °C

Hazardous Polymerization: Will not occur

Condition to Avoid: Heat; Contact with ignition sources

SECTION 11 - TOXICOLOGICAL INFORMATION

Human Health Toxicity

See section 2 for specific toxicological information for the ingredients of this product.

LD50 (Oral): N/A

LD50 (Dermal) : N/A

LC50 (Inhalation): N/A

No specific human health toxicity information is available for this product. Information provided is based on similar products.

WARNING: This product contains chemicals known to the state of California to cause birth defects or other reproductive harm.

No other information related to the toxicological properties of this product is available at this time.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental Toxicity

By complying with sections 6 and 7 there should be no release to the environment.

LC50 (Fish): N/A

EC50 (Aquatic Invertebrate): N/A

BCF: N/A

No specific environmental toxicity information is available for this product. It is not expected to be an environmental concern.

No other information related to the ecological properties of this product is available at this time.

SECTION 13 - DISPOSAL CONSIDERATIONS

Recycle or incinerate at any EPA approved facility or dispose in compliance with Federal, State and local regulations. Empty containers must be triple-rinsed prior to disposal.

SECTION 14 - TRANSPORT INFORMATION

Transportation Information (DOT/IATA)

UN Number: UN1993

Class: 3

Packing Group: II

Proper Shipping Name: Flammable liquid, n.o.s. (Acetonitrile, Methanol)

Poison by Inhalation: No

Marine Pollutant: No

SECTION 15 - REGULATORY INFORMATION

WARNING: This product contains chemicals known to the state of California to cause birth defects or other reproductive harm.

All components are listed on the TSCA Inventory.

For laboratory, research and development use only. Not for manufacturing or commercial purposes.

In addition to federal and state regulations, local regulations may apply. Check with your local regulatory authorities.

SECTION 16 - OTHER INFORMATION

This document has been designed to meet the requirements of OSHA, ANSI, GHS and CHIPs regulations. Chemicals are classified using the Globally Harmonized System for Classification and Labeling of Chemicals and CLP Regulation (EC) No. 1272/2008.

The statements contained herein are offered for informational purposes only and are based on technical data that we believe to be accurate. The manufacturer will not assume any liability for the accuracy and completeness of this information. Final determination of the suitability of the material is the responsibility of the user. Although certain hazards are described herein, the user should not presume that these are the only hazards that exist. Since conditions and manner of use are outside of the manufacturers control, we make

NO WARRANTY OF MERCHANTABILITY, EXPRESSED OR IMPLIED, AND ASSUME NO LIABILITY RESULTING FROM ITS USE.

Legend : N/A = Not Available ND = Not Determined NR = Not Regulated

Alteration of any information contained herein without written permission from the manufacturer is strictly prohibited.

HMIS/NFPA HAZARD INDEX

0 - Minimal
1 - Slight
2 - Moderate
3 - Serious
4 - Severe

* - Additional Hazard

GHS HAZARD INDEX

Category 1 - Most Severe
Category 5 - Least Severe

**** End of Document ****

Reagent

8330Surrogate_00110

eurofins | Environment Testing TestAmerica

8330Surrogate_00110

good ✓

Reagent ID: 8330Surrogate_00110

Description:	10ug/mL 1,2-Dinitrobenzene	Expiration Date:	05/17/2020
No. of Bottles:	1	Laboratory:	Eurofins TestAmerica, Denver
Storage Location:	Explosives Prep	Prepared By:	Bourgery, David F
Reagent Volume:	250.000 mL	Solvent:	Acetonitrile
Creation Date:	12/17/2019	Solvent Lot:	ACN_00223
Open Date:			
Container(s):	6017392		
Comment:	Stored Frozen. 6 month expiration date. Take 1mL of 1,2 Dinitrobenzene (8330SurrStock) and Dilute to 100 mL in ACN. Mulitply recipe as needed.		

WL 88127 → C18

POS #6

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
1,2-Dinitrobenzene	8330SurrStkSS_00145	03/31/2023	1000.00000	ug/mL	10.00000	ug/mL
1,2-Dinitrobenzene (Surr)	8330SurrStkSS_00145	03/31/2023	1000.00000	ug/mL	10.00000	ug/mL
1,2-Dinitrobenzene	8330SurrStkSS_00158	07/31/2024	1000.00000	ug/mL	10.00000	ug/mL
1,2-Dinitrobenzene (Surr)	8330SurrStkSS_00158	07/31/2024	1000.00000	ug/mL	10.00000	ug/mL
1,2-Dinitrobenzene	8330SurrStkSS_00160	07/31/2024	1000.00000	ug/mL	10.00000	ug/mL
1,2-Dinitrobenzene (Surr)	8330SurrStkSS_00160	07/31/2024	1000.00000	ug/mL	10.00000	ug/mL
1,2-Dinitrobenzene	8330SurrStkSS_00161	07/31/2024	1000.00000	ug/mL	10.00000	ug/mL
1,2-Dinitrobenzene (Surr)	8330SurrStkSS_00161	07/31/2024	1000.00000	ug/mL	10.00000	ug/mL

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
8330SurrStkSS_00145	31453, 1000ug/mL Restek 1,2-DNB SS	ASTD	03/31/23	Restek	A0135839	31453	0.25000	mL
8330SurrStkSS_00158	31453, 1000ug/mL Restek 1,2-DNB SS	ASTD	07/31/24	Restek	A0146866	31453	0.25000	mL
8330SurrStkSS_00160	31453, 1000ug/mL Restek 1,2-DNB SS	ASTD	07/31/24	Restek	A0150790	31453	1.00000	mL
8330SurrStkSS_00161	31453, 1000ug/mL Restek 1,2-DNB SS	ASTD	07/31/24	Restek	A0150790	31453	1.00000	mL

Preliminary Report

Eurofins TestAmerica, Denver

LCS, Lab Control Sample Report

Sample Path: \\chromna\Denver\ChromData\CHHPLC_X\20191220-88127.b\12200006.D

Lims ID: C18column:B16162 Inj. Date: 20-Dec-2019 11:19:02

Worklist ID: 280-0088127-006 Instrument: CHHPLC_X3

Method: 8330_X3

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 3535	Limits 2 3535	Limits 3 3535
$ 9 1,2-Dinitrobenzene	0.4000	0.3843	96.1	83-119	63-127	

Samples for Limit Group: 1, Lims Prep Method: 3535

280-132090-A-2-A	280-132090-A-3-A	280-132090-A-4-A
280-132090-A-5-A	280-132090-A-6-A	280-132090-A-7-A
280-132090-A-8-A	280-132031-A-1-A	280-132031-A-2-A
280-132031-A-3-A	280-132031-A-4-A	280-131963-A-1-B
280-131963-B-2-A	280-131963-A-3-A	280-131963-B-4-A
280-131977-A-1-A	280-131977-B-2-A	280-131977-B-3-A
280-131977-A-4-A	280-131977-A-5-A	280-131977-A-6-A

Samples for Limit Group: 2, Lims Prep Method: 3535

280-131996-A-4-A	280-131996-A-5-A	280-131996-A-6-A
280-131996-A-7-A	280-131996-A-8-A	280-131996-A-9-A
280-131996-A-11-A	280-131996-A-12-A	280-131996-A-13-A
280-131996-A-14-A	280-131996-A-15-A	280-131996-A-1-A
280-131996-A-2-A	280-131996-A-3-A	280-131996-A-10-A

Samples for Limit Group: 3, Lims Prep Method: 3535

280-132013-A-1-A	600-197143-C-1-A	280-131992-C-1-A
280-131988-A-1-A	280-131988-A-2-A	280-131988-A-3-A
280-131988-B-4-A		

Reagent

8330Surrogate_00114

Preliminary Report

Eurofins TestAmerica, Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\G2_LUNA\20200507-91339.b\05070004.D

Lims ID: CaCl2_Sol_00054 Inj. Date: 07-May-2020 12:25:53

Worklist ID: 280-0091339-004 Instrument: CHHPLC_G2_LUNA

Method: G2_8330_Luna

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 0B_Sonc_
$ 10 1,2-Dinitrobenzene	0.2000	0.1868	93.4	83-122

Samples for Limit Group: 1, Lims Prep Method: 8330B_Sonc_10g

280-135356-A-2-D

Reagent

8330Surrogate_00116

Preliminary Report

Eurofins TestAmerica, Denver

Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200515-91560.b\05150003.D				
Lims ID:	MeOH=0000129165				
Client ID:					
Sample Type:	Client				
Inject. Date:	15-May-2020 15:31:37	ALS Bottle#:	6	Worklist Smp#:	3
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	MeOH=0000129165				
Misc. Info.:	280-0091560-003				
Operator ID:	CB	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200515-91560.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	15-May-2020 16:18:31	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX0318				

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.5000	0.4870	97.40

Reagent

8330SurrStkSS_00145

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 31453 **Lot No.:** A0135839

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

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

Expiration Date : March 31, 2023 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,2-Dinitrobenzene	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
	CAS # 528-29-0 (Lot MKBW2921V)		+/- 56.0822	µg/mL	Unstressed
	Purity 99%		+/- 57.3938	µg/mL	Stressed

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

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

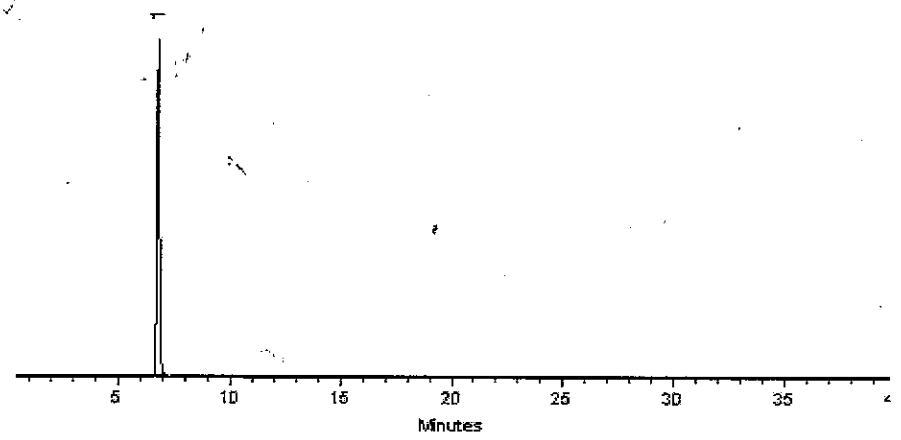
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

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.

Dustin J Lidgett
Dustin Lidgett - Mix Technician

Date Mixed: 05-Mar-2018 **Balance:** 1128360905

Jennifer J Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 09-Mar-2018

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:

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

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:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

Reagent

8330SurrStkSS_00157

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 31453 **Lot No.:** A0146866

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

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

Expiration Date : March 31, 2024 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,2-Dinitrobenzene	1,003.0 µg/mL	+/- 5.9575	µg/mL	Gravimetric
	CAS # 528-29-0 (Lot MKCH6067)		+/- 56.2504	µg/mL	Unstressed
	Purity 99%		+/- 57.5660	µg/mL	Stressed

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

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

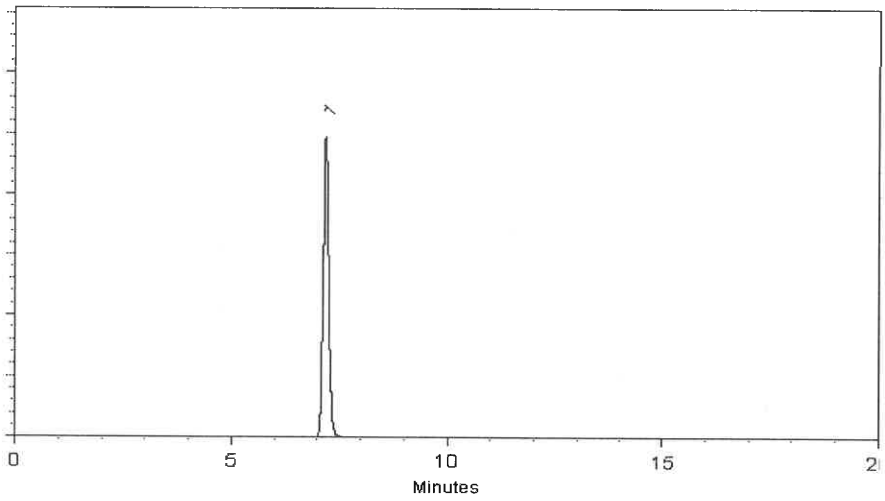
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

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.

Michael J Maye

Date Mixed: 11-Mar-2019 **Balance:** 1128353505

Fang-Yun Lo - GC Analyst

Date Passed: 14-Mar-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

8330SurrStkSS_00158

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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. : 31453 **Lot No.:** A0150790

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

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

Expiration Date : July 31, 2024 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,2-Dinitrobenzene	1,003.0 µg/mL	+/- 5.9575	µg/mL	Gravimetric
	CAS # 528-29-0 (Lot MKCH6067)		+/- 56.2504	µg/mL	Unstressed
	Purity 99%		+/- 57.5660	µg/mL	Stressed

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

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

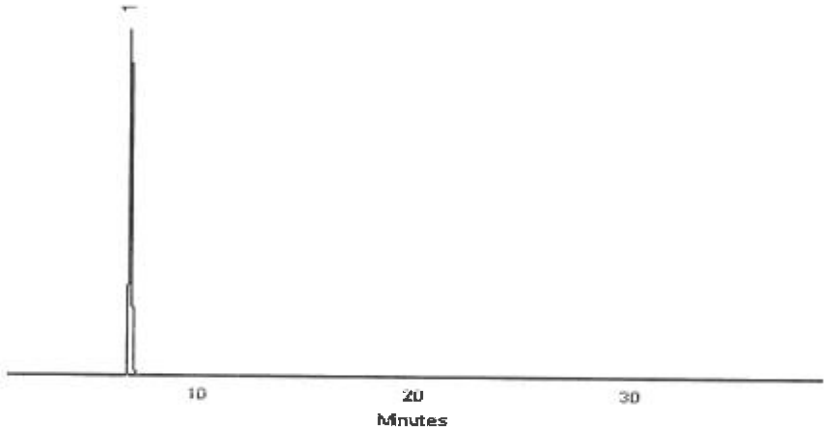
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

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.

Walker Workman - Operations Technician I

Date Mixed: 12-Jul-2019 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 16-Jul-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

8330SurrStkSS_00160

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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. : 31453 **Lot No.:** A0150790

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

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

Expiration Date : July 31, 2024 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,2-Dinitrobenzene	1,003.0 µg/mL	+/- 5.9575	µg/mL	Gravimetric
	CAS # 528-29-0 (Lot MKCH6067)		+/- 56.2504	µg/mL	Unstressed
	Purity 99%		+/- 57.5660	µg/mL	Stressed

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

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

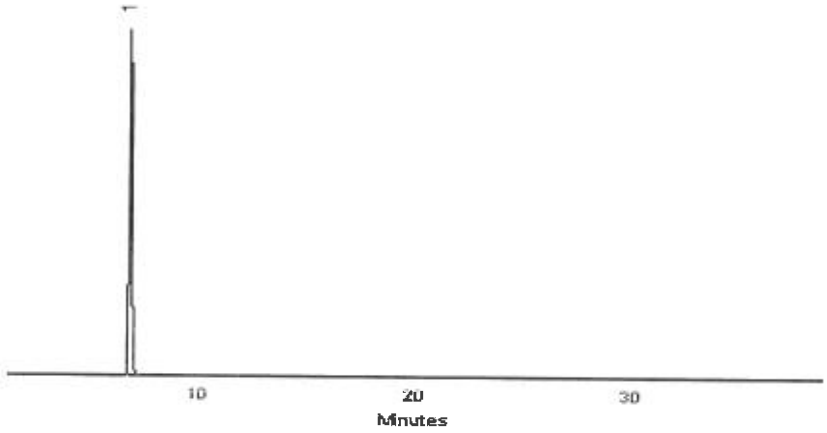
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

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.

Walker Workman - Operations Technician I

Date Mixed: 12-Jul-2019 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 16-Jul-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

8330SurrStkSS_00161

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Certificate #3222.02

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. : 31453 **Lot No.:** A0150790

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

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

Expiration Date : July 31, 2024 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,2-Dinitrobenzene	1,003.0 µg/mL	+/- 5.9575	µg/mL	Gravimetric
	CAS # 528-29-0 (Lot MKCH6067)		+/- 56.2504	µg/mL	Unstressed
	Purity 99%		+/- 57.5660	µg/mL	Stressed

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

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

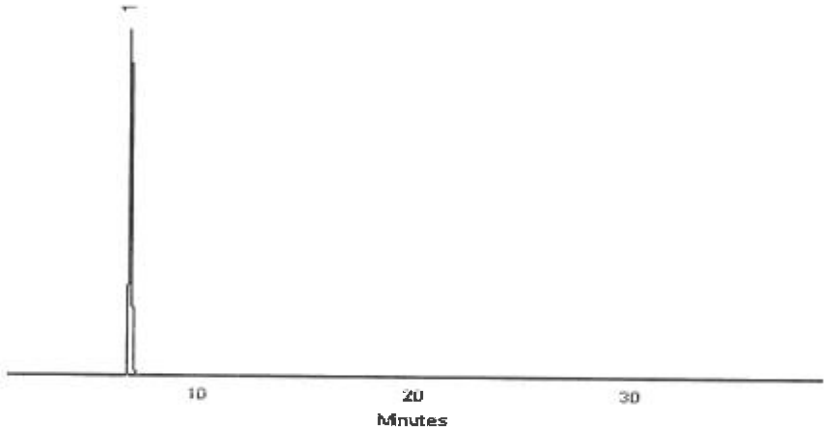
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

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.

Walker Workman - Operations Technician I

Date Mixed: 12-Jul-2019 **Balance:** 1128360905

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 16-Jul-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

8330SurrStkSS_00168

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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. : 31453 **Lot No.:** A0155113

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

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

Expiration Date : November 30, 2024 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,2-Dinitrobenzene		1,004.0 µg/mL	+/- 5.9635	µg/mL	Gravimetric
	CAS # 528-29-0	(Lot MKCH6067)		+/- 56.3065	µg/mL	Unstressed
	Purity 99%			+/- 57.6234	µg/mL	Stressed

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

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

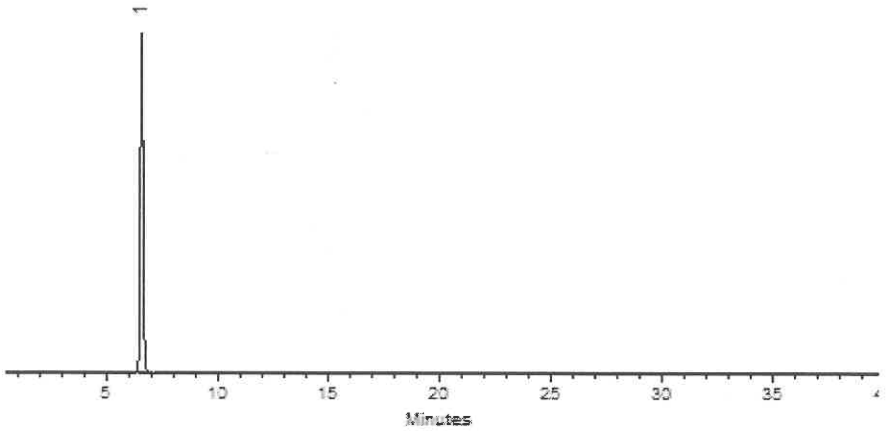
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

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.

Miranda Kline
Miranda Kline - Operations Technician I

Date Mixed: 15-Nov-2019 **Balance:** 1128342314

Jennifer J Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 20-Nov-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

8330SurrStkSS_00169

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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. : 31453 **Lot No.:** A0155113

Description : 8330 Surrogate Mix

8330 Surrogate Mix 1000 µg/mL, Methanol, 1mL/ampul

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

Expiration Date : November 30, 2024 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,2-Dinitrobenzene		1,004.0 µg/mL	+/- 5.9635	µg/mL	Gravimetric
	CAS # 528-29-0	(Lot MKCH6067)		+/- 56.3065	µg/mL	Unstressed
	Purity 99%			+/- 57.6234	µg/mL	Stressed

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

Column:
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Ultra C18 (cat.# 9174575)

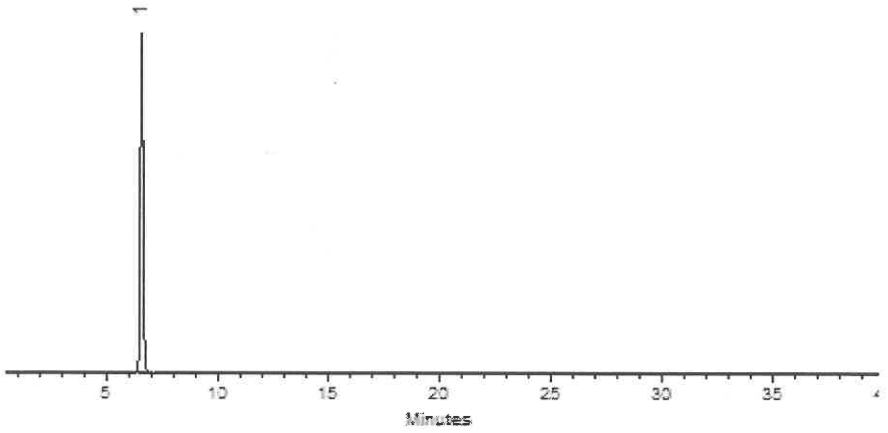
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

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.

Miranda Kline
Miranda Kline - Operations Technician I

Date Mixed: 15-Nov-2019 **Balance:** 1128342314

Jennifer J Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 20-Nov-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

8330SurrStock_00164

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: M-8330-SS
Description: 1,2-Dinitrobenzene
Lot: 216071012
Solvent: Methanol
Hazards: **HIGHLY FLAMMABLE** - *Refer to SDS for safety info*



Danger 2

Date Certified: Jul 1, 2016
Expiration: Jul 1, 2026
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Included on ISO/IEC 17025 Scope of Accreditation: Yes

Included on ISO Guide 34 Scope of Accreditation: Yes

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
1,2-Dinitrobenzene	528-29-0	100.0	100.1	1001

Sample

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] All weights are traceable through NIST, Test No. 822-275872-11

[2] Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

See reverse side for additional information

Certified By: _____
Larry Decker, Organic QC Manager

Page 1 of 1

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 5/18

Reagent

Alk stk std_00017

ThermoFisher SCIENTIFIC

Certificate of Analysis

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Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	SS148	Quality Test / Release Date	03/20/2019
Lot Number	191517	Expiration Date	Mar/2021
Description	SODIUM CARBONATE SOLUTION, 1N		
Country of Origin	United States		
Chemical Origin			
BSE/TSE Comment			
Chemical Comment			

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, Colorless liquid
NORMALITY		Inclusive Between 0.995 - 1.000	0.999
COLOR	APHA	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST

Teresa Bailey-Wyche

Quality Assurance Specialist - Certificate of Analysis Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Reagent

IC BR ICV_00018

RICCA CHEMICAL COMPANY®

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Pocomoke City, MD 21851
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Bromide Standard, 1000 ppm Br^-

Lot Number: 2907E22 **Product Number:** 1180

Manufacture Date: JUL 23, 2019
Expiration Date: JAN 2021

The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is based upon the volumetric method of preparation.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Bromide	7647-15-6	High Purity

Test	Specification	Result
Appearance	Colorless liquid	Passed
Bromide (Br)	995-1005 ppm	1000 ppm

Specification	Reference
Bromide Solution, Standard (1 mL = 1 mg Br-)	ASTM (D 3869 D)
Standard Bromide Solution, 1000 mg/L	APHA (4110 B)
Bromide Stock Solution (1.00 mL = 1.00 mg Br-)	EPA (SW-846) (9056)
Sodium Bromide Standard Solution, 1000 mg/L	ASTM (D 1246)
Bromide Stock Solution (1.00 mL = 1.00 mg Br?)	ASTM (D 4327)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container
1180-16	500 mL natural poly	18 months
1180-4	120 mL natural poly	18 months
1180-8	250 mL natural poly	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Sharon Travers (07/23/2019)
Quality Control Supervisor
This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Reagent

IC CL cal_00060

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Reference Materials Producer
Cert #2495.01

SPEXertificate®

Certificate of Reference Material

ACCREDITED
Chemical Testing
Cert #2495.02

Catalog Number: AS-CL9-2X **Lot No.** 4-176CL-2X

Description: 1000 µg/mL Chloride

Matrix: H_2O

This **Ion Chromatography** Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for ion chromatography instrumentation. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Value: 1001 µg/mL ±5 µg/mL

Certified Value is Traceable to: 3182*

* - indicates NIST SRM † - indicates SPEX CertiPrep CRM (when NIST SRM is not available) ‡ - prepared gravimetrically

The CRM is prepared gravimetrically using high purity Sodium Chloride, Lot# 09141H. The certified value listed is the average of values obtained by classical wet assay and ion chromatography analysis.

Refer to side 2 for details of measurement uncertainties.

Classical Wet Assay: 1004 µg/mL

Method: Precipitation using Silver Nitrate. Filter, dry and weigh as AgCl.

Instrumental Analysis by Ion Chromatography: 997 µg/mL

Uncertified Properties

Trace Ionic Impurities in the Actual Solution via IC Analysis:

Element	µg/mL	Element	µg/mL
Br^-	<0.01	NO_3^-	<0.06
F^-	<0.05	$PO4^{-3}$	<0.03
NO_2^-	<0.05	$SO4^{-2}$	<0.08

Balances are calibrated regularly with weight sets traceable to NIST #32856, #32867 and others. This CRM is guaranteed stable and accurate to +/- 0.5% of the certified value. This includes uncertainty components due to preparation, homogeneity by the most precise method, and short-term and long-term stability. This guarantee is valid for a period of one year from the date of certification only when the material is kept tightly capped and stored under ambient laboratory conditions.

Date of Certification: JAN - - 2020 Certifying Officer: Katherine Cullinan

Katherine Cullinan, QC Manager

Page 1 of 2
Rev. 0

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Report of Certification

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001 (certified by DQS), ISO 17025 (accredited by A2LA) and ISO 17034 (accredited by A2LA) quality system consistent with the following guides:

- ISO 9001: Quality management systems – Requirements
- ISO/IEC 17025: General requirements for the competence of testing and calibration laboratories
- ISO 17034: General requirements for the competence of reference material producers
- ISO Guide 30: Reference Materials – Selected terms and definitions
- ISO Guide 31: Reference Materials – Contents of certificates and labels
- ISO Guide 35: Reference Materials – General and principals for certification
- Guide to the Expression of Uncertainty in Measurement, 2008
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurement – Third Edition
- NIST Technical Note 1297

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO 9001, ISO 17025, and ISO 17034 guidelines. Vendor identifications are proprietary; however, sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For further assistance, please contact Sales Support at crmsales@spexcsp.com.

Instructions for Use:

Primary usage of this CRM is in neat form or diluted serially with matrix of a purity at or greater than the purity of the original matrix solution. If dilution is required, the diluent must be compatible with all certified analytes and contain stabilizers appropriate for the period of intended use. The CRM can also be used as a spike or with a spike, again with appropriate compatibility considerations. All solutions should be thoroughly mixed, by shaking, prior to use and never pipetted directly from the bottle. Do not return excess solution to the bottle. All surfaces that come in contact with the solution must be thoroughly cleaned and leached prior to use. Dilutions should be performed only with Class A volumetric glassware. See SDS for health and safety information.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, analytical instrumentation and personnel have been qualified prior to use. The highest purity acids applicable, 18 megohm, double deionized water, acid-leached triple-rinsed bottles (where appropriate), and Class A/calibrated volumetrics have been used in all preparations.

Homogeneity:

The homogeneity of the CRM has been confirmed by procedures consistent with ISO 17025, ISO 17034, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4600-HOMOGEN-1A. Since the product is highly homogeneous, any sample size taken for analysis would be within the uncertainty budget. This is consistent with the intended use of the CRM.

Statistical Estimator and Confidence Limits:

The certified value 'X' listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = ku_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c=combined standard uncertainty obtained by combining the individual element standard uncertainty components u_i, and $u_c = \sqrt{\Sigma u_i^2}$

Certification Report:

All certified values reported were derived from the Certification Report, SPEX CertiPrep's traceability documentation, identified by the lot number of this CRM. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further assistance, please contact Sales Support at crmsales@spexcsp.com.

Legal Notice:

SPEX CertiPrep reference materials are not for any cosmetic, drug or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep, LLC. of any kind whatsoever, whether based on breach of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep, LLC. be liable for any loss of profits or any incidental, special, or consequential damages.

Reagent

IC FL cal_00014

RICCA CHEMICAL COMPANY®

1490 Lammers Pike
Batesville, IN 47006
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Fluoride Standard, 1000 ppm F^-

Lot Number: 4905E80 **Product Number:** 3173

Manufacture Date: MAY 23, 2019
Expiration Date: NOV 2020

The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is based upon the volumetric method of preparation.
The concentration is confirmed by Fluoride ISE and is certified traceable to NIST SRM 2203.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Fluoride	7681-49-4	High Purity

Test	Specification	Result
Appearance	Colorless liquid	Passed
Fluoride (F)	995-1005 ppm	1000 ppm

Specification	Reference
Fluoride Solution, Stock (1.00 mL = 1.00 mg F)	ASTM (D 5542)
Fluoride Stock Solution (1.00 mL = 1.00 mg F-)	EPA (SW-846) (9056)
Fluoride Calibration Stock Solution (1,000 mg/L F-)	EPA (SW-846) (9214)
Stock Solution, 1.0 mL = 1.0 mg F	EPA (340.3)
Fluoride Solution, Stock (1.00 mL = 1.00 mg F)	ASTM (D 5996)
Fluoride Stock Solution (1.00 mL = 1.00 mg F?)	ASTM (D 4327)
Fluoride Stock Standard Solution (1 mg of F in 1 mL)	ACS (N/A)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
3173-16	500 mL natural poly	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Jim Gibbs (05/23/2019)
Quality Control Supervisor
This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Reagent

IC MS/MSD S04_00005

Fisher Scientific

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

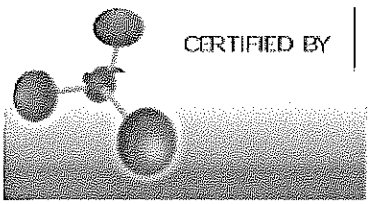
Certificate of Analysis

Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2008 standard by SAI Global Certificate Number CERT - 0064970

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Certain products (USP/FCC/NF/EP/BP/JP grades) are sold for use in food, drug, or medical device manufacturing. Fisher does not claim regulatory coverage under 21 CFR nor maintain DMF's with the FDA. The following are the actual analytical results obtained:

Catalog Number	**P304**	**Quality Test / Release Date**	**3/2/2015**
Lot Number	**147276**		
Description	**POTASSIUM SULFATE, CRYSTAL, CERTIFIED, A.C.S.**		
Country of Origin	**India**	*** Suggested Retest Date**	**Feb-2020**
Chemical Origin	**Inorganic-non animal**		
BSE/TSE Comment	This product is not manufactured from, or with, any type of animal product, nor any derivative of an animal product. As such, this product should not be considered a vector for BSE or TSE.		

Result name	Units	Specifications	Test Value
APPEARANCE		REPORT	FINE WHITE CRYSTALS
ASSAY	%	>= 99	99.4
CALCIUM	%	<= 0.01	<0.010
CHLORIDE	%	<= 0.001	<0.0010
HEAVY METALS (as Pb)	ppm	<= 5	<5.0
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	%	<= 0.01	<0.010
IRON (Fe)	ppm	<= 5	<5.0
MAGNESIUM	%	<= 0.005	<0.0050
NITROGEN COMPOUNDS	ppm	<= 5	<5
PH 5% SOLUTION @ 25 DEG C		Inclusive Between 5.5 - 8.5	5.5
SODIUM (Na)	%	<= 0.02	<0.020



Lab Manager Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as a extension of this catalog number listed above. If there are any questions with this certificate, please call Chemical Services at (800) 227-6701.
*Based on suggested storage condition.

Reagent

IC SO4 ICV_00021

ERA

A Waters Company

Certificate of Analysis

PRODUCT:	1000 mg/L Sulfate (SO_4)
CATALOG NUMBER:	062 -125 mL; 995 - 500 mL
LOT NUMBER:	100819m
ISSUE DATE:	August 23, 2019
REVISION DATE:	Original
STARTING MATERIAL:	Potassium Sulfate (K_2SO_4)
CERTIFIED CONCENTRATION[1]:	1000 mg/L
UNCERTAINTY[2]:	0.6%
MATRIX:	18 megohm deionized water
DENSITY:	0.9986 ± 0.0010 g/mL at 19.7°C and 757 mm Hg
TRACEABILITY[3]:	97.6%
NIST/SRM:	3181 Sulfate
VERIFICATION METHOD:	Ion Chromatography
STORAGE:	Store at 20-25°C

1. The **Certified Concentration** is the actual made-to concentration confirmed by ERA analytical verification.

2. The stated **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation of the product and includes uncertainty related to the starting material used and the volumetric and gravimetric measurements made. The method of calculating uncertainty is taken from the ISO Guide to the Expression of Uncertainty in Measurement (current version). The uncertainty applies to the product as supplied and does not take into account any required or optional dilutions and/or preparations the laboratory may perform while using this product.

3. Traceability ((% Recovery Certified Standard)/(% Recovery NIST SRM))* 100.

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs. Where a NIST SRM is not available, the product is metrologically traceable through an unbroken chain of calibrations to NIST weights, each having stated uncertainties and utilizing measurement standards that are appropriate for the physical and/or chemical property being measured.

This standard **expires 08/06/2021**. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

This product is intended to be used as either a calibration standard or a quality control check of the entire analytical process for the analytes/matrix included in the standard.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or email to info@eraqc.com

Certifying Officer: Brian Miller - Product Line Manager

ISO/IEC GUIDE 34:2009 ACCREDITED
REFERENCE MATERIAL PRODUCER
CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED
CHEMICAL TESTING LABORATORY
CERTIFICATE NO. 1539.02

16341 Table Mtn Pkwy, Golden, CO 80403 800-372-0122 fax: 303-421-0159 www.eraqc.com

Reagent

IC sulfatecal_00059

ACCREDITED
Reference Materials Producer
Cert #2495.01

SPEXertificate®

Certificate of Reference Material

ACCREDITED
Chemical Testing
Cert #2495.02

Catalog Number: AS-SO49-2X **Lot No.** 4-197SO4-2X

Description: 1000 µg/mL Sulfate

Matrix: H_2O

This **Ion Chromatography** Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for ion chromatography instrumentation. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Value: 1001 µg/mL ±5 µg/mL

Certified Value is Traceable to: 3181*

* - indicates NIST SRM † - indicates SPEX CertiPrep CRM (when NIST SRM is not available) ‡ - prepared gravimetrically

The CRM is prepared gravimetrically using high purity Potassium Sulfate, Lot# MAN1018SO4. The certified value listed is the average of values obtained by classical wet assay and ion chromatography analysis.

Refer to side 2 for details of measurement uncertainties.

Classical Wet Assay: 1002 µg/mL

Method: Precipitation using Barium Chloride. Filter, ignite, and weigh as BaSO4.

Instrumental Analysis by Ion Chromatography: 999 µg/mL

Uncertified Properties

Trace Ionic Impurities in the Actual Solution via IC Analysis:

Element	µg/mL	Element	µg/mL
Br^-	<0.006	NO_2^-	<0.004
Cl^-	<0.01	NO_3^-	<0.006
F^-	<0.008	$PO4^{-3}$	<0.01

Balances are calibrated regularly with weight sets traceable to NIST #32856, #32867 and others. This CRM is guaranteed stable and accurate to +/- 0.5% of the certified value. This includes uncertainty components due to preparation, homogeneity by the most precise method, and short-term and long-term stability. This guarantee is valid for a period of one year from the date of certification only when the material is kept tightly capped and stored under ambient laboratory conditions.

Date of Certification: JAN - - 2020 Certifying Officer: Katherine Cullinan

Katherine Cullinan, QC Manager

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Report of Certification

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001 (certified by DQS), ISO 17025 (accredited by A2LA) and ISO 17034 (accredited by A2LA) quality system consistent with the following guides:

- ISO 9001: Quality management systems – Requirements
- ISO/IEC 17025: General requirements for the competence of testing and calibration laboratories
- ISO 17034: General requirements for the competence of reference material producers
- ISO Guide 30: Reference Materials – Selected terms and definitions
- ISO Guide 31: Reference Materials – Contents of certificates and labels
- ISO Guide 35: Reference Materials – General and principals for certification
- Guide to the Expression of Uncertainty in Measurement, 2008
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurement – Third Edition
- NIST Technical Note 1297

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO 9001, ISO 17025, and ISO 17034 guidelines. Vendor identifications are proprietary; however, sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For further assistance, please contact Sales Support at crmsales@spexcsp.com.

Instructions for Use:

Primary usage of this CRM is in neat form or diluted serially with matrix of a purity at or greater than the purity of the original matrix solution. If dilution is required, the diluent must be compatible with all certified analytes and contain stabilizers appropriate for the period of intended use. The CRM can also be used as a spike or with a spike, again with appropriate compatibility considerations. All solutions should be thoroughly mixed, by shaking, prior to use and never pipetted directly from the bottle. Do not return excess solution to the bottle. All surfaces that come in contact with the solution must be thoroughly cleaned and leached prior to use. Dilutions should be performed only with Class A volumetric glassware. See SDS for health and safety information.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, analytical instrumentation and personnel have been qualified prior to use. The highest purity acids applicable, 18 megohm, double deionized water, acid-leached triple-rinsed bottles (where appropriate), and Class A/calibrated volumetrics have been used in all preparations.

Homogeneity:

The homogeneity of the CRM has been confirmed by procedures consistent with ISO 17025, ISO 17034, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4600-HOMOGEN-1A. Since the product is highly homogeneous, any sample size taken for analysis would be within the uncertainty budget. This is consistent with the intended use of the CRM.

Statistical Estimator and Confidence Limits:

The certified value 'X' listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = ku_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c=combined standard uncertainty obtained by combining the individual element standard uncertainty components u_i, and $u_c = \sqrt{\Sigma u_i^2}$

Certification Report:

All certified values reported were derived from the Certification Report, SPEX CertiPrep's traceability documentation, identified by the lot number of this CRM. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further assistance, please contact Sales Support at crmsales@spexcsp.com.

Legal Notice:

SPEX CertiPrep reference materials are not for any cosmetic, drug or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep, LLC. of any kind whatsoever, whether based on breach of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep, LLC. be liable for any loss of profits or any incidental, special, or consequential damages.

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www.spexcertiprep.com • E-mail: crmsales@spexcsp.com
Phone: 800-LAB-SPEX 732-603-9647

Reagent

IC sulfatecal_00060

Reference Materials Producer
Cert #2495.01

SPEXertificate®

Certificate of Reference Material

Chemical Testing
Cert #2495.02

Catalog Number: AS-SO49-2X **Lot No.** 4-197SO4-2X

Description: 1000 µg/mL Sulfate

Matrix: H_2O

This **Ion Chromatography** Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for ion chromatography instrumentation. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Value: 1001 µg/mL ±5 µg/mL

Certified Value is Traceable to: 3181*

* - indicates NIST SRM † - indicates SPEX CertiPrep CRM (when NIST SRM is not available) ‡ - prepared gravimetrically

The CRM is prepared gravimetrically using high purity Potassium Sulfate, Lot# MAN1018SO4. The certified value listed is the average of values obtained by classical wet assay and ion chromatography analysis.

Refer to side 2 for details of measurement uncertainties.

Classical Wet Assay: 1002 µg/mL

Method: Precipitation using Barium Chloride. Filter, ignite, and weigh as BaSO4.

Instrumental Analysis by Ion Chromatography: 999 µg/mL

Uncertified Properties

Trace Ionic Impurities in the Actual Solution via IC Analysis:

Element	µg/mL	Element	µg/mL
Br^-	<0.006	NO_2^-	<0.004
Cl^-	<0.01	NO_3^-	<0.006
F^-	<0.008	$PO4^{-3}$	<0.01

Balances are calibrated regularly with weight sets traceable to NIST #32856, #32867 and others. This CRM is guaranteed stable and accurate to +/- 0.5% of the certified value. This includes uncertainty components due to preparation, homogeneity by the most precise method, and short-term and long-term stability. This guarantee is valid for a period of one year from the date of certification only when the material is kept tightly capped and stored under ambient laboratory conditions.

Date of Certification: MAY - - 2020 Certifying Officer: Katherine Cullinan

Katherine Cullinan, QC Manager

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Reagent

MNX,TNX,DNX_00032

Agilent

Certificate of Analysis
ISO Guide 34

Custom Standard

Product Number: CUS-23984 **Page:** 1 of 1

Lot Number: CS-5628 **Lot Issue Date:** 16-Nov-2018 **Expiration Date:** 31-Dec-2019

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with Agilent Technologies ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)		RM12428	100.3 ± 0.5 µg/mL
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane		RM12428	100.1 ± 0.5 µg/mL
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane		RM12428	116.7 ± 0.6 µg/mL

Matrix: acetonitrile

Storage: Store at Room Temperature (15° to 30°C).

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER
ISO Guide 34 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Managment System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO17025 Cert No.
AT-1937

ORG ver 1.1

250 Smith Street North Kingstown, Rhode Island 02852 **www.ultrasci.com**

Reagent

MNX,TNX,DNX_00042

Agilent

Certificate of Analysis

Product Name: Custom Standard

Product Number: CUS-23984 **Lot Issue Date:** 24-Jan-2020

Lot Number: 0006516106 **Expiration Date:** 28-Feb-2021

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)	N/A	RM12426	100.3 ± 0.5 µg/mL
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX)	N/A	RM12428	100.4 ± 0.5 µg/mL
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX)	N/A	RM12428	117.1 ± 0.6 µg/mL

Matrix: acetonitrile

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/ CSD-QA-015.1

ANAB ACCREDITED TESTING LABORATORY

ISO 17025 Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 **www.agilent.com/quality**

Certificate of Analysis

Product Number: CUS-23984 **Lot Number:** 0006516106

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-015.1

ISO 17025 Cert
No. AT-1937

Reagent

MNX,TNX,DNX_00043

Agilent

Certificate of Analysis

Product Name: Custom Standard

Product Number: CUS-23984 **Lot Issue Date:** 24-Jan-2020

Lot Number: 0006516106 **Expiration Date:** 28-Feb-2021

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)	N/A	RM12426	100.3 ± 0.5 µg/mL
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX)	N/A	RM12428	100.4 ± 0.5 µg/mL
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX)	N/A	RM12428	117.1 ± 0.6 µg/mL

Matrix: acetonitrile

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/ CSD-QA-015.1

ANAB ACCREDITED TESTING LABORATORY

ISO 17025 Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 **www.agilent.com/quality**

Certificate of Analysis

Product Number: CUS-23984 **Lot Number:** 0006516106

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-015.1

ISO 17025 Cert
No. AT-1937

Reagent

MNX,TNX,DNX_00046

Agilent

Certificate of Analysis

Product Name: Custom Standard

Product Number: CUS-23984 **Lot Issue Date:** 24-Jan-2020

Lot Number: 0006516106 **Expiration Date:** 28-Feb-2021

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)	N/A	RM12426	100.3 ± 0.5 µg/mL
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane (DNX)	N/A	RM12428	100.4 ± 0.5 µg/mL
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane (MNX)	N/A	RM12428	117.1 ± 0.6 µg/mL

Matrix: acetonitrile

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/ CSD-QA-015.1

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Certificate of Analysis

Product Number: CUS-23984 **Lot Number:** 0006516106

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 2 of 2

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ISO 17025 Cert
No. AT-1937

Reagent

mv-30241_00008

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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. : 30241 **Lot No.:** A0131578

Description : 8260A Internal Standard Mix

8260A Internal Standard Mix 2,500 µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : October 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Fluorobenzene		2,522.1 µg/mL	+/- 14.6637	µg/mL	Gravimetric
	CAS # 462-06-6	(Lot BCBK8171V)		+/- 141.4116	µg/mL	Unstressed
	Purity 99%			+/- 144.7205	µg/mL	Stressed
2	Chlorobenzene-d5		2,518.6 µg/mL	+/- 14.6434	µg/mL	Gravimetric
	CAS # 3114-55-4	(Lot PR-23926)		+/- 141.2154	µg/mL	Unstressed
	Purity 99%			+/- 144.5197	µg/mL	Stressed
3	1,4-Dichlorobenzene-d4		2,520.5 µg/mL	+/- 14.6544	µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-18488)		+/- 141.3219	µg/mL	Unstressed
	Purity 99%			+/- 144.6287	µg/mL	Stressed

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

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

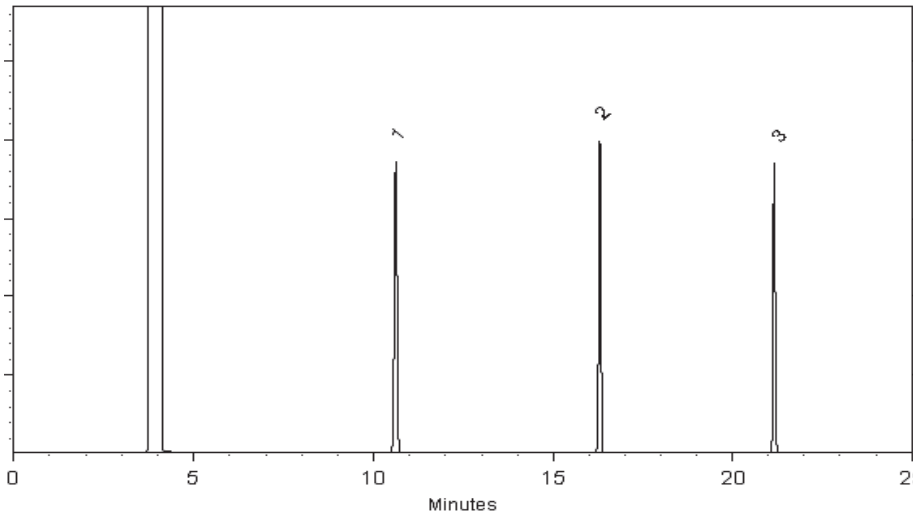
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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.

Tom Suckar - Mix Technician

Date Mixed: 11-Oct-2017 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 13-Oct-2017

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:

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

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 31861, 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.

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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. : 567650 **Lot No.:** A0132615

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500µg/mL, P&T Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2022 **Storage:** 0°C or colder

Rec'd 11/1/19

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane		2,500.2 µg/mL	+/- 14.5364 µg/mL		Gravimetric
	CAS # 1868-53-7	(Lot 0012017)		+/- 140.1837 µg/mL		Unstressed
	Purity 99.8%			+/- 143.4639 µg/mL		Stressed
2	1,2-Dichloroethane-d4		2,500.2 µg/mL	+/- 14.5361 µg/mL		Gravimetric
	CAS # 17060-07-0	(Lot PR-26748)		+/- 140.1809 µg/mL		Unstressed
	Purity 99%			+/- 143.4610 µg/mL		Stressed
3	Toluene-d8		2,500.2 µg/mL	+/- 14.5364 µg/mL		Gravimetric
	CAS # 2037-26-5	(Lot PR-26623)		+/- 140.1837 µg/mL		Unstressed
	Purity 99%			+/- 143.4639 µg/mL		Stressed
4	1-Bromo-4-fluorobenzene (BFB)		2,500.3 µg/mL	+/- 14.5370 µg/mL		Gravimetric
	CAS # 460-00-4	(Lot 20401KOV)		+/- 140.1893 µg/mL		Unstressed
	Purity 99%			+/- 143.4696 µg/mL		Stressed

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

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

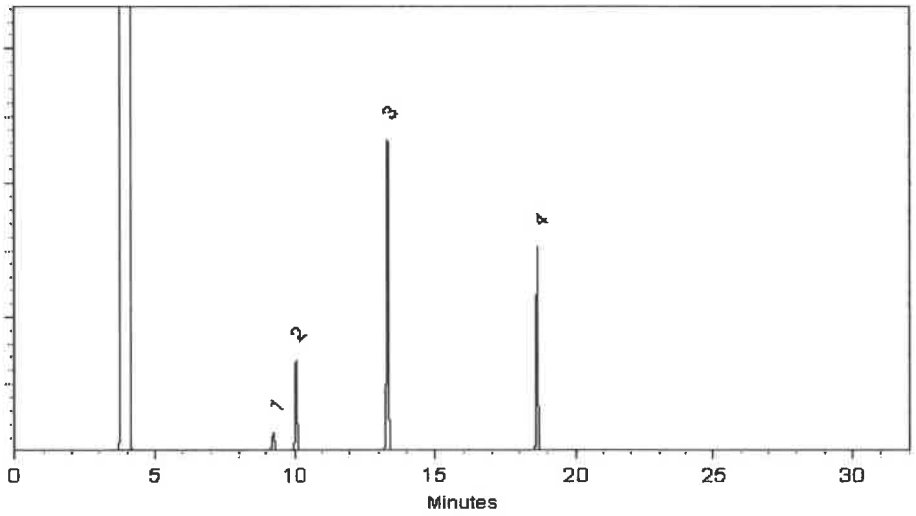
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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.

Michael J Maye

Date Mixed: 21-Nov-2017 **Balance:** 1127510105

Jennifer J Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 22-Nov-2017

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

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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. : 568720 **Lot No.:** A0154578

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul

Rec'd 4/28/20

GM

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

Expiration Date : April 30, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acrolein	19,810.7 µg/mL	+/- 115.9958 µg/mL	Gravimetric
	CAS # 107-02-8 (Lot D0012019410)		+/- 395.7642 µg/mL	Unstressed
	Purity 99%		+/- 887.8866 µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

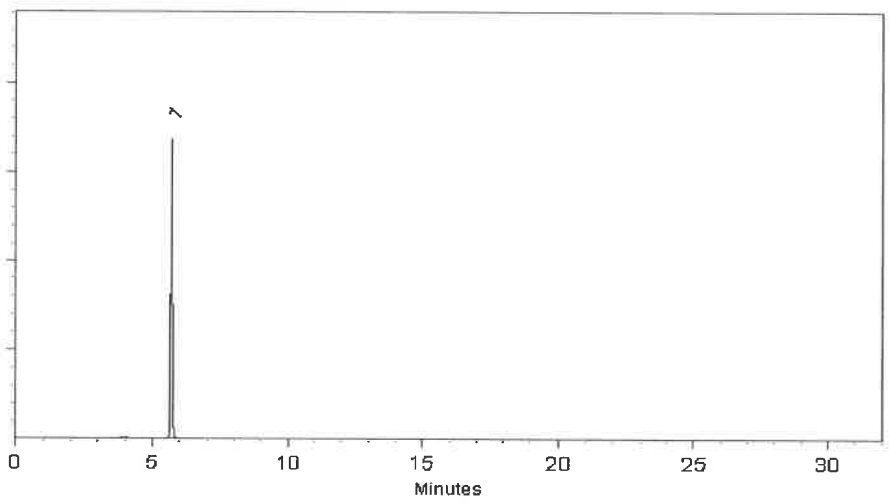
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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.

Tom Suckar - Mix Technician

Date Mixed: 31-Oct-2019 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 01-Nov-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

MV-569721.sec_00006

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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. : 569721.SEC **Lot No.:** A0140519

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

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

Expiration Date : August 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,509.0 µg/mL	+/- 73.2429 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot U13B039)		+/- 754.7732 µg/mL	Unstressed
	Purity 99%		+/- 756.5649 µg/mL	Stressed
2	2-Butanone (MEK)	12,558.0 µg/mL	+/- 73.5299 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 757.7297 µg/mL	Unstressed
	Purity 99%		+/- 759.5285 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,547.0 µg/mL	+/- 73.4654 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 757.0660 µg/mL	Unstressed
	Purity 99%		+/- 758.8632 µg/mL	Stressed
4	2-Hexanone	12,561.0 µg/mL	+/- 73.5474 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot V3NRA)		+/- 757.9108 µg/mL	Unstressed
	Purity 99%		+/- 759.7099 µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

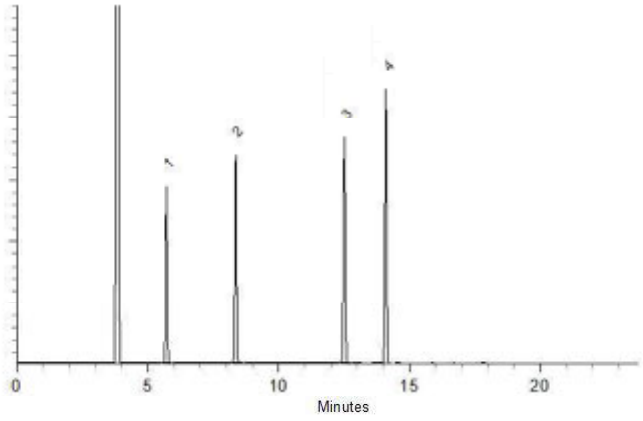
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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.

Matt Fragassi - Mix Technician

Date Mixed: 09-Aug-2018 **Balance:** 1128342314

Justine Albertson - Operations Tech ARM QC

Date Passed: 13-Aug-2018

Manufactured under Restek's ISO 9001:2015 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 17034 and Guide 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:

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

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:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

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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. : 569721 **Lot No.:** A0143988

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

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

Expiration Date : December 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone		12,500.5 µg/mL	+/- 72.6790 µg/mL	Gravimetric
	CAS # 67-64-1	(Lot SHBJ7699)		+/- 754.2106 µg/mL	Unstressed
	Purity 99%			+/- 756.0012 µg/mL	Stressed
2	2-Butanone (MEK)		12,501.0 µg/mL	+/- 72.6819 µg/mL	Gravimetric
	CAS # 78-93-3	(Lot SHBF2461V)		+/- 754.2407 µg/mL	Unstressed
	Purity 99%			+/- 756.0314 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)		12,501.5 µg/mL	+/- 72.6848 µg/mL	Gravimetric
	CAS # 108-10-1	(Lot SHBH8930)		+/- 754.2709 µg/mL	Unstressed
	Purity 99%			+/- 756.0617 µg/mL	Stressed
4	2-Hexanone		12,501.8 µg/mL	+/- 72.6863 µg/mL	Gravimetric
	CAS # 591-78-6	(Lot MKCD9048)		+/- 754.2860 µg/mL	Unstressed
	Purity 99%			+/- 756.0768 µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

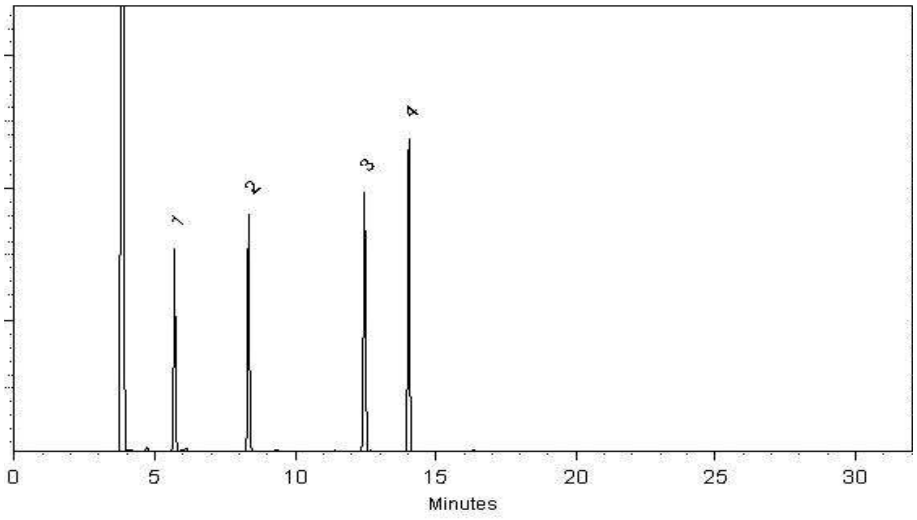
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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.

F. Joseph Fallon - Mix Technician

Date Mixed: 11-Dec-2018 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 14-Dec-2018

Manufactured under Restek's ISO 9001:2015 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 17034 and Guide 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:

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

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:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

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Testing Laboratory
Certificate #3222.02

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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. : 569722.SEC **Lot No.:** A0142594

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : October 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,499.3 µg/mL	+/- 25.7724 µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 24847)		+/- 141.7384 µg/mL	Unstressed
	Purity 99%		+/- 144.9810 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,506.0 µg/mL	+/- 21.8612 µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 141.4482 µg/mL	Unstressed
	Purity 99%		+/- 144.7145 µg/mL	Stressed
3	Vinyl chloride	2,505.4 µg/mL	+/- 25.4396 µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 142.0168 µg/mL	Unstressed
	Purity 99%		+/- 145.2689 µg/mL	Stressed
4	1,3-Butadiene	2,500.1 µg/mL	+/- 22.0034 µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 22331)		+/- 141.1491 µg/mL	Unstressed
	Purity 99%		+/- 144.4071 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,511.9 µg/mL	+/- 23.0453 µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot Q119-46)		+/- 141.9646 µg/mL	Unstressed
	Purity 99%		+/- 145.2346 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,498.5 µg/mL	+/- 23.5866 µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/- 141.3133 µg/mL	Unstressed
	Purity 99%		+/- 144.5633 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,450.0 µg/mL	+/- 14.3780 µg/mL	Gravimetric
	CAS # 75-43-4 * (Lot 7766400)		+/- 137.3830 µg/mL	Unstressed
	Purity 97%		+/- 140.5969 µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,502.5	µg/mL	+/-	22.2947	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)			+/-	141.3276	µg/mL	Unstressed
	Purity 99%				+/-	144.5877	µg/mL	Stressed

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

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

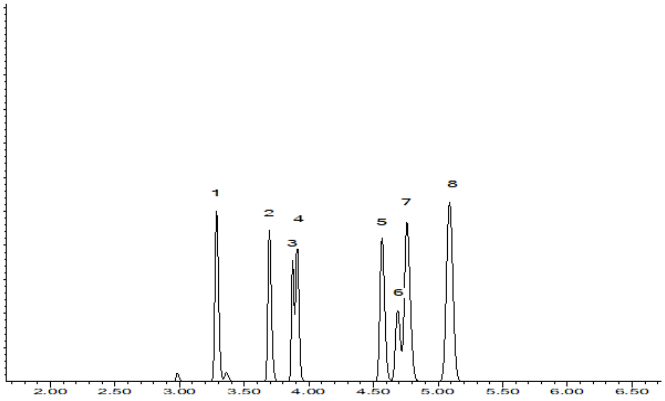
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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.

Brandon Reish - Mix Technician

Date Mixed: 24-Oct-2018 **Balance:** 1127510105

Justine Albertson - Operations Tech ARM QC

Date Passed: 05-Nov-2018

Manufactured under Restek's ISO 9001:2015 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 17034 and Guide 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:

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

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:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MV-569722_00010

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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. : 569722 **Lot No.:** A0143158

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : November 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,500.9 µg/mL	+/- 17.2023 µg/mL		Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/- 140.5234 µg/mL		Unstressed
	Purity 99%		+/- 143.7976 µg/mL		Stressed
2	Chloromethane (methyl chloride)	2,500.4 µg/mL	+/- 17.0791 µg/mL		Gravimetric
	CAS # 74-87-3 (Lot SHBJ6334)		+/- 140.4796 µg/mL		Unstressed
	Purity 99%		+/- 143.7534 µg/mL		Stressed
3	Vinyl chloride	2,500.4 µg/mL	+/- 16.5693 µg/mL		Gravimetric
	CAS # 75-01-4 (Lot 00012557)		+/- 140.4224 µg/mL		Unstressed
	Purity 99%		+/- 143.6977 µg/mL		Stressed
4	1,3-Butadiene	2,500.1 µg/mL	+/- 17.0785 µg/mL		Gravimetric
	CAS # 106-99-0 (Lot SHBK2299)		+/- 140.4623 µg/mL		Unstressed
	Purity 99%		+/- 143.7357 µg/mL		Stressed
5	Bromomethane (methyl bromide)	2,500.9 µg/mL	+/- 16.5511 µg/mL		Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 140.4457 µg/mL		Unstressed
	Purity 99%		+/- 143.7217 µg/mL		Stressed
6	Chloroethane (ethyl chloride)	2,502.0 µg/mL	+/- 16.0409 µg/mL		Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/- 140.4480 µg/mL		Unstressed
	Purity 99%		+/- 143.7268 µg/mL		Stressed
7	Dichlorofluoromethane (CFC-21)	2,500.0 µg/mL	+/- 14.5352 µg/mL		Gravimetric
	CAS # 75-43-4 (Lot 7766400)		+/- 140.1725 µg/mL		Unstressed
	Purity 99%		+/- 143.4524 µg/mL		Stressed

8	Trichlorofluoromethane (CFC-11)		2,500.8	µg/mL	+/-	17.8012	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot SHBH4155V)			+/-	140.5946	µg/mL	Unstressed
	Purity 99%				+/-	143.8670	µg/mL	Stressed

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

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

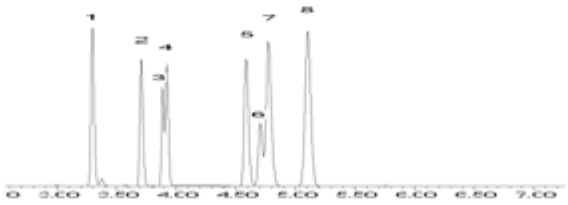
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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.

Joseph Jaglowski - Mix Technician

Date Mixed: 12-Nov-2018 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 11-Dec-2018

Manufactured under Restek's ISO 9001:2015 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 17034 and Guide 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:

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

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:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MV-569723_00005

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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. : 569723 **Lot No.:** A0142584

Description : 8260 List 1 / Std #4 2-CEVE (2015)

8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : October 31, 2021 **Storage:** 0°C or colder

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Chloroethyl vinyl ether	2,506.0 µg/mL	+/- 14.7066 µg/mL	Gravimetric
	CAS # 110-75-8 (Lot MKBK2735V)		+/- 53.6910 µg/mL	Unstressed
	Purity 99%		+/- 55.2497 µg/mL	Stressed

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

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

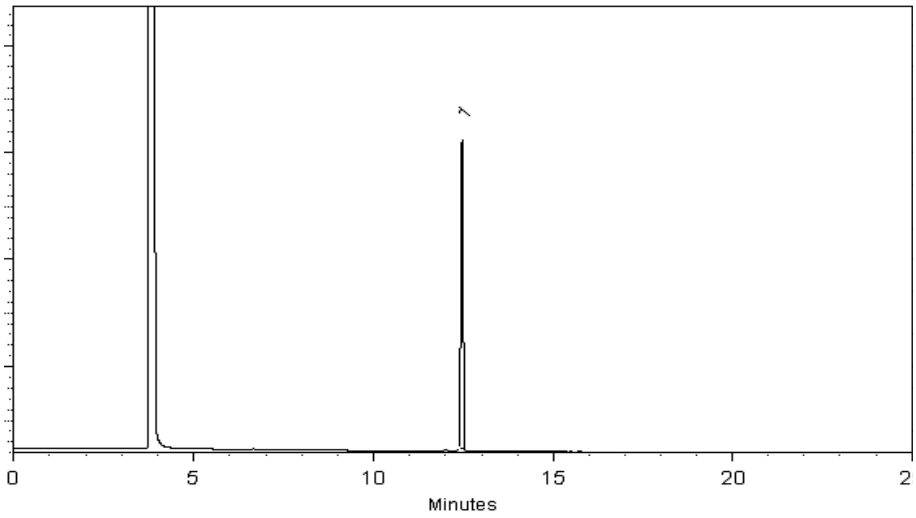
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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.

Tom Suckar - Mix Technician

Date Mixed: 24-Oct-2018 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 26-Oct-2018

Manufactured under Restek's ISO 9001:2015 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 17034 and Guide 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:

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

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:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

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Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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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. : 569724 **Lot No.:** A0156559

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul

Rec'd 4/24/20 GM

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

Expiration Date : July 31, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Vinyl acetate		5,040.0 µg/mL	+/-	29.5103	µg/mL	Gravimetric
	CAS # 108-05-4	(Lot 192709KJ)		+/-	304.1056	µg/mL	Unstressed
	Purity 99%			+/-	304.8275	µg/mL	Stressed

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

Specific Reference Material Notes:
08 April 2020
Expiration date extended from July 31, 2020 to July 31, 2021.

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

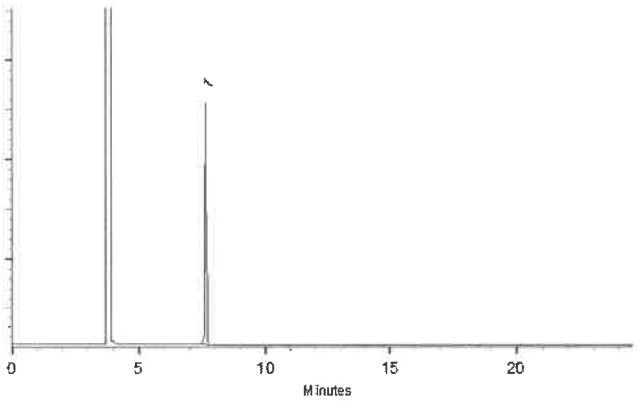
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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.

Tom Suckar - Mix Technician

Date Mixed: 10-Jan-2020 **Balance:** B442140311

Justine Albertson - Operations Tech-ARM QC

Date Passed: 13-Jan-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

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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. : 569727 **Lot No.:** A0146650

Description : 8260 List 2/ Std #3 Cyclohexanone (2015)

8260 List 2/ Std #3 Cyclohexanone (2015) 25,000µg/mL, Water, 1mL/ampul

Rec'd 4/28/20

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

Expiration Date : March 31, 2022 **Storage:** 10°C or colder

GM

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Cyclohexanone	25,006.0 µg/mL	+/- 146.4156 µg/mL	Gravimetric
	CAS # 108-94-1 (Lot MKCD4357)		+/- 1,508.8223 µg/mL	Unstressed
	Purity 99%		+/- 1,512.4040 µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

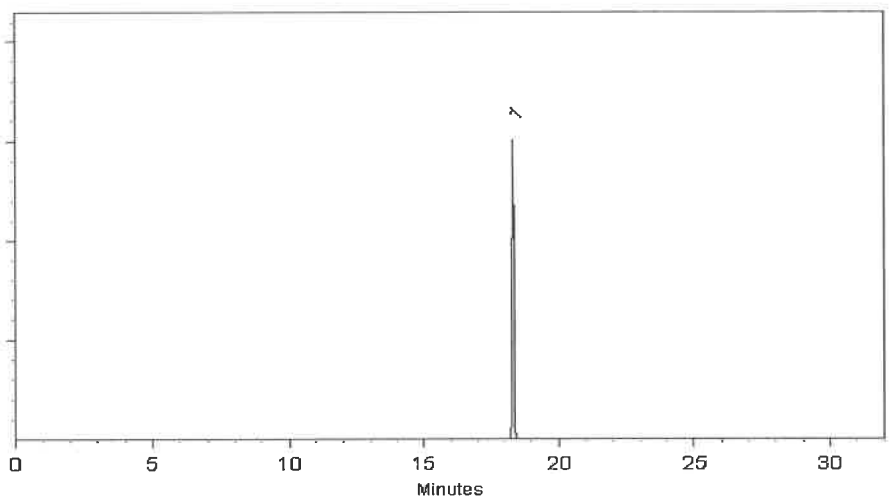
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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.

Jessica McClenahan - Operations Technician I

Date Mixed: 05-Mar-2019 **Balance:** B251644995

Fang-Yun Lo - QC Analyst

Date Passed: 07-Mar-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

MV-571992.sec_00005

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 571992.SEC **Lot No.:** A0144202

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Rec'd 4/24/20

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

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

GM

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7.SEC (Lot F23X068) **Purity** 98%	2,517.0 µg/mL	+/- 14.6339 µg/mL +/- 151.8598 µg/mL +/- 152.2203 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1.SEC (Lot 18342) **Purity** 99%	2,506.7 µg/mL	+/- 14.5740 µg/mL +/- 151.2383 µg/mL +/- 151.5974 µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene **CAS #** 75-35-4.SEC (Lot 7692300) **Purity** 99%	2,503.3 µg/mL	+/- 14.5546 µg/mL +/- 151.0372 µg/mL +/- 151.3958 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0.SEC (Lot XYXDO) **Purity** 98%	25,000.8 µg/mL	+/- 145.3491 µg/mL +/- 1,508.4071 µg/mL +/- 1,511.9883 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9.SEC (Lot UCNEL) **Purity** 99%	5,002.3 µg/mL	+/- 29.0840 µg/mL +/- 301.8129 µg/mL +/- 302.5295 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4.SEC (Lot Y25A027) **Purity** 99%	2,503.5 µg/mL	+/- 14.5556 µg/mL +/- 151.0472 µg/mL +/- 151.4059 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1.SEC (Lot H3HGC) **Purity** 99%	2,511.7 µg/mL	+/- 14.6030 µg/mL +/- 151.5400 µg/mL +/- 151.8998 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane)		2,506.7	µg/mL	+/-	14.5740	µg/mL	Gravimetric
	CAS # 75-09-2.SEC	(Lot FGM02)			+/-	151.2383	µg/mL	Unstressed
	Purity 99%				+/-	151.5974	µg/mL	Stressed
9	Carbon disulfide		2,500.7	µg/mL	+/-	14.5391	µg/mL	Gravimetric
	CAS # 75-15-0.SEC	(Lot MKBL1376V)			+/-	150.8763	µg/mL	Unstressed
	Purity 99%				+/-	151.2345	µg/mL	Stressed
10	Acrylonitrile		25,001.2	µg/mL	+/-	145.3513	µg/mL	Gravimetric
	CAS # 107-13-1.SEC	(Lot UERIL)			+/-	1,508.4304	µg/mL	Unstressed
	Purity 99%				+/-	1,512.0117	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC	(Lot ZHKYA)			+/-	150.9266	µg/mL	Unstressed
	Purity 99%				+/-	151.2849	µg/mL	Stressed
12	cis-1,2-Dichloroethene		2,501.3	µg/mL	+/-	14.5427	µg/mL	Gravimetric
	CAS # 156-59-2.SEC	(Lot HGC01-BLKT)			+/-	150.9137	µg/mL	Unstressed
	Purity 98%				+/-	151.2720	µg/mL	Stressed
13	n-Hexane (C6)		2,503.2	µg/mL	+/-	14.5541	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot K24W001)			+/-	151.0320	µg/mL	Unstressed
	Purity 97%				+/-	151.3905	µg/mL	Stressed
14	1,1-Dichloroethane		2,502.0	µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 75-34-3.SEC	(Lot 5379000)			+/-	150.9567	µg/mL	Unstressed
	Purity 99%				+/-	151.3151	µg/mL	Stressed
15	2,2-Dichloropropane		2,503.2	µg/mL	+/-	14.5541	µg/mL	Gravimetric
	CAS # 594-20-7.SEC	(Lot I7E8E)			+/-	151.0320	µg/mL	Unstressed
	Purity 98%				+/-	151.3905	µg/mL	Stressed
16	trans-1,2-Dichloroethene		2,501.0	µg/mL	+/-	14.5409	µg/mL	Gravimetric
	CAS # 156-60-5.SEC	(Lot TS5UB)			+/-	150.8954	µg/mL	Unstressed
	Purity 97%				+/-	151.2537	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,508.3	µg/mL	+/-	363.4098	µg/mL	Gravimetric
	CAS # 78-83-1.SEC	(Lot PH2XK)			+/-	3,771.4029	µg/mL	Unstressed
	Purity 99%				+/-	3,780.3569	µg/mL	Stressed
18	Chloroform		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 67-66-3.SEC	(Lot 1297547)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
19	Bromochloromethane		2,507.0	µg/mL	+/-	14.5759	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 5670200)			+/-	151.2584	µg/mL	Unstressed
	Purity 99%				+/-	151.6175	µg/mL	Stressed
20	Tetrahydrofuran		5,006.7	µg/mL	+/-	29.1092	µg/mL	Gravimetric
	CAS # 109-99-9.SEC	(Lot 8DAOJ)			+/-	302.0744	µg/mL	Unstressed
	Purity 99%				+/-	302.7916	µg/mL	Stressed
21	1,1,1-Trichloroethane		2,507.7	µg/mL	+/-	14.5798	µg/mL	Gravimetric
	CAS # 71-55-6.SEC	(Lot 7998000)			+/-	151.2986	µg/mL	Unstressed
	Purity 99%				+/-	151.6579	µg/mL	Stressed
22	Cyclohexane		2,508.0	µg/mL	+/-	14.5817	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	151.3188	µg/mL	Unstressed
	Purity 99%				+/-	151.6780	µg/mL	Stressed
23	1,1-Dichloropropene		2,502.4	µg/mL	+/-	14.5492	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 5221100)			+/-	150.9809	µg/mL	Unstressed
	Purity 96%				+/-	151.3393	µg/mL	Stressed

24	Carbon tetrachloride **CAS #** 56-23-5.SEC **Purity** 99%	(Lot 11466)	2,510.3	µg/mL	+/- +/- +/-	14.5953 151.4595 151.8191	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) **CAS #** 142-82-5.SEC **Purity** 99%	(Lot TFHUC)	2,511.8	µg/mL	+/- +/- +/-	14.6040 151.5500 151.9098	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane **CAS #** 107-06-2.SEC **Purity** 99%	(Lot FO6PK)	2,501.3	µg/mL	+/- +/- +/-	14.5430 150.9165 151.2748	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene **CAS #** 71-43-2.SEC **Purity** 99%	(Lot B28Y008)	2,504.8	µg/mL	+/- +/- +/-	14.5633 151.1277 151.4865	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene **CAS #** 79-01-6.SEC **Purity** 99%	(Lot H04X050)	2,508.7	µg/mL	+/- +/- +/-	14.5856 151.3590 151.7183	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane **CAS #** 108-87-2.SEC **Purity** 99%	(Lot Q02QG)	2,504.5	µg/mL	+/- +/- +/-	14.5614 151.1076 151.4663	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane **CAS #** 78-87-5.SEC **Purity** 99%	(Lot ERRBI-RH)	2,504.0	µg/mL	+/- +/- +/-	14.5585 151.0774 151.4361	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1.SEC **Purity** 99%	(Lot YVP2C)	50,008.0	µg/mL	+/- +/- +/-	290.7356 3,017.2028 3,024.3661	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3.SEC **Purity** 99%	(Lot FGI01-OICH)	2,509.5	µg/mL	+/- +/- +/-	14.5904 151.4093 151.7687	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5.SEC **Purity** 99%	(Lot 487OA)	2,502.0	µg/mL	+/- +/- +/-	14.5468 150.9567 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3.SEC **Purity** 99%	(Lot YND2B-BD)	2,501.5	µg/mL	+/- +/- +/-	14.5439 150.9266 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2.SEC **Purity** 99%	(Lot MLWYK-LS)	2,508.8	µg/mL	+/- +/- +/-	14.5866 151.3690 151.7284	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6.SEC **Purity** 96%	(Lot ZDMSL)	2,502.9	µg/mL	+/- +/- +/-	14.5520 151.0098 151.3684	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5.SEC **Purity** 99%	(Lot 7871500)	2,502.5	µg/mL	+/- +/- +/-	14.5498 150.9869 151.3454	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9.SEC **Purity** 99%	(Lot AGN01-EFPC)	2,502.7	µg/mL	+/- +/- +/-	14.5507 150.9970 151.3555	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4.SEC **Purity** 99%	(Lot F09W014)	2,505.0	µg/mL	+/- +/- +/-	14.5643 151.1378 151.4966	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	Dibromochloromethane		2,502.4	µg/mL	+/-	14.5494	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)			+/-	150.9832	µg/mL	Unstressed
	Purity 97%				+/-	151.3417	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,503.3	µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 3505900)			+/-	151.0372	µg/mL	Unstressed
	Purity 99%				+/-	151.3958	µg/mL	Stressed
42	Chlorobenzene		2,504.8	µg/mL	+/-	14.5633	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	151.1277	µg/mL	Unstressed
	Purity 99%				+/-	151.4865	µg/mL	Stressed
43	m-Xylene		1,251.7	µg/mL	+/-	7.2941	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot OUKMG-GB)			+/-	75.5202	µg/mL	Unstressed
	Purity 99%				+/-	75.6995	µg/mL	Stressed
44	p-Xylene		1,253.7	µg/mL	+/-	7.3058	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot GM01)			+/-	75.6409	µg/mL	Unstressed
	Purity 99%				+/-	75.8205	µg/mL	Stressed
45	Ethylbenzene		2,503.5	µg/mL	+/-	14.5556	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)			+/-	151.0472	µg/mL	Unstressed
	Purity 99%				+/-	151.4059	µg/mL	Stressed
46	1,1,1,2-Tetrachloroethane		2,506.7	µg/mL	+/-	14.5740	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)			+/-	151.2383	µg/mL	Unstressed
	Purity 99%				+/-	151.5974	µg/mL	Stressed
47	o-Xylene		2,504.2	µg/mL	+/-	14.5594	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)			+/-	151.0875	µg/mL	Unstressed
	Purity 99%				+/-	151.4462	µg/mL	Stressed
48	Styrene		2,507.2	µg/mL	+/-	14.5769	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)			+/-	151.2685	µg/mL	Unstressed
	Purity 99%				+/-	151.6276	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,505.2	µg/mL	+/-	14.5653	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot 2PHXG-IH)			+/-	151.1478	µg/mL	Unstressed
	Purity 99%				+/-	151.5067	µg/mL	Stressed
50	Bromoform		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 5461400)			+/-	150.8661	µg/mL	Unstressed
	Purity 97%				+/-	151.2243	µg/mL	Stressed
51	Bromodichloromethane		2,501.3	µg/mL	+/-	14.5427	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)			+/-	150.9137	µg/mL	Unstressed
	Purity 98%				+/-	151.2720	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane		2,502.0	µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot CFA4D-AQ)			+/-	150.9567	µg/mL	Unstressed
	Purity 99%				+/-	151.3151	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,505.7	µg/mL	+/-	14.5682	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)			+/-	151.1780	µg/mL	Unstressed
	Purity 99%				+/-	151.5369	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene		2,514.2	µg/mL	+/-	14.6177	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot 100700-3)			+/-	151.6922	µg/mL	Unstressed
	Purity 98%				+/-	152.0524	µg/mL	Stressed
55	n-Propylbenzene		2,503.7	µg/mL	+/-	14.5565	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)			+/-	151.0573	µg/mL	Unstressed
	Purity 99%				+/-	151.4159	µg/mL	Stressed

56	Bromobenzene		2,506.2	µg/mL	+/-	14.5711	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 2FUHG-EM)			+/-	151.2081	µg/mL	Unstressed
	Purity 99%				+/-	151.5671	µg/mL	Stressed
57	1,3,5-Trimethylbenzene		2,510.0	µg/mL	+/-	14.5934	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot FGH02-CMLN)			+/-	151.4394	µg/mL	Unstressed
	Purity 99%				+/-	151.7990	µg/mL	Stressed
58	2-Chlorotoluene		2,504.7	µg/mL	+/-	14.5623	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot SW8QG-AO)			+/-	151.1176	µg/mL	Unstressed
	Purity 99%				+/-	151.4764	µg/mL	Stressed
59	4-Chlorotoluene		2,509.2	µg/mL	+/-	14.5885	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot P4XHJ-AO)			+/-	151.3891	µg/mL	Unstressed
	Purity 99%				+/-	151.7486	µg/mL	Stressed
60	tert-Butylbenzene		2,505.8	µg/mL	+/-	14.5691	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	151.1880	µg/mL	Unstressed
	Purity 99%				+/-	151.5470	µg/mL	Stressed
61	1,2,4-Trimethylbenzene		2,508.7	µg/mL	+/-	14.5856	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/-	151.3590	µg/mL	Unstressed
	Purity 99%				+/-	151.7183	µg/mL	Stressed
62	sec-Butylbenzene		2,504.7	µg/mL	+/-	14.5623	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot OGN01-IMA)			+/-	151.1176	µg/mL	Unstressed
	Purity 99%				+/-	151.4764	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)		2,500.3	µg/mL	+/-	14.5372	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 6628200)			+/-	150.8562	µg/mL	Unstressed
	Purity 99%				+/-	151.2143	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,506.3	µg/mL	+/-	14.5720	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	151.2182	µg/mL	Unstressed
	Purity 99%				+/-	151.5772	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,509.8	µg/mL	+/-	14.5924	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot 4Y5DC)			+/-	151.4294	µg/mL	Unstressed
	Purity 99%				+/-	151.7889	µg/mL	Stressed
66	n-Butylbenzene		2,513.7	µg/mL	+/-	14.6147	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	151.6607	µg/mL	Unstressed
	Purity 99%				+/-	152.0207	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,501.8	µg/mL	+/-	14.5459	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	150.9467	µg/mL	Unstressed
	Purity 99%				+/-	151.3051	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,508.5	µg/mL	+/-	14.5845	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot LC00408V)			+/-	151.3473	µg/mL	Unstressed
	Purity 98%				+/-	151.7066	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,503.3	µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot 3LYYC)			+/-	151.0372	µg/mL	Unstressed
	Purity 99%				+/-	151.3958	µg/mL	Stressed
70	Hexachlorobutadiene		2,504.4	µg/mL	+/-	14.5607	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 5526800)			+/-	151.1002	µg/mL	Unstressed
	Purity 97%				+/-	151.4590	µg/mL	Stressed
71	Naphthalene		2,503.3	µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot 4KW3H-OO)			+/-	151.0372	µg/mL	Unstressed
	Purity 99%				+/-	151.3958	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,512.2	µg/mL	+/-	14.6063	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	151.5740	µg/mL	Unstressed
	Purity 98%				+/-	151.9338	µg/mL	Stressed

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

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

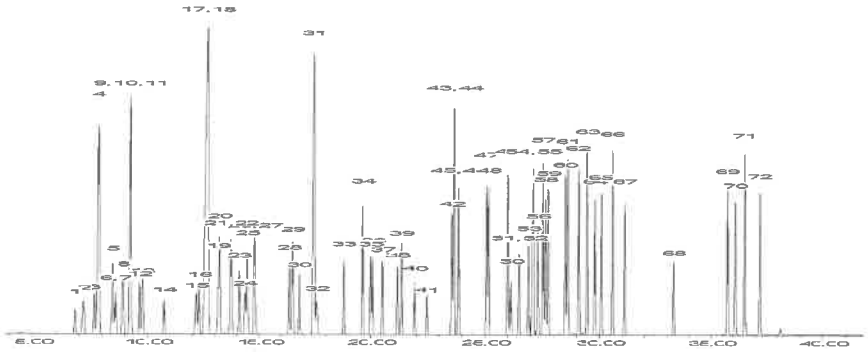
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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.

Brandon Reish - Mix Technician

Date Mixed: 17-Dec-2018 **Balance:** 1127510105

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 21-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

MV-571992_00004

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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. : 571992 **Lot No.:** A0143774

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

Received 8/30/19 GM

4x/mL

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 (Lot SHBJ5713) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00009482) **Purity** 99%	2,501.6 µg/mL	+/- 14.5447 µg/mL +/- 150.9341 µg/mL +/- 151.2925 µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBG8609V) **Purity** 99%	2,501.9 µg/mL	+/- 14.5461 µg/mL +/- 150.9492 µg/mL +/- 151.3076 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBJ9404) **Purity** 99%	25,008.1 µg/mL	+/- 145.3918 µg/mL +/- 1,508.8503 µg/mL +/- 1,512.4325 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9 (Lot SHBG4345V) **Purity** 99%	5,000.8 µg/mL	+/- 29.0748 µg/mL +/- 301.7174 µg/mL +/- 302.4337 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBH4362V) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot WXBB7852V) **Purity** 99%	2,502.0 µg/mL	+/- 14.5468 µg/mL +/- 150.9567 µg/mL +/- 151.3151 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane)		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBK5095)			+/-	150.8813	µg/mL	Unstressed
	Purity 99%				+/-	151.2395	µg/mL	Stressed
9	Carbon disulfide		2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot U22D706)			+/-	150.9040	µg/mL	Unstressed
	Purity 99%				+/-	151.2622	µg/mL	Stressed
10	Acrylonitrile		25,010.4	µg/mL	+/-	145.4049	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot R15D047)			+/-	1,508.9860	µg/mL	Unstressed
	Purity 99%				+/-	1,512.5686	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBH9526)			+/-	150.8512	µg/mL	Unstressed
	Purity 99%				+/-	151.2093	µg/mL	Stressed
12	cis-1,2-Dichloroethene		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKBX5945V)			+/-	150.9115	µg/mL	Unstressed
	Purity 99%				+/-	151.2698	µg/mL	Stressed
13	n-Hexane (C6)		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBH8106)			+/-	150.8813	µg/mL	Unstressed
	Purity 99%				+/-	151.2395	µg/mL	Stressed
14	1,1-Dichloroethane		2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	CAS # 75-34-3	(Lot 462600)			+/-	150.8587	µg/mL	Unstressed
	Purity 99%				+/-	151.2169	µg/mL	Stressed
15	2,2-Dichloropropane		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot BCBT5124)			+/-	150.8889	µg/mL	Unstressed
	Purity 99%				+/-	151.2471	µg/mL	Stressed
16	trans-1,2-Dichloroethene		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot MKBH9850V)			+/-	150.8512	µg/mL	Unstressed
	Purity 99%				+/-	151.2093	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,500.9	µg/mL	+/-	363.3665	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBK0551)			+/-	3,770.9529	µg/mL	Unstressed
	Purity 99%				+/-	3,779.9058	µg/mL	Stressed
18	chloroform		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 67-66-3	(Lot SHBJ9076)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
19	Bromochloromethane		2,500.6	µg/mL	+/-	14.5387	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)			+/-	150.8718	µg/mL	Unstressed
	Purity 98%				+/-	151.2300	µg/mL	Stressed
20	Tetrahydrofuran		5,000.6	µg/mL	+/-	29.0741	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBJ6179)			+/-	301.7099	µg/mL	Unstressed
	Purity 99%				+/-	302.4262	µg/mL	Stressed
21	1,1,1-trichloroethane		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot B15W12061)			+/-	150.8813	µg/mL	Unstressed
	Purity 99%				+/-	151.2395	µg/mL	Stressed
22	Cyclohexane		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKCC9660)			+/-	150.8889	µg/mL	Unstressed
	Purity 99%				+/-	151.2471	µg/mL	Stressed
23	1,1-Dichloropropene		2,500.6	µg/mL	+/-	14.5388	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 180531JLM)			+/-	150.8738	µg/mL	Unstressed
	Purity 99%				+/-	151.2320	µg/mL	Stressed

24	carbon tetrachloride **CAS #** 56-23-5 **Purity** 99%	(Lot SHBJ2110)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) **CAS #** 142-82-5 **Purity** 99%	(Lot SHBJ2424)	2,501.6	µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane **CAS #** 107-06-2 **Purity** 99%	(Lot SHBJ0707)	2,501.3	µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene **CAS #** 71-43-2 **Purity** 99%	(Lot SHBJ5344)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene **CAS #** 79-01-6 **Purity** 99%	(Lot SHBH1955V)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane **CAS #** 108-87-2 **Purity** 99%	(Lot SHBJ0457)	2,501.6	µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane **CAS #** 78-87-5 **Purity** 99%	(Lot BCBR0882V)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBJ7415)	50,001.1	µg/mL	+/- 290.6957 +/- 3,016.7880 +/- 3,023.9503	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3 **Purity** 99%	(Lot 10201030)	2,502.0	µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5 **Purity** 99%	(Lot 25076)	2,501.4	µg/mL	+/- 14.5432 +/- 150.9190 +/- 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3 **Purity** 99%	(Lot SHBJ5659)	2,500.1	µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2 **Purity** 99%	(Lot 69796APV)	2,502.8	µg/mL	+/- 14.5512 +/- 151.0020 +/- 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6 **Purity** 98%	(Lot C797620)	2,500.6	µg/mL	+/- 14.5387 +/- 150.8718 +/- 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5 **Purity** 99%	(Lot FGB01)	2,500.4	µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9 **Purity** 99%	(Lot BCBG2162V)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4 **Purity** 99%	(Lot SHBH9691)	2,501.0	µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane		2,502.4	µg/mL	+/-	14.5493	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCC0877)			+/-	150.9827	µg/mL	Unstressed
	Purity 98%				+/-	151.3411	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBH3877V)			+/-	150.8587	µg/mL	Unstressed
	Purity 99%				+/-	151.2169	µg/mL	Stressed
42	Chlorobenzene		2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBH4459V)			+/-	150.9040	µg/mL	Unstressed
	Purity 99%				+/-	151.2622	µg/mL	Stressed
43	m-Xylene		1,251.5	µg/mL	+/-	7.2763	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBJ2338)			+/-	75.5085	µg/mL	Unstressed
	Purity 99%				+/-	75.6878	µg/mL	Stressed
44	p-Xylene		1,250.1	µg/mL	+/-	7.2683	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBJ0052)			+/-	75.4256	µg/mL	Unstressed
	Purity 99%				+/-	75.6047	µg/mL	Stressed
45	Ethylbenzene		2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBJ3183)			+/-	150.8361	µg/mL	Unstressed
	Purity 99%				+/-	151.1942	µg/mL	Stressed
46	1,1,1,2-Tetrachloroethane		2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot MKBS3769V)			+/-	150.8361	µg/mL	Unstressed
	Purity 99%				+/-	151.1942	µg/mL	Stressed
47	o-Xylene		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBH7231)			+/-	150.8813	µg/mL	Unstressed
	Purity 99%				+/-	151.2395	µg/mL	Stressed
48	Styrene		2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKCC9766)			+/-	150.8361	µg/mL	Unstressed
	Purity 99%				+/-	151.1942	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot 10185056)			+/-	150.8436	µg/mL	Unstressed
	Purity 99%				+/-	151.2017	µg/mL	Stressed
50	bromoform		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBG3138V)			+/-	150.8964	µg/mL	Unstressed
	Purity 99%				+/-	151.2547	µg/mL	Stressed
51	bromodichloromethane		2,501.6	µg/mL	+/-	14.5447	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCF8470)			+/-	150.9341	µg/mL	Unstressed
	Purity 99%				+/-	151.2925	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot BCBH8722V)			+/-	150.9115	µg/mL	Unstressed
	Purity 99%				+/-	151.2698	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene		2,500.0	µg/mL	+/-	14.5355	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot MKBX7788V)			+/-	150.8389	µg/mL	Unstressed
	Purity 94%				+/-	151.1971	µg/mL	Stressed
55	n-Propylbenzene		2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot WXBC3346V)			+/-	150.8361	µg/mL	Unstressed
	Purity 99%				+/-	151.1942	µg/mL	Stressed

56	Bromobenzene		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot WXBC5147V)			+/-	150.8436	µg/mL	Unstressed
	Purity 99%				+/-	151.2017	µg/mL	Stressed
57	1,3,5-Trimethylbenzene		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCBS7648V)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
58	2-Chlorotoluene		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKBW5554V)			+/-	150.8436	µg/mL	Unstressed
	Purity 99%				+/-	151.2017	µg/mL	Stressed
59	4-Chlorotoluene		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKBL7753V)			+/-	150.8889	µg/mL	Unstressed
	Purity 99%				+/-	151.2471	µg/mL	Stressed
60	tert-Butylbenzene		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot STBD6954V)			+/-	150.8436	µg/mL	Unstressed
	Purity 99%				+/-	151.2017	µg/mL	Stressed
61	1,2,4-Trimethylbenzene		2,499.9	µg/mL	+/-	14.5348	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot MKBH5027V)			+/-	150.8320	µg/mL	Unstressed
	Purity 97%				+/-	151.1901	µg/mL	Stressed
62	sec-Butylbenzene		2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKBR9260V)			+/-	150.9040	µg/mL	Unstressed
	Purity 99%				+/-	151.2622	µg/mL	Stressed
63	p-Isopropyltoluene (p-Cymene)		2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKBV3556V)			+/-	150.9040	µg/mL	Unstressed
	Purity 99%				+/-	151.2622	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,501.4	µg/mL	+/-	14.5432	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBQ7100V)			+/-	150.9190	µg/mL	Unstressed
	Purity 99%				+/-	151.2773	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	150.9266	µg/mL	Unstressed
	Purity 99%				+/-	151.2849	µg/mL	Stressed
66	n-Butylbenzene		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09804AE)			+/-	150.8964	µg/mL	Unstressed
	Purity 99%				+/-	151.2547	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,502.9	µg/mL	+/-	14.5519	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBG3111V)			+/-	151.0095	µg/mL	Unstressed
	Purity 99%				+/-	151.3681	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,502.0	µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot FBL01)			+/-	150.9567	µg/mL	Unstressed
	Purity 99%				+/-	151.3151	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,502.1	µg/mL	+/-	14.5476	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBJ9215)			+/-	150.9643	µg/mL	Unstressed
	Purity 99%				+/-	151.3227	µg/mL	Stressed
70	Hexachlorobutadiene		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot J31X013)			+/-	150.9266	µg/mL	Unstressed
	Purity 99%				+/-	151.2849	µg/mL	Stressed
71	Naphthalene		2,502.8	µg/mL	+/-	14.5512	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBZ8680V)			+/-	151.0020	µg/mL	Unstressed
	Purity 99%				+/-	151.3605	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,502.5 µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)		+/-	150.9869	µg/mL	Unstressed
	Purity 99%			+/-	151.3454	µg/mL	Stressed

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

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

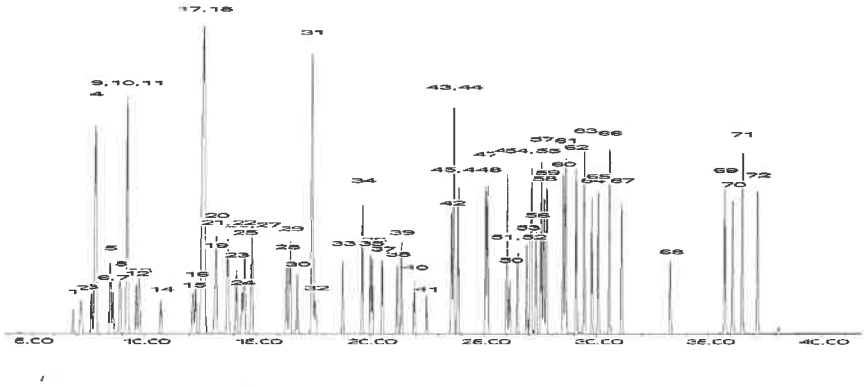
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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.

F. Joseph Tallon - Mix Technician

Date Mixed: 05-Dec-2018 **Balance:** B251644995

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 21-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

MV-CUS17739_00005

Agilent

Certificate of Analysis
ISO 17034

Custom Standard

Product Number: CUS-17739 **Page:** 1 of 1

Lot Number: 0006503344 **Lot Issue Date:** 12-Nov-2019 **Expiration Date:** 31-Dec-2021

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent Technologies ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
1-chlorohexane	000544-10-5	RM12893	1001 ± 5 µg/mL
2-pentanone	000107-87-9	RM03775	4016 ± 20 µg/mL
sec-butanol	000078-92-2	RM01299	30126 ± 151 µg/mL

Matrix: methanol (purge & trap grade)

Storage: Store Frozen (-25° to -10°C).

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

M Bourgeois

Monica Bourgeois
QMS Representative

12/11/19

RECEIVED

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

Reagent

mv-IS/SS Tune_00001

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 570812 **Lot No.:** A0143593

Description : 8260 IS/Surrogate Mix (2016)

8260 IS/Surrogate Mix (2016) 250-5,000µg/mL, P&T Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butyl-d9-alcohol	5,000.1 µg/mL	+/- 29.0694 µg/mL	Gravimetric
	CAS # 25725-11-5 (Lot CD-107)		+/- 107.0521 µg/mL	Unstressed
	Purity 98%		+/- 110.1643 µg/mL	Stressed
2	Dibromofluoromethane	250.2 µg/mL	+/- 1.4580 µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 0012017)		+/- 5.3577 µg/mL	Unstressed
	Purity 99%		+/- 5.5134 µg/mL	Stressed
3	1,2-Dichloroethane-d4	250.3 µg/mL	+/- 1.4584 µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot PR-29377)		+/- 5.3592 µg/mL	Unstressed
	Purity 99%		+/- 5.5149 µg/mL	Stressed
4	1,4-Dioxane-d8	5,000.5 µg/mL	+/- 29.0716 µg/mL	Gravimetric
	CAS # 17647-74-4 (Lot I-19942)		+/- 107.0602 µg/mL	Unstressed
	Purity 99%		+/- 110.1726 µg/mL	Stressed
5	Fluorobenzene	250.1 µg/mL	+/- 1.4573 µg/mL	Gravimetric
	CAS # 462-06-6 (Lot BCBK8171V)		+/- 5.3549 µg/mL	Unstressed
	Purity 99%		+/- 5.5105 µg/mL	Stressed
6	Toluene-d8	250.1 µg/mL	+/- 1.4575 µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot PR-27311)		+/- 5.3556 µg/mL	Unstressed
	Purity 99%		+/- 5.5112 µg/mL	Stressed
7	Chlorobenzene-d5	250.5 µg/mL	+/- 1.4600 µg/mL	Gravimetric
	CAS # 3114-55-4 (Lot PR-23926)		+/- 5.3649 µg/mL	Unstressed
	Purity 99%		+/- 5.5208 µg/mL	Stressed

8	1-Bromo-4-fluorobenzene (BFB)		250.1	µg/mL	+/-	1.4575	µg/mL	Gravimetric
	CAS # 460-00-4	(Lot 20401KO)			+/-	5.3556	µg/mL	Unstressed
	Purity 99%				+/-	5.5112	µg/mL	Stressed
9	1,4-Dichlorobenzene-d4		250.2	µg/mL	+/-	1.4580	µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-18488)			+/-	5.3577	µg/mL	Unstressed
	Purity 99%				+/-	5.5134	µg/mL	Stressed

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

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

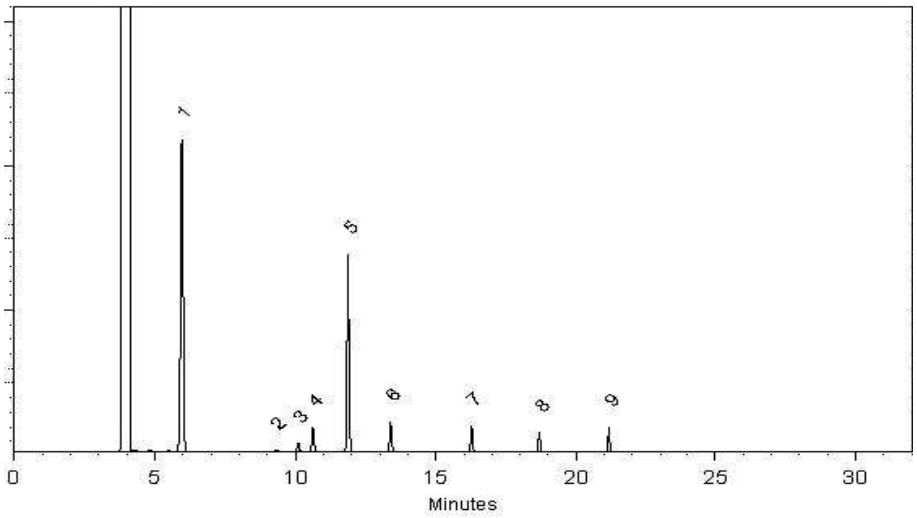
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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.

F. Joseph Tallon - Mix Technician

Date Mixed: 29-Nov-2018 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 18-Dec-2018

Manufactured under Restek's ISO 9001:2015 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 17034 and Guide 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:

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

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:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

NH3 CAL STD_00031

RICCA CHEMICAL COMPANY®

1841 Broad Street
Pocomoke City, MD 21851
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Ammonia Nitrogen Standard, 1000 ppm N (1216 ppm NH_3)

Lot Number: 2902E25 **Product Number:** 5455

Manufacture Date: FEB 25, 2019
Expiration Date: AUG 2020

The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is based upon the volumetric method of preparation.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Ammonium Chloride	12125-02-9	High Purity

Test	Specification	Result
Appearance	Colorless liquid	Passed
Nitrogen (N)	995-1005 ppm	1000 ppm

Specification	Reference
Ammonia Solution, Stock (1.0 mL = 1.0 mg ammonia nitrogen)	ASTM (D 3590 A)
Ammonia Solution, Stock (1.0 mL = 1.0 mg ammonium nitrogen)	ASTM (D 3590 B)
Stock Ammonium Chloride Solution	APHA (4500-CN- L)
Stock Ammonium Solution	APHA (4500-NH3 C)
Stock Ammonium chloride Solution	APHA (4500-NH3 D)
Stock Ammonium Solution	APHA (4500-NH3 F)
Ammonium Chloride, Stock Solution, 1.0 mL = 1.0 mg NH3-N	EPA (351.2)
Ammonium Chloride, Stock Solution, 1.0 mL = 1.0 mg NH3-N	EPA (350.2)
Ammonium Chloride, Stock Solution, 1.0 mL = 1.0 mg NH3-N	EPA (350.3)
Ammonium Chloride, Stock Solution, 1.0 mL = 1.0 mg NH3-N	EPA (351.4)
Stock Solution, 1.0 mL = 1.0 mg NH3-N	EPA (350.1)
Ammonium Chloride, Stock Solution, 1.0 mL = 1.0 mg NH3-N	EPA (351.3)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
5455-16	500 mL natural poly	18 months
5455-32	1 L natural poly	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Tara Jones (02/25/2019)

Quality Control Supervisor

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Reagent

NH3 ICV STD_00027

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO Guide 34, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Ion Chromatography Solution
Catalog Number:	ICNNH41
Lot Number:	N2-NH669544
Matrix:	H2O
Value / Analyte(s):	1 000 µg/mL ea: Ammonium as N
Starting Material:	Ammonium chloride
Starting Material Lot#:	1736
Starting Material Purity:	99.0000%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 3 µg/mL

Density: 0.999 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **1005 ± 3 µg/mL**
IC Assay NIST SRM 194a Lot Number: 194a

Assay Method #2 **997 ± 3 µg/mL**
Fajans NIST SRM 999c Lot Number: 999c

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two Methods

Certified Value, $X_{CRM/RM}$, where two methods of characterization are used is the weighted mean of the two results:

$X_{CRM/RM} = [(w_a)(X_a) + (w_b)(X_b)]$

X_a = mean of Assay Method A with standard uncertainty $u_{char\ a}$

X_b = mean of Assay Method B with standard uncertainty $u_{char\ b}$

w_a and w_b = the weighting factors for each method calculated using the inverse square of the variance:

$w_a = (1/u_{char\ a})^2 / ((1/u_{char\ a})^2 + (1/u_{char\ b})^2))$

$w_b = (1/u_{char\ b})^2 / ((1/u_{char\ a})^2 + (1/u_{char\ b})^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a\&b} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2 in all cases at Inorganic Ventures

$u_{char\ a\&b} = [(w_a)^2 (u_{char\ a})^2 + (w_b)^2 (u_{char\ b})^2]^{1/2}$ where $u_{char\ a}$ and $u_{char\ b}$ are the square root of the sum of the squares of errors from characterization which include instrument measurement, density, NIST SRM uncertainty, weighing, and volume

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM}$ = mean of Assay Method A with standard uncertainty $u_{char\ a}$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2 in all cases at Inorganic Ventures

$u_{char\ a}$ = square root of the sum of the squares of the errors from characterization which include instrumental measurement, density, NIST SRM uncertainty, weighing, and volume

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

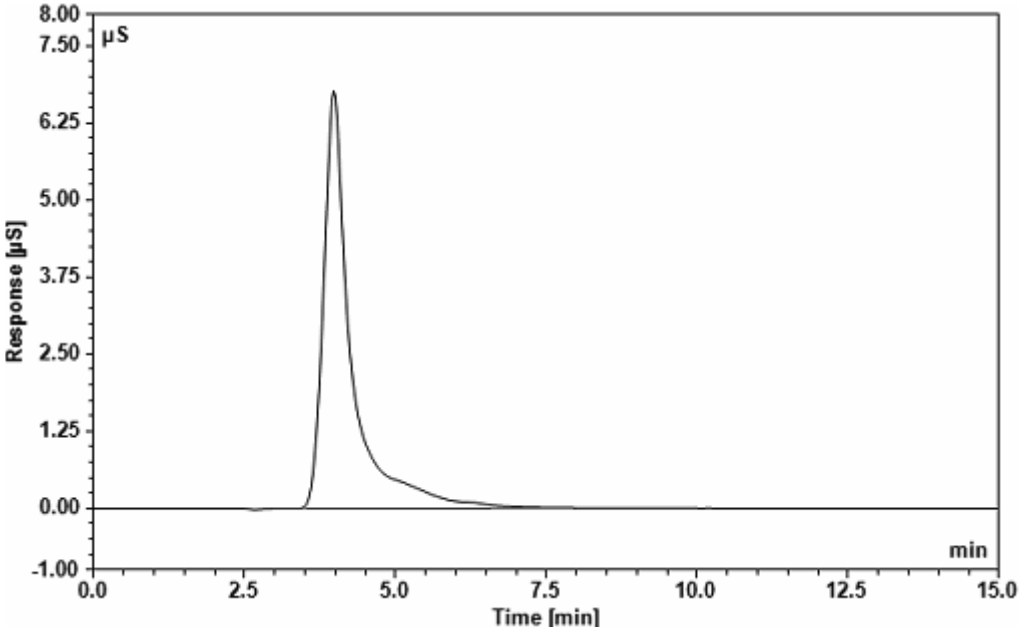
4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 CHROMATOGRAM



Dionex ICS-2000 Ion Chromatograph

Analytical Column:	IonPac CS18 2 x 250 mm	**Eluent:**	10 mM MSA
Guard Column:	IonPac CG18 2 x 50 mm	**Eluent Flow Rate:**	0.25 mL/min
Anion Self Regen Suppressor/ Chemical Suppression:	N/A	**Column Temp:**	35 °C
		Cell Temp:	35 °C
Cation Self Regen Suppressor/ Chemical Suppression:	CERS 500 2mm	**Scale X-Axis:**	minutes
		Scale Y-Axis:	8 µS/cm
		Concentration:	10 µg/g
Suppressor Current/ Chemical Suppressant:	8 mA		

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO Guide 34 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 01, 2018

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 01, 2022**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

James King Jr
Chemist, Technical Manager



Certificate Approved By:

Michael Booth
Supervisor, Quality Control



Certifying Officer:

Paul Gaines
CEO, Senior Technical Director



Reagent

NOXT ICV STD_00023

ERA

A Waters Company

Certificate of Analysis

PRODUCT:	1000 mg/L Nitrate as N (NO_3-N)
CATALOG NUMBER:	052 -125 mL; 991 - 500 mL
LOT NUMBER:	130319m
ISSUE DATE:	April 3, 2019
REVISION DATE:	Original
STARTING MATERIAL:	Potassium Nitrate (KNO_3)
CERTIFIED CONCENTRATION[1]:	1000 mg/L
UNCERTAINTY[2]:	0.6%
MATRIX:	18 megohm deionized water
DENSITY:	1.0041 ± 0.0004 g/mL at 18.4°C and 754 mm Hg
TRACEABILITY[3]:	101%
NIST/SRM:	3185 Nitrate
VERIFICATION METHOD:	Ion Chromatography
STORAGE:	Store at 20-25°C

1. The **Certified Concentration** is the actual made-to concentration confirmed by ERA analytical verification.

2. The stated **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation of the product and includes uncertainty related to the starting material used and the volumetric and gravimetric measurements made. The method of calculating uncertainty is taken from the ISO Guide to the Expression of Uncertainty in Measurement (current version). The uncertainty applies to the product as supplied and does not take into account any required or optional dilutions and/or preparations the laboratory may perform while using this product.

3. Traceability ((% Recovery Certified Standard)/(% Recovery NIST SRM))* 100.

   The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs. Where a NIST SRM is not available, the product is metrologically traceable through an unbroken chain of calibrations to NIST weights, each having stated uncertainties and utilizing measurement standards that are appropriate for the physical and/or chemical property being measured.

This standard **expires 3/11/2021**. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

This product is intended to be used as either a calibration standard or a quality control check of the entire analytical process for the analytes/matrix included in the standard.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or email to info@eraqc.com

Certifying Officer: Brian Miller - Product Line Manager

ISO/IEC GUIDE 34:2009

ACCREDITED

REFERENCE MATERIAL PRODUCER
CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005

ACCREDITED

CHEMICAL TESTING LABORATORY
CERTIFICATE NO. 1539.02

16341 Table Mtn Pkwy, Golden, CO 80403 800-372-0122 fax: 303-421-0159 www.eraqc.com

Reagent

PicricARestek_00090

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.:** A0131892

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 : October 31, 2022 **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** 97% (Lot 06130CU)	1,004.9 µg/mL	+/- 5.9689	µg/mL	Gravimetric
			+/- 55.0525	µg/mL	Unstressed
			+/- 64.1967	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)

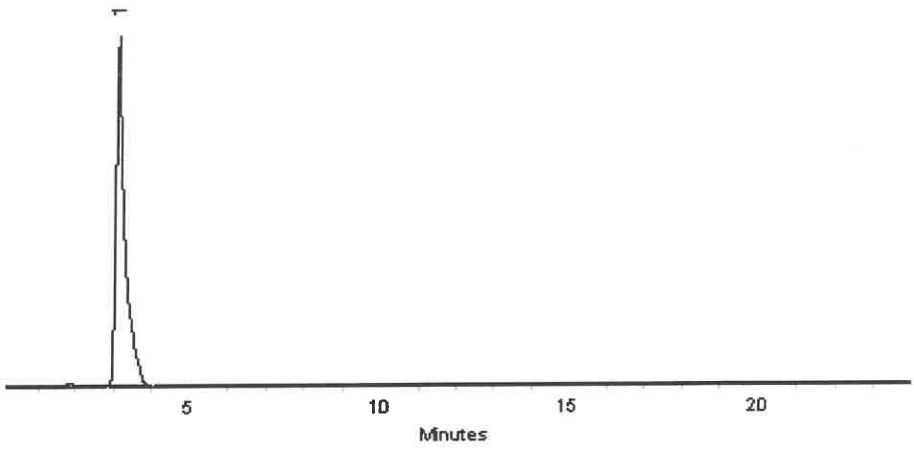
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

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.

Matt Fragassi - Mix Technician

Date Mixed: 25-Oct-2017 **Balance:** B345965662

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 30-Oct-2017

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

Reagent

RSK175methane_00010

Airgas
an Air Liquide company

Airgas Specialty Gases
Airgas USA, LLC
6141 Easton Road
Bldg 1
Plumsteadville, PA 18949
Airgas.com

CERTIFICATE OF BATCH ANALYSIS

Grade of Product: CP

Customer:	SIGMA-ALDRICH		
Part Number:	ME CPP14C514	Reference Number:	160-401480003-1
Cylinder Analyzed:	ST0000198540	Cylinder Volume:	14.0 LG
Laboratory:	124 - Plumsteadville - PA	Cylinder Pressure:	240 PSIG
Analysis Date:	Apr 16, 2019	Valve Outlet:	160
Lot Number:	160-401480003-1		

Expiration Date: Apr 16, 2022

ANALYTICAL RESULTS

Component	Requested Purity	Certified Concentration
METHANE	> 99.0 %	> 99.0 %

Cylinders in Batch:

ST0000198540, ST0000198541, ST0000198542, ST0000198543

Notes:MANUFACTURE DATE 4-16-2019
PO# P481562
P/N 22562

Impurities verified against analytical standards traceable to NIST by weight and/or analysis.

Approved for Release

Reagent

RSK7gasMathes_00027

MATHESON
ask. . .The Gas Professionals™

Analysis Report

To: MATHESON LINWELD
4705 NOME ST
P O BOX 39126
DENVER, CO 80239

MTG Customer No: 504445

Manufacturing Location
200 ALESSIO DR
JOLIET, IL 60433

Product: Multi-Component Mixture

Grade: CERTIFIED
MTG Part No: G2682238

Cylinder Size: 4
Valve: CGA 350 SS

Contents:
Net: 7.57 ft³; 0.21 m³

Pressure: 1400 psia @ 70°F; 9653 kPa @ 21°C

CYLINDER NUMBER(S)
*DL955755

	Requested Concentration	Certified Concentration	Units	Blend Tolerance	Certified Accuracy
Butane	1.00	0.995	%	±10%	±2%
Acetylene	1.00	0.995	%	±10%	±2%
Isobutylene	1.00	0.995	%	±10%	±2%
Propane	1.00	0.995	%	±10%	±2%
Ethene	1.00	0.996	%	±10%	±2%
Ethylene	1.00	0.996	%	±10%	±2%
Methane	1.00	0.999	%	±10%	±2%
Nitrogen	Balance	Balance			

TRACEABILITY

COMMENTS

* Indicates the actual cylinder(s) analyzed.

Lot No: 1029602081C
Fill Date: 09/04/2019
Expiration Date: 09/09/2021
Analysis Date: 09/09/2019

Unless otherwise indicated, Matheson Tri-Gas terms and conditions govern the product data contained herein. This document was issued electronically and data validated by electronic signature. For further information visit www.matheson-trigas.com.

Jennifer Fender - Analyst	09/09/2019 Date	Jennifer Fender - QA Approval	09/09/2019 Date

Reagent

RSK7gasMathes_00031

MATHESON

ask. . .The Gas Professionals™

Analysis Report

To: MATHESON LINWELD
4705 NOME ST
P O BOX 39126
DENVER, CO 80239

MTG Customer No: 504445

Manufacturing Location
1700 SCEPTER ROAD
WAVERLY, TN 37185

Product: Multi-Component Mixture

Grade: CERTIFIED

MTG Part No: G2682238

Cylinder Size: 4
Valve: CGA 350 SS

Contents:
Net: 7.57 ft³; 0.21 m³

Pressure: 1400 psia @ 70°F; 9653 kPa @ 21°C

CYLINDER NUMBER(S)
*DL039162

	Requested Concentration	Certified Concentration	Units -	Blend Tolerance	Certified Accuracy
Butane	1.00	1.00	%	±10%	±2%
Acetylene	1.00	1.00	%	±10%	±2%
Isobutylene	1.00	1.01	%	±10%	±2%
Propane	1.00	1.00	%	±10%	±2%
Ethane	1.00	1.01	%	±10%	±2%
Ethylene	1.00	1.00	%	±10%	±2%
Methane	1.00	1.00	%	±10%	±2%
Nitrogen	Balance	Balance			

TRACEABILITY

COMMENTS

* Indicates the actual cylinder(s) analyzed.

Lot No: 9300606746
Fill Date: 02/23/2020
Expiration Date: 03/09/2022
Analysis Date: 03/09/2020

Unless otherwise indicated, Matheson Tri-Gas terms and conditions govern the product data contained herein. This document was issued electronically and data validated by electronic signature. For further information visit www.matheson-trigas.com.

Eric Popa - Analyst — 03/09/2020 — Date

Meriah Boyett - QA Approval — 03/09/2020 — Date

Reagent

SFD CAL STK_00006

ACROS ORGANICS

Version	02
Molecular weight	240.18
Quality Test / Release Date	09/06/2018
Molecular Formula	Na2 S . 9 H2 O
CAS No	1313-84-4
Linear Formula	Na2S.9H2O
Flash Point (°C)	

Certificate of Analysis

This is to certify that units of the above mentioned lot number were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Acros Organics expressly disclaims all warranties,expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Unless otherwise stated, these products are not intended for dialysis, parenteral, or injectable use without further processing. The following are the actual analytical results obtained:

Catalog Number	38706	**Quality Test / Release Date** 09/06/2018
Lot Number	A0390872	
Description	Sodium sulfide nonahydrate,98+%,extra pure	
Country of Origin	INDIA	
Declaration of Origin	synthetic	

BSE/TSE comment	
Chemical Comment	

Result name	Units	Specifications	Test Value
Appearance (Color)		Colorless to light yellow	Light yellow
Appearance (Form)		Adhering crystals and/or chunks	Adhering crystals and chunks
Titration Iodimetric		32.0 to 38.0 % (Na2S)	35.9 % (Na2S)
Total nitrogen (as N)		=<0.005 %	=<0.005 %
Sulfite (as SO2)		=<2000 ppm	=<2000 ppm
Thiosulphate (S2O3)		=<5000 ppm	=<5000 ppm



CERTIFIED BY

L. Van den Broek, QA Manager

Issued: 09-06-2018

Acros Organics
ENA23, zone1, nr 1350, Janssen Pharmaceuticalaan 3a, B-2440 Geel, Belgium
Tel +32 14/57.52.11 - Fax +32 14/59.34.34 Internet: http://www.acros.com
1 Regent Lane, Fair Lawn, NJ 07410, USA Fax 201-796-1329

Reagent

TKN CAL STD_00017

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Certificate of Analysis

TKN Calibration Standard - 1000 mg/L

Catalog Number: IS-009, IS-009-500
Lot Number: 010617
Manufacture Date: 01/06/17
Certified Date: 01/12/17

Expiration: 01/31/2021
Matrix: Water
Hazards: Irritant
(See MSDS)

Bulk Number	Analyte	CAS #	Purity	Certified Concentration (mg/L TKN)
W-1477-25	TKN from Glycine	56-40-6	99.4%	1000 ± 4.60

Packaging, Storage, Instructions For Use

Store at room temperature (15-30°C). After opening, this solution should be stored tightly capped at 2-8°C.

This certified reference material (CRM) is packaged in low density polyethylene. Allow to equilibrate to room temperature before use. Small aliquots should be poured out of the bottle rather than directly pipetted out of bottle in order to prevent contamination or premature degradation. A 1 mL sample size is recommended. Smaller sample volumes may negatively affect estimated uncertainty.

Traceability Information

Analyte Source Materials: The highest purity analyte source materials are used in the manufacture of this CRM. The actual purity is referenced above. Analyte source material purity and associated uncertainty has been analytically verified against appropriate NIST SRMs, if available.

Method: Certified concentration confirmed by HPLC analysis against an independent reference standard with n=3.

Balance: All analytical balances are calibrated on a semiannual basis by an ISO 17025 accredited calibration laboratory and are traceable to NIST. Traceable Calibration Certificate available upon request.

All balances are checked daily by an in-house standard operating procedure. The weights used for this daily verification are calibrated annually by an ISO 17025 accredited calibration laboratory and are certified traceable to NIST. Certificate of Calibration and Traceability available upon request.

Thermometer: All thermometers are NIST traceable through thermometers that are calibrated annually by an ISO 17025 accredited calibration laboratory.

Glassware: All glassware used in the manufacture of our CRMs is Class A. An in-house standard operating procedure is used to verify all glassware prior to it being placed into service. Volumetric pipetors are calibrated every four months by an ISO 17025 accredited calibration laboratory.

Catalog Number: IS-009, IS-009-500
Lot Number: 010617

Intended Uses

- Calibration of analytical instruments
- Validation of analytical methods
- Preparation of working level reference materials, i.e. "check standards"
- Detection limit studies

Uncertainty

The ± uncertainty associated with the certified concentration is the expanded uncertainty at 95% confidence interval (CI) with K=2. This expanded uncertainty incorporates contributions from manufacturing, homogeneity, and stability.

Homogeneity

This CRM was thoroughly mixed in production. Batch homogeneity was established through analysis of samples chosen at random. A minimum 1 mL sample size is recommended.

Stability/Expiration

The stability of this CRM is based on short-term and long-term monitoring of the certified concentration. The expiration date is guaranteed to be valid from the manufacture date and is based on results of long-term monitoring.

Ewart Morris

Ewart Morris, Inorganics Technical Manager

Mark Hammersla

Mark Hammersla, President

Reagent

TKN ICV_00011

ERA

A Waters Company

Certificate of Analysis

PRODUCT:	1000 mg/L Total Kjeldahl Nitrogen (TKN)
CATALOG NUMBER:	043 -125 mL; 996 - 500 mL
LOT NUMBER:	281018
ISSUE DATE:	December 7, 2018
REVISION DATE:	Original
STARTING MATERIAL:	Glycine (NH_2CH_2COOH)
CERTIFIED CONCENTRATION[1]:	1000 mg/L
UNCERTAINTY[2]:	0.6%
MATRIX:	18 megohm deionized water and 1% (v/v) HCl
DENSITY:	1.0055 ± 0.0010 g/mL at 16.6°C and 754 mm Hg
TRACEABILITY[3]:	100%
NIST/SRM:	194a Ammonium Dihydrogen Phosphate
VERIFICATION METHOD:	Ion Selective Electrode (ISE)
STORAGE:	Store at 20-25°C

1. The **Certified Concentration** is the actual made-to concentration confirmed by ERA analytical verification.

2. The stated **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation of the product and includes uncertainty related to the starting material used and the volumetric and gravimetric measurements made. The method of calculating uncertainty is taken from the ISO Guide to the Expression of Uncertainty in Measurement (current version). The uncertainty applies to the product as supplied and does not take into account any required or optional dilutions and/or preparations the laboratory may perform while using this product.

3. Traceability ((% Recovery Certified Standard)/(% Recovery NIST SRM))* 100.

   The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs. Where a NIST SRM is not available, the product is metrologically traceable through an unbroken chain of calibrations to NIST weights, each having stated uncertainties and utilizing measurement standards that are appropriate for the physical and/or chemical property being measured.

This standard **expires 10/2020**. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

This product is intended to be used as either a calibration standard or a quality control check of the entire analytical process for the analytes/matrix included in the standard.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or email to info@eraqc.com

Certifying Officer: Brian Miller - Product Line Manager

ISO/IEC GUIDE 34:2009

ACCREDITED

REFERENCE MATERIAL PRODUCER
CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005

ACCREDITED

CHEMICAL TESTING LABORATORY
CERTIFICATE NO. 1439.02

16341 Table Mtn Pkwy, Golden, CO 80403 800-372-0122 fax: 303-421-0159 www.eraqc.com

Reagent

TOC ICV Std_00044

RICCA CHEMICAL COMPANY®

448 West Fork Dr
Arlington, TX 76012
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Organic Carbon Standard, 1000 ppm C

Lot Number: 1001C32 **Product Number:** 1847

Manufacture Date: JAN 30, 2020
Expiration Date: JAN 2021

The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is based upon the volumetric method of preparation.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Phosphoric Acid	7664-38-2	ACS
Potassium Acid Phthalate	877-24-7	ACS Acidimetric

Test	Specification	Result
Appearance	Colorless liquid	Passed
Carbon (C)	995-1005 ppm	1000 ppm

Specification	Reference
Organic Carbon Stock Solution	APHA (5310 B)
Potassium Hydrogen Phthalate, Stock Solution	EPA (SW-846) (9060)
Potassium Hydrogen Phthalate, Stock Solution, 1000 mg Carbon/lit	EPA (415.1)
Organic Carbon Solution, Standard (1 mL = 1 mg C)	ASTM (D 2579)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1847-16	500 mL amber glass	12 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Israel Alamudun (01/30/2020)
Quality Control Supervisor
This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Reagent

TOC LCS Std_00048

Agilent

Certificate of Analysis
ISO Guide 34

Product Number: IQC-106
Lot Number: 0006465171

Lot Issue Date: 10-May 2019
Expiration Date: 30-Jun 2021

Product Name: Total Organic Carbon (TOC) Standard

Description:
This Reference Material (RM) was gravimetrically prepared in accordance with ISO Guide 34 and under Agilent's ISO 9001 registered quality system. The neat materials used for this product have been verified by Agilent's ISO 17025 laboratory and under Agilent's ISO Guide 34 accreditation. The analyte concentrations were verified by Agilent's ISO 17025 accredited laboratory. For each analyte, the true value, with its uncertainty value calculated at the 95% confidence level, is reported below.

Analyte	Starting Material	Lot Number	Purity (%)	Analyte Concentration	Traceability & Method
TOC	potassium hydrogen phthalate	RM14067	99.97	1001 ± 5 µg/mL	NAA02099; TOC Analyzer

Solvent: water (low TOC, <50 ppb)

Storage: Store at Room Temperature (15° to 30°C).

Traceability:
Traceability has been established through an unbroken chain of comparisons, each having stated uncertainties. Comparisons are based on appropriate physical or chemical measurements, including gravimetric or volumetric dilution, where the mass or volume of a solution before and after dilution is measured. The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1, ISO 9001, ISO 17025, and ISO Guide 34. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 819.

Estimation of Uncertainties:
The true value is reported, with its uncertainty value calculated at the 95% confidence level.

Homogeneity:
This RM was formulated and unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening and should be processed without delay for the true value to be valid within the stated uncertainties. Do not pipet from the bottle. Do not return any material removed for pipetting to the bottle. Tightly cap the bottle after removing any material and store according to the instructions noted above.

Hazards:
Refer to the Safety Data Sheet for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid, within the measurement uncertainty specified, until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER
ISO Guide 34 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO17025 Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

Certificate of Analysis
ISO Guide 34

Product Number: IQC-106
Lot Number: 0006465171

Lot Issue Date: 10-May 2019
Expiration Date: 30-Jun 2021

Maintenance of Certification:
The real-time, long term stability of the RM may be monitored over the lifetime of the certification. If substantive changes occur that affect the certification before the expiration of this certificate, Agilent Technologies will notify the purchaser.

Monica Bourgeois
QMS Representative

ISO Guide 34 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System

ISO17025 Cert No.
AT-1937

Reagent

TOC LCS Std_00050

Agilent

Certificate of Analysis
ISO 17034

Product Number: IQC-106
Lot Number: 0006475816

Lot Issue Date: 09-Jul 2019
Expiration Date: 31-Aug 2021

Product Name: Total Organic Carbon (TOC) Standard

Description:
This Reference Material (RM) was gravimetrically prepared in accordance with ISO 17034 and under Agilent's ISO 9001 registered quality system. The neat materials used for this product have been verified by Agilent's ISO 17025 laboratory and under Agilent's ISO 17034 accreditation. The analyte concentrations were verified by Agilent's ISO 17025 accredited laboratory. For each analyte, the true value, with its uncertainty value calculated at the 95% confidence level, is reported below.

Analyte	Starting Material	Lot Number	Purity (%)	Analyte Concentration	Traceability & Method
TOC	potassium hydrogen phthalate	RM14067	99.97	1000 ± 5 µg/mL	NAA02099; TOC Analyzer

Solvent: water (low TOC, <50 ppb)

Storage: Store at Room Temperature (15° to 30°C).

Traceability:
Traceability has been established through an unbroken chain of comparisons, each having stated uncertainties. Comparisons are based on appropriate physical or chemical measurements, including gravimetric or volumetric dilution, where the mass or volume of a solution before and after dilution is measured. The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 819.

Estimation of Uncertainties:
The true value is reported, with its uncertainty value calculated at the 95% confidence level.

Homogeneity:
This RM was formulated and unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening and should be processed without delay for the true value to be valid within the stated uncertainties. Do not pipet from the bottle. Do not return any material removed for pipetting to the bottle. Tightly cap the bottle after removing any material and store according to the instructions noted above.

Hazards:
Refer to the Safety Data Sheet for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid, within the measurement uncertainty specified, until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED TESTING LABORATORY
ISO17025 Cert No. AT-1937

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Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 (60. ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
WC-Q3-JUNE20	280-137736-1	100	98	98	99
TB03-061620	280-137736-2	101	98	97	99
	MB 280-499912/10	100	96	98	100
	LCS 280-499912/5	99	95	98	100
	LCSD 280-499912/6	100	96	97	99

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	80-119
DCA = 1,2-Dichloroethane-d4 (Surr)	81-118
TOL = Toluene-d8 (Surr)	89-112
BFB = 4-Bromofluorobenzene (Surr)	85-114

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P2666.D

Lab ID: LCS 280-499912/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	24.1	96	74-131	
1,1,2,2-Tetrachloroethane	25.0	26.0	104	71-121	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	17.4	69	70-136	Q
1,1,2-Trichloroethane	25.0	26.6	106	80-119	
1,1-Dichloroethane	25.0	25.4	102	77-125	
1,1-Dichloroethene	25.0	20.5	82	71-131	
1,2,3-Trichlorobenzene	25.0	24.2	97	69-129	
1,2,4-Trichlorobenzene	25.0	23.6	94	69-130	
1,2-Dibromo-3-Chloropropane	25.0	27.4	109	62-128	
1,2-Dichlorobenzene	25.0	23.7	95	80-119	
1,2-Dichloroethane	25.0	25.9	104	73-128	
1,2-Dichloropropane	25.0	27.7	111	78-122	
1,3-Dichlorobenzene	25.0	25.0	100	80-119	
1,4-Dichlorobenzene	25.0	24.5	98	79-118	
2-Butanone (MEK)	100	118	118	56-143	
2-Hexanone	100	117	117	57-139	
4-Methyl-2-pentanone (MIBK)	100	121	121	67-130	
Acetone	100	114	114	39-160	
Benzene	25.0	25.4	102	79-120	
Bromochloromethane	25.0	24.5	98	78-123	
Bromodichloromethane	25.0	26.3	105	79-125	
Bromoform	25.0	25.3	101	66-130	
Bromomethane	25.0	20.9	84	53-141	
Carbon disulfide	25.0	18.4	74	64-133	
Carbon tetrachloride	25.0	24.2	97	72-136	
Chlorobenzene	25.0	24.5	98	82-118	
Chloroethane	25.0	21.6	86	60-138	
Chloroform	25.0	25.2	101	79-124	
Chloromethane	25.0	21.0	84	50-139	
cis-1,2-Dichloroethene	25.0	25.7	103	78-123	
cis-1,3-Dichloropropene	25.0	26.3	105	75-124	
Cyclohexane	25.0	21.5	86	71-130	
Dibromochloromethane	25.0	25.4	101	74-126	
Dichlorodifluoromethane	25.0	16.9	68	32-152	
Ethylbenzene	25.0	24.8	99	79-121	
Ethylene Dibromide	25.0	24.4	97	77-121	
Isopropylbenzene	25.0	25.3	101	72-131	
Methyl acetate	50.0	57.4	115	56-136	
Methyl tert-butyl ether	25.0	26.3	105	71-124	
Methylcyclohexane	25.0	22.7	91	72-132	
Methylene Chloride	25.0	26.0	104	74-124	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P2666.D

Lab ID: LCS 280-499912/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Styrene	25.0	25.9	104	78-123	
Tetrachloroethene	25.0	24.0	96	74-129	
Toluene	25.0	25.8	103	80-121	
trans-1,2-Dichloroethene	25.0	23.1	92	75-124	
trans-1,3-Dichloropropene	25.0	25.4	102	73-127	
Trichloroethene	25.0	24.3	97	79-123	
Trichlorofluoromethane	25.0	17.6	70	65-141	
Vinyl chloride	25.0	20.5	82	58-137	
Xylenes, Total	50.0	50.7	101	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P2669.D

Lab ID: LCSD 280-499912/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	23.9	96	1	20	74-131	
1,1,2,2-Tetrachloroethane	25.0	25.2	101	3	20	71-121	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	17.4	70	0	20	70-136	
1,1,2-Trichloroethane	25.0	26.8	107	1	20	80-119	
1,1-Dichloroethane	25.0	25.4	102	0	20	77-125	
1,1-Dichloroethene	25.0	20.1	80	2	20	71-131	
1,2,3-Trichlorobenzene	25.0	23.8	95	2	20	69-129	
1,2,4-Trichlorobenzene	25.0	23.2	93	1	20	69-130	
1,2-Dibromo-3-Chloropropane	25.0	26.2	105	4	20	62-128	
1,2-Dichlorobenzene	25.0	23.0	92	3	20	80-119	
1,2-Dichloroethane	25.0	25.6	102	1	20	73-128	
1,2-Dichloropropane	25.0	27.1	108	2	20	78-122	
1,3-Dichlorobenzene	25.0	23.8	95	5	20	80-119	
1,4-Dichlorobenzene	25.0	23.8	95	3	20	79-118	
2-Butanone (MEK)	100	118	118	0	20	56-143	
2-Hexanone	100	118	118	1	20	57-139	
4-Methyl-2-pentanone (MIBK)	100	123	123	1	20	67-130	
Acetone	100	113	113	1	20	39-160	
Benzene	25.0	25.1	100	1	20	79-120	
Bromochloromethane	25.0	24.5	98	0	20	78-123	
Bromodichloromethane	25.0	26.3	105	0	20	79-125	
Bromoform	25.0	24.7	99	2	20	66-130	
Bromomethane	25.0	19.6	78	7	20	53-141	
Carbon disulfide	25.0	18.2	73	1	20	64-133	
Carbon tetrachloride	25.0	23.4	94	3	20	72-136	
Chlorobenzene	25.0	24.1	96	2	20	82-118	
Chloroethane	25.0	24.2	97	11	20	60-138	
Chloroform	25.0	24.9	100	1	20	79-124	
Chloromethane	25.0	21.9	88	4	20	50-139	
cis-1,2-Dichloroethene	25.0	25.2	101	2	20	78-123	
cis-1,3-Dichloropropene	25.0	25.1	100	5	20	75-124	
Cyclohexane	25.0	21.4	86	0	20	71-130	
Dibromochloromethane	25.0	25.0	100	1	20	74-126	
Dichlorodifluoromethane	25.0	20.0	80	17	20	32-152	
Ethylbenzene	25.0	24.4	98	2	20	79-121	
Ethylene Dibromide	25.0	23.9	96	2	20	77-121	
Isopropylbenzene	25.0	24.7	99	2	20	72-131	
Methyl acetate	50.0	57.6	115	0	20	56-136	
Methyl tert-butyl ether	25.0	25.8	103	2	20	71-124	
Methylcyclohexane	25.0	22.7	91	0	20	72-132	
Methylene Chloride	25.0	25.6	103	1	20	74-124	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P2669.D

Lab ID: LCSD 280-499912/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Styrene	25.0	25.4	102	2	20	78-123	
Tetrachloroethene	25.0	23.4	94	2	20	74-129	
Toluene	25.0	25.9	103	0	20	80-121	
trans-1,2-Dichloroethene	25.0	22.8	91	1	20	75-124	
trans-1,3-Dichloropropene	25.0	25.2	101	1	20	73-127	
Trichloroethene	25.0	24.4	98	1	20	79-123	
Trichlorofluoromethane	25.0	20.9	84	17	20	65-141	
Vinyl chloride	25.0	22.7	91	10	20	58-137	
Xylenes, Total	50.0	49.4	99	3	20	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab File ID: P2668.D Lab Sample ID: MB 280-499912/10

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: VMS_P Date Analyzed: 06/24/2020 10:00

GC Column: DB-624 (60.25) ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-499912/5	P2666.D	06/24/2020 09:18
	LCSD 280-499912/6	P2669.D	06/24/2020 10:21
WC-Q3-JUNE20	280-137736-1	P2688.D	06/24/2020 17:07
TB03-061620	280-137736-2	P2689.D	06/24/2020 17:29

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab File ID: P1658A.D BFB Injection Date: 06/01/2020

Instrument ID: VMS_P BFB Injection Time: 16:26

Analysis Batch No.: 496958

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.4	
75	30.0 - 60.0 % of mass 95	50.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	64.2	
175	5.0 - 9.0 % of mass 174	5.3	(8.3) 1
176	95.0 - 101.0 % of mass 174	61.9	(96.4) 1
177	5.0 - 9.0 % of mass 176	4.1	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD005 280-496958/12	P1658.D	06/01/2020	16:26
	STD010 280-496958/13	P1659.D	06/01/2020	16:47
	STD020 280-496958/14	P1660.D	06/01/2020	17:09
	STD050 280-496958/15	P1661.D	06/01/2020	17:30
	STD10 280-496958/16	P1662.D	06/01/2020	17:51
	STD75 280-496958/18	P1664.D	06/01/2020	18:33
	STD100 280-496958/19	P1665.D	06/01/2020	18:55
	STD200 280-496958/20	P1666.D	06/01/2020	19:16
	ICIS 280-496958/17	P1669.D	06/01/2020	20:33
	ICV 280-496958/21	P1670.D	06/01/2020	20:54

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab File ID: P2663.D BFB Injection Date: 06/24/2020

Instrument ID: VMS_P BFB Injection Time: 08:05

Analysis Batch No.: 499912

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.2	
75	30.0 - 60.0 % of mass 95	48.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	68.2	
175	5.0 - 9.0 % of mass 174	5.5	(8.0) 1
176	95.0 - 101.0 % of mass 174	66.3	(97.2) 1
177	5.0 - 9.0 % of mass 176	4.4	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 280-499912/2	P2664.D	06/24/2020	8:35
	LCS 280-499912/5	P2666.D	06/24/2020	9:18
	MB 280-499912/10	P2668.D	06/24/2020	10:00
	LCSD 280-499912/6	P2669.D	06/24/2020	10:21
WC-Q3-JUNE20	280-137736-1	P2688.D	06/24/2020	17:07
TB03-061620	280-137736-2	P2689.D	06/24/2020	17:29
	CCVC 280-499912/34	P2690.D	06/24/2020	17:50

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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Sample No.: ICIS 280-496958/17 Date Analyzed: 06/01/2020 20:33

Instrument ID: VMS_P GC Column: DB-624 (60.25) ID: 0.25(mm)

Lab File ID (Standard): P1669.D Heated Purge: (Y/N) N

Calibration ID: 44775

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2594633	5.11	589468	7.65	851368	9.87
UPPER LIMIT		5189266	5.61	1178936	8.15	1702736	10.37
LOWER LIMIT		1297317	4.61	294734	7.15	425684	9.37
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-496958/21		2590465	5.11	590999	7.65	849842	9.87
CCV 280-499912/2		2171618	5.11	516455	7.65	759799	9.87
LCS 280-499912/5		2131847	5.11	505113	7.64	734405	9.87
MB 280-499912/10		2162722	5.11	515948	7.64	743412	9.87
LCSD 280-499912/6		2161385	5.11	517285	7.64	761531	9.87
280-137736-1	WC-Q3-JUNE20	2101258	5.11	505130	7.64	741299	9.87
280-137736-2	TB03-061620	2121329	5.11	511747	7.64	739496	9.87
CCVC 280-499912/34		2165377	5.11	521900	7.64	773212	9.87

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: WC-Q3-JUNE20 Lab Sample ID: 280-137736-1

Matrix: Water Lab File ID: P2688.D

Analysis Method: 8260B Date Collected: 06/16/2020 17:30

Sample wt/vol: 5(mL) Date Analyzed: 06/24/2020 17:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 499912 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.40	U	1.0	0.40	0.16
79-34-5	1,1,2,2-Tetrachloroethane	0.80	U	1.0	0.80	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14	Q	3.0	0.40	0.18
79-00-5	1,1,2-Trichloroethane	0.80	U	1.0	0.80	0.27
75-34-3	1,1-Dichloroethane	0.80	U	1.0	0.80	0.22
75-35-4	1,1-Dichloroethene	0.80	U	1.0	0.80	0.23
87-61-6	1,2,3-Trichlorobenzene	0.80	U	1.0	0.80	0.21
120-82-1	1,2,4-Trichlorobenzene	0.80	U	1.0	0.80	0.21
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	5.0	1.6	0.47
95-50-1	1,2-Dichlorobenzene	0.40	U	1.0	0.40	0.15
107-06-2	1,2-Dichloroethane	0.40	U	1.0	0.40	0.13
78-87-5	1,2-Dichloropropane	0.40	U	1.0	0.40	0.18
541-73-1	1,3-Dichlorobenzene	0.40	U	1.0	0.40	0.13
106-46-7	1,4-Dichlorobenzene	0.40	U	1.0	0.40	0.16
78-93-3	2-Butanone (MEK)	4.0	U	6.0	4.0	2.0
591-78-6	2-Hexanone	4.0	U	5.0	4.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	3.2	0.98
67-64-1	Acetone	13		10	6.4	1.9
71-43-2	Benzene	0.40	U	1.0	0.40	0.16
74-97-5	Bromochloromethane	0.20	U	1.0	0.20	0.10
75-27-4	Bromodichloromethane	0.40	U	1.0	0.40	0.17
75-25-2	Bromoform	1.0	U	1.0	1.0	0.46
74-83-9	Bromomethane	0.80	U Q	2.0	0.80	0.21
75-15-0	Carbon disulfide	0.80	U	2.0	0.80	0.17
56-23-5	Carbon tetrachloride	0.40	U	2.0	0.40	0.19
108-90-7	Chlorobenzene	0.40	U	1.0	0.40	0.17
75-00-3	Chloroethane	1.6	U	2.0	1.6	0.41
67-66-3	Chloroform	0.40	U	1.0	0.40	0.16
74-87-3	Chloromethane	0.80	U	2.0	0.80	0.30
156-59-2	cis-1,2-Dichloroethene	0.40	U	1.0	0.40	0.15
10061-01-5	cis-1,3-Dichloropropene	0.40	U	1.0	0.40	0.16
110-82-7	Cyclohexane	0.80	U	2.0	0.80	0.28
124-48-1	Dibromochloromethane	0.40	U	1.0	0.40	0.17
75-71-8	Dichlorodifluoromethane	0.80	U	2.0	0.80	0.31
100-41-4	Ethylbenzene	0.40	U	1.0	0.40	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: WC-Q3-JUNE20 Lab Sample ID: 280-137736-1

Matrix: Water Lab File ID: P2688.D

Analysis Method: 8260B Date Collected: 06/16/2020 17:30

Sample wt/vol: 5(mL) Date Analyzed: 06/24/2020 17:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 499912 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-93-4	Ethylene Dibromide	0.40	U	1.0	0.40	0.18
98-82-8	Isopropylbenzene	0.40	U	1.0	0.40	0.19
79-20-9	Methyl acetate	4.0	U	5.0	4.0	1.6
1634-04-4	Methyl tert-butyl ether	0.80	U	5.0	0.80	0.25
108-87-2	Methylcyclohexane	0.40	U	2.0	0.40	0.10
75-09-2	Methylene Chloride	2.0	U	5.0	2.0	0.94
100-42-5	Styrene	0.80	U	1.0	0.80	0.36
127-18-4	Tetrachloroethene	0.40	U	1.0	0.40	0.20
108-88-3	Toluene	0.40	U	1.0	0.40	0.17
156-60-5	trans-1,2-Dichloroethene	0.40	U	1.0	0.40	0.15
10061-02-6	trans-1,3-Dichloropropene	0.40	U	1.0	0.40	0.19
79-01-6	Trichloroethene	0.40	U	1.0	0.40	0.16
75-69-4	Trichlorofluoromethane	0.80	U	2.0	0.80	0.29
75-01-4	Vinyl chloride	0.20	U	1.5	0.20	0.10
1330-20-7	Xylenes, Total	0.80	U	1.0	0.80	0.19

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		81-118
460-00-4	4-Bromofluorobenzene (Surr)	99		85-114
1868-53-7	Dibromofluoromethane (Surr)	100		80-119
2037-26-5	Toluene-d8 (Surr)	98		89-112

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2688.D
Lims ID: 280-137736-C-1
Client ID: WC-Q3-JUNE20
Sample Type: Client
Inject. Date: 24-Jun-2020 17:07:30 ALS Bottle#: 25 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-137736-c-1 pH
Misc. Info.: 280-0092699-032
Operator ID: SEIFERTJ Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 25-Jun-2020 09:59:02 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1058

First Level Reviewer: seifertj Date: 25-Jun-2020 09:57:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.110	5.113	-0.003	98	2101258	50.0	
* 2 Chlorobenzene-d5	119	7.643	7.646	-0.003	88	505130	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.869	9.873	-0.004	97	741299	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.604	4.606	-0.002	92	507968	50.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.867	4.870	-0.003	96	586216	49.2	
$ 6 Toluene-d8 (Surr)	98	6.366	6.369	-0.003	93	2175601	48.9	
$ 7 4-Bromofluorobenzene (Surr)	95	8.740	8.743	-0.003	83	807301	49.3	
10 Dichlorodifluoromethane	85		1.662				ND	
11 Chloromethane	50		1.842				ND	
12 Vinyl chloride	62		1.937				ND	
14 Bromomethane	94		2.232				ND	
15 Chloroethane	64		2.327				ND	
17 Trichlorofluoromethane	101		2.528				ND	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.947	2.939	0.008	96	70939	13.9	
22 1,1-Dichloroethene	96		2.939				ND	
24 Acetone	43	2.957	2.960	-0.003	100	40629	13.5	
27 Carbon disulfide	76		3.129				ND	
29 Methyl acetate	43		3.192				ND	
31 Methylene Chloride	84		3.308				ND	
34 Methyl tert-butyl ether	73		3.498				ND	
35 trans-1,2-Dichloroethene	96		3.509				ND	
39 1,1-Dichloroethane	63		3.836				ND	
44 2-Butanone (MEK)	43		4.216				ND	
47 cis-1,2-Dichloroethene	96		4.248				ND	
53 Chlorobromomethane	128		4.427				ND	
54 Chloroform	83		4.480				ND	
55 1,1,1-Trichloroethane	97		4.628				ND	
56 Cyclohexane	56		4.691				ND	
59 Carbon tetrachloride	117		4.744				ND	
60 Benzene	78		4.891				ND	
61 1,2-Dichloroethane	62		4.923				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
67 Trichloroethene	95		5.387				ND	
69 Methylcyclohexane	55		5.577				ND	
70 1,2-Dichloropropane	63		5.588				ND	
74 Dichlorobromomethane	83		5.788				ND	
77 cis-1,3-Dichloropropene	75		6.137				ND	
78 4-Methyl-2-pentanone (MIBK)	43		6.242				ND	
79 Toluene	91		6.432				ND	
80 trans-1,3-Dichloropropene	75		6.601				ND	
82 1,1,2-Trichloroethane	97		6.780				ND	
83 Tetrachloroethene	164		6.875				ND	
85 2-Hexanone	43		6.939				ND	
86 Chlorodibromomethane	129		7.118				ND	
88 Ethylene Dibromide	107		7.245				ND	
90 Chlorobenzene	112		7.677				ND	
92 Ethylbenzene	106		7.751				ND	
93 m-Xylene & p-Xylene	106		7.867				ND	
94 o-Xylene	106		8.226				ND	
95 Styrene	104		8.247				ND	
96 Bromoform	173		8.427				ND	
97 Isopropylbenzene	105		8.574				ND	
100 1,1,2,2-Tetrachloroethane	83		8.859				ND	
111 1,3-Dichlorobenzene	146		9.798				ND	
113 1,4-Dichlorobenzene	146		9.893				ND	
116 1,2-Dichlorobenzene	146		10.252				ND	
117 1,2-Dibromo-3-Chloropropane	157		11.033				ND	
119 1,2,4-Trichlorobenzene	180		11.856				ND	
122 1,2,3-Trichlorobenzene	180		12.352				ND	
S 142 Xylenes, Total	106		0.000				ND	

Reagents:

mv-IS_SS_00006 Amount Added: 5.00 Units: uL Run Reagent

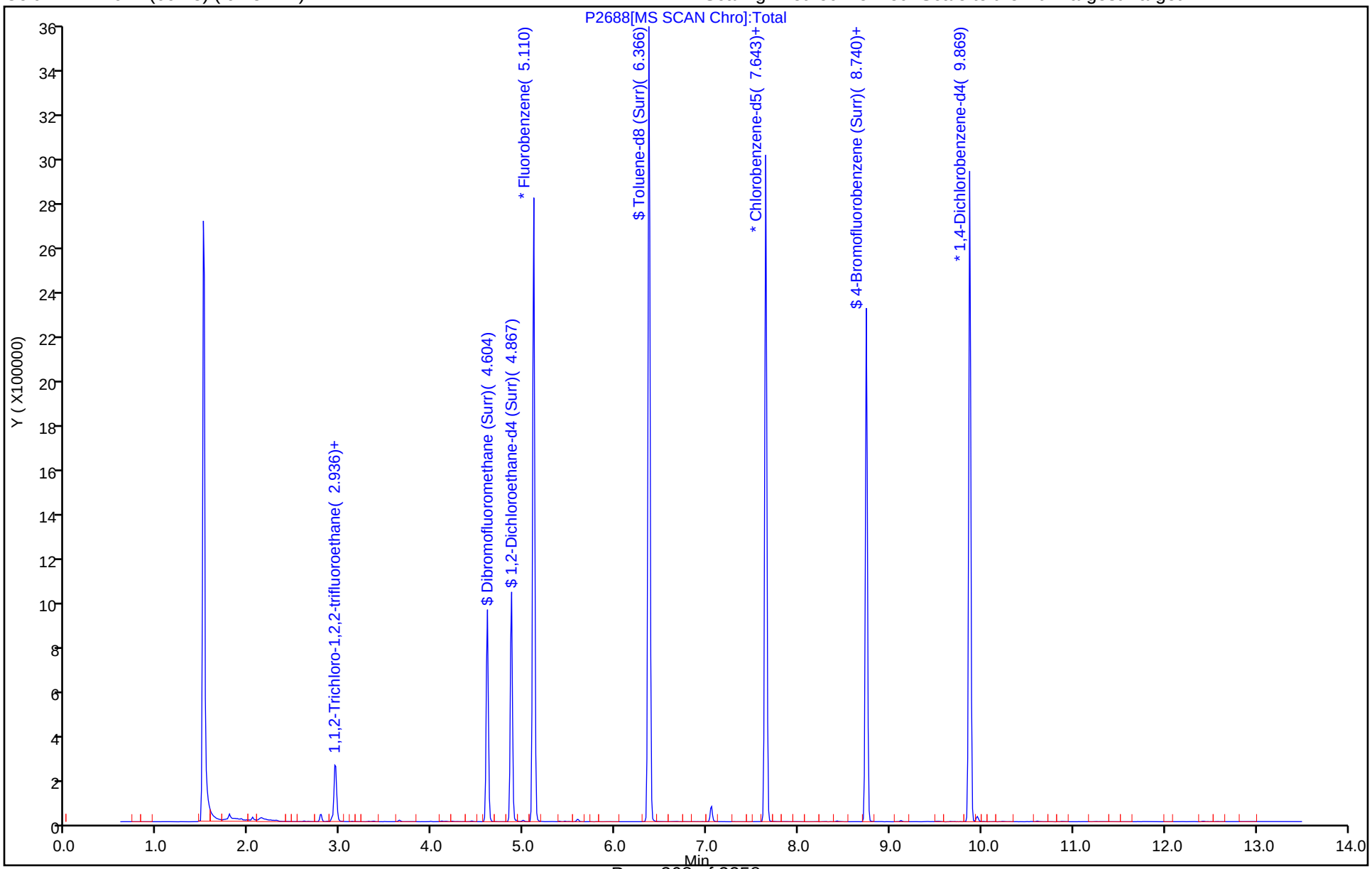
Report Date: 25-Jun-2020 10:00:48 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2688.D

Injection Date:	24-Jun-2020 17:07:30	Instrument ID:	VMS_P	Operator ID:	SEIFERTJ
Lims ID:	280-137736-C-1	Lab Sample ID:	280-137736-1	Worklist Smp#:	32
Client ID:	WC-Q3-JUNE20				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2688.D
Lims ID: 280-137736-C-1
Client ID: WC-Q3-JUNE20
Sample Type: Client
Inject. Date: 24-Jun-2020 17:07:30 ALS Bottle#: 25 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-137736-c-1 pH
Misc. Info.: 280-0092699-032
Operator ID: SEIFERTJ Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 25-Jun-2020 09:59:02 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1058

First Level Reviewer: seifertj Date: 25-Jun-2020 09:57:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	50.2	100.39
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	49.2	98.46
$ 6 Toluene-d8 (Surr)	50.0	48.9	97.90
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.3	98.68

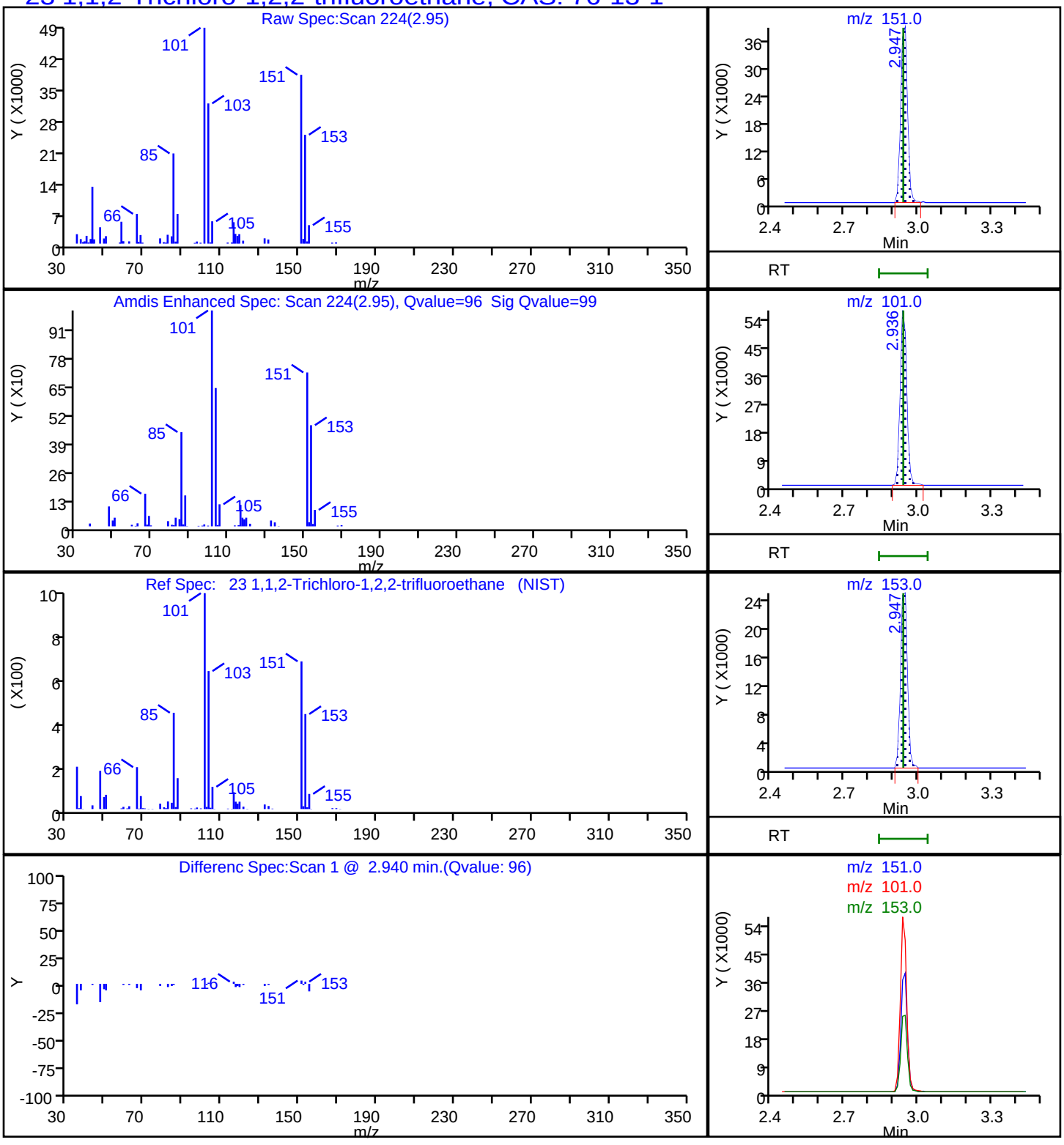
Report Date: 25-Jun-2020 10:00:48 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2688.D

Injection Date:	24-Jun-2020 17:07:30	Instrument ID:	VMS_P		
Lims ID:	280-137736-C-1	Lab Sample ID:	280-137736-1		
Client ID:	WC-Q3-JUNE20				
Operator ID:	SEIFERTJ	ALS Bottle#:	25	Worklist Smp#:	32
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

23 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



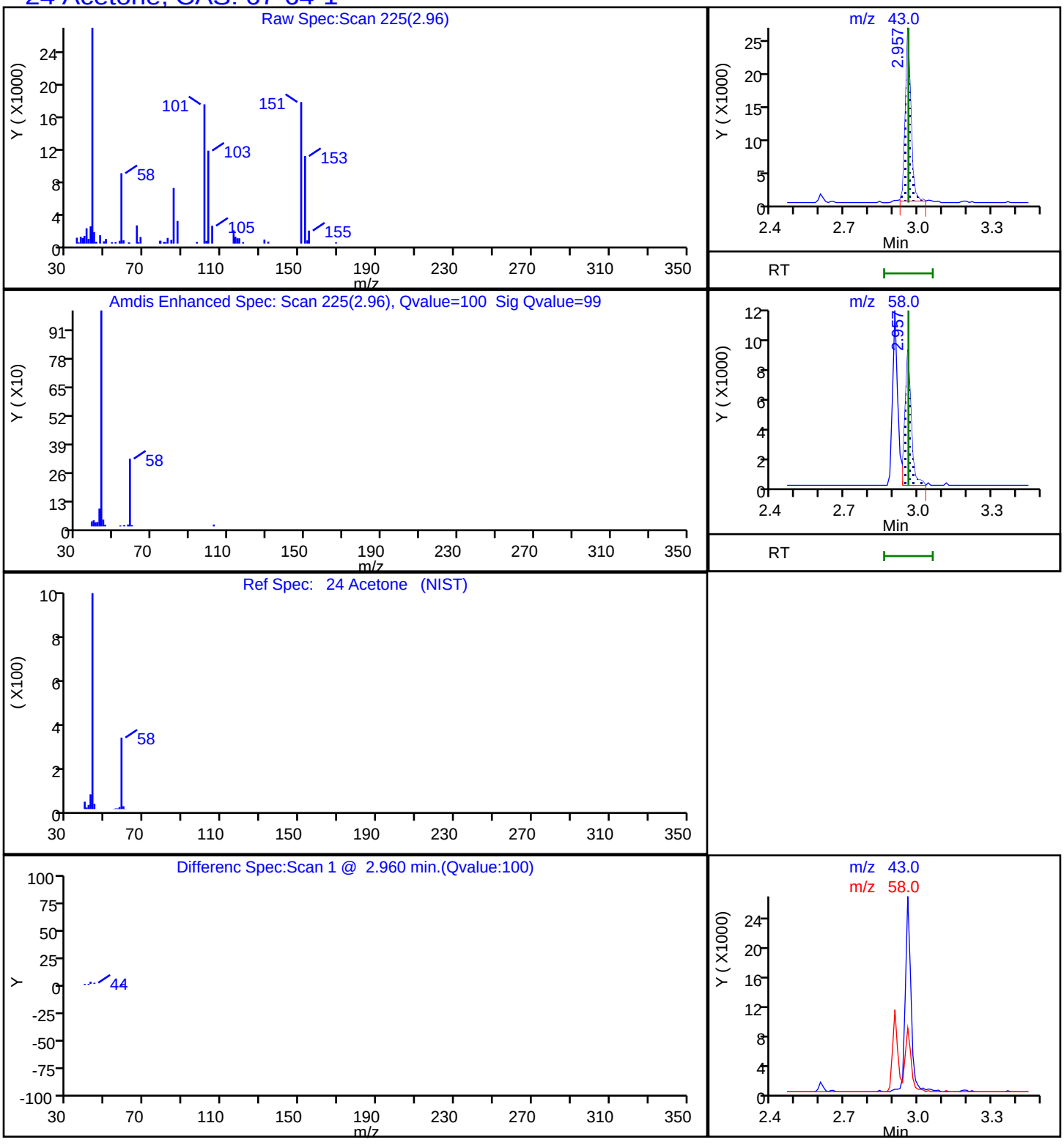
Report Date: 25-Jun-2020 10:00:48 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2688.D

Injection Date:	24-Jun-2020 17:07:30	Instrument ID:	VMS_P
Lims ID:	280-137736-C-1	Lab Sample ID:	280-137736-1
Client ID:	WC-Q3-JUNE20		
Operator ID:	SEIFERTJ	ALS Bottle#:	25 Worklist Smp#: 32
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN

24 Acetone, CAS: 67-64-1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: TB03-061620 Lab Sample ID: 280-137736-2

Matrix: Water Lab File ID: P2689.D

Analysis Method: 8260B Date Collected: 06/16/2020 17:00

Sample wt/vol: 5(mL) Date Analyzed: 06/24/2020 17:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 499912 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.40	U	1.0	0.40	0.16
79-34-5	1,1,2,2-Tetrachloroethane	0.80	U	1.0	0.80	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.40	U Q	3.0	0.40	0.18
79-00-5	1,1,2-Trichloroethane	0.80	U	1.0	0.80	0.27
75-34-3	1,1-Dichloroethane	0.80	U	1.0	0.80	0.22
75-35-4	1,1-Dichloroethene	0.80	U	1.0	0.80	0.23
87-61-6	1,2,3-Trichlorobenzene	0.80	U	1.0	0.80	0.21
120-82-1	1,2,4-Trichlorobenzene	0.80	U	1.0	0.80	0.21
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	5.0	1.6	0.47
95-50-1	1,2-Dichlorobenzene	0.40	U	1.0	0.40	0.15
107-06-2	1,2-Dichloroethane	0.40	U	1.0	0.40	0.13
78-87-5	1,2-Dichloropropane	0.40	U	1.0	0.40	0.18
541-73-1	1,3-Dichlorobenzene	0.40	U	1.0	0.40	0.13
106-46-7	1,4-Dichlorobenzene	0.40	U	1.0	0.40	0.16
78-93-3	2-Butanone (MEK)	4.0	U	6.0	4.0	2.0
591-78-6	2-Hexanone	4.0	U	5.0	4.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	3.2	0.98
67-64-1	Acetone	6.4	U	10	6.4	1.9
71-43-2	Benzene	0.40	U	1.0	0.40	0.16
74-97-5	Bromochloromethane	0.20	U	1.0	0.20	0.10
75-27-4	Bromodichloromethane	1.8		1.0	0.40	0.17
75-25-2	Bromoform	0.97	J	1.0	1.0	0.46
74-83-9	Bromomethane	0.80	U Q	2.0	0.80	0.21
75-15-0	Carbon disulfide	0.80	U	2.0	0.80	0.17
56-23-5	Carbon tetrachloride	0.40	U	2.0	0.40	0.19
108-90-7	Chlorobenzene	0.40	U	1.0	0.40	0.17
75-00-3	Chloroethane	1.6	U	2.0	1.6	0.41
67-66-3	Chloroform	0.59	J	1.0	0.40	0.16
74-87-3	Chloromethane	0.80	U	2.0	0.80	0.30
156-59-2	cis-1,2-Dichloroethene	0.40	U	1.0	0.40	0.15
10061-01-5	cis-1,3-Dichloropropene	0.40	U	1.0	0.40	0.16
110-82-7	Cyclohexane	0.80	U	2.0	0.80	0.28
124-48-1	Dibromochloromethane	2.5		1.0	0.40	0.17
75-71-8	Dichlorodifluoromethane	0.80	U	2.0	0.80	0.31
100-41-4	Ethylbenzene	0.40	U	1.0	0.40	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: TB03-061620 Lab Sample ID: 280-137736-2

Matrix: Water Lab File ID: P2689.D

Analysis Method: 8260B Date Collected: 06/16/2020 17:00

Sample wt/vol: 5(mL) Date Analyzed: 06/24/2020 17:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 499912 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-93-4	Ethylene Dibromide	0.40	U	1.0	0.40	0.18
98-82-8	Isopropylbenzene	0.40	U	1.0	0.40	0.19
79-20-9	Methyl acetate	4.0	U	5.0	4.0	1.6
1634-04-4	Methyl tert-butyl ether	0.80	U	5.0	0.80	0.25
108-87-2	Methylcyclohexane	0.40	U	2.0	0.40	0.10
75-09-2	Methylene Chloride	2.0	U	5.0	2.0	0.94
100-42-5	Styrene	0.80	U	1.0	0.80	0.36
127-18-4	Tetrachloroethene	0.40	U	1.0	0.40	0.20
108-88-3	Toluene	0.40	U	1.0	0.40	0.17
156-60-5	trans-1,2-Dichloroethene	0.40	U	1.0	0.40	0.15
10061-02-6	trans-1,3-Dichloropropene	0.40	U	1.0	0.40	0.19
79-01-6	Trichloroethene	0.40	U	1.0	0.40	0.16
75-69-4	Trichlorofluoromethane	0.80	U	2.0	0.80	0.29
75-01-4	Vinyl chloride	0.20	U	1.5	0.20	0.10
1330-20-7	Xylenes, Total	0.80	U	1.0	0.80	0.19

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		81-118
460-00-4	4-Bromofluorobenzene (Surr)	99		85-114
1868-53-7	Dibromofluoromethane (Surr)	101		80-119
2037-26-5	Toluene-d8 (Surr)	97		89-112

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2689.D
Lims ID: 280-137736-B-2
Client ID: TB03-061620
Sample Type: Client
Inject. Date: 24-Jun-2020 17:29:30 ALS Bottle#: 26 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-137736-b-2 pH
Misc. Info.: 280-0092699-033
Operator ID: SEIFERTJ Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 25-Jun-2020 09:59:02 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1058

First Level Reviewer: seifertj Date: 25-Jun-2020 09:57:44

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.110	5.113	-0.003	98	2121329	50.0	
*	2 Chlorobenzene-d5	119	7.643	7.646	-0.003	87	511747	50.0	
*	3 1,4-Dichlorobenzene-d4	152	9.870	9.873	-0.003	97	739496	50.0	
$	4 Dibromofluoromethane (Surr)	111	4.604	4.606	-0.002	92	517966	50.7	
$	5 1,2-Dichloroethane-d4 (Surr)	65	4.868	4.870	-0.002	96	589075	49.0	
$	6 Toluene-d8 (Surr)	98	6.366	6.369	-0.003	93	2176798	48.3	
$	7 4-Bromofluorobenzene (Surr)	95	8.741	8.743	-0.002	83	810852	49.7	
	10 Dichlorodifluoromethane	85		1.662				ND	
	11 Chloromethane	50		1.842				ND	
	12 Vinyl chloride	62		1.937				ND	
	14 Bromomethane	94		2.232				ND	
	15 Chloroethane	64		2.327				ND	
	17 Trichlorofluoromethane	101		2.528				ND	
	23 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.939				ND	
	22 1,1-Dichloroethene	96		2.939				ND	
	24 Acetone	43		2.960				ND	
	27 Carbon disulfide	76		3.129				ND	
	29 Methyl acetate	43		3.192				ND	
	31 Methylene Chloride	84		3.308				ND	
	34 Methyl tert-butyl ether	73		3.498				ND	
	35 trans-1,2-Dichloroethene	96		3.509				ND	
	39 1,1-Dichloroethane	63		3.836				ND	
	44 2-Butanone (MEK)	43		4.216				ND	
	47 cis-1,2-Dichloroethene	96		4.248				ND	
	53 Chlorobromomethane	128		4.427				ND	
	54 Chloroform	83	4.477	4.480	-0.003	94	8420	0.5911	
	55 1,1,1-Trichloroethane	97		4.628				ND	
	56 Cyclohexane	56		4.691				ND	
	59 Carbon tetrachloride	117		4.744				ND	
	60 Benzene	78		4.891				ND	
	61 1,2-Dichloroethane	62		4.923				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
67 Trichloroethene	95		5.387				ND	
69 Methylcyclohexane	55		5.577				ND	
70 1,2-Dichloropropane	63		5.588				ND	
74 Dichlorobromomethane	83	5.786	5.788	-0.002	98	18842	1.80	
77 cis-1,3-Dichloropropene	75		6.137				ND	
78 4-Methyl-2-pentanone (MIBK)	43		6.242				ND	
79 Toluene	91		6.432				ND	
80 trans-1,3-Dichloropropene	75		6.601				ND	
82 1,1,2-Trichloroethane	97		6.780				ND	
83 Tetrachloroethene	164		6.875				ND	
85 2-Hexanone	43		6.939				ND	
86 Chlorodibromomethane	129	7.115	7.118	-0.003	90	19053	2.47	
88 Ethylene Dibromide	107		7.245				ND	
90 Chlorobenzene	112		7.677				ND	
92 Ethylbenzene	106		7.751				ND	
93 m-Xylene & p-Xylene	106		7.867				ND	
94 o-Xylene	106		8.226				ND	
95 Styrene	104		8.247				ND	
96 Bromoform	173	8.424	8.427	-0.003	90	4439	0.9748	
97 Isopropylbenzene	105		8.574				ND	
100 1,1,2,2-Tetrachloroethane	83		8.859				ND	
111 1,3-Dichlorobenzene	146		9.798				ND	
113 1,4-Dichlorobenzene	146		9.893				ND	
116 1,2-Dichlorobenzene	146		10.252				ND	
117 1,2-Dibromo-3-Chloropropane	157		11.033				ND	
119 1,2,4-Trichlorobenzene	180		11.856				ND	
122 1,2,3-Trichlorobenzene	180		12.352				ND	
S 142 Xylenes, Total	106		0.000				ND	

Reagents:

mv-IS_SS_00006 Amount Added: 5.00 Units: uL Run Reagent

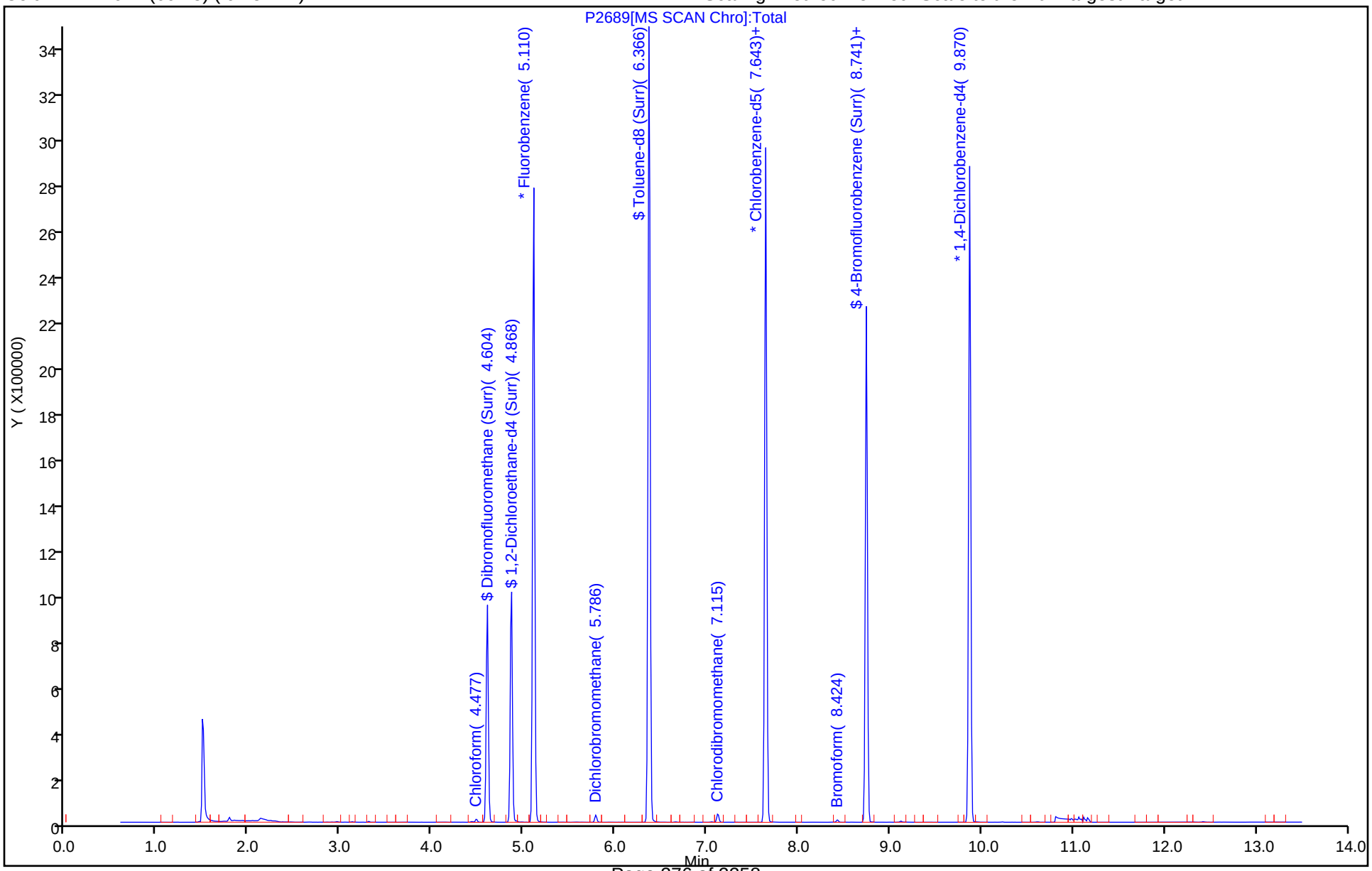
Report Date: 25-Jun-2020 10:00:49 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2689.D

Injection Date:	24-Jun-2020 17:29:30	Instrument ID:	VMS_P	Operator ID:	SEIFERTJ
Lims ID:	280-137736-B-2	Lab Sample ID:	280-137736-2	Worklist Smp#:	33
Client ID:	TB03-061620				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2689.D
Lims ID: 280-137736-B-2
Client ID: TB03-061620
Sample Type: Client
Inject. Date: 24-Jun-2020 17:29:30 ALS Bottle#: 26 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-137736-b-2 pH
Misc. Info.: 280-0092699-033
Operator ID: SEIFERTJ Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 25-Jun-2020 09:59:02 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1058

First Level Reviewer: seifertj Date: 25-Jun-2020 09:57:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	50.7	101.40
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	49.0	98.01
$ 6 Toluene-d8 (Surr)	50.0	48.3	96.68
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.7	99.36

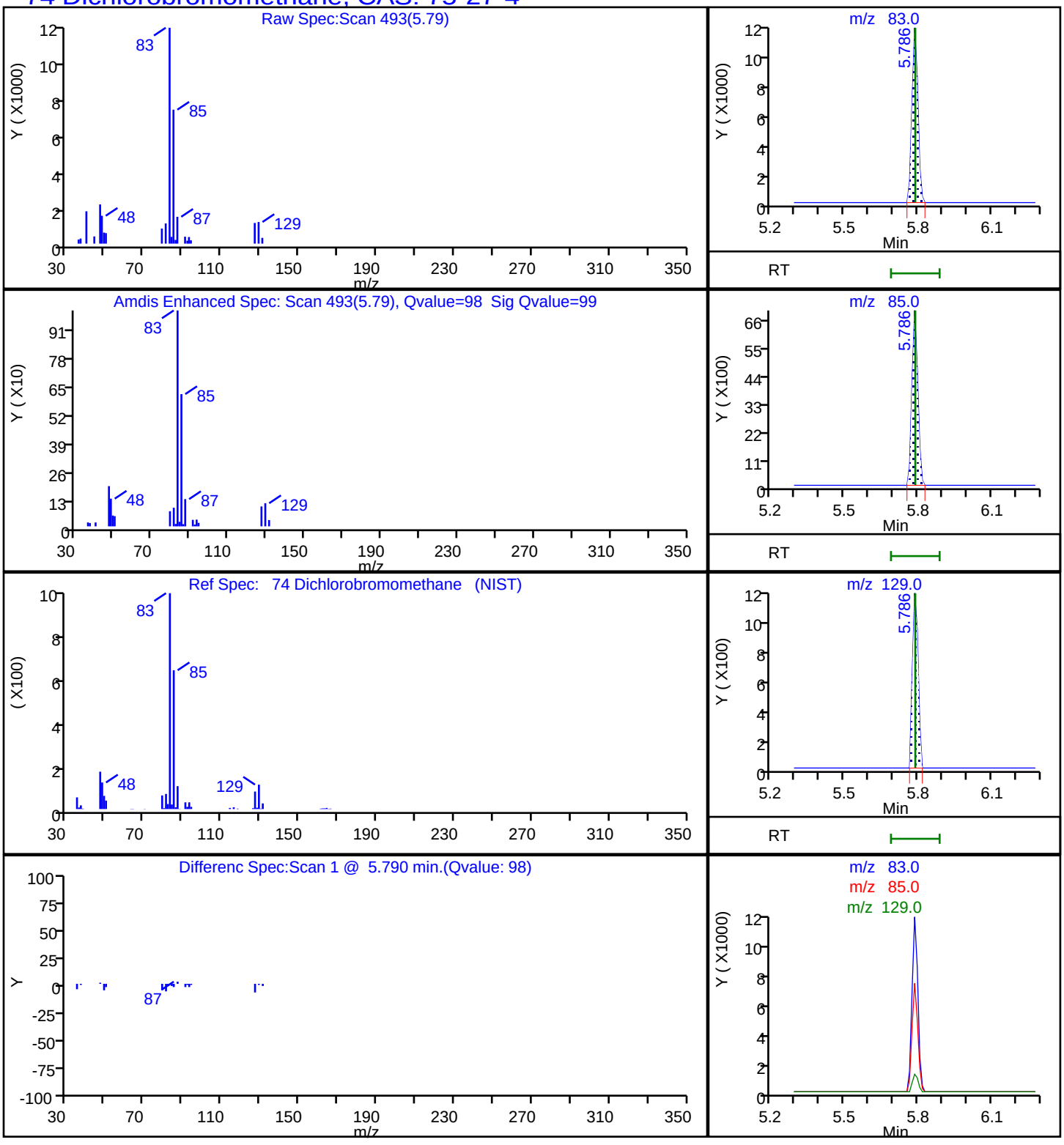
Report Date: 25-Jun-2020 10:00:49 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2689.D

Injection Date:	24-Jun-2020 17:29:30	Instrument ID:	VMS_P		
Lims ID:	280-137736-B-2	Lab Sample ID:	280-137736-2		
Client ID:	TB03-061620				
Operator ID:	SEIFERTJ	ALS Bottle#:	26	Worklist Smp#:	33
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

74 Dichlorobromomethane, CAS: 75-27-4



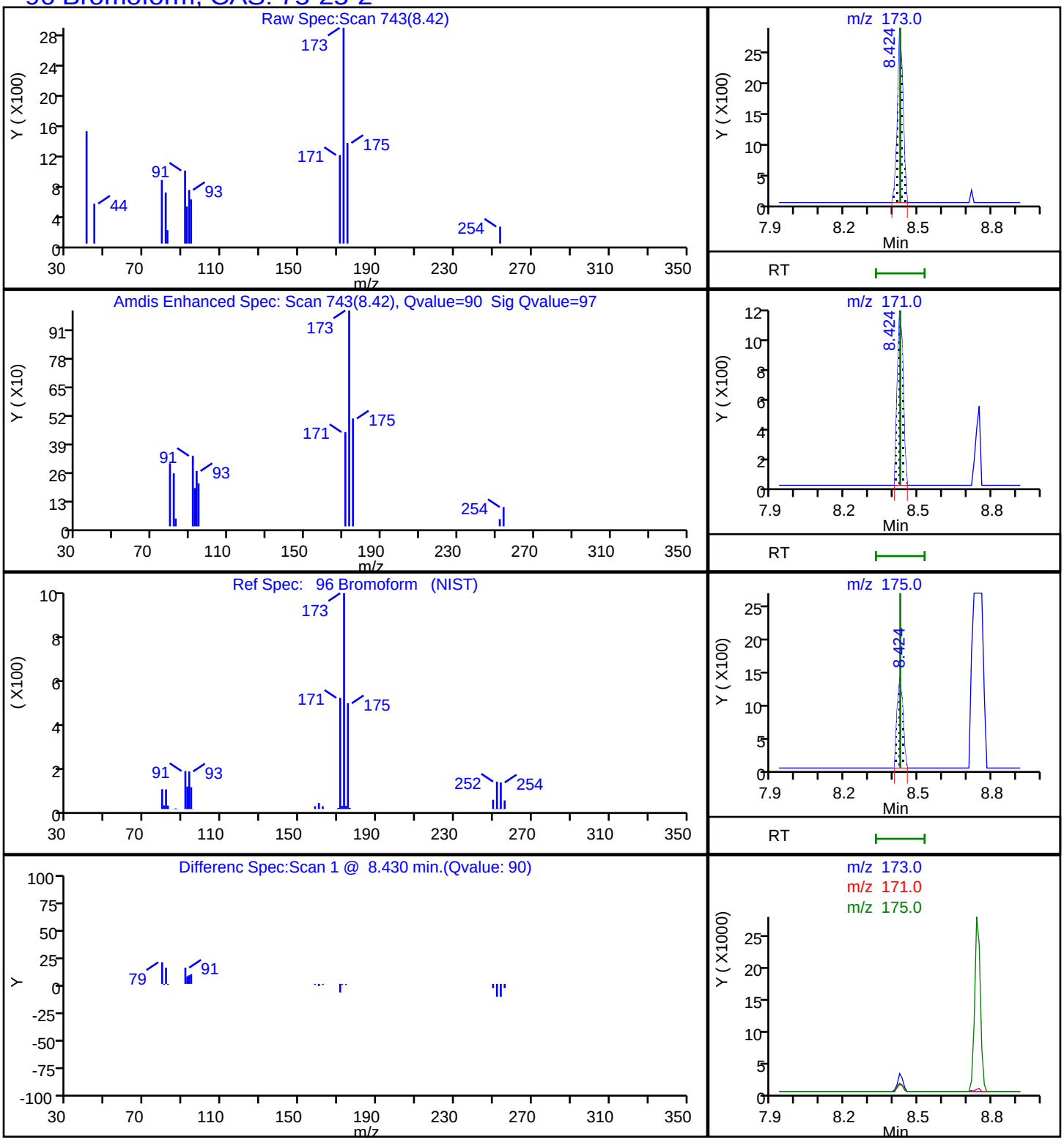
Report Date: 25-Jun-2020 10:00:49 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2689.D

Injection Date:	24-Jun-2020 17:29:30	Instrument ID:	VMS_P
Lims ID:	280-137736-B-2	Lab Sample ID:	280-137736-2
Client ID:	TB03-061620		
Operator ID:	SEIFERTJ	ALS Bottle#:	26 Worklist Smp#: 33
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN

96 Bromoform, CAS: 75-25-2



Report Date: 25-Jun-2020 10:00:49 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2689.D

Injection Date: 24-Jun-2020 17:29:30 Instrument ID: VMS_P

Lims ID: 280-137736-B-2 Lab Sample ID: 280-137736-2

Client ID: TB03-061620

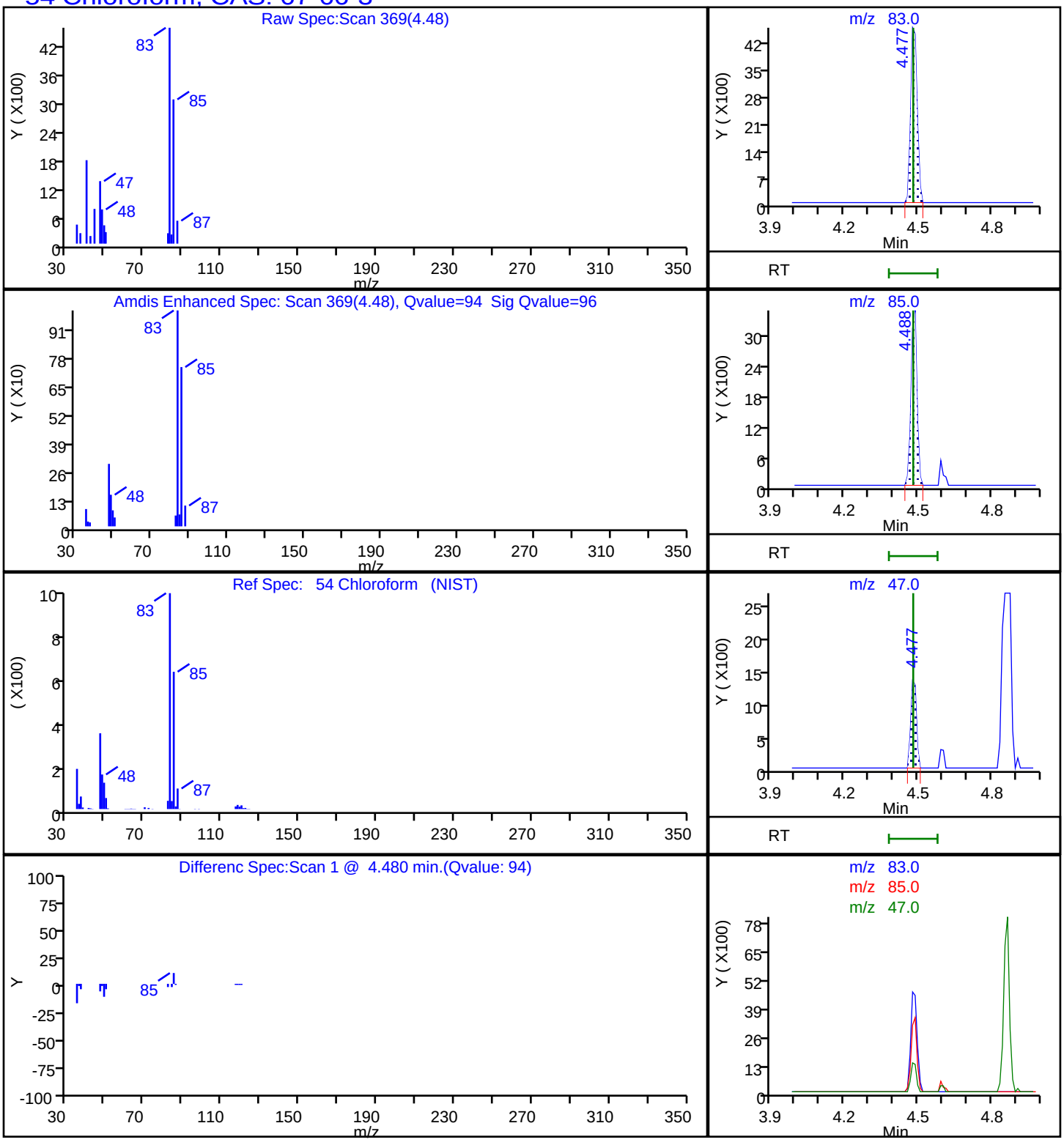
Operator ID: SEIFERTJ ALS Bottle#: 26 Worklist Smp#: 33

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

54 Chloroform, CAS: 67-66-3

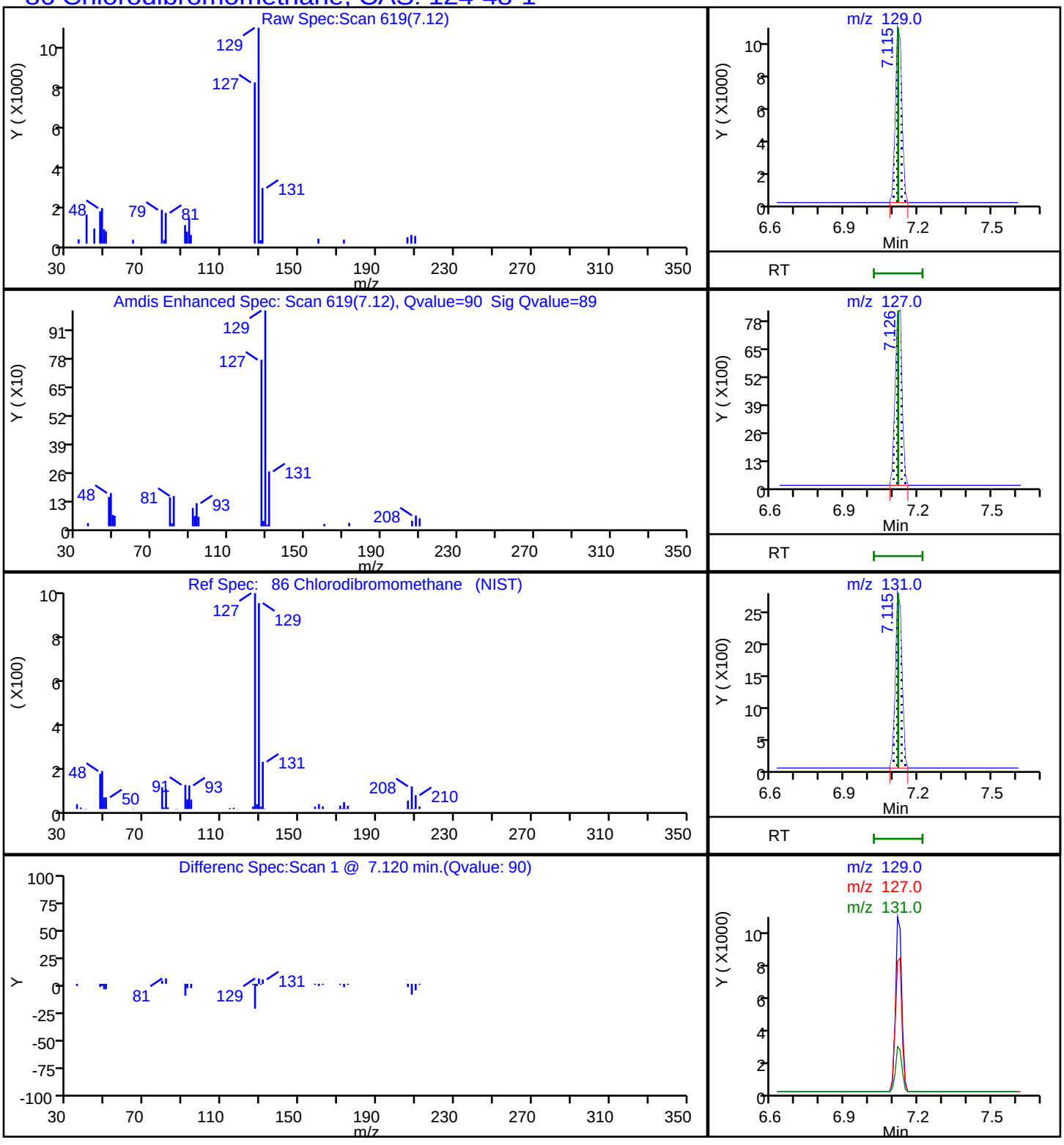


Report Date: 25-Jun-2020 10:00:49 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2689.D				
Injection Date:	24-Jun-2020 17:29:30	Instrument ID:	VMS_P		
Lims ID:	280-137736-B-2	Lab Sample ID:	280-137736-2		
Client ID:	TB03-061620				
Operator ID:	SEIFERTJ	ALS Bottle#:	26	Worklist Smp#:	33
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

86 Chlorodibromomethane, CAS: 124-48-1



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 496958

SDG No.:

Instrument ID: VMS_P GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2020 16:26 Calibration End Date: 06/01/2020 20:33 Calibration ID: 44775

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 280-496958/12	P1658.D
Level 2	STD010 280-496958/13	P1659.D
Level 3	STD020 280-496958/14	P1660.D
Level 4	STD050 280-496958/15	P1661.D
Level 5	STD10 280-496958/16	P1662.D
Level 6	ICIS 280-496958/17	P1669.D
Level 7	STD75 280-496958/18	P1664.D
Level 8	STD100 280-496958/19	P1665.D
Level 9	STD200 280-496958/20	P1666.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.1280 0.1501	0.1149 0.1496	0.1184 0.1413	0.1587 0.1427	0.1584	Ave		0.1402				11.6		15.0			
Chloromethane	0.3232 0.1998	0.2299 0.1994	0.1964 0.1852	0.2155 0.1824	0.2026	Lin2	0.0602	0.1892			0.1000				0.9930		0.9900
Vinyl chloride	0.2314 0.2184	0.2062 0.2201	0.2196 0.2055	0.2372 0.2023	0.2292	Ave		0.2189				5.6		30.0			
Bromomethane	+++++ 0.1030	0.2168 0.0763	0.1525 0.0850	0.0951 0.0778	0.0993	Lin1	0.1403	0.0808							0.9900		0.9900
Chloroethane	0.1523 0.1415	0.1337 0.1375	0.1415 0.1307	0.1471 0.1256	0.1447	Ave		0.1394				6.0		15.0			
Dichlorofluoromethane	0.3296 0.3281	0.3209 0.3327	0.3261 0.3139	0.3386 0.3130	0.3265	Ave		0.3255				2.6		15.0			
Trichlorofluoromethane	0.2742 0.2655	0.2673 0.2726	0.2651 0.2571	0.2943 0.2576	0.2782	Ave		0.2702				4.2		15.0			
Ethyl ether	0.1803 0.1669	0.1772 0.1686	0.1768 0.1674	0.1630 0.1640	0.1681	Ave		0.1703				3.7		15.0			
Acrolein	0.0464 0.0387	0.0442 0.0411	0.0442 0.0400	0.0422 0.0401	0.0417	Ave		0.0421				5.8		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1331 0.1247	0.1318 0.1206	0.1304 0.1126	0.1084 0.1136	0.1213	Ave		0.1218				7.4		15.0			
1,1-Dichloroethene	0.1645 0.1668	0.1700 0.1626	0.1758 0.1551	0.1451 0.1545	0.1629	Ave		0.1619				5.7		30.0			
Acetone	0.1008 0.0577	0.0916 0.0653	0.0854 0.0641	0.0735 0.0639	0.0682	Lin2	0.0807	0.0659							0.9910		0.9900
Iodomethane	+++++ 0.1499	0.1131 0.1719	0.0708 0.1647	0.0661 0.1537	0.0868	Lin	-0.110	0.1579							0.9960		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 496958

SDG No.:

Instrument ID: VMS_P GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2020 16:26 Calibration End Date: 06/01/2020 20:33 Calibration ID: 44775

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Carbon disulfide	0.8046 0.5572	0.5575 0.5272	0.5575 0.5112	0.4694 0.5023	0.5159	Lin2	0.1307	0.5000							0.9910		0.9900
Methyl acetate	0.1762 0.1493	0.1830 0.1684	0.1808 0.1658	0.1691 0.1676	0.1690	Ave		0.1699				5.8		15.0			
3-Chloro-1-propene	0.2966 0.2956	0.2886 0.2775	0.2992 0.2698	0.2475 0.2436	0.2799	Ave		0.2776				7.4		15.0			
Methylene Chloride	0.3943 0.1958	0.2548 0.1923	0.2351 0.1896	0.1969 0.1844	0.1984	Lin2	0.0975	0.1851							0.9950		0.9900
t-Butyl alcohol	0.0197 0.0184	0.0219 0.0224	0.0231 0.0224	0.0243 0.0232	0.0220	Ave		0.0219				8.4		15.0			
Acrylonitrile	0.0998 0.0828	0.0983 0.0906	0.0994 0.0885	0.0917 0.0865	0.0907	Ave		0.0920				6.5		15.0			
Methyl tert-butyl ether	0.5313 0.5438	0.5599 0.5554	0.5707 0.5501	0.5156 0.5436	0.5496	Ave		0.5467				2.9		15.0			
trans-1,2-Dichloroethene	0.2346 0.1914	0.1978 0.1852	0.1995 0.1799	0.1702 0.1777	0.1837	Ave		0.1911				9.9		15.0			
Hexane	1.2201 1.2204	1.2431 1.1594	1.2484 1.0737	1.0435 1.0817	1.2042	Ave		1.1661				6.8		15.0			
Vinyl acetate	0.4272 0.4424	0.4172 0.4249	0.4244 0.3910	0.3953 0.3763	0.4080	Ave		0.4119				5.1		15.0			
1,1-Dichloroethane	0.3531 0.3521	0.3670 0.3507	0.3738 0.3391	0.3257 0.3306	0.3553	Ave		0.3497			0.1000	4.5		15.0			
2-Butanone (MEK)	0.1132 0.0956	0.1174 0.1097	0.1212 0.1069	0.1179 0.1067	0.1144	Ave		0.1115				7.0		15.0			
cis-1,2-Dichloroethene	0.2455 0.2107	0.2225 0.2080	0.2256 0.2042	0.1901 0.2008	0.2057	Ave		0.2126				7.7		15.0			
2,2-Dichloropropane	0.2346 0.2600	0.2323 0.2427	0.2428 0.2372	0.2097 0.2386	0.2324	Ave		0.2367				5.6		15.0			
sec-Butyl Alcohol	+++++ 0.0156	0.0160 0.0191	0.0167 0.0191	0.0192 0.0194	0.0183	Ave		0.0179				8.8		15.0			
Bromochloromethane	0.1103 0.0951	0.0986 0.0924	0.1046 0.0900	0.0866 0.0859	0.0935	Ave		0.0952				8.5		15.0			
Tetrahydrofuran	+++++ 0.0637	0.0813 0.0734	0.0776 0.0720	0.0751 0.0733	0.0747	Ave		0.0739				6.8		15.0			
Chloroform	0.3713 0.3304	0.3491 0.3268	0.3704 0.3197	0.3106 0.3113	0.3322	Ave		0.3358				6.9		30.0			
1,1,1-Trichloroethane	0.2799 0.2695	0.2716 0.2667	0.2885 0.2571	0.2408 0.2562	0.2622	Ave		0.2658				5.3		15.0			
Cyclohexane	0.3614 0.3471	0.3496 0.3429	0.3564 0.3206	0.3006 0.3220	0.3469	Ave		0.3386				5.9		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 496958

SDG No.:

Instrument ID: VMS_P GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2020 16:26 Calibration End Date: 06/01/2020 20:33 Calibration ID: 44775

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,1-Dichloropropene	0.3014 0.2783	0.2937 0.2786	0.2930 0.2674	0.2522 0.2646	0.2773	Ave		0.2785				5.6		15.0			
Carbon tetrachloride	0.2212 0.2289	0.2101 0.2239	0.2296 0.2168	0.1898 0.2187	0.2191	Ave		0.2176				5.5		15.0			
Isobutyl alcohol	0.0068 0.0067	0.0075 0.0081	0.0078 0.0080	0.0086 0.0081	0.0080	Ave		0.0077				8.2		15.0			
Benzene	0.8807 0.8178	0.8781 0.8113	0.8863 0.7917	0.7662 0.7598	0.8136	Ave		0.8229				5.9		15.0			
1,2-Dichloroethane	0.4331 0.2570	0.3464 0.2591	0.3180 0.2537	0.2691 0.2459	0.2705	Lin2	0.0904	0.2561							0.9990		0.9900
Trichloroethene	0.2440 0.2033	0.2019 0.1960	0.2175 0.1916	0.1770 0.1915	0.1954	Ave		0.2020				9.5		15.0			
2-Pentanone	0.1509 0.1490	0.1666 0.1703	0.1741 0.1669	0.1754 0.1662	0.1709	Ave		0.1656				5.7		15.0			
Methylcyclohexane	0.2890 0.2592	0.2645 0.2551	0.2720 0.2394	0.2292 0.2426	0.2580	Ave		0.2566				7.0		15.0			
1,2-Dichloropropane	0.2162 0.2134	0.2200 0.2148	0.2192 0.2098	0.1974 0.2099	0.2128	Ave		0.2126				3.2		30.0			
1,4-Dioxane	0.0030 0.0026	0.0031 0.0030	0.0029 0.0029	0.0032 0.0030	0.0030	Ave		0.0030				5.6		15.0			
Dibromomethane	+++++ 0.1195	0.1306 0.1219	0.1256 0.1200	0.1175 0.1187	0.1217	Ave		0.1219				3.5		15.0			
Bromodichloromethane	0.2692 0.2494	0.2373 0.2498	0.2577 0.2450	0.2275 0.2439	0.2403	Ave		0.2467				4.9		15.0			
2-Chloroethyl vinyl ether	0.1569 0.1449	0.1343 0.1583	0.1369 0.1500	0.1445 0.1530	0.1449	Ave		0.1471				5.6		15.0			
cis-1,3-Dichloropropene	1.3517 1.4097	1.2827 1.4222	1.3118 1.3849	1.1948 1.3836	1.3273	Ave		1.3410				5.3		15.0			
4-Methyl-2-pentanone (MIBK)	0.1902 0.1945	0.2117 0.2207	0.2257 0.2146	0.2242 0.2085	0.2238	Ave		0.2126				6.1		15.0			
Toluene	0.9569 0.8515	0.9193 0.8435	0.9477 0.8155	0.7939 0.7860	0.8538	Ave		0.8631				7.4		30.0			
trans-1,3-Dichloropropene	0.3010 0.2849	0.2412 0.2870	0.2559 0.2884	0.2309 0.2899	0.2520	Ave		0.2701				9.3		15.0			
Ethyl methacrylate	1.1290 1.2396	1.1658 1.3132	1.2049 1.2925	1.1698 1.2821	1.2639	Ave		1.2290				5.3		15.0			
1,1,2-Trichloroethane	0.1726 0.1720	0.1814 0.1758	0.1781 0.1721	0.1706 0.1713	0.1728	Ave		0.1741				2.1		15.0			
Tetrachloroethene	0.6677 0.6145	0.6612 0.6056	0.6400 0.5746	0.5482 0.5751	0.5991	Ave		0.6096				6.7		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 496958

SDG No.:

Instrument ID: VMS_P GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2020 16:26 Calibration End Date: 06/01/2020 20:33 Calibration ID: 44775

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,3-Dichloropropane	1.5992 1.4048	1.5251 1.4367	1.5542 1.3983	1.4090 1.3710	1.4762	Ave		1.4638				5.4		15.0			
2-Hexanone	0.5975 0.6030	0.6705 0.7005	0.7016 0.6807	0.7322 0.6547	0.7095	Ave		0.6723				6.9		15.0			
Dibromochloromethane	0.7724 0.7764	0.6982 0.7967	0.7313 0.7836	0.6931 0.7792	0.7432	Ave		0.7527				5.1		15.0			
Ethylene Dibromide	0.9651 0.7802	0.8162 0.8052	0.8192 0.7939	0.7446 0.7842	0.8129	Ave		0.8135				7.6		15.0			
1-Chlorohexane	1.8983 1.1687	1.4843 1.1328	1.3488 1.0878	1.0391 1.0718	1.1516	Lin2	0.4010	1.0933							0.9960		0.9900
Chlorobenzene	2.8431 2.2931	2.4882 2.2828	2.5613 2.2170	2.1276 2.1592	2.3153	Ave		2.3653			0.3000	9.7		15.0			
1,1,1,2-Tetrachloroethane	0.7470 0.7531	0.7135 0.7599	0.7208 0.7428	0.6719 0.7404	0.7068	Ave		0.7285				3.8		15.0			
Ethylbenzene	1.4916 1.2986	1.2985 1.3009	1.3772 1.2389	1.1724 1.2245	1.2833	Ave		1.2984				7.1		30.0			
m-Xylene & p-Xylene	1.7050 1.5716	1.6188 1.5634	1.6599 1.5211	1.3964 1.4782	1.5437	Ave		1.5620				6.0		15.0			
o-Xylene	1.6131 1.5082	1.4768 1.5167	1.6055 1.4652	1.3796 1.4336	1.5065	Ave		1.5006				5.0		15.0			
Styrene	2.6597 2.6050	2.4800 2.6021	2.6301 2.5303	2.2837 2.4262	2.5330	Ave		2.5278				4.7		15.0			
Bromoform	0.3772 0.4628	0.4078 0.4907	0.4224 0.4905	0.4134 0.4976	0.4420	Ave		0.4449			0.1000	9.6		15.0			
Isopropylbenzene	2.9207 2.6388	2.5972 2.6100	2.7993 2.4965	2.4207 2.4416	2.6282	Ave		2.6170				6.2		15.0			
Cyclohexanone	0.0425 0.0446	0.0481 0.0532	0.0526 0.0527	0.0587 0.0523	0.0561	Ave		0.0512				10.2		15.0			
1,1,2,2-Tetrachloroethane	0.8348 0.7118	0.8025 0.7375	0.7913 0.7239	0.8059 0.7211	0.7746	Ave		0.7670			0.3000	5.8		15.0			
Bromobenzene	0.7371 0.6049	0.6137 0.5992	0.6435 0.5917	0.5840 0.5870	0.5954	Ave		0.6174				7.8		15.0			
trans-1,4-Dichloro-2-butene	0.2012 0.1997	0.1801 0.2105	0.2016 0.2108	0.2070 0.2135	0.2092	Ave		0.2037				5.0		15.0			
1,2,3-Trichloropropane	0.2640 0.2073	0.2509 0.2189	0.2606 0.2148	0.2352 0.2141	0.2286	Ave		0.2327				9.1		15.0			
N-Propylbenzene	0.8025 0.7397	0.7405 0.7190	0.7765 0.7021	0.6300 0.6985	0.7180	Ave		0.7252				6.8		15.0			
2-Chlorotoluene	0.6633 0.6172	0.6146 0.6083	0.6690 0.5897	0.5711 0.5913	0.6015	Ave		0.6140				5.3		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 496958

SDG No.:

Instrument ID: VMS_P GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2020 16:26 Calibration End Date: 06/01/2020 20:33 Calibration ID: 44775

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,3,5-Trimethylbenzene	2.3551 2.1752	2.1731 2.1703	2.2493 2.0577	1.9914 2.0094	2.1530	Ave		2.1483				5.4		15.0			
4-Chlorotoluene	0.7545 0.6430	0.6464 0.6311	0.6551 0.6215	0.5833 0.6135	0.6400	Ave		0.6432				7.3		15.0			
tert-Butylbenzene	2.0608 1.8063	1.8002 1.7795	1.8966 1.7171	1.6183 1.6943	1.8020	Ave		1.7972				7.1		15.0			
1,2,4-Trimethylbenzene	2.4448 2.2016	2.1610 2.1649	2.2655 2.0984	2.0025 2.0249	2.1787	Ave		2.1714				6.1		15.0			
sec-Butylbenzene	0.5745 0.5380	0.5150 0.5254	0.5725 0.5014	0.4806 0.5092	0.5140	Ave		0.5256				6.0		15.0			
1,3-Dichlorobenzene	+++++ 1.1241	1.1551 1.1220	1.1918 1.0918	1.0646 1.0774	1.1141	Ave		1.1176				3.7		15.0			
4-Isopropyltoluene	2.4070 2.2834	2.1853 2.2155	2.2701 2.1420	1.9940 2.0784	2.2002	Ave		2.1973				5.5		15.0			
1,4-Dichlorobenzene	+++++ 1.1395	1.2920 1.1360	1.2862 1.0997	1.0905 1.0898	1.1263	Ave		1.1575				7.2		15.0			
n-Butylbenzene	2.3154 2.1037	2.1183 2.0423	2.1364 1.9557	1.8360 1.9070	2.0269	Ave		2.0491				6.9		15.0			
1,2-Dichlorobenzene	1.2828 1.0736	1.1374 1.0901	1.1690 1.0550	1.0580 1.0431	1.0822	Ave		1.1101				6.9		15.0			
1,2-Dibromo-3-Chloropropane	0.1158 0.1202	0.1217 0.1385	0.1267 0.1382	0.1354 0.1477	0.1274	Ave		0.1302				8.0		15.0			
1,2,4-Trichlorobenzene	+++++ 0.6191	0.6124 0.6199	0.6022 0.6100	0.5585 0.6283	0.5803	Ave		0.6038				3.9		15.0			
Hexachlorobutadiene	+++++ 0.2332	0.2237 0.2212	0.2383 0.2125	0.1939 0.2252	0.2098	Ave		0.2197				6.4		15.0			
Naphthalene	2.1471 1.8713	1.8463 2.0171	1.8364 1.9970	1.9310 2.0064	1.9153	Ave		1.9520				5.1		15.0			
1,2,3-Trichlorobenzene	+++++ 0.5563	0.5614 0.5723	0.5535 0.5616	0.5351 0.5738	0.5284	Ave		0.5553				2.9		15.0			
Dibromofluoromethane (Surr)	0.2407 0.2398	0.2411 0.2413	0.2405 0.2421	0.2404 0.2413	0.2400	Ave		0.2408				0.3		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2860 0.2733	0.2901 0.2807	0.2886 0.2795	0.2868 0.2766	0.2884	Ave		0.2833				2.1		15.0			
Toluene-d8 (Surr)	4.4266 4.3600	4.4563 4.3900	4.4525 4.3492	4.4175 4.3184	4.4261	Ave		4.3996				1.1		15.0			
4-Bromofluorobenzene (Surr)	1.1116 1.1011	1.1177 1.0955	1.1073 1.0784	1.1155 1.0882	1.1173	Ave		1.1036				1.3		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 496958

SDG No.:

Instrument ID: VMS_P GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2020 16:26 Calibration End Date: 06/01/2020 20:33 Calibration ID: 44775

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 280-496958/12	P1658.D
Level 2	STD010 280-496958/13	P1659.D
Level 3	STD020 280-496958/14	P1660.D
Level 4	STD050 280-496958/15	P1661.D
Level 5	STD10 280-496958/16	P1662.D
Level 6	ICIS 280-496958/17	P1669.D
Level 7	STD75 280-496958/18	P1664.D
Level 8	STD100 280-496958/19	P1665.D
Level 9	STD200 280-496958/20	P1666.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dichlorodifluoromethane	FB	Ave	3150 389403	5476 565032	11244 732362	38285 1521181	76509	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chloromethane	FB	Lin2	7957 518425	10961 753095	18647 960082	51981 1944451	97832	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Vinyl chloride	FB	Ave	5697 566674	9829 831473	20856 1065051	57213 2156770	110707	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromomethane	FB	Lin1	+++++ 267351	10332 288045	14480 440495	22950 829108	47958	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chloroethane	FB	Ave	3750 367238	6373 519320	13433 677138	35486 1338855	69871	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dichlorofluoromethane	FB	Ave	8114 851263	15298 1256526	30965 1626866	81685 3337067	157676	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Trichlorofluoromethane	FB	Ave	6751 688909	12743 1029796	25172 1332462	70991 2746174	134330	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethyl ether	FB	Ave	4438 433032	8448 636933	16790 867417	39315 1748580	81198	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Acrolein	FB	Ave	11284 992240	20816 1531495	41406 2049494	100409 4216625	198934	4.94 494	9.88 741	19.8 988	49.4 1975	98.8
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	3277 323522	6283 455666	12382 583334	26144 1210821	58580	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1-Dichloroethene	FB	Ave	4050 432834	8105 614318	16694 803768	35001 1646977	78660	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Acetone	FB	Lin2	9926 599119	17462 986514	32447 1328269	70934 2724330	131651	2.00 200	4.00 300	8.00 400	20.0 800	40.0
Iodomethane	FB	Lin	+++++ 388838	5391 649402	6724 853782	15949 1638641	41908	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Carbon disulfide	FB	Lin2	19807 1445817	26575 1991209	52942 2649300	113233 5354499	249116	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 496958

SDG No.:

Instrument ID: VMS_P GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2020 16:26 Calibration End Date: 06/01/2020 20:33 Calibration ID: 44775

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Methyl acetate	FB	Ave	8673 774814	17449 1272496	34344 1718245	81580 3572489	163271	1.00 100	2.00 150	4.00 200	10.0 400	20.0
3-Chloro-1-propene	FB	Ave	7301 767084	13759 1048018	28409 1398353	59709 2597002	135183	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Methylene Chloride	FB	Lin2	9706 508123	12146 726350	22322 982723	47489 1965595	95819	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
t-Butyl alcohol	FB	Ave	4840 476237	10427 844878	21901 1163015	58678 2468347	106253	5.00 500	10.0 750	20.0 1000	50.0 2000	100
Acrylonitrile	FB	Ave	24558 2147902	46835 3422488	94418 4584473	221256 9225550	437925	5.00 500	10.0 750	20.0 1000	50.0 2000	100
Methyl tert-butyl ether	FB	Ave	13079 1410931	26688 2097701	54197 2851275	124365 5795702	265416	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,2-Dichloroethene	FB	Ave	5776 496599	9430 699589	18947 932241	41058 1894659	88732	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Hexane	CBNZ d5	Ave	6679 719384	13212 991684	26560 1270824	56864 2650185	130470	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Vinyl acetate	FB	Ave	21034 2295944	39777 3210150	80611 4053327	190703 8022993	394091	1.00 100	2.00 150	4.00 200	10.0 400	20.0
1,1-Dichloroethane	FB	Ave	8693 913640	17492 1324489	35499 1757478	78561 3524595	171592	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Butanone (MEK)	FB	Ave	11145 992035	22389 1657714	46020 2217162	113733 4551845	221028	2.00 200	4.00 300	8.00 400	20.0 800	40.0
cis-1,2-Dichloroethene	FB	Ave	6043 546752	10604 785590	21423 1058127	45860 2140264	99347	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2,2-Dichloropropane	FB	Ave	5776 674576	11073 916619	23061 1229414	50592 2543532	112216	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
sec-Butyl Alcohol	FB	Ave	+++++ 1213494	22900 2164234	47471 2977506	138755 6200156	265274	+++++ 1500	30.0 2250	60.0 3000	150 6000	300
Bromochloromethane	FB	Ave	2716 246645	4702 349155	9931 466481	20887 916158	45134	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Tetrahydrofuran	FB	Ave	+++++ 330688	7747 554326	14739 746007	36254 1562767	72173	+++++ 100	2.00 150	4.00 200	10.0 400	20.0
Chloroform	FB	Ave	9141 857391	16640 1234280	35178 1656789	74923 3319211	160425	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,1-Trichloroethane	FB	Ave	6890 699182	12946 1007366	27396 1332750	58098 2730851	126621	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Cyclohexane	FB	Ave	8897 900566	16664 1295262	33843 1661826	72517 3432828	167527	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1-Dichloropropene	FB	Ave	7420 722099	14002 1052218	27826 1385678	60834 2820470	133932	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Carbon tetrachloride	FB	Ave	5446 593951	10013 845679	21806 1123442	45792 2331188	105812	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 496958

SDG No.:

Instrument ID: VMS_P GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2020 16:26 Calibration End Date: 06/01/2020 20:33 Calibration ID: 44775

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Isobutyl alcohol	FB	Ave	4174 435234	8906 768829	18462 1036679	51802 2158330	96963	12.5 1250	25.0 1875	50.0 2500	125 5000	250
Benzene	FB	Ave	21681 2121944	41858 3064336	84162 4103192	184836 8100543	392915	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichloroethane	FB	Lin2	10662 666788	16511 978504	30197 1314638	64913 2621872	130615	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Trichloroethene	FB	Ave	6006 527518	9625 740389	20658 992812	42697 2041486	94360	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Pentanone	FB	Ave	14862 1546919	31765 2572976	66130 3459479	169279 7086221	330037	2.00 200	4.00 300	8.00 400	20.0 800	40.0
Methylcyclohexane	FB	Ave	7113 672553	12607 963441	25828 1240952	55290 2586376	124604	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichloropropane	FB	Ave	5321 553580	10485 811193	20818 1087577	47629 2237217	102772	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,4-Dioxane	FB	Ave	1456 134765	2933 224792	5492 304422	15477 629142	29303	10.0 1000	20.0 1500	40.0 2000	100 4000	200
Dibromomethane	FB	Ave	+++++ 310055	6224 460404	11931 622019	28351 1265341	58752	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromodichloromethane	FB	Ave	6627 647111	11312 943348	24474 1269877	54885 2599633	116062	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Chloroethyl vinyl ether	FB	Ave	3862 375914	6403 598010	12997 777645	34848 1631027	69995	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
cis-1,3-Dichloropropene	CBNZ d5	Ave	7399 830989	13633 1216450	27908 1639115	65109 3390099	143800	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	18727 2019078	40359 3333758	85733 4449408	216321 8889699	432244	2.00 200	4.00 300	8.00 400	20.0 800	40.0
Toluene	FB	Ave	23555 2209256	43821 3185871	89995 4226712	191514 8379887	412287	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,3-Dichloropropene	FB	Ave	7409 739208	11495 1084089	24304 1494637	55704 3090342	121709	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethyl methacrylate	CBNZ d5	Ave	6180 730677	12391 1123161	25633 1529747	63746 3141319	136938	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,2-Trichloroethane	FB	Ave	4248 446203	8647 664027	16908 892221	41158 1826181	83459	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Tetrachloroethene	CBNZ d5	Ave	3655 362210	7028 517985	13615 680115	29875 1409071	64911	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3-Dichloropropane	CBNZ d5	Ave	8754 828087	16209 1228848	33064 1654933	76780 3359188	159930	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Hexanone	CBNZ d5	Ave	13083 1421906	28505 2396568	59708 3222482	159597 6416464	307466	2.00 200	4.00 300	8.00 400	20.0 800	40.0
Dibromochloromethane	CBNZ d5	Ave	4228 457646	7421 681438	15559 927388	37770 1909184	80520	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 496958

SDG No.:

Instrument ID: VMS_P GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2020 16:26 Calibration End Date: 06/01/2020 20:33 Calibration ID: 44775

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Ethylene Dibromide	CBNZ d5	Ave	5283 459893	8675 688729	17428 939615	40577 1921283	88076	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1-Chlorohexane	CBNZ d5	Lin2	10391 688923	15776 968916	28696 1287435	56622 2625923	124764	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chlorobenzene	CBNZ d5	Ave	15563 1351697	26446 1952494	54491 2623954	115938 5290337	250839	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	4089 443921	7583 649959	15334 879154	36611 1814145	76578	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethylbenzene	CBNZ d5	Ave	8165 765475	13801 1112684	29300 1466328	63884 3000265	139031	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
m-Xylene & p-Xylene	CBNZ d5	Ave	9333 926436	17205 1337167	35314 1800340	76090 3621670	167252	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
o-Xylene	CBNZ d5	Ave	8830 889019	15696 1297286	34157 1734182	75177 3512399	163211	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Styrene	CBNZ d5	Ave	14559 1535593	26358 2225643	55954 2994821	124441 5944526	274427	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromoform	CBNZ d5	Ave	2065 272832	4334 419665	8987 580498	22527 1219200	47885	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Isopropylbenzene	DCBd 4	Ave	22793 2246623	39516 3269113	85484 4297903	188253 8473631	412530	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Cyclohexanone	CBNZ d5	Ave	9304 1051966	20432 1820858	44758 2497231	127996 5123084	242913	20.0 2000	40.0 3000	80.0 4000	200 8000	400
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	6515 606034	12209 923777	24163 1246192	62677 2502476	121592	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromobenzene	DCBd 4	Ave	5752 514975	9337 750457	19650 1018637	45419 2037374	93464	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	1570 169990	2740 263640	6156 362926	16098 740899	32840	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	2060 176525	3818 274122	7957 369781	18290 742902	35882	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
N-Propylbenzene	DCBd 4	Ave	6263 629799	11266 900621	23713 1208674	48994 2424282	112695	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Chlorotoluene	DCBd 4	Ave	5176 525501	9351 761914	20430 1015287	44412 2052197	94413	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	18379 1851899	33063 2718338	68689 3542571	154872 6973832	337938	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Chlorotoluene	DCBd 4	Ave	5888 547434	9835 790475	20005 1069992	45363 2129083	100456	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
tert-Butylbenzene	DCBd 4	Ave	16082 1537848	27390 2228828	57918 2956162	125850 5880094	282847	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	19079 1874413	32879 2711650	69183 3612602	155733 7027541	341971	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 496958

SDG No.:

Instrument ID: VMS_P GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/01/2020 16:26 Calibration End Date: 06/01/2020 20:33 Calibration ID: 44775

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
sec-Butylbenzene	DCBd 4	Ave	4483 458007	7836 658067	17482 863268	37379 1767152	80672	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 957029	17575 1405320	36396 1879660	82789 3739315	174866	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Isopropyltoluene	DCBd 4	Ave	18784 1944009	33248 2775007	69322 3687575	155069 7213150	345360	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 970134	19657 1422924	39277 1893150	84803 3782164	176794	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
n-Butylbenzene	DCBd 4	Ave	18069 1790989	32229 2558085	65241 3366903	142782 6618361	318151	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	10011 914029	17305 1365427	35697 1816228	82278 3619991	169871	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	904 102294	1852 173521	3868 237845	10531 512443	19998	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 527062	9317 776485	18390 1050224	43433 2180721	91087	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 198550	3403 277038	7277 365804	15077 781505	32937	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Naphthalene	DCBd 4	Ave	16756 1593185	28091 2526472	56079 3438073	150170 6963268	300637	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 473636	8541 716876	16904 966833	41611 1991580	82932	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dibromofluoromethane (Surr)	FB	Ave	592424 622098	574659 607631	571033 627480	579846 643049	579503	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	704070 709192	691353 706747	685163 724426	691950 737268	696272	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	2423114 2570054	2368182 2503188	2368091 2573814	2407178 2645158	2397674	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	867490 937409	850285 914750	845318 928259	867537 944124	876843	50.0 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Lims ID: STD005
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 01-Jun-2020 16:26:30 ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD005
Operator ID: SEIFERTJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jun-2020 11:15:31 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1054

First Level Reviewer: seifertj Date: 02-Jun-2020 09:01:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.112	5.113	-0.001	98	2461662	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.644	7.646	-0.002	87	547396	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.871	9.873	-0.002	98	780394	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.605	4.607	-0.002	92	592424	50.0	50.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.869	4.871	-0.002	97	704070	50.0	50.5	
$ 6 Toluene-d8 (Surr)	98	6.367	6.369	-0.002	93	2423114	50.0	50.3	
$ 7 4-Bromofluorobenzene (Surr)	95	8.742	8.743	-0.001	85	867490	50.0	50.4	
10 Dichlorodifluoromethane	85	1.671	1.662	0.009	97	3150	0.5000	0.4563	a
11 Chloromethane	50	1.840	1.842	-0.002	99	7957	0.5000	0.5358	a
12 Vinyl chloride	62	1.946	1.937	0.009	97	5697	0.5000	0.5286	
14 Bromomethane	94	2.241	2.232	0.009	88	6640	0.5000	-0.0676	a
15 Chloroethane	64	2.326	2.327	-0.001	98	3750	0.5000	0.5464	
16 Dichlorofluoromethane	67	2.505	2.496	0.009	97	8114	0.5000	0.5063	
17 Trichlorofluoromethane	101	2.537	2.538	-0.001	97	6751	0.5000	0.5075	
19 Ethyl ether	59	2.748	2.749	-0.001	92	4438	0.5000	0.5294	
21 Acrolein	56	2.853	2.855	-0.002	99	11284	4.94	5.45	
22 1,1-Dichloroethene	96	2.948	2.939	0.009	95	4050	0.5000	0.5080	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.948	2.939	0.009	81	3277	0.5000	0.5463	
24 Acetone	43	2.959	2.960	-0.001	100	9926	2.00	1.84	a
26 Iodomethane	142	3.075	3.066	0.009	98	5837	0.5000	1.45	a
27 Carbon disulfide	76	3.128	3.129	-0.001	99	19807	0.5000	0.5433	a
29 Methyl acetate	43	3.191	3.193	-0.002	98	8673	1.00	1.04	
30 3-Chloro-1-propene	41	3.212	3.214	-0.002	90	7301	0.5000	0.5342	
31 Methylene Chloride	84	3.307	3.309	-0.002	92	9706	0.5000	0.5381	a
32 2-Methyl-2-propanol	59	3.349	3.351	-0.002	97	4840	5.00	4.49	
33 Acrylonitrile	53	3.476	3.467	0.009	97	24558	5.00	5.42	
34 Methyl tert-butyl ether	73	3.497	3.499	-0.002	96	13079	0.5000	0.4859	
35 trans-1,2-Dichloroethene	96	3.518	3.509	0.009	96	5776	0.5000	0.6138	
36 Hexane	57	3.708	3.710	-0.002	92	6679	0.5000	0.5232	
38 Vinyl acetate	43	3.814	3.805	0.009	95	21034	1.00	1.04	
39 1,1-Dichloroethane	63	3.835	3.836	-0.001	95	8693	0.5000	0.5049	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	4.225	4.216	0.009	99	11145	2.00	2.03	
47 cis-1,2-Dichloroethene	96	4.246	4.248	-0.002	83	6043	0.5000	0.5775	
48 2,2-Dichloropropane	77	4.257	4.258	-0.001	90	5776	0.5000	0.4956	
50 sec-Butyl Alcohol	45	4.331	4.322	0.009	96	9480	15.0	10.7	
52 Tetrahydrofuran	42	4.436	4.427	0.009	96	4387	1.00	1.21	
53 Chlorobromomethane	128	4.426	4.427	-0.001	96	2716	0.5000	0.5793	
54 Chloroform	83	4.489	4.480	0.009	92	9141	0.5000	0.5530	
55 1,1,1-Trichloroethane	97	4.626	4.628	-0.002	97	6890	0.5000	0.5264	
56 Cyclohexane	56	4.689	4.691	-0.002	91	8897	0.5000	0.5337	
57 1,1-Dichloropropene	75	4.742	4.744	-0.002	95	7420	0.5000	0.5411	
59 Carbon tetrachloride	117	4.753	4.754	-0.001	93	5446	0.5000	0.5084	
58 Isobutyl alcohol	41	4.753	4.754	-0.001	87	4174	12.5	11.0	
60 Benzene	78	4.901	4.902	-0.001	95	21681	0.5000	0.5352	
61 1,2-Dichloroethane	62	4.922	4.923	-0.001	95	10662	0.5000	0.4925	
66 n-Heptane	43	5.080	5.082	-0.002	73	7057	0.5000	0.5835	
67 Trichloroethene	95	5.386	5.388	-0.002	96	6006	0.5000	0.6038	
68 2-Pentanone	43	5.491	5.483	0.008	98	14862	2.00	1.82	
69 Methylcyclohexane	55	5.586	5.578	0.008	91	7113	0.5000	0.5631	
70 1,2-Dichloropropane	63	5.597	5.599	-0.002	96	5321	0.5000	0.5084	
72 1,4-Dioxane	88	5.639	5.630	0.009	77	1456	10.0	10.0	
73 Dibromomethane	93	5.671	5.662	0.009	91	4066	0.5000	0.6773	
74 Dichlorobromomethane	83	5.787	5.789	-0.002	98	6627	0.5000	0.5457	
76 2-Chloroethyl vinyl ether	63	5.998	5.989	0.009	89	3862	0.5000	0.5333	
77 cis-1,3-Dichloropropene	75	6.146	6.137	0.009	94	7399	0.5000	0.5040	
78 4-Methyl-2-pentanone (MIBK)	43	6.241	6.242	-0.001	96	18727	2.00	1.79	
79 Toluene	91	6.431	6.432	-0.001	98	23555	0.5000	0.5543	
80 trans-1,3-Dichloropropene	75	6.610	6.601	0.009	97	7409	0.5000	0.5571	
81 Ethyl methacrylate	69	6.631	6.622	0.009	88	6180	0.5000	0.4593	
82 1,1,2-Trichloroethane	97	6.779	6.781	-0.002	90	4248	0.5000	0.4957	
83 Tetrachloroethene	164	6.874	6.876	-0.002	87	3655	0.5000	0.5477	
84 1,3-Dichloropropane	76	6.927	6.928	-0.001	89	8754	0.5000	0.5462	
85 2-Hexanone	43	6.948	6.939	0.009	94	13083	2.00	1.78	
86 Chlorodibromomethane	129	7.127	7.118	0.009	89	4228	0.5000	0.5131	
88 Ethylene Dibromide	107	7.243	7.245	-0.002	98	5283	0.5000	0.5932	
89 1-Chlorohexane	91	7.634	7.635	-0.001	67	10391	0.5000	0.5014	
90 Chlorobenzene	112	7.676	7.678	-0.002	92	15563	0.5000	0.6010	
92 Ethylbenzene	106	7.750	7.751	-0.001	99	8165	0.5000	0.5744	
91 1,1,1,2-Tetrachloroethane	131	7.750	7.751	-0.001	91	4089	0.5000	0.5127	
93 m-Xylene & p-Xylene	106	7.866	7.868	-0.002	99	9333	0.5000	0.5458	
94 o-Xylene	106	8.235	8.226	0.009	95	8830	0.5000	0.5375	
95 Styrene	104	8.246	8.247	-0.001	94	14559	0.5000	0.5261	
96 Bromoform	173	8.436	8.427	0.009	91	2065	0.5000	0.4239	
97 Isopropylbenzene	105	8.573	8.575	-0.002	95	22793	0.5000	0.5580	
99 Cyclohexanone	55	8.668	8.670	-0.002	93	9304	20.0	16.6	
100 1,1,2,2-Tetrachloroethane	83	8.858	8.859	-0.001	93	6515	0.5000	0.5442	
101 Bromobenzene	156	8.889	8.891	-0.002	96	5752	0.5000	0.5969	
102 trans-1,4-Dichloro-2-butene	53	8.889	8.891	-0.002	44	1570	0.5000	0.4938	
103 1,2,3-Trichloropropane	110	8.921	8.923	-0.002	83	2060	0.5000	0.5672	
104 N-Propylbenzene	120	8.974	8.965	0.009	99	6263	0.5000	0.5533	
105 2-Chlorotoluene	126	9.069	9.071	-0.002	95	5176	0.5000	0.5401	
106 1,3,5-Trimethylbenzene	105	9.143	9.144	-0.001	94	18379	0.5000	0.5481	
107 4-Chlorotoluene	126	9.185	9.187	-0.002	97	5888	0.5000	0.5866	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 tert-Butylbenzene	119	9.449	9.450	-0.001	92	16082	0.5000	0.5733	
109 1,2,4-Trimethylbenzene	105	9.512	9.514	-0.002	97	19079	0.5000	0.5630	
110 sec-Butylbenzene	134	9.670	9.672	-0.002	94	4483	0.5000	0.5465	
111 1,3-Dichlorobenzene	146	9.797	9.799	-0.002	97	11444	0.5000	0.6561	
112 4-Isopropyltoluene	119	9.818	9.820	-0.002	96	18784	0.5000	0.5477	
113 1,4-Dichlorobenzene	146	9.903	9.904	-0.001	88	12135	0.5000	0.6717	
115 n-Butylbenzene	91	10.219	10.221	-0.002	98	18069	0.5000	0.5650	
116 1,2-Dichlorobenzene	146	10.261	10.252	0.009	96	10011	0.5000	0.5778	
117 1,2-Dibromo-3-Chloropropane	157	11.032	11.033	-0.001	74	904	0.5000	0.4449	
119 1,2,4-Trichlorobenzene	180	11.865	11.856	0.009	93	6414	0.5000	0.6805	
120 Hexachlorobutadiene	225	12.003	12.004	-0.001	94	2919	0.5000	0.8512	
121 Naphthalene	128	12.129	12.131	-0.002	97	16756	0.5000	0.5500	
122 1,2,3-Trichlorobenzene	180	12.351	12.352	-0.001	93	5564	0.5000	0.6420	
S 139 1,2-Dichloroethene, Total (URS)	96				0		1.00	1.19	
S 142 Xylenes, Total	106				0		1.00	1.08	
S 140 Trihalomethanes, Total	1				0		2.00	2.04	
S 143 Xylenes, Total (URS)	1				0		1.00	1.08	
S 146 Total BTEX	1				0			2.75	
S 145 1,3-Dichloropropene, Total	1				0		1.00	1.06	
S 144 1,2-Dichloroethene, Total	1				0		1.00	1.19	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

MV-Gas A_00058	Amount Added:	0.10	Units: uL	
MV-MegaMainA_00034	Amount Added:	0.25	Units: uL	
mv-IS_SS_00001	Amount Added:	5.00	Units: uL	Run Reagent

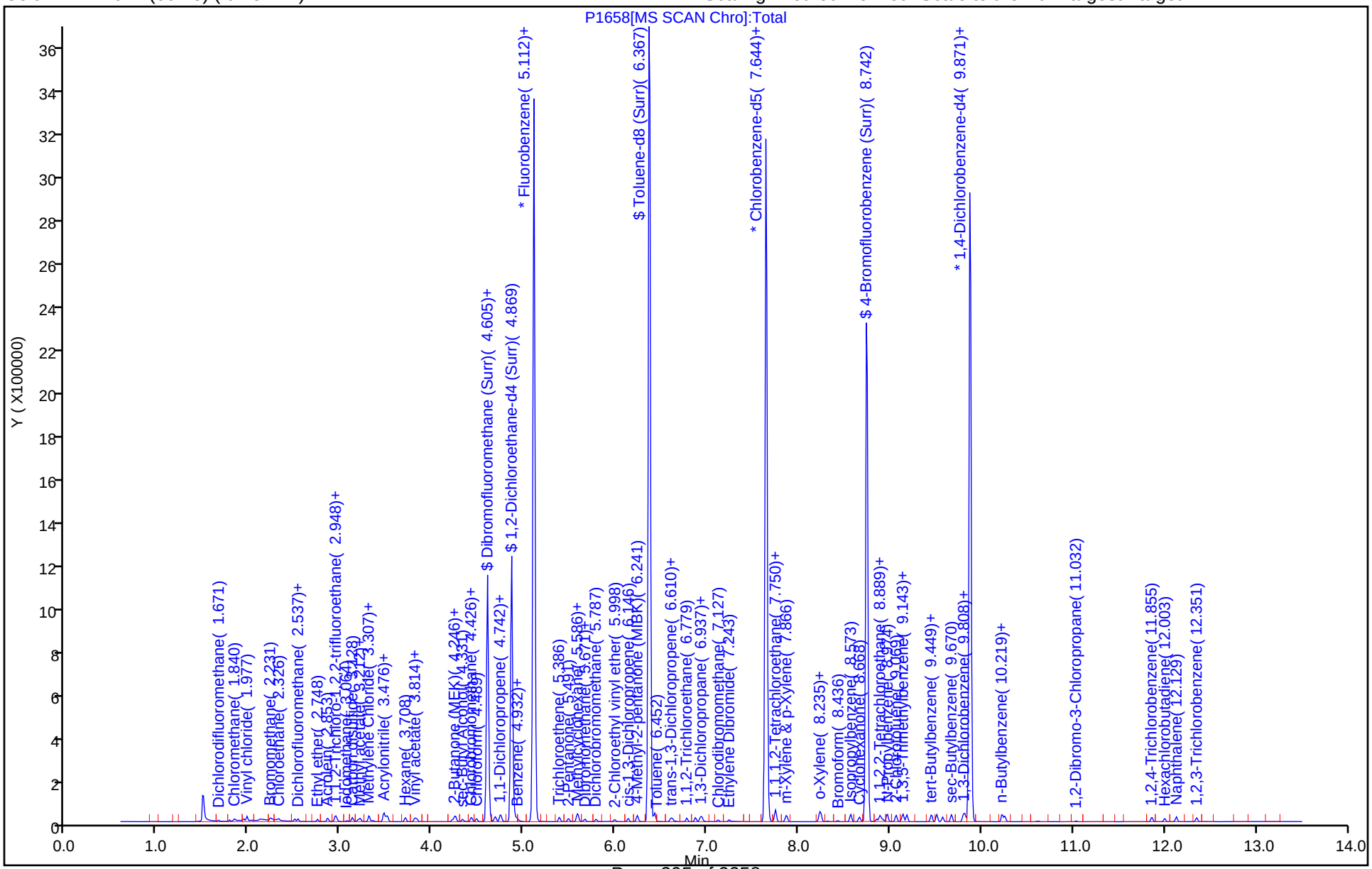
Report Date: 02-Jun-2020 11:15:32 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D

Injection Date:	01-Jun-2020 16:26:30	Instrument ID:	VMS_P	Operator ID:	SEIFERTJ
Lims ID:	STD005			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

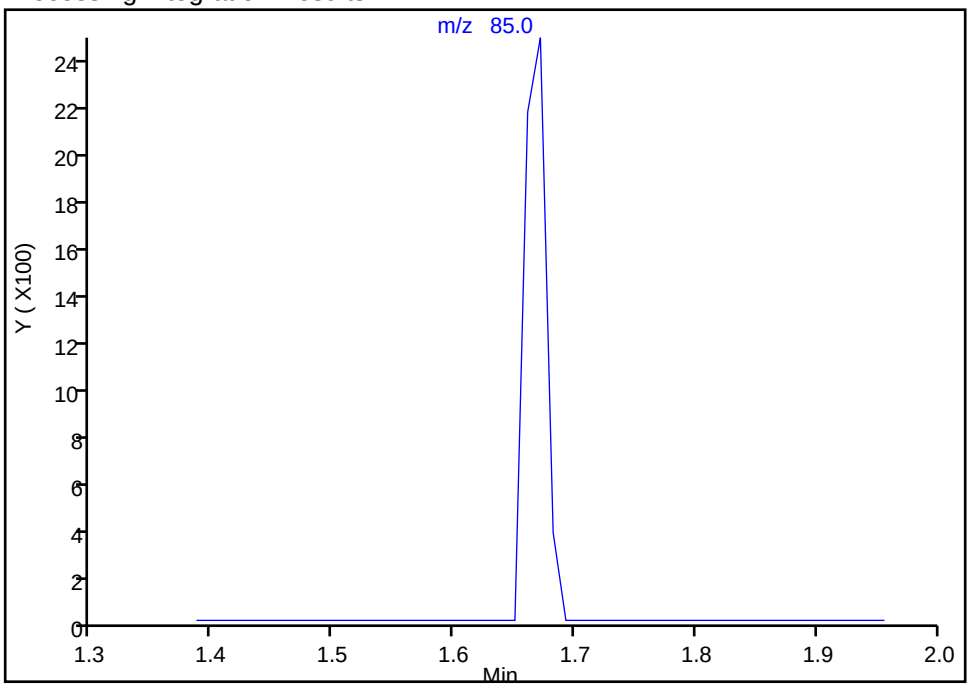
Data File:	\\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D				
Injection Date:	01-Jun-2020 16:26:30	Instrument ID:	VMS_P		
Lims ID:	STD005				
Client ID:					
Operator ID:	SEIFERTJ	ALS Bottle#:	1	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

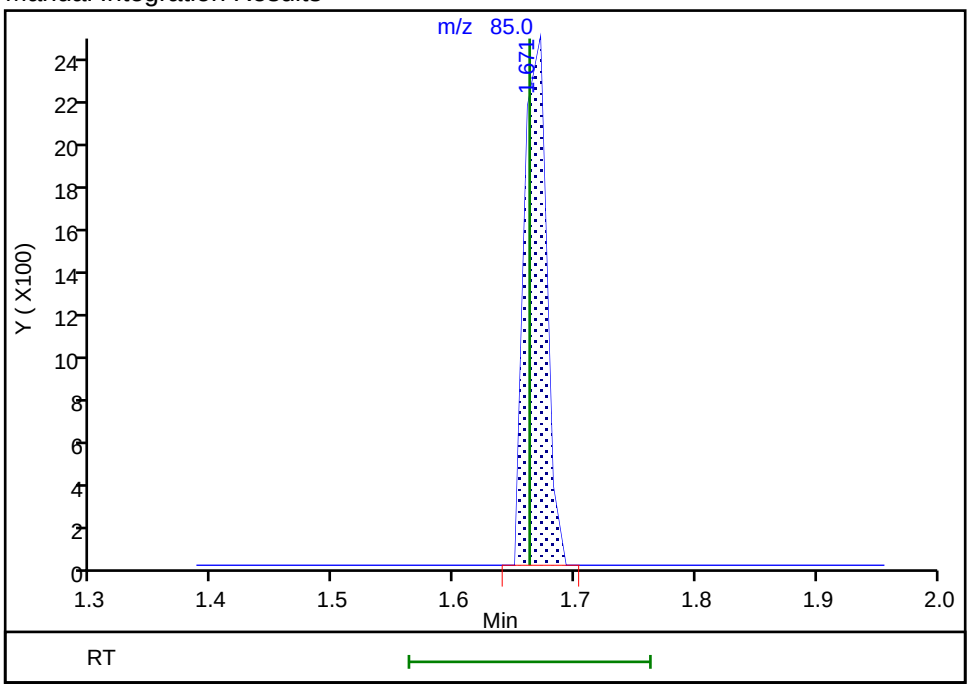
Not Detected
Expected RT: 1.66

Processing Integration Results



Manual Integration Results

RT: 1.67
Area: 3150
Amount: 0.456263
Amount Units: ug/l



Reviewer: seifertj, 02-Jun-2020 08:03:32
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

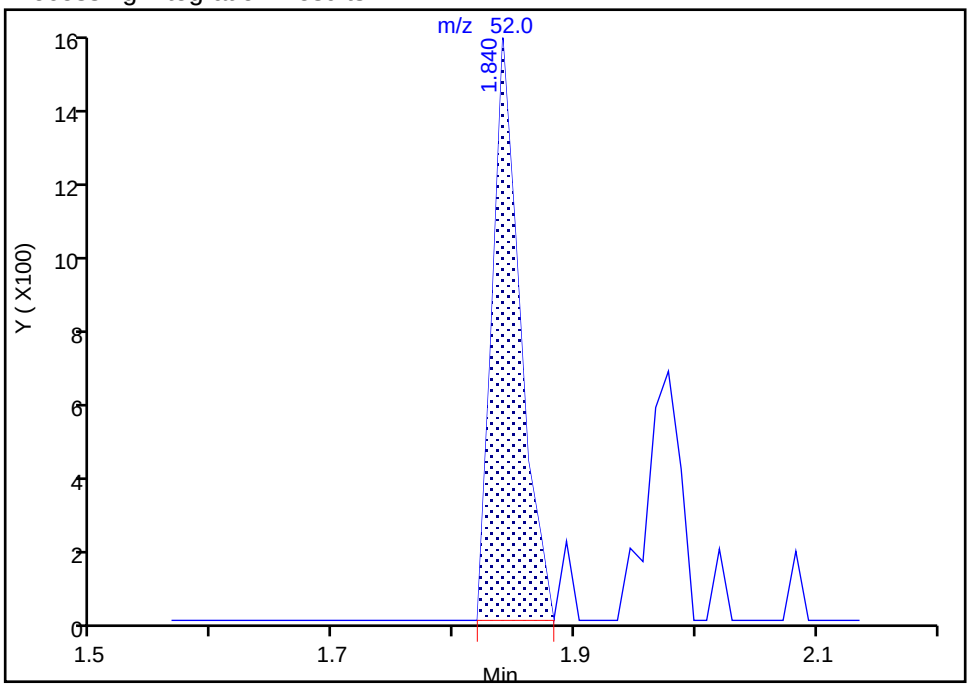
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

11 Chloromethane, CAS: 74-87-3

Signal: 2

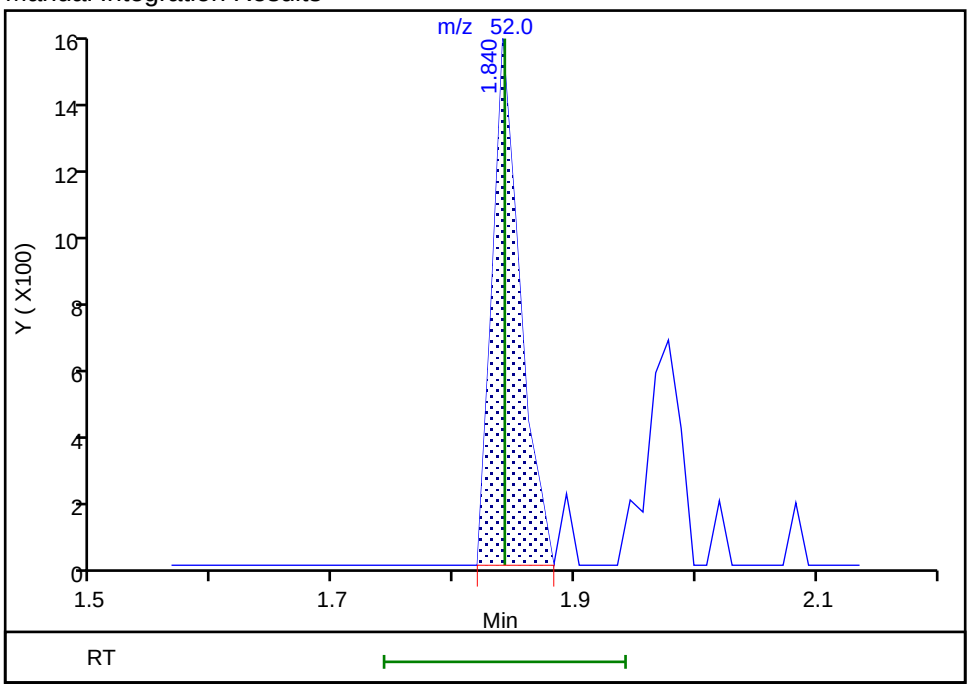
Processing Integration Results

RT: 1.84
Area: 2445
Amount: 0.535842
Amount Units: ug/l



Manual Integration Results

RT: 1.84
Area: 2445
Amount: 0.535842
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 20:55:53
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

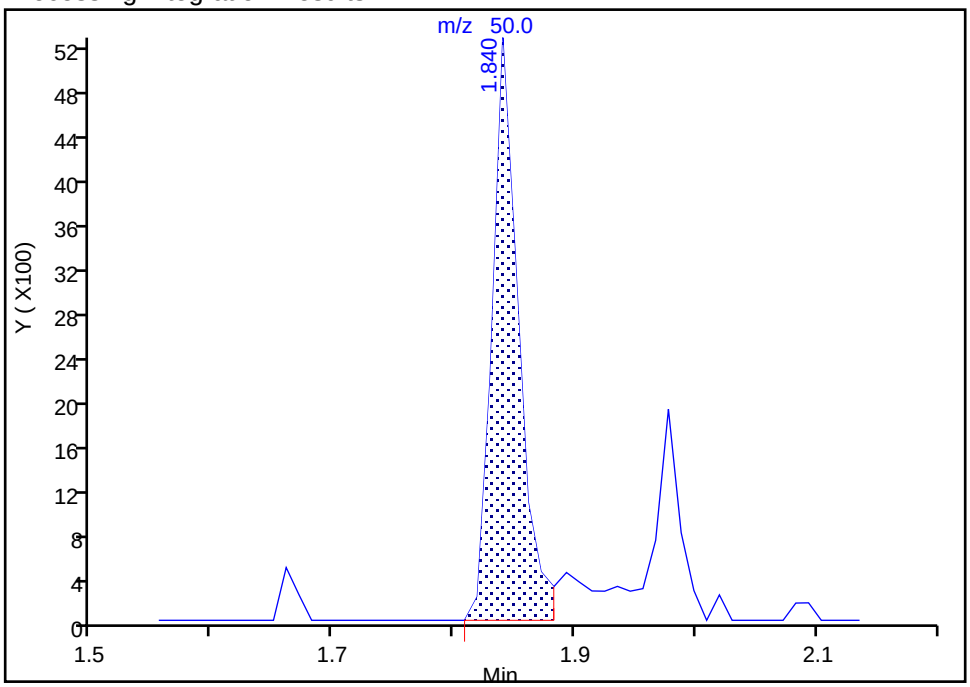
Data File:	\\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D				
Injection Date:	01-Jun-2020 16:26:30	Instrument ID:	VMS_P		
Lims ID:	STD005				
Client ID:					
Operator ID:	SEIFERTJ	ALS Bottle#:	1	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

11 Chloromethane, CAS: 74-87-3

Signal: 1

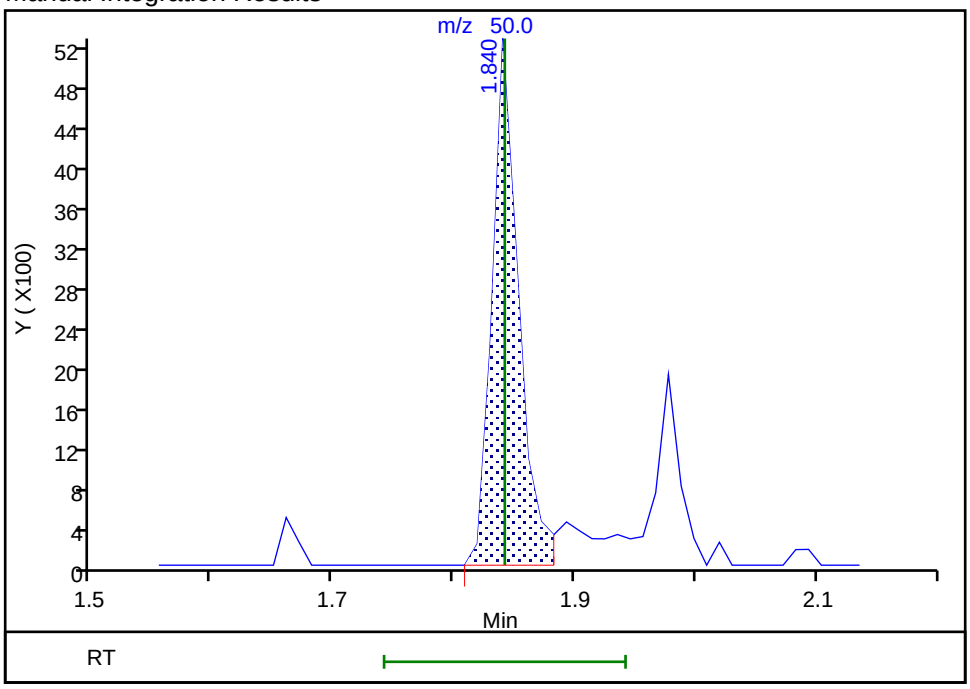
Processing Integration Results

RT: 1.84
Area: 7957
Amount: 0.535842
Amount Units: ug/l



Manual Integration Results

RT: 1.84
Area: 7957
Amount: 0.535842
Amount Units: ug/l



Reviewer: seifertj, 02-Jun-2020 08:03:41
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

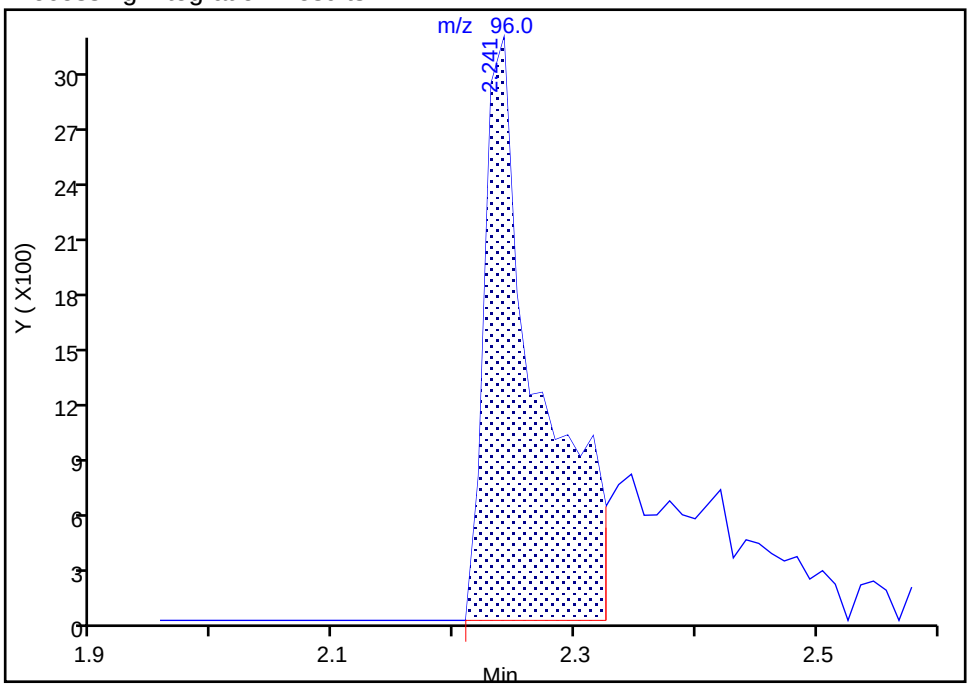
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 2

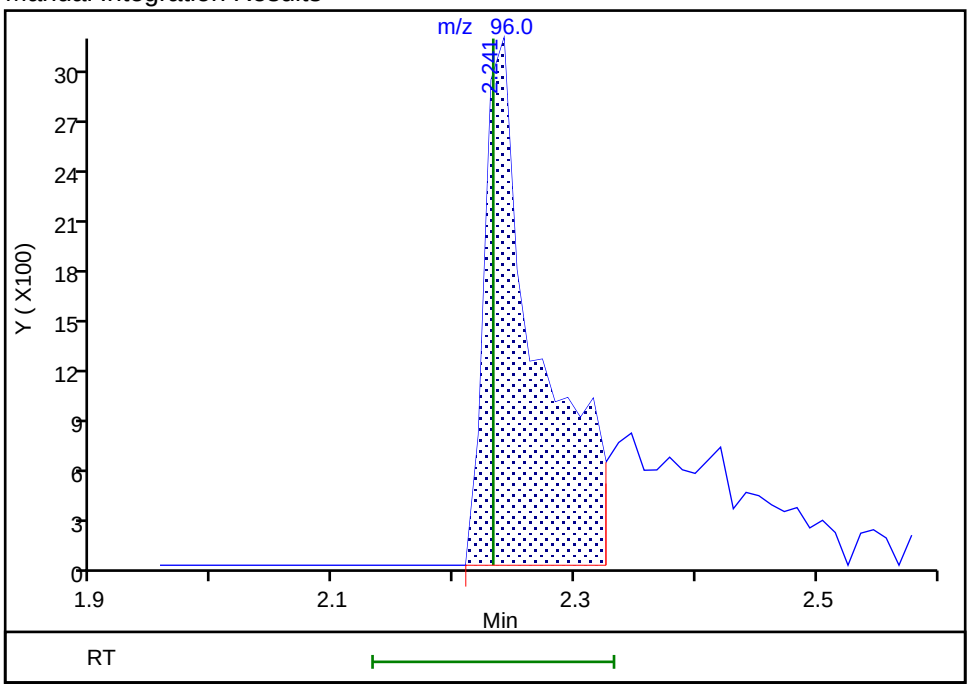
Processing Integration Results

RT: 2.24
Area: 9950
Amount: 0.237768
Amount Units: ug/l



Manual Integration Results

RT: 2.24
Area: 9950
Amount: -0.067594
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 20:55:55
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

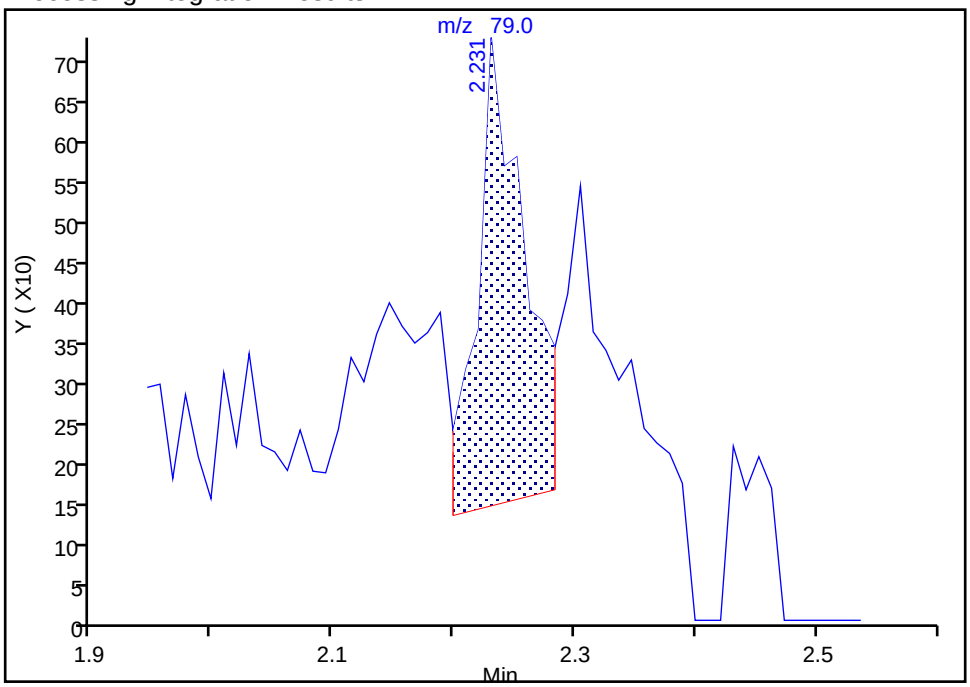
Data File:	\\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D				
Injection Date:	01-Jun-2020 16:26:30	Instrument ID:	VMS_P		
Lims ID:	STD005				
Client ID:					
Operator ID:	SEIFERTJ	ALS Bottle#:	1	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

14 Bromomethane, CAS: 74-83-9

Signal: 3

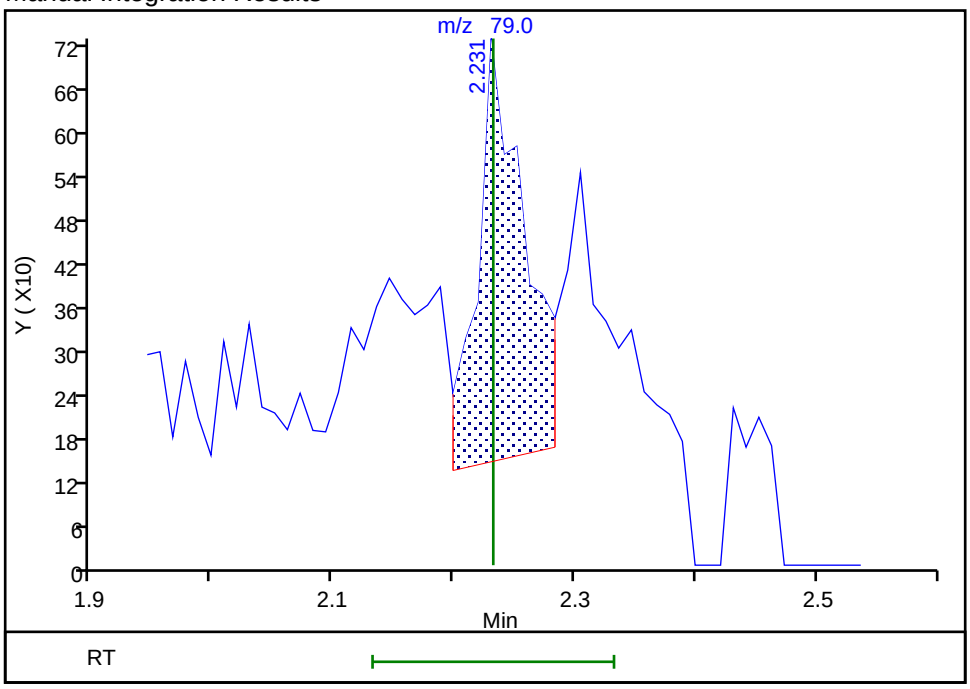
Processing Integration Results

RT: 2.23
Area: 1614
Amount: 0.237768
Amount Units: ug/l



Manual Integration Results

RT: 2.23
Area: 1614
Amount: -0.067594
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 20:55:55
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

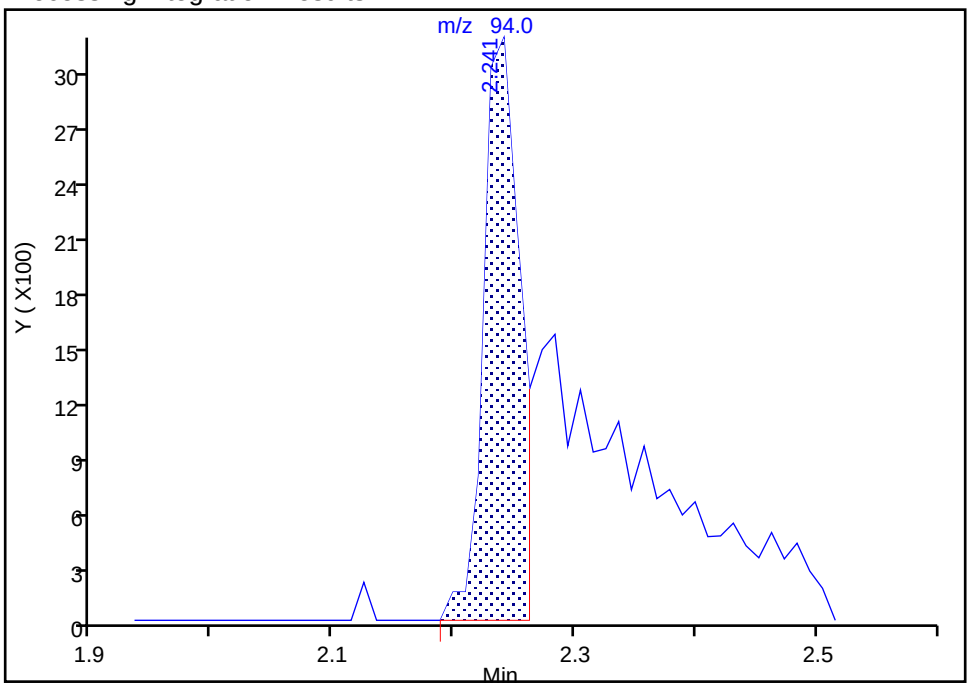
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

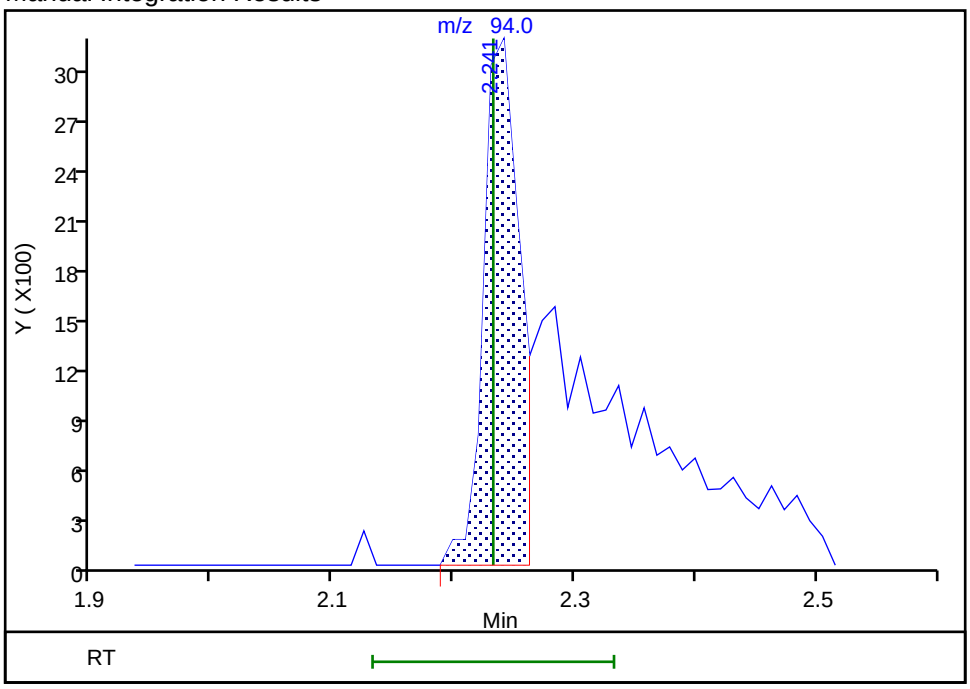
Processing Integration Results

RT: 2.24
Area: 6640
Amount: 0.237768
Amount Units: ug/l



Manual Integration Results

RT: 2.24
Area: 6640
Amount: -0.067594
Amount Units: ug/l



Reviewer: seifertj, 02-Jun-2020 08:03:49
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

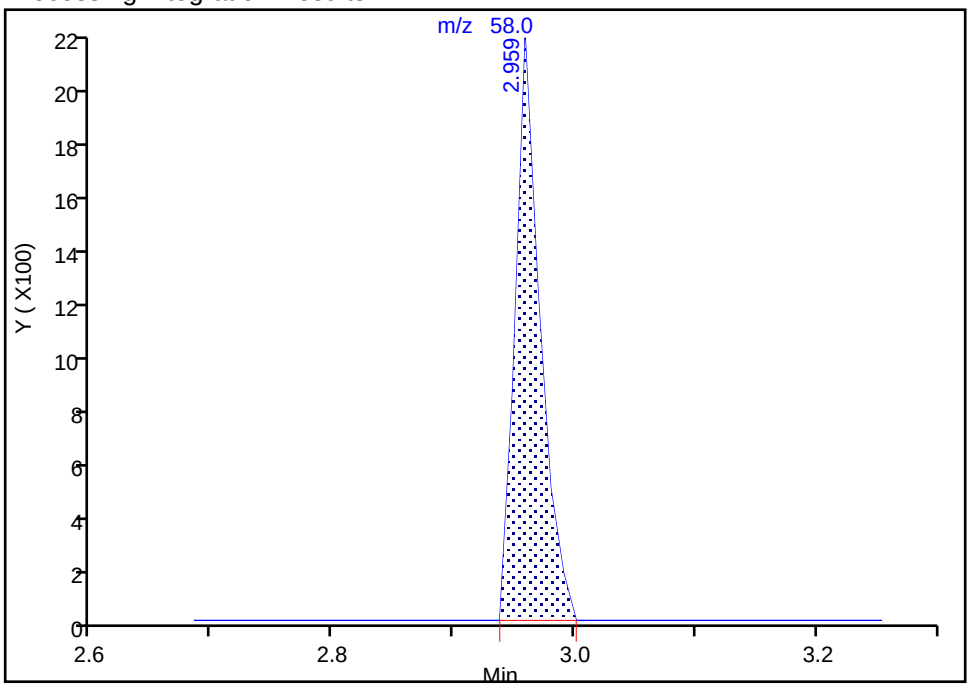
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

24 Acetone, CAS: 67-64-1

Signal: 2

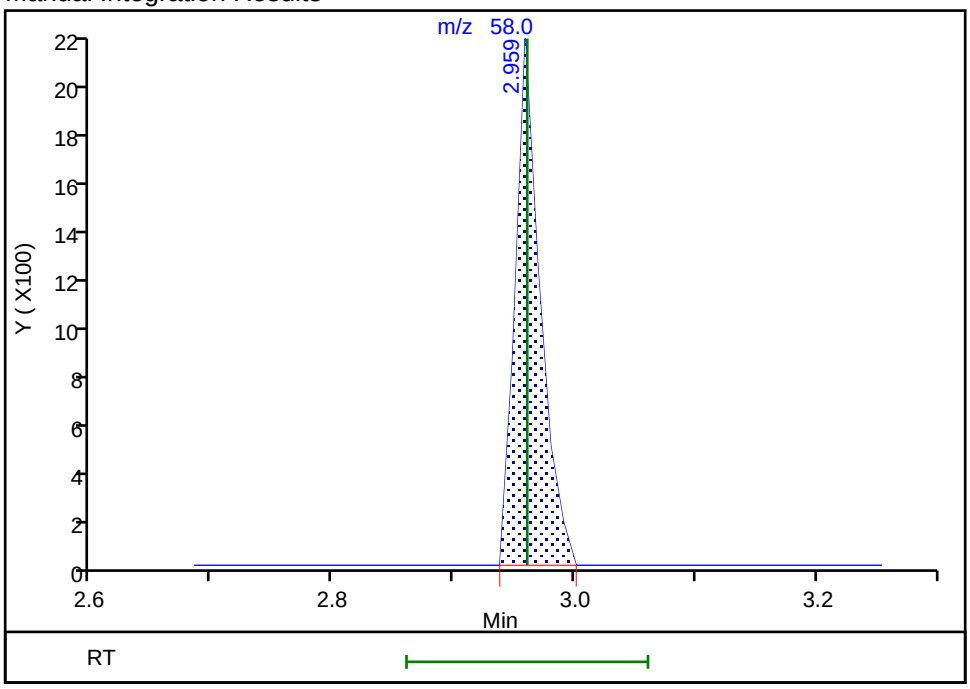
Processing Integration Results

RT: 2.96
Area: 3044
Amount: 1.910701
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 3044
Amount: 1.835879
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:52:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

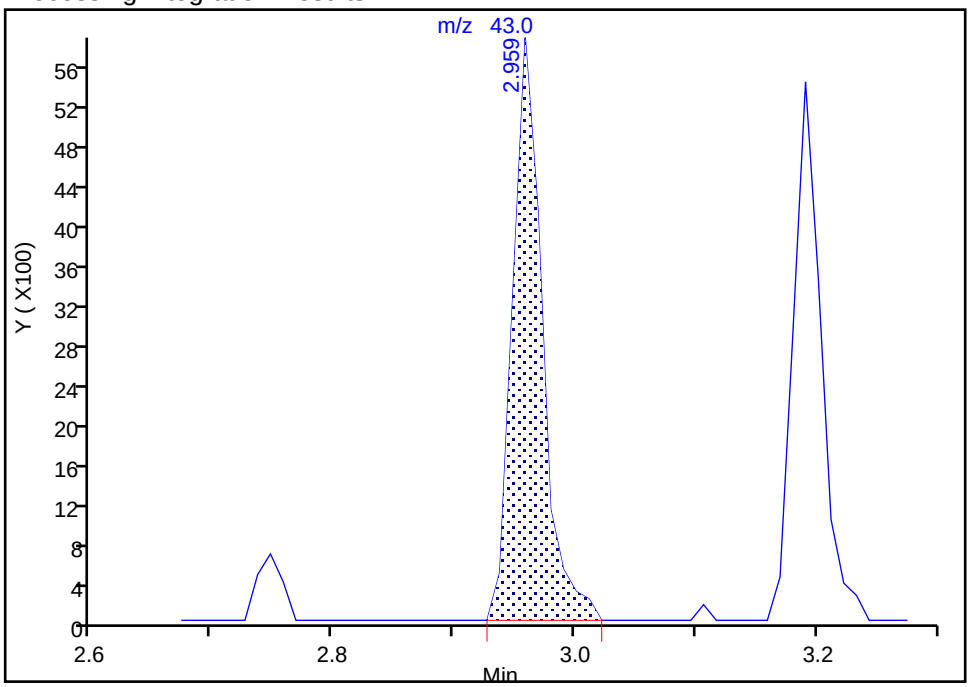
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

24 Acetone, CAS: 67-64-1

Signal: 1

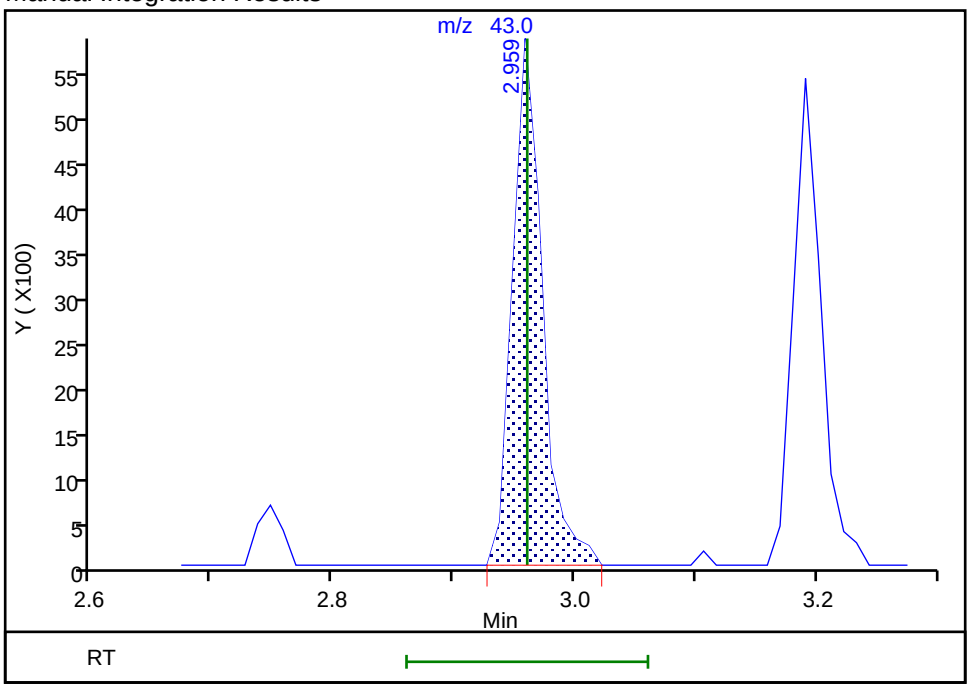
Processing Integration Results

RT: 2.96
Area: 9926
Amount: 1.910701
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 9926
Amount: 1.835879
Amount Units: ug/l



Reviewer: seifertj, 02-Jun-2020 08:04:00
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

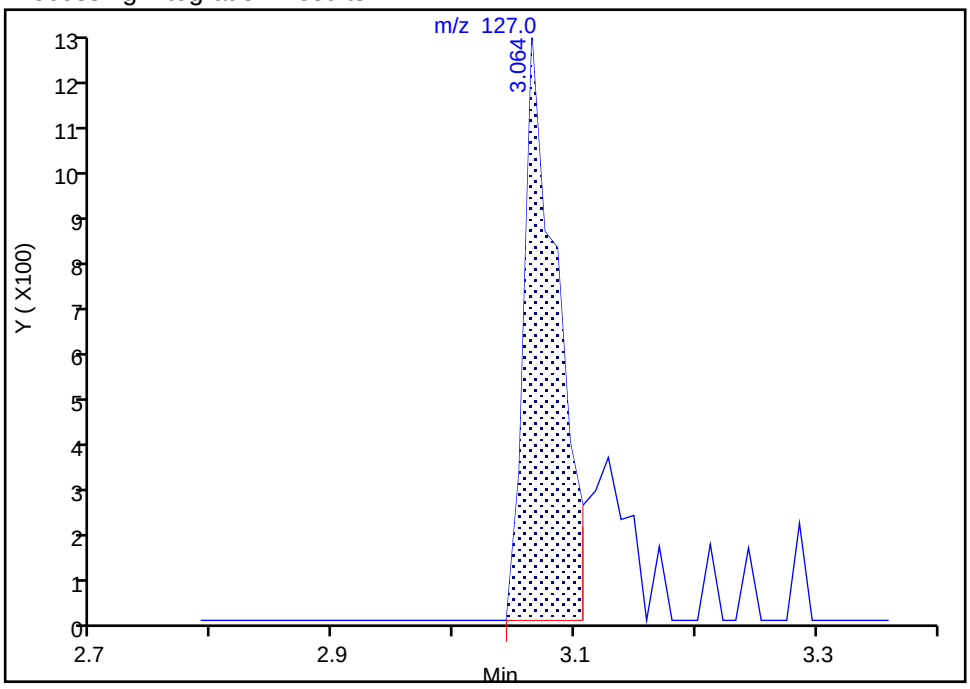
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

26 Iodomethane, CAS: 74-88-4

Signal: 2

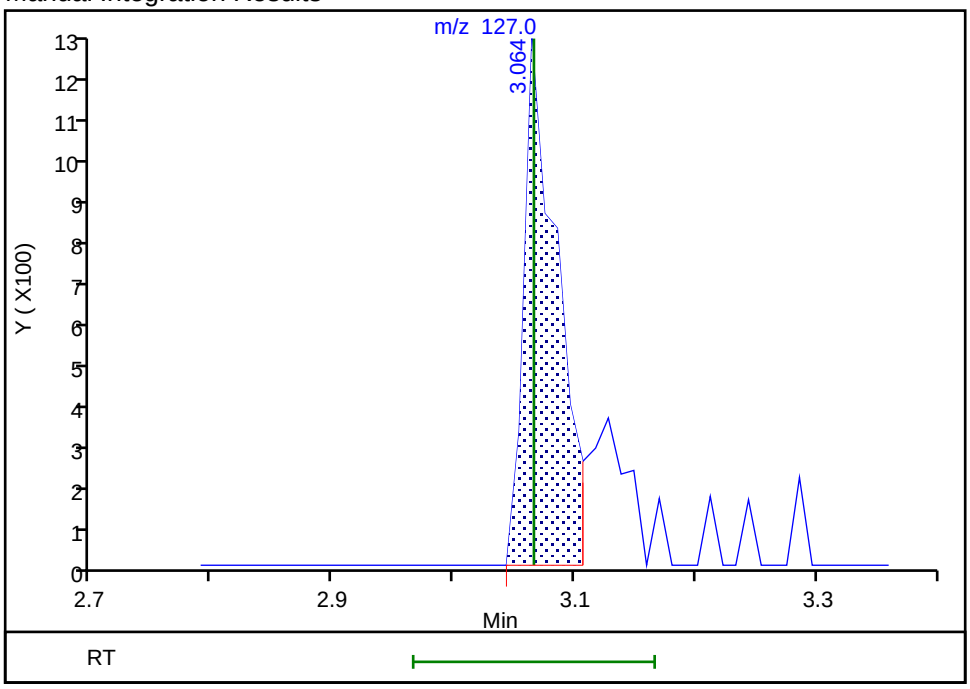
Processing Integration Results

RT: 3.06
Area: 2479
Amount: 0.870495
Amount Units: ug/l



Manual Integration Results

RT: 3.06
Area: 2479
Amount: 1.450023
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:43:13
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

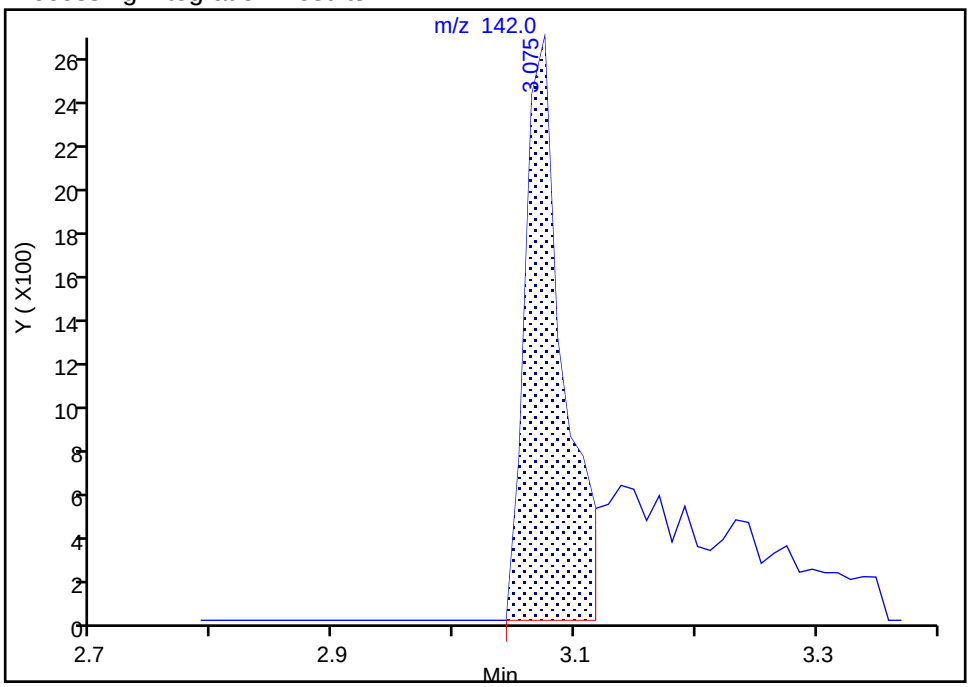
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

26 Iodomethane, CAS: 74-88-4

Signal: 1

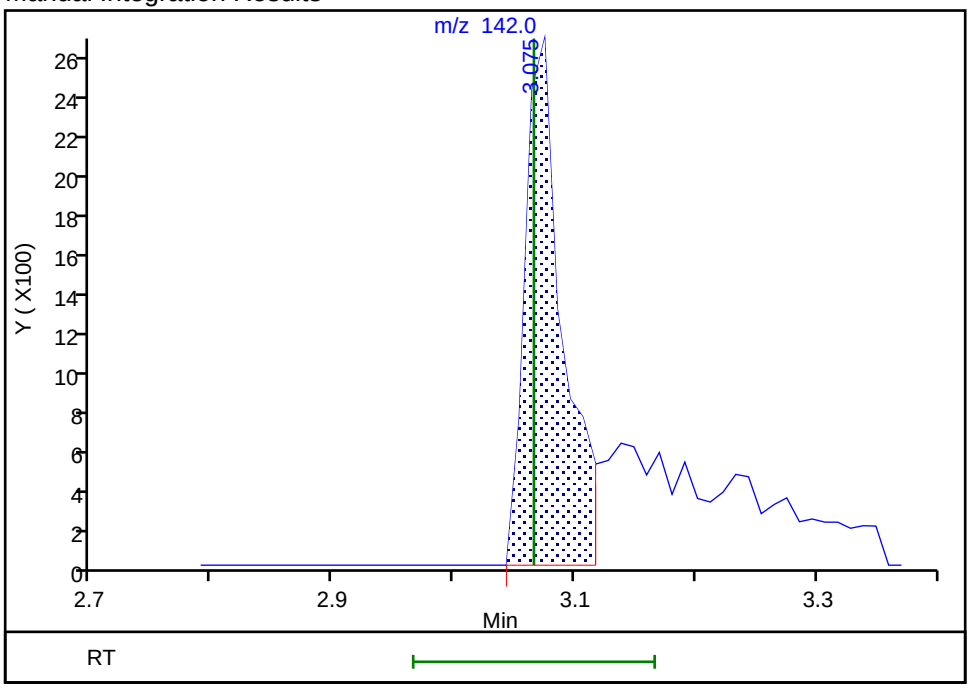
Processing Integration Results

RT: 3.07
Area: 5837
Amount: 0.870495
Amount Units: ug/l



Manual Integration Results

RT: 3.07
Area: 5837
Amount: 1.450023
Amount Units: ug/l



Reviewer: seifertj, 02-Jun-2020 08:04:06
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

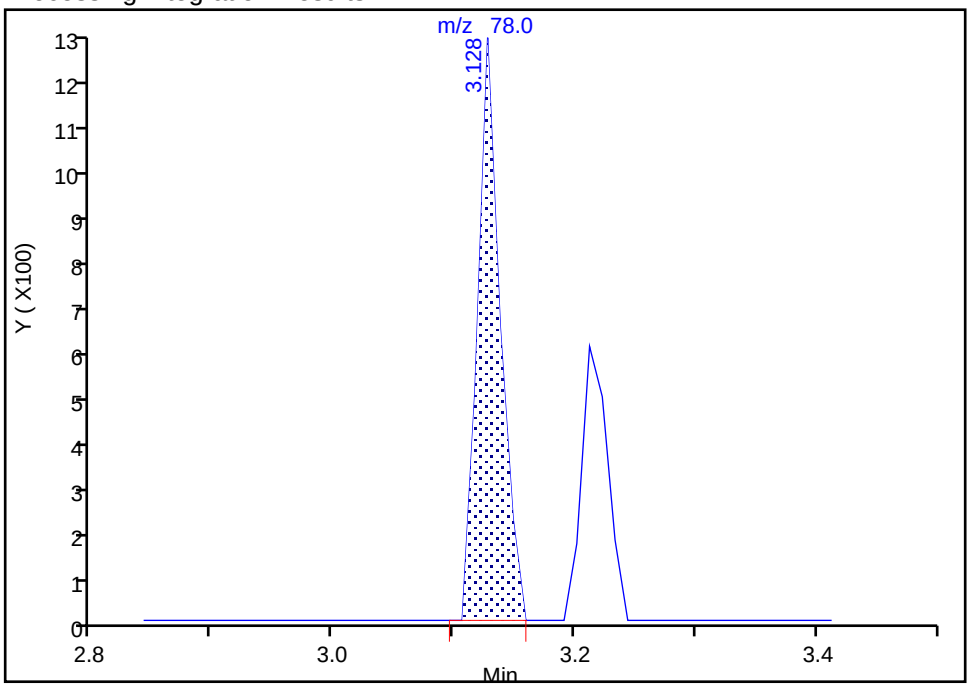
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

27 Carbon disulfide, CAS: 75-15-0

Signal: 2

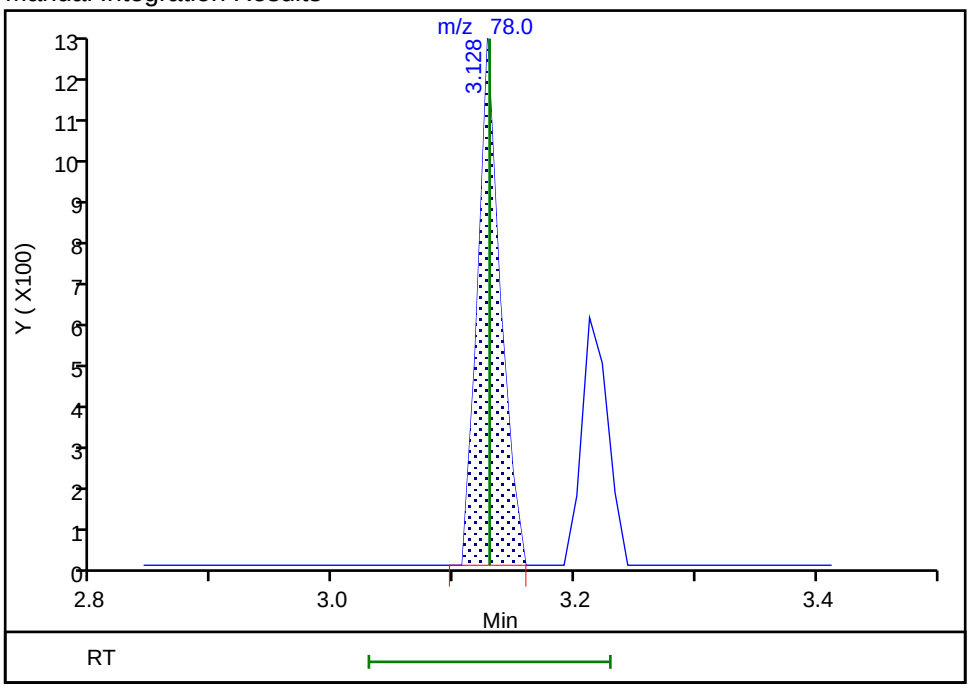
Processing Integration Results

RT: 3.13
Area: 1670
Amount: 0.543289
Amount Units: ug/l



Manual Integration Results

RT: 3.13
Area: 1670
Amount: 0.543289
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:52:39
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

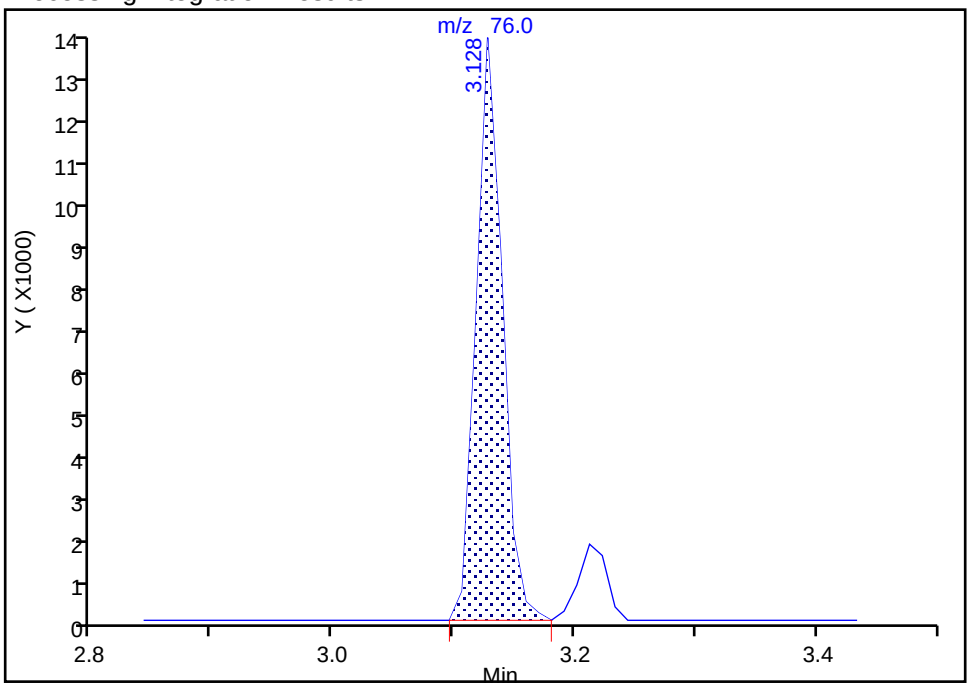
Data File:	\\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D				
Injection Date:	01-Jun-2020 16:26:30	Instrument ID:	VMS_P		
Lims ID:	STD005				
Client ID:					
Operator ID:	SEIFERTJ	ALS Bottle#:	1	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

27 Carbon disulfide, CAS: 75-15-0

Signal: 1

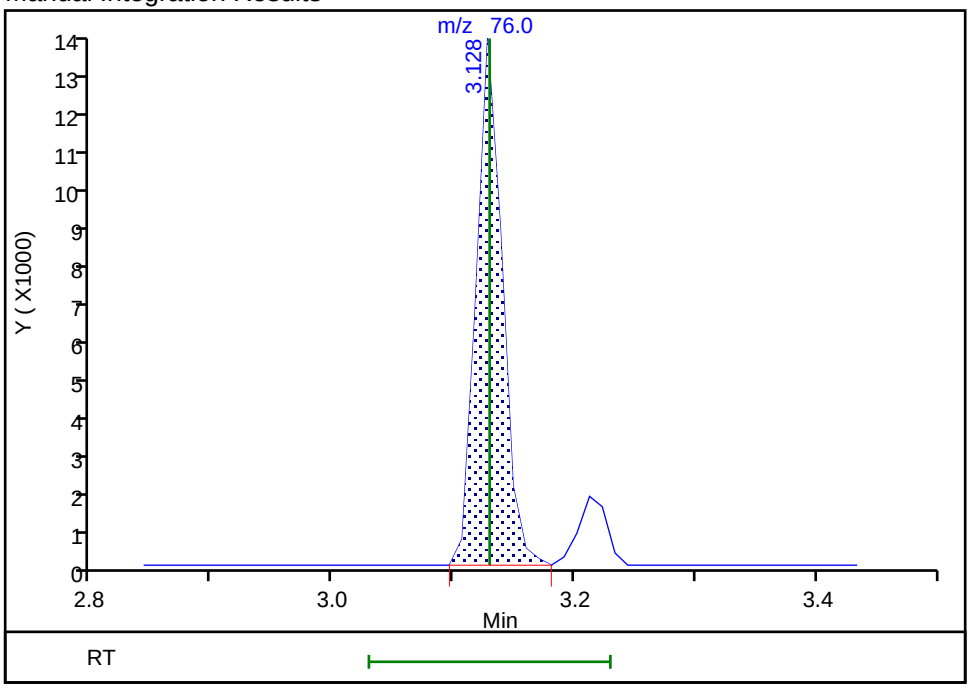
Processing Integration Results

RT: 3.13
Area: 19807
Amount: 0.543289
Amount Units: ug/l



Manual Integration Results

RT: 3.13
Area: 19807
Amount: 0.543289
Amount Units: ug/l



Reviewer: seifertj, 02-Jun-2020 08:04:14
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

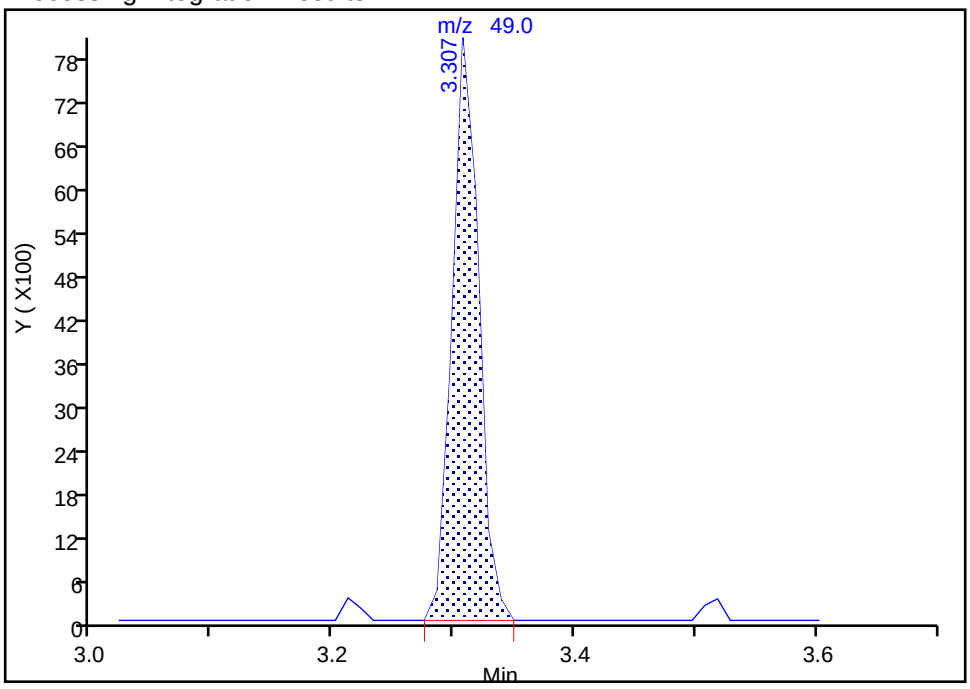
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

31 Methylene Chloride, CAS: 75-09-2

Signal: 2

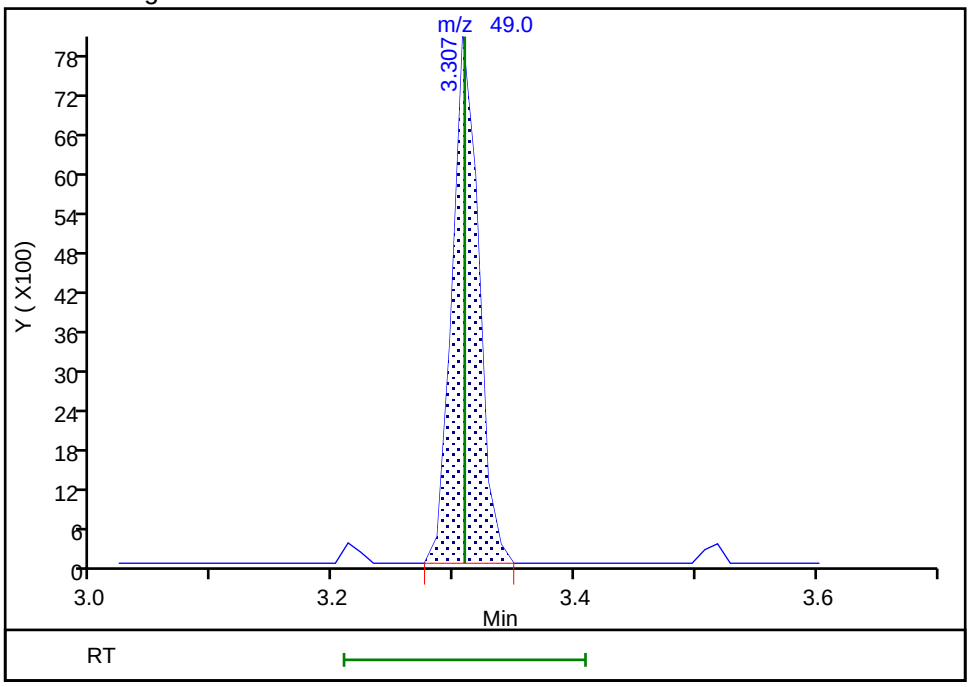
Processing Integration Results

RT: 3.31
Area: 12214
Amount: 0.538075
Amount Units: ug/l



Manual Integration Results

RT: 3.31
Area: 12214
Amount: 0.538075
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:52:51
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver

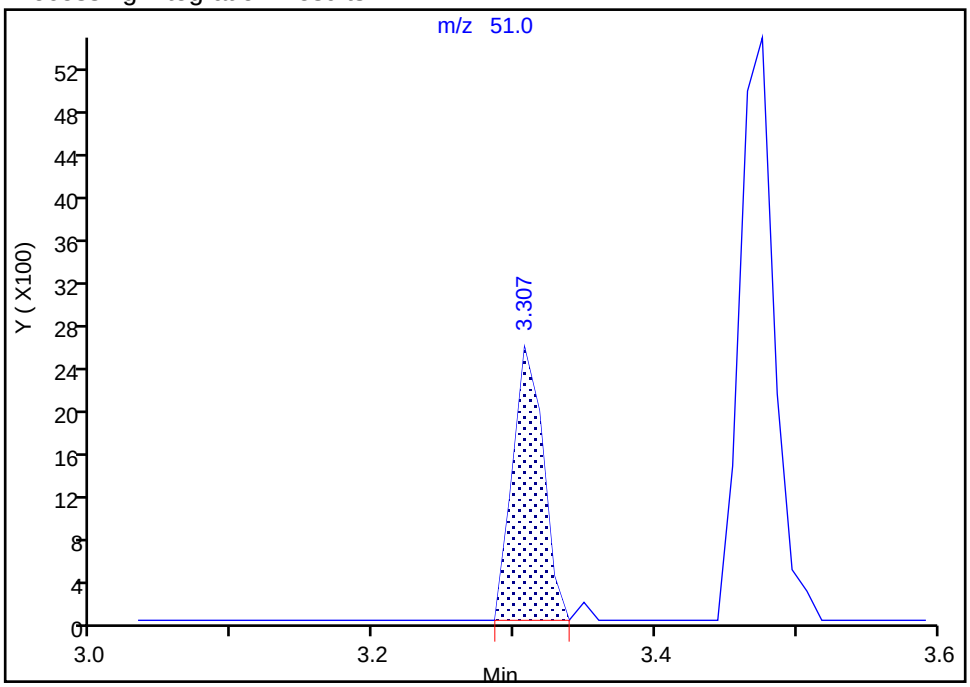
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

31 Methylene Chloride, CAS: 75-09-2

Signal: 3

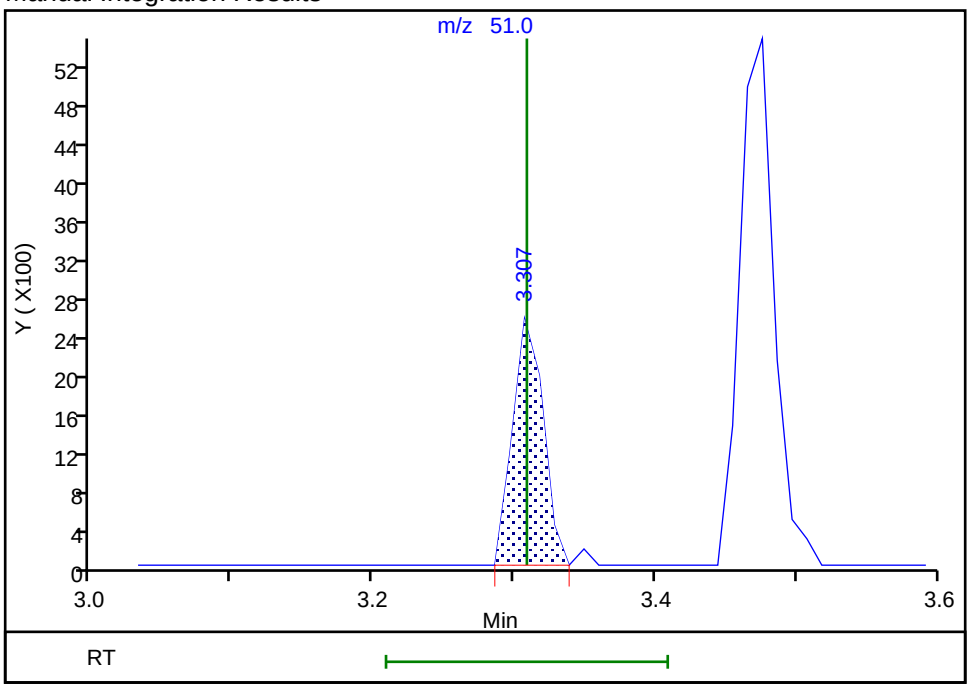
Processing Integration Results

RT: 3.31
Area: 3864
Amount: 0.538075
Amount Units: ug/l



Manual Integration Results

RT: 3.31
Area: 3864
Amount: 0.538075
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:52:51
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

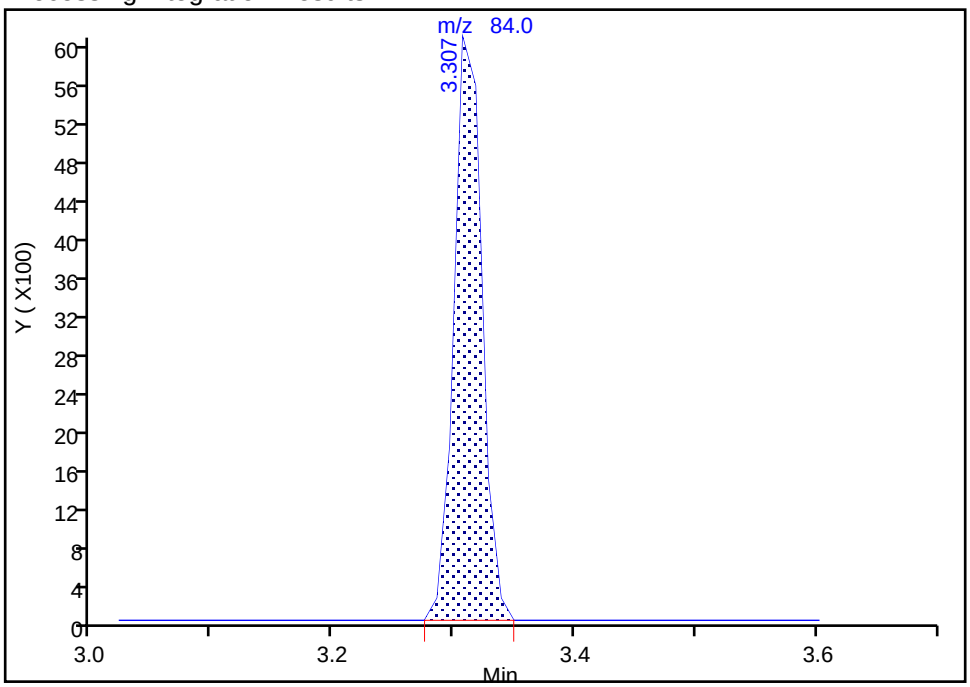
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

31 Methylene Chloride, CAS: 75-09-2

Signal: 1

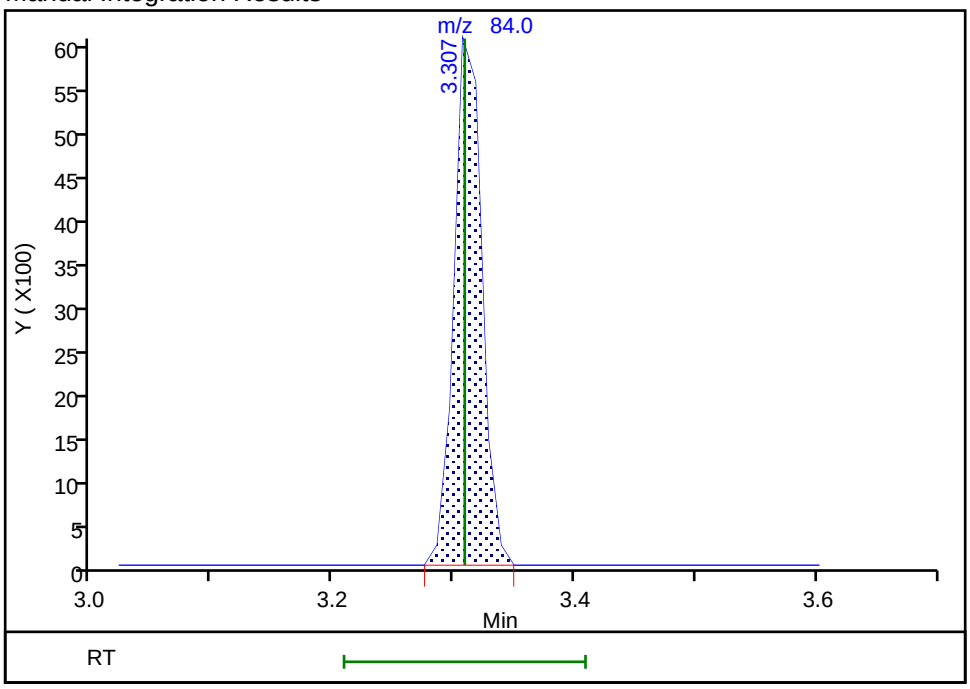
Processing Integration Results

RT: 3.31
Area: 9706
Amount: 0.538075
Amount Units: ug/l



Manual Integration Results

RT: 3.31
Area: 9706
Amount: 0.538075
Amount Units: ug/l



Reviewer: seifertj, 02-Jun-2020 08:04:20
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

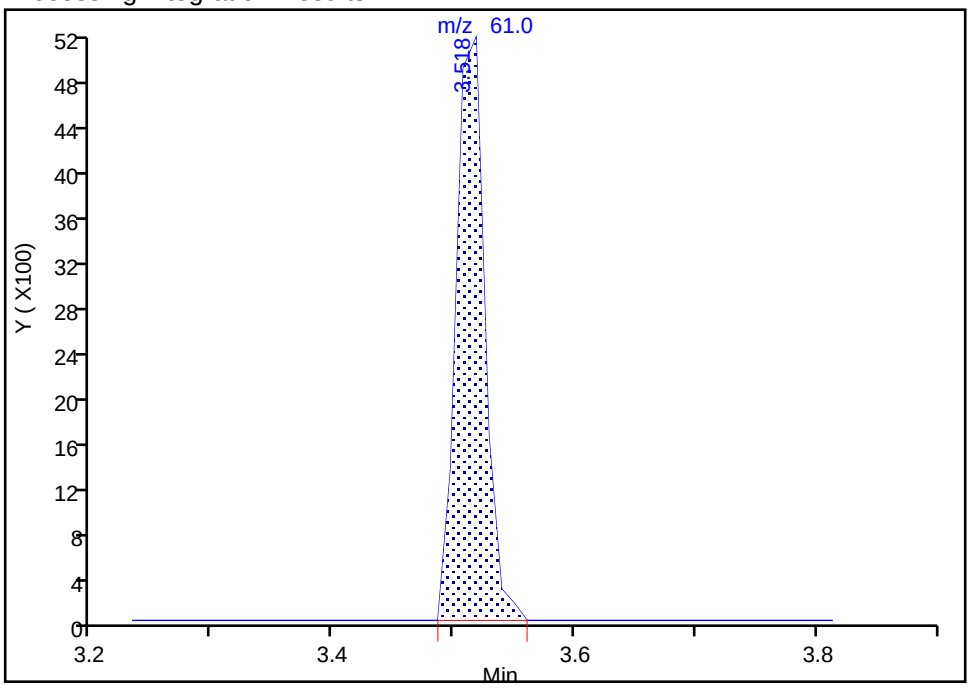
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

35 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 2

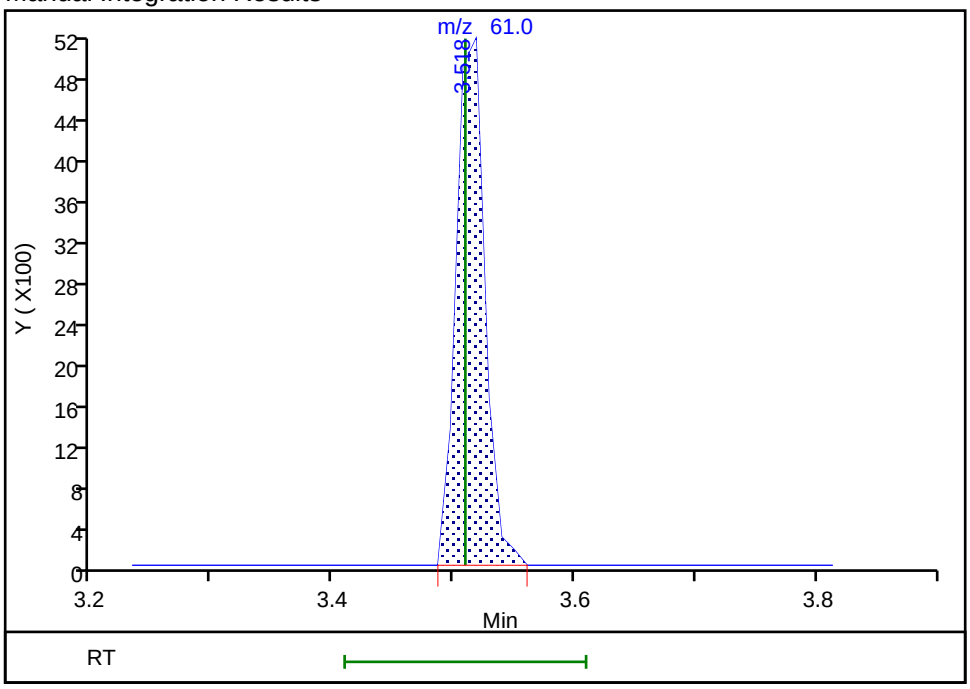
Processing Integration Results

RT: 3.52
Area: 8533
Amount: 0.613827
Amount Units: ug/l



Manual Integration Results

RT: 3.52
Area: 8533
Amount: 0.613827
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:43:21
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

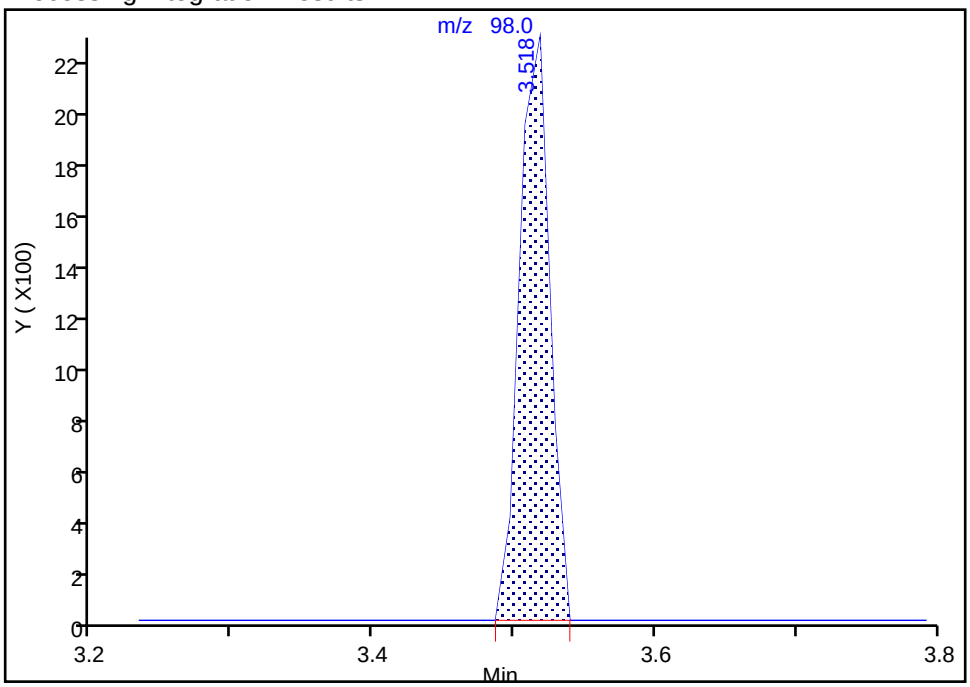
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

35 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 3

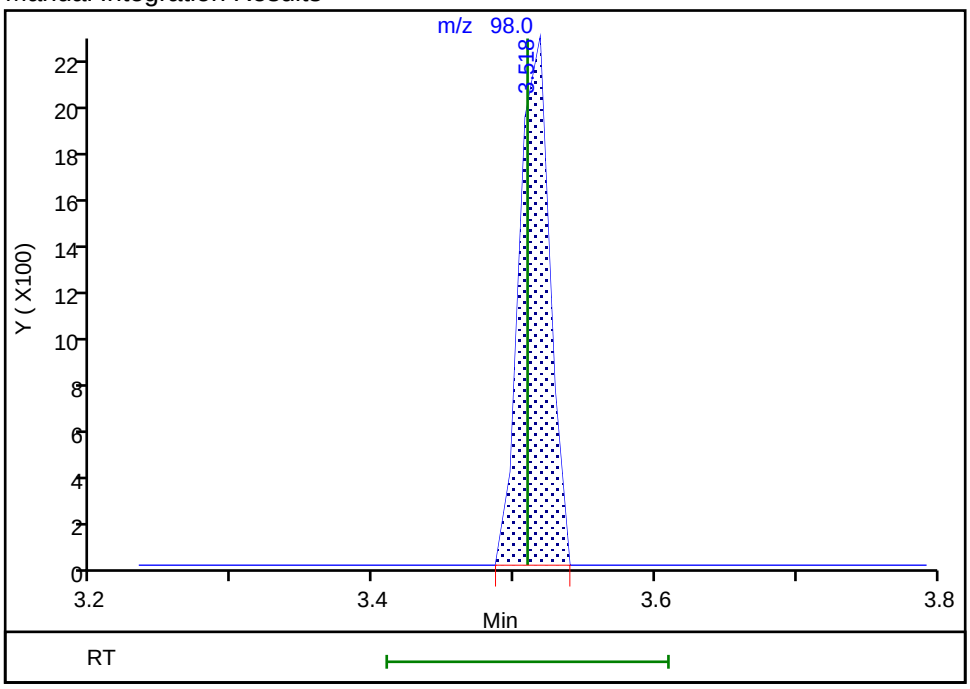
Processing Integration Results

RT: 3.52
Area: 3414
Amount: 0.613827
Amount Units: ug/l



Manual Integration Results

RT: 3.52
Area: 3414
Amount: 0.613827
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:43:21
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

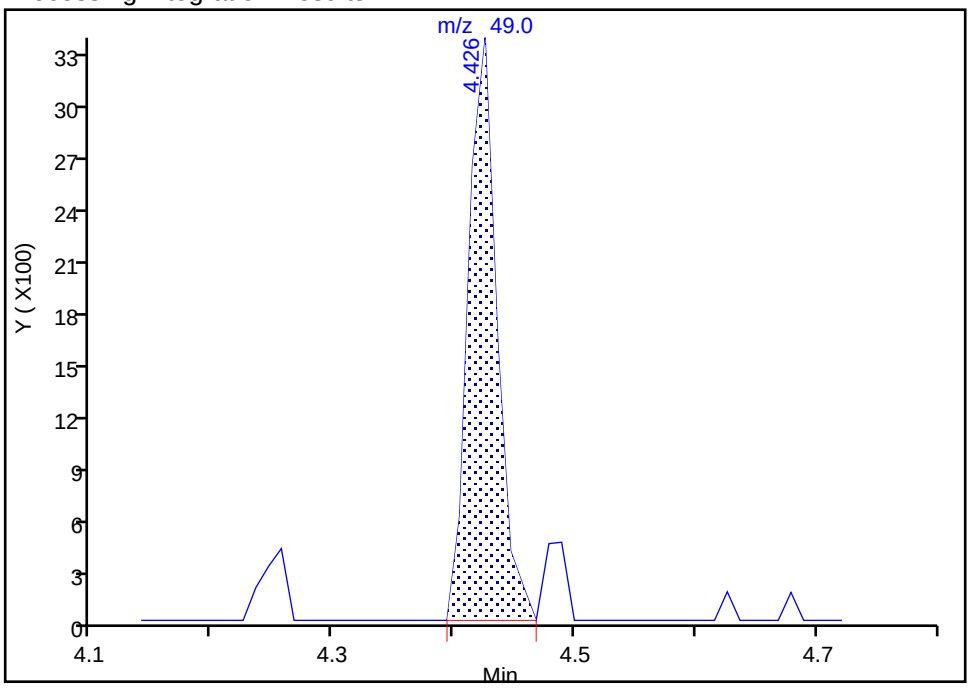
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

53 Chlorobromomethane, CAS: 74-97-5

Signal: 2

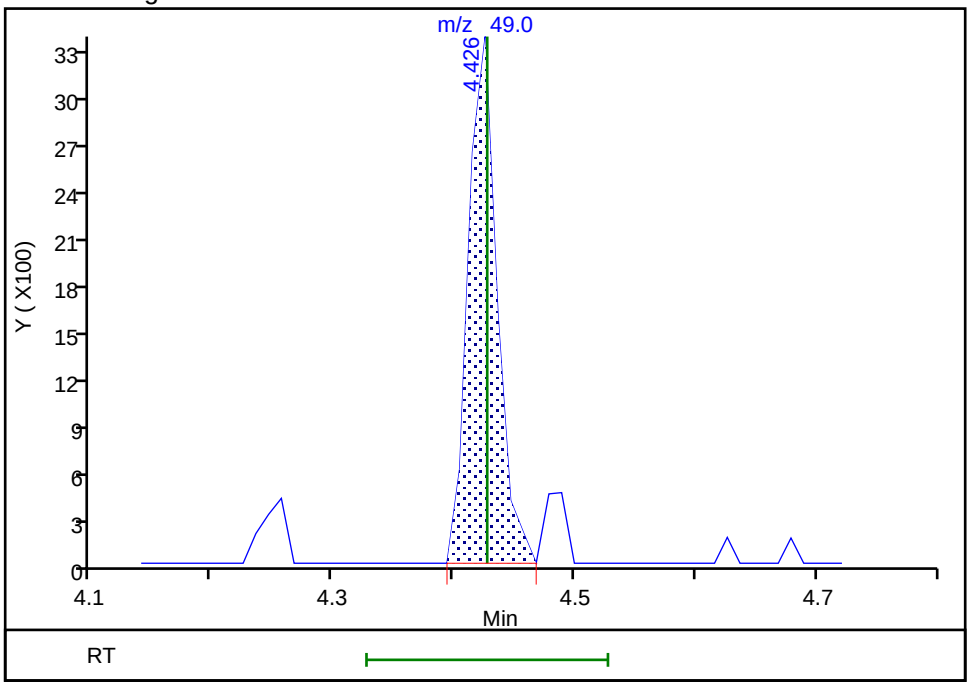
RT: 4.43
Area: 5484
Amount: 0.579310
Amount Units: ug/l

Processing Integration Results



Manual Integration Results

RT: 4.43
Area: 5484
Amount: 0.579310
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:43:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

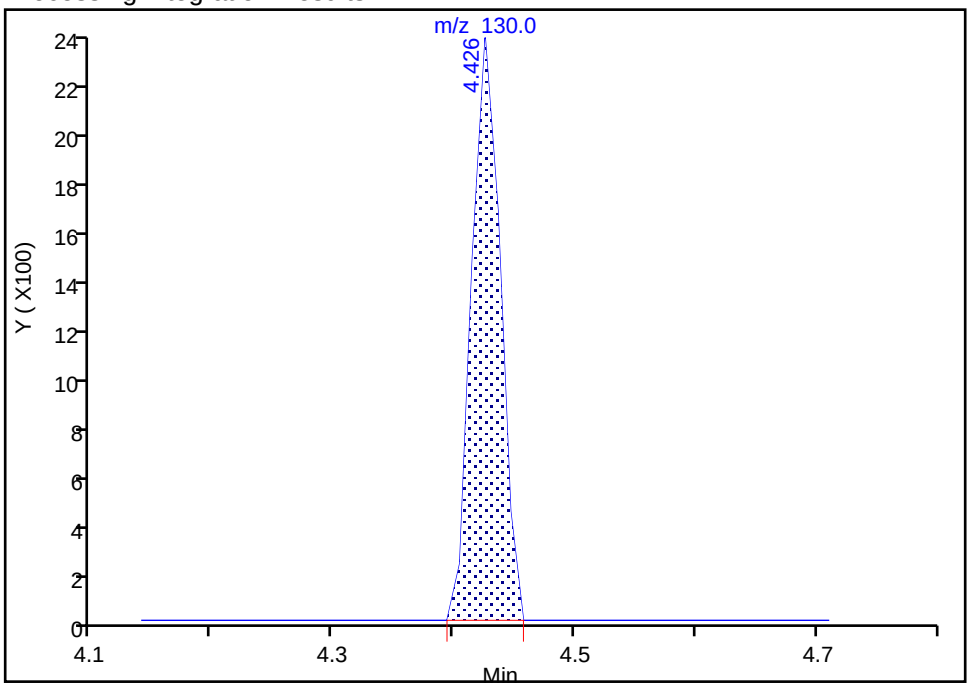
Data File:	\\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D				
Injection Date:	01-Jun-2020 16:26:30	Instrument ID:	VMS_P		
Lims ID:	STD005				
Client ID:					
Operator ID:	SEIFERTJ	ALS Bottle#:	1	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

53 Chlorobromomethane, CAS: 74-97-5

Signal: 3

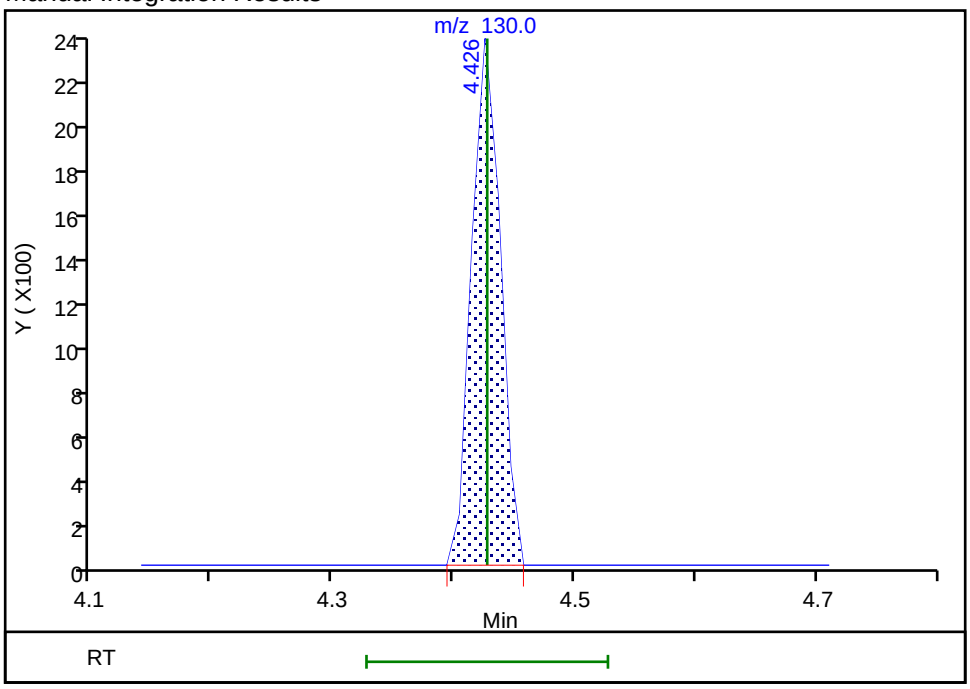
Processing Integration Results

RT: 4.43
Area: 3865
Amount: 0.579310
Amount Units: ug/l



Manual Integration Results

RT: 4.43
Area: 3865
Amount: 0.579310
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:43:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

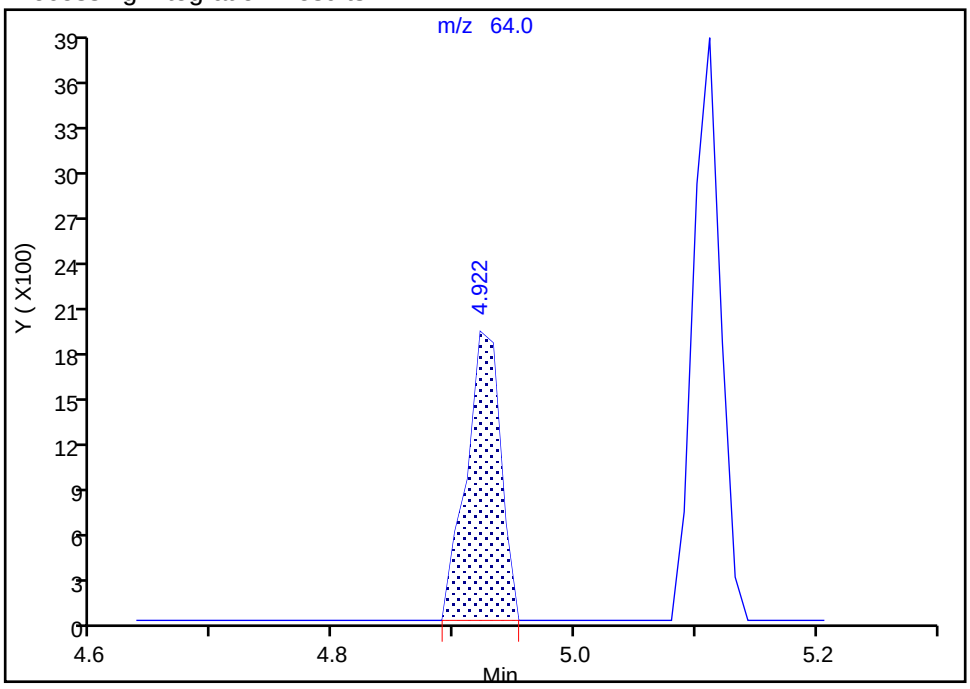
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

61 1,2-Dichloroethane, CAS: 107-06-2

Signal: 2

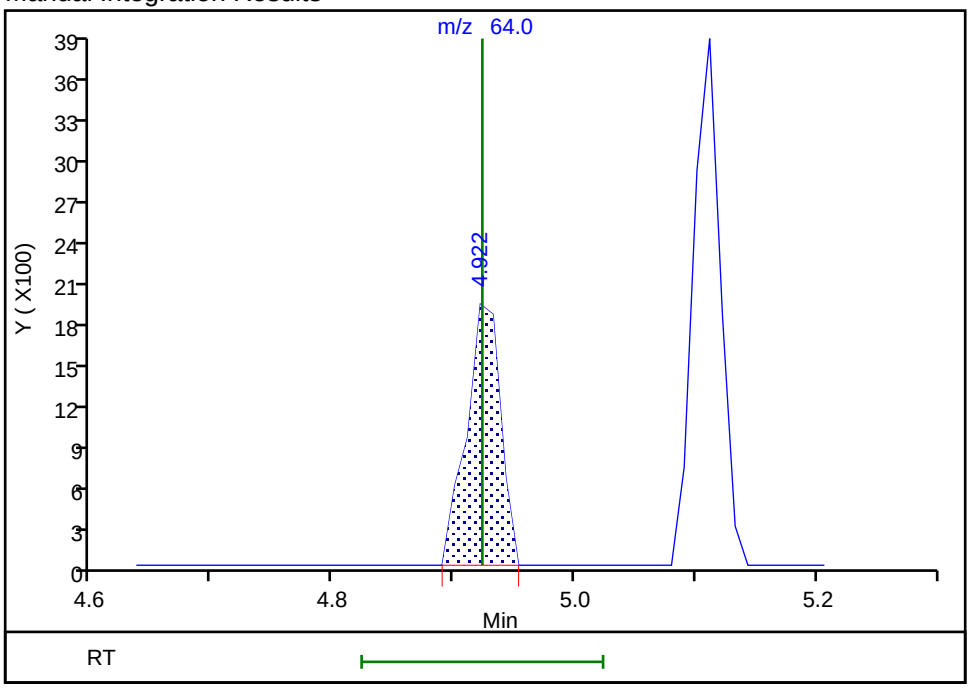
Processing Integration Results

RT: 4.92
Area: 3752
Amount: 0.492521
Amount Units: ug/l



Manual Integration Results

RT: 4.92
Area: 3752
Amount: 0.492521
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:53:41
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

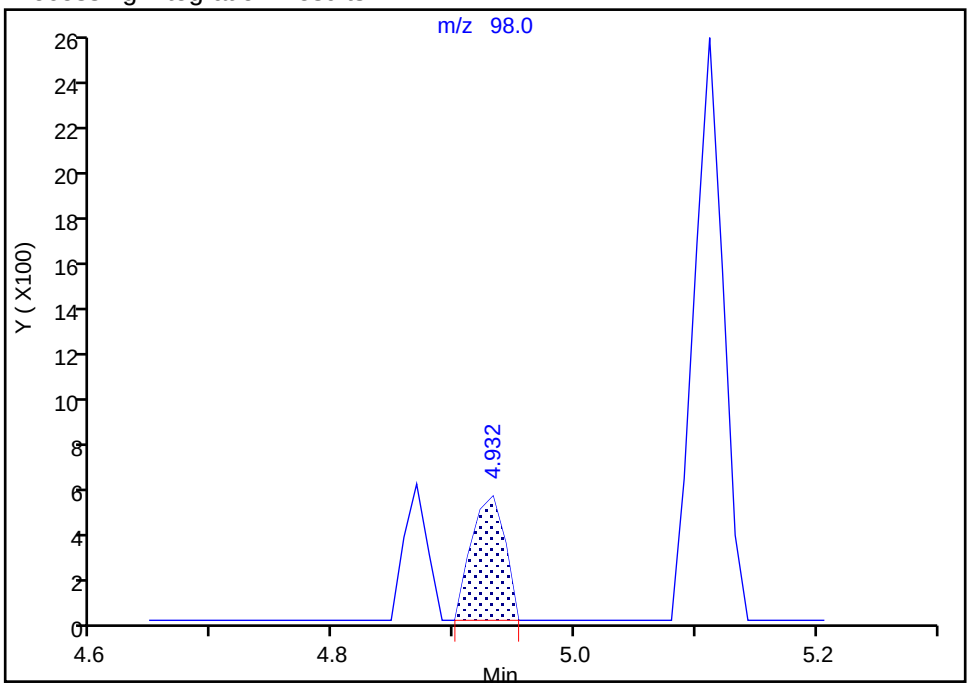
Data File:	\\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D				
Injection Date:	01-Jun-2020 16:26:30	Instrument ID:	VMS_P		
Lims ID:	STD005				
Client ID:					
Operator ID:	SEIFERTJ	ALS Bottle#:	1	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

61 1,2-Dichloroethane, CAS: 107-06-2

Signal: 3

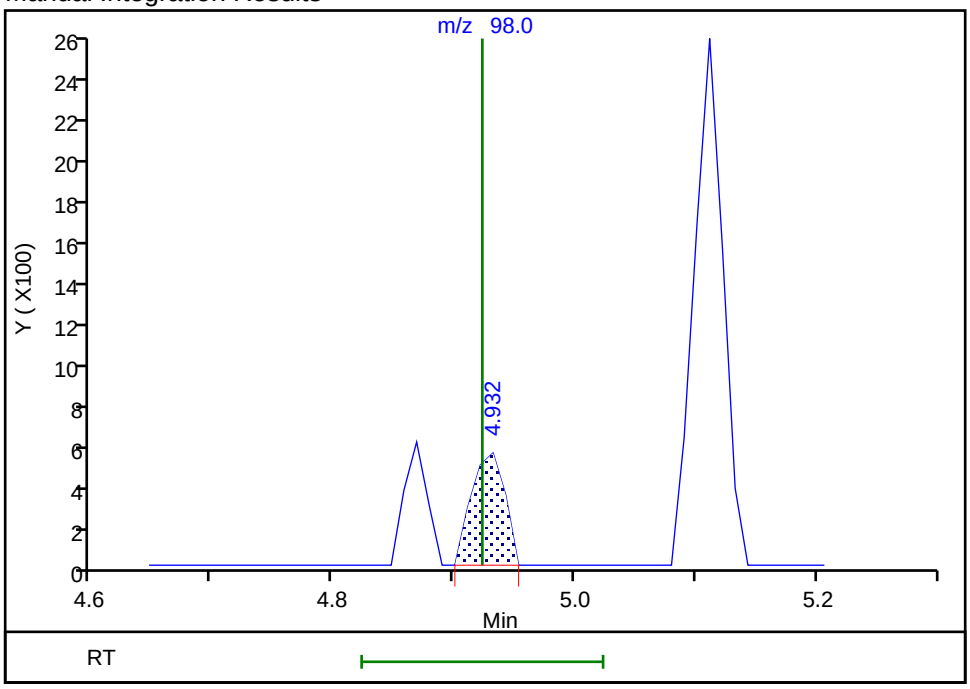
Processing Integration Results

RT: 4.93
Area: 1057
Amount: 0.492521
Amount Units: ug/l



Manual Integration Results

RT: 4.93
Area: 1057
Amount: 0.492521
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:53:41
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

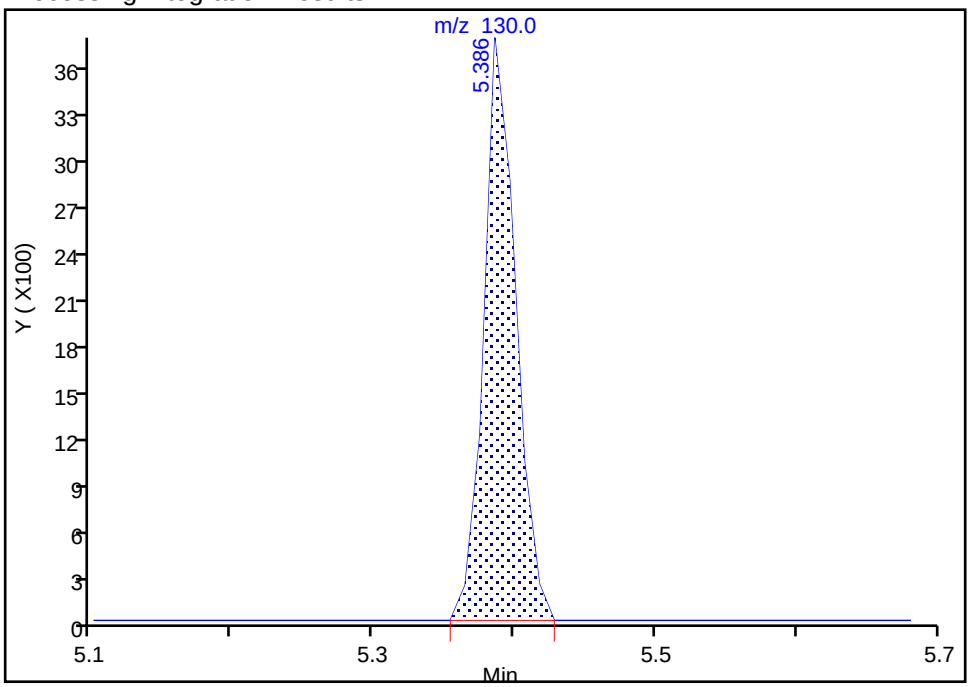
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

67 Trichloroethene, CAS: 79-01-6

Signal: 2

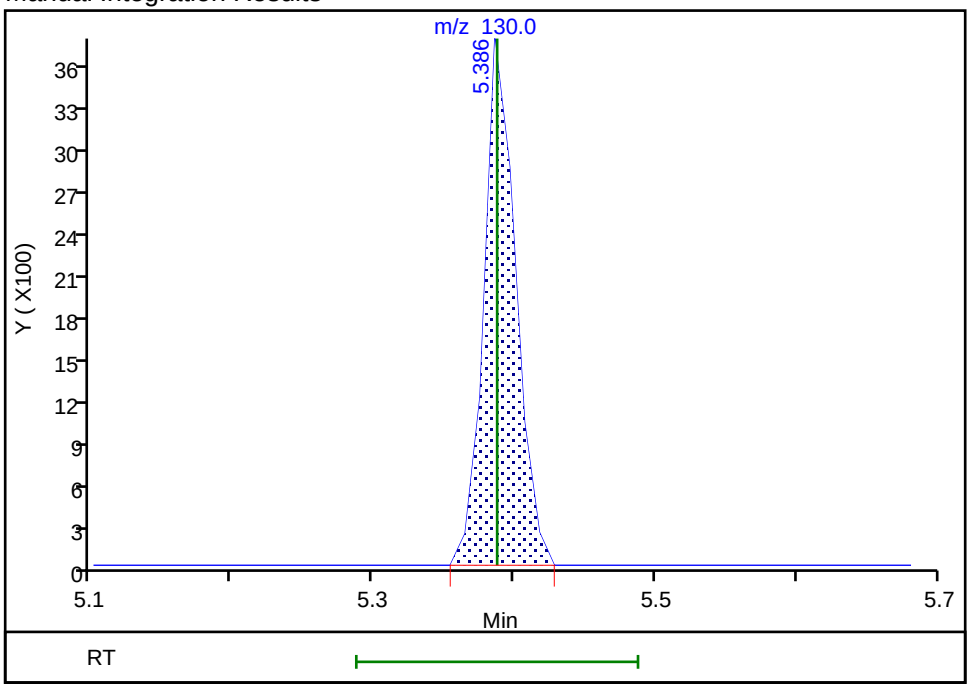
Processing Integration Results

RT: 5.39
Area: 5848
Amount: 0.603840
Amount Units: ug/l



Manual Integration Results

RT: 5.39
Area: 5848
Amount: 0.603840
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:43:29
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

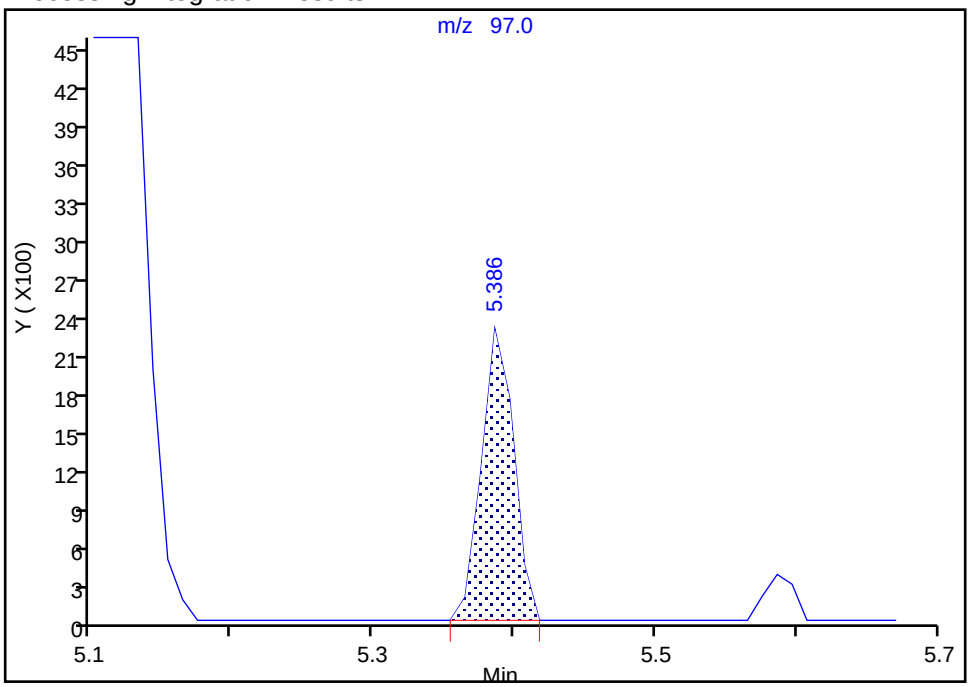
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

67 Trichloroethene, CAS: 79-01-6

Signal: 3

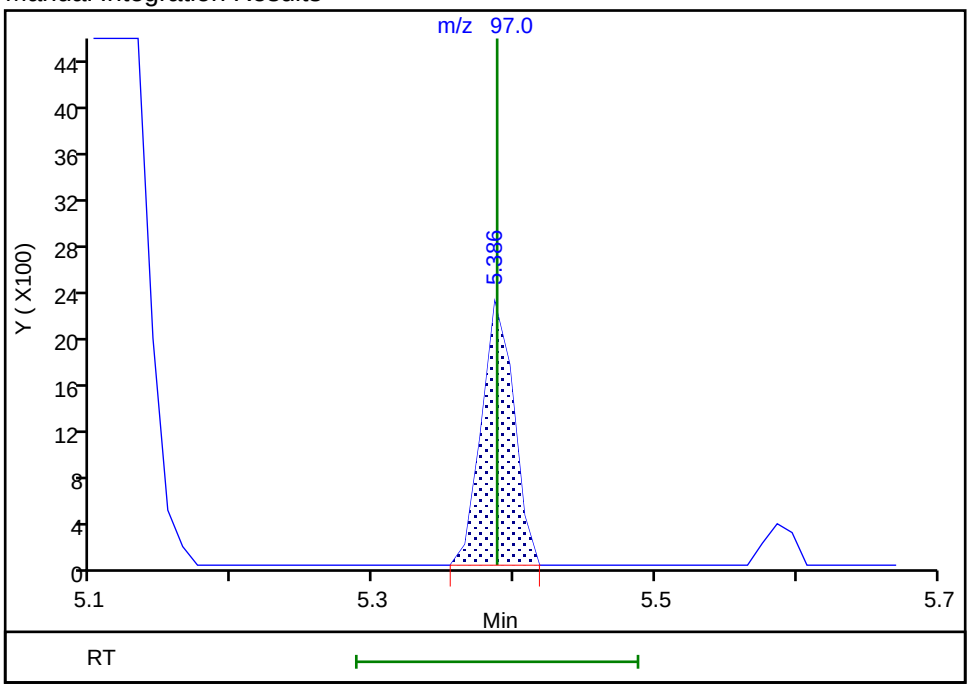
Processing Integration Results

RT: 5.39
Area: 3641
Amount: 0.603840
Amount Units: ug/l



Manual Integration Results

RT: 5.39
Area: 3641
Amount: 0.603840
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:43:29
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

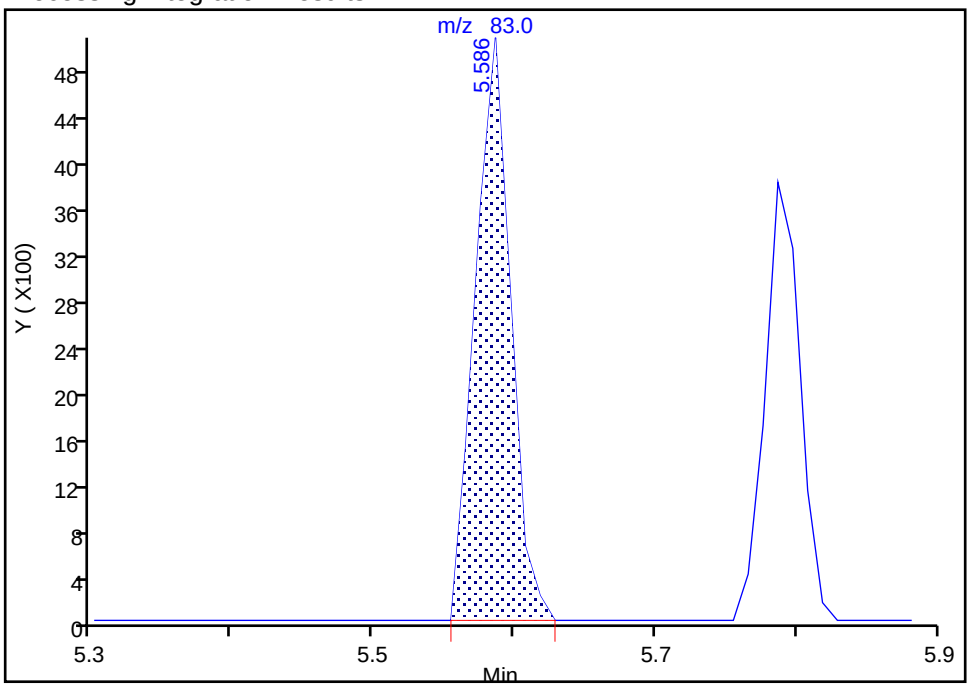
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

69 Methylcyclohexane, CAS: 108-87-2

Signal: 2

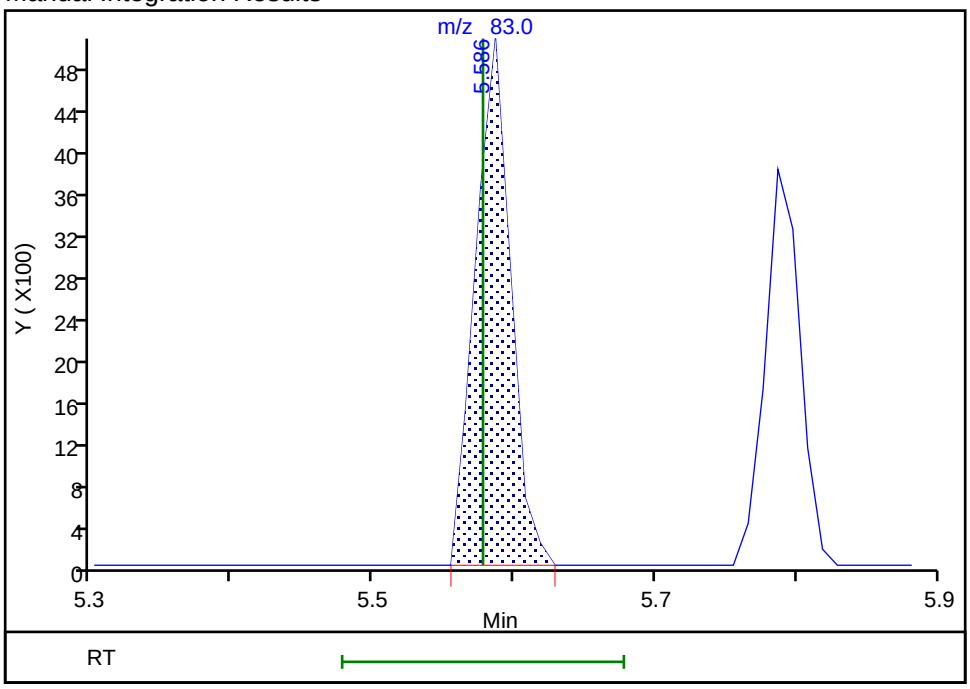
Processing Integration Results

RT: 5.59
Area: 8849
Amount: 0.563143
Amount Units: ug/l



Manual Integration Results

RT: 5.59
Area: 8849
Amount: 0.563143
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:43:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

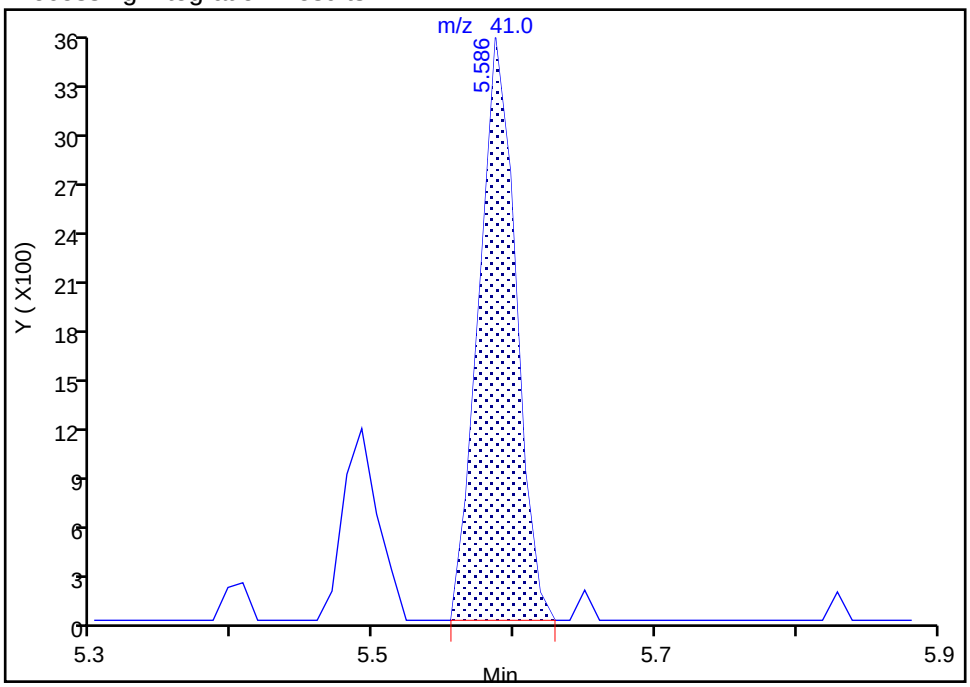
Data File:	\\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D				
Injection Date:	01-Jun-2020 16:26:30	Instrument ID:	VMS_P		
Lims ID:	STD005				
Client ID:					
Operator ID:	SEIFERTJ	ALS Bottle#:	1	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

69 Methylcyclohexane, CAS: 108-87-2

Signal: 3

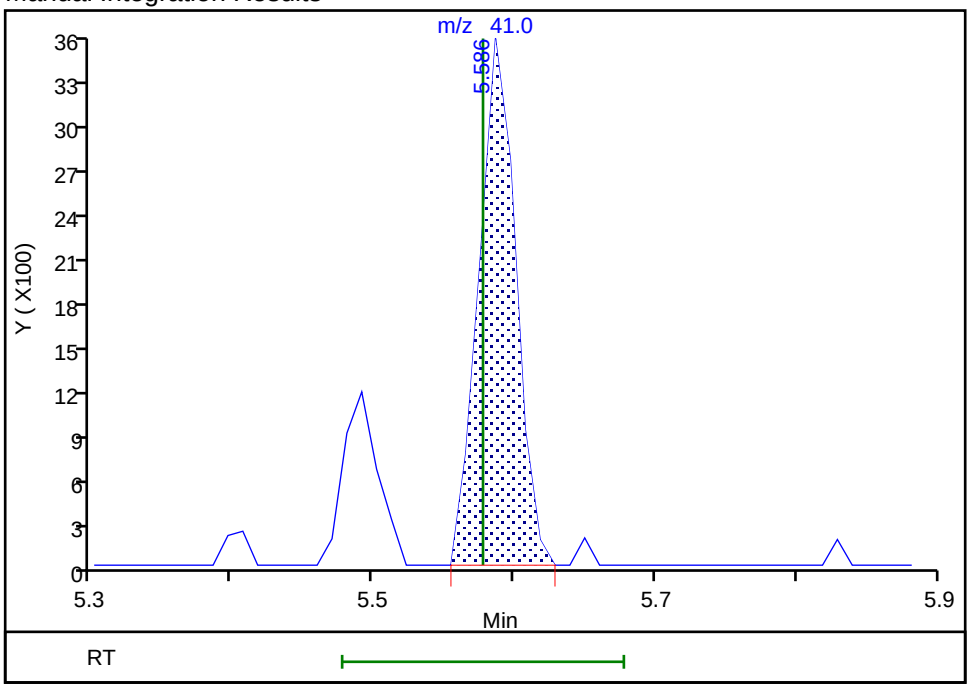
Processing Integration Results

RT: 5.59
Area: 6507
Amount: 0.563143
Amount Units: ug/l



Manual Integration Results

RT: 5.59
Area: 6507
Amount: 0.563143
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:43:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

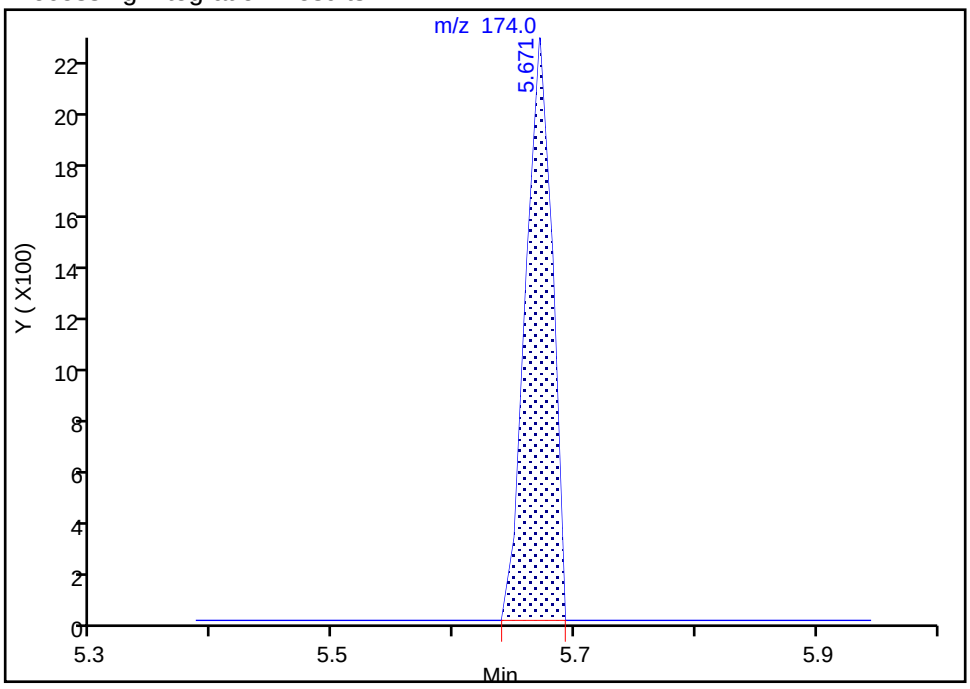
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

73 Dibromomethane, CAS: 74-95-3

Signal: 2

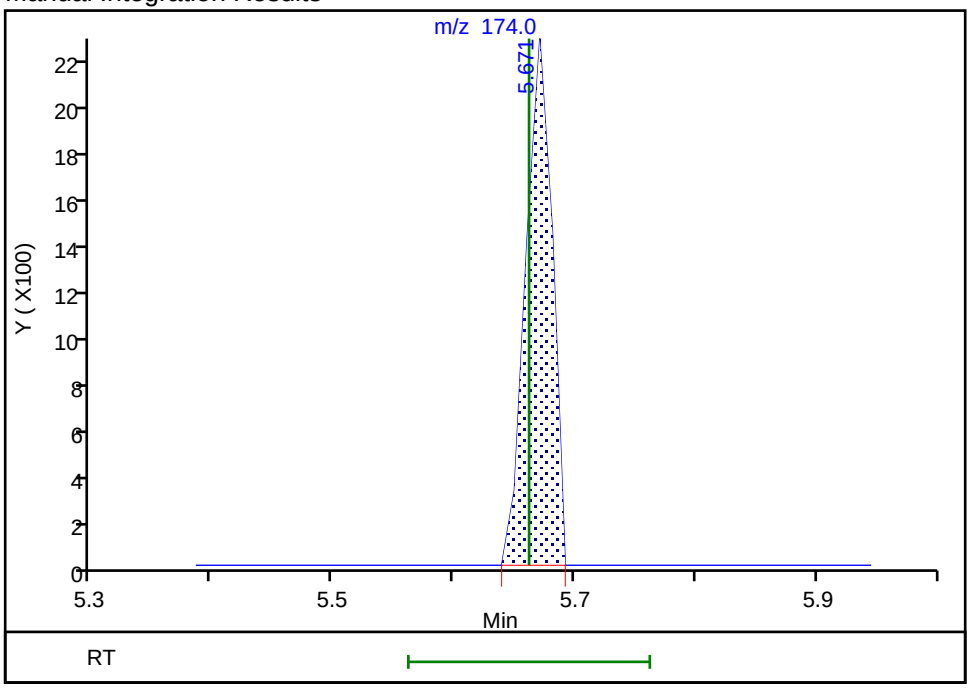
Processing Integration Results

RT: 5.67
Area: 3416
Amount: 0.651614
Amount Units: ug/l



Manual Integration Results

RT: 5.67
Area: 3416
Amount: 0.677285
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:43:32
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D

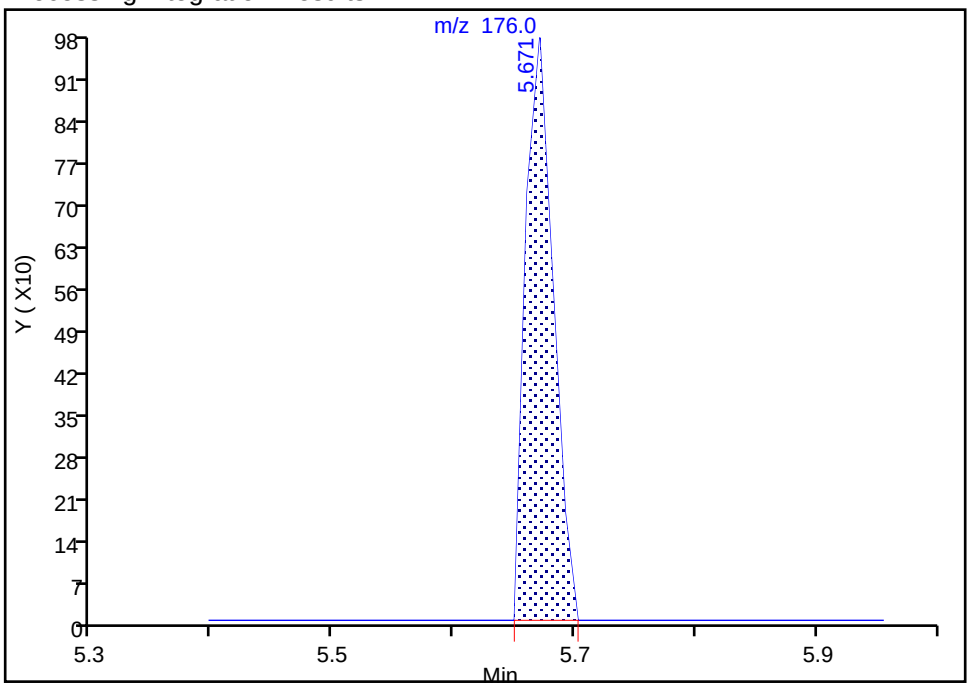
Injection Date:	01-Jun-2020 16:26:30	Instrument ID:	VMS_P		
Lims ID:	STD005				
Client ID:					
Operator ID:	SEIFERTJ	ALS Bottle#:	1	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

73 Dibromomethane, CAS: 74-95-3

Signal: 3

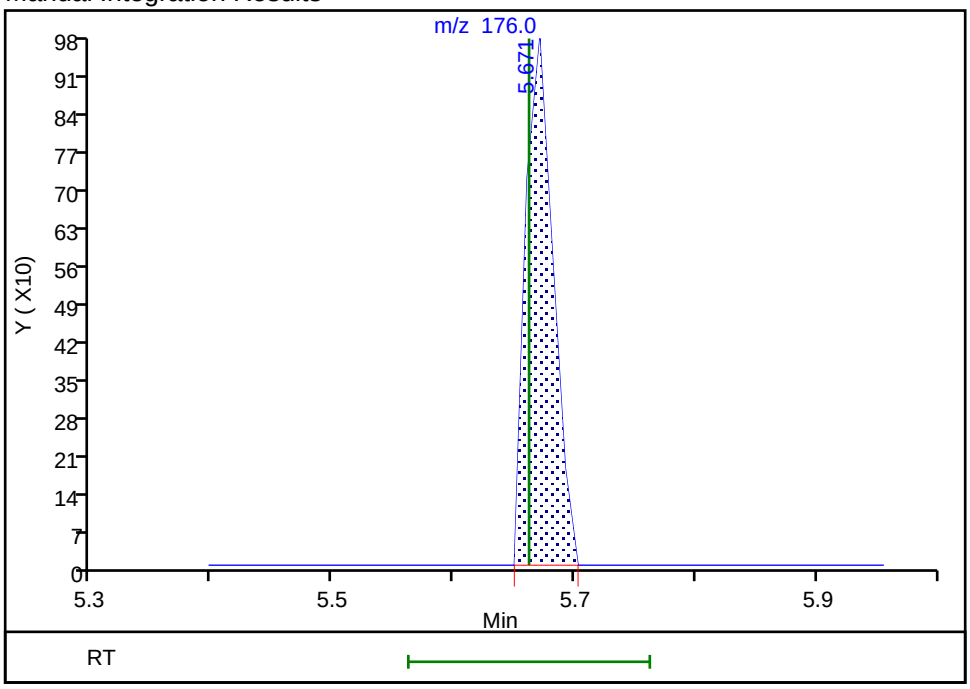
Processing Integration Results

RT: 5.67
Area: 1549
Amount: 0.651614
Amount Units: ug/l



Manual Integration Results

RT: 5.67
Area: 1549
Amount: 0.677285
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:43:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

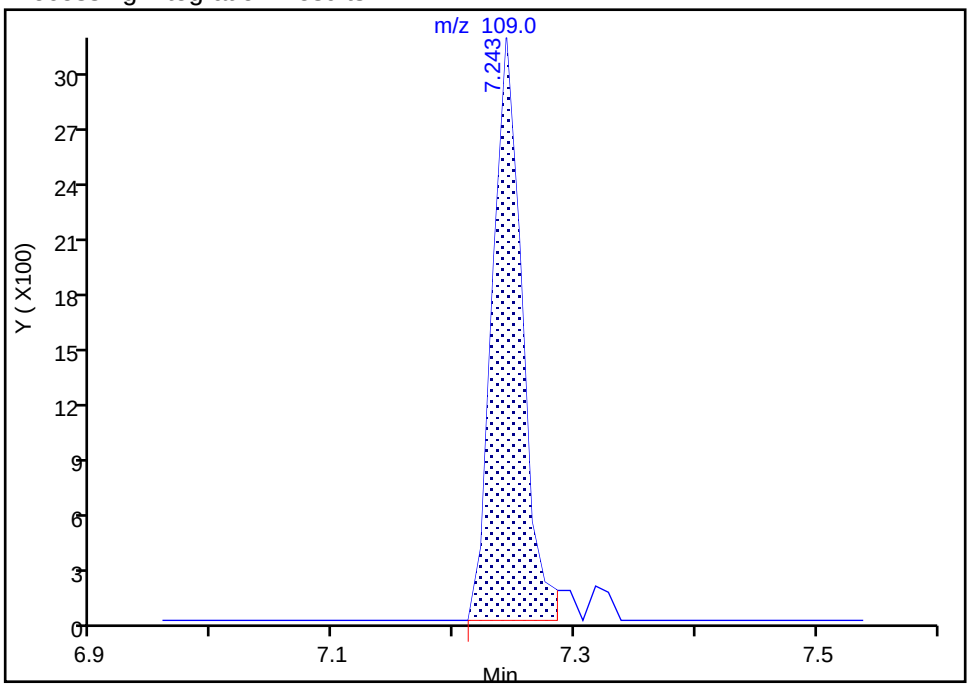
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

88 Ethylene Dibromide, CAS: 106-93-4

Signal: 2

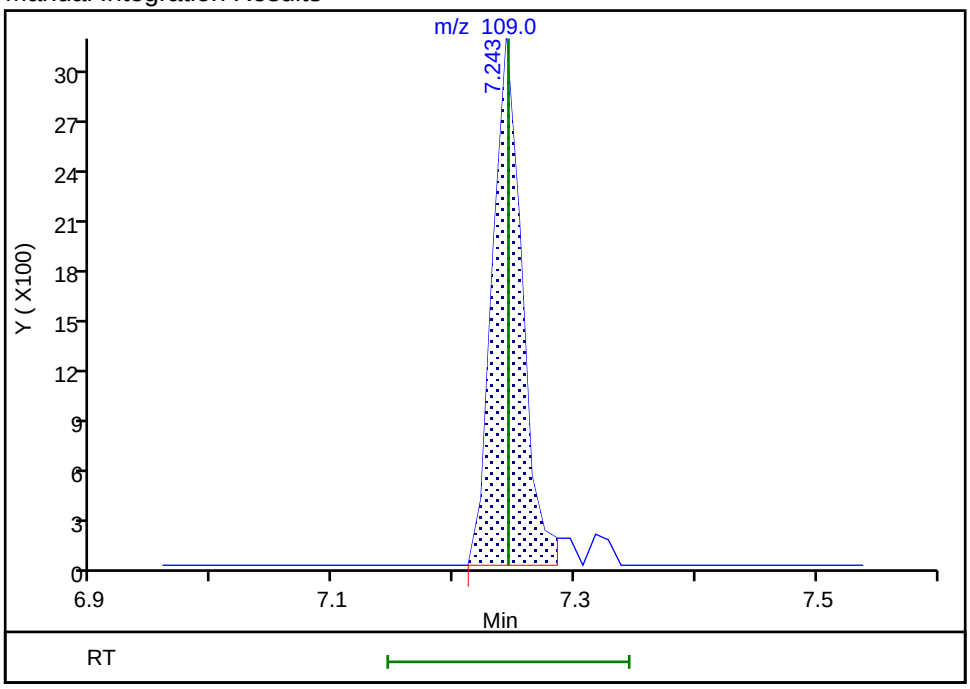
Processing Integration Results

RT: 7.24
Area: 5416
Amount: 0.593181
Amount Units: ug/l



Manual Integration Results

RT: 7.24
Area: 5416
Amount: 0.593181
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:43:54
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

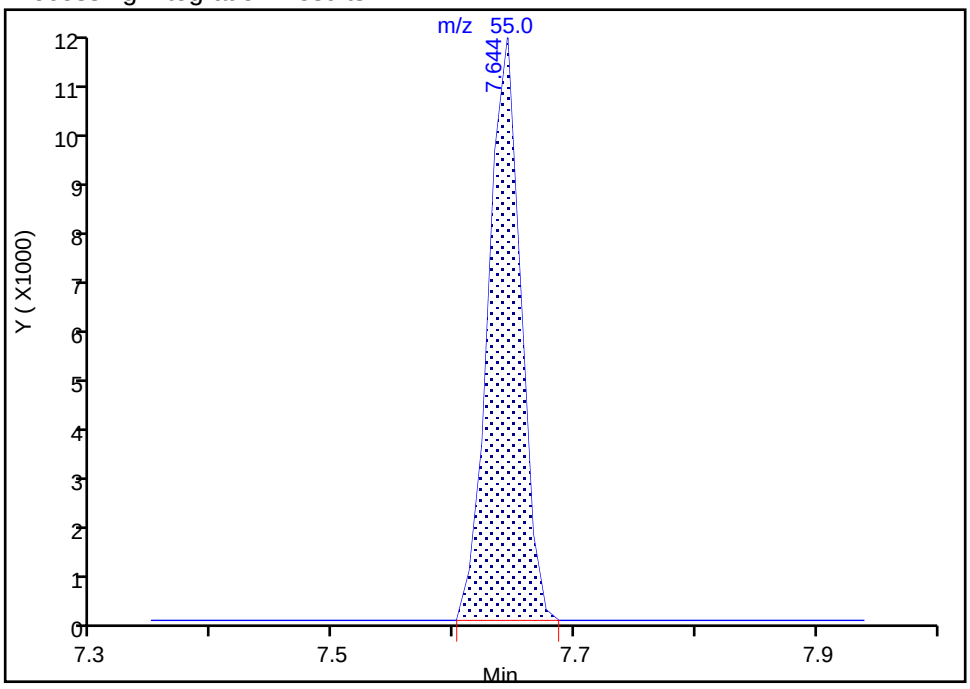
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

89 1-Chlorohexane, CAS: 544-10-5

Signal: 2

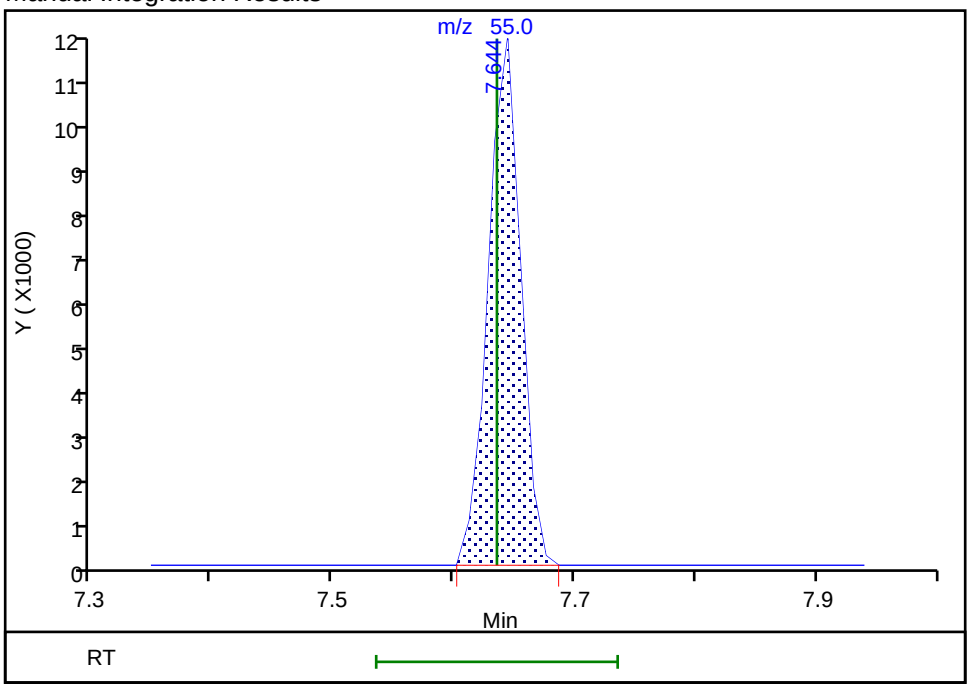
Processing Integration Results

RT: 7.64
Area: 22259
Amount: 0.501364
Amount Units: ug/l



Manual Integration Results

RT: 7.64
Area: 22259
Amount: 0.501364
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:54:52
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

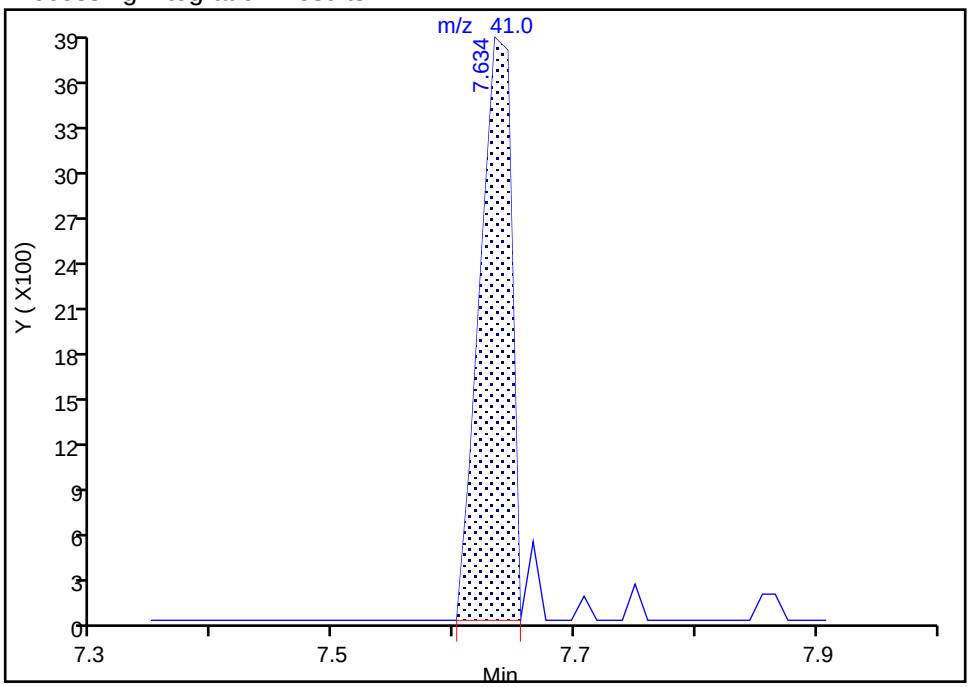
Data File:	\\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D				
Injection Date:	01-Jun-2020 16:26:30	Instrument ID:	VMS_P		
Lims ID:	STD005				
Client ID:					
Operator ID:	SEIFERTJ	ALS Bottle#:	1	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

89 1-Chlorohexane, CAS: 544-10-5

Signal: 3

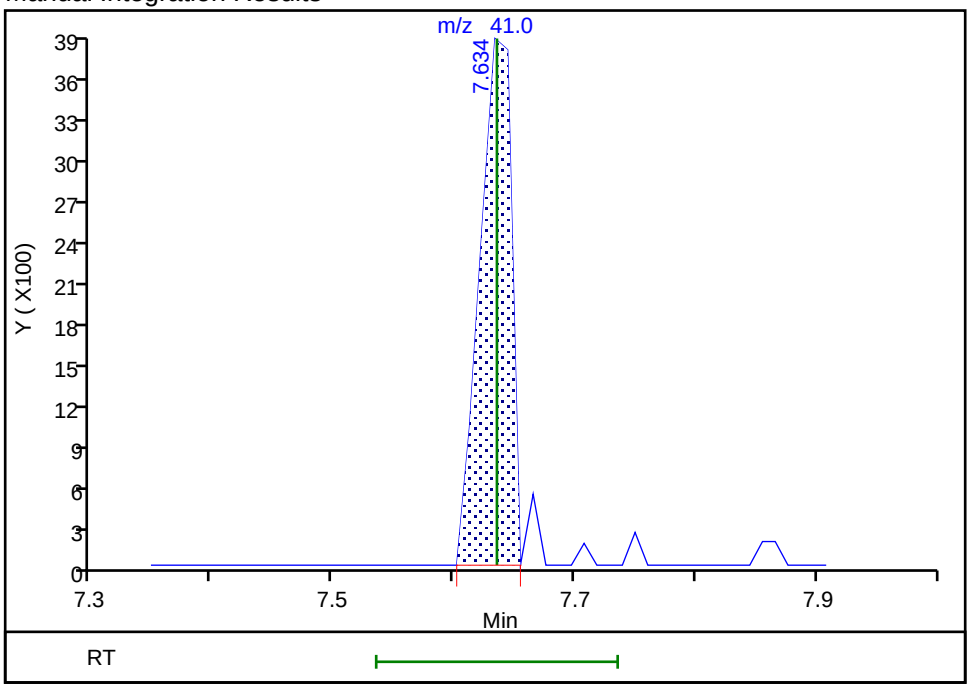
Processing Integration Results

RT: 7.63
Area: 6954
Amount: 0.501364
Amount Units: ug/l



Manual Integration Results

RT: 7.63
Area: 6954
Amount: 0.501364
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:54:52
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

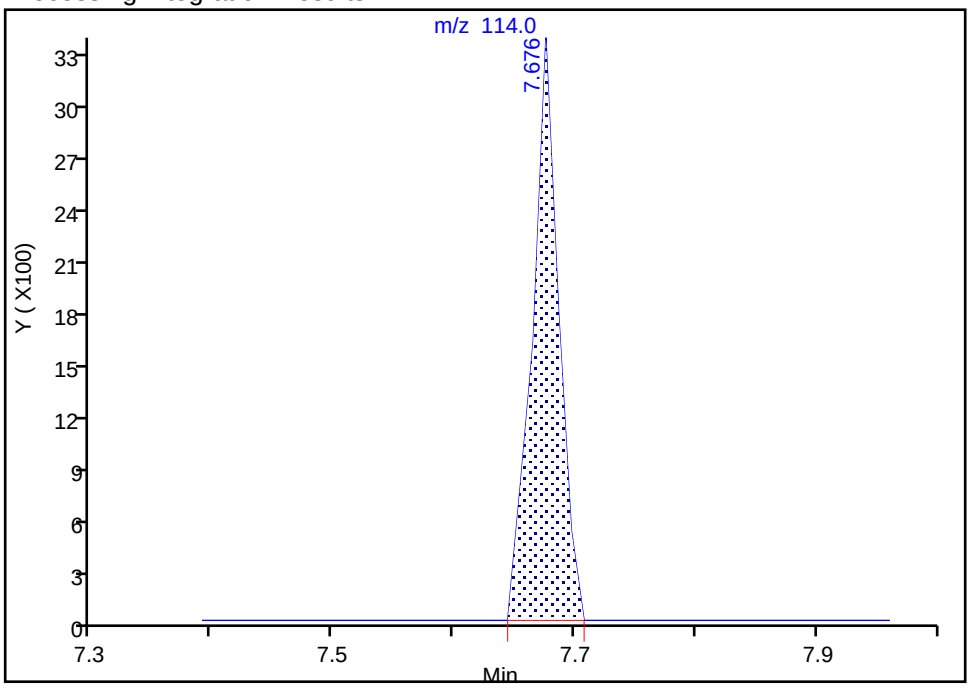
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

90 Chlorobenzene, CAS: 108-90-7

Signal: 2

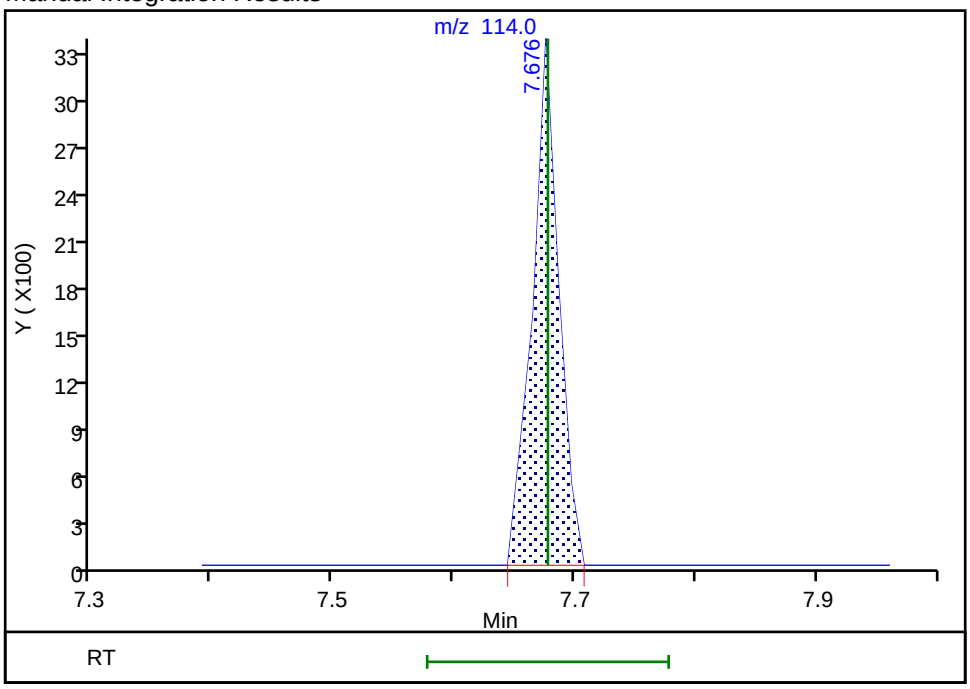
Processing Integration Results

RT: 7.68
Area: 5153
Amount: 0.601004
Amount Units: ug/l



Manual Integration Results

RT: 7.68
Area: 5153
Amount: 0.601004
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:43:56
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

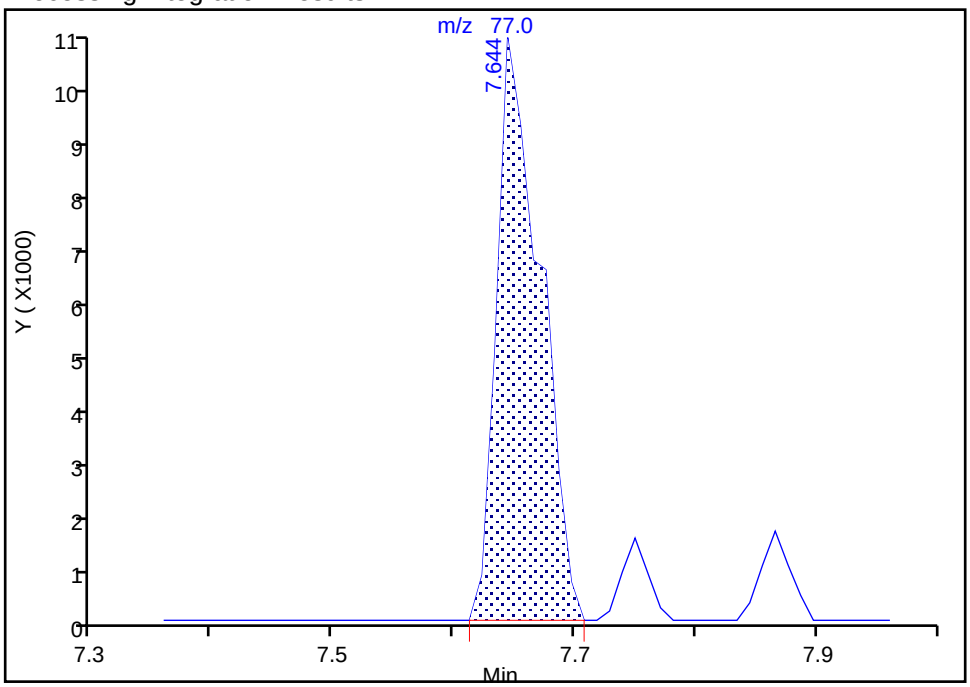
Data File:	\\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D				
Injection Date:	01-Jun-2020 16:26:30	Instrument ID:	VMS_P		
Lims ID:	STD005				
Client ID:					
Operator ID:	SEIFERTJ	ALS Bottle#:	1	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

90 Chlorobenzene, CAS: 108-90-7

Signal: 3

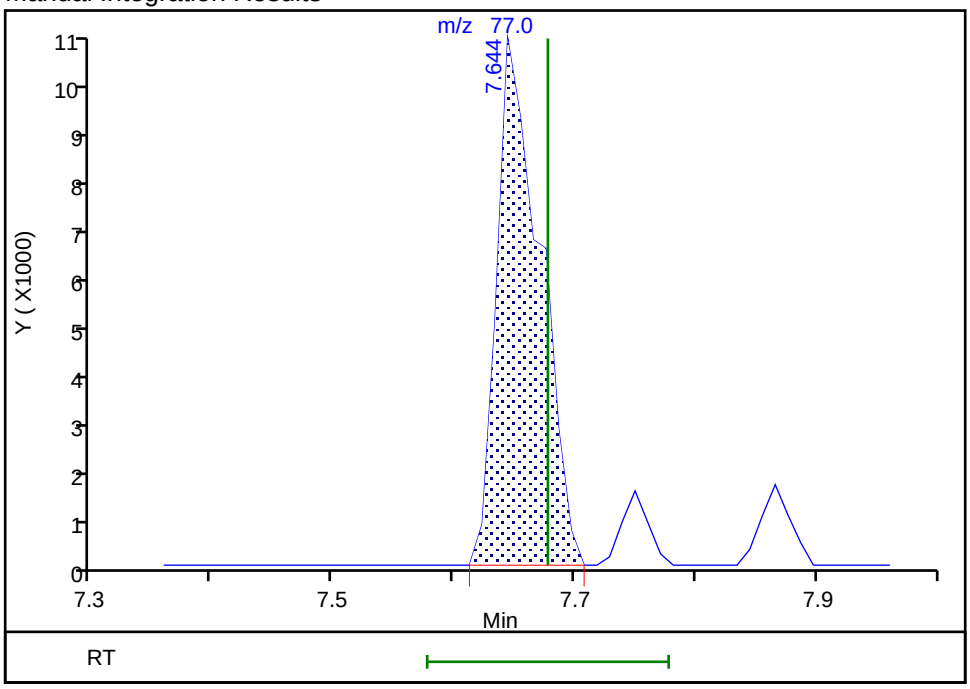
Processing Integration Results

RT: 7.64
Area: 25302
Amount: 0.601004
Amount Units: ug/l



Manual Integration Results

RT: 7.64
Area: 25302
Amount: 0.601004
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:43:56
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

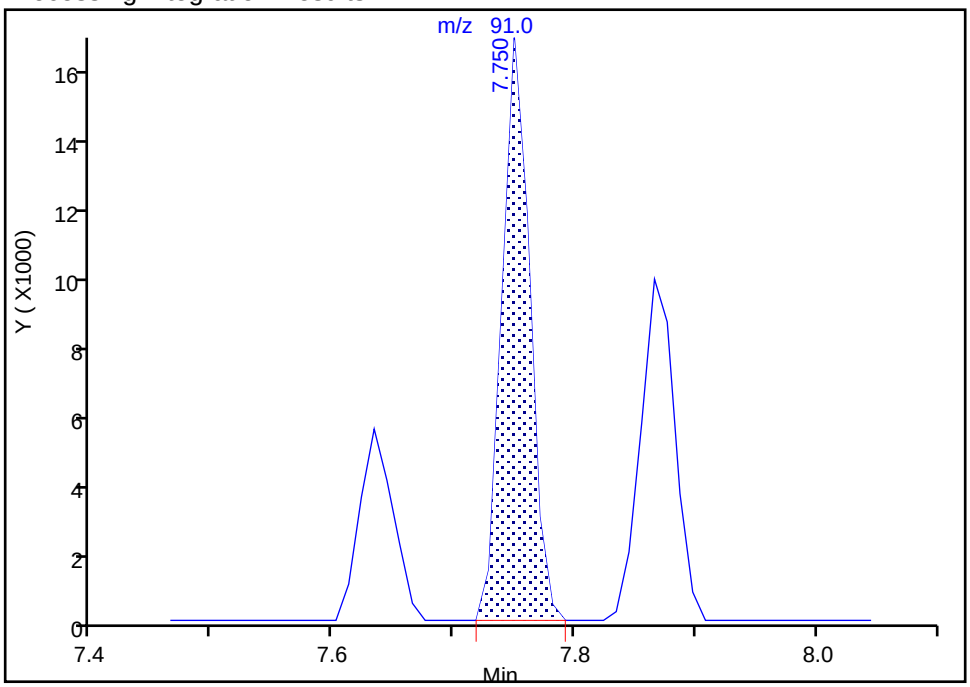
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

92 Ethylbenzene, CAS: 100-41-4

Signal: 2

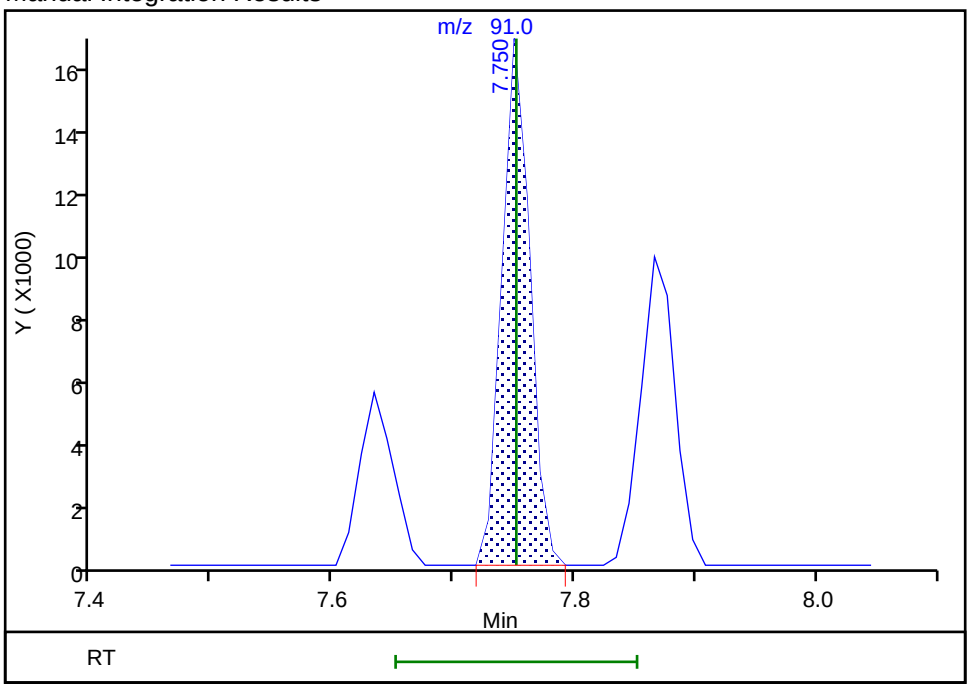
RT: 7.75
Area: 26158
Amount: 0.574387
Amount Units: ug/l

Processing Integration Results



Manual Integration Results

RT: 7.75
Area: 26158
Amount: 0.574387
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:43:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

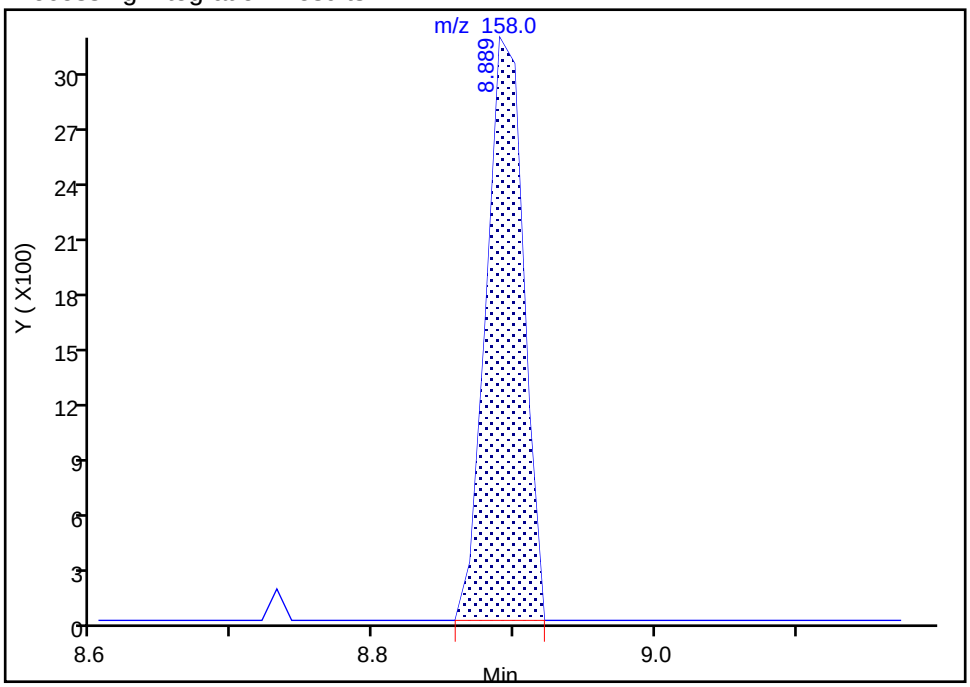
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

101 Bromobenzene, CAS: 108-86-1

Signal: 2

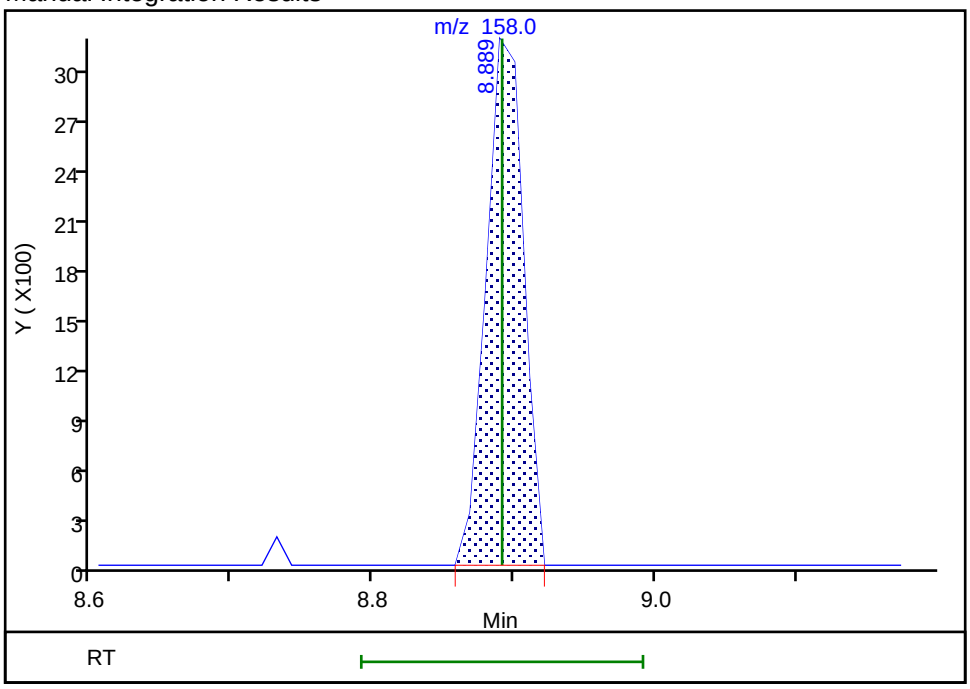
Processing Integration Results

RT: 8.89
Area: 5772
Amount: 0.596925
Amount Units: ug/l



Manual Integration Results

RT: 8.89
Area: 5772
Amount: 0.596925
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:44:05
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

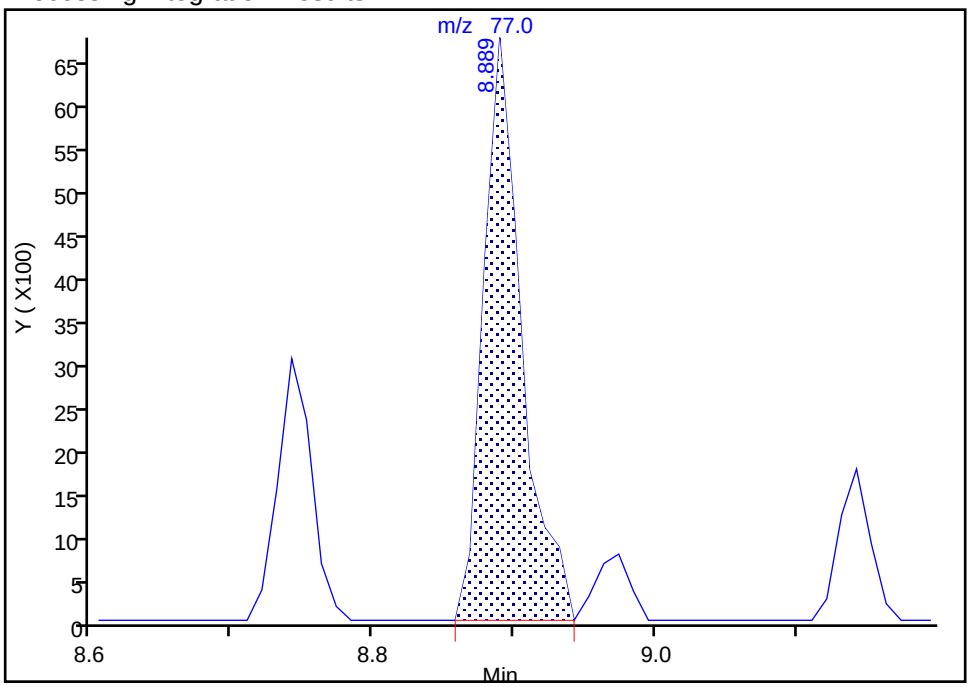
Data File:	\\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D				
Injection Date:	01-Jun-2020 16:26:30	Instrument ID:	VMS_P		
Lims ID:	STD005				
Client ID:					
Operator ID:	SEIFERTJ	ALS Bottle#:	1	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

101 Bromobenzene, CAS: 108-86-1

Signal: 3

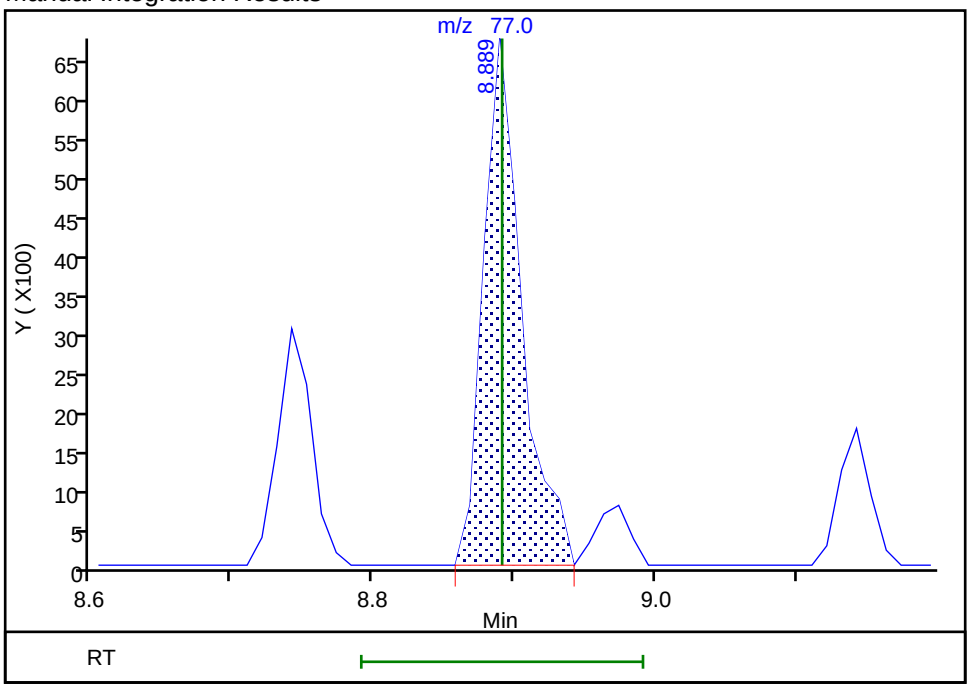
Processing Integration Results

RT: 8.89
Area: 12681
Amount: 0.596925
Amount Units: ug/l



Manual Integration Results

RT: 8.89
Area: 12681
Amount: 0.596925
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:44:05
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver

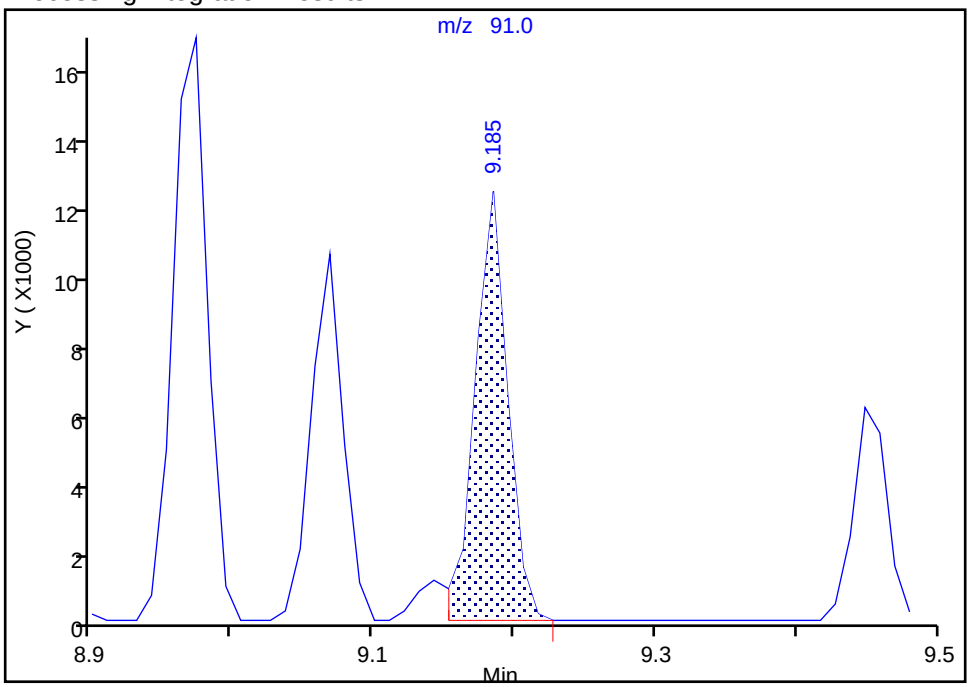
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

107 4-Chlorotoluene, CAS: 106-43-4

Signal: 2

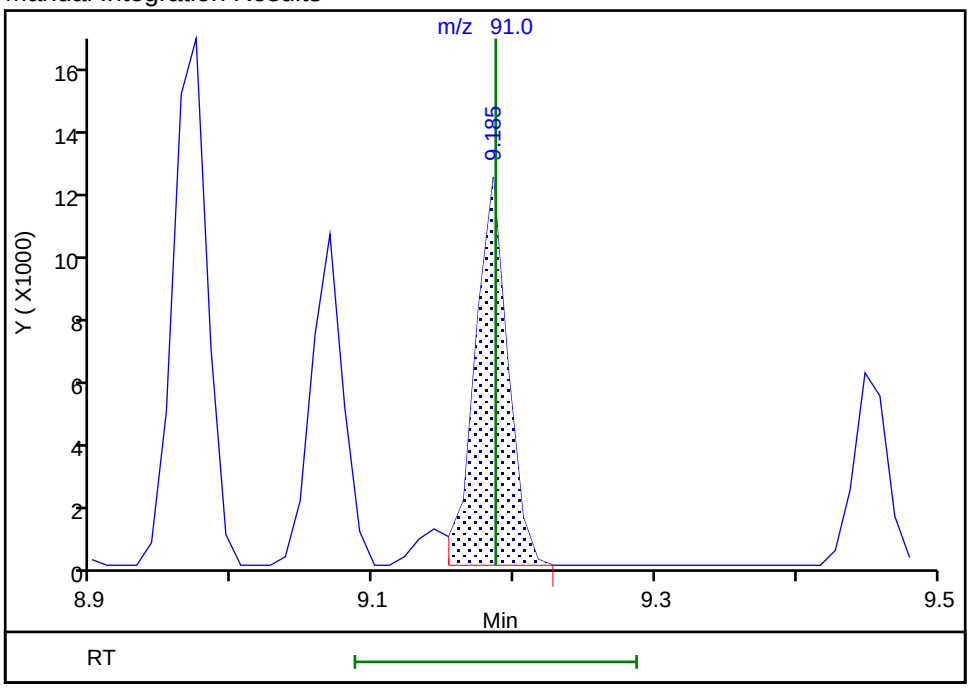
Processing Integration Results

RT: 9.18
Area: 20157
Amount: 0.586554
Amount Units: ug/l



Manual Integration Results

RT: 9.18
Area: 20157
Amount: 0.586554
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:44:09
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

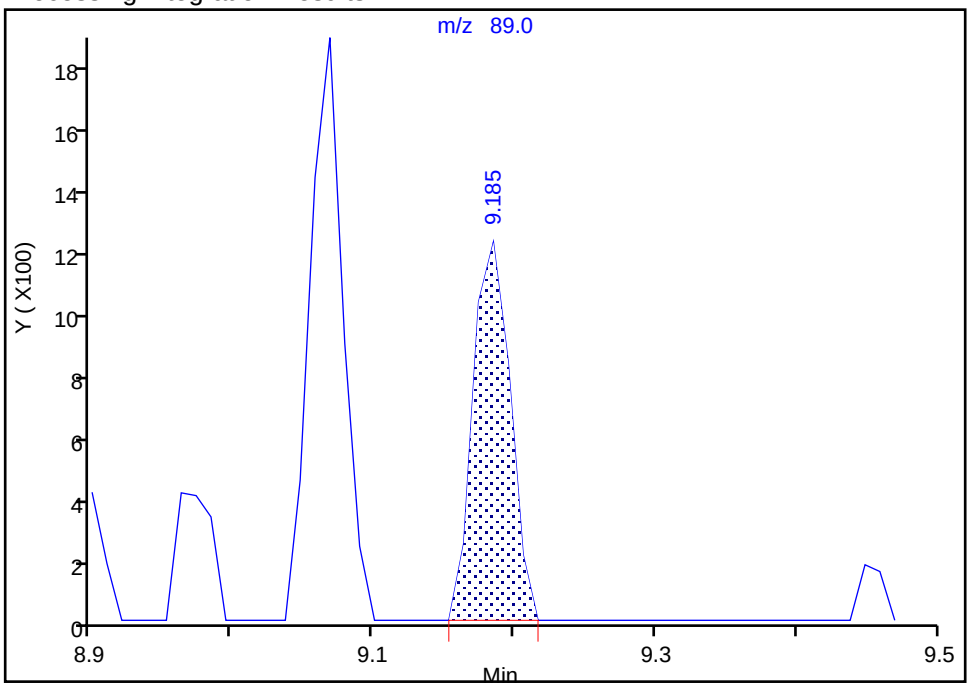
Data File:	\\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D				
Injection Date:	01-Jun-2020 16:26:30	Instrument ID:	VMS_P		
Lims ID:	STD005				
Client ID:					
Operator ID:	SEIFERTJ	ALS Bottle#:	1	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

107 4-Chlorotoluene, CAS: 106-43-4

Signal: 3

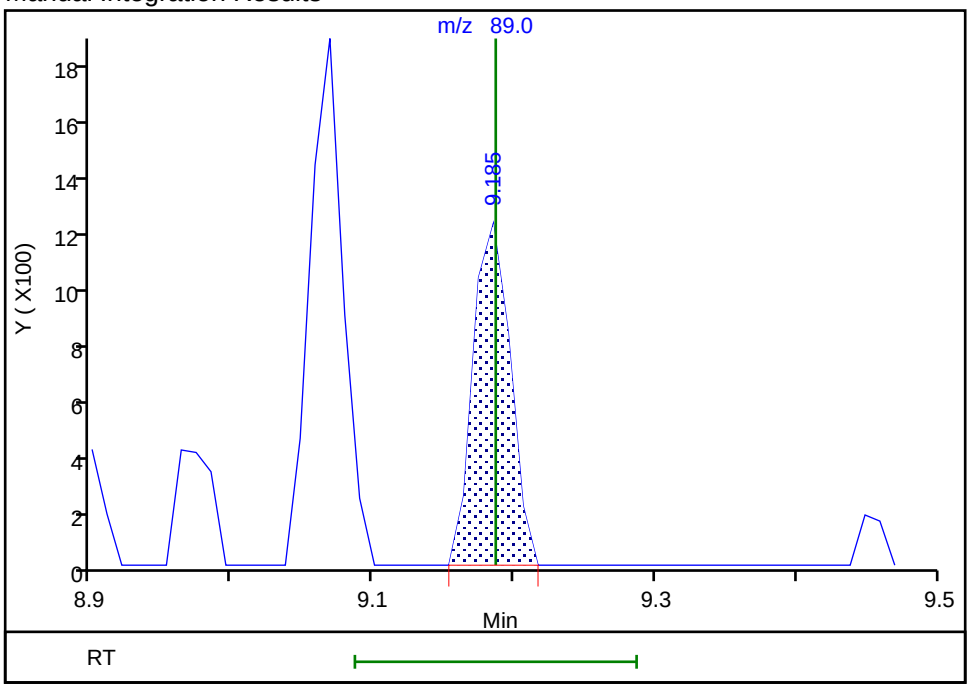
Processing Integration Results

RT: 9.18
Area: 2250
Amount: 0.586554
Amount Units: ug/l



Manual Integration Results

RT: 9.18
Area: 2250
Amount: 0.586554
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:44:09
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver

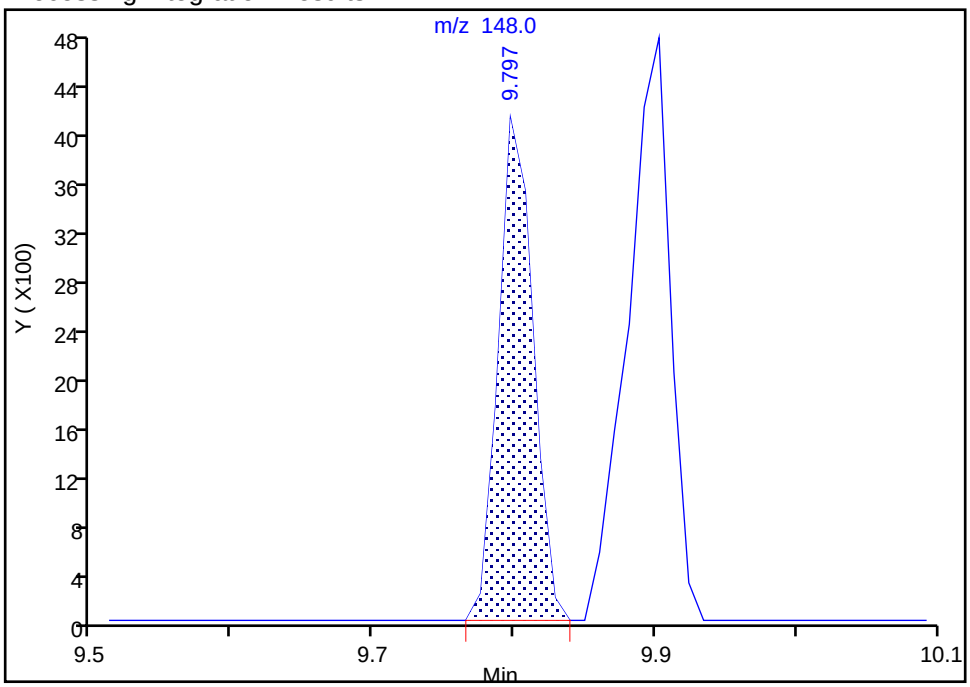
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

111 1,3-Dichlorobenzene, CAS: 541-73-1

Signal: 2

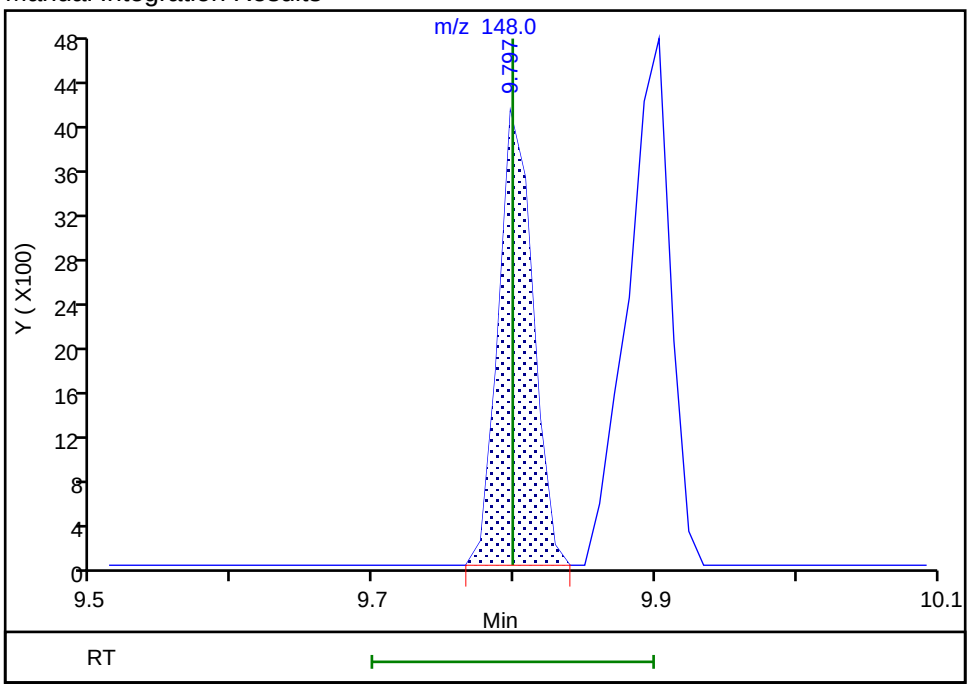
Processing Integration Results

RT: 9.80
Area: 7073
Amount: 0.634067
Amount Units: ug/l



Manual Integration Results

RT: 9.80
Area: 7073
Amount: 0.656056
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:44:13
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

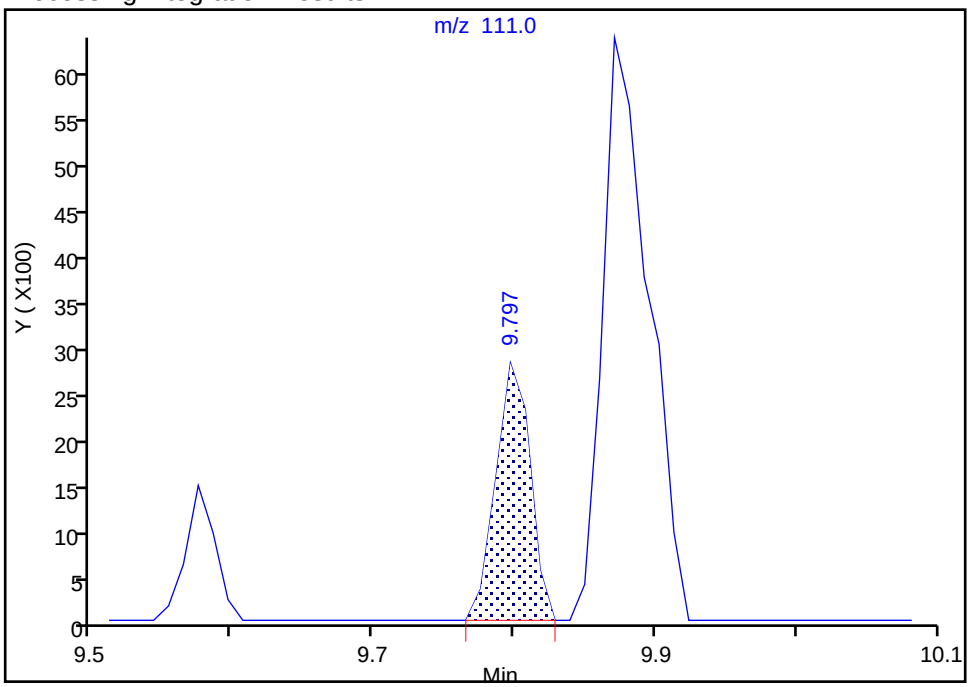
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

111 1,3-Dichlorobenzene, CAS: 541-73-1

Signal: 3

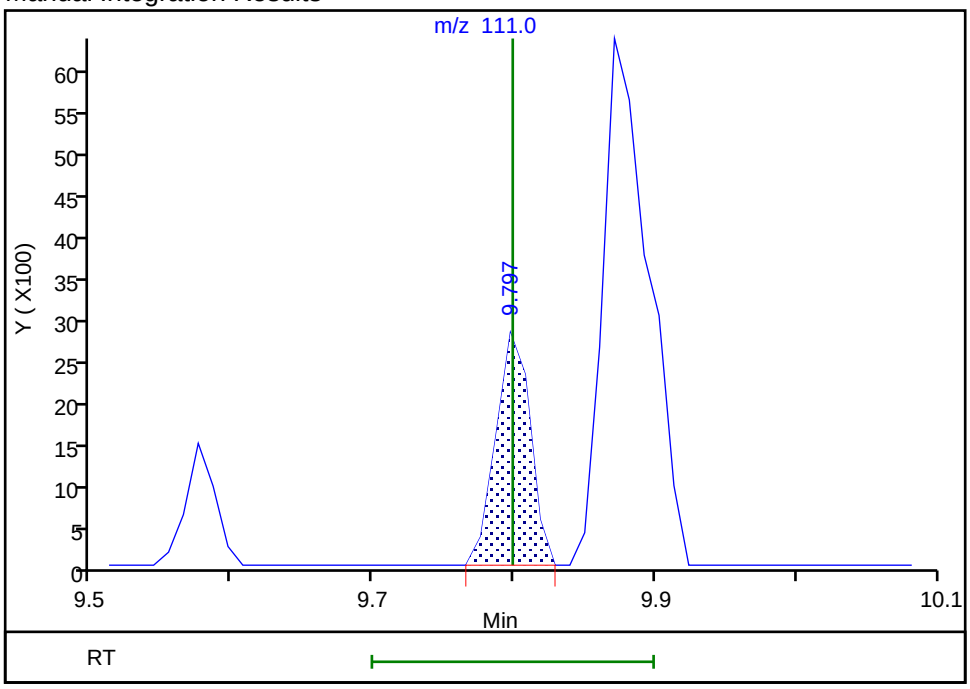
Processing Integration Results

RT: 9.80
Area: 4742
Amount: 0.634067
Amount Units: ug/l



Manual Integration Results

RT: 9.80
Area: 4742
Amount: 0.656056
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:44:13
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

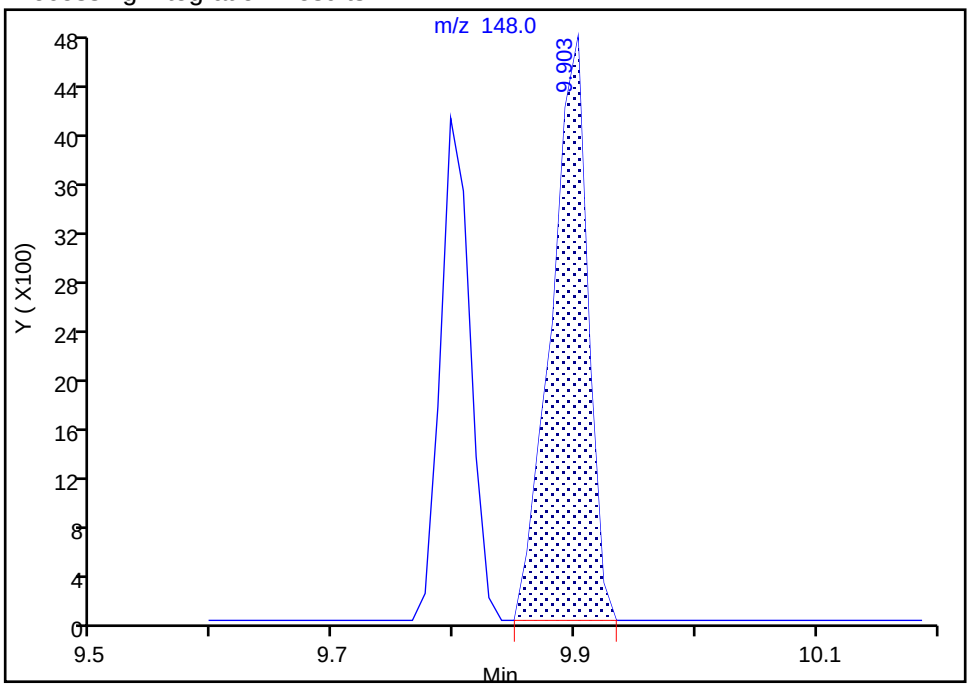
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

113 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 2

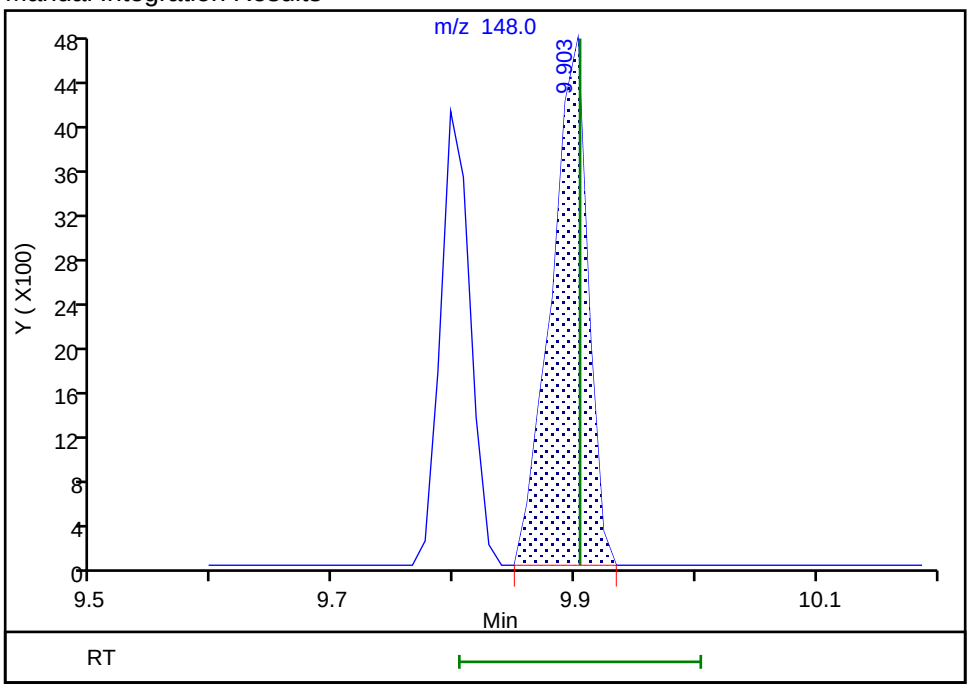
Processing Integration Results

RT: 9.90
Area: 10077
Amount: 0.647016
Amount Units: ug/l



Manual Integration Results

RT: 9.90
Area: 10077
Amount: 0.671704
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:44:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

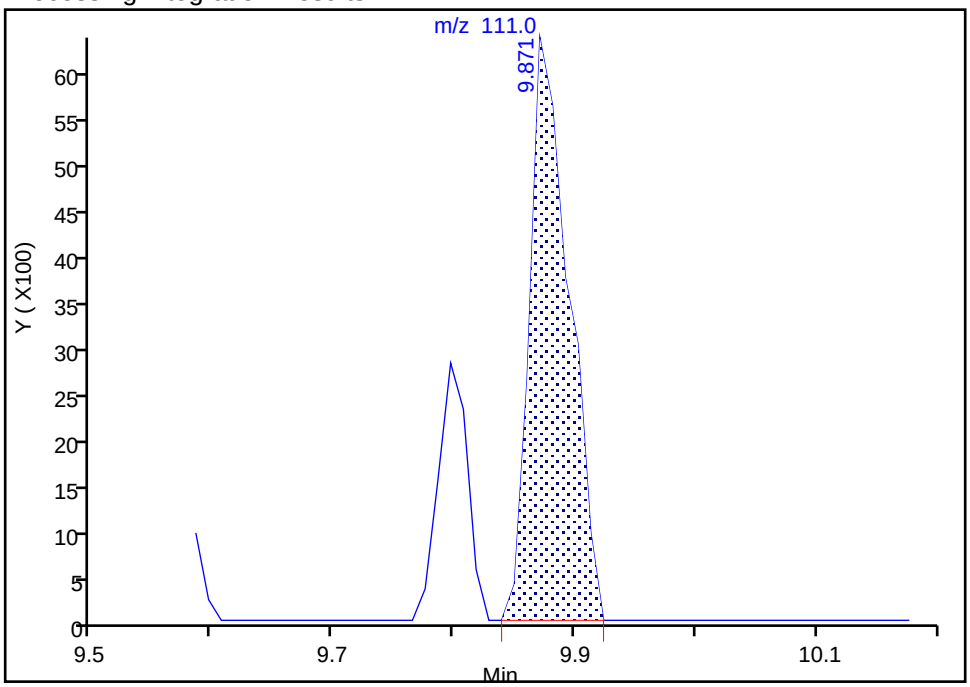
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

113 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 3

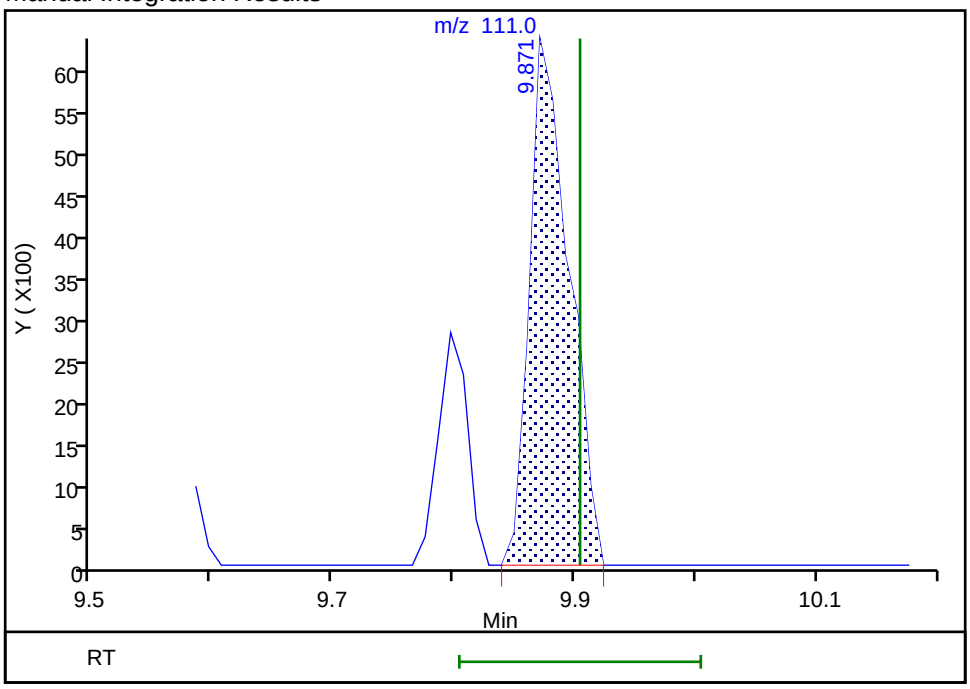
Processing Integration Results

RT: 9.87
Area: 14296
Amount: 0.647016
Amount Units: ug/l



Manual Integration Results

RT: 9.87
Area: 14296
Amount: 0.671704
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:44:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

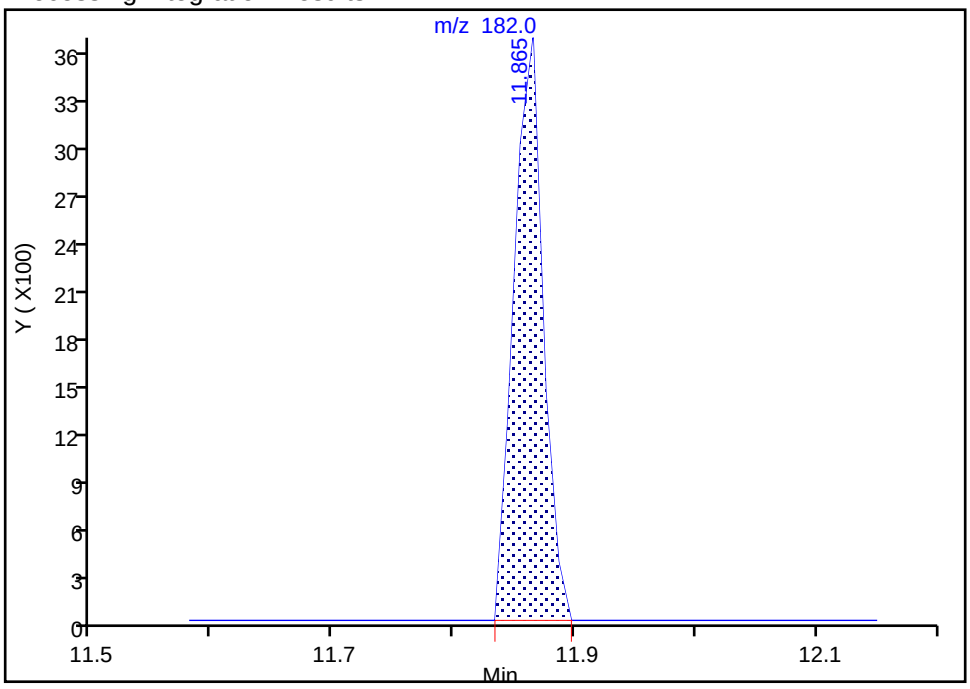
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

119 1,2,4-Trichlorobenzene, CAS: 120-82-1

Signal: 2

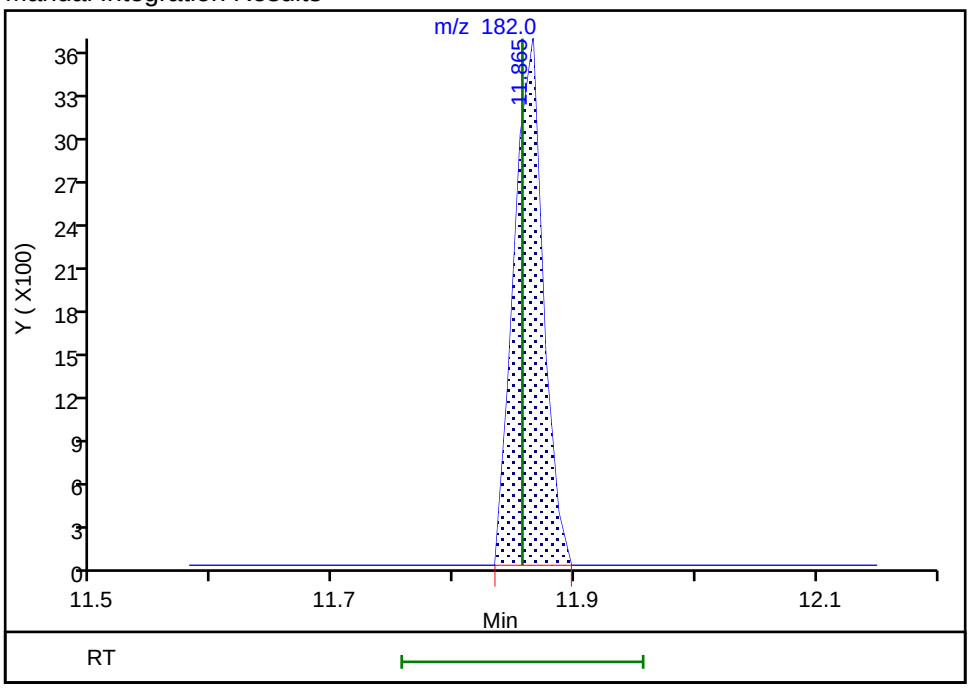
Processing Integration Results

RT: 11.87
Area: 6077
Amount: 0.654297
Amount Units: ug/l



Manual Integration Results

RT: 11.87
Area: 6077
Amount: 0.680549
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:44:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

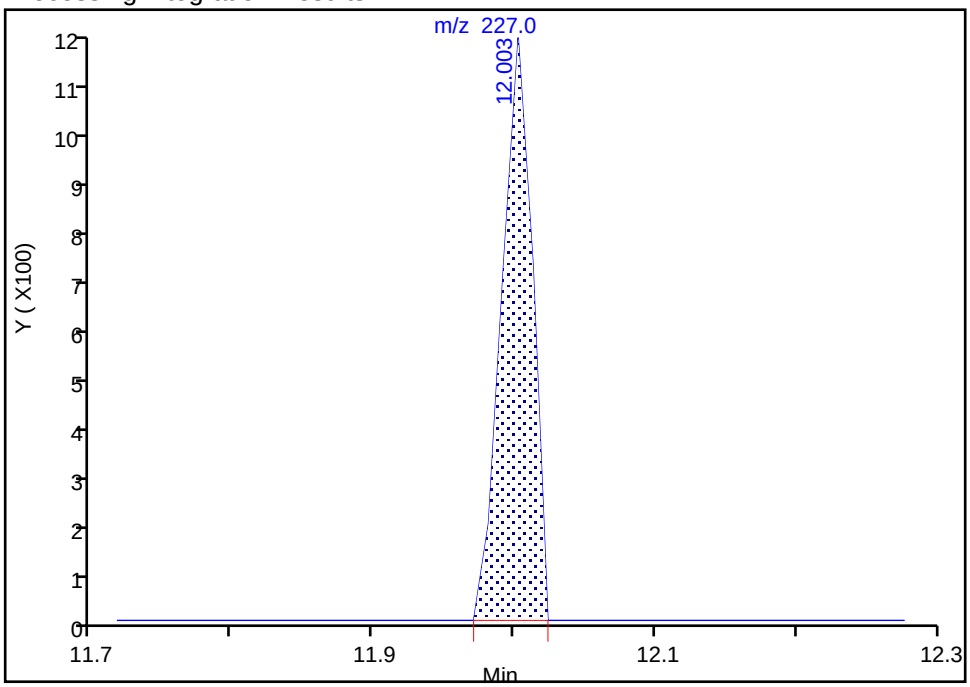
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

120 Hexachlorobutadiene, CAS: 87-68-3

Signal: 2

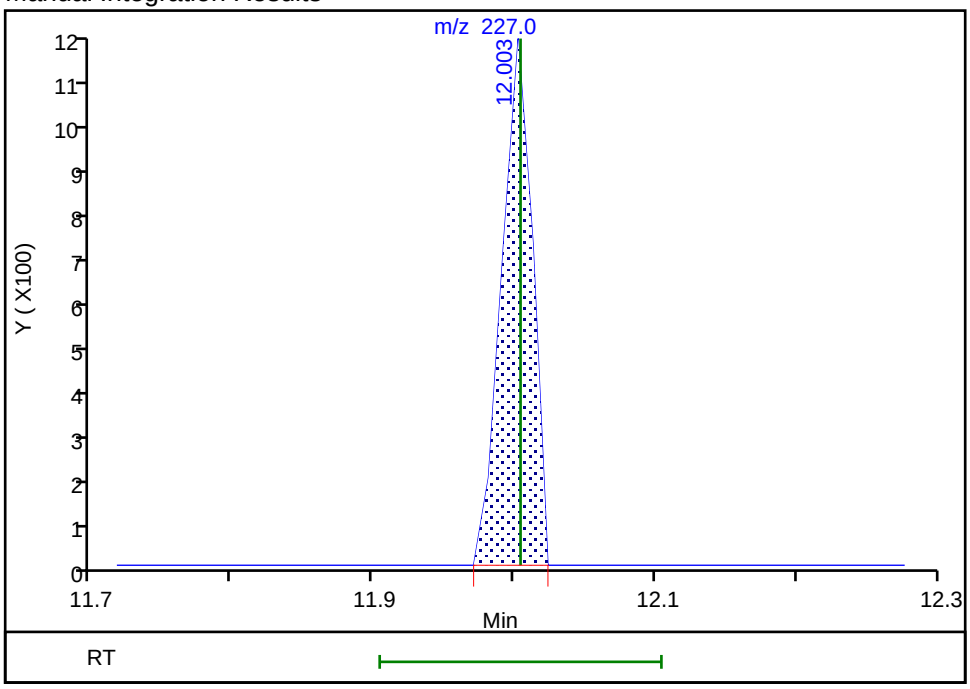
Processing Integration Results

RT: 12.00
Area: 1731
Amount: 0.680887
Amount Units: ug/l



Manual Integration Results

RT: 12.00
Area: 1731
Amount: 0.851194
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:44:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

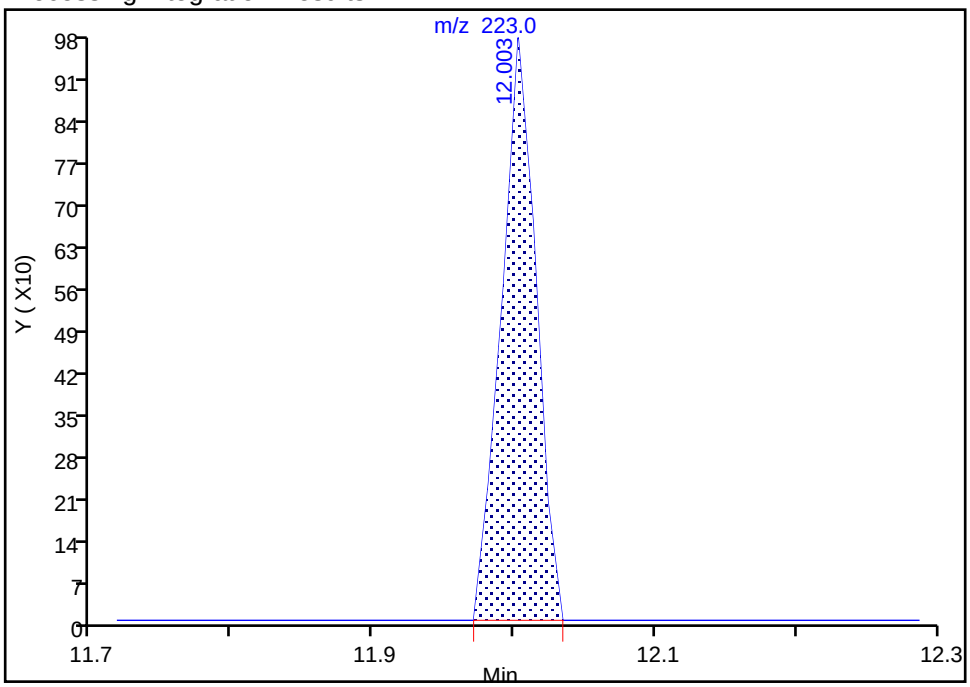
Data File:	\\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D				
Injection Date:	01-Jun-2020 16:26:30	Instrument ID:	VMS_P		
Lims ID:	STD005				
Client ID:					
Operator ID:	SEIFERTJ	ALS Bottle#:	1	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

120 Hexachlorobutadiene, CAS: 87-68-3

Signal: 3

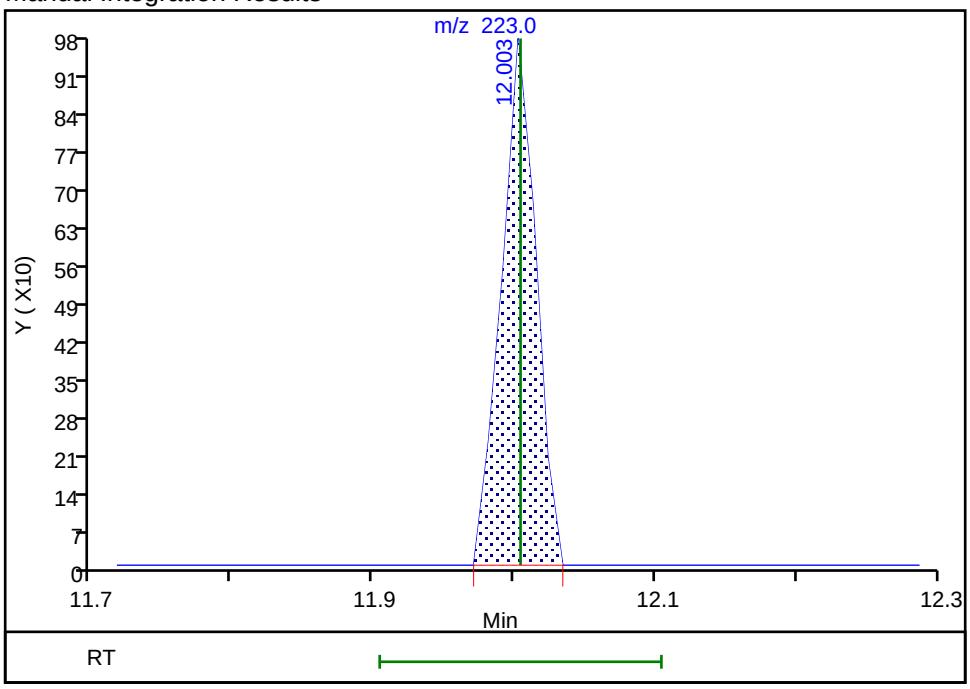
Processing Integration Results

RT: 12.00
Area: 1658
Amount: 0.680887
Amount Units: ug/l



Manual Integration Results

RT: 12.00
Area: 1658
Amount: 0.851194
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:44:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

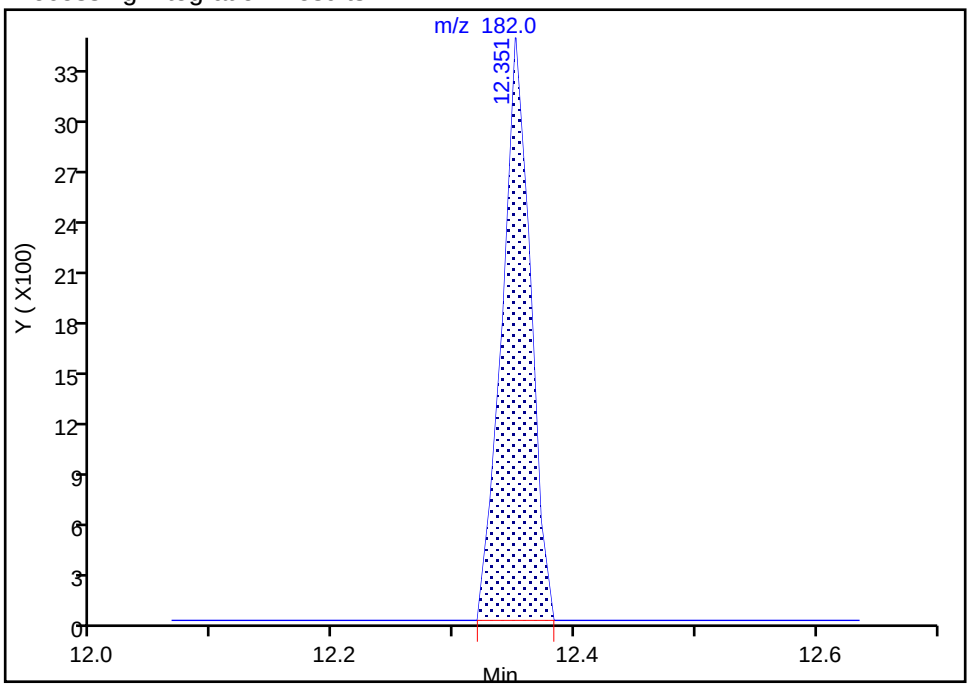
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: STD005
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

122 1,2,3-Trichlorobenzene, CAS: 87-61-6

Signal: 2

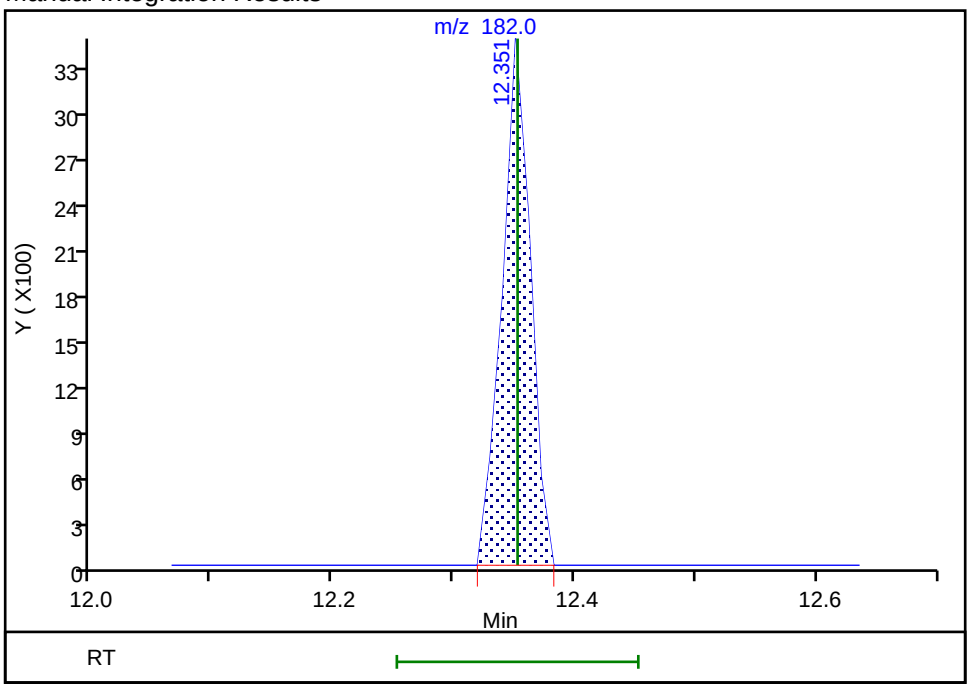
Processing Integration Results

RT: 12.35
Area: 5631
Amount: 0.622333
Amount Units: ug/l



Manual Integration Results

RT: 12.35
Area: 5631
Amount: 0.641966
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:44:20
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1659.D
Lims ID: STD010
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 01-Jun-2020 16:47:30 ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD010
Operator ID: SEIFERTJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jun-2020 11:15:43 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1054

First Level Reviewer: ornelasg Date: 01-Jun-2020 20:58:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.114	5.113	0.001	99	2383354	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.646	7.646	0.000	87	531421	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.873	9.873	0.000	97	760731	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.607	4.607	0.000	93	574659	50.0	50.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.860	4.871	-0.011	97	691353	50.0	51.2	
$ 6 Toluene-d8 (Surr)	98	6.369	6.369	0.000	93	2368182	50.0	50.6	
$ 7 4-Bromofluorobenzene (Surr)	95	8.744	8.743	0.001	83	850285	50.0	50.6	
10 Dichlorodifluoromethane	85	1.663	1.662	0.001	97	5476	1.00	0.8192	
11 Chloromethane	50	1.842	1.842	0.000	100	10961	1.00	0.8970	
12 Vinyl chloride	62	1.937	1.937	0.000	98	9829	1.00	0.9420	
14 Bromomethane	94	2.233	2.232	0.001	88	10332	1.00	0.9459	
15 Chloroethane	64	2.328	2.327	0.001	97	6373	1.00	0.9591	
16 Dichlorofluoromethane	67	2.497	2.496	0.001	96	15298	1.00	0.9860	
17 Trichlorofluoromethane	101	2.528	2.538	-0.010	98	12743	1.00	0.9893	
19 Ethyl ether	59	2.750	2.749	0.001	92	8448	1.00	1.04	
21 Acrolein	56	2.855	2.855	0.000	99	20816	9.88	10.4	
22 1,1-Dichloroethene	96	2.940	2.939	0.001	98	8105	1.00	1.05	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.940	2.939	0.001	75	6283	1.00	1.08	
24 Acetone	43	2.961	2.960	0.001	99	17462	4.00	4.34	
26 Iodomethane	142	3.066	3.066	0.000	98	5391	1.00	1.42	
27 Carbon disulfide	76	3.130	3.129	0.001	99	26575	1.00	0.8537	
29 Methyl acetate	43	3.193	3.193	0.000	98	17449	2.00	2.15	
30 3-Chloro-1-propene	41	3.214	3.214	0.000	92	13759	1.00	1.04	
31 Methylene Chloride	84	3.309	3.309	0.000	93	12146	1.00	0.8495	
32 2-Methyl-2-propanol	59	3.351	3.351	0.000	97	10427	10.0	9.98	
33 Acrylonitrile	53	3.467	3.467	0.000	100	46835	10.0	10.7	
34 Methyl tert-butyl ether	73	3.499	3.499	0.000	94	26688	1.00	1.02	
35 trans-1,2-Dichloroethene	96	3.510	3.509	0.001	97	9430	1.00	1.04	
36 Hexane	57	3.710	3.710	0.000	92	13212	1.00	1.07	
38 Vinyl acetate	43	3.805	3.805	0.000	97	39777	2.00	2.03	
39 1,1-Dichloroethane	63	3.837	3.836	0.001	96	17492	1.00	1.05	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	4.217	4.216	0.001	98	22389	4.00	4.21	
47 cis-1,2-Dichloroethene	96	4.248	4.248	0.000	82	10604	1.00	1.05	
48 2,2-Dichloropropane	77	4.259	4.258	0.001	91	11073	1.00	0.9814	
50 sec-Butyl Alcohol	45	4.333	4.322	0.011	98	22900	30.0	26.8	
52 Tetrahydrofuran	42	4.428	4.427	0.001	87	7747	2.00	2.20	
53 Chlorobromomethane	128	4.428	4.427	0.001	97	4702	1.00	1.04	
54 Chloroform	83	4.480	4.480	0.000	93	16640	1.00	1.04	
55 1,1,1-Trichloroethane	97	4.628	4.628	0.000	96	12946	1.00	1.02	
56 Cyclohexane	56	4.692	4.691	0.001	87	16664	1.00	1.03	
57 1,1-Dichloropropene	75	4.744	4.744	0.000	95	14002	1.00	1.05	
59 Carbon tetrachloride	117	4.744	4.754	-0.010	92	10013	1.00	0.9655	
58 Isobutyl alcohol	41	4.755	4.754	0.001	90	8906	25.0	24.2	
60 Benzene	78	4.892	4.902	-0.010	96	41858	1.00	1.07	
61 1,2-Dichloroethane	62	4.924	4.923	0.001	97	16511	1.00	1.00	
66 n-Heptane	43	5.082	5.082	0.000	91	12658	1.00	1.08	
67 Trichloroethene	95	5.388	5.388	0.000	96	9625	1.00	1.00	
68 2-Pentanone	43	5.483	5.483	0.000	98	31765	4.00	4.02	
69 Methylcyclohexane	55	5.578	5.578	0.000	92	12607	1.00	1.03	
70 1,2-Dichloropropane	63	5.588	5.599	-0.011	96	10485	1.00	1.03	
72 1,4-Dioxane	88	5.631	5.630	0.001	87	2933	20.0	20.8	
73 Dibromomethane	93	5.662	5.662	0.000	93	6224	1.00	1.07	
74 Dichlorobromomethane	83	5.789	5.789	0.000	98	11312	1.00	0.9620	
76 2-Chloroethyl vinyl ether	63	5.989	5.989	0.000	91	6403	1.00	0.9133	
77 cis-1,3-Dichloropropene	75	6.137	6.137	0.000	94	13633	1.00	0.9565	
78 4-Methyl-2-pentanone (MIBK)	43	6.232	6.242	-0.010	96	40359	4.00	3.98	
79 Toluene	91	6.422	6.432	-0.010	98	43821	1.00	1.07	
80 trans-1,3-Dichloropropene	75	6.602	6.601	0.001	92	11495	1.00	0.8927	
81 Ethyl methacrylate	69	6.623	6.622	0.001	89	12391	1.00	0.9486	
82 1,1,2-Trichloroethane	97	6.781	6.781	0.000	90	8647	1.00	1.04	
83 Tetrachloroethene	164	6.876	6.876	0.000	92	7028	1.00	1.08	
84 1,3-Dichloropropane	76	6.929	6.928	0.001	89	16209	1.00	1.04	
85 2-Hexanone	43	6.939	6.939	0.000	97	28505	4.00	3.99	
86 Chlorodibromomethane	129	7.119	7.118	0.001	87	7421	1.00	0.9276	
88 Ethylene Dibromide	107	7.235	7.245	-0.010	100	8675	1.00	1.00	
89 1-Chlorohexane	91	7.636	7.635	0.001	79	15776	1.00	0.99	
90 Chlorobenzene	112	7.667	7.678	-0.011	94	26446	1.00	1.05	
92 Ethylbenzene	106	7.752	7.751	0.001	99	13801	1.00	1.00	
91 1,1,1,2-Tetrachloroethane	131	7.741	7.751	-0.010	79	7583	1.00	0.9794	
93 m-Xylene & p-Xylene	106	7.868	7.868	0.000	99	17205	1.00	1.04	
94 o-Xylene	106	8.227	8.226	0.001	97	15696	1.00	0.9842	
95 Styrene	104	8.248	8.247	0.001	94	26358	1.00	0.9811	
96 Bromoform	173	8.427	8.427	0.000	91	4334	1.00	0.9165	
97 Isopropylbenzene	105	8.564	8.575	-0.011	96	39516	1.00	0.99	
99 Cyclohexanone	55	8.659	8.670	-0.011	93	20432	40.0	37.5	
100 1,1,2,2-Tetrachloroethane	83	8.849	8.859	-0.010	94	12209	1.00	1.05	
101 Bromobenzene	156	8.892	8.891	0.001	95	9337	1.00	0.99	
102 trans-1,4-Dichloro-2-butene	53	8.892	8.891	0.001	51	2740	1.00	0.8840	
103 1,2,3-Trichloropropane	110	8.923	8.923	0.000	86	3818	1.00	1.08	
104 N-Propylbenzene	120	8.965	8.965	0.000	99	11266	1.00	1.02	
105 2-Chlorotoluene	126	9.060	9.071	-0.011	95	9351	1.00	1.00	
106 1,3,5-Trimethylbenzene	105	9.134	9.144	-0.010	94	33063	1.00	1.01	
107 4-Chlorotoluene	126	9.187	9.187	0.000	98	9835	1.00	1.01	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 tert-Butylbenzene	119	9.451	9.450	0.001	93	27390	1.00	1.00	
109 1,2,4-Trimethylbenzene	105	9.504	9.514	-0.010	96	32879	1.00	1.00	
110 sec-Butylbenzene	134	9.672	9.672	0.000	95	7836	1.00	0.9799	
111 1,3-Dichlorobenzene	146	9.799	9.799	0.000	96	17575	1.00	1.03	
112 4-Isopropyltoluene	119	9.820	9.820	0.000	97	33248	1.00	0.99	
113 1,4-Dichlorobenzene	146	9.894	9.904	-0.010	89	19657	1.00	1.12	
115 n-Butylbenzene	91	10.221	10.221	0.000	97	32229	1.00	1.03	
116 1,2-Dichlorobenzene	146	10.253	10.252	0.001	97	17305	1.00	1.02	
117 1,2-Dibromo-3-Chloropropane	157	11.034	11.033	0.001	80	1852	1.00	0.9351	
119 1,2,4-Trichlorobenzene	180	11.857	11.856	0.001	94	9317	1.00	1.01	
120 Hexachlorobutadiene	225	11.994	12.004	-0.010	93	3403	1.00	1.02	
121 Naphthalene	128	12.121	12.131	-0.010	98	28091	1.00	0.9459	
122 1,2,3-Trichlorobenzene	180	12.353	12.352	0.001	94	8541	1.00	1.01	
S 139 1,2-Dichloroethene, Total (URS)	96				0		2.00	2.08	
S 142 Xylenes, Total	106				0		2.00	2.02	
S 140 Trihalomethanes, Total	1				0		4.00	3.85	
S 143 Xylenes, Total (URS)	1				0		2.00	2.02	
S 146 Total BTEX	1				0			5.15	
S 145 1,3-Dichloropropene, Total	1				0		2.00	1.85	
S 144 1,2-Dichloroethene, Total	1				0		2.00	2.08	

Reagents:

MV-Gas A_00058	Amount Added:	0.20	Units: uL	
MV-MegaMainA_00034	Amount Added:	0.50	Units: uL	
mv-IS_SS_00001	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 02-Jun-2020 11:15:44 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1659.D

Injection Date: 01-Jun-2020 16:47:30 Instrument ID: VMS_P Operator ID: SEIFERTJ

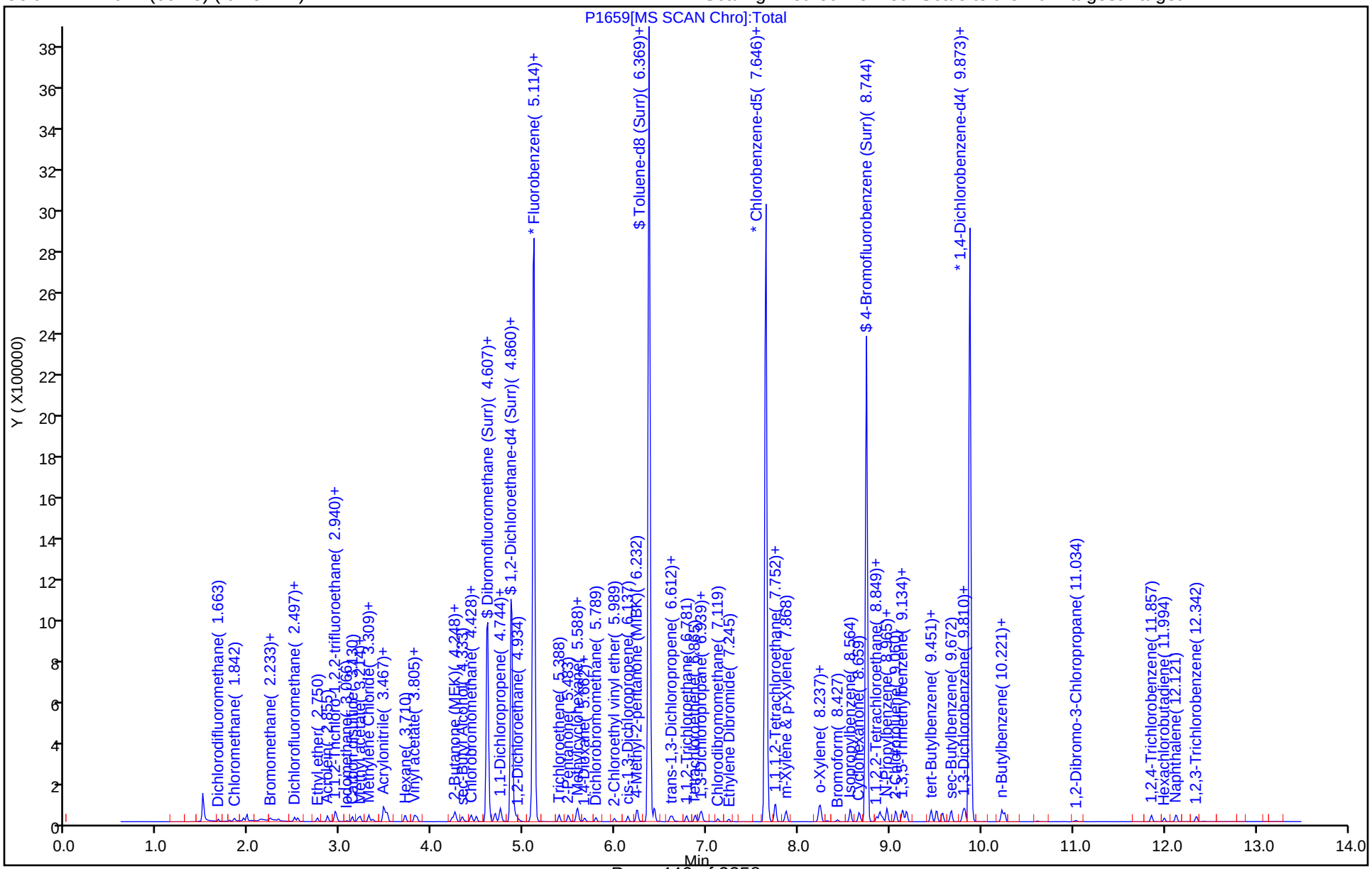
Lims ID: STD010 Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

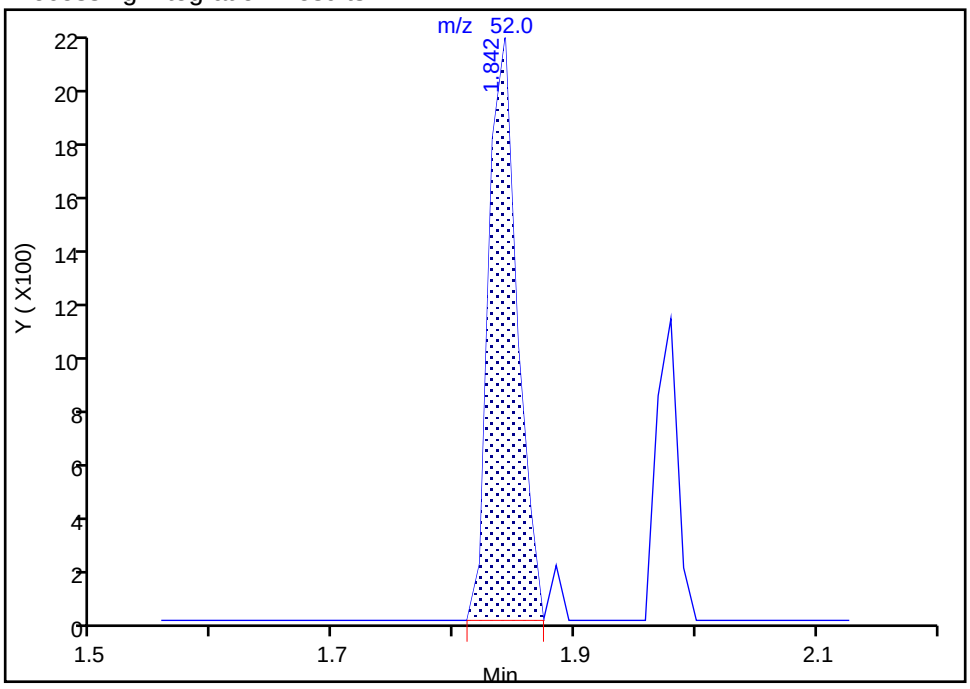
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1659.D
Injection Date: 01-Jun-2020 16:47:30 Instrument ID: VMS_P
Lims ID: STD010
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

11 Chloromethane, CAS: 74-87-3

Signal: 2

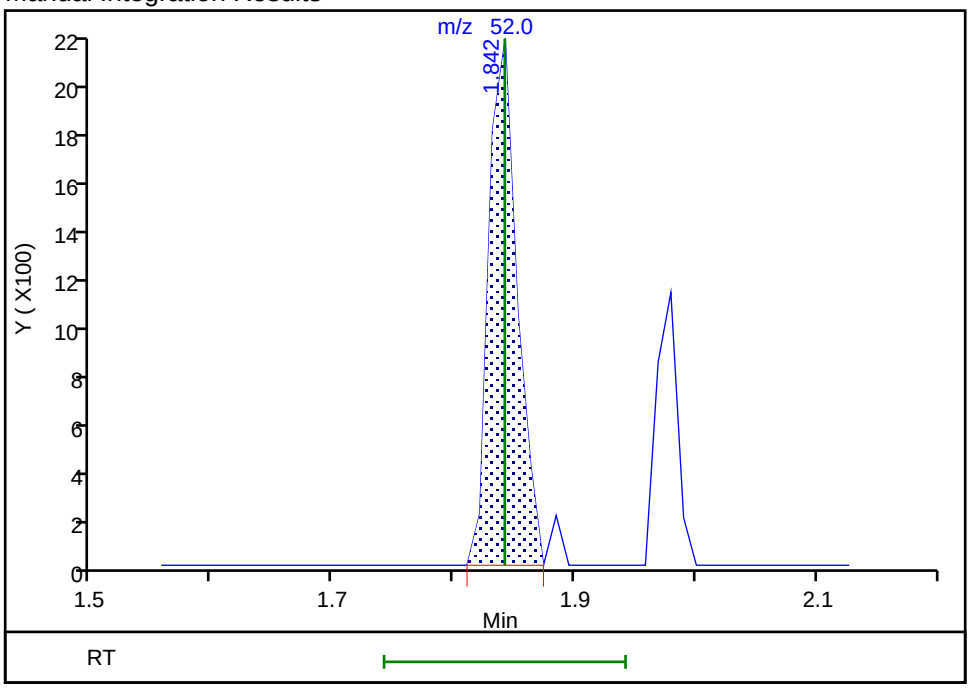
Processing Integration Results

RT: 1.84
Area: 3460
Amount: 1.141745
Amount Units: ug/l



Manual Integration Results

RT: 1.84
Area: 3460
Amount: 0.897043
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:04:09
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

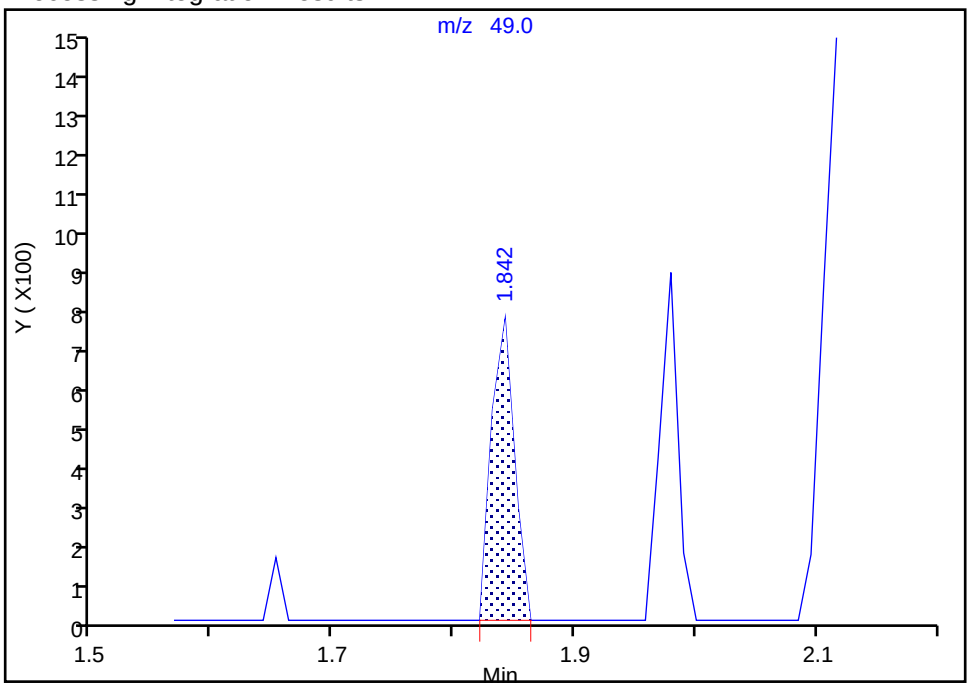
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1659.D
Injection Date: 01-Jun-2020 16:47:30 Instrument ID: VMS_P
Lims ID: STD010
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

11 Chloromethane, CAS: 74-87-3

Signal: 3

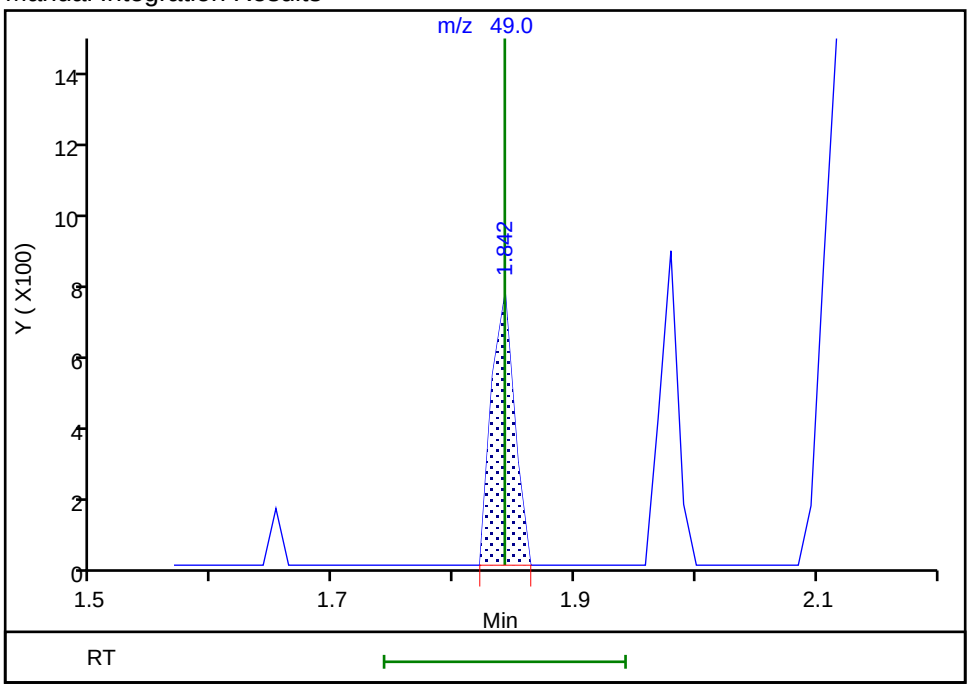
Processing Integration Results

RT: 1.84
Area: 1020
Amount: 1.141745
Amount Units: ug/l



Manual Integration Results

RT: 1.84
Area: 1020
Amount: 0.897043
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:04:09
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

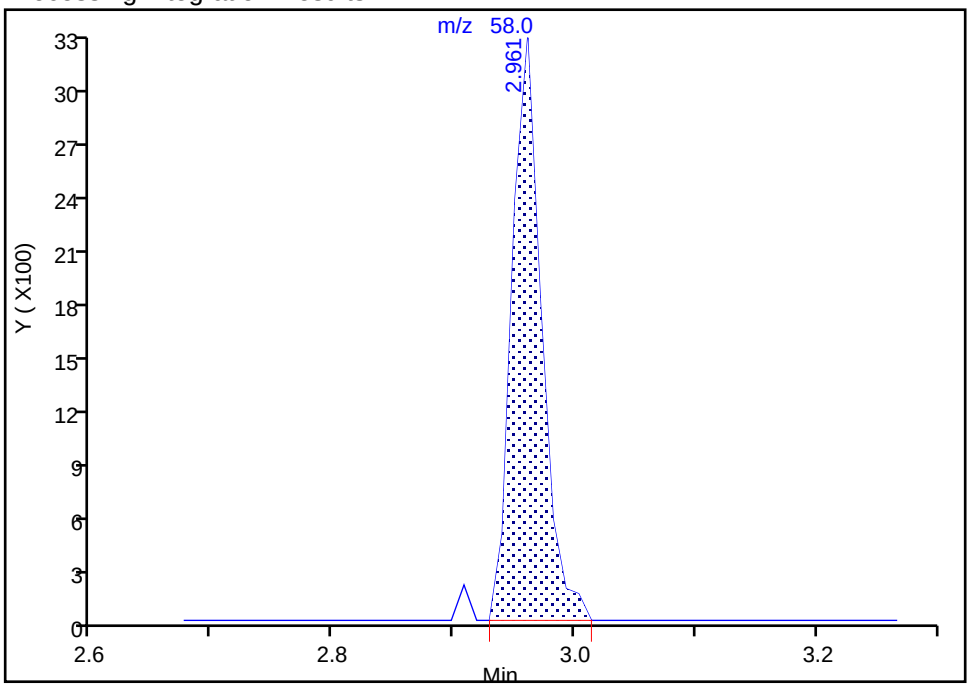
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1659.D
Injection Date: 01-Jun-2020 16:47:30 Instrument ID: VMS_P
Lims ID: STD010
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 2 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

24 Acetone, CAS: 67-64-1

Signal: 2

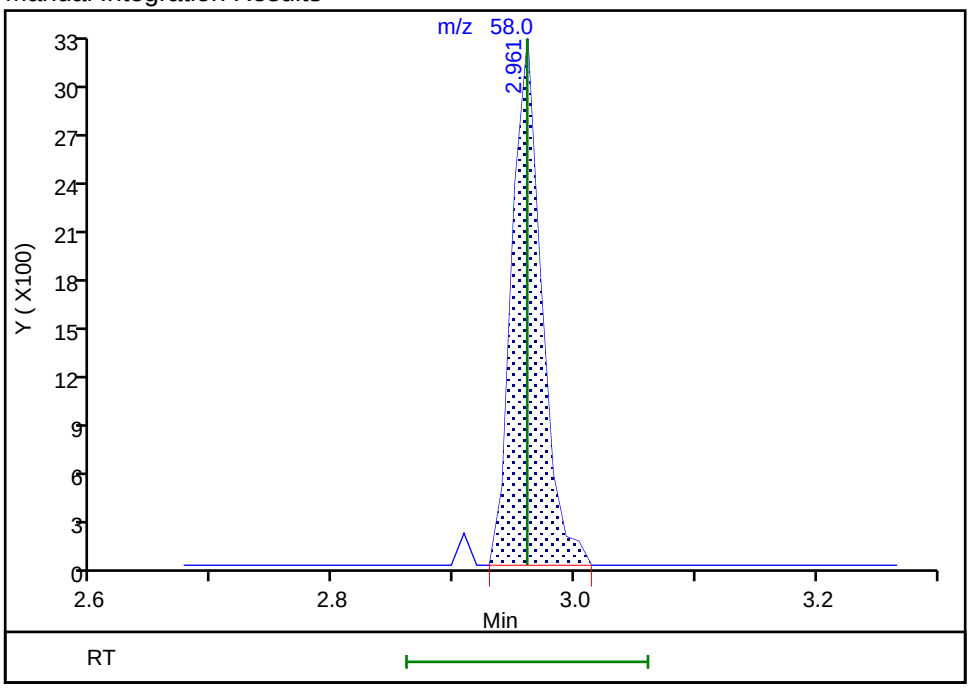
Processing Integration Results

RT: 2.96
Area: 5597
Amount: 4.336547
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 5597
Amount: 4.336547
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:52:00
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1660.D
Lims ID: STD020
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 01-Jun-2020 17:09:30 ALS Bottle#: 3 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD020
Operator ID: SEIFERTJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jun-2020 11:15:54 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1054

First Level Reviewer: seifertj Date: 02-Jun-2020 08:07:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.113	5.113	0.000	99	2374045	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.645	7.646	-0.001	87	531862	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.872	9.873	-0.001	97	763439	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.606	4.607	-0.001	93	571033	50.0	49.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.870	4.871	-0.001	98	685163	50.0	50.9	
$ 6 Toluene-d8 (Surr)	98	6.369	6.369	0.000	93	2368091	50.0	50.6	
$ 7 4-Bromofluorobenzene (Surr)	95	8.743	8.743	0.000	83	845318	50.0	50.2	
10 Dichlorodifluoromethane	85	1.662	1.662	0.000	98	11244	2.00	1.69	
11 Chloromethane	50	1.841	1.842	-0.001	99	18647	2.00	1.76	
12 Vinyl chloride	62	1.936	1.937	-0.001	97	20856	2.00	2.01	
14 Bromomethane	94	2.232	2.232	0.000	88	14480	2.00	2.04	
15 Chloroethane	64	2.327	2.327	0.000	98	13433	2.00	2.03	
16 Dichlorofluoromethane	67	2.496	2.496	0.000	97	30965	2.00	2.00	
17 Trichlorofluoromethane	101	2.538	2.538	0.000	97	25172	2.00	1.96	
19 Ethyl ether	59	2.749	2.749	0.000	91	16790	2.00	2.08	
21 Acrolein	56	2.854	2.855	-0.001	99	41406	19.8	20.7	
22 1,1-Dichloroethene	96	2.939	2.939	0.000	97	16694	2.00	2.17	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.939	2.939	0.000	72	12382	2.00	2.14	
24 Acetone	43	2.960	2.960	0.000	99	32447	8.00	9.15	
26 Iodomethane	142	3.066	3.066	0.000	96	6724	2.00	1.60	M
27 Carbon disulfide	76	3.129	3.129	0.000	99	52942	2.00	1.97	
29 Methyl acetate	43	3.192	3.193	-0.001	98	34344	4.00	4.26	
30 3-Chloro-1-propene	41	3.213	3.214	-0.001	92	28409	2.00	2.16	
31 Methylene Chloride	84	3.308	3.309	-0.001	92	22322	2.00	2.01	
32 2-Methyl-2-propanol	59	3.350	3.351	-0.001	96	21901	20.0	21.0	
33 Acrylonitrile	53	3.467	3.467	0.000	99	94418	20.0	21.6	
34 Methyl tert-butyl ether	73	3.498	3.499	-0.001	96	54197	2.00	2.09	
35 trans-1,2-Dichloroethene	96	3.509	3.509	0.000	97	18947	2.00	2.09	
36 Hexane	57	3.709	3.710	-0.001	91	26560	2.00	2.14	
38 Vinyl acetate	43	3.804	3.805	-0.001	97	80611	4.00	4.12	
39 1,1-Dichloroethane	63	3.836	3.836	0.000	96	35499	2.00	2.14	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	4.216	4.216	0.000	99	46020	8.00	8.70	
47 cis-1,2-Dichloroethene	96	4.247	4.248	-0.001	84	21423	2.00	2.12	
48 2,2-Dichloropropane	77	4.258	4.258	0.000	92	23061	2.00	2.05	
50 sec-Butyl Alcohol	45	4.321	4.322	-0.001	97	47471	60.0	55.8	
52 Tetrahydrofuran	42	4.427	4.427	0.000	88	14739	4.00	4.20	
53 Chlorobromomethane	128	4.427	4.427	0.000	98	9931	2.00	2.20	
54 Chloroform	83	4.480	4.480	0.000	93	35178	2.00	2.21	
55 1,1,1-Trichloroethane	97	4.627	4.628	-0.001	98	27396	2.00	2.17	
56 Cyclohexane	56	4.691	4.691	0.000	89	33843	2.00	2.10	
57 1,1-Dichloropropene	75	4.743	4.744	-0.001	96	27826	2.00	2.10	
59 Carbon tetrachloride	117	4.743	4.754	-0.011	91	21806	2.00	2.11	
58 Isobutyl alcohol	41	4.743	4.754	-0.011	95	18462	50.0	50.3	
60 Benzene	78	4.891	4.902	-0.011	96	84162	2.00	2.15	
61 1,2-Dichloroethane	62	4.923	4.923	0.000	98	30197	2.00	2.13	
66 n-Heptane	43	5.081	5.082	-0.001	91	25333	2.00	2.17	
67 Trichloroethene	95	5.387	5.388	-0.001	97	20658	2.00	2.15	
68 2-Pentanone	43	5.482	5.483	-0.001	99	66130	8.00	8.41	
69 Methylcyclohexane	55	5.577	5.578	-0.001	93	25828	2.00	2.12	
70 1,2-Dichloropropane	63	5.598	5.599	-0.001	97	20818	2.00	2.06	
72 1,4-Dioxane	88	5.630	5.630	0.000	94	5492	40.0	39.1	
73 Dibromomethane	93	5.662	5.662	0.000	95	11931	2.00	2.06	
74 Dichlorobromomethane	83	5.788	5.789	-0.001	100	24474	2.00	2.09	
76 2-Chloroethyl vinyl ether	63	5.989	5.989	0.000	91	12997	2.00	1.86	
77 cis-1,3-Dichloropropene	75	6.136	6.137	-0.001	96	27908	2.00	1.96	
78 4-Methyl-2-pentanone (MIBK)	43	6.242	6.242	0.000	95	85733	8.00	8.49	
79 Toluene	91	6.432	6.432	0.000	98	89995	2.00	2.20	
80 trans-1,3-Dichloropropene	75	6.601	6.601	0.000	93	24304	2.00	1.89	
81 Ethyl methacrylate	69	6.622	6.622	0.000	90	25633	2.00	1.96	
82 1,1,2-Trichloroethane	97	6.780	6.781	-0.001	91	16908	2.00	2.05	
83 Tetrachloroethene	164	6.875	6.876	-0.001	96	13615	2.00	2.10	
84 1,3-Dichloropropane	76	6.928	6.928	0.000	90	33064	2.00	2.12	
85 2-Hexanone	43	6.938	6.939	-0.001	96	59708	8.00	8.35	
86 Chlorodibromomethane	129	7.118	7.118	0.000	91	15559	2.00	1.94	
88 Ethylene Dibromide	107	7.234	7.245	-0.011	99	17428	2.00	2.01	
89 1-Chlorohexane	91	7.624	7.635	-0.011	94	28696	2.00	2.10	
90 Chlorobenzene	112	7.677	7.678	-0.001	96	54491	2.00	2.17	
92 Ethylbenzene	106	7.751	7.751	0.000	99	29300	2.00	2.12	
91 1,1,1,2-Tetrachloroethane	131	7.740	7.751	-0.011	92	15334	2.00	1.98	
93 m-Xylene & p-Xylene	106	7.867	7.868	-0.001	99	35314	2.00	2.13	
94 o-Xylene	106	8.226	8.226	0.000	96	34157	2.00	2.14	
95 Styrene	104	8.247	8.247	0.000	95	55954	2.00	2.08	
96 Bromoform	173	8.426	8.427	-0.001	92	8987	2.00	1.90	
97 Isopropylbenzene	105	8.564	8.575	-0.011	96	85484	2.00	2.14	
99 Cyclohexanone	55	8.659	8.670	-0.011	92	44758	80.0	82.2	
100 1,1,2,2-Tetrachloroethane	83	8.848	8.859	-0.011	94	24163	2.00	2.06	
101 Bromobenzene	156	8.891	8.891	0.000	97	19650	2.00	2.08	
102 trans-1,4-Dichloro-2-butene	53	8.891	8.891	0.000	51	6156	2.00	1.98	
103 1,2,3-Trichloropropane	110	8.922	8.923	-0.001	83	7957	2.00	2.24	
104 N-Propylbenzene	120	8.965	8.965	0.000	99	23713	2.00	2.14	
105 2-Chlorotoluene	126	9.070	9.071	-0.001	96	20430	2.00	2.18	
106 1,3,5-Trimethylbenzene	105	9.144	9.144	0.000	93	68689	2.00	2.09	
107 4-Chlorotoluene	126	9.186	9.187	-0.001	98	20005	2.00	2.04	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 tert-Butylbenzene	119	9.450	9.450	0.000	93	57918	2.00	2.11	
109 1,2,4-Trimethylbenzene	105	9.503	9.514	-0.011	97	69183	2.00	2.09	
110 sec-Butylbenzene	134	9.672	9.672	0.000	94	17482	2.00	2.18	
111 1,3-Dichlorobenzene	146	9.798	9.799	-0.001	96	36396	2.00	2.13	
112 4-Isopropyltoluene	119	9.819	9.820	-0.001	96	69322	2.00	2.07	
113 1,4-Dichlorobenzene	146	9.893	9.904	-0.011	93	39277	2.00	2.22	
115 n-Butylbenzene	91	10.220	10.221	-0.001	98	65241	2.00	2.09	
116 1,2-Dichlorobenzene	146	10.252	10.252	0.000	95	35697	2.00	2.11	
117 1,2-Dibromo-3-Chloropropane	157	11.033	11.033	0.000	78	3868	2.00	1.95	
119 1,2,4-Trichlorobenzene	180	11.856	11.856	0.000	94	18390	2.00	1.99	
120 Hexachlorobutadiene	225	12.004	12.004	0.000	94	7277	2.00	2.17	
121 Naphthalene	128	12.130	12.131	-0.001	97	56079	2.00	1.88	
122 1,2,3-Trichlorobenzene	180	12.352	12.352	0.000	94	16904	2.00	1.99	
S 139 1,2-Dichloroethene, Total (URS)	96				0		4.00	4.21	
S 142 Xylenes, Total	106				0		4.00	4.27	
S 140 Trihalomethanes, Total	1				0		8.00	8.14	
S 143 Xylenes, Total (URS)	1				0		4.00	4.27	
S 146 Total BTEX	1				0			10.7	
S 145 1,3-Dichloropropene, Total	1				0		4.00	3.85	
S 144 1,2-Dichloroethene, Total	1				0		4.00	4.21	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MV-Gas A_00058	Amount Added:	0.40	Units: uL	
MV-MegaMainA_00034	Amount Added:	1.00	Units: uL	
mv-IS_SS_00001	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 02-Jun-2020 11:15:55 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1660.D

Injection Date: 01-Jun-2020 17:09:30 Instrument ID: VMS_P Operator ID: SEIFERTJ

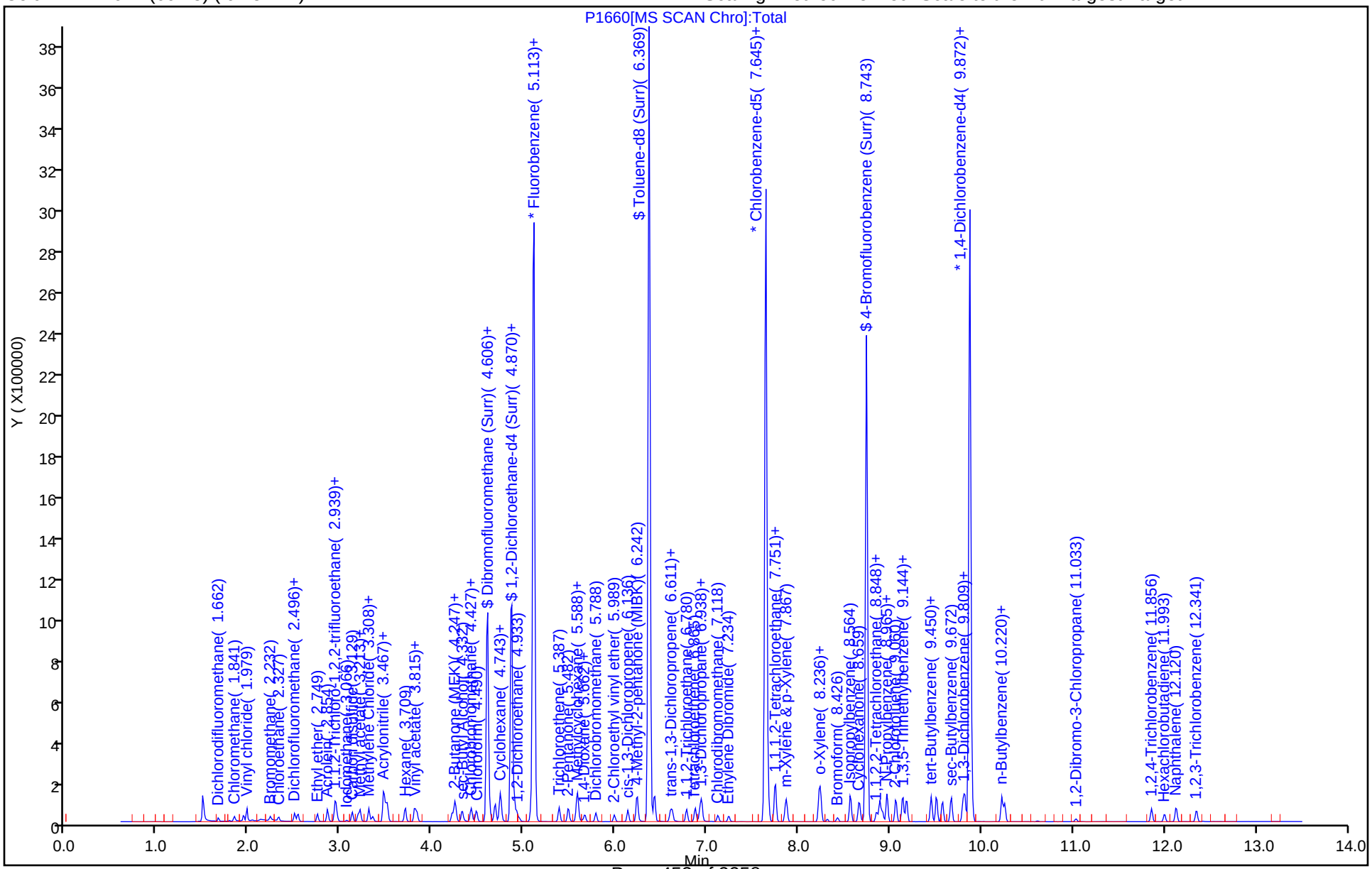
Lims ID: STD020 Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

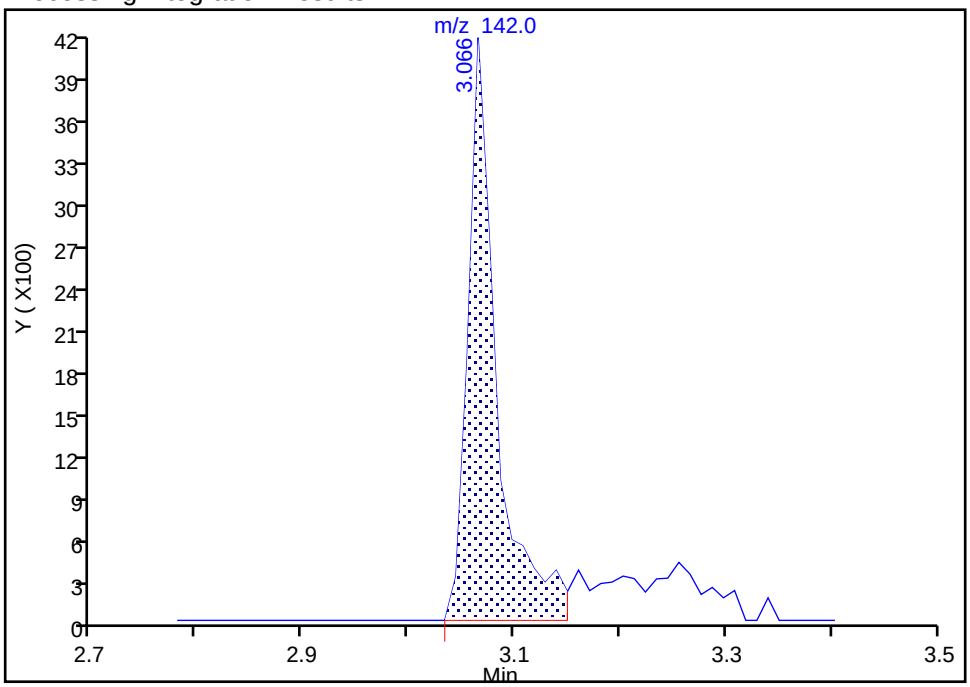
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1660.D
Injection Date: 01-Jun-2020 17:09:30 Instrument ID: VMS_P
Lims ID: STD020
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 3 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

26 Iodomethane, CAS: 74-88-4

Signal: 1

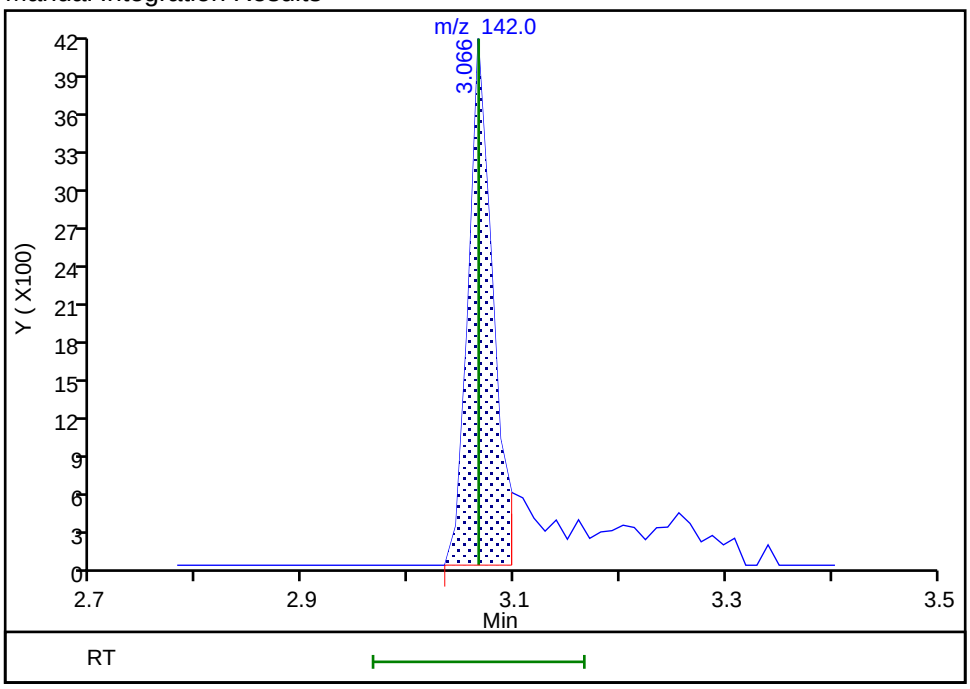
Processing Integration Results

RT: 3.07
Area: 7827
Amount: 3.551540
Amount Units: ug/l



Manual Integration Results

RT: 3.07
Area: 6724
Amount: 1.596067
Amount Units: ug/l



Reviewer: seifertj, 02-Jun-2020 09:06:25
Audit Action: Manually Integrated Audit Reason: Peak Tail

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1661.D
Lims ID: STD050
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 01-Jun-2020 17:30:30 ALS Bottle#: 4 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD050
Operator ID: SEIFERTJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jun-2020 11:16:06 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1054

First Level Reviewer: ornelasg Date: 01-Jun-2020 21:00:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.110	5.113	-0.003	98	2412254	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.643	7.646	-0.003	87	544917	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.870	9.873	-0.003	97	777688	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.604	4.607	-0.003	92	579846	50.0	49.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.868	4.871	-0.003	98	691950	50.0	50.6	
$ 6 Toluene-d8 (Surr)	98	6.366	6.369	-0.003	93	2407178	50.0	50.2	
$ 7 4-Bromofluorobenzene (Surr)	95	8.740	8.743	-0.003	82	867537	50.0	50.5	
10 Dichlorodifluoromethane	85	1.670	1.662	0.008	99	38285	5.00	5.66	
11 Chloromethane	50	1.839	1.842	-0.003	99	51981	5.00	5.38	
12 Vinyl chloride	62	1.944	1.937	0.007	98	57213	5.00	5.42	
14 Bromomethane	94	2.229	2.232	-0.003	89	22950	5.00	4.15	
15 Chloroethane	64	2.324	2.327	-0.003	100	35486	5.00	5.28	
16 Dichlorofluoromethane	67	2.493	2.496	-0.003	97	81685	5.00	5.20	
17 Trichlorofluoromethane	101	2.535	2.538	-0.003	98	70991	5.00	5.45	
19 Ethyl ether	59	2.747	2.749	-0.003	90	39315	5.00	4.79	
21 Acrolein	56	2.852	2.855	-0.003	99	100409	49.4	49.5	
22 1,1-Dichloroethene	96	2.947	2.939	0.008	98	35001	5.00	4.48	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.947	2.939	0.008	71	26144	5.00	4.45	
24 Acetone	43	2.958	2.960	-0.002	100	70934	20.0	21.1	
26 Iodomethane	142	3.063	3.066	-0.003	99	15949	5.00	2.79	
27 Carbon disulfide	76	3.126	3.129	-0.003	99	113233	5.00	4.43	
29 Methyl acetate	43	3.190	3.193	-0.003	98	81580	10.0	9.95	
30 3-Chloro-1-propene	41	3.211	3.214	-0.003	92	59709	5.00	4.46	
31 Methylene Chloride	84	3.306	3.309	-0.003	90	47489	5.00	4.79	
32 2-Methyl-2-propanol	59	3.348	3.351	-0.003	97	58678	50.0	55.5	
33 Acrylonitrile	53	3.475	3.467	0.008	98	221256	50.0	49.8	
34 Methyl tert-butyl ether	73	3.496	3.499	-0.003	96	124365	5.00	4.72	
35 trans-1,2-Dichloroethene	96	3.517	3.509	0.008	98	41058	5.00	4.45	
36 Hexane	57	3.707	3.710	-0.003	90	56864	5.00	4.47	
38 Vinyl acetate	43	3.812	3.805	0.007	97	190703	10.0	9.60	
39 1,1-Dichloroethane	63	3.833	3.836	-0.003	96	78561	5.00	4.66	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	4.213	4.216	-0.003	99	113733	20.0	21.2	
47 cis-1,2-Dichloroethene	96	4.245	4.248	-0.003	83	45860	5.00	4.47	
48 2,2-Dichloropropane	77	4.256	4.258	-0.002	93	50592	5.00	4.43	
50 sec-Butyl Alcohol	45	4.329	4.322	0.007	98	138755	150.0	160.5	
52 Tetrahydrofuran	42	4.435	4.427	0.008	87	36254	10.0	10.2	
53 Chlorobromomethane	128	4.424	4.427	-0.003	98	20887	5.00	4.55	
54 Chloroform	83	4.488	4.480	0.008	93	74923	5.00	4.63	
55 1,1,1-Trichloroethane	97	4.625	4.628	-0.003	99	58098	5.00	4.53	
56 Cyclohexane	56	4.688	4.691	-0.003	89	72517	5.00	4.44	
57 1,1-Dichloropropene	75	4.741	4.744	-0.003	96	60834	5.00	4.53	
59 Carbon tetrachloride	117	4.752	4.754	-0.002	77	45792	5.00	4.36	
58 Isobutyl alcohol	41	4.752	4.754	-0.002	94	51802	125.0	138.8	
60 Benzene	78	4.899	4.902	-0.003	94	184836	5.00	4.66	
61 1,2-Dichloroethane	62	4.920	4.923	-0.003	97	64913	5.00	4.90	
66 n-Heptane	43	5.079	5.082	-0.003	88	51836	5.00	4.37	
67 Trichloroethene	95	5.385	5.388	-0.003	97	42697	5.00	4.38	
68 2-Pentanone	43	5.490	5.483	0.007	99	169279	20.0	21.2	
69 Methylcyclohexane	55	5.585	5.578	0.007	92	55290	5.00	4.47	
70 1,2-Dichloropropane	63	5.596	5.599	-0.003	97	47629	5.00	4.64	
72 1,4-Dioxane	88	5.627	5.630	-0.003	92	15477	100.0	108.4	
73 Dibromomethane	93	5.670	5.662	0.008	93	28351	5.00	4.82	
74 Dichlorobromomethane	83	5.786	5.789	-0.003	99	54885	5.00	4.61	
76 2-Chloroethyl vinyl ether	63	5.986	5.989	-0.003	92	34848	5.00	4.91	
77 cis-1,3-Dichloropropene	75	6.134	6.137	-0.003	96	65109	5.00	4.46	
78 4-Methyl-2-pentanone (MIBK)	43	6.239	6.242	-0.003	96	216321	20.0	21.1	
79 Toluene	91	6.429	6.432	-0.003	98	191514	5.00	4.60	
80 trans-1,3-Dichloropropene	75	6.598	6.601	-0.003	95	55704	5.00	4.27	
81 Ethyl methacrylate	69	6.619	6.622	-0.003	89	63746	5.00	4.76	
82 1,1,2-Trichloroethane	97	6.778	6.781	-0.003	90	41158	5.00	4.90	
83 Tetrachloroethene	164	6.873	6.876	-0.003	94	29875	5.00	4.50	
84 1,3-Dichloropropane	76	6.925	6.928	-0.003	97	76780	5.00	4.81	
85 2-Hexanone	43	6.936	6.939	-0.003	95	159597	20.0	21.8	
86 Chlorodibromomethane	129	7.126	7.118	0.008	89	37770	5.00	4.60	
88 Ethylene Dibromide	107	7.242	7.245	-0.003	98	40577	5.00	4.58	
89 1-Chlorohexane	91	7.632	7.635	-0.003	95	56622	5.00	4.39	
90 Chlorobenzene	112	7.675	7.678	-0.003	93	115938	5.00	4.50	
92 Ethylbenzene	106	7.749	7.751	-0.002	99	63884	5.00	4.51	
91 1,1,1,2-Tetrachloroethane	131	7.749	7.751	-0.002	43	36611	5.00	4.61	
93 m-Xylene & p-Xylene	106	7.865	7.868	-0.003	100	76090	5.00	4.47	
94 o-Xylene	106	8.223	8.226	-0.003	98	75177	5.00	4.60	
95 Styrene	104	8.245	8.247	-0.003	94	124441	5.00	4.52	
96 Bromoform	173	8.424	8.427	-0.003	93	22527	5.00	4.65	
97 Isopropylbenzene	105	8.572	8.575	-0.003	96	188253	5.00	4.62	
99 Cyclohexanone	55	8.667	8.670	-0.003	92	127996	200.0	229.4	
100 1,1,2,2-Tetrachloroethane	83	8.857	8.859	-0.002	94	62677	5.00	5.25	
101 Bromobenzene	156	8.888	8.891	-0.003	96	45419	5.00	4.73	
102 trans-1,4-Dichloro-2-butene	53	8.888	8.891	-0.003	76	16098	5.00	5.08	
103 1,2,3-Trichloropropane	110	8.920	8.923	-0.003	82	18290	5.00	5.05	
104 N-Propylbenzene	120	8.973	8.965	0.008	99	48994	5.00	4.34	
105 2-Chlorotoluene	126	9.068	9.071	-0.003	96	44412	5.00	4.65	
106 1,3,5-Trimethylbenzene	105	9.142	9.144	-0.002	93	154872	5.00	4.63	
107 4-Chlorotoluene	126	9.184	9.187	-0.003	98	45363	5.00	4.53	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 tert-Butylbenzene	119	9.448	9.450	-0.002	93	125850	5.00	4.50	
109 1,2,4-Trimethylbenzene	105	9.511	9.514	-0.003	97	155733	5.00	4.61	
110 sec-Butylbenzene	134	9.669	9.672	-0.003	94	37379	5.00	4.57	
111 1,3-Dichlorobenzene	146	9.796	9.799	-0.003	96	82789	5.00	4.76	
112 4-Isopropyltoluene	119	9.817	9.820	-0.003	97	155069	5.00	4.54	
113 1,4-Dichlorobenzene	146	9.901	9.904	-0.003	94	84803	5.00	4.71	
115 n-Butylbenzene	91	10.218	10.221	-0.003	98	142782	5.00	4.48	
116 1,2-Dichlorobenzene	146	10.250	10.252	-0.002	97	82278	5.00	4.77	
117 1,2-Dibromo-3-Chloropropane	157	11.030	11.033	-0.003	88	10531	5.00	5.20	
119 1,2,4-Trichlorobenzene	180	11.854	11.856	-0.002	92	43433	5.00	4.62	
120 Hexachlorobutadiene	225	12.001	12.004	-0.003	96	15077	5.00	4.41	
121 Naphthalene	128	12.128	12.131	-0.003	97	150170	5.00	4.95	
122 1,2,3-Trichlorobenzene	180	12.350	12.352	-0.002	94	41611	5.00	4.82	
S 139 1,2-Dichloroethene, Total (URS)	96				0		10.0	8.92	
S 142 Xylenes, Total	106				0		10.0	9.07	
S 140 Trihalomethanes, Total	1				0		20.0	18.5	
S 143 Xylenes, Total (URS)	1				0		10.0	9.07	
S 146 Total BTEX	1				0			22.8	
S 145 1,3-Dichloropropene, Total	1				0		10.0	8.73	
S 144 1,2-Dichloroethene, Total	1				0		10.0	8.92	

Reagents:

MV-Gas A_00058	Amount Added:	1.00	Units: uL		
MV-MegaMainA_00034	Amount Added:	2.50	Units: uL		
mv-IS_SS_00001	Amount Added:	5.00	Units: uL	Run Reagent	

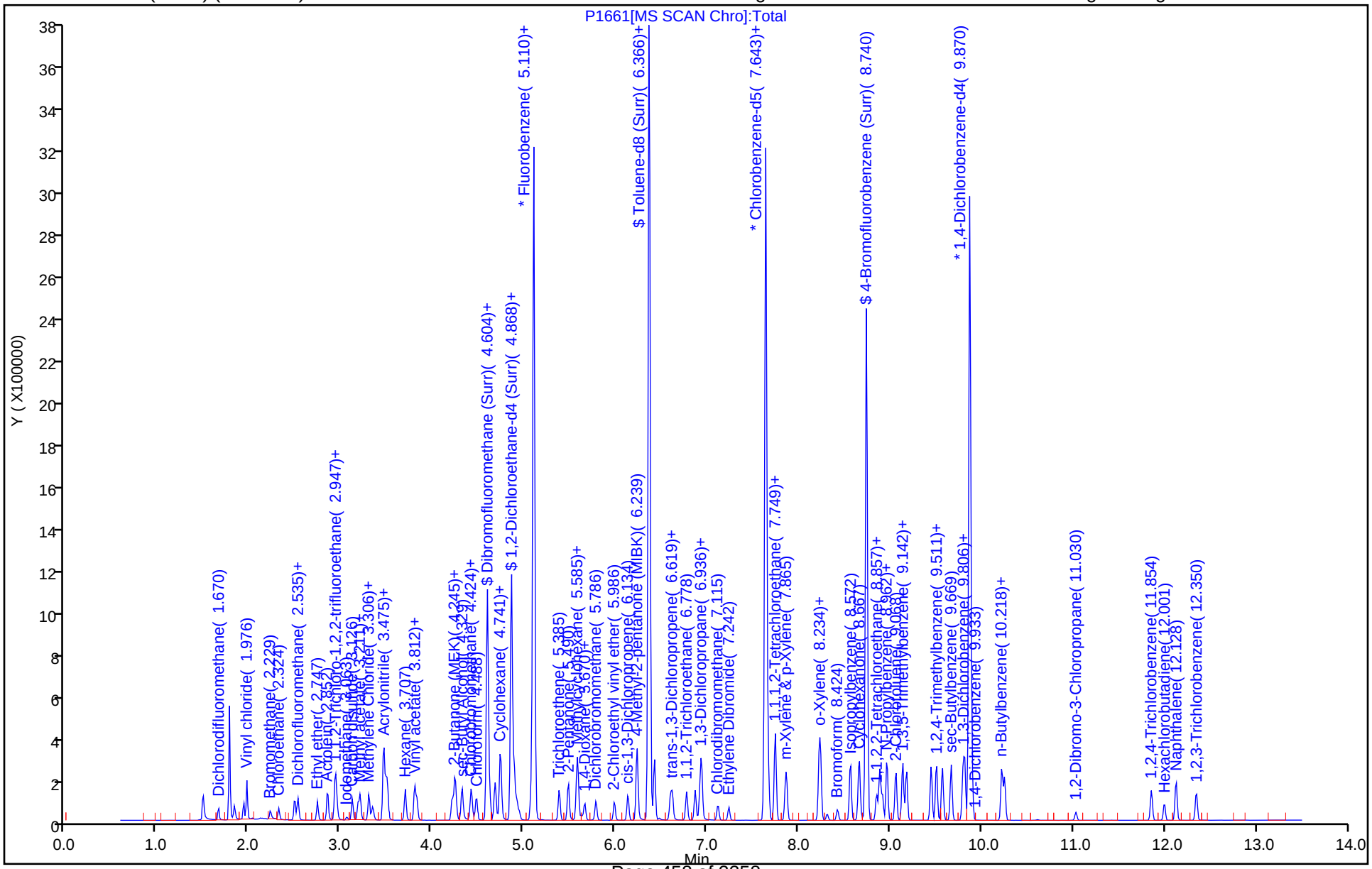
Report Date: 02-Jun-2020 11:16:07 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1661.D

Injection Date:	01-Jun-2020 17:30:30	Instrument ID:	VMS_P	Operator ID:	SEIFERTJ
Lims ID:	STD050			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1662.D
Lims ID: STD10
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 01-Jun-2020 17:51:30 ALS Bottle#: 5 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD10
Operator ID: SEIFERTJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jun-2020 11:16:17 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1054

First Level Reviewer: ornelasg Date: 01-Jun-2020 20:54:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.110	5.110	0.000	98	2414558	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.642	7.642	0.000	88	541707	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.869	9.869	0.000	97	784820	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.603	4.603	0.000	92	579503	50.0	49.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.867	4.867	0.000	98	696272	50.0	50.9	
$ 6 Toluene-d8 (Surr)	98	6.366	6.366	0.000	93	2397674	50.0	50.3	
$ 7 4-Bromofluorobenzene (Surr)	95	8.740	8.740	0.000	83	876843	50.0	50.6	
10 Dichlorodifluoromethane	85	1.670	1.670	0.000	99	76509	10.0	11.3	
11 Chloromethane	50	1.838	1.838	0.000	99	97832	10.0	10.4	
12 Vinyl chloride	62	1.944	1.944	0.000	98	110707	10.0	10.5	
14 Bromomethane	94	2.229	2.229	0.000	90	47958	10.0	10.6	
15 Chloroethane	64	2.324	2.324	0.000	100	69871	10.0	10.4	
16 Dichlorofluoromethane	67	2.493	2.493	0.000	97	157676	10.0	10.0	
17 Trichlorofluoromethane	101	2.535	2.535	0.000	97	134330	10.0	10.3	
19 Ethyl ether	59	2.746	2.746	0.000	92	81198	10.0	9.88	
21 Acrolein	56	2.851	2.851	0.000	100	198934	98.8	97.9	
22 1,1-Dichloroethene	96	2.946	2.946	0.000	97	78660	10.0	10.1	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.946	2.946	0.000	71	58580	10.0	9.96	
24 Acetone	43	2.957	2.957	0.000	100	131651	40.0	40.2	
26 Iodomethane	142	3.062	3.062	0.000	99	41908	10.0	6.20	
27 Carbon disulfide	76	3.126	3.126	0.000	99	249116	10.0	10.1	
29 Methyl acetate	43	3.189	3.189	0.000	98	163271	20.0	19.9	
30 3-Chloro-1-propene	41	3.210	3.210	0.000	92	135183	10.0	10.1	
31 Methylene Chloride	84	3.305	3.305	0.000	92	95819	10.0	10.2	
32 2-Methyl-2-propanol	59	3.347	3.347	0.000	97	106253	100.0	100.4	
33 Acrylonitrile	53	3.474	3.474	0.000	98	437925	100.0	98.5	
34 Methyl tert-butyl ether	73	3.495	3.495	0.000	95	265416	10.0	10.1	
35 trans-1,2-Dichloroethene	96	3.516	3.516	0.000	98	88732	10.0	9.61	
36 Hexane	57	3.706	3.706	0.000	91	130470	10.0	10.3	
38 Vinyl acetate	43	3.812	3.812	0.000	97	394091	20.0	19.8	
39 1,1-Dichloroethane	63	3.833	3.833	0.000	96	171592	10.0	10.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	4.213	4.213	0.000	100	221028	40.0	41.1	
47 cis-1,2-Dichloroethene	96	4.244	4.244	0.000	83	99347	10.0	9.68	
48 2,2-Dichloropropane	77	4.255	4.255	0.000	91	112216	10.0	9.82	
50 sec-Butyl Alcohol	45	4.329	4.329	0.000	98	265274	300.0	306.5	
52 Tetrahydrofuran	42	4.434	4.434	0.000	88	72173	20.0	20.2	
53 Chlorobromomethane	128	4.424	4.424	0.000	98	45134	10.0	9.81	
54 Chloroform	83	4.487	4.487	0.000	93	160425	10.0	9.89	
55 1,1,1-Trichloroethane	97	4.624	4.624	0.000	98	126621	10.0	9.86	
56 Cyclohexane	56	4.688	4.688	0.000	89	167527	10.0	10.2	
57 1,1-Dichloropropene	75	4.740	4.740	0.000	96	133932	10.0	9.96	
59 Carbon tetrachloride	117	4.751	4.751	0.000	84	105812	10.0	10.1	
58 Isobutyl alcohol	41	4.751	4.751	0.000	94	96963	250.0	259.6	
60 Benzene	78	4.899	4.899	0.000	93	392915	10.0	9.89	
61 1,2-Dichloroethane	62	4.920	4.920	0.000	97	130615	10.0	10.2	
66 n-Heptane	43	5.078	5.078	0.000	92	115523	10.0	9.74	
67 Trichloroethene	95	5.384	5.384	0.000	97	94360	10.0	9.67	
68 2-Pentanone	43	5.490	5.490	0.000	99	330037	40.0	41.3	
69 Methylcyclohexane	55	5.585	5.585	0.000	92	124604	10.0	10.1	
70 1,2-Dichloropropane	63	5.595	5.595	0.000	96	102772	10.0	10.0	
72 1,4-Dioxane	88	5.637	5.637	0.000	93	29303	200.0	205.1	
73 Dibromomethane	93	5.669	5.669	0.000	94	58752	10.0	9.98	
74 Dichlorobromomethane	83	5.785	5.785	0.000	100	116062	10.0	9.74	
76 2-Chloroethyl vinyl ether	63	5.986	5.986	0.000	92	69995	10.0	9.85	
77 cis-1,3-Dichloropropene	75	6.133	6.133	0.000	96	143800	10.0	9.90	
78 4-Methyl-2-pentanone (MIBK)	43	6.239	6.239	0.000	96	432244	40.0	42.1	
79 Toluene	91	6.429	6.429	0.000	97	412287	10.0	9.89	
80 trans-1,3-Dichloropropene	75	6.598	6.598	0.000	96	121709	10.0	9.33	
81 Ethyl methacrylate	69	6.619	6.619	0.000	89	136938	10.0	10.3	
82 1,1,2-Trichloroethane	97	6.777	6.777	0.000	91	83459	10.0	9.93	
83 Tetrachloroethene	164	6.872	6.872	0.000	94	64911	10.0	9.83	
84 1,3-Dichloropropane	76	6.925	6.925	0.000	97	159930	10.0	10.1	
85 2-Hexanone	43	6.946	6.946	0.000	95	307466	40.0	42.2	
86 Chlorodibromomethane	129	7.125	7.125	0.000	91	80520	10.0	9.87	
88 Ethylene Dibromide	107	7.241	7.241	0.000	97	88076	10.0	10.0	
89 1-Chlorohexane	91	7.632	7.632	0.000	98	124764	10.0	10.2	
90 Chlorobenzene	112	7.674	7.674	0.000	95	250839	10.0	9.79	
92 Ethylbenzene	106	7.748	7.748	0.000	99	139031	10.0	9.88	
91 1,1,1,2-Tetrachloroethane	131	7.748	7.748	0.000	94	76578	10.0	9.70	
93 m-Xylene & p-Xylene	106	7.864	7.864	0.000	100	167252	10.0	9.88	
94 o-Xylene	106	8.223	8.223	0.000	97	163211	10.0	10.0	
95 Styrene	104	8.244	8.244	0.000	94	274427	10.0	10.0	
96 Bromoform	173	8.423	8.423	0.000	94	47885	10.0	9.93	
97 Isopropylbenzene	105	8.571	8.571	0.000	96	412530	10.0	10.0	
99 Cyclohexanone	55	8.666	8.666	0.000	91	242913	400.0	437.9	
100 1,1,2,2-Tetrachloroethane	83	8.856	8.856	0.000	94	121592	10.0	10.1	
101 Bromobenzene	156	8.888	8.888	0.000	96	93464	10.0	9.64	
102 trans-1,4-Dichloro-2-butene	53	8.888	8.888	0.000	83	32840	10.0	10.3	
103 1,2,3-Trichloropropane	110	8.919	8.919	0.000	83	35882	10.0	9.82	
104 N-Propylbenzene	120	8.972	8.972	0.000	99	112695	10.0	9.90	
105 2-Chlorotoluene	126	9.067	9.067	0.000	96	94413	10.0	9.80	
106 1,3,5-Trimethylbenzene	105	9.141	9.141	0.000	94	337938	10.0	10.0	
107 4-Chlorotoluene	126	9.183	9.183	0.000	97	100456	10.0	9.95	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 tert-Butylbenzene	119	9.447	9.447	0.000	93	282847	10.0	10.0	
109 1,2,4-Trimethylbenzene	105	9.510	9.510	0.000	97	341971	10.0	10.0	
110 sec-Butylbenzene	134	9.669	9.669	0.000	95	80672	10.0	9.78	
111 1,3-Dichlorobenzene	146	9.795	9.795	0.000	97	174866	10.0	9.97	
112 4-Isopropyltoluene	119	9.816	9.816	0.000	97	345360	10.0	10.0	
113 1,4-Dichlorobenzene	146	9.901	9.901	0.000	93	176794	10.0	9.73	
115 n-Butylbenzene	91	10.217	10.217	0.000	98	318151	10.0	9.89	
116 1,2-Dichlorobenzene	146	10.249	10.249	0.000	95	169871	10.0	9.75	
117 1,2-Dibromo-3-Chloropropane	157	11.030	11.030	0.000	81	19998	10.0	9.79	
119 1,2,4-Trichlorobenzene	180	11.853	11.853	0.000	94	91087	10.0	9.61	
120 Hexachlorobutadiene	225	12.001	12.001	0.000	97	32937	10.0	9.55	
121 Naphthalene	128	12.127	12.127	0.000	97	300637	10.0	9.81	
122 1,2,3-Trichlorobenzene	180	12.349	12.349	0.000	96	82932	10.0	9.51	
S 139 1,2-Dichloroethene, Total (URS)	96				0		20.0	19.3	
S 142 Xylenes, Total	106				0		20.0	19.9	
S 140 Trihalomethanes, Total	1				0		40.0	39.4	
S 143 Xylenes, Total (URS)	1				0		20.0	19.9	
S 146 Total BTEX	1				0			49.6	
S 145 1,3-Dichloropropene, Total	1				0		20.0	19.2	
S 144 1,2-Dichloroethene, Total	1				0		20.0	19.3	

Reagents:

MV-Gas A_00058	Amount Added:	2.00	Units: uL		
MV-MegaMainA_00034	Amount Added:	5.00	Units: uL		
mv-IS_SS_00001	Amount Added:	5.00	Units: uL	Run Reagent	

Report Date: 02-Jun-2020 11:16:18 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1662.D

Injection Date: 01-Jun-2020 17:51:30 Instrument ID: VMS_P Operator ID: SEIFERTJ

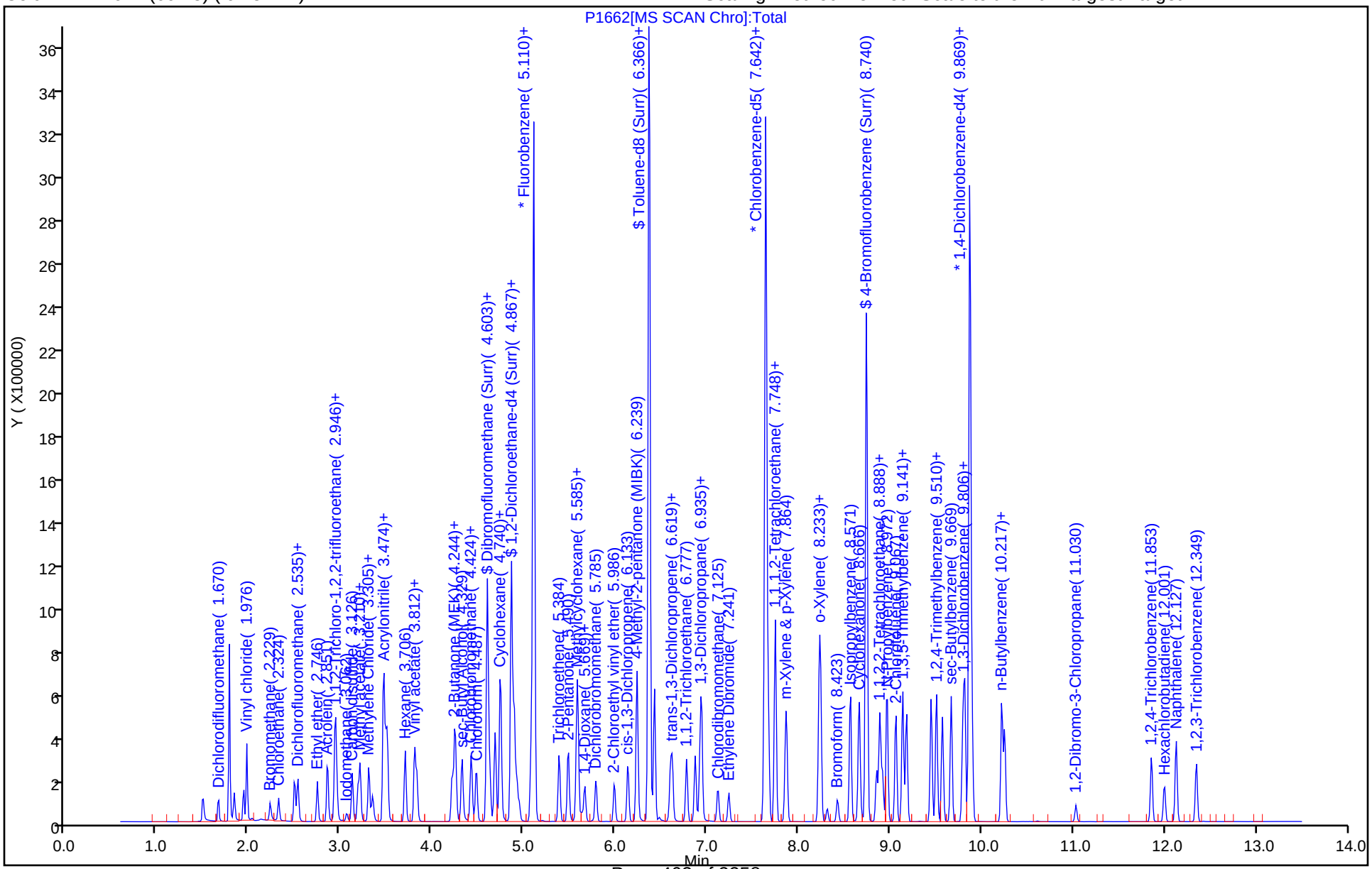
Lims ID: STD10 Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 01-Jun-2020 20:33:30 ALS Bottle#: 12 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS
Operator ID: SEIFERTJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jun-2020 11:16:29 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1054

First Level Reviewer: seifertj Date: 02-Jun-2020 09:23:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.113	5.113	0.000	99	2594633	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.646	7.646	0.000	87	589468	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.873	9.873	0.000	96	851368	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.607	4.607	0.000	93	622098	50.0	49.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.871	4.871	0.000	97	709192	50.0	48.2	
$ 6 Toluene-d8 (Surr)	98	6.369	6.369	0.000	93	2570054	50.0	49.5	
$ 7 4-Bromofluorobenzene (Surr)	95	8.743	8.743	0.000	84	937409	50.0	49.9	
10 Dichlorodifluoromethane	85	1.662	1.662	0.000	99	389403	50.0	53.5	
11 Chloromethane	50	1.842	1.842	0.000	99	518425	50.0	52.5	
12 Vinyl chloride	62	1.937	1.937	0.000	98	566674	50.0	49.9	
14 Bromomethane	94	2.232	2.232	0.000	90	267351	50.0	62.0	
15 Chloroethane	64	2.327	2.327	0.000	99	367238	50.0	50.8	
16 Dichlorofluoromethane	67	2.496	2.496	0.000	97	851263	50.0	50.4	
17 Trichlorofluoromethane	101	2.538	2.538	0.000	98	688909	50.0	49.1	
19 Ethyl ether	59	2.749	2.749	0.000	90	433032	50.0	49.0	
21 Acrolein	56	2.855	2.855	0.000	100	992240	493.8	454.6	
22 1,1-Dichloroethene	96	2.939	2.939	0.000	98	432834	50.0	51.5	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.939	2.939	0.000	72	323522	50.0	51.2	
24 Acetone	43	2.960	2.960	0.000	100	599119	200.0	174.0	
26 Iodomethane	142	3.066	3.066	0.000	99	388838	50.0	48.2	
27 Carbon disulfide	76	3.129	3.129	0.000	99	1445817	50.0	55.5	
29 Methyl acetate	43	3.193	3.193	0.000	98	774814	100.0	87.9	
30 3-Chloro-1-propene	41	3.214	3.214	0.000	94	767084	50.0	53.3	
31 Methylene Chloride	84	3.309	3.309	0.000	92	508123	50.0	52.4	
32 2-Methyl-2-propanol	59	3.351	3.351	0.000	98	476237	500.0	418.8	
33 Acrylonitrile	53	3.467	3.467	0.000	99	2147902	500.0	449.8	
34 Methyl tert-butyl ether	73	3.499	3.499	0.000	95	1410931	50.0	49.7	
35 trans-1,2-Dichloroethene	96	3.509	3.509	0.000	99	496599	50.0	50.1	
36 Hexane	57	3.710	3.710	0.000	91	719384	50.0	52.3	
38 Vinyl acetate	43	3.805	3.805	0.000	97	2295944	100.0	107.4	
39 1,1-Dichloroethane	63	3.836	3.836	0.000	96	913640	50.0	50.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	4.216	4.216	0.000	99	992035	200.0	171.5	
47 cis-1,2-Dichloroethene	96	4.248	4.248	0.000	83	546752	50.0	49.6	
48 2,2-Dichloropropane	77	4.258	4.258	0.000	88	674576	50.0	54.9	
50 sec-Butyl Alcohol	45	4.322	4.322	0.000	99	1213494	1500.0	1304.7	
53 Chlorobromomethane	128	4.427	4.427	0.000	98	246645	50.0	49.9	
52 Tetrahydrofuran	42	4.427	4.427	0.000	88	330688	100.0	86.2	
54 Chloroform	83	4.480	4.480	0.000	92	857391	50.0	49.2	
55 1,1,1-Trichloroethane	97	4.628	4.628	0.000	99	699182	50.0	50.7	
56 Cyclohexane	56	4.691	4.691	0.000	89	900566	50.0	51.3	
57 1,1-Dichloropropene	75	4.744	4.744	0.000	97	722099	50.0	50.0	
59 Carbon tetrachloride	117	4.754	4.754	0.000	93	593951	50.0	52.6	
58 Isobutyl alcohol	41	4.754	4.754	0.000	93	435234	1250.0	1084.5	
60 Benzene	78	4.902	4.902	0.000	95	2121944	50.0	49.7	
61 1,2-Dichloroethane	62	4.923	4.923	0.000	98	666788	50.0	49.8	
66 n-Heptane	43	5.082	5.082	0.000	91	652907	50.0	51.2	
67 Trichloroethene	95	5.388	5.388	0.000	98	527518	50.0	50.3	
68 2-Pentanone	43	5.483	5.483	0.000	99	1546919	200.0	180.0	
69 Methylcyclohexane	55	5.578	5.578	0.000	93	672553	50.0	50.5	
70 1,2-Dichloropropane	63	5.599	5.599	0.000	97	553580	50.0	50.2	
72 1,4-Dioxane	88	5.630	5.630	0.000	91	134765	1000.0	877.8	
73 Dibromomethane	93	5.662	5.662	0.000	93	310055	50.0	49.0	
74 Dichlorobromomethane	83	5.789	5.789	0.000	99	647111	50.0	50.6	
76 2-Chloroethyl vinyl ether	63	5.989	5.989	0.000	91	375914	50.0	49.3	
77 cis-1,3-Dichloropropene	75	6.137	6.137	0.000	96	830989	50.0	52.6	
78 4-Methyl-2-pentanone (MIBK)	43	6.242	6.242	0.000	95	2019078	200.0	183.0	
79 Toluene	91	6.432	6.432	0.000	98	2209256	50.0	49.3	
80 trans-1,3-Dichloropropene	75	6.601	6.601	0.000	97	739208	50.0	52.7	
81 Ethyl methacrylate	69	6.622	6.622	0.000	88	730677	50.0	50.4	
82 1,1,2-Trichloroethane	97	6.781	6.781	0.000	91	446203	50.0	49.4	
83 Tetrachloroethene	164	6.876	6.876	0.000	94	362210	50.0	50.4	
84 1,3-Dichloropropane	76	6.928	6.928	0.000	97	828087	50.0	48.0	
85 2-Hexanone	43	6.939	6.939	0.000	95	1421906	200.0	179.4	
86 Chlorodibromomethane	129	7.118	7.118	0.000	90	457646	50.0	51.6	
88 Ethylene Dibromide	107	7.245	7.245	0.000	98	459893	50.0	48.0	
89 1-Chlorohexane	91	7.635	7.635	0.000	97	688923	50.0	53.1	
90 Chlorobenzene	112	7.678	7.678	0.000	93	1351697	50.0	48.5	
92 Ethylbenzene	106	7.751	7.751	0.000	99	765475	50.0	50.0	
91 1,1,1,2-Tetrachloroethane	131	7.751	7.751	0.000	94	443921	50.0	51.7	
93 m-Xylene & p-Xylene	106	7.868	7.868	0.000	99	926436	50.0	50.3	
94 o-Xylene	106	8.226	8.226	0.000	96	889019	50.0	50.3	
95 Styrene	104	8.247	8.247	0.000	94	1535593	50.0	51.5	
96 Bromoform	173	8.427	8.427	0.000	95	272832	50.0	52.0	
97 Isopropylbenzene	105	8.575	8.575	0.000	96	2246623	50.0	50.4	
99 Cyclohexanone	55	8.670	8.670	0.000	91	1051966	2000.0	1742.8	
100 1,1,2,2-Tetrachloroethane	83	8.859	8.859	0.000	93	606034	50.0	46.4	
101 Bromobenzene	156	8.891	8.891	0.000	96	514975	50.0	49.0	
102 trans-1,4-Dichloro-2-butene	53	8.891	8.891	0.000	88	169990	50.0	49.0	
103 1,2,3-Trichloropropane	110	8.923	8.923	0.000	82	176525	50.0	44.6	
104 N-Propylbenzene	120	8.965	8.965	0.000	99	629799	50.0	51.0	
105 2-Chlorotoluene	126	9.071	9.071	0.000	96	525501	50.0	50.3	
106 1,3,5-Trimethylbenzene	105	9.144	9.144	0.000	94	1851899	50.0	50.6	
107 4-Chlorotoluene	126	9.187	9.187	0.000	97	547434	50.0	50.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 tert-Butylbenzene	119	9.450	9.450	0.000	93	1537848	50.0	50.3	
109 1,2,4-Trimethylbenzene	105	9.514	9.514	0.000	97	1874413	50.0	50.7	
110 sec-Butylbenzene	134	9.672	9.672	0.000	94	458007	50.0	51.2	
111 1,3-Dichlorobenzene	146	9.799	9.799	0.000	98	957029	50.0	50.3	
112 4-Isopropyltoluene	119	9.820	9.820	0.000	97	1944009	50.0	52.0	
113 1,4-Dichlorobenzene	146	9.904	9.904	0.000	95	970134	50.0	49.2	
115 n-Butylbenzene	91	10.221	10.221	0.000	98	1790989	50.0	51.3	
116 1,2-Dichlorobenzene	146	10.252	10.252	0.000	96	914029	50.0	48.4	
117 1,2-Dibromo-3-Chloropropane	157	11.033	11.033	0.000	83	102294	50.0	46.2	
119 1,2,4-Trichlorobenzene	180	11.856	11.856	0.000	94	527062	50.0	51.3	
120 Hexachlorobutadiene	225	12.004	12.004	0.000	98	198550	50.0	53.1	
121 Naphthalene	128	12.131	12.131	0.000	97	1593185	50.0	47.9	
122 1,2,3-Trichlorobenzene	180	12.352	12.352	0.000	95	473636	50.0	50.1	
S 139 1,2-Dichloroethene, Total (URS)	96				0		100.0	99.6	
S 142 Xylenes, Total	106				0		100.0	100.6	
S 140 Trihalomethanes, Total	1				0		200.0	203.3	
S 143 Xylenes, Total (URS)	1				0		100.0	100.6	
S 145 1,3-Dichloropropene, Total	1				0		100.0	105.3	
S 144 1,2-Dichloroethene, Total	1				0		100.0	99.6	

Reagents:

MV-Gas A_00058	Amount Added: 10.00	Units: uL	
MV-MegaMainA_00034	Amount Added: 25.00	Units: uL	
mv-IS_SS_00001	Amount Added: 5.00	Units: uL	Run Reagent

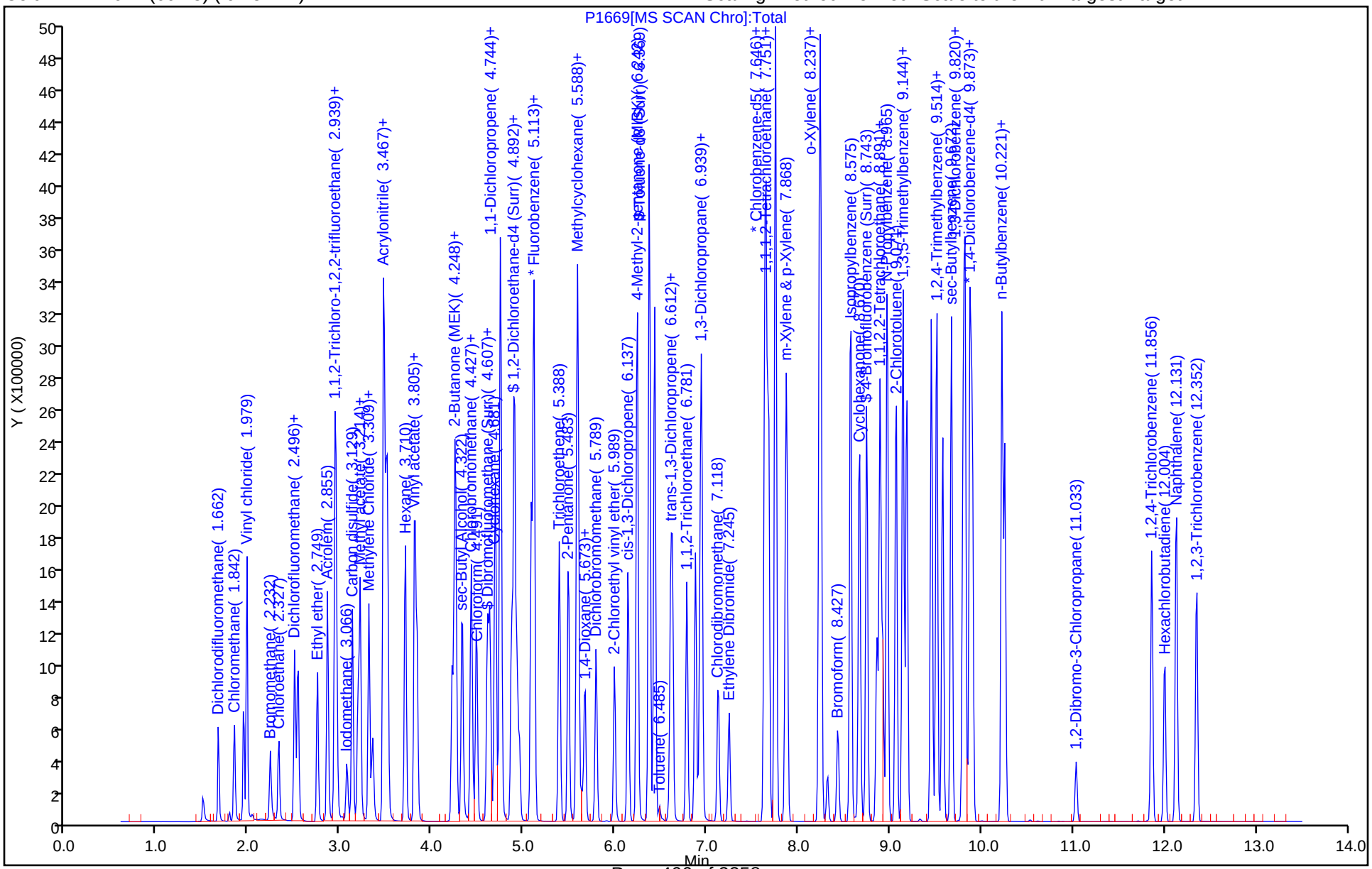
Report Date: 02-Jun-2020 11:16:30 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Injection Date:	01-Jun-2020 20:33:30	Instrument ID:	VMS_P	Operator ID:	SEIFERTJ
Lims ID:	ICIS			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1664.D
Lims ID: STD75
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 01-Jun-2020 18:33:30 ALS Bottle#: 7 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD75
Operator ID: SEIFERTJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jun-2020 11:16:41 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1054

First Level Reviewer: ornelasg Date: 01-Jun-2020 21:41:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.111	5.113	-0.002	98	2518102	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.643	7.646	-0.003	86	570208	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.870	9.873	-0.003	96	835018	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.604	4.607	-0.003	95	607631	50.0	50.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.868	4.871	-0.003	97	706747	50.0	49.5	
$ 6 Toluene-d8 (Surr)	98	6.366	6.369	-0.003	93	2503188	50.0	49.9	
$ 7 4-Bromofluorobenzene (Surr)	95	8.741	8.743	-0.002	83	914750	50.0	49.6	
10 Dichlorodifluoromethane	85	1.660	1.662	-0.002	99	565032	75.0	80.0	
11 Chloromethane	50	1.839	1.842	-0.003	99	753095	75.0	78.7	
12 Vinyl chloride	62	1.945	1.937	0.008	98	831473	75.0	75.4	
14 Bromomethane	94	2.219	2.232	-0.013	90	288045	75.0	69.1	
15 Chloroethane	64	2.314	2.327	-0.013	99	519320	75.0	74.0	
16 Dichlorofluoromethane	67	2.494	2.496	-0.002	97	1256526	75.0	76.7	
17 Trichlorofluoromethane	101	2.525	2.538	-0.013	98	1029796	75.0	75.7	
19 Ethyl ether	59	2.747	2.749	-0.002	91	636933	75.0	74.3	
21 Acrolein	56	2.852	2.855	-0.003	100	1531495	740.6	723.0	
22 1,1-Dichloroethene	96	2.937	2.939	-0.002	97	614318	75.0	75.3	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.937	2.939	-0.002	72	455666	75.0	74.3	
24 Acetone	43	2.958	2.960	-0.002	99	986514	300.0	296.2	
26 Iodomethane	142	3.063	3.066	-0.003	99	649402	75.0	82.4	
27 Carbon disulfide	76	3.127	3.129	-0.002	99	1991209	75.0	78.8	
29 Methyl acetate	43	3.190	3.193	-0.003	98	1272496	150.0	148.7	
30 3-Chloro-1-propene	41	3.211	3.214	-0.003	93	1048018	75.0	75.0	
31 Methylene Chloride	84	3.306	3.309	-0.003	91	726350	75.0	77.4	
32 2-Methyl-2-propanol	59	3.348	3.351	-0.003	98	844878	750.0	765.5	
33 Acrylonitrile	53	3.464	3.467	-0.003	98	3422488	750.0	738.5	
34 Methyl tert-butyl ether	73	3.496	3.499	-0.003	95	2097701	75.0	76.2	
35 trans-1,2-Dichloroethene	96	3.507	3.509	-0.002	98	699589	75.0	72.7	
36 Hexane	57	3.707	3.710	-0.003	90	991684	75.0	74.6	
38 Vinyl acetate	43	3.802	3.805	-0.003	97	3210150	150.0	154.8	
39 1,1-Dichloroethane	63	3.834	3.836	-0.002	96	1324489	75.0	75.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	4.214	4.216	-0.002	99	1657714	300.0	295.3	
47 cis-1,2-Dichloroethene	96	4.245	4.248	-0.003	83	785590	75.0	73.4	
48 2,2-Dichloropropane	77	4.256	4.258	-0.002	90	916619	75.0	76.9	
50 sec-Butyl Alcohol	45	4.330	4.322	0.008	99	2164234	2250.0	2397.6	
53 Chlorobromomethane	128	4.425	4.427	-0.002	98	349155	75.0	72.8	
52 Tetrahydrofuran	42	4.435	4.427	0.008	87	554326	150.0	149.0	
54 Chloroform	83	4.477	4.480	-0.003	92	1234280	75.0	73.0	
55 1,1,1-Trichloroethane	97	4.625	4.628	-0.003	98	1007366	75.0	75.2	
56 Cyclohexane	56	4.689	4.691	-0.002	89	1295262	75.0	76.0	
57 1,1-Dichloropropene	75	4.741	4.744	-0.003	98	1052218	75.0	75.0	
59 Carbon tetrachloride	117	4.752	4.754	-0.002	95	845679	75.0	77.2	
58 Isobutyl alcohol	41	4.752	4.754	-0.002	95	768829	1875.0	1973.9	
60 Benzene	78	4.900	4.902	-0.002	95	3064336	75.0	73.9	
61 1,2-Dichloroethane	62	4.921	4.923	-0.002	98	978504	75.0	75.5	
66 n-Heptane	43	5.079	5.082	-0.003	92	896848	75.0	72.5	
67 Trichloroethene	95	5.385	5.388	-0.003	98	740389	75.0	72.8	
68 2-Pentanone	43	5.480	5.483	-0.003	99	2572976	300.0	308.5	
69 Methylcyclohexane	55	5.586	5.578	0.008	92	963441	75.0	74.6	
70 1,2-Dichloropropane	63	5.596	5.599	-0.003	97	811193	75.0	75.8	
72 1,4-Dioxane	88	5.638	5.630	0.008	92	224792	1500.0	1508.6	
73 Dibromomethane	93	5.670	5.662	0.008	93	460404	75.0	75.0	
74 Dichlorobromomethane	83	5.786	5.789	-0.003	100	943348	75.0	75.9	
76 2-Chloroethyl vinyl ether	63	5.987	5.989	-0.002	91	598010	75.0	80.7	
77 cis-1,3-Dichloropropene	75	6.134	6.137	-0.003	96	1216450	75.0	79.5	
78 4-Methyl-2-pentanone (MIBK)	43	6.240	6.242	-0.002	95	3333758	300.0	311.3	
79 Toluene	91	6.430	6.432	-0.002	98	3185871	75.0	73.3	
80 trans-1,3-Dichloropropene	75	6.599	6.601	-0.002	97	1084089	75.0	79.7	
81 Ethyl methacrylate	69	6.620	6.622	-0.002	86	1123161	75.0	80.1	
82 1,1,2-Trichloroethane	97	6.778	6.781	-0.003	91	664027	75.0	75.7	
83 Tetrachloroethene	164	6.873	6.876	-0.003	94	517985	75.0	74.5	
84 1,3-Dichloropropane	76	6.926	6.928	-0.002	98	1228848	75.0	73.6	
85 2-Hexanone	43	6.936	6.939	-0.003	95	2396568	300.0	312.6	
86 Chlorodibromomethane	129	7.126	7.118	0.008	90	681438	75.0	79.4	
88 Ethylene Dibromide	107	7.242	7.245	-0.003	98	688729	75.0	74.2	
89 1-Chlorohexane	91	7.633	7.635	-0.002	97	968916	75.0	77.3	
90 Chlorobenzene	112	7.675	7.678	-0.003	94	1952494	75.0	72.4	
92 Ethylbenzene	106	7.749	7.751	-0.002	98	1112684	75.0	75.1	
91 1,1,1,2-Tetrachloroethane	131	7.749	7.751	-0.002	95	649959	75.0	78.2	
93 m-Xylene & p-Xylene	106	7.865	7.868	-0.003	99	1337167	75.0	75.1	
94 o-Xylene	106	8.224	8.226	-0.002	97	1297286	75.0	75.8	
95 Styrene	104	8.245	8.247	-0.002	94	2225643	75.0	77.2	
96 Bromoform	173	8.424	8.427	-0.003	95	419665	75.0	82.7	
97 Isopropylbenzene	105	8.572	8.575	-0.003	96	3269113	75.0	74.8	
99 Cyclohexanone	55	8.667	8.670	-0.003	91	1820858	3000.0	3118.6	
100 1,1,2,2-Tetrachloroethane	83	8.857	8.859	-0.002	93	923777	75.0	72.1	
101 Bromobenzene	156	8.889	8.891	-0.002	95	750457	75.0	72.8	
102 trans-1,4-Dichloro-2-butene	53	8.889	8.891	-0.002	87	263640	75.0	77.5	
103 1,2,3-Trichloropropane	110	8.920	8.923	-0.003	82	274122	75.0	70.5	
104 N-Propylbenzene	120	8.973	8.965	0.008	99	900621	75.0	74.4	
105 2-Chlorotoluene	126	9.068	9.071	-0.003	96	761914	75.0	74.3	
106 1,3,5-Trimethylbenzene	105	9.142	9.144	-0.002	94	2718338	75.0	75.8	
107 4-Chlorotoluene	126	9.184	9.187	-0.003	97	790475	75.0	73.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 tert-Butylbenzene	119	9.448	9.450	-0.002	93	2228828	75.0	74.3	
109 1,2,4-Trimethylbenzene	105	9.511	9.514	-0.003	97	2711650	75.0	74.8	
110 sec-Butylbenzene	134	9.669	9.672	-0.003	94	658067	75.0	75.0	
111 1,3-Dichlorobenzene	146	9.796	9.799	-0.003	97	1405320	75.0	75.3	
112 4-Isopropyltoluene	119	9.817	9.820	-0.003	97	2775007	75.0	75.6	
113 1,4-Dichlorobenzene	146	9.902	9.904	-0.002	95	1422924	75.0	73.6	
115 n-Butylbenzene	91	10.218	10.221	-0.003	98	2558085	75.0	74.8	
116 1,2-Dichlorobenzene	146	10.250	10.252	-0.002	98	1365427	75.0	73.6	
117 1,2-Dibromo-3-Chloropropane	157	11.031	11.033	-0.002	83	173521	75.0	79.8	
119 1,2,4-Trichlorobenzene	180	11.854	11.856	-0.002	94	776485	75.0	77.0	
120 Hexachlorobutadiene	225	12.002	12.004	-0.002	97	277038	75.0	75.5	
121 Naphthalene	128	12.128	12.131	-0.003	98	2526472	75.0	77.5	
122 1,2,3-Trichlorobenzene	180	12.350	12.352	-0.002	95	716876	75.0	77.3	
S 139 1,2-Dichloroethene, Total (URS)	96				0		150.0	146.1	
S 142 Xylenes, Total	106				0		150.0	150.9	
S 140 Trihalomethanes, Total	1				0		300.0	311.0	
S 143 Xylenes, Total (URS)	1				0		150.0	150.9	
S 146 Total BTEX	1				0			373.3	
S 145 1,3-Dichloropropene, Total	1				0		150.0	159.2	
S 144 1,2-Dichloroethene, Total	1				0		150.0	146.1	

Reagents:

MV-Gas A_00058	Amount Added: 15.00	Units: uL	
MV-MegaMainA_00034	Amount Added: 37.50	Units: uL	
mv-IS_SS_00001	Amount Added: 5.00	Units: uL	Run Reagent

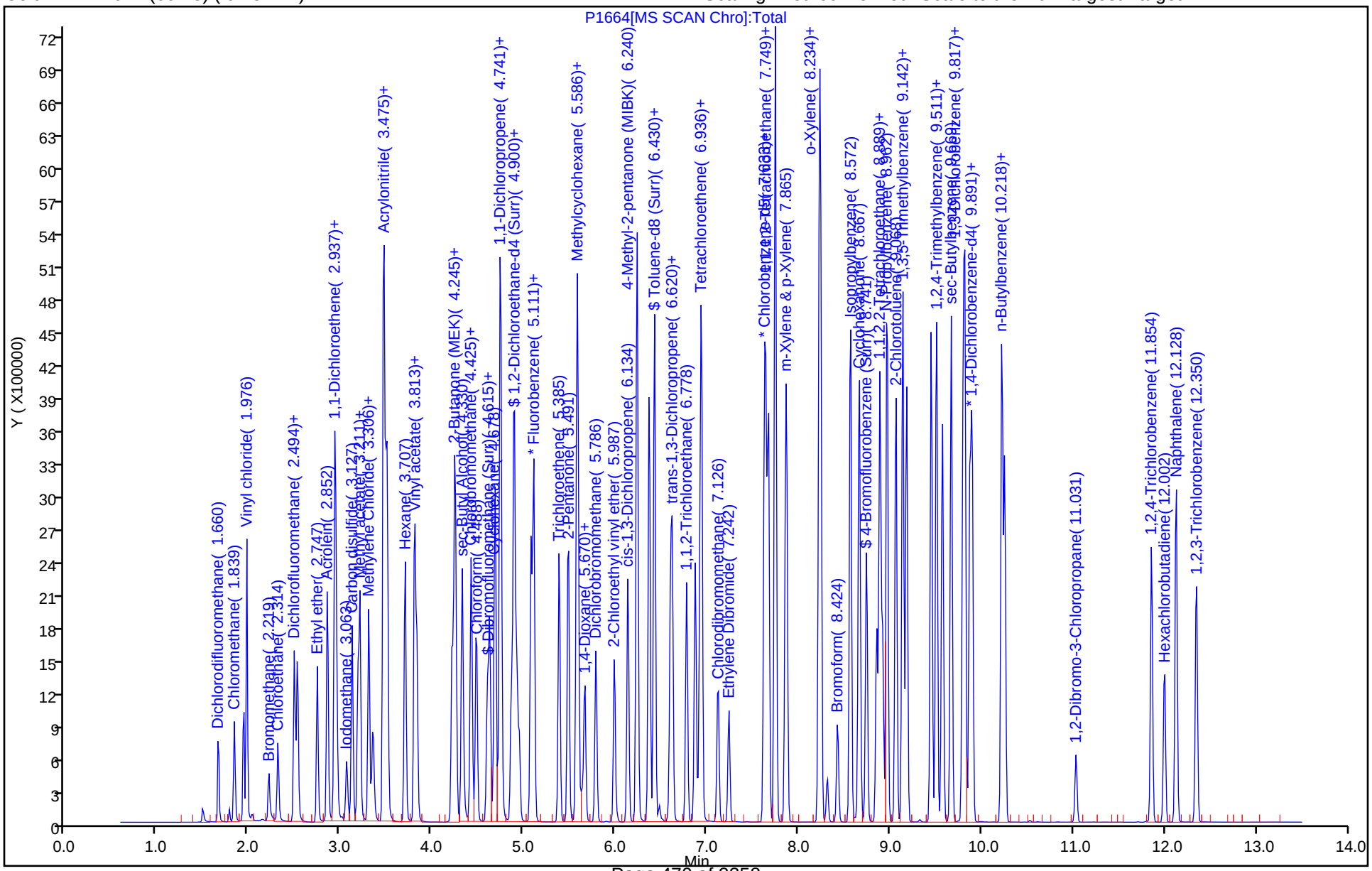
Report Date: 02-Jun-2020 11:16:42 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1664.D

Injection Date:	01-Jun-2020 18:33:30	Instrument ID:	VMS_P	Operator ID:	SEIFERTJ
Lims ID:	STD75			Worklist Smp#:	18
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1665.D
Lims ID: STD100
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 01-Jun-2020 18:55:30 ALS Bottle#: 8 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD100
Operator ID: SEIFERTJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jun-2020 11:16:54 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1054

First Level Reviewer: ornelasg Date: 01-Jun-2020 21:04:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.112	5.113	-0.001	98	2591417	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.645	7.646	-0.001	86	591785	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.871	9.873	-0.002	96	860796	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.606	4.607	-0.001	93	627480	50.0	50.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.869	4.871	-0.002	97	724426	50.0	49.3	
$ 6 Toluene-d8 (Surr)	98	6.368	6.369	-0.001	93	2573814	50.0	49.4	
$ 7 4-Bromofluorobenzene (Surr)	95	8.742	8.743	-0.001	84	928259	50.0	48.9	
10 Dichlorodifluoromethane	85	1.661	1.662	-0.001	99	732362	100.0	100.8	
11 Chloromethane	50	1.841	1.842	-0.001	99	960082	100.0	97.6	
12 Vinyl chloride	62	1.946	1.937	0.009	98	1065051	100.0	93.9	
14 Bromomethane	94	2.221	2.232	-0.011	90	440495	100.0	103.5	
15 Chloroethane	64	2.316	2.327	-0.011	99	677138	100.0	93.7	
16 Dichlorofluoromethane	67	2.495	2.496	-0.001	97	1626866	100.0	96.4	
17 Trichlorofluoromethane	101	2.527	2.538	-0.011	98	1332462	100.0	95.1	
19 Ethyl ether	59	2.748	2.749	-0.001	92	867417	100.0	98.3	
21 Acrolein	56	2.854	2.855	-0.001	100	2049494	987.5	940.2	
22 1,1-Dichloroethene	96	2.938	2.939	-0.001	97	803768	100.0	95.8	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.938	2.939	-0.001	71	583334	100.0	92.4	
24 Acetone	43	2.959	2.960	-0.001	100	1328269	400.0	387.8	
26 Iodomethane	142	3.065	3.066	-0.001	98	853782	100.0	105.0	
27 Carbon disulfide	76	3.128	3.129	-0.001	99	2649300	100.0	102.0	
29 Methyl acetate	43	3.192	3.193	-0.001	98	1718245	200.0	195.1	
30 3-Chloro-1-propene	41	3.213	3.214	-0.001	94	1398353	100.0	97.2	
31 Methylene Chloride	84	3.308	3.309	-0.001	92	982723	100.0	101.9	
32 2-Methyl-2-propanol	59	3.350	3.351	-0.001	98	1163015	1000.0	1023.9	
33 Acrylonitrile	53	3.466	3.467	-0.001	98	4584473	1000.0	961.2	
34 Methyl tert-butyl ether	73	3.498	3.499	-0.001	95	2851275	100.0	100.6	
35 trans-1,2-Dichloroethene	96	3.508	3.509	-0.001	98	932241	100.0	94.1	
36 Hexane	57	3.709	3.710	-0.001	90	1270824	100.0	92.1	
38 Vinyl acetate	43	3.804	3.805	-0.001	97	4053327	200.0	189.9	
39 1,1-Dichloroethane	63	3.835	3.836	-0.001	96	1757478	100.0	97.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	4.215	4.216	-0.001	99	2217162	400.0	383.8	
47 cis-1,2-Dichloroethene	96	4.247	4.248	-0.001	82	1058127	100.0	96.0	
48 2,2-Dichloropropane	77	4.257	4.258	-0.001	88	1229414	100.0	100.2	
50 sec-Butyl Alcohol	45	4.331	4.322	0.009	99	2977506	3000.0	3205.3	
53 Chlorobromomethane	128	4.426	4.427	-0.001	98	466481	100.0	94.5	
52 Tetrahydrofuran	42	4.426	4.427	-0.001	87	746007	200.0	194.8	
54 Chloroform	83	4.479	4.480	-0.001	92	1656789	100.0	95.2	
55 1,1,1-Trichloroethane	97	4.627	4.628	-0.001	98	1332750	100.0	96.7	
56 Cyclohexane	56	4.690	4.691	-0.001	89	1661826	100.0	94.7	
57 1,1-Dichloropropene	75	4.743	4.744	-0.001	98	1385678	100.0	96.0	
59 Carbon tetrachloride	117	4.753	4.754	-0.001	95	1123442	100.0	99.6	
58 Isobutyl alcohol	41	4.753	4.754	-0.001	95	1036679	2500.0	2586.3	
60 Benzene	78	4.891	4.902	-0.011	97	4103192	100.0	96.2	
61 1,2-Dichloroethane	62	4.922	4.923	-0.001	97	1314638	100.0	98.7	
66 n-Heptane	43	5.080	5.082	-0.002	92	1144406	100.0	89.9	
67 Trichloroethene	95	5.387	5.388	-0.001	98	992812	100.0	94.8	
68 2-Pentanone	43	5.482	5.483	-0.001	99	3459479	400.0	403.1	
69 Methylcyclohexane	55	5.576	5.578	-0.002	93	1240952	100.0	93.3	
70 1,2-Dichloropropane	63	5.598	5.599	-0.001	97	1087577	100.0	98.7	
72 1,4-Dioxane	88	5.629	5.630	-0.001	93	304422	2000.0	1985.3	
73 Dibromomethane	93	5.661	5.662	-0.001	94	622019	100.0	98.4	
74 Dichlorobromomethane	83	5.788	5.789	-0.001	100	1269877	100.0	99.3	
76 2-Chloroethyl vinyl ether	63	5.988	5.989	-0.001	91	777645	100.0	102.0	
77 cis-1,3-Dichloropropene	75	6.136	6.137	-0.001	98	1639115	100.0	103.3	
78 4-Methyl-2-pentanone (MIBK)	43	6.241	6.242	-0.001	95	4449408	400.0	403.7	
79 Toluene	91	6.431	6.432	-0.001	98	4226712	100.0	94.5	
80 trans-1,3-Dichloropropene	75	6.600	6.601	-0.001	97	1494637	100.0	106.8	
81 Ethyl methacrylate	69	6.621	6.622	-0.001	88	1529747	100.0	105.2	
82 1,1,2-Trichloroethane	97	6.780	6.781	-0.001	91	892221	100.0	98.9	
83 Tetrachloroethene	164	6.874	6.876	-0.002	94	680115	100.0	94.3	
84 1,3-Dichloropropane	76	6.927	6.928	-0.001	98	1654933	100.0	95.5	
85 2-Hexanone	43	6.938	6.939	-0.001	95	3222482	400.0	405.0	
86 Chlorodibromomethane	129	7.117	7.118	-0.001	90	927388	100.0	104.1	
88 Ethylene Dibromide	107	7.244	7.245	-0.001	98	939615	100.0	97.6	
89 1-Chlorohexane	91	7.634	7.635	-0.001	96	1287435	100.0	99.1	
90 Chlorobenzene	112	7.676	7.678	-0.002	94	2623954	100.0	93.7	
92 Ethylbenzene	106	7.750	7.751	-0.001	98	1466328	100.0	95.4	
91 1,1,1,2-Tetrachloroethane	131	7.750	7.751	-0.001	95	879154	100.0	102.0	
93 m-Xylene & p-Xylene	106	7.866	7.868	-0.002	99	1800340	100.0	97.4	
94 o-Xylene	106	8.225	8.226	-0.001	97	1734182	100.0	97.6	
95 Styrene	104	8.246	8.247	-0.001	95	2994821	100.0	100.1	
96 Bromoform	173	8.426	8.427	-0.001	95	580498	100.0	110.2	
97 Isopropylbenzene	105	8.573	8.575	-0.002	96	4297903	100.0	95.4	
99 Cyclohexanone	55	8.668	8.670	-0.002	91	2497231	4000.0	4121.1	
100 1,1,2,2-Tetrachloroethane	83	8.858	8.859	-0.001	94	1246192	100.0	94.4	
101 Bromobenzene	156	8.890	8.891	-0.001	96	1018637	100.0	95.8	
102 trans-1,4-Dichloro-2-butene	53	8.890	8.891	-0.001	88	362926	100.0	103.5	
103 1,2,3-Trichloropropane	110	8.922	8.923	-0.001	84	369781	100.0	92.3	
104 N-Propylbenzene	120	8.974	8.965	0.009	99	1208674	100.0	96.8	
105 2-Chlorotoluene	126	9.069	9.071	-0.002	96	1015287	100.0	96.0	
106 1,3,5-Trimethylbenzene	105	9.143	9.144	-0.001	94	3542571	100.0	95.8	
107 4-Chlorotoluene	126	9.186	9.187	-0.001	97	1069992	100.0	96.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 tert-Butylbenzene	119	9.449	9.450	-0.001	93	2956162	100.0	95.5	
109 1,2,4-Trimethylbenzene	105	9.513	9.514	-0.001	97	3612602	100.0	96.6	
110 sec-Butylbenzene	134	9.671	9.672	-0.001	94	863268	100.0	95.4	
111 1,3-Dichlorobenzene	146	9.798	9.799	-0.001	97	1879660	100.0	97.7	
112 4-Isopropyltoluene	119	9.819	9.820	-0.001	97	3687575	100.0	97.5	
113 1,4-Dichlorobenzene	146	9.903	9.904	-0.001	94	1893150	100.0	95.0	
115 n-Butylbenzene	91	10.220	10.221	-0.001	98	3366903	100.0	95.4	
116 1,2-Dichlorobenzene	146	10.251	10.252	-0.001	98	1816228	100.0	95.0	
117 1,2-Dibromo-3-Chloropropane	157	11.032	11.033	-0.001	83	237845	100.0	106.1	
119 1,2,4-Trichlorobenzene	180	11.855	11.856	-0.001	94	1050224	100.0	101.0	
120 Hexachlorobutadiene	225	12.003	12.004	-0.001	98	365804	100.0	96.7	
121 Naphthalene	128	12.130	12.131	-0.001	97	3438073	100.0	102.3	
122 1,2,3-Trichlorobenzene	180	12.351	12.352	-0.001	95	966833	100.0	101.1	
S 139 1,2-Dichloroethene, Total (URS)	96				0		200.0	190.2	
S 142 Xylenes, Total	106				0		200.0	195.0	
S 140 Trihalomethanes, Total	1				0		400.0	408.9	
S 143 Xylenes, Total (URS)	1				0		200.0	195.0	
S 146 Total BTEX	1				0			481.1	
S 145 1,3-Dichloropropene, Total	1				0		200.0	210.0	
S 144 1,2-Dichloroethene, Total	1				0		200.0	190.2	

Reagents:

MV-Gas A_00058	Amount Added:	20.00	Units: uL	
MV-MegaMainA_00034	Amount Added:	50.00	Units: uL	
mv-IS_SS_00001	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 02-Jun-2020 11:16:55 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1665.D

Injection Date: 01-Jun-2020 18:55:30 Instrument ID: VMS_P Operator ID: SEIFERTJ

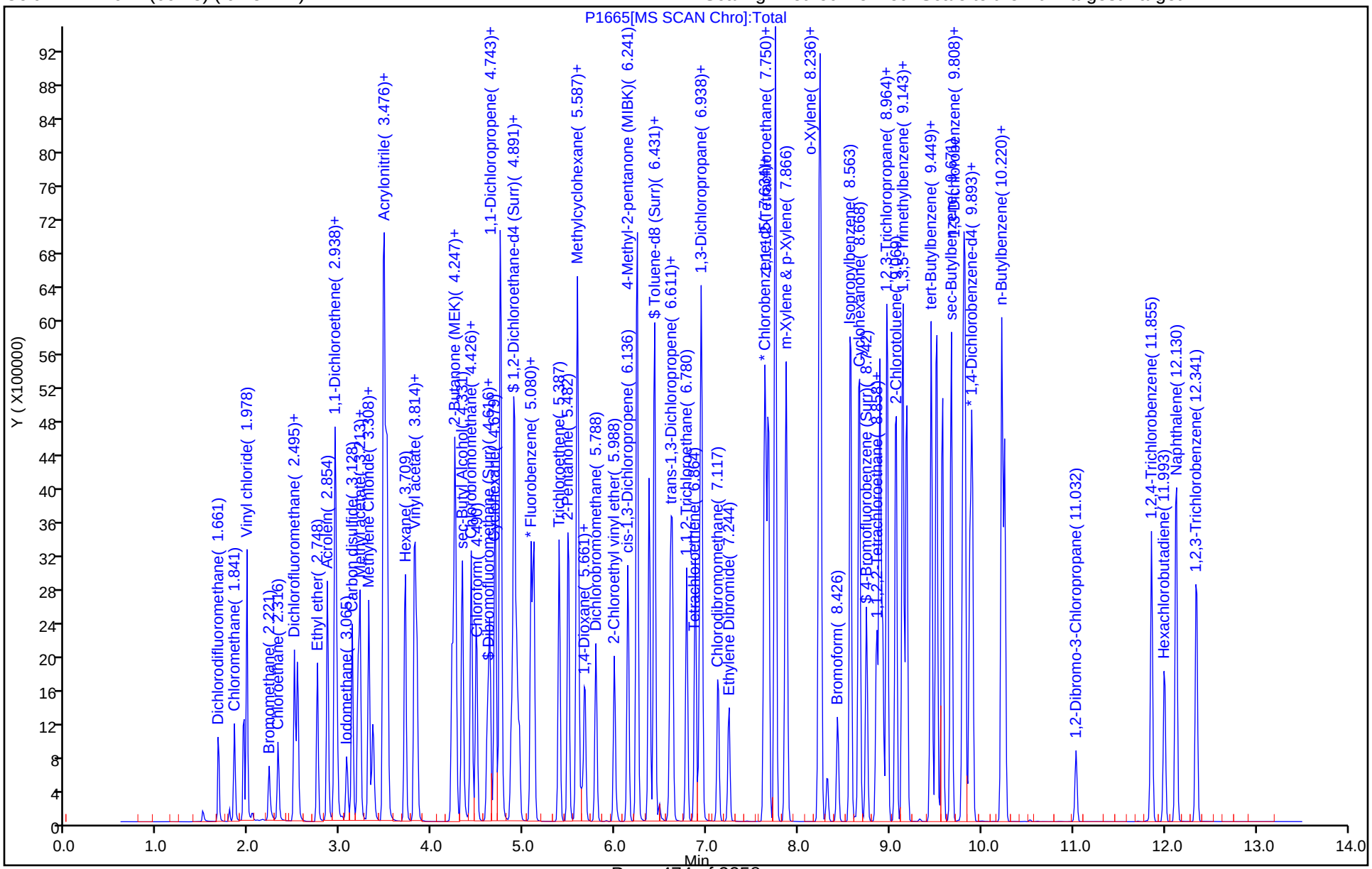
Lims ID: STD100 Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

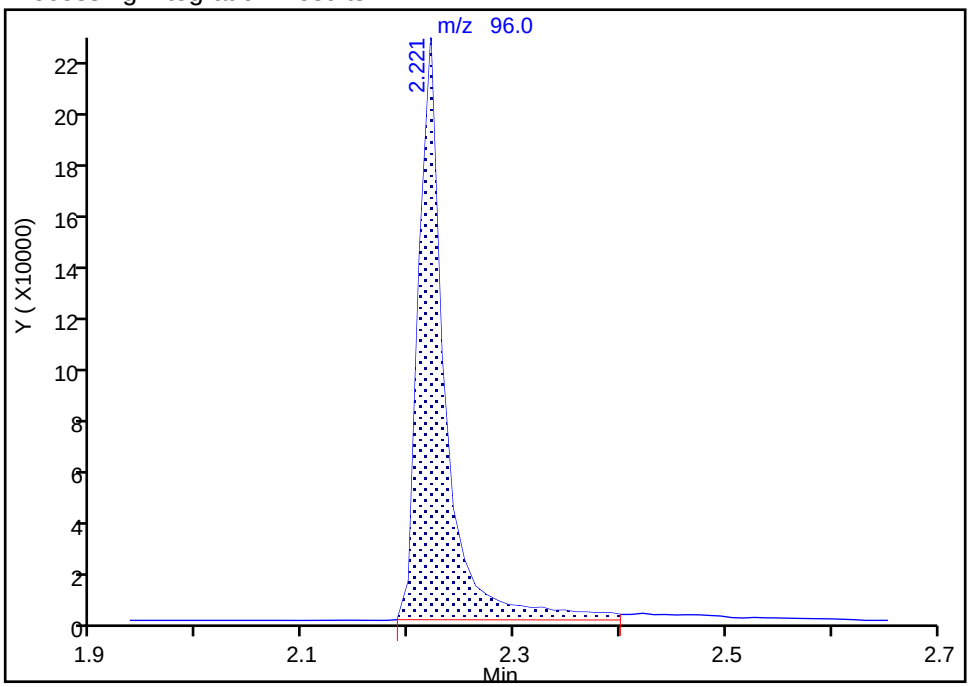
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1665.D
Injection Date: 01-Jun-2020 18:55:30 Instrument ID: VMS_P
Lims ID: STD100
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 8 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 2

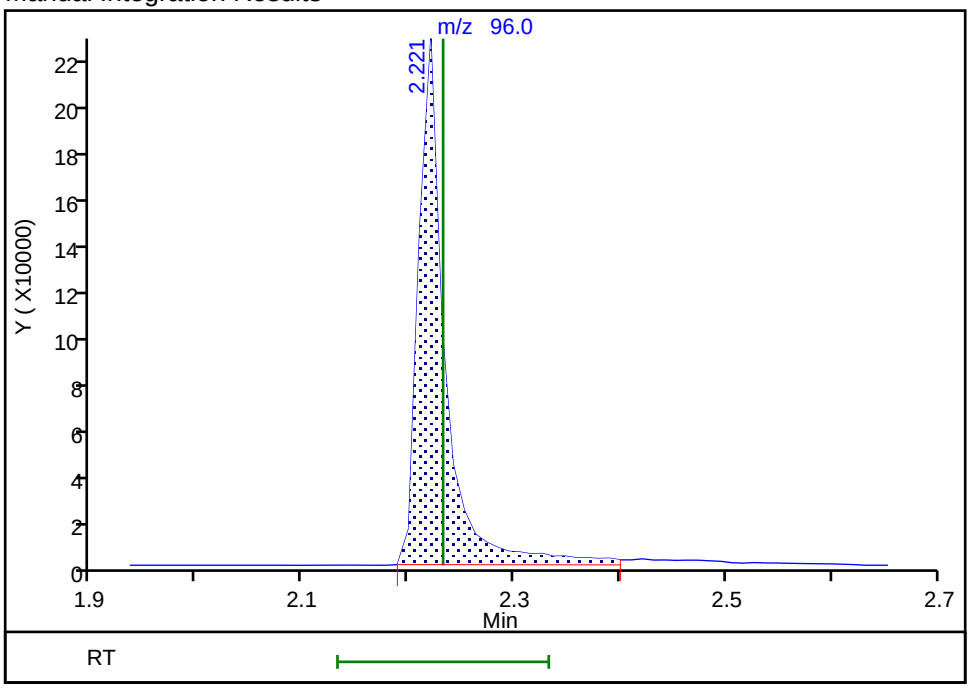
Processing Integration Results

RT: 2.22
Area: 398358
Amount: 71.854497
Amount Units: ug/l



Manual Integration Results

RT: 2.22
Area: 398358
Amount: 103.4548
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:04:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

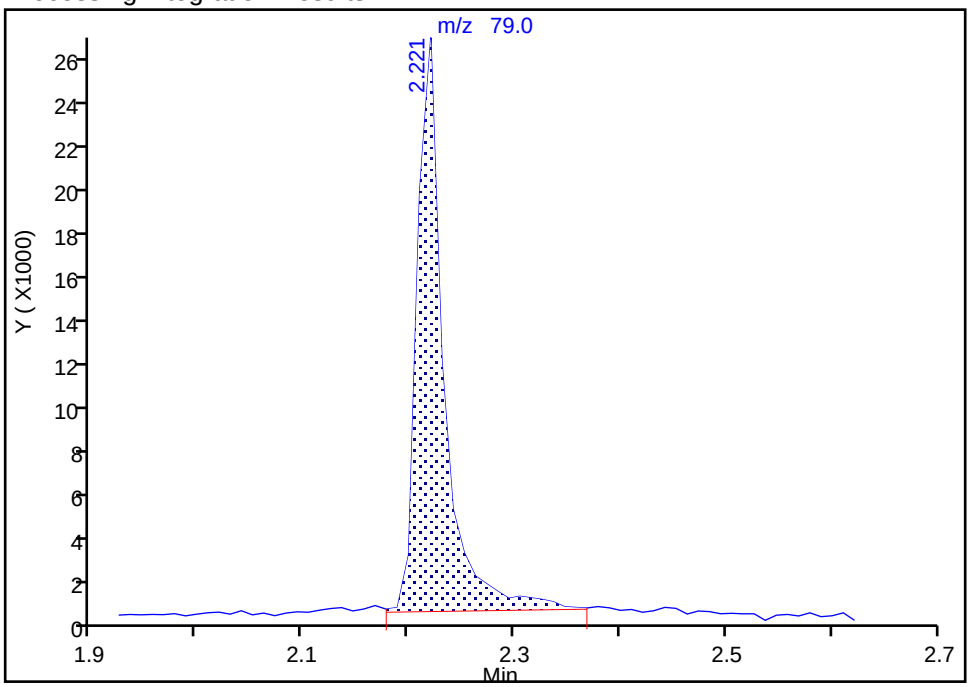
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1665.D
Injection Date: 01-Jun-2020 18:55:30 Instrument ID: VMS_P
Lims ID: STD100
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 8 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 3

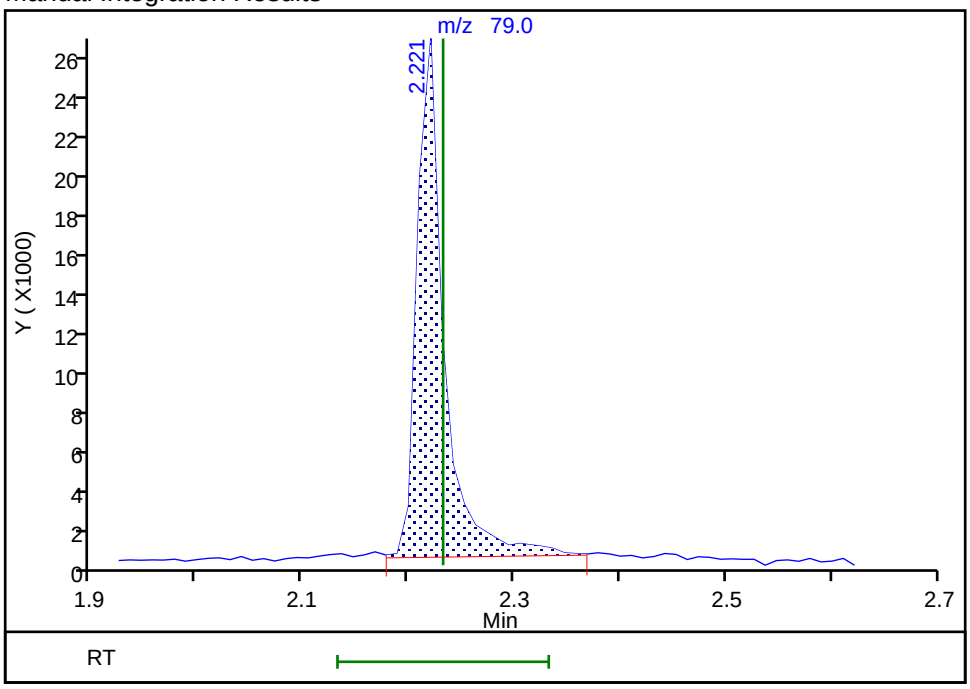
Processing Integration Results

RT: 2.22
Area: 45689
Amount: 71.854497
Amount Units: ug/l



Manual Integration Results

RT: 2.22
Area: 45689
Amount: 103.4548
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:04:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1666.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 01-Jun-2020 19:16:30 ALS Bottle#: 9 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Operator ID: SEIFERTJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jun-2020 11:17:08 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1054

First Level Reviewer: ornelasg Date: 01-Jun-2020 20:22:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.110	5.113	-0.003	98	2665192	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.643	7.646	-0.003	88	612530	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.869	9.873	-0.004	97	867641	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.603	4.607	-0.004	92	643049	50.0	50.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.867	4.871	-0.004	95	737268	50.0	48.8	
$ 6 Toluene-d8 (Surr)	98	6.366	6.369	-0.003	93	2645158	50.0	49.1	
$ 7 4-Bromofluorobenzene (Surr)	95	8.740	8.743	-0.003	85	944124	50.0	49.3	
10 Dichlorodifluoromethane	85	1.670	1.662	0.008	99	1521181	200.0	203.5	
11 Chloromethane	50	1.839	1.842	-0.003	99	1944451	200.0	192.5	
12 Vinyl chloride	62	1.944	1.937	0.007	98	2156770	200.0	184.8	
14 Bromomethane	94	2.208	2.232	-0.024	90	829108	200.0	190.8	
15 Chloroethane	64	2.314	2.327	-0.013	99	1338855	200.0	180.2	
16 Dichlorofluoromethane	67	2.493	2.496	-0.003	97	3337067	200.0	192.3	
17 Trichlorofluoromethane	101	2.525	2.538	-0.013	98	2746174	200.0	190.7	
19 Ethyl ether	59	2.746	2.749	-0.003	91	1748580	200.0	192.7	
21 Acrolein	56	2.852	2.855	-0.003	100	4216625	1975.0	1880.7	
22 1,1-Dichloroethene	96	2.936	2.939	-0.003	98	1646977	200.0	190.8	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.936	2.939	-0.003	72	1210821	200.0	186.5	
24 Acetone	43	2.957	2.960	-0.003	100	2724330	800.0	774.7	
26 Iodomethane	142	3.063	3.066	-0.003	99	1638641	200.0	195.4	
27 Carbon disulfide	76	3.126	3.129	-0.003	99	5354499	200.0	200.6	
29 Methyl acetate	43	3.189	3.193	-0.004	97	3572489	400.0	394.4	
30 3-Chloro-1-propene	41	3.210	3.214	-0.004	94	2597002	200.0	175.5	
31 Methylene Chloride	84	3.305	3.309	-0.004	91	1965595	200.0	198.6	
32 2-Methyl-2-propanol	59	3.358	3.351	0.007	98	2468347	2000.0	2112.9	
33 Acrylonitrile	53	3.474	3.467	0.007	98	9225550	2000.0	1880.7	
34 Methyl tert-butyl ether	73	3.495	3.499	-0.004	95	5795702	200.0	198.9	
35 trans-1,2-Dichloroethene	96	3.506	3.509	-0.003	98	1894659	200.0	186.0	
36 Hexane	57	3.706	3.710	-0.004	90	2650185	200.0	185.5	
38 Vinyl acetate	43	3.812	3.805	0.007	97	8022993	400.0	365.4	
39 1,1-Dichloroethane	63	3.833	3.836	-0.003	96	3524595	200.0	189.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	4.213	4.216	-0.003	99	4551845	800.0	766.2	
47 cis-1,2-Dichloroethene	96	4.245	4.248	-0.003	82	2140264	200.0	188.9	
48 2,2-Dichloropropane	77	4.255	4.258	-0.003	89	2543532	200.0	201.6	
50 sec-Butyl Alcohol	45	4.329	4.322	0.007	99	6200156	6000.0	6489.7	
53 Chlorobromomethane	128	4.424	4.427	-0.003	98	916158	200.0	180.5	
52 Tetrahydrofuran	42	4.435	4.427	0.008	87	1562767	400.0	396.8	
54 Chloroform	83	4.487	4.480	0.007	93	3319211	200.0	185.5	
55 1,1,1-Trichloroethane	97	4.625	4.628	-0.003	99	2730851	200.0	192.7	
56 Cyclohexane	56	4.688	4.691	-0.003	89	3432828	200.0	190.2	
57 1,1-Dichloropropene	75	4.741	4.744	-0.003	97	2820470	200.0	190.0	
59 Carbon tetrachloride	117	4.751	4.754	-0.003	95	2331188	200.0	201.0	
58 Isobutyl alcohol	41	4.751	4.754	-0.003	95	2158330	5000.0	5235.6	
60 Benzene	78	4.899	4.902	-0.003	96	8100543	200.0	184.7	
61 1,2-Dichloroethane	62	4.920	4.923	-0.003	97	2621872	200.0	191.7	
66 n-Heptane	43	5.078	5.082	-0.004	92	2427879	200.0	185.4	
67 Trichloroethene	95	5.384	5.388	-0.004	98	2041486	200.0	189.6	
68 2-Pentanone	43	5.490	5.483	0.007	98	7086221	800.0	802.8	
69 Methylcyclohexane	55	5.585	5.578	0.007	92	2586376	200.0	189.1	
70 1,2-Dichloropropane	63	5.595	5.599	-0.004	97	2237217	200.0	197.4	
72 1,4-Dioxane	88	5.638	5.630	0.008	93	629142	4000.0	3989.3	
73 Dibromomethane	93	5.669	5.662	0.007	94	1265341	200.0	194.7	
74 Dichlorobromomethane	83	5.785	5.789	-0.004	100	2599633	200.0	197.7	
76 2-Chloroethyl vinyl ether	63	5.986	5.989	-0.003	91	1631027	200.0	208.0	
77 cis-1,3-Dichloropropene	75	6.134	6.137	-0.003	97	3390099	200.0	206.4	
78 4-Methyl-2-pentanone (MIBK)	43	6.239	6.242	-0.003	94	8889699	800.0	784.3	
79 Toluene	91	6.429	6.432	-0.003	99	8379887	200.0	182.1	
80 trans-1,3-Dichloropropene	75	6.609	6.601	0.007	97	3090342	200.0	214.6	
81 Ethyl methacrylate	69	6.619	6.622	-0.003	88	3141319	200.0	208.6	
82 1,1,2-Trichloroethane	97	6.777	6.781	-0.004	90	1826181	200.0	196.8	
83 Tetrachloroethene	164	6.872	6.876	-0.004	93	1409071	200.0	188.7	
84 1,3-Dichloropropane	76	6.925	6.928	-0.003	98	3359188	200.0	187.3	
85 2-Hexanone	43	6.946	6.939	0.007	94	6416464	800.0	779.1	
86 Chlorodibromomethane	129	7.126	7.118	0.008	90	1909184	200.0	207.1	
88 Ethylene Dibromide	107	7.242	7.245	-0.003	98	1921283	200.0	192.8	
89 1-Chlorohexane	91	7.632	7.635	-0.003	98	2625923	200.0	195.7	
90 Chlorobenzene	112	7.674	7.678	-0.004	93	5290337	200.0	182.6	
92 Ethylbenzene	106	7.748	7.751	-0.003	98	3000265	200.0	188.6	
91 1,1,1,2-Tetrachloroethane	131	7.748	7.751	-0.003	96	1814145	200.0	203.3	
93 m-Xylene & p-Xylene	106	7.864	7.868	-0.004	99	3621670	200.0	189.3	
94 o-Xylene	106	8.234	8.226	0.008	96	3512399	200.0	191.1	
95 Styrene	104	8.244	8.247	-0.003	94	5944526	200.0	192.0	
96 Bromoform	173	8.434	8.427	0.007	95	1219200	200.0	223.7	
97 Isopropylbenzene	105	8.571	8.575	-0.004	96	8473631	200.0	186.6	
99 Cyclohexanone	55	8.666	8.670	-0.004	90	5123084	8000.0	8168.1	
100 1,1,2,2-Tetrachloroethane	83	8.856	8.859	-0.003	94	2502476	200.0	188.0	
101 Bromobenzene	156	8.888	8.891	-0.003	96	2037374	200.0	190.2	
102 trans-1,4-Dichloro-2-butene	53	8.888	8.891	-0.003	79	740899	200.0	209.6	
103 1,2,3-Trichloropropane	110	8.920	8.923	-0.003	82	742902	200.0	184.0	
104 N-Propylbenzene	120	8.972	8.965	0.007	98	2424282	200.0	192.6	
105 2-Chlorotoluene	126	9.067	9.071	-0.004	98	2052197	200.0	192.6	
106 1,3,5-Trimethylbenzene	105	9.141	9.144	-0.003	95	6973832	200.0	187.1	
107 4-Chlorotoluene	126	9.183	9.187	-0.004	97	2129083	200.0	190.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 tert-Butylbenzene	119	9.447	9.450	-0.003	93	5880094	200.0	188.5	
109 1,2,4-Trimethylbenzene	105	9.511	9.514	-0.003	97	7027541	200.0	186.5	
110 sec-Butylbenzene	134	9.669	9.672	-0.003	95	1767152	200.0	193.7	
111 1,3-Dichlorobenzene	146	9.795	9.799	-0.004	98	3739315	200.0	192.8	
112 4-Isopropyltoluene	119	9.817	9.820	-0.003	96	7213150	200.0	189.2	
113 1,4-Dichlorobenzene	146	9.901	9.904	-0.003	94	3782164	200.0	188.3	
115 n-Butylbenzene	91	10.218	10.221	-0.003	97	6618361	200.0	186.1	
116 1,2-Dichlorobenzene	146	10.249	10.252	-0.003	95	3619991	200.0	187.9	
117 1,2-Dibromo-3-Chloropropane	157	11.030	11.033	-0.003	84	512443	200.0	226.9	
119 1,2,4-Trichlorobenzene	180	11.853	11.856	-0.003	94	2180721	200.0	208.1	
120 Hexachlorobutadiene	225	12.001	12.004	-0.003	98	781505	200.0	205.0	
121 Naphthalene	128	12.128	12.131	-0.003	98	6963268	200.0	205.6	
122 1,2,3-Trichlorobenzene	180	12.349	12.352	-0.003	95	1991580	200.0	206.7	
S 139 1,2-Dichloroethene, Total (URS)	96				0		400.0	374.9	
S 142 Xylenes, Total	106				0		400.0	380.3	
S 140 Trihalomethanes, Total	1				0		800.0	813.9	
S 143 Xylenes, Total (URS)	1				0		400.0	380.3	
S 146 Total BTEX	1				0			935.8	
S 145 1,3-Dichloropropene, Total	1				0		400.0	421.0	
S 144 1,2-Dichloroethene, Total	1				0		400.0	374.9	

Reagents:

MV-Gas A_00058	Amount Added: 40.00	Units: uL	
MV-MegaMainA_00034	Amount Added: 100.00	Units: uL	
mv-IS_SS_00001	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 02-Jun-2020 11:17:09 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1666.D

Injection Date: 01-Jun-2020 19:16:30 Instrument ID: VMS_P Operator ID: SEIFERTJ

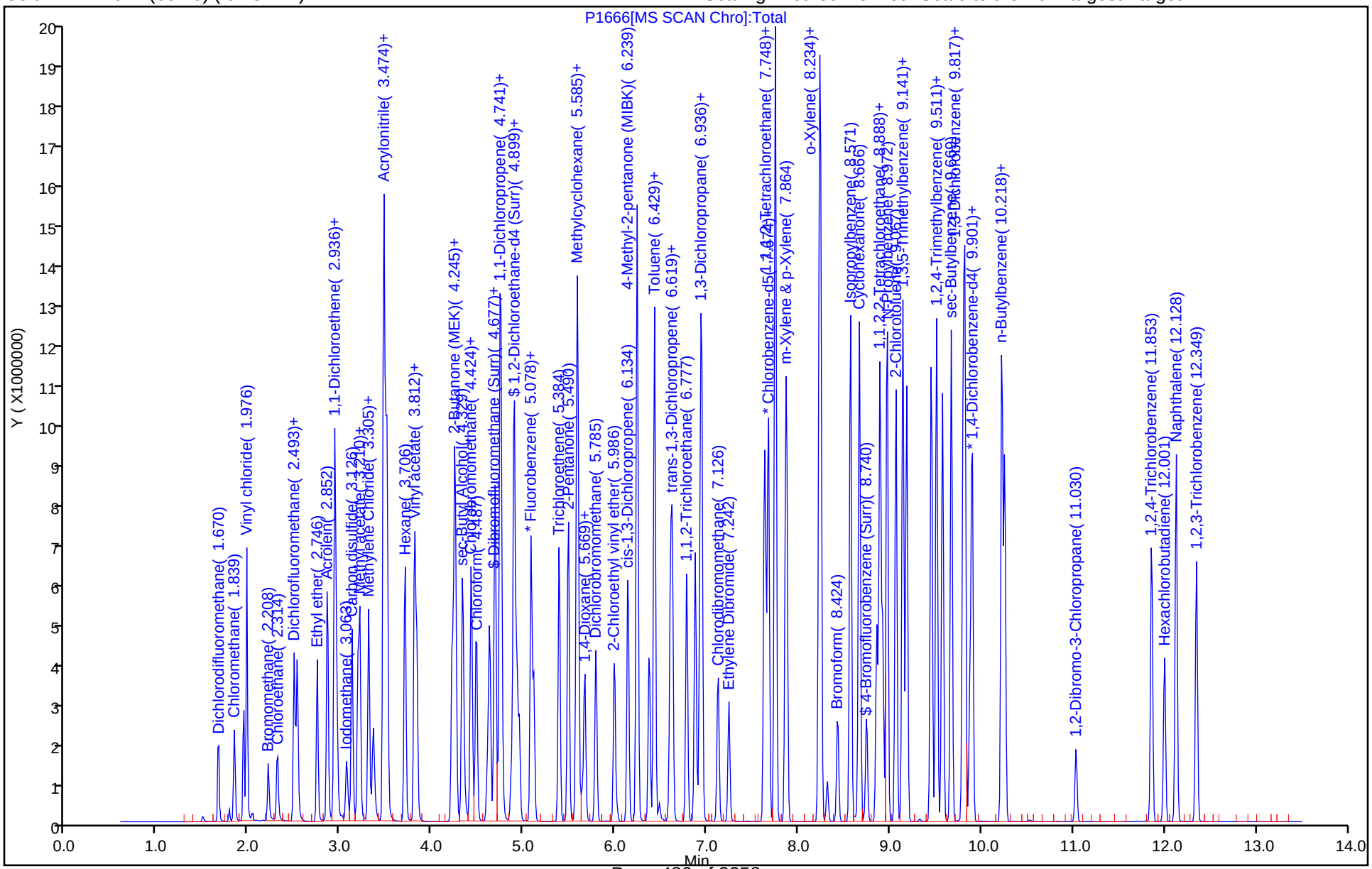
Lims ID: STD200 Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 9

Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver

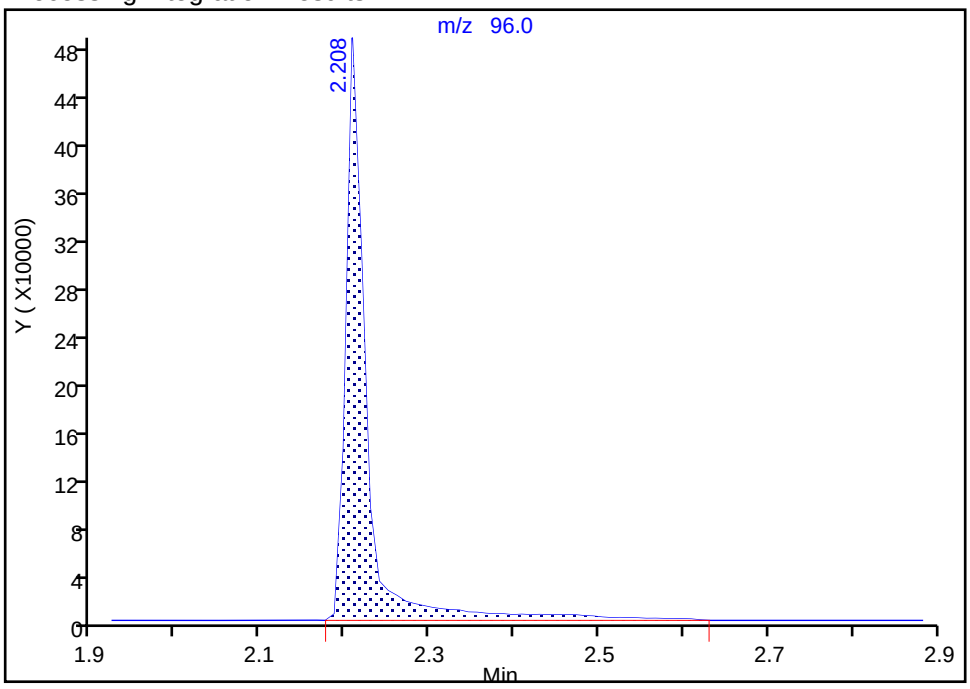
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1666.D
Injection Date: 01-Jun-2020 19:16:30 Instrument ID: VMS_P
Lims ID: STD200
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 9 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 2

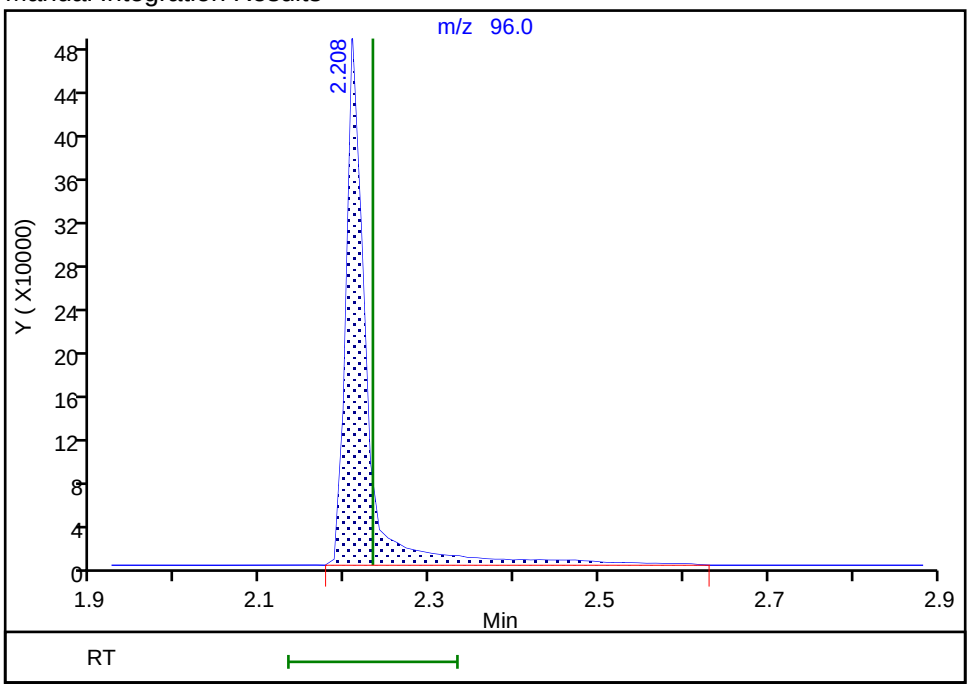
Processing Integration Results

RT: 2.21
Area: 807928
Amount: 190.7761
Amount Units: ug/l



Manual Integration Results

RT: 2.21
Area: 807928
Amount: 190.7761
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:04:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

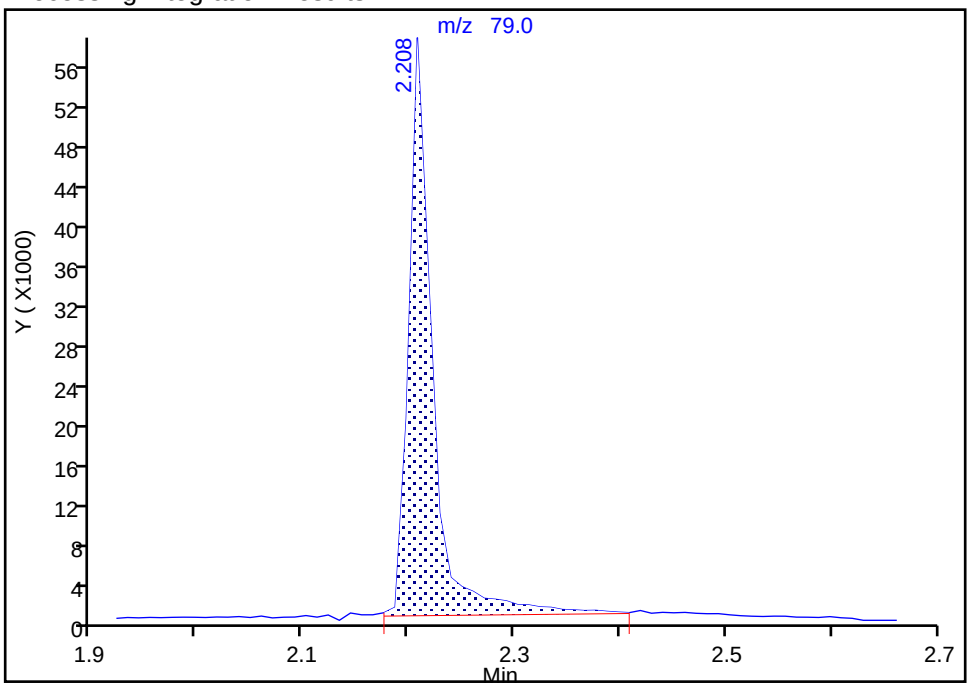
Data File:	\\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1666.D				
Injection Date:	01-Jun-2020 19:16:30	Instrument ID:	VMS_P		
Lims ID:	STD200				
Client ID:					
Operator ID:	SEIFERTJ	ALS Bottle#:	9	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		
Column:	DB-624 (60.25) (0.25 mm)	Detector	MS SCAN		

14 Bromomethane, CAS: 74-83-9

Signal: 3

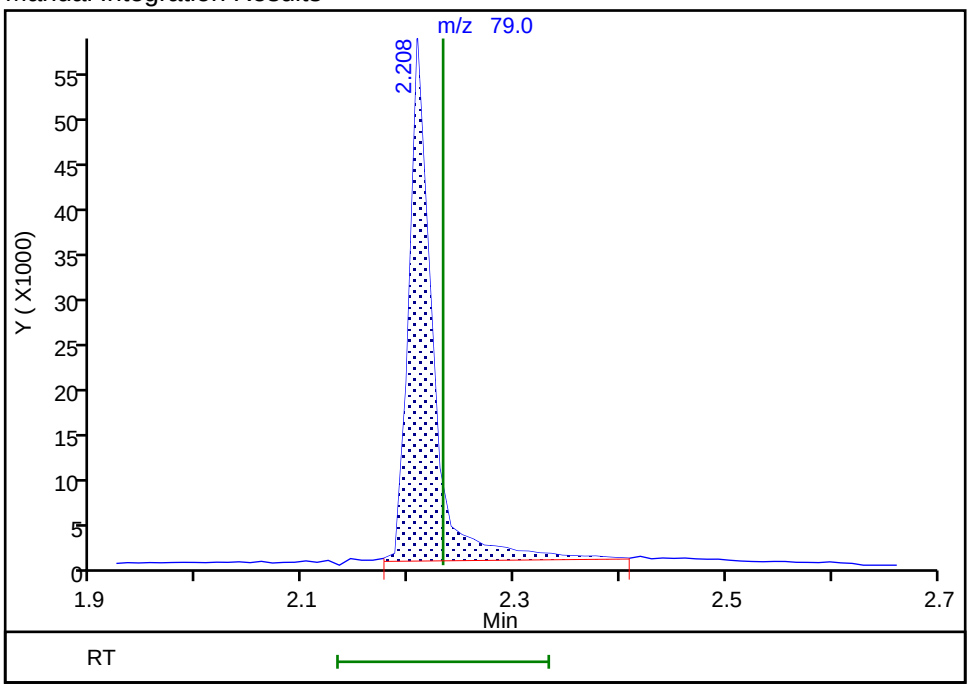
Processing Integration Results

RT: 2.21
Area: 90258
Amount: 190.7761
Amount Units: ug/l



Manual Integration Results

RT: 2.21
Area: 90258
Amount: 190.7761
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 21:04:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: ICV 280-496958/21 Calibration Date: 06/01/2020 20:54

Instrument ID: VMS_P Calib Start Date: 06/01/2020 16:26

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/01/2020 20:33

Lab File ID: P1670.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.1402	0.1453		51.8	50.0	3.6	20.0
Chloromethane	Lin2		0.1887	0.1000	49.6	50.0	-0.9	20.0
Vinyl chloride	Ave	0.2189	0.2085		47.6	50.0	-4.8	20.0
Bromomethane	Lin1		0.0986		59.3	50.0	18.6	20.0
Chloroethane	Ave	0.1394	0.1352		48.5	50.0	-3.0	20.0
Dichlorofluoromethane	Ave	0.3255	0.3170		48.7	50.0	-2.6	20.0
Trichlorofluoromethane	Ave	0.2702	0.2606		48.2	50.0	-3.5	20.0
Ethyl ether	Ave	0.1703	0.1694		49.7	50.0	-0.5	20.0
Acrolein	Ave	0.0421	0.0417		489	494	-0.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1218	0.1268		52.1	50.0	4.1	20.0
1,1-Dichloroethene	Ave	0.1619	0.1671		51.6	50.0	3.2	20.0
Acetone	Lin2		0.0650		196	200	-1.9	20.0
Iodomethane	Lin		0.1623		52.1	50.0	4.2	20.0
Carbon disulfide	Lin2		0.5468		54.4	50.0	8.8	20.0
Methyl acetate	Ave	0.1699	0.1636		96.3	100	-3.7	20.0
3-Chloro-1-propene	Ave	0.2776	0.2915		52.5	50.0	5.0	20.0
Methylene Chloride	Lin2		0.1954		52.2	50.0	4.5	20.0
t-Butyl alcohol	Ave	0.0219	0.0225		513	500	2.5	20.0
Acrylonitrile	Ave	0.0920	0.0897		487	500	-2.5	20.0
Methyl tert-butyl ether	Ave	0.5467	0.5582		51.1	50.0	2.1	20.0
trans-1,2-Dichloroethene	Ave	0.1911	0.1874		49.0	50.0	-1.9	20.0
Hexane	Ave	1.166	1.244		53.3	50.0	6.7	20.0
Vinyl acetate	Ave	0.4119	0.4582		111	100	11.2	20.0
1,1-Dichloroethane	Ave	0.3497	0.3524	0.1000	50.4	50.0	0.8	20.0
2-Butanone (MEK)	Ave	0.1115	0.1083		194	200	-2.8	20.0
cis-1,2-Dichloroethene	Ave	0.2126	0.2101		49.4	50.0	-1.2	20.0
2,2-Dichloropropane	Ave	0.2367	0.2614		55.2	50.0	10.4	20.0
sec-Butyl Alcohol	Ave	0.0179	0.0189		1580	1500	5.5	20.0
Bromochloromethane	Ave	0.0952	0.0954		50.1	50.0	0.2	20.0
Tetrahydrofuran	Ave	0.0739	0.0713		96.4	100	-3.6	20.0
Chloroform	Ave	0.3358	0.3273		48.7	50.0	-2.5	20.0
1,1,1-Trichloroethane	Ave	0.2658	0.2723		51.2	50.0	2.4	20.0
Cyclohexane	Ave	0.3386	0.3585		52.9	50.0	5.9	20.0
1,1-Dichloropropene	Ave	0.2785	0.2843		51.0	50.0	2.1	20.0
Carbon tetrachloride	Ave	0.2176	0.2292		52.7	50.0	5.3	20.0
Isobutyl alcohol	Ave	0.0077	0.0079		1270	1250	1.9	20.0
Benzene	Ave	0.8229	0.8202		49.8	50.0	-0.3	20.0
1,2-Dichloroethane	Lin2		0.2558		49.6	50.0	-0.8	20.0
Trichloroethene	Ave	0.2020	0.2010		49.8	50.0	-0.5	20.0
2-Pentanone	Ave	0.1656	0.1691		204	200	2.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: ICV 280-496958/21 Calibration Date: 06/01/2020 20:54

Instrument ID: VMS_P Calib Start Date: 06/01/2020 16:26

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/01/2020 20:33

Lab File ID: P1670.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.2566	0.2686		52.4	50.0	4.7	20.0
1,2-Dichloropropane	Ave	0.2126	0.2140		50.3	50.0	0.6	20.0
1,4-Dioxane	Ave	0.0030	0.0030		1010	1000	0.6	20.0
Dibromomethane	Ave	0.1219	0.1204		49.4	50.0	-1.3	20.0
Bromodichloromethane	Ave	0.2467	0.2486		50.4	50.0	0.8	20.0
2-Chloroethyl vinyl ether	Ave	0.1471	0.1503		51.1	50.0	2.2	20.0
cis-1,3-Dichloropropene	Ave	1.341	1.414		52.7	50.0	5.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2126	0.2193		206	200	3.1	20.0
Toluene	Ave	0.8631	0.8530		49.4	50.0	-1.2	20.0
trans-1,3-Dichloropropene	Ave	0.2701	0.2886		53.4	50.0	6.8	20.0
Ethyl methacrylate	Ave	1.229	1.295		52.7	50.0	5.4	20.0
1,1,2-Trichloroethane	Ave	0.1741	0.1763		50.6	50.0	1.3	20.0
Tetrachloroethene	Ave	0.6096	0.6135		50.3	50.0	0.7	20.0
1,3-Dichloropropane	Ave	1.464	1.424		48.6	50.0	-2.7	20.0
2-Hexanone	Ave	0.6723	0.6895		205	200	2.6	20.0
Dibromochloromethane	Ave	0.7527	0.7872		52.3	50.0	4.6	20.0
Ethylene Dibromide	Ave	0.8135	0.8100		49.8	50.0	-0.4	20.0
1-Chlorohexane	Lin2		1.161		52.7	50.0	5.4	20.0
Chlorobenzene	Ave	2.365	2.298	0.3000	48.6	50.0	-2.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.7285	0.7514		51.6	50.0	3.1	20.0
Ethylbenzene	Ave	1.298	1.290		49.7	50.0	-0.7	20.0
m-Xylene & p-Xylene	Ave	1.562	1.584		50.7	50.0	1.4	20.0
o-Xylene	Ave	1.501	1.513		50.4	50.0	0.8	20.0
Styrene	Ave	2.528	2.615		51.7	50.0	3.4	20.0
Bromoform	Ave	0.4449	0.4897	0.1000	55.0	50.0	10.1	20.0
Isopropylbenzene	Ave	2.617	2.692		51.4	50.0	2.9	20.0
Cyclohexanone	Ave	0.0512	0.0546		2130	2000	6.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7670	0.7505	0.3000	48.9	50.0	-2.2	20.0
Bromobenzene	Ave	0.6174	0.6124		49.6	50.0	-0.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2037	0.2119		52.0	50.0	4.0	20.0
1,2,3-Trichloropropane	Ave	0.2327	0.2186		47.0	50.0	-6.0	20.0
N-Propylbenzene	Ave	0.7252	0.7431		51.2	50.0	2.5	20.0
2-Chlorotoluene	Ave	0.6140	0.6168		50.2	50.0	0.5	20.0
1,3,5-Trimethylbenzene	Ave	2.148	2.205		51.3	50.0	2.7	20.0
4-Chlorotoluene	Ave	0.6432	0.6402		49.8	50.0	-0.5	20.0
tert-Butylbenzene	Ave	1.797	1.838		51.1	50.0	2.3	20.0
1,2,4-Trimethylbenzene	Ave	2.171	2.206		50.8	50.0	1.6	20.0
sec-Butylbenzene	Ave	0.5256	0.5368		51.1	50.0	2.1	20.0
1,3-Dichlorobenzene	Ave	1.118	1.136		50.8	50.0	1.7	20.0
4-Isopropyltoluene	Ave	2.197	2.296		52.2	50.0	4.5	20.0
1,4-Dichlorobenzene	Ave	1.157	1.154		49.8	50.0	-0.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: ICV 280-496958/21 Calibration Date: 06/01/2020 20:54

Instrument ID: VMS_P Calib Start Date: 06/01/2020 16:26

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/01/2020 20:33

Lab File ID: P1670.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
n-Butylbenzene	Ave	2.049	2.105		51.4	50.0	2.7	20.0
1,2-Dichlorobenzene	Ave	1.110	1.097		49.4	50.0	-1.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1302	0.1356		52.1	50.0	4.1	20.0
1,2,4-Trichlorobenzene	Ave	0.6038	0.6273		51.9	50.0	3.9	20.0
Hexachlorobutadiene	Ave	0.2197	0.2319		52.8	50.0	5.5	20.0
Naphthalene	Ave	1.952	2.027		51.9	50.0	3.8	20.0
1,2,3-Trichlorobenzene	Ave	0.5553	0.5696		51.3	50.0	2.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2408	0.2402		49.9	50.0	-0.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2833	0.2725		48.1	50.0	-3.8	20.0
Toluene-d8 (Surr)	Ave	4.400	4.350		49.4	50.0	-1.1	20.0
4-Bromofluorobenzene (Surr)	Ave	1.104	1.092		49.5	50.0	-1.0	20.0

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1670.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 01-Jun-2020 20:54:30 ALS Bottle#: 13 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Operator ID: SEIFERTJ Instrument ID: VMS_P
Sublist:

Method: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Jun-2020 11:17:08 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1009

First Level Reviewer: seifertj Date: 02-Jun-2020 08:01:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.114	5.113	0.001	99	2590465	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.646	7.646	0.000	86	590999	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.873	9.873	0.000	96	849842	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.607	4.607	0.000	93	622271	50.0	49.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.860	4.871	-0.011	97	705775	50.0	48.1	
$ 6 Toluene-d8 (Surr)	98	6.369	6.369	0.000	93	2570994	50.0	49.4	
$ 7 4-Bromofluorobenzene (Surr)	95	8.744	8.743	0.001	84	928285	50.0	49.5	
10 Dichlorodifluoromethane	85	1.663	1.662	0.001	99	376358	50.0	51.8	
11 Chloromethane	50	1.842	1.842	0.000	99	488912	50.0	49.6	
12 Vinyl chloride	62	1.937	1.937	0.000	98	539997	50.0	47.6	
14 Bromomethane	94	2.233	2.232	0.001	90	255462	50.0	59.3	
15 Chloroethane	64	2.328	2.327	0.001	100	350208	50.0	48.5	
16 Dichlorofluoromethane	67	2.496	2.496	0.000	97	821160	50.0	48.7	
17 Trichlorofluoromethane	101	2.539	2.538	0.001	98	675149	50.0	48.2	
19 Ethyl ether	59	2.750	2.749	0.001	91	438827	50.0	49.7	
21 Acrolein	56	2.855	2.855	0.000	100	1065819	493.8	489.1	
22 1,1-Dichloroethene	96	2.940	2.939	0.001	98	432725	50.0	51.6	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.940	2.939	0.001	73	328549	50.0	52.1	
24 Acetone	43	2.961	2.960	0.001	100	673920	200.0	196.2	
26 Iodomethane	142	3.066	3.066	0.000	98	420437	50.0	52.1	
27 Carbon disulfide	76	3.130	3.129	0.001	99	1416370	50.0	54.4	
29 Methyl acetate	43	3.193	3.193	0.000	97	847714	100.0	96.3	
30 3-Chloro-1-propene	41	3.214	3.214	0.000	93	755062	50.0	52.5	
31 Methylene Chloride	84	3.309	3.309	0.000	92	506201	50.0	52.2	
32 2-Methyl-2-propanol	59	3.351	3.351	0.000	98	582058	500.0	512.6	
33 Acrylonitrile	53	3.467	3.467	0.000	98	2323499	500.0	487.3	
34 Methyl tert-butyl ether	73	3.499	3.499	0.000	95	1445927	50.0	51.1	
35 trans-1,2-Dichloroethene	96	3.510	3.509	0.001	98	485470	50.0	49.0	
36 Hexane	57	3.710	3.710	0.000	90	735288	50.0	53.3	
38 Vinyl acetate	43	3.805	3.805	0.000	97	2373910	100.0	111.2	
39 1,1-Dichloroethane	63	3.837	3.836	0.001	96	912856	50.0	50.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	4.217	4.216	0.001	99	1122134	200.0	194.3	
47 cis-1,2-Dichloroethene	96	4.248	4.248	0.000	82	544236	50.0	49.4	
48 2,2-Dichloropropane	77	4.259	4.258	0.001	88	677059	50.0	55.2	
50 sec-Butyl Alcohol	45	4.322	4.322	0.000	99	1469949	1500.0	1583.0	
53 Chlorobromomethane	128	4.428	4.427	0.001	98	247207	50.0	50.1	
52 Tetrahydrofuran	42	4.428	4.427	0.001	87	369171	100.0	96.4	
54 Chloroform	83	4.480	4.480	0.000	92	847798	50.0	48.7	
55 1,1,1-Trichloroethane	97	4.628	4.628	0.000	98	705497	50.0	51.2	
56 Cyclohexane	56	4.691	4.691	0.000	89	928773	50.0	52.9	
57 1,1-Dichloropropene	75	4.744	4.744	0.000	97	736563	50.0	51.0	
59 Carbon tetrachloride	117	4.744	4.754	-0.010	83	593714	50.0	52.7	
58 Isobutyl alcohol	41	4.744	4.754	-0.010	94	510443	1250.0	1273.9	
60 Benzene	78	4.892	4.902	-0.010	96	2124641	50.0	49.8	
61 1,2-Dichloroethane	62	4.924	4.923	0.001	97	662615	50.0	49.6	
66 n-Heptane	43	5.082	5.082	0.000	92	669267	50.0	52.6	
67 Trichloroethene	95	5.388	5.388	0.000	99	520749	50.0	49.8	
68 2-Pentanone	43	5.483	5.483	0.000	99	1751955	200.0	204.2	
69 Methylcyclohexane	55	5.578	5.578	0.000	93	695871	50.0	52.4	
70 1,2-Dichloropropane	63	5.588	5.599	-0.011	97	554297	50.0	50.3	
72 1,4-Dioxane	88	5.631	5.630	0.001	93	154164	1000.0	1005.7	
73 Dibromomethane	93	5.662	5.662	0.000	95	311781	50.0	49.4	
74 Dichlorobromomethane	83	5.789	5.789	0.000	99	643971	50.0	50.4	
76 2-Chloroethyl vinyl ether	63	5.989	5.989	0.000	91	389335	50.0	51.1	
77 cis-1,3-Dichloropropene	75	6.137	6.137	0.000	96	835385	50.0	52.7	
78 4-Methyl-2-pentanone (MIBK)	43	6.232	6.242	-0.010	96	2271889	200.0	206.2	
79 Toluene	91	6.433	6.432	0.001	98	2209611	50.0	49.4	
80 trans-1,3-Dichloropropene	75	6.602	6.601	0.001	97	747539	50.0	53.4	
81 Ethyl methacrylate	69	6.623	6.622	0.001	88	765502	50.0	52.7	
82 1,1,2-Trichloroethane	97	6.781	6.781	0.000	90	456702	50.0	50.6	
83 Tetrachloroethene	164	6.876	6.876	0.000	94	362600	50.0	50.3	
84 1,3-Dichloropropane	76	6.929	6.928	0.001	96	841677	50.0	48.6	
85 2-Hexanone	43	6.939	6.939	0.000	95	1630059	200.0	205.1	
86 Chlorodibromomethane	129	7.119	7.118	0.001	90	465207	50.0	52.3	
88 Ethylene Dibromide	107	7.245	7.245	0.000	98	478705	50.0	49.8	
89 1-Chlorohexane	91	7.625	7.635	-0.010	98	685928	50.0	52.7	
90 Chlorobenzene	112	7.678	7.678	0.000	94	1358393	50.0	48.6	
92 Ethylbenzene	106	7.752	7.751	0.001	98	762280	50.0	49.7	
91 1,1,1,2-Tetrachloroethane	131	7.741	7.751	-0.010	95	444052	50.0	51.6	
93 m-Xylene & p-Xylene	106	7.868	7.868	0.000	99	936078	50.0	50.7	
94 o-Xylene	106	8.227	8.226	0.001	97	893993	50.0	50.4	
95 Styrene	104	8.248	8.247	0.001	94	1545341	50.0	51.7	
96 Bromoform	173	8.427	8.427	0.000	95	289434	50.0	55.0	
97 Isopropylbenzene	105	8.564	8.575	-0.011	96	2287684	50.0	51.4	
99 Cyclohexanone	55	8.659	8.670	-0.011	91	1291007	2000.0	2133.3	
100 1,1,2,2-Tetrachloroethane	83	8.849	8.859	-0.010	93	637840	50.0	48.9	
101 Bromobenzene	156	8.891	8.891	0.000	96	520421	50.0	49.6	
102 trans-1,4-Dichloro-2-butene	53	8.891	8.891	0.000	65	180098	50.0	52.0	
103 1,2,3-Trichloropropane	110	8.923	8.923	0.000	85	185801	50.0	47.0	
104 N-Propylbenzene	120	8.965	8.965	0.000	99	631481	50.0	51.2	
105 2-Chlorotoluene	126	9.071	9.071	0.000	96	524183	50.0	50.2	
106 1,3,5-Trimethylbenzene	105	9.145	9.144	0.001	94	1874231	50.0	51.3	
107 4-Chlorotoluene	126	9.187	9.187	0.000	97	544107	50.0	49.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 tert-Butylbenzene	119	9.451	9.450	0.001	93	1561925	50.0	51.1	
109 1,2,4-Trimethylbenzene	105	9.504	9.514	-0.010	97	1874354	50.0	50.8	
110 sec-Butylbenzene	134	9.672	9.672	0.000	94	456208	50.0	51.1	
111 1,3-Dichlorobenzene	146	9.799	9.799	0.000	98	965515	50.0	50.8	
112 4-Isopropyltoluene	119	9.820	9.820	0.000	97	1950964	50.0	52.2	
113 1,4-Dichlorobenzene	146	9.894	9.904	-0.010	94	980422	50.0	49.8	
115 n-Butylbenzene	91	10.221	10.221	0.000	98	1788798	50.0	51.4	
116 1,2-Dichlorobenzene	146	10.253	10.252	0.001	98	932406	50.0	49.4	
117 1,2-Dibromo-3-Chloropropane	157	11.034	11.033	0.001	84	115195	50.0	52.1	
119 1,2,4-Trichlorobenzene	180	11.857	11.856	0.001	94	533137	50.0	51.9	
120 Hexachlorobutadiene	225	12.005	12.004	0.001	96	197049	50.0	52.8	
121 Naphthalene	128	12.121	12.131	-0.010	98	1722522	50.0	51.9	
122 1,2,3-Trichlorobenzene	180	12.353	12.352	0.001	95	484072	50.0	51.3	
S 139 1,2-Dichloroethene, Total (URS)	96				0		100.0	98.4	
S 142 Xylenes, Total	106				0		100.0	101.1	
S 140 Trihalomethanes, Total	1				0		200.0	206.4	
S 143 Xylenes, Total (URS)	1				0		100.0	101.1	
S 145 1,3-Dichloropropene, Total	1				0		100.0	106.1	
S 144 1,2-Dichloroethene, Total	1				0		100.0	98.4	

Reagents:

MV-MegaMain B_00031	Amount Added: 25.00	Units: uL	
MV-Gas B_00060	Amount Added: 10.00	Units: uL	
mv-IS_SS_00001	Amount Added: 5.00	Units: uL	Run Reagent

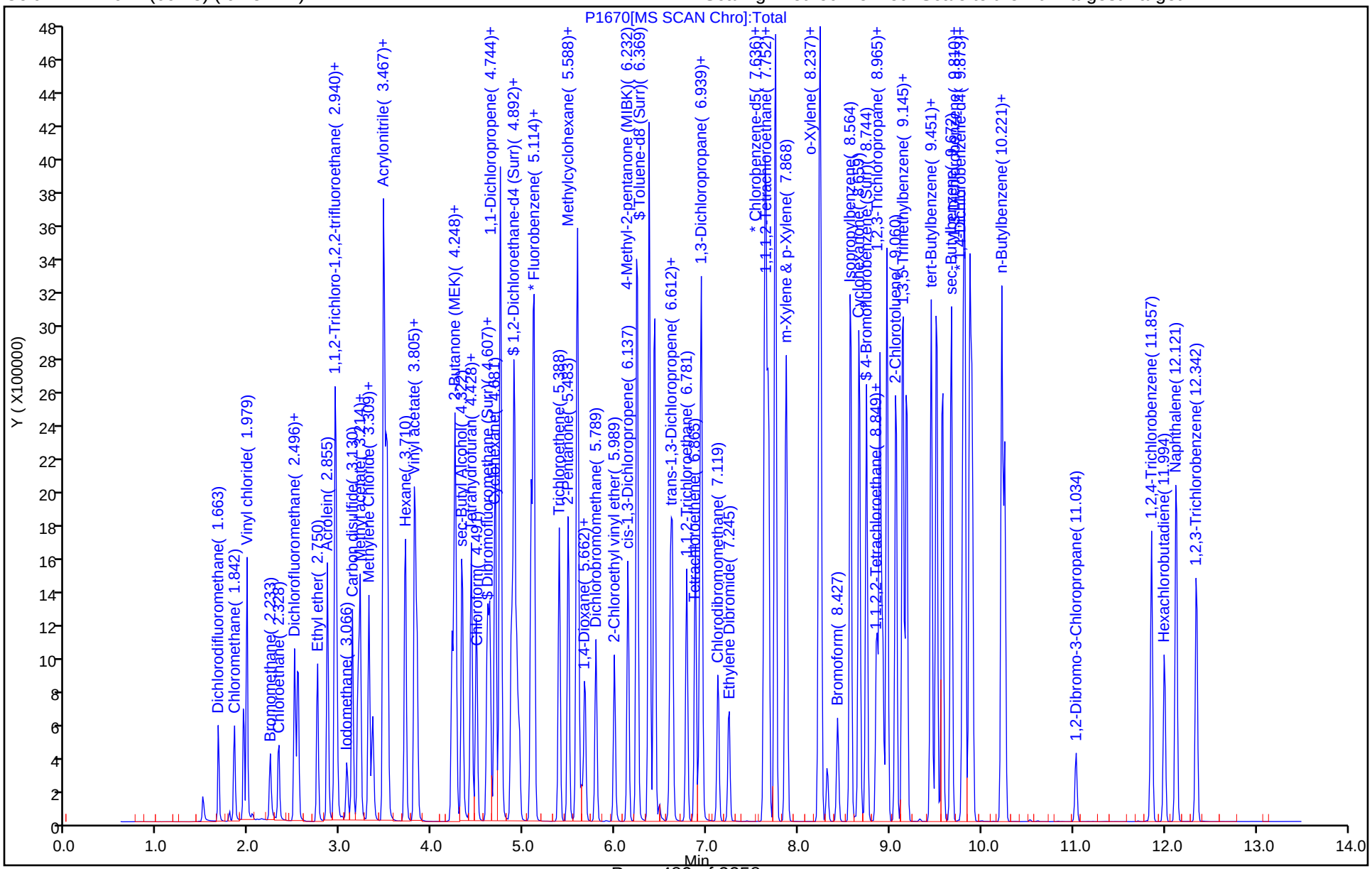
Report Date: 02-Jun-2020 12:20:29 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1670.D

Injection Date:	01-Jun-2020 20:54:30	Instrument ID:	VMS_P	Operator ID:	SEIFERTJ
Lims ID:	ICV			Worklist Smp#:	21
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499912/2 Calibration Date: 06/24/2020 08:35

Instrument ID: VMS_P Calib Start Date: 06/01/2020 16:26

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/01/2020 20:33

Lab File ID: P2664.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.1402	0.1379		49.2	50.0	-1.7	20.0
Chloromethane	Lin2		0.1988	0.1000	52.2	50.0	4.5	20.0
Vinyl chloride	Ave	0.2189	0.2438		55.7	50.0	11.4	20.0
Bromomethane	Lin1		0.0676		40.1	50.0	-19.8	20.0
Chloroethane	Ave	0.1394	0.1584		56.8	50.0	13.6	20.0
Dichlorofluoromethane	Ave	0.3255	0.3701		56.9	50.0	13.7	20.0
Trichlorofluoromethane	Ave	0.2702	0.2922		54.1	50.0	8.1	20.0
Ethyl ether	Ave	0.1703	0.1805		53.0	50.0	6.0	20.0
Acrolein	Ave	0.0421	0.0369		433	494	-12.4	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1218	0.1157		47.5	50.0	-5.0	20.0
1,1-Dichloroethene	Ave	0.1619	0.1602		49.5	50.0	-1.1	20.0
Acetone	Lin2		0.0641		193	200	-3.3	20.0
Iodomethane	Lin		0.0997		32.3	50.0	-35.5*	20.0
Carbon disulfide	Lin2		0.5306		52.8	50.0	5.6	20.0
Methyl acetate	Ave	0.1699	0.1742		102	100	2.5	20.0
3-Chloro-1-propene	Ave	0.2776	0.3126		56.3	50.0	12.6	20.0
Methylene Chloride	Lin2		0.2079		55.6	50.0	11.2	20.0
t-Butyl alcohol	Ave	0.0219	0.0197		449	500	-10.2	20.0
Acrylonitrile	Ave	0.0920	0.0954		518	500	3.6	20.0
Methyl tert-butyl ether	Ave	0.5467	0.5590		51.1	50.0	2.3	20.0
trans-1,2-Dichloroethene	Ave	0.1911	0.1916		50.1	50.0	0.3	20.0
Hexane	Ave	1.166	1.101		47.2	50.0	-5.6	20.0
Vinyl acetate	Ave	0.4119	0.4849		118	100	17.7	20.0
1,1-Dichloroethane	Ave	0.3497	0.3763	0.1000	53.8	50.0	7.6	20.0
2-Butanone (MEK)	Ave	0.1115	0.1120		201	200	0.4	20.0
cis-1,2-Dichloroethene	Ave	0.2126	0.2201		51.8	50.0	3.6	20.0
2,2-Dichloropropane	Ave	0.2367	0.2546		53.8	50.0	7.5	20.0
sec-Butyl Alcohol	Ave	0.0179	0.0178		1490	1500	-0.8	20.0
Bromochloromethane	Ave	0.0952	0.1009		53.0	50.0	6.0	20.0
Tetrahydrofuran	Ave	0.0739	0.0753		102	100	1.9	20.0
Chloroform	Ave	0.3358	0.3458		51.5	50.0	3.0	20.0
1,1,1-Trichloroethane	Ave	0.2658	0.2686		50.5	50.0	1.0	20.0
Cyclohexane	Ave	0.3386	0.3606		53.2	50.0	6.5	20.0
1,1-Dichloropropene	Ave	0.2785	0.2985		53.6	50.0	7.2	20.0
Carbon tetrachloride	Ave	0.2176	0.2266		52.1	50.0	4.2	20.0
Isobutyl alcohol	Ave	0.0077	0.0078		1260	1250	0.6	20.0
Benzene	Ave	0.8229	0.8738		53.1	50.0	6.2	20.0
1,2-Dichloroethane	Lin2		0.2670		51.8	50.0	3.6	20.0
Trichloroethene	Ave	0.2020	0.2036		50.4	50.0	0.8	20.0
2-Pentanone	Ave	0.1656	0.1715		207	200	3.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499912/2 Calibration Date: 06/24/2020 08:35

Instrument ID: VMS_P Calib Start Date: 06/01/2020 16:26

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/01/2020 20:33

Lab File ID: P2664.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.2566	0.2731		53.2	50.0	6.4	20.0
1,2-Dichloropropane	Ave	0.2126	0.2345		55.2	50.0	10.3	20.0
1,4-Dioxane	Ave	0.0030	0.0029		971	1000	-2.9	20.0
Dibromomethane	Ave	0.1219	0.1265		51.9	50.0	3.7	20.0
Bromodichloromethane	Ave	0.2467	0.2600		52.7	50.0	5.4	20.0
2-Chloroethyl vinyl ether	Ave	0.1471	0.1734		59.0	50.0	17.9	20.0
cis-1,3-Dichloropropene	Ave	1.341	1.417		52.8	50.0	5.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2126	0.2233		210	200	5.0	20.0
Toluene	Ave	0.8631	0.9020		52.3	50.0	4.5	20.0
trans-1,3-Dichloropropene	Ave	0.2701	0.2961		54.8	50.0	9.6	20.0
Ethyl methacrylate	Ave	1.229	1.276		51.9	50.0	3.9	20.0
1,1,2-Trichloroethane	Ave	0.1741	0.1837		52.8	50.0	5.5	20.0
Tetrachloroethene	Ave	0.6096	0.5956		48.9	50.0	-2.3	20.0
1,3-Dichloropropane	Ave	1.464	1.459		49.8	50.0	-0.3	20.0
2-Hexanone	Ave	0.6723	0.6694		199	200	-0.4	20.0
Dibromochloromethane	Ave	0.7527	0.7663		50.9	50.0	1.8	20.0
Ethylene Dibromide	Ave	0.8135	0.7865		48.3	50.0	-3.3	20.0
1-Chlorohexane	Lin2		1.128		51.2	50.0	2.4	20.0
Chlorobenzene	Ave	2.365	2.299	0.3000	48.6	50.0	-2.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.7285	0.7327		50.3	50.0	0.6	20.0
Ethylbenzene	Ave	1.298	1.297		49.9	50.0	-0.1	20.0
m-Xylene & p-Xylene	Ave	1.562	1.577		50.5	50.0	1.0	20.0
o-Xylene	Ave	1.501	1.510		50.3	50.0	0.7	20.0
Styrene	Ave	2.528	2.588		51.2	50.0	2.4	20.0
Bromoform	Ave	0.4449	0.4481	0.1000	50.4	50.0	0.7	20.0
Isopropylbenzene	Ave	2.617	2.626		50.2	50.0	0.4	20.0
Cyclohexanone	Ave	0.0512	0.0402		1570	2000	-21.5*	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7670	0.7266	0.3000	47.4	50.0	-5.3	20.0
Bromobenzene	Ave	0.6174	0.5779		46.8	50.0	-6.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2037	0.1843		45.2	50.0	-9.5	20.0
1,2,3-Trichloropropane	Ave	0.2327	0.2057		44.2	50.0	-11.6	20.0
N-Propylbenzene	Ave	0.7252	0.7079		48.8	50.0	-2.4	20.0
2-Chlorotoluene	Ave	0.6140	0.5861		47.7	50.0	-4.5	20.0
1,3,5-Trimethylbenzene	Ave	2.148	2.109		49.1	50.0	-1.8	20.0
4-Chlorotoluene	Ave	0.6432	0.6126		47.6	50.0	-4.7	20.0
tert-Butylbenzene	Ave	1.797	1.720		47.9	50.0	-4.3	20.0
1,2,4-Trimethylbenzene	Ave	2.171	2.119		48.8	50.0	-2.4	20.0
sec-Butylbenzene	Ave	0.5256	0.5056		48.1	50.0	-3.8	20.0
1,3-Dichlorobenzene	Ave	1.118	1.082		48.4	50.0	-3.2	20.0
4-Isopropyltoluene	Ave	2.197	2.172		49.4	50.0	-1.2	20.0
1,4-Dichlorobenzene	Ave	1.157	1.085		46.9	50.0	-6.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499912/2 Calibration Date: 06/24/2020 08:35

Instrument ID: VMS_P Calib Start Date: 06/01/2020 16:26

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/01/2020 20:33

Lab File ID: P2664.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
n-Butylbenzene	Ave	2.049	2.035		49.7	50.0	-0.7	20.0
1,2-Dichlorobenzene	Ave	1.110	1.045		47.1	50.0	-5.9	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1302	0.1195		45.9	50.0	-8.2	20.0
1,2,4-Trichlorobenzene	Ave	0.6038	0.5631		46.6	50.0	-6.7	20.0
Hexachlorobutadiene	Ave	0.2197	0.1887		43.0	50.0	-14.1	20.0
Naphthalene	Ave	1.952	1.862		47.7	50.0	-4.6	20.0
1,2,3-Trichlorobenzene	Ave	0.5553	0.5157		46.4	50.0	-7.1	20.0
Dibromofluoromethane (Surr)	Ave	0.2408	0.2416		50.2	50.0	0.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2833	0.2686		47.4	50.0	-5.2	20.0
Toluene-d8 (Surr)	Ave	4.400	4.295		48.8	50.0	-2.4	20.0
4-Bromofluorobenzene (Surr)	Ave	1.104	1.092		49.5	50.0	-1.0	20.0

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2664.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 24-Jun-2020 08:35:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Operator ID: SEIFERTJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 25-Jun-2020 10:00:56 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1058

First Level Reviewer: seifertj Date: 25-Jun-2020 09:51:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.113	5.113	0.000	99	2171618	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.646	7.646	0.000	86	516455	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.872	9.872	0.000	96	759799	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.606	4.606	0.000	93	524636	50.0	50.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.870	4.870	0.000	96	583201	50.0	47.4	
$ 6 Toluene-d8 (Surr)	98	6.369	6.369	0.000	93	2218098	50.0	48.8	
$ 7 4-Bromofluorobenzene (Surr)	95	8.743	8.743	0.000	82	829723	50.0	49.5	
10 Dichlorodifluoromethane	85	1.662	1.662	0.000	99	299430	50.0	49.2	
11 Chloromethane	50	1.842	1.842	0.000	99	431801	50.0	52.2	
12 Vinyl chloride	62	1.937	1.937	0.000	98	529510	50.0	55.7	
14 Bromomethane	94	2.232	2.232	0.000	90	146728	50.0	40.1	
15 Chloroethane	64	2.327	2.327	0.000	100	344019	50.0	56.8	
16 Dichlorofluoromethane	67	2.496	2.496	0.000	97	803734	50.0	56.9	
17 Trichlorofluoromethane	101	2.528	2.528	0.000	98	634518	50.0	54.1	
19 Ethyl ether	59	2.749	2.749	0.000	92	392051	50.0	53.0	
21 Acrolein	56	2.855	2.855	0.000	100	790317	493.8	432.6	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.939	2.939	0.000	70	251249	50.0	47.5	
22 1,1-Dichloroethene	96	2.939	2.939	0.000	97	347852	50.0	49.5	
24 Acetone	43	2.960	2.960	0.000	100	556550	200.0	193.3	
26 Iodomethane	142	3.066	3.066	0.000	98	216403	50.0	32.3	
27 Carbon disulfide	76	3.129	3.129	0.000	99	1152187	50.0	52.8	
29 Methyl acetate	43	3.192	3.192	0.000	98	756389	100.0	102.5	
30 3-Chloro-1-propene	41	3.213	3.213	0.000	94	678833	50.0	56.3	
31 Methylene Chloride	84	3.308	3.308	0.000	94	451389	50.0	55.6	
32 2-Methyl-2-propanol	59	3.351	3.351	0.000	97	427461	500.0	449.1	
33 Acrylonitrile	53	3.467	3.467	0.000	99	2070568	500.0	518.0	
34 Methyl tert-butyl ether	73	3.498	3.498	0.000	96	1213909	50.0	51.1	
35 trans-1,2-Dichloroethene	96	3.509	3.509	0.000	97	416132	50.0	50.1	
36 Hexane	57	3.709	3.709	0.000	91	568652	50.0	47.2	
38 Vinyl acetate	43	3.804	3.804	0.000	97	2105820	100.0	117.7	
39 1,1-Dichloroethane	63	3.836	3.836	0.000	96	817069	50.0	53.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	4.216	4.216	0.000	100	972463	200.0	200.9	
47 cis-1,2-Dichloroethene	96	4.248	4.248	0.000	83	478053	50.0	51.8	
48 2,2-Dichloropropane	77	4.258	4.258	0.000	90	552778	50.0	53.8	
50 sec-Butyl Alcohol	45	4.322	4.322	0.000	99	1158128	1500.0	1487.7	
53 Chlorobromomethane	128	4.427	4.427	0.000	98	219192	50.0	53.0	
52 Tetrahydrofuran	42	4.427	4.427	0.000	90	326956	100.0	101.9	
54 Chloroform	83	4.480	4.480	0.000	93	750862	50.0	51.5	
55 1,1,1-Trichloroethane	97	4.628	4.628	0.000	98	583349	50.0	50.5	
56 Cyclohexane	56	4.691	4.691	0.000	89	782982	50.0	53.2	
57 1,1-Dichloropropene	75	4.744	4.744	0.000	97	648252	50.0	53.6	
59 Carbon tetrachloride	117	4.744	4.744	0.000	83	492082	50.0	52.1	
58 Isobutyl alcohol	41	4.744	4.744	0.000	94	422327	1250.0	1257.3	
60 Benzene	78	4.891	4.891	0.000	97	1897540	50.0	53.1	
61 1,2-Dichloroethane	62	4.923	4.923	0.000	97	579851	50.0	51.8	
66 n-Heptane	43	5.081	5.081	0.000	93	560892	50.0	52.6	
67 Trichloroethene	95	5.387	5.387	0.000	99	442069	50.0	50.4	
68 2-Pentanone	43	5.482	5.482	0.000	99	1489981	200.0	207.2	
69 Methylcyclohexane	55	5.577	5.577	0.000	94	593018	50.0	53.2	
70 1,2-Dichloropropane	63	5.588	5.588	0.000	98	509314	50.0	55.2	
72 1,4-Dioxane	88	5.630	5.630	0.000	94	124827	1000.0	971.4	
73 Dibromomethane	93	5.662	5.662	0.000	93	274675	50.0	51.9	
74 Dichlorobromomethane	83	5.788	5.788	0.000	99	564594	50.0	52.7	
76 2-Chloroethyl vinyl ether	63	5.989	5.989	0.000	90	376627	50.0	59.0	
77 cis-1,3-Dichloropropene	75	6.137	6.137	0.000	96	731790	50.0	52.8	
78 4-Methyl-2-pentanone (MIBK)	43	6.242	6.242	0.000	96	1939544	200.0	210.0	
79 Toluene	91	6.432	6.432	0.000	98	1958872	50.0	52.3	
80 trans-1,3-Dichloropropene	75	6.601	6.601	0.000	97	643067	50.0	54.8	
81 Ethyl methacrylate	69	6.622	6.622	0.000	89	659181	50.0	51.9	
82 1,1,2-Trichloroethane	97	6.780	6.780	0.000	91	398878	50.0	52.8	
83 Tetrachloroethene	164	6.875	6.875	0.000	94	307617	50.0	48.9	
84 1,3-Dichloropropane	76	6.928	6.928	0.000	98	753619	50.0	49.8	
85 2-Hexanone	43	6.939	6.939	0.000	96	1382927	200.0	199.2	
86 Chlorodibromomethane	129	7.118	7.118	0.000	91	395765	50.0	50.9	
88 Ethylene Dibromide	107	7.245	7.245	0.000	98	406189	50.0	48.3	
89 1-Chlorohexane	91	7.635	7.635	0.000	98	582370	50.0	51.2	
90 Chlorobenzene	112	7.677	7.677	0.000	93	1187551	50.0	48.6	
92 Ethylbenzene	106	7.751	7.751	0.000	98	669625	50.0	49.9	
91 1,1,1,2-Tetrachloroethane	131	7.751	7.751	0.000	96	378410	50.0	50.3	
93 m-Xylene & p-Xylene	106	7.867	7.867	0.000	99	814689	50.0	50.5	
94 o-Xylene	106	8.226	8.226	0.000	97	780044	50.0	50.3	
95 Styrene	104	8.247	8.247	0.000	95	1336502	50.0	51.2	
96 Bromoform	173	8.427	8.427	0.000	93	231413	50.0	50.4	
97 Isopropylbenzene	105	8.574	8.574	0.000	96	1995437	50.0	50.2	
99 Cyclohexanone	55	8.659	8.659	0.000	92	830097	2000.0	1569.7	
100 1,1,2,2-Tetrachloroethane	83	8.859	8.859	0.000	93	552038	50.0	47.4	
101 Bromobenzene	156	8.891	8.891	0.000	95	439090	50.0	46.8	
102 trans-1,4-Dichloro-2-butene	53	8.891	8.891	0.000	82	140044	50.0	45.2	
103 1,2,3-Trichloropropane	110	8.923	8.923	0.000	83	156295	50.0	44.2	
104 N-Propylbenzene	120	8.965	8.965	0.000	99	537838	50.0	48.8	
105 2-Chlorotoluene	126	9.070	9.070	0.000	96	445343	50.0	47.7	
106 1,3,5-Trimethylbenzene	105	9.144	9.144	0.000	94	1602370	50.0	49.1	
107 4-Chlorotoluene	126	9.186	9.186	0.000	98	465466	50.0	47.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 tert-Butylbenzene	119	9.450	9.450	0.000	93	1307191	50.0	47.9	
109 1,2,4-Trimethylbenzene	105	9.513	9.513	0.000	97	1610189	50.0	48.8	
110 sec-Butylbenzene	134	9.672	9.672	0.000	94	384171	50.0	48.1	
111 1,3-Dichlorobenzene	146	9.798	9.798	0.000	97	822083	50.0	48.4	
112 4-Isopropyltoluene	119	9.820	9.820	0.000	97	1650303	50.0	49.4	
113 1,4-Dichlorobenzene	146	9.893	9.893	0.000	93	824598	50.0	46.9	
115 n-Butylbenzene	91	10.221	10.221	0.000	98	1546310	50.0	49.7	
116 1,2-Dichlorobenzene	146	10.252	10.252	0.000	98	793773	50.0	47.1	
117 1,2-Dibromo-3-Chloropropane	157	11.033	11.033	0.000	83	90793	50.0	45.9	
119 1,2,4-Trichlorobenzene	180	11.856	11.856	0.000	94	427865	50.0	46.6	
120 Hexachlorobutadiene	225	12.004	12.004	0.000	96	143407	50.0	43.0	
121 Naphthalene	128	12.131	12.131	0.000	97	1414747	50.0	47.7	
122 1,2,3-Trichlorobenzene	180	12.352	12.352	0.000	95	391854	50.0	46.4	
S 139 1,2-Dichloroethene, Total (URS)	96				0		100.0	101.9	
S 142 Xylenes, Total	106				0		100.0	100.8	
S 140 Trihalomethanes, Total	1				0		200.0	205.4	
S 143 Xylenes, Total (URS)	1				0		100.0	100.8	
S 145 1,3-Dichloropropene, Total	1				0		100.0	107.6	
S 144 1,2-Dichloroethene, Total	1				0		100.0	101.9	

Reagents:

MV-MegaMainA_00034	Amount Added:	25.00	Units: uL	
MV-Gas A_00059	Amount Added:	10.00	Units: uL	
mv-IS_SS_00006	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 25-Jun-2020 10:00:57 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2664.D

Injection Date: 24-Jun-2020 08:35:30 Instrument ID: VMS_P Operator ID: SEIFERTJ

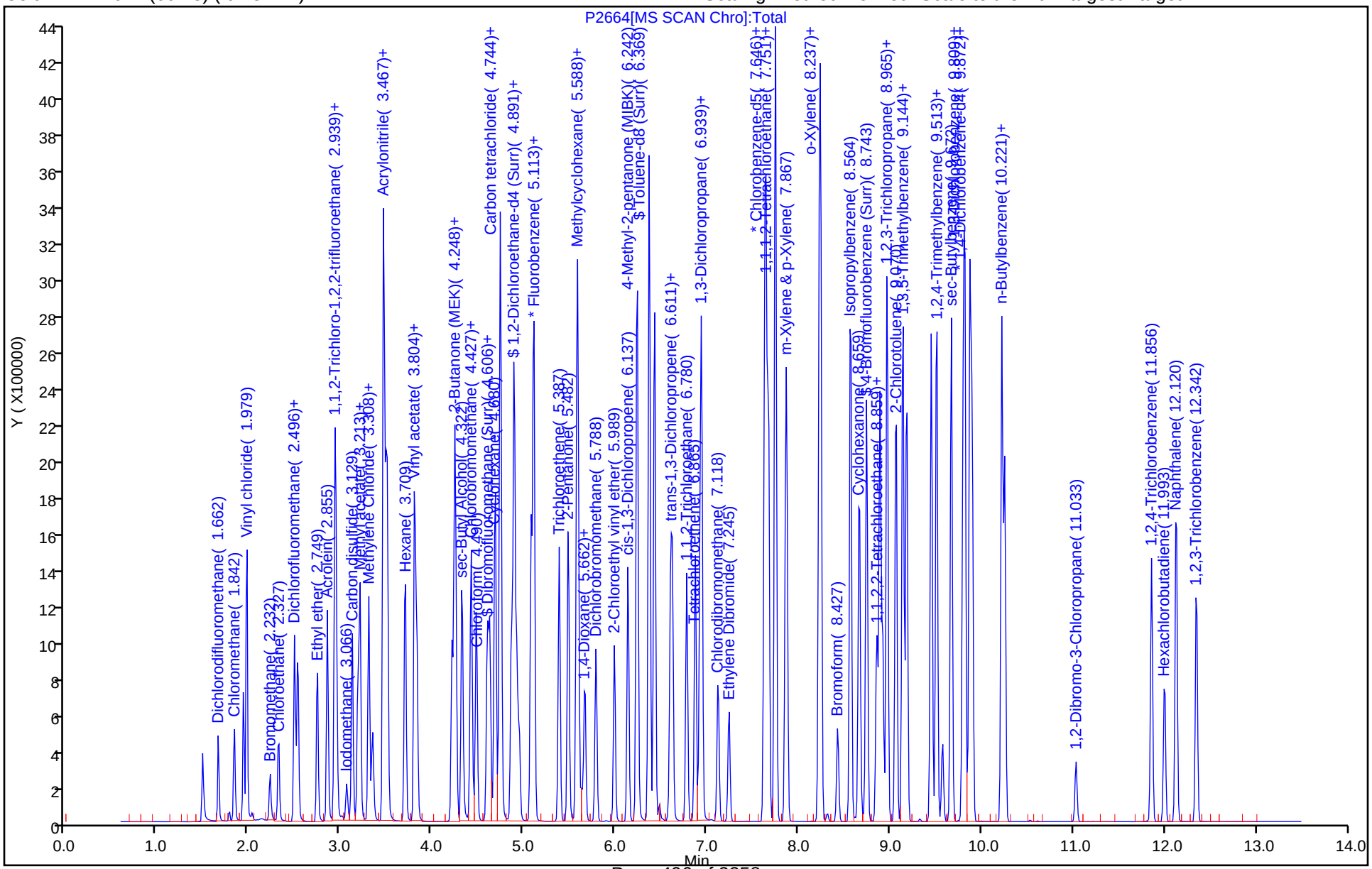
Lims ID: CCV Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 1

Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCVC 280-499912/34 Calibration Date: 06/24/2020 17:50

Instrument ID: VMS_P Calib Start Date: 06/01/2020 16:26

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/01/2020 20:33

Lab File ID: P2690.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.1402	0.1230		43.8	50.0	-12.3	50.0
Chloromethane	Lin2		0.1691	0.1000	44.4	50.0	-11.2	50.0
Vinyl chloride	Ave	0.2189	0.2107		48.1	50.0	-3.8	50.0
Bromomethane	Lin1		0.0410		23.7	50.0	-52.7*	50.0
Chloroethane	Ave	0.1394	0.1434		51.4	50.0	2.9	50.0
Dichlorofluoromethane	Ave	0.3255	0.3432		52.7	50.0	5.4	50.0
Trichlorofluoromethane	Ave	0.2702	0.2596		48.0	50.0	-3.9	50.0
Ethyl ether	Ave	0.1703	0.1879		55.2	50.0	10.4	50.0
Acrolein	Ave	0.0421	0.0427		501	494	1.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1218	0.1107		45.4	50.0	-9.1	50.0
1,1-Dichloroethene	Ave	0.1619	0.1593		49.2	50.0	-1.6	50.0
Acetone	Lin2		0.0767		232	200	15.8	50.0
Iodomethane	Lin		0.0727		23.7	50.0	-52.5*	50.0
Carbon disulfide	Lin2		0.5156		51.3	50.0	2.6	50.0
Methyl acetate	Ave	0.1699	0.1962		115	100	15.5	50.0
3-Chloro-1-propene	Ave	0.2776	0.3085		55.6	50.0	11.1	50.0
Methylene Chloride	Lin2		0.2060		55.1	50.0	10.2	50.0
t-Butyl alcohol	Ave	0.0219	0.0255		582	500	16.4	50.0
Acrylonitrile	Ave	0.0920	0.1065		579	500	15.7	50.0
Methyl tert-butyl ether	Ave	0.5467	0.5888		53.9	50.0	7.7	50.0
trans-1,2-Dichloroethene	Ave	0.1911	0.1897		49.6	50.0	-0.7	50.0
Hexane	Ave	1.166	1.012		43.4	50.0	-13.2	50.0
Vinyl acetate	Ave	0.4119	0.5050		123	100	22.6	50.0
1,1-Dichloroethane	Ave	0.3497	0.3824	0.1000	54.7	50.0	9.3	50.0
2-Butanone (MEK)	Ave	0.1115	0.1309		235	200	17.4	50.0
cis-1,2-Dichloroethene	Ave	0.2126	0.2212		52.0	50.0	4.1	50.0
2,2-Dichloropropane	Ave	0.2367	0.2267		47.9	50.0	-4.2	50.0
sec-Butyl Alcohol	Ave	0.0179	0.0232		1940	1500	29.6	50.0
Bromochloromethane	Ave	0.0952	0.1005		52.8	50.0	5.6	50.0
Tetrahydrofuran	Ave	0.0739	0.0907		123	100	22.7	50.0
Chloroform	Ave	0.3358	0.3470		51.7	50.0	3.3	50.0
1,1,1-Trichloroethane	Ave	0.2658	0.2691		50.6	50.0	1.2	50.0
Cyclohexane	Ave	0.3386	0.3615		53.4	50.0	6.8	50.0
1,1-Dichloropropene	Ave	0.2785	0.2931		52.6	50.0	5.2	50.0
Carbon tetrachloride	Ave	0.2176	0.2244		51.6	50.0	3.2	50.0
Isobutyl alcohol	Ave	0.0077	0.0100		1620	1250	29.6	50.0
Benzene	Ave	0.8229	0.8692		52.8	50.0	5.6	50.0
1,2-Dichloroethane	Lin2		0.2780		53.9	50.0	7.9	50.0
Trichloroethene	Ave	0.2020	0.2058		50.9	50.0	1.9	50.0
2-Pentanone	Ave	0.1656	0.2025		245	200	22.3	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCVC 280-499912/34 Calibration Date: 06/24/2020 17:50

Instrument ID: VMS_P Calib Start Date: 06/01/2020 16:26

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/01/2020 20:33

Lab File ID: P2690.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.2566	0.2676		52.1	50.0	4.3	50.0
1,2-Dichloropropane	Ave	0.2126	0.2379		55.9	50.0	11.9	50.0
1,4-Dioxane	Ave	0.0030	0.0034		1160	1000	16.0	50.0
Dibromomethane	Ave	0.1219	0.1316		54.0	50.0	7.9	50.0
Bromodichloromethane	Ave	0.2467	0.2610		52.9	50.0	5.8	50.0
2-Chloroethyl vinyl ether	Ave	0.1471	0.1697		57.7	50.0	15.4	50.0
cis-1,3-Dichloropropene	Ave	1.341	1.387		51.7	50.0	3.4	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2126	0.2615		246	200	23.0	50.0
Toluene	Ave	0.8631	0.9088		52.6	50.0	5.3	50.0
trans-1,3-Dichloropropene	Ave	0.2701	0.2979		55.1	50.0	10.3	50.0
Ethyl methacrylate	Ave	1.229	1.346		54.8	50.0	9.6	50.0
1,1,2-Trichloroethane	Ave	0.1741	0.1918		55.1	50.0	10.2	50.0
Tetrachloroethene	Ave	0.6096	0.5755		47.2	50.0	-5.6	50.0
1,3-Dichloropropane	Ave	1.464	1.482		50.6	50.0	1.3	50.0
2-Hexanone	Ave	0.6723	0.7902		235	200	17.5	50.0
Dibromochloromethane	Ave	0.7527	0.7765		51.6	50.0	3.2	50.0
Ethylene Dibromide	Ave	0.8135	0.7983		49.1	50.0	-1.9	50.0
1-Chlorohexane	Lin2		1.098		49.8	50.0	-0.3	50.0
Chlorobenzene	Ave	2.365	2.273	0.3000	48.0	50.0	-3.9	50.0
1,1,1,2-Tetrachloroethane	Ave	0.7285	0.7256		49.8	50.0	-0.4	50.0
Ethylbenzene	Ave	1.298	1.275		49.1	50.0	-1.8	50.0
m-Xylene & p-Xylene	Ave	1.562	1.569		50.2	50.0	0.4	50.0
o-Xylene	Ave	1.501	1.516		50.5	50.0	1.0	50.0
Styrene	Ave	2.528	2.589		51.2	50.0	2.4	50.0
Bromoform	Ave	0.4449	0.4705	0.1000	52.9	50.0	5.7	50.0
Isopropylbenzene	Ave	2.617	2.563		49.0	50.0	-2.1	50.0
Cyclohexanone	Ave	0.0512	0.0431		1680	2000	-15.9	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7670	0.7664	0.3000	50.0	50.0	-0.0	50.0
Bromobenzene	Ave	0.6174	0.5731		46.4	50.0	-7.2	50.0
trans-1,4-Dichloro-2-butene	Ave	0.2037	0.1797		44.1	50.0	-11.8	50.0
1,2,3-Trichloropropane	Ave	0.2327	0.2204		47.3	50.0	-5.3	50.0
N-Propylbenzene	Ave	0.7252	0.6918		47.7	50.0	-4.6	50.0
2-Chlorotoluene	Ave	0.6140	0.5787		47.1	50.0	-5.7	50.0
1,3,5-Trimethylbenzene	Ave	2.148	2.076		48.3	50.0	-3.4	50.0
4-Chlorotoluene	Ave	0.6432	0.5999		46.6	50.0	-6.7	50.0
tert-Butylbenzene	Ave	1.797	1.702		47.4	50.0	-5.3	50.0
1,2,4-Trimethylbenzene	Ave	2.171	2.103		48.4	50.0	-3.1	50.0
sec-Butylbenzene	Ave	0.5256	0.4948		47.1	50.0	-5.9	50.0
1,3-Dichlorobenzene	Ave	1.118	1.076		48.1	50.0	-3.7	50.0
4-Isopropyltoluene	Ave	2.197	2.093		47.6	50.0	-4.8	50.0
1,4-Dichlorobenzene	Ave	1.157	1.082		46.7	50.0	-6.5	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCVC 280-499912/34 Calibration Date: 06/24/2020 17:50

Instrument ID: VMS_P Calib Start Date: 06/01/2020 16:26

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 06/01/2020 20:33

Lab File ID: P2690.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
n-Butylbenzene	Ave	2.049	1.940		47.3	50.0	-5.3	50.0
1,2-Dichlorobenzene	Ave	1.110	1.039		46.8	50.0	-6.4	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1302	0.1331		51.1	50.0	2.2	50.0
1,2,4-Trichlorobenzene	Ave	0.6038	0.5558		46.0	50.0	-8.0	50.0
Hexachlorobutadiene	Ave	0.2197	0.1764		40.1	50.0	-19.7	50.0
Naphthalene	Ave	1.952	1.991		51.0	50.0	2.0	50.0
1,2,3-Trichlorobenzene	Ave	0.5553	0.5235		47.1	50.0	-5.7	50.0
Dibromofluoromethane (Surr)	Ave	0.2408	0.2453		50.9	50.0	1.9	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2833	0.2763		48.8	50.0	-2.5	50.0
Toluene-d8 (Surr)	Ave	4.400	4.262		48.4	50.0	-3.1	50.0
4-Bromofluorobenzene (Surr)	Ave	1.104	1.085		49.2	50.0	-1.7	50.0

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2690.D
Lims ID: CCVC
Client ID:
Sample Type: CCVC
Inject. Date: 24-Jun-2020 17:50:30 ALS Bottle#: 27 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVC
Misc. Info.: 280-0092699-034
Operator ID: SEIFERTJ Instrument ID: VMS_P
Sublist: chrom-AQ_VMSP_8260*sub175

Method: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 25-Jun-2020 10:00:51 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1058

First Level Reviewer: petuninp Date: 24-Jun-2020 18:06:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.110	5.113	-0.003	99	2165377	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.643	7.646	-0.003	88	521900	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.869	9.873	-0.004	96	773212	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.603	4.606	-0.003	92	531232	50.0	50.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.867	4.870	-0.003	97	598266	50.0	48.8	
$ 6 Toluene-d8 (Surr)	98	6.366	6.369	-0.003	93	2224116	50.0	48.4	
$ 7 4-Bromofluorobenzene (Surr)	95	8.740	8.743	-0.003	82	838979	50.0	49.2	
10 Dichlorodifluoromethane	85	1.670	1.662	0.008	99	266231	50.0	43.8	
11 Chloromethane	50	1.839	1.842	-0.004	99	366206	50.0	44.4	
12 Vinyl chloride	62	1.944	1.937	0.007	98	456130	50.0	48.1	
14 Bromomethane	94	2.229	2.232	-0.003	90	88874	50.0	23.7	
15 Chloroethane	64	2.324	2.327	-0.003	100	310488	50.0	51.4	
16 Dichlorofluoromethane	67	2.493	2.496	-0.003	97	743051	50.0	52.7	
17 Trichlorofluoromethane	101	2.535	2.528	0.007	98	562178	50.0	48.0	
19 Ethyl ether	59	2.746	2.749	-0.003	92	406963	50.0	55.2	
21 Acrolein	56	2.852	2.855	-0.003	100	911978	493.8	500.7	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.936	2.939	-0.003	93	239748	50.0	45.4	
22 1,1-Dichloroethene	96	2.947	2.939	0.008	97	344969	50.0	49.2	
24 Acetone	43	2.957	2.960	-0.003	100	664285	200.0	231.6	
26 Iodomethane	142	3.063	3.066	-0.003	98	157480	50.0	23.7	
27 Carbon disulfide	76	3.126	3.129	-0.003	99	1116475	50.0	51.3	
29 Methyl acetate	43	3.189	3.192	-0.003	98	849824	100.0	115.5	
30 3-Chloro-1-propene	41	3.210	3.213	-0.003	94	667941	50.0	55.6	
31 Methylene Chloride	84	3.305	3.308	-0.003	94	446079	50.0	55.1	
32 2-Methyl-2-propanol	59	3.348	3.351	-0.003	97	552588	500.0	582.2	
33 Acrylonitrile	53	3.474	3.467	0.007	98	2305768	500.0	578.6	
34 Methyl tert-butyl ether	73	3.495	3.498	-0.003	96	1274910	50.0	53.9	
35 trans-1,2-Dichloroethene	96	3.516	3.509	0.007	97	410772	50.0	49.6	
36 Hexane	57	3.706	3.709	-0.003	91	528017	50.0	43.4	
38 Vinyl acetate	43	3.812	3.804	0.008	97	2187042	100.0	122.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.833	3.836	-0.003	96	827982	50.0	54.7	
44 2-Butanone (MEK)	43	4.213	4.216	-0.003	100	1133407	200.0	234.8	
47 cis-1,2-Dichloroethene	96	4.245	4.248	-0.003	83	479049	50.0	52.0	
48 2,2-Dichloropropane	77	4.255	4.258	-0.003	92	490856	50.0	47.9	
50 sec-Butyl Alcohol	45	4.329	4.322	0.007	99	1509319	1500.0	1944.5	
53 Chlorobromomethane	128	4.424	4.427	-0.003	97	217698	50.0	52.8	
52 Tetrahydrofuran	42	4.435	4.427	0.007	89	392769	100.0	122.7	
54 Chloroform	83	4.487	4.480	0.007	93	751306	50.0	51.7	
55 1,1,1-Trichloroethane	97	4.624	4.628	-0.004	98	582775	50.0	50.6	
56 Cyclohexane	56	4.688	4.691	-0.003	90	782856	50.0	53.4	
57 1,1-Dichloropropene	75	4.741	4.744	-0.003	97	634716	50.0	52.6	
59 Carbon tetrachloride	117	4.751	4.744	0.007	73	485972	50.0	51.6	
58 Isobutyl alcohol	41	4.751	4.744	0.007	94	542573	1250.0	1619.9	
60 Benzene	78	4.899	4.891	0.008	96	1882204	50.0	52.8	
61 1,2-Dichloroethane	62	4.920	4.923	-0.003	97	601963	50.0	53.9	
66 n-Heptane	43	5.078	5.081	-0.003	92	508618	50.0	47.8	
67 Trichloroethene	95	5.384	5.387	-0.003	98	445643	50.0	50.9	
68 2-Pentanone	43	5.479	5.482	-0.003	99	1754302	200.0	244.6	
69 Methylcyclohexane	55	5.585	5.577	0.008	92	579394	50.0	52.1	
70 1,2-Dichloropropane	63	5.595	5.588	0.007	98	515041	50.0	55.9	
72 1,4-Dioxane	88	5.638	5.630	0.008	93	148592	1000.0	1159.7	
73 Dibromomethane	93	5.669	5.662	0.007	91	284987	50.0	54.0	
74 Dichlorobromomethane	83	5.785	5.788	-0.003	99	565091	50.0	52.9	
76 2-Chloroethyl vinyl ether	63	5.986	5.989	-0.003	90	367398	50.0	57.7	
77 cis-1,3-Dichloropropene	75	6.134	6.137	-0.003	96	723695	50.0	51.7	
78 4-Methyl-2-pentanone (MIBK)	43	6.239	6.242	-0.003	96	2264643	200.0	245.9	
79 Toluene	91	6.429	6.432	-0.003	98	1967824	50.0	52.6	
80 trans-1,3-Dichloropropene	75	6.598	6.601	-0.003	96	644954	50.0	55.1	
81 Ethyl methacrylate	69	6.619	6.622	-0.003	89	702677	50.0	54.8	
82 1,1,2-Trichloroethane	97	6.777	6.780	-0.003	91	415272	50.0	55.1	
83 Tetrachloroethene	164	6.872	6.875	-0.003	93	300357	50.0	47.2	
84 1,3-Dichloropropane	76	6.925	6.928	-0.003	97	773671	50.0	50.6	
85 2-Hexanone	43	6.936	6.939	-0.003	96	1649677	200.0	235.1	
86 Chlorodibromomethane	129	7.125	7.118	0.007	90	405236	50.0	51.6	
88 Ethylene Dibromide	107	7.242	7.245	-0.003	98	416633	50.0	49.1	
89 1-Chlorohexane	91	7.632	7.635	-0.003	98	573059	50.0	49.8	
90 Chlorobenzene	112	7.674	7.677	-0.003	93	1186122	50.0	48.0	
92 Ethylbenzene	106	7.748	7.751	-0.003	99	665250	50.0	49.1	
91 1,1,1,2-Tetrachloroethane	131	7.748	7.751	-0.003	96	378678	50.0	49.8	
93 m-Xylene & p-Xylene	106	7.864	7.867	-0.003	99	818720	50.0	50.2	
94 o-Xylene	106	8.223	8.226	-0.003	97	791361	50.0	50.5	
95 Styrene	104	8.244	8.247	-0.003	95	1351207	50.0	51.2	
96 Bromoform	173	8.423	8.427	-0.004	94	245545	50.0	52.9	
97 Isopropylbenzene	105	8.571	8.574	-0.003	96	1981814	50.0	49.0	
99 Cyclohexanone	55	8.666	8.659	0.007	91	898748	2000.0	1681.8	
100 1,1,2,2-Tetrachloroethane	83	8.856	8.859	-0.003	93	592592	50.0	50.0	
101 Bromobenzene	156	8.888	8.891	-0.003	96	443126	50.0	46.4	
102 trans-1,4-Dichloro-2-butene	53	8.888	8.891	-0.003	84	138978	50.0	44.1	
103 1,2,3-Trichloropropane	110	8.919	8.923	-0.004	82	170389	50.0	47.3	
104 N-Propylbenzene	120	8.962	8.965	-0.003	99	534933	50.0	47.7	
105 2-Chlorotoluene	126	9.067	9.070	-0.003	96	447462	50.0	47.1	
106 1,3,5-Trimethylbenzene	105	9.141	9.144	-0.003	94	1605298	50.0	48.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Chlorotoluene	126	9.183	9.186	-0.003	98	463853	50.0	46.6	
108 tert-Butylbenzene	119	9.447	9.450	-0.003	94	1316070	50.0	47.4	
109 1,2,4-Trimethylbenzene	105	9.510	9.513	-0.003	97	1626402	50.0	48.4	
110 sec-Butylbenzene	134	9.669	9.672	-0.003	94	382602	50.0	47.1	
111 1,3-Dichlorobenzene	146	9.795	9.798	-0.003	98	831922	50.0	48.1	
112 4-Isopropyltoluene	119	9.816	9.820	-0.004	97	1617965	50.0	47.6	
113 1,4-Dichlorobenzene	146	9.901	9.893	0.008	94	836685	50.0	46.7	
115 n-Butylbenzene	91	10.217	10.221	-0.004	98	1499956	50.0	47.3	
116 1,2-Dichlorobenzene	146	10.249	10.252	-0.003	97	803019	50.0	46.8	
117 1,2-Dibromo-3-Chloropropane	157	11.030	11.033	-0.003	82	102899	50.0	51.1	
119 1,2,4-Trichlorobenzene	180	11.853	11.856	-0.003	94	429746	50.0	46.0	
120 Hexachlorobutadiene	225	12.001	12.004	-0.003	97	136389	50.0	40.1	
121 Naphthalene	128	12.127	12.131	-0.004	97	1539237	50.0	51.0	
122 1,2,3-Trichlorobenzene	180	12.349	12.352	-0.003	95	404804	50.0	47.1	
S 139 1,2-Dichloroethene, Total (URS)	96				0		100.0	101.7	
S 142 Xylenes, Total	106				0		100.0	100.7	
S 140 Trihalomethanes, Total	1				0		200.0	209.0	
S 143 Xylenes, Total (URS)	1				0		100.0	100.7	
S 146 Total BTEX	1				0			255.3	
S 145 1,3-Dichloropropene, Total	1				0		100.0	106.8	
S 144 1,2-Dichloroethene, Total	1				0		100.0	101.7	

Reagents:

MV-Gas A_00059	Amount Added: 10.00	Units: uL	
MV-MegaMainA_00034	Amount Added: 25.00	Units: uL	
mv-IS_SS_00006	Amount Added: 5.00	Units: uL	Run Reagent

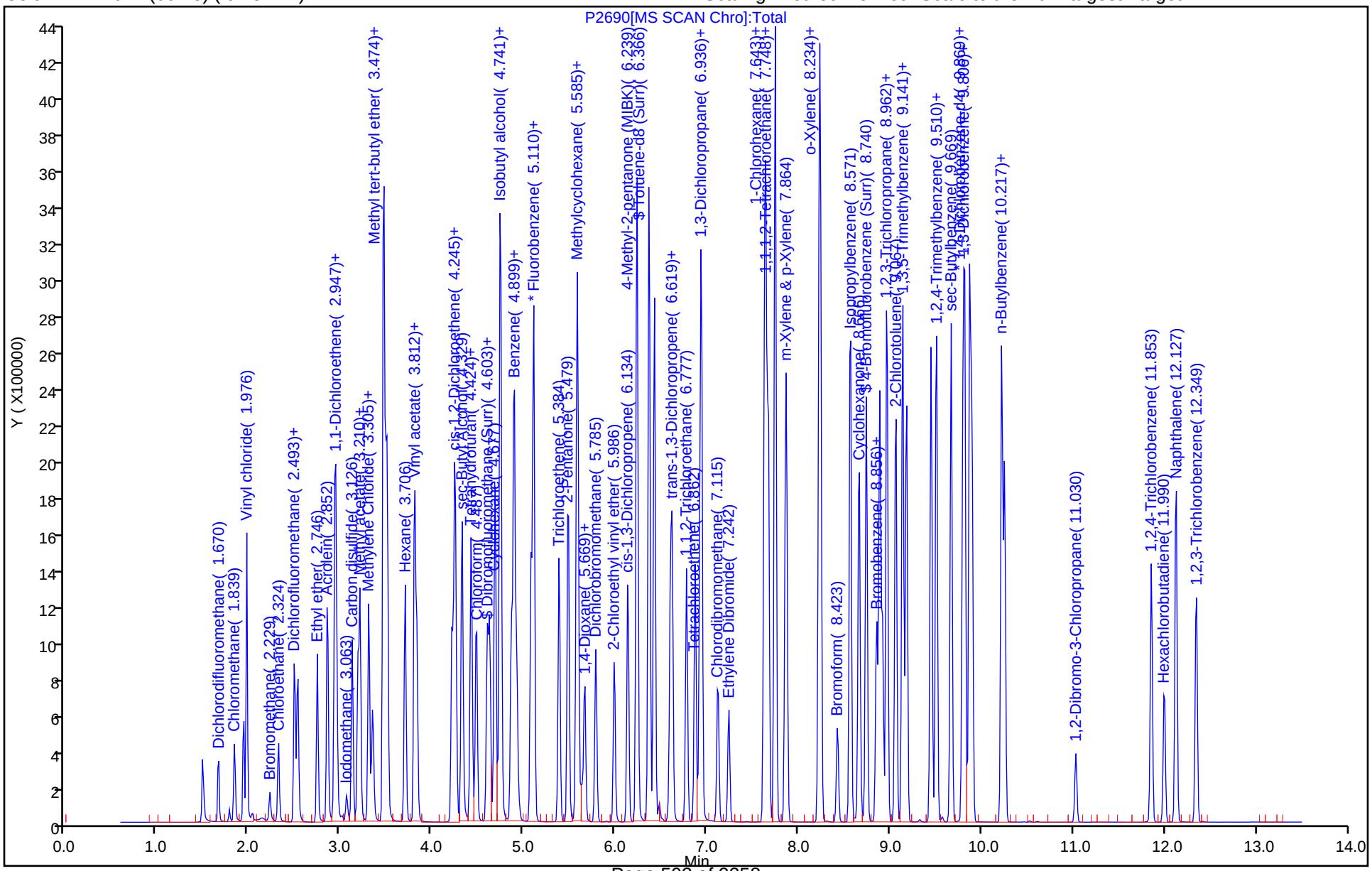
Report Date: 25-Jun-2020 10:00:52 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2690.D

Injection Date:	24-Jun-2020 17:50:30	Instrument ID:	VMS_P	Operator ID:	SEIFERTJ
Lims ID:	CCVC			Worklist Smp#:	34
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658A.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 01-Jun-2020 16:26:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Operator ID: SEIFERTJ Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Jun-2020 22:08:33 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1050

First Level Reviewer: ornelasg Date: 01-Jun-2020 22:05:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 9 BFB	95	8.742	8.742	0.000	0	867490	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

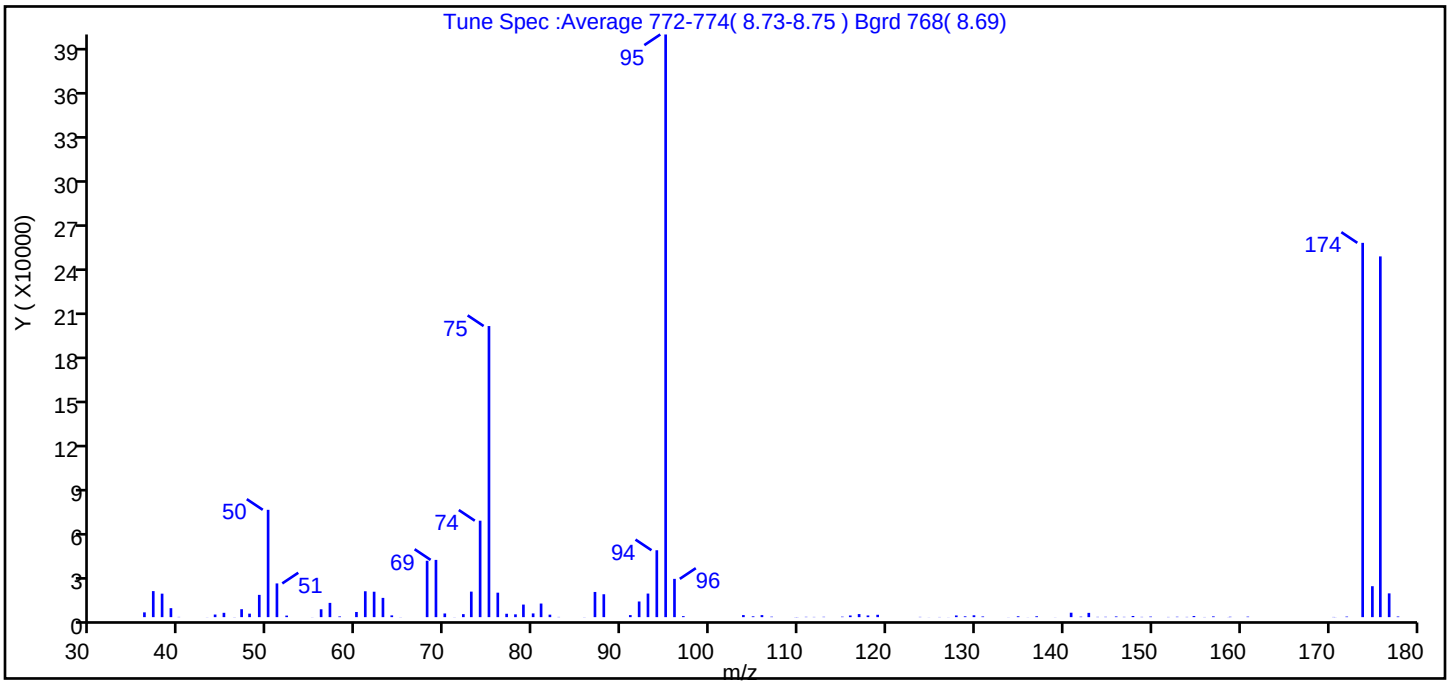
mv-Cent BFB_00002 Amount Added: 2.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658A.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: BFB
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Tune Method: BFB Method 8260

$ 9 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.4
75	30 to 60% of m/z 95	50.0
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	64.2
175	5 to 9% of m/z 174	5.3 (8.3)
176	Greater than 95% but less than 101% of m/z 174	61.9 (96.4)
177	5 to 9% of m/z 176	4.1 (6.6)

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658A.D\AQ_VMSP_8260.rslt\spectra.d
Injection Date: 01-Jun-2020 16:26:30
Spectrum: Tune Spec :Average 772-774(8.73-8.75) Bgrd 768(8.69)
Base Peak: 94.95
Minimum % Base Peak: 0
Number of Points: 105

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3230	70.00	2479	107.00	303	144.00	188
37.00	17584	71.00	77	110.00	86	145.00	230
38.00	15864	72.00	2025	110.00	99	146.00	470
39.00	6066	73.00	17240	111.00	215	147.00	187
40.00	154	74.00	65144	112.00	152	148.00	779
43.00	59	75.00	196608	113.00	226	149.00	174
44.00	1759	76.00	16528	115.00	319	150.00	371
45.00	2924	77.00	2291	116.00	1125	152.00	141
46.00	93	78.00	1894	117.00	2068	153.00	270
47.00	5367	79.00	8494	118.00	1141	154.00	164
48.00	2358	80.00	2509	119.00	1593	155.00	739
49.00	15041	81.00	9191	124.00	174	156.00	113
50.00	72488	82.00	1672	125.00	54	157.00	502
51.00	22776	83.00	142	126.00	121	159.00	56
52.00	1047	86.00	82	127.00	57	159.00	255
55.00	65	87.00	17016	128.00	1132	161.00	345
56.00	5313	88.00	15465	129.00	551	171.00	131
57.00	9635	91.00	1375	130.00	1251	171.00	70
58.00	459	92.00	10577	131.00	460	172.00	383
60.00	3483	93.00	15925	134.00	62	174.00	252800
61.00	17480	94.00	45184	135.00	583	175.00	20896
62.00	17168	95.00	393536	136.00	54	176.00	243648
63.00	13012	96.00	25856	137.00	591	177.00	16056
64.00	1189	97.00	668	139.00	58	178.00	431
65.00	79	104.00	1393	141.00	2986		
68.00	38072	105.00	552	142.00	313		
69.00	38664	106.00	1381	143.00	2887		

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

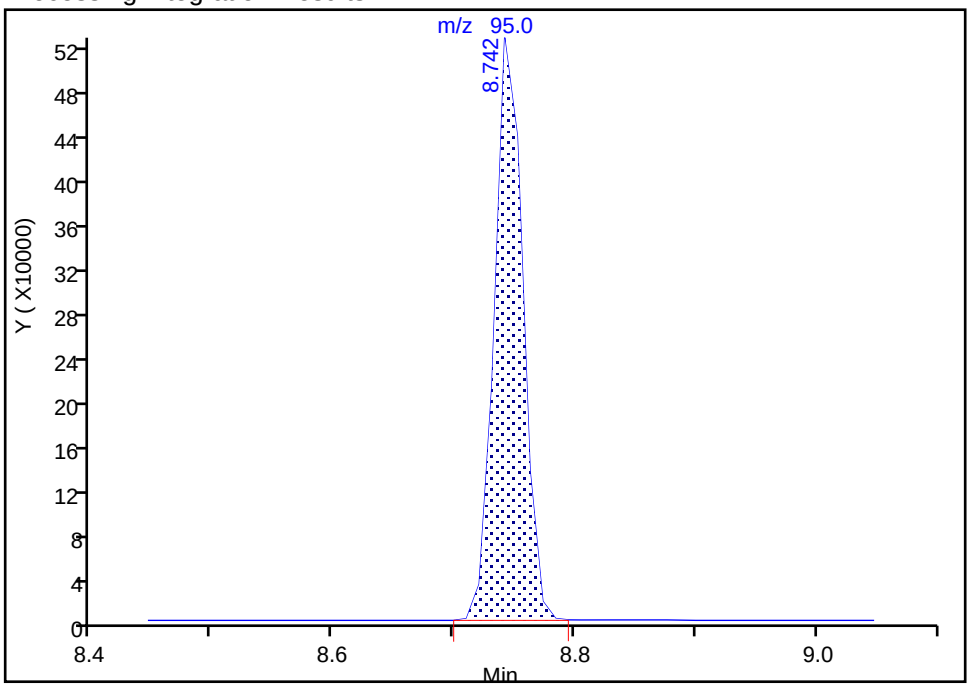
Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658A.D
Injection Date: 01-Jun-2020 16:26:30 Instrument ID: VMS_P
Lims ID: BFB
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

$ 9 BFB, CAS: 460-00-4

Signal: 1

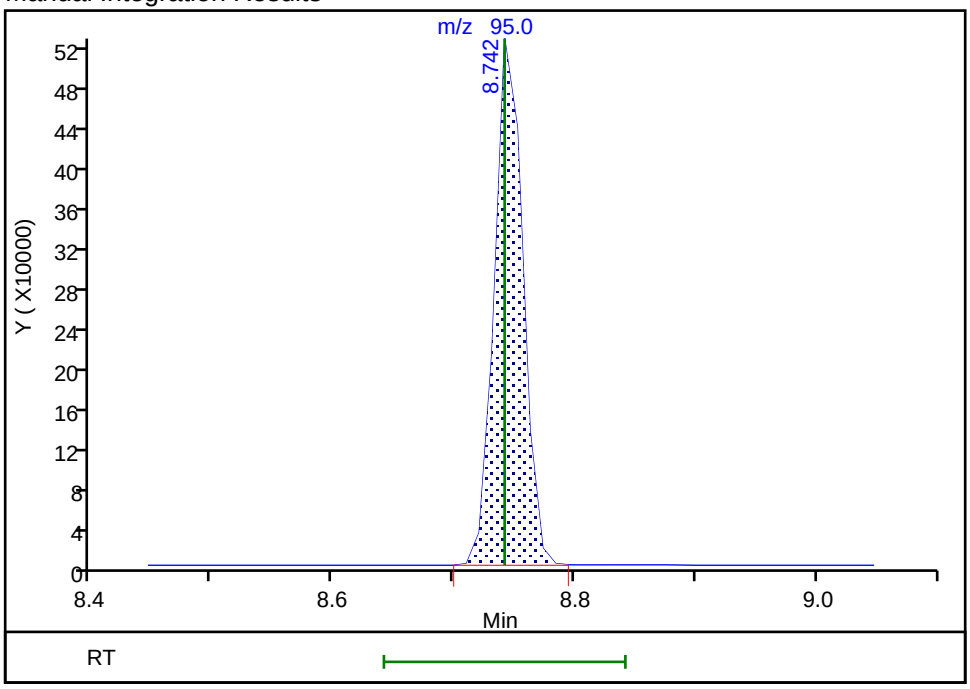
Processing Integration Results

RT: 8.74
Area: 867490
Amount: 0
Amount Units: ug/l



Manual Integration Results

RT: 8.74
Area: 867490
Amount: 0
Amount Units: ug/l



Reviewer: ornelasg, 01-Jun-2020 22:05:01
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

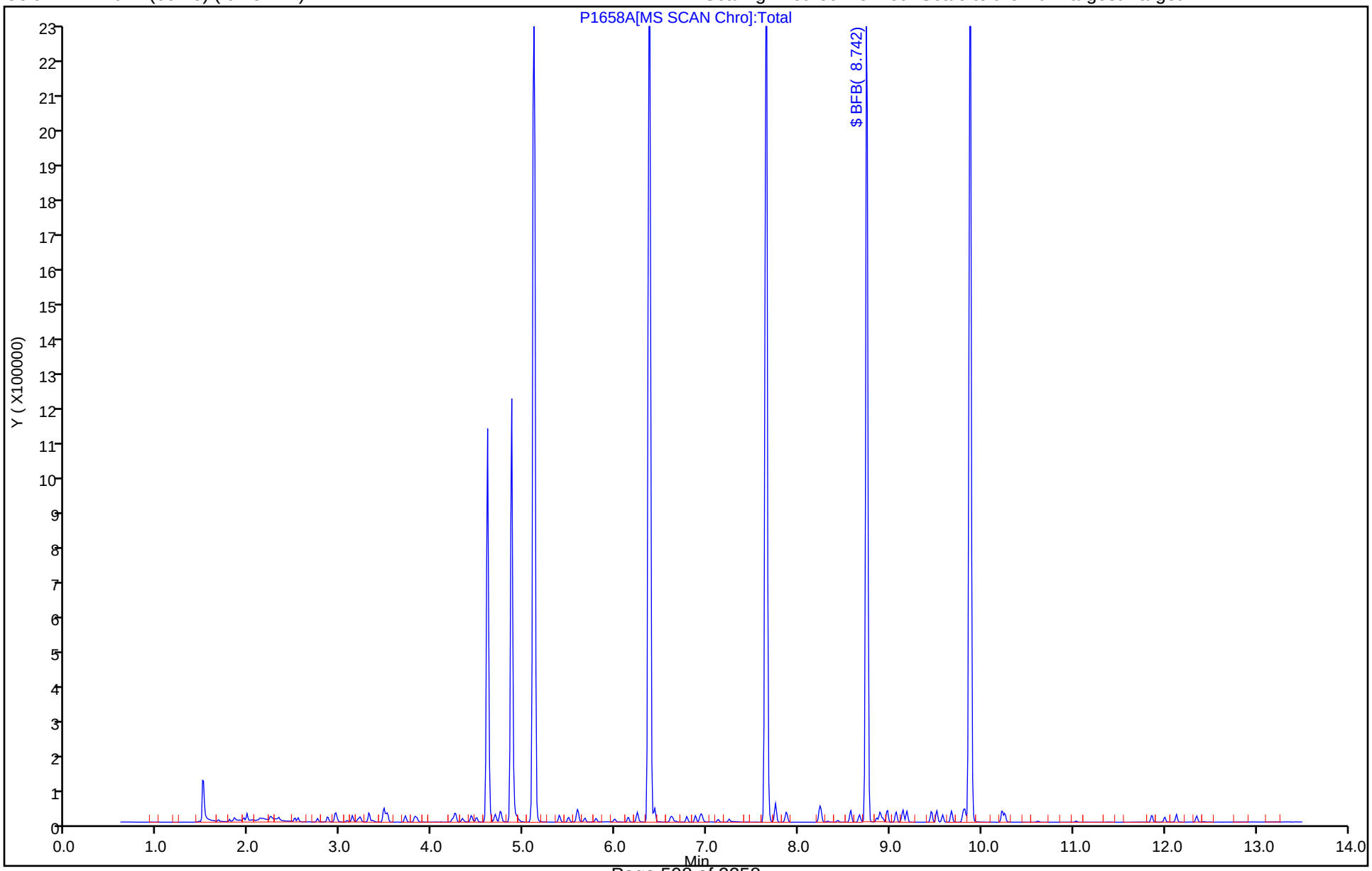
Report Date: 01-Jun-2020 22:08:34 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1658A.D

Injection Date:	01-Jun-2020 16:26:30	Instrument ID:	VMS_P	Operator ID:	SEIFERTJ
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	2.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2663.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	24-Jun-2020 08:05:30	ALS Bottle#:	100	Worklist Smp#:	1
Injection Vol:	2.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Operator ID:	SEIFERTJ	Instrument ID:	VMS_P		
Method:	\\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\AQ_VMSP_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	25-Jun-2020 10:00:54	Calib Date:	01-Jun-2020 20:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1058				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 9 BFB	95	3.577	3.577	0.000	87	701087	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

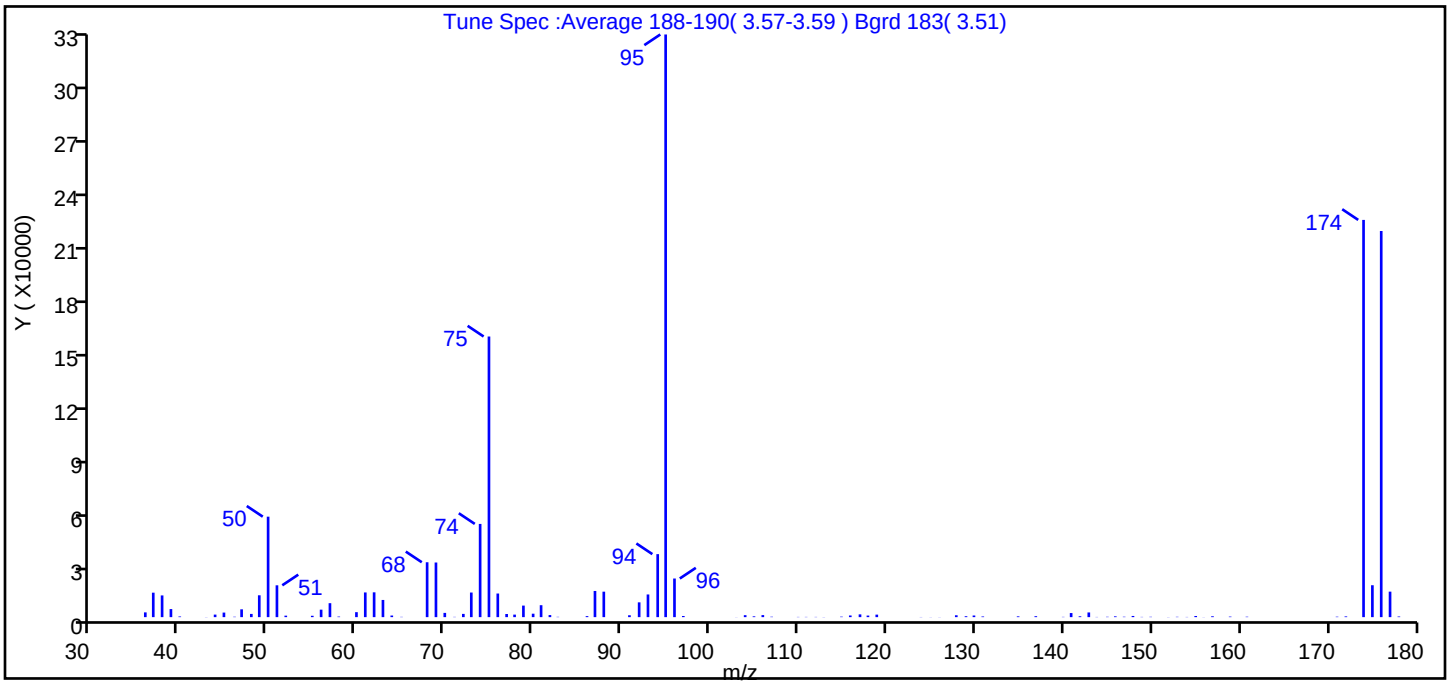
mv-Cent BFB_00002 Amount Added: 2.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2663.D
Injection Date: 24-Jun-2020 08:05:30 Instrument ID: VMS_P
Lims ID: BFB
Client ID:
Operator ID: SEIFERTJ ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid
Tune Method: BFB Method 8260

$ 9 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.2
75	30 to 60% of m/z 95	48.2
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	68.2
175	5 to 9% of m/z 174	5.5 (8.0)
176	Greater than 95% but less than 101% of m/z 174	66.3 (97.2)
177	5 to 9% of m/z 176	4.4 (6.6)

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2663.D\AQ_VMSP_8260.rslt\spectra.d
Injection Date: 24-Jun-2020 08:05:30
Spectrum: Tune Spec :Average 188-190(3.57-3.59) Bgrd 183(3.51)
Base Peak: 94.95
Minimum % Base Peak: 0
Number of Points: 100

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2690	68.00	31032	97.00	634	141.00	2311
37.00	13833	69.00	30888	103.00	52	142.00	473
38.00	12277	70.00	2404	104.00	1107	143.00	2653
39.00	4561	71.00	148	105.00	454	144.00	114
40.00	375	72.00	1839	106.00	1157	145.00	205
43.00	72	73.00	13918	107.00	236	146.00	450
44.00	1438	74.00	52704	110.00	129	147.00	231
45.00	2581	75.00	158656	111.00	136	148.00	665
46.00	221	76.00	13354	112.00	132	149.00	134
47.00	4425	77.00	1775	113.00	76	150.00	197
48.00	1824	78.00	1429	115.00	281	152.00	72
49.00	12358	79.00	6528	116.00	937	153.00	190
50.00	56800	80.00	1950	117.00	1564	154.00	113
51.00	18000	81.00	6751	118.00	891	155.00	647
52.00	840	82.00	1170	119.00	1419	156.00	57
55.00	770	83.00	166	124.00	90	157.00	483
56.00	4235	86.00	578	125.00	60	159.00	305
57.00	7893	87.00	14794	126.00	64	161.00	245
58.00	321	88.00	14402	128.00	1056	171.00	258
60.00	2817	91.00	1066	129.00	517	172.00	417
61.00	13963	92.00	8365	130.00	927	174.00	224576
62.00	14028	93.00	12821	131.00	376	175.00	18040
63.00	9718	94.00	35624	135.00	441	176.00	218304
64.00	913	95.00	329408	137.00	536	177.00	14415
65.00	159	96.00	21840	140.00	152	178.00	363

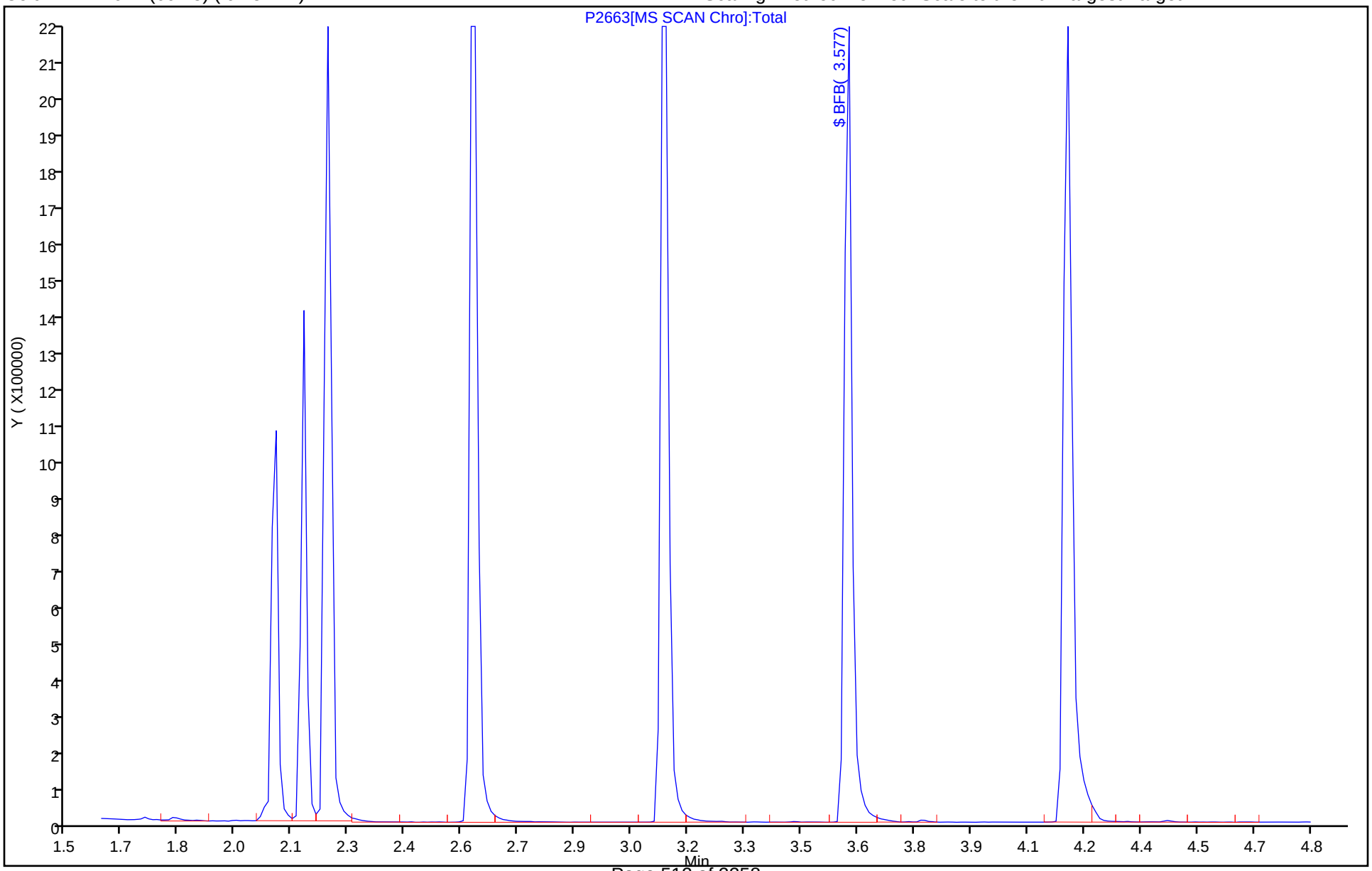
Report Date: 25-Jun-2020 10:00:55 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2663.D

Injection Date:	24-Jun-2020 08:05:30	Instrument ID:	VMS_P	Operator ID:	SEIFERTJ
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	2.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	100
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-499912/10

Matrix: Water Lab File ID: P2668.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/24/2020 10:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 499912 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	0.40	U	1.0	0.40	0.16
79-34-5	1,1,2,2-Tetrachloroethane	0.80	U	1.0	0.80	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.40	U	3.0	0.40	0.18
79-00-5	1,1,2-Trichloroethane	0.80	U	1.0	0.80	0.27
75-34-3	1,1-Dichloroethane	0.80	U	1.0	0.80	0.22
75-35-4	1,1-Dichloroethene	0.80	U	1.0	0.80	0.23
87-61-6	1,2,3-Trichlorobenzene	0.80	U	1.0	0.80	0.21
120-82-1	1,2,4-Trichlorobenzene	0.80	U	1.0	0.80	0.21
96-12-8	1,2-Dibromo-3-Chloropropane	1.6	U	5.0	1.6	0.47
95-50-1	1,2-Dichlorobenzene	0.40	U	1.0	0.40	0.15
107-06-2	1,2-Dichloroethane	0.40	U	1.0	0.40	0.13
78-87-5	1,2-Dichloropropane	0.40	U	1.0	0.40	0.18
541-73-1	1,3-Dichlorobenzene	0.40	U	1.0	0.40	0.13
106-46-7	1,4-Dichlorobenzene	0.40	U	1.0	0.40	0.16
78-93-3	2-Butanone (MEK)	4.0	U	6.0	4.0	2.0
591-78-6	2-Hexanone	4.0	U	5.0	4.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	3.2	U	5.0	3.2	0.98
67-64-1	Acetone	6.4	U	10	6.4	1.9
71-43-2	Benzene	0.40	U	1.0	0.40	0.16
74-97-5	Bromochloromethane	0.20	U	1.0	0.20	0.10
75-27-4	Bromodichloromethane	0.40	U	1.0	0.40	0.17
75-25-2	Bromoform	1.0	U	1.0	1.0	0.46
74-83-9	Bromomethane	0.80	U	2.0	0.80	0.21
75-15-0	Carbon disulfide	0.80	U	2.0	0.80	0.17
56-23-5	Carbon tetrachloride	0.40	U	2.0	0.40	0.19
108-90-7	Chlorobenzene	0.40	U	1.0	0.40	0.17
75-00-3	Chloroethane	1.6	U	2.0	1.6	0.41
67-66-3	Chloroform	0.40	U	1.0	0.40	0.16
74-87-3	Chloromethane	0.80	U	2.0	0.80	0.30
156-59-2	cis-1,2-Dichloroethene	0.40	U	1.0	0.40	0.15
10061-01-5	cis-1,3-Dichloropropene	0.40	U	1.0	0.40	0.16
110-82-7	Cyclohexane	0.80	U	2.0	0.80	0.28
124-48-1	Dibromochloromethane	0.40	U	1.0	0.40	0.17
75-71-8	Dichlorodifluoromethane	0.80	U	2.0	0.80	0.31
100-41-4	Ethylbenzene	0.40	U	1.0	0.40	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-499912/10

Matrix: Water Lab File ID: P2668.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/24/2020 10:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 499912 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-93-4	Ethylene Dibromide	0.40	U	1.0	0.40	0.18
98-82-8	Isopropylbenzene	0.40	U	1.0	0.40	0.19
79-20-9	Methyl acetate	4.0	U	5.0	4.0	1.6
1634-04-4	Methyl tert-butyl ether	0.80	U	5.0	0.80	0.25
108-87-2	Methylcyclohexane	0.40	U	2.0	0.40	0.10
75-09-2	Methylene Chloride	2.0	U	5.0	2.0	0.94
100-42-5	Styrene	0.80	U	1.0	0.80	0.36
127-18-4	Tetrachloroethene	0.40	U	1.0	0.40	0.20
108-88-3	Toluene	0.40	U	1.0	0.40	0.17
156-60-5	trans-1,2-Dichloroethene	0.40	U	1.0	0.40	0.15
10061-02-6	trans-1,3-Dichloropropene	0.40	U	1.0	0.40	0.19
79-01-6	Trichloroethene	0.40	U	1.0	0.40	0.16
75-69-4	Trichlorofluoromethane	0.80	U	2.0	0.80	0.29
75-01-4	Vinyl chloride	0.20	U	1.5	0.20	0.10
1330-20-7	Xylenes, Total	0.80	U	1.0	0.80	0.19

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		81-118
460-00-4	4-Bromofluorobenzene (Surr)	100		85-114
1868-53-7	Dibromofluoromethane (Surr)	100		80-119
2037-26-5	Toluene-d8 (Surr)	98		89-112

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2668.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 24-Jun-2020 10:00:30 ALS Bottle#: 5 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Operator ID: SEIFERTJ Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 25-Jun-2020 10:00:58 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1058

First Level Reviewer: seifertj Date: 25-Jun-2020 09:52:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.112	5.113	-0.001	99	2162722	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.644	7.646	-0.002	87	515948	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.871	9.873	-0.002	97	743412	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.605	4.606	-0.001	92	522768	50.0	50.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.869	4.870	-0.001	96	590979	50.0	48.2	
$ 6 Toluene-d8 (Surr)	98	6.367	6.369	-0.002	93	2226275	50.0	49.0	
$ 7 4-Bromofluorobenzene (Surr)	95	8.742	8.743	-0.001	82	822360	50.0	50.1	
$ 8 Trifluorotoluene (Surr)	1		0.000					ND	
$ 9 BFB	95		3.577					ND	
10 Dichlorodifluoromethane	85		1.662					ND	
11 Chloromethane	50		1.842					ND	
12 Vinyl chloride	62		1.937					ND	
13 Ethylene oxide	43		2.201					ND	
14 Bromomethane	94		2.232					ND	
15 Chloroethane	64		2.327					ND	
16 Dichlorofluoromethane	67		2.496					ND	
17 Trichlorofluoromethane	101		2.528					ND	
18 Ethanol	45		2.644					ND	
19 Ethyl ether	59		2.749					ND	
20 Propene oxide	58		2.792					ND	
21 Acrolein	56		2.855					ND	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.939					ND	
22 1,1-Dichloroethene	96		2.939					ND	
24 Acetone	43	2.959	2.960	-0.001	97	4069		0.2033	
25 Isopropyl alcohol	45		3.045					ND	
26 Iodomethane	142		3.066					ND	
27 Carbon disulfide	76		3.129					ND	
28 Acetonitrile	41		3.171					ND	
29 Methyl acetate	43		3.192					ND	
30 3-Chloro-1-propene	41		3.213					ND	
31 Methylene Chloride	84		3.308					ND	
32 2-Methyl-2-propanol	59		3.351					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Acrylonitrile	53		3.467					ND	
34 Methyl tert-butyl ether	73		3.498					ND	
35 trans-1,2-Dichloroethene	96		3.509					ND	
36 Hexane	57		3.709					ND	
38 Vinyl acetate	43		3.804					ND	
37 Chlorotrifluoroethene	116		3.818					ND	
40 Isopropyl ether	87		3.826					ND	
39 1,1-Dichloroethane	63		3.836					ND	
41 2-Chloro-1,3-butadiene	53		3.889					ND	
42 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.027					ND	
43 Tert-butyl ethyl ether	59		4.090					ND	
44 2-Butanone (MEK)	43		4.216					ND	
46 Ethyl acetate	43		4.227					ND	
47 cis-1,2-Dichloroethene	96		4.248					ND	
48 2,2-Dichloropropane	77		4.258					ND	
49 Propionitrile	54		4.269					ND	
45 2-Chloro-1,1,1-Trifluoroethane	118		4.307					ND	
50 sec-Butyl Alcohol	45		4.322					ND	
51 Methacrylonitrile	41		4.385					ND	
53 Chlorobromomethane	128		4.427					ND	
52 Tetrahydrofuran	42		4.427					ND	
54 Chloroform	83		4.480					ND	
55 1,1,1-Trichloroethane	97		4.628					ND	
56 Cyclohexane	56		4.691					ND	
57 1,1-Dichloropropene	75		4.744					ND	
59 Carbon tetrachloride	117		4.744					ND	
58 Isobutyl alcohol	41		4.744					ND	
60 Benzene	78		4.891					ND	
61 1,2-Dichloroethane	62		4.923					ND	
62 Tert-amyl methyl ether	73		4.965					ND	
63 n-Butanol	56		4.965					ND	
66 n-Heptane	43		5.081					ND	
64 1,2-Dichloro-1,1,2-trifluoroetha	117		5.089					ND	
65 1,1,1-Trifluoro-2,2-dichloroetha	83		5.131					ND	
67 Trichloroethene	95		5.387					ND	
68 2-Pentanone	43		5.482					ND	
69 Methylcyclohexane	55		5.577					ND	
70 1,2-Dichloropropane	63		5.588					ND	
71 Methyl methacrylate	100		5.599					ND	
72 1,4-Dioxane	88		5.630					ND	
73 Dibromomethane	93		5.662					ND	
74 Dichlorobromomethane	83		5.788					ND	
75 2-Nitropropane	41		5.947					ND	
76 2-Chloroethyl vinyl ether	63		5.989					ND	
77 cis-1,3-Dichloropropene	75		6.137					ND	
78 4-Methyl-2-pentanone (MIBK)	43		6.242					ND	
79 Toluene	91		6.432					ND	
80 trans-1,3-Dichloropropene	75		6.601					ND	
81 Ethyl methacrylate	69		6.622					ND	
82 1,1,2-Trichloroethane	97		6.780					ND	
83 Tetrachloroethene	164		6.875					ND	
84 1,3-Dichloropropane	76		6.928					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 2-Hexanone	43		6.939					ND	
86 Chlorodibromomethane	129		7.118					ND	
87 Tetrahydrothiophene	60		7.118					ND	
88 Ethylene Dibromide	107		7.245					ND	
89 1-Chlorohexane	91		7.635					ND	
90 Chlorobenzene	112		7.677					ND	
92 Ethylbenzene	106		7.751					ND	
91 1,1,1,2-Tetrachloroethane	131		7.751					ND	
93 m-Xylene & p-Xylene	106		7.867					ND	
94 o-Xylene	106		8.226					ND	
95 Styrene	104		8.247					ND	
96 Bromoform	173		8.427					ND	
97 Isopropylbenzene	105		8.574					ND	
98 cis-1,4-Dichloro-2-butene	53		8.617					ND	
99 Cyclohexanone	55		8.659					ND	U
100 1,1,2,2-Tetrachloroethane	83		8.859					ND	
101 Bromobenzene	156		8.891					ND	
102 trans-1,4-Dichloro-2-butene	53		8.891					ND	
103 1,2,3-Trichloropropane	110		8.923					ND	
104 N-Propylbenzene	120		8.965					ND	
105 2-Chlorotoluene	126		9.070					ND	
106 1,3,5-Trimethylbenzene	105		9.144					ND	
107 4-Chlorotoluene	126		9.186					ND	
108 tert-Butylbenzene	119		9.450					ND	
109 1,2,4-Trimethylbenzene	105		9.513					ND	
110 sec-Butylbenzene	134		9.672					ND	
111 1,3-Dichlorobenzene	146		9.798					ND	
112 4-Isopropyltoluene	119		9.820					ND	
113 1,4-Dichlorobenzene	146		9.893					ND	
114 1,2,3-Trimethylbenzene	105		9.915					ND	
115 n-Butylbenzene	91		10.221					ND	
116 1,2-Dichlorobenzene	146		10.252					ND	
117 1,2-Dibromo-3-Chloropropane	157		11.033					ND	
118 1,3,5-Trichlorobenzene	180		11.223					ND	
119 1,2,4-Trichlorobenzene	180		11.856					ND	
120 Hexachlorobutadiene	225		12.004					ND	
121 Naphthalene	128		12.131					ND	
122 1,2,3-Trichlorobenzene	180		12.352					ND	
136 1-Chlorohexane TIC	1		0.000					ND	
131 Propene oxide TIC	58		0.000					ND	
126 3-Ethylpentane	1		0.000					ND	
130 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
128 2,4-Dimethylpentane	1		0.000					ND	
125 2,2,3-Trimethylbutane	1		0.000					ND	
129 n-Nonyl Aldehyde	1		0.000					ND	
135 3-Methylhexane	1		0.000					ND	
137 Cyclohexane TIC	1		0.000					ND	
127 Pentachloroethane	167		0.000					ND	
138 Dimethyl disulfide	1		0.000					ND	
133 Methyl cyclohexane TIC	1		0.000					ND	
134 2,2-Dimethylpentane	1		0.000					ND	
123 3,3-Dimethylpentane	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
124 2,3-Dimethylpentane	1		0.000				ND		
132 2-Methylhexane	1		0.000				ND		
S 139 1,2-Dichloroethene, Total (URS)	96		2.000				ND		
S 142 Xylenes, Total	106		0.000				ND		
S 141 TAH	1				0			0	7
S 140 Trihalomethanes, Total	1		0.000				ND		
S 143 Xylenes, Total (URS)	1		0.000				ND		
S 146 Total BTEX	1		0.000				ND		
S 145 1,3-Dichloropropene, Total	1		0.000				ND		
S 144 1,2-Dichloroethene, Total	1		0.000				ND		

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00006 Amount Added: 5.00 Units: uL Run Reagent

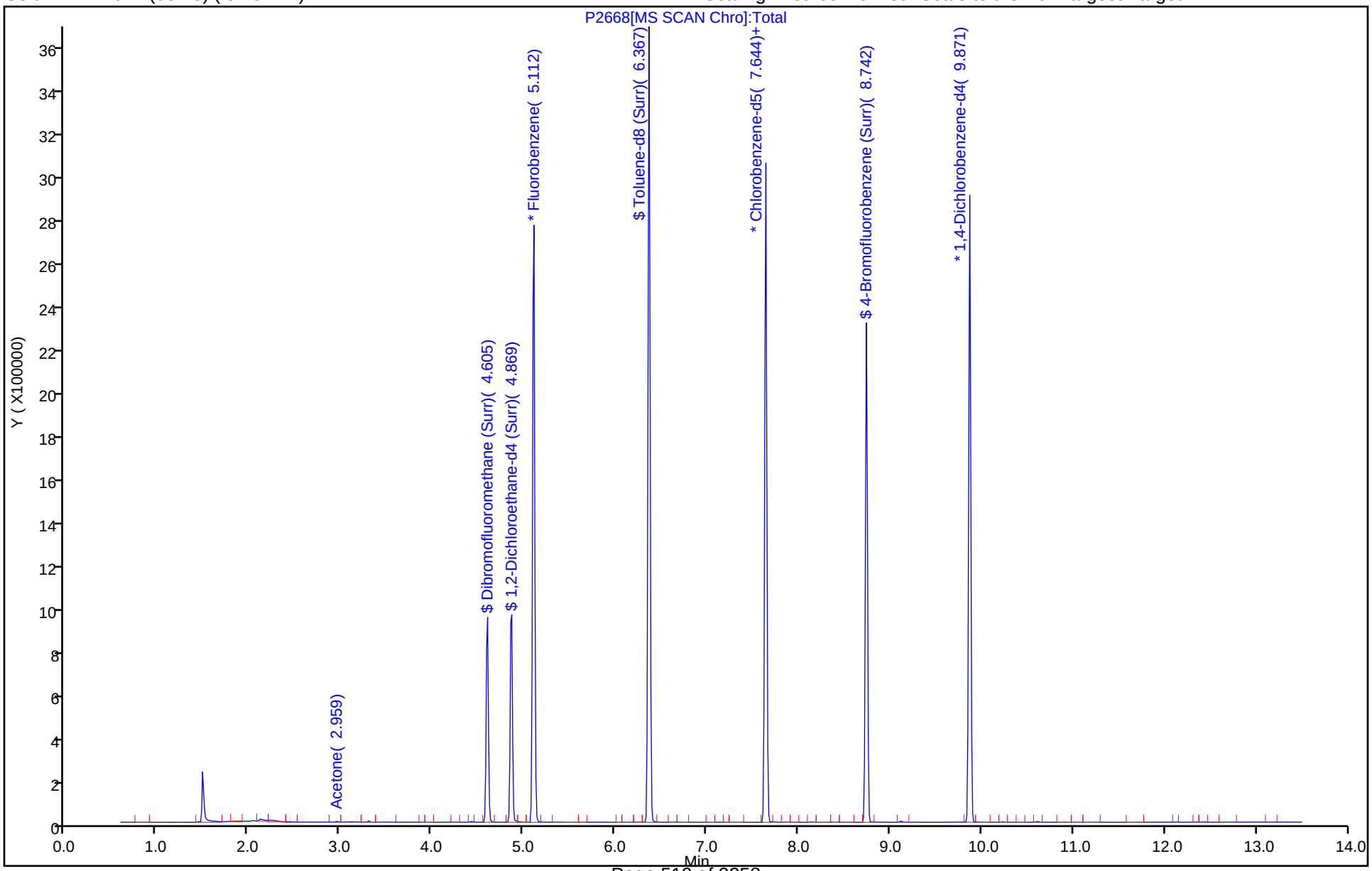
Report Date: 25-Jun-2020 10:01:06 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2668.D

Injection Date:	24-Jun-2020 10:00:30	Instrument ID:	VMS_P	Operator ID:	SEIFERTJ
Lims ID:	MB			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2668.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 24-Jun-2020 10:00:30 ALS Bottle#: 5 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Operator ID: SEIFERTJ Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 25-Jun-2020 10:00:58 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1058

First Level Reviewer: seifertj Date: 25-Jun-2020 09:52:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	50.2	100.38
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	48.2	96.44
$ 6 Toluene-d8 (Surr)	50.0	49.0	98.07
$ 7 4-Bromofluorobenzene (Surr)	50.0	50.1	100.24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-499912/5

Matrix: Water Lab File ID: P2666.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/24/2020 09:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 499912 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	24.1		1.0	0.40	0.16
79-34-5	1,1,2,2-Tetrachloroethane	26.0		1.0	0.80	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	17.4	Q	3.0	0.40	0.18
79-00-5	1,1,2-Trichloroethane	26.6		1.0	0.80	0.27
75-34-3	1,1-Dichloroethane	25.4		1.0	0.80	0.22
75-35-4	1,1-Dichloroethene	20.5		1.0	0.80	0.23
87-61-6	1,2,3-Trichlorobenzene	24.2		1.0	0.80	0.21
120-82-1	1,2,4-Trichlorobenzene	23.6		1.0	0.80	0.21
96-12-8	1,2-Dibromo-3-Chloropropane	27.4		5.0	1.6	0.47
95-50-1	1,2-Dichlorobenzene	23.7		1.0	0.40	0.15
107-06-2	1,2-Dichloroethane	25.9		1.0	0.40	0.13
78-87-5	1,2-Dichloropropane	27.7		1.0	0.40	0.18
541-73-1	1,3-Dichlorobenzene	25.0		1.0	0.40	0.13
106-46-7	1,4-Dichlorobenzene	24.5		1.0	0.40	0.16
78-93-3	2-Butanone (MEK)	118		6.0	4.0	2.0
591-78-6	2-Hexanone	117		5.0	4.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	121		5.0	3.2	0.98
67-64-1	Acetone	114		10	6.4	1.9
71-43-2	Benzene	25.4		1.0	0.40	0.16
74-97-5	Bromochloromethane	24.5		1.0	0.20	0.10
75-27-4	Bromodichloromethane	26.3		1.0	0.40	0.17
75-25-2	Bromoform	25.3		1.0	1.0	0.46
74-83-9	Bromomethane	20.9		2.0	0.80	0.21
75-15-0	Carbon disulfide	18.4		2.0	0.80	0.17
56-23-5	Carbon tetrachloride	24.2		2.0	0.40	0.19
108-90-7	Chlorobenzene	24.5		1.0	0.40	0.17
75-00-3	Chloroethane	21.6		2.0	1.6	0.41
67-66-3	Chloroform	25.2		1.0	0.40	0.16
74-87-3	Chloromethane	21.0		2.0	0.80	0.30
156-59-2	cis-1,2-Dichloroethene	25.7		1.0	0.40	0.15
10061-01-5	cis-1,3-Dichloropropene	26.3		1.0	0.40	0.16
110-82-7	Cyclohexane	21.5		2.0	0.80	0.28
124-48-1	Dibromochloromethane	25.4		1.0	0.40	0.17
75-71-8	Dichlorodifluoromethane	16.9		2.0	0.80	0.31
100-41-4	Ethylbenzene	24.8		1.0	0.40	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-499912/5

Matrix: Water Lab File ID: P2666.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/24/2020 09:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 499912 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-93-4	Ethylene Dibromide	24.4		1.0	0.40	0.18
98-82-8	Isopropylbenzene	25.3		1.0	0.40	0.19
79-20-9	Methyl acetate	57.4		5.0	4.0	1.6
1634-04-4	Methyl tert-butyl ether	26.3		5.0	0.80	0.25
108-87-2	Methylcyclohexane	22.7		2.0	0.40	0.10
75-09-2	Methylene Chloride	26.0		5.0	2.0	0.94
100-42-5	Styrene	25.9		1.0	0.80	0.36
127-18-4	Tetrachloroethene	24.0		1.0	0.40	0.20
108-88-3	Toluene	25.8		1.0	0.40	0.17
156-60-5	trans-1,2-Dichloroethene	23.1		1.0	0.40	0.15
10061-02-6	trans-1,3-Dichloropropene	25.4		1.0	0.40	0.19
79-01-6	Trichloroethene	24.3		1.0	0.40	0.16
75-69-4	Trichlorofluoromethane	17.6		2.0	0.80	0.29
75-01-4	Vinyl chloride	20.5		1.5	0.20	0.10
1330-20-7	Xylenes, Total	50.7		1.0	0.80	0.19

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		81-118
460-00-4	4-Bromofluorobenzene (Surr)	100		85-114
1868-53-7	Dibromofluoromethane (Surr)	99		80-119
2037-26-5	Toluene-d8 (Surr)	98		89-112

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2666.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 24-Jun-2020 09:18:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Operator ID: SEIFERTJ Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 25-Jun-2020 10:00:58 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1058

First Level Reviewer: seifertj Date: 24-Jun-2020 10:18:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.109	5.113	-0.004	98	2131847	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.642	7.646	-0.004	87	505113	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.869	9.873	-0.004	96	734405	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.603	4.606	-0.003	95	505871	50.0	49.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.867	4.870	-0.003	95	571922	50.0	47.3	
$ 6 Toluene-d8 (Surr)	98	6.365	6.369	-0.004	93	2172177	50.0	48.9	
$ 7 4-Bromofluorobenzene (Surr)	95	8.740	8.743	-0.003	83	809676	50.0	49.9	
10 Dichlorodifluoromethane	85	1.669	1.662	0.007	99	100944	25.0	16.9	
11 Chloromethane	50	1.838	1.842	-0.004	99	172008	25.0	21.0	
12 Vinyl chloride	62	1.944	1.937	0.007	98	191064	25.0	20.5	
14 Bromomethane	94	2.218	2.232	-0.014	90	77994	25.0	20.9	
15 Chloroethane	64	2.324	2.327	-0.003	100	128365	25.0	21.6	
16 Dichlorofluoromethane	67	2.492	2.496	-0.004	97	313351	25.0	22.6	
17 Trichlorofluoromethane	101	2.535	2.528	0.007	99	202696	25.0	17.6	
19 Ethyl ether	59	2.746	2.749	-0.003	91	191163	25.0	26.3	
21 Acrolein	56	2.851	2.855	-0.004	100	299943	246.9	167.3	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.936	2.939	-0.003	66	90146	25.0	17.4	
22 1,1-Dichloroethene	96	2.936	2.939	-0.003	97	141367	25.0	20.5	
24 Acetone	43	2.957	2.960	-0.003	100	323834	100.0	114.1	
26 Iodomethane	142	3.062	3.066	-0.004	99	92279	25.0	14.4	
27 Carbon disulfide	76	3.126	3.129	-0.003	99	397681	25.0	18.4	
29 Methyl acetate	43	3.189	3.192	-0.003	98	415745	50.0	57.4	
30 3-Chloro-1-propene	41	3.210	3.213	-0.003	94	302507	25.0	25.6	
31 Methylene Chloride	84	3.305	3.308	-0.003	94	209262	25.0	26.0	
32 2-Methyl-2-propanol	59	3.347	3.351	-0.004	97	273514	250.0	292.7	
33 Acrylonitrile	53	3.474	3.467	0.007	99	1128339	250.0	287.6	
34 Methyl tert-butyl ether	73	3.495	3.498	-0.003	96	612105	25.0	26.3	
35 trans-1,2-Dichloroethene	96	3.516	3.509	0.007	97	188018	25.0	23.1	
36 Hexane	57	3.706	3.709	-0.003	91	178706	25.0	15.2	
38 Vinyl acetate	43	3.811	3.804	0.007	97	1048029	50.0	59.7	
39 1,1-Dichloroethane	63	3.833	3.836	-0.003	96	379294	25.0	25.4	
44 2-Butanone (MEK)	43	4.212	4.216	-0.004	100	560093	100.0	117.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
47 cis-1,2-Dichloroethene	96	4.244	4.248	-0.004	83	232882	25.0	25.7	
48 2,2-Dichloropropane	77	4.255	4.258	-0.003	91	256919	25.0	25.5	
50 sec-Butyl Alcohol	45	4.329	4.322	0.007	99	730328	750.0	955.7	
53 Chlorobromomethane	128	4.424	4.427	-0.003	97	99328	25.0	24.5	
52 Tetrahydrofuran	42	4.434	4.427	0.007	89	188544	50.0	59.8	
54 Chloroform	83	4.487	4.480	0.007	93	360821	25.0	25.2	
55 1,1,1-Trichloroethane	97	4.624	4.628	-0.004	98	273246	25.0	24.1	
56 Cyclohexane	56	4.687	4.691	-0.004	90	310237	25.0	21.5	
57 1,1-Dichloropropene	75	4.740	4.744	-0.004	97	283886	25.0	23.9	
59 Carbon tetrachloride	117	4.751	4.744	0.007	74	224510	25.0	24.2	
58 Isobutyl alcohol	41	4.751	4.744	0.007	94	258005	625.0	782.4	
60 Benzene	78	4.898	4.891	0.007	94	892141	25.0	25.4	
61 1,2-Dichloroethane	62	4.919	4.923	-0.004	97	287163	25.0	25.9	
66 n-Heptane	43	5.078	5.081	-0.003	92	220469	25.0	21.1	
67 Trichloroethene	95	5.384	5.387	-0.003	98	209242	25.0	24.3	
68 2-Pentanone	43	5.489	5.482	0.007	99	894507	100.0	126.7	
69 Methylcyclohexane	55	5.584	5.577	0.007	92	248307	25.0	22.7	
70 1,2-Dichloropropane	63	5.595	5.588	0.007	98	251406	25.0	27.7	
72 1,4-Dioxane	88	5.637	5.630	0.007	93	73543	500.0	583.0	
73 Dibromomethane	93	5.669	5.662	0.007	93	136094	25.0	26.2	
74 Dichlorobromomethane	83	5.785	5.788	-0.003	99	276562	25.0	26.3	
76 2-Chloroethyl vinyl ether	63	5.985	5.989	-0.004	91	175407	25.0	28.0	
77 cis-1,3-Dichloropropene	75	6.133	6.137	-0.004	96	356294	25.0	26.3	
78 4-Methyl-2-pentanone (MIBK)	43	6.239	6.242	-0.003	96	1100689	100.0	121.4	
79 Toluene	91	6.429	6.432	-0.003	98	949106	25.0	25.8	
80 trans-1,3-Dichloropropene	75	6.597	6.601	-0.004	96	292607	25.0	25.4	
81 Ethyl methacrylate	69	6.618	6.622	-0.004	89	332576	25.0	26.8	
82 1,1,2-Trichloroethane	97	6.777	6.780	-0.003	91	197417	25.0	26.6	
83 Tetrachloroethene	164	6.872	6.875	-0.003	92	147656	25.0	24.0	
84 1,3-Dichloropropane	76	6.925	6.928	-0.003	98	374162	25.0	25.3	
85 2-Hexanone	43	6.935	6.939	-0.004	96	793146	100.0	116.8	
86 Chlorodibromomethane	129	7.125	7.118	0.007	91	192842	25.0	25.4	
88 Ethylene Dibromide	107	7.241	7.245	-0.004	99	200221	25.0	24.4	
89 1-Chlorohexane	91	7.632	7.635	-0.003	97	296674	25.0	26.5	
90 Chlorobenzene	112	7.674	7.677	-0.003	94	584616	25.0	24.5	
92 Ethylbenzene	106	7.748	7.751	-0.003	99	325647	25.0	24.8	
91 1,1,1,2-Tetrachloroethane	131	7.748	7.751	-0.003	85	182820	25.0	24.8	
93 m-Xylene & p-Xylene	106	7.864	7.867	-0.003	99	398757	25.0	25.3	
94 o-Xylene	106	8.223	8.226	-0.003	98	384524	25.0	25.4	
95 Styrene	104	8.244	8.247	-0.003	95	661498	25.0	25.9	
96 Bromoform	173	8.423	8.427	-0.004	95	113589	25.0	25.3	
97 Isopropylbenzene	105	8.571	8.574	-0.003	96	972803	25.0	25.3	
99 Cyclohexanone	55	8.666	8.659	0.007	91	696951	1000.0	1347.5	
100 1,1,2,2-Tetrachloroethane	83	8.856	8.859	-0.003	93	292868	25.0	26.0	
101 Bromobenzene	156	8.887	8.891	-0.004	96	220065	25.0	24.3	
102 trans-1,4-Dichloro-2-butene	53	8.887	8.891	-0.004	84	76194	25.0	25.5	
103 1,2,3-Trichloropropane	110	8.919	8.923	-0.004	82	84850	25.0	24.8	
104 N-Propylbenzene	120	8.972	8.965	0.007	99	265032	25.0	24.9	
105 2-Chlorotoluene	126	9.067	9.070	-0.003	96	222720	25.0	24.7	
106 1,3,5-Trimethylbenzene	105	9.141	9.144	-0.003	93	796883	25.0	25.3	
107 4-Chlorotoluene	126	9.183	9.186	-0.003	97	233343	25.0	24.7	
108 tert-Butylbenzene	119	9.447	9.450	-0.003	94	646805	25.0	24.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 1,2,4-Trimethylbenzene	105	9.510	9.513	-0.003	97	809304	25.0	25.4	
110 sec-Butylbenzene	134	9.668	9.672	-0.004	94	188657	25.0	24.4	
111 1,3-Dichlorobenzene	146	9.795	9.798	-0.003	97	410773	25.0	25.0	
112 4-Isopropyltoluene	119	9.816	9.820	-0.004	97	808321	25.0	25.0	
113 1,4-Dichlorobenzene	146	9.900	9.893	0.007	95	417110	25.0	24.5	
115 n-Butylbenzene	91	10.217	10.221	-0.004	98	747147	25.0	24.8	
116 1,2-Dichlorobenzene	146	10.249	10.252	-0.003	96	386567	25.0	23.7	
117 1,2-Dibromo-3-Chloropropane	157	11.030	11.033	-0.003	82	52308	25.0	27.4	
119 1,2,4-Trichlorobenzene	180	11.853	11.856	-0.003	93	209014	25.0	23.6	
120 Hexachlorobutadiene	225	12.000	12.004	-0.004	96	70606	25.0	21.9	
121 Naphthalene	128	12.127	12.131	-0.004	97	747138	25.0	26.1	
122 1,2,3-Trichlorobenzene	180	12.349	12.352	-0.003	95	197395	25.0	24.2	
S 139 1,2-Dichloroethene, Total (URS)	96				0		50.0	48.8	
S 142 Xylenes, Total	106				0		50.0	50.6	
S 140 Trihalomethanes, Total	1				0		100.0	102.1	
S 143 Xylenes, Total (URS)	1				0		50.0	50.6	
S 145 1,3-Dichloropropene, Total	1				0		50.0	51.7	
S 144 1,2-Dichloroethene, Total	1				0		50.0	48.8	

Reagents:

MV-Gas B_00063	Amount Added:	5.00	Units: uL	
MV-MegaMain B_00031	Amount Added:	12.50	Units: uL	
mv-IS_SS_00006	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 25-Jun-2020 10:01:01 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2666.D

Injection Date: 24-Jun-2020 09:18:30 Instrument ID: VMS_P Operator ID: SEIFERTJ

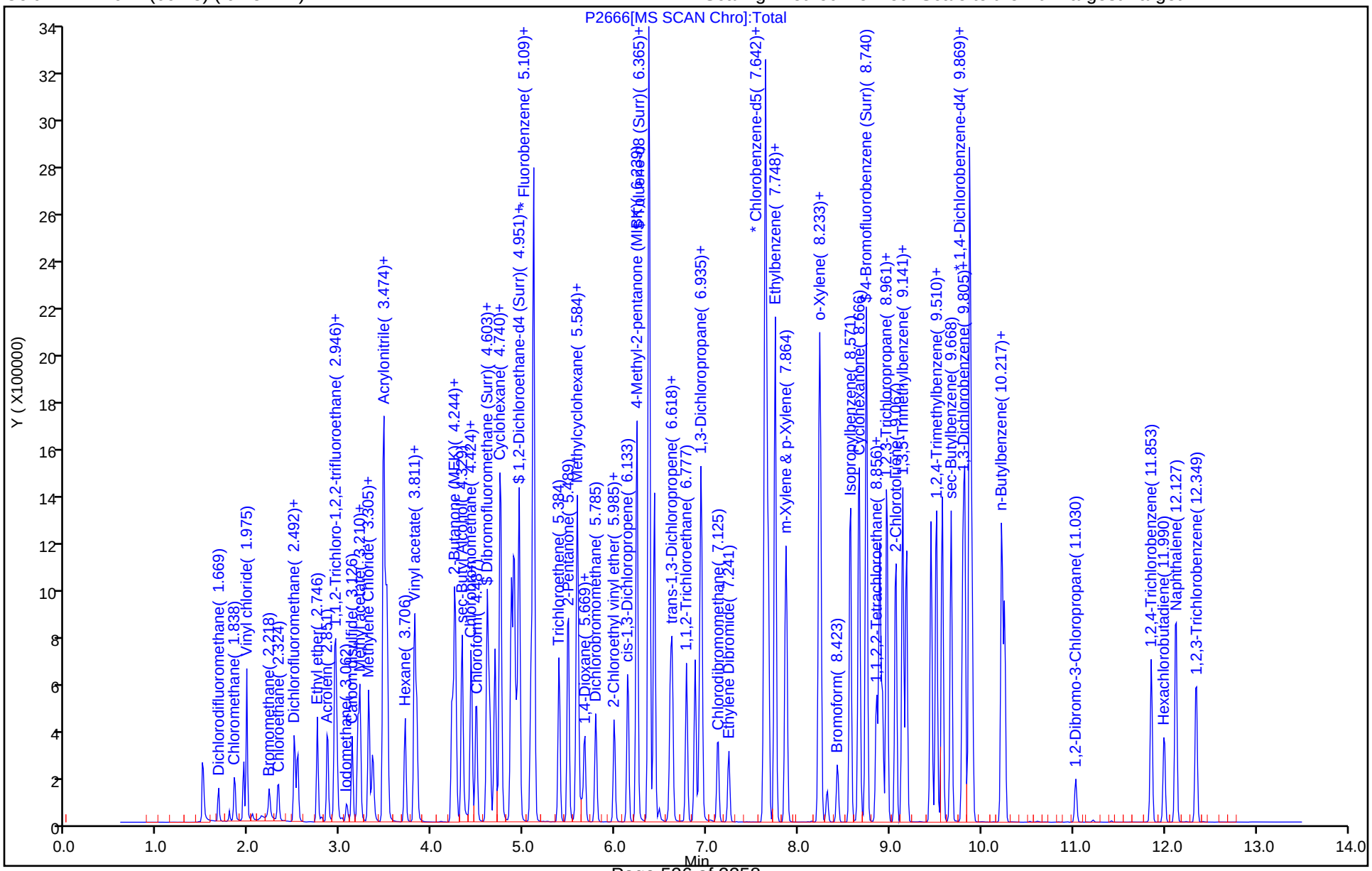
Lims ID: LCS Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: AQ_VMSP_8260 Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2666.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 24-Jun-2020 09:18:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Operator ID: SEIFERTJ Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 25-Jun-2020 10:00:58 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1058

First Level Reviewer: seifertj Date: 24-Jun-2020 10:18:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	49.3	98.54
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	47.3	94.68
$ 6 Toluene-d8 (Surr)	50.0	48.9	97.74
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.9	99.90

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 280-499912/6

Matrix: Water Lab File ID: P2669.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/24/2020 10:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 499912 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
71-55-6	1,1,1-Trichloroethane	23.9		1.0	0.40	0.16
79-34-5	1,1,2,2-Tetrachloroethane	25.2		1.0	0.80	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	17.4		3.0	0.40	0.18
79-00-5	1,1,2-Trichloroethane	26.8		1.0	0.80	0.27
75-34-3	1,1-Dichloroethane	25.4		1.0	0.80	0.22
75-35-4	1,1-Dichloroethene	20.1		1.0	0.80	0.23
87-61-6	1,2,3-Trichlorobenzene	23.8		1.0	0.80	0.21
120-82-1	1,2,4-Trichlorobenzene	23.2		1.0	0.80	0.21
96-12-8	1,2-Dibromo-3-Chloropropane	26.2		5.0	1.6	0.47
95-50-1	1,2-Dichlorobenzene	23.0		1.0	0.40	0.15
107-06-2	1,2-Dichloroethane	25.6		1.0	0.40	0.13
78-87-5	1,2-Dichloropropane	27.1		1.0	0.40	0.18
541-73-1	1,3-Dichlorobenzene	23.8		1.0	0.40	0.13
106-46-7	1,4-Dichlorobenzene	23.8		1.0	0.40	0.16
78-93-3	2-Butanone (MEK)	118		6.0	4.0	2.0
591-78-6	2-Hexanone	118		5.0	4.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	123		5.0	3.2	0.98
67-64-1	Acetone	113		10	6.4	1.9
71-43-2	Benzene	25.1		1.0	0.40	0.16
74-97-5	Bromochloromethane	24.5		1.0	0.20	0.10
75-27-4	Bromodichloromethane	26.3		1.0	0.40	0.17
75-25-2	Bromoform	24.7		1.0	1.0	0.46
74-83-9	Bromomethane	19.6		2.0	0.80	0.21
75-15-0	Carbon disulfide	18.2		2.0	0.80	0.17
56-23-5	Carbon tetrachloride	23.4		2.0	0.40	0.19
108-90-7	Chlorobenzene	24.1		1.0	0.40	0.17
75-00-3	Chloroethane	24.2		2.0	1.6	0.41
67-66-3	Chloroform	24.9		1.0	0.40	0.16
74-87-3	Chloromethane	21.9		2.0	0.80	0.30
156-59-2	cis-1,2-Dichloroethene	25.2		1.0	0.40	0.15
10061-01-5	cis-1,3-Dichloropropene	25.1		1.0	0.40	0.16
110-82-7	Cyclohexane	21.4		2.0	0.80	0.28
124-48-1	Dibromochloromethane	25.0		1.0	0.40	0.17
75-71-8	Dichlorodifluoromethane	20.0		2.0	0.80	0.31
100-41-4	Ethylbenzene	24.4		1.0	0.40	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 280-499912/6

Matrix: Water Lab File ID: P2669.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/24/2020 10:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 499912 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-93-4	Ethylene Dibromide	23.9		1.0	0.40	0.18
98-82-8	Isopropylbenzene	24.7		1.0	0.40	0.19
79-20-9	Methyl acetate	57.6		5.0	4.0	1.6
1634-04-4	Methyl tert-butyl ether	25.8		5.0	0.80	0.25
108-87-2	Methylcyclohexane	22.7		2.0	0.40	0.10
75-09-2	Methylene Chloride	25.6		5.0	2.0	0.94
100-42-5	Styrene	25.4		1.0	0.80	0.36
127-18-4	Tetrachloroethene	23.4		1.0	0.40	0.20
108-88-3	Toluene	25.9		1.0	0.40	0.17
156-60-5	trans-1,2-Dichloroethene	22.8		1.0	0.40	0.15
10061-02-6	trans-1,3-Dichloropropene	25.2		1.0	0.40	0.19
79-01-6	Trichloroethene	24.4		1.0	0.40	0.16
75-69-4	Trichlorofluoromethane	20.9		2.0	0.80	0.29
75-01-4	Vinyl chloride	22.7		1.5	0.20	0.10
1330-20-7	Xylenes, Total	49.4		1.0	0.80	0.19

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		81-118
460-00-4	4-Bromofluorobenzene (Surr)	99		85-114
1868-53-7	Dibromofluoromethane (Surr)	100		80-119
2037-26-5	Toluene-d8 (Surr)	97		89-112

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2669.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 24-Jun-2020 10:21:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Operator ID: SEIFERTJ Instrument ID: VMS_P

Method: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\AQ_VMSP_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 25-Jun-2020 10:00:58 Calib Date: 01-Jun-2020 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D

Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1058

First Level Reviewer: seifertj Date: 25-Jun-2020 09:52:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.109	5.113	-0.004	99	2161385	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.642	7.646	-0.004	87	517285	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.869	9.873	-0.004	96	761531	50.0	50.0	
$ 4 Dibromofluoromethane (Surr)	111	4.603	4.606	-0.003	93	520832	50.0	50.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.867	4.870	-0.003	95	589751	50.0	48.1	
$ 6 Toluene-d8 (Surr)	98	6.365	6.369	-0.004	93	2205518	50.0	48.5	
$ 7 4-Bromofluorobenzene (Surr)	95	8.740	8.743	-0.003	82	829047	50.0	49.3	
10 Dichlorodifluoromethane	85	1.669	1.662	0.007	99	121525	25.0	20.0	
11 Chloromethane	50	1.838	1.842	-0.004	99	181581	25.0	21.9	
12 Vinyl chloride	62	1.944	1.937	0.007	98	214637	25.0	22.7	
14 Bromomethane	94	2.228	2.232	-0.004	90	74475	25.0	19.6	
15 Chloroethane	64	2.323	2.327	-0.004	100	145886	25.0	24.2	
16 Dichlorofluoromethane	67	2.492	2.496	-0.004	97	340026	25.0	24.2	
17 Trichlorofluoromethane	101	2.534	2.528	0.006	97	244130	25.0	20.9	
19 Ethyl ether	59	2.746	2.749	-0.003	91	191493	25.0	26.0	
21 Acrolein	56	2.851	2.855	-0.004	100	299025	246.9	164.5	
23 1,1,2-Trichloro-1,2,2-trifluoroe	151	2.935	2.939	-0.004	65	91749	25.0	17.4	
22 1,1-Dichloroethene	96	2.946	2.939	0.007	96	140702	25.0	20.1	
24 Acetone	43	2.957	2.960	-0.003	100	325545	100.0	113.1	
26 Iodomethane	142	3.062	3.066	-0.004	99	86209	25.0	13.3	
27 Carbon disulfide	76	3.125	3.129	-0.004	99	399399	25.0	18.2	
29 Methyl acetate	43	3.189	3.192	-0.003	98	422875	50.0	57.6	
30 3-Chloro-1-propene	41	3.210	3.213	-0.003	94	299189	25.0	24.9	
31 Methylene Chloride	84	3.305	3.308	-0.003	94	209414	25.0	25.6	
32 2-Methyl-2-propanol	59	3.347	3.351	-0.004	97	280639	250.0	296.2	
33 Acrylonitrile	53	3.474	3.467	0.007	99	1151061	250.0	289.4	
34 Methyl tert-butyl ether	73	3.495	3.498	-0.003	96	609008	25.0	25.8	
35 trans-1,2-Dichloroethene	96	3.516	3.509	0.007	97	188345	25.0	22.8	
36 Hexane	57	3.706	3.709	-0.003	91	177692	25.0	14.7	
38 Vinyl acetate	43	3.811	3.804	0.007	98	1024727	50.0	57.6	
39 1,1-Dichloroethane	63	3.832	3.836	-0.004	96	383605	25.0	25.4	
44 2-Butanone (MEK)	43	4.212	4.216	-0.004	100	568856	100.0	118.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
47 cis-1,2-Dichloroethene	96	4.244	4.248	-0.004	83	231317	25.0	25.2	
48 2,2-Dichloropropane	77	4.255	4.258	-0.003	92	250084	25.0	24.4	
50 sec-Butyl Alcohol	45	4.328	4.322	0.006	99	765919	750.0	988.6	
53 Chlorobromomethane	128	4.423	4.427	-0.004	97	100798	25.0	24.5	
52 Tetrahydrofuran	42	4.434	4.427	0.007	89	196192	50.0	61.4	
54 Chloroform	83	4.487	4.480	0.007	93	361803	25.0	24.9	
55 1,1,1-Trichloroethane	97	4.624	4.628	-0.004	98	274668	25.0	23.9	
56 Cyclohexane	56	4.687	4.691	-0.004	90	313742	25.0	21.4	
57 1,1-Dichloropropene	75	4.740	4.744	-0.004	96	288383	25.0	24.0	
59 Carbon tetrachloride	117	4.751	4.744	0.007	73	220012	25.0	23.4	
58 Isobutyl alcohol	41	4.751	4.744	0.007	94	268558	625.0	803.3	
60 Benzene	78	4.898	4.891	0.007	94	892953	25.0	25.1	
61 1,2-Dichloroethane	62	4.919	4.923	-0.004	97	287406	25.0	25.6	
66 n-Heptane	43	5.078	5.081	-0.003	94	223471	25.0	21.0	
67 Trichloroethene	95	5.384	5.387	-0.003	98	213230	25.0	24.4	
68 2-Pentanone	43	5.489	5.482	0.007	99	917261	100.0	128.1	
69 Methylcyclohexane	55	5.584	5.577	0.007	92	252091	25.0	22.7	
70 1,2-Dichloropropane	63	5.595	5.588	0.007	98	248671	25.0	27.1	
72 1,4-Dioxane	88	5.637	5.630	0.007	94	74631	500.0	583.5	
73 Dibromomethane	93	5.658	5.662	-0.004	92	137624	25.0	26.1	
74 Dichlorobromomethane	83	5.785	5.788	-0.003	99	280960	25.0	26.3	
76 2-Chloroethyl vinyl ether	63	5.985	5.989	-0.004	90	180916	25.0	28.5	
77 cis-1,3-Dichloropropene	75	6.133	6.137	-0.004	96	347982	25.0	25.1	
78 4-Methyl-2-pentanone (MIBK)	43	6.238	6.242	-0.004	96	1132299	100.0	123.2	
79 Toluene	91	6.428	6.432	-0.004	98	964543	25.0	25.9	
80 trans-1,3-Dichloropropene	75	6.597	6.601	-0.004	96	293850	25.0	25.2	
81 Ethyl methacrylate	69	6.618	6.622	-0.004	90	335762	25.0	26.4	
82 1,1,2-Trichloroethane	97	6.777	6.780	-0.003	91	201952	25.0	26.8	
83 Tetrachloroethene	164	6.872	6.875	-0.003	93	147700	25.0	23.4	
84 1,3-Dichloropropane	76	6.924	6.928	-0.004	98	376590	25.0	24.9	
85 2-Hexanone	43	6.935	6.939	-0.004	96	817272	100.0	117.5	
86 Chlorodibromomethane	129	7.114	7.118	-0.004	90	194561	25.0	25.0	
88 Ethylene Dibromide	107	7.241	7.245	-0.004	98	201207	25.0	23.9	
89 1-Chlorohexane	91	7.631	7.635	-0.004	98	297572	25.0	25.9	
90 Chlorobenzene	112	7.674	7.677	-0.003	94	588683	25.0	24.1	
92 Ethylbenzene	106	7.748	7.751	-0.003	99	327814	25.0	24.4	
91 1,1,1,2-Tetrachloroethane	131	7.748	7.751	-0.003	94	181649	25.0	24.1	
93 m-Xylene & p-Xylene	106	7.864	7.867	-0.003	99	398329	25.0	24.6	
94 o-Xylene	106	8.222	8.226	-0.004	97	384428	25.0	24.8	
95 Styrene	104	8.244	8.247	-0.003	95	663690	25.0	25.4	
96 Bromoform	173	8.423	8.427	-0.004	94	113520	25.0	24.7	
97 Isopropylbenzene	105	8.571	8.574	-0.003	96	984398	25.0	24.7	
99 Cyclohexanone	55	8.666	8.659	0.007	91	719236	1000.0	1357.9	
100 1,1,2,2-Tetrachloroethane	83	8.856	8.859	-0.003	94	294799	25.0	25.2	
101 Bromobenzene	156	8.887	8.891	-0.004	96	216900	25.0	23.1	
102 trans-1,4-Dichloro-2-butene	53	8.887	8.891	-0.004	84	73960	25.0	23.8	
103 1,2,3-Trichloropropane	110	8.919	8.923	-0.004	82	84997	25.0	24.0	
104 N-Propylbenzene	120	8.972	8.965	0.007	99	264401	25.0	23.9	
105 2-Chlorotoluene	126	9.067	9.070	-0.003	96	221509	25.0	23.7	
106 1,3,5-Trimethylbenzene	105	9.141	9.144	-0.004	95	794113	25.0	24.3	
107 4-Chlorotoluene	126	9.183	9.186	-0.003	98	230941	25.0	23.6	
108 tert-Butylbenzene	119	9.447	9.450	-0.003	94	645554	25.0	23.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 1,2,4-Trimethylbenzene	105	9.510	9.513	-0.003	97	811424	25.0	24.5	
110 sec-Butylbenzene	134	9.668	9.672	-0.004	94	188946	25.0	23.6	
111 1,3-Dichlorobenzene	146	9.795	9.798	-0.003	96	405127	25.0	23.8	
112 4-Isopropyltoluene	119	9.816	9.820	-0.004	97	807609	25.0	24.1	
113 1,4-Dichlorobenzene	146	9.900	9.893	0.007	95	419303	25.0	23.8	
115 n-Butylbenzene	91	10.217	10.221	-0.004	98	756079	25.0	24.2	
116 1,2-Dichlorobenzene	146	10.249	10.252	-0.003	96	388451	25.0	23.0	
117 1,2-Dibromo-3-Chloropropane	157	11.029	11.033	-0.004	82	51936	25.0	26.2	
119 1,2,4-Trichlorobenzene	180	11.853	11.856	-0.003	94	213608	25.0	23.2	
120 Hexachlorobutadiene	225	12.000	12.004	-0.004	95	70577	25.0	21.1	
121 Naphthalene	128	12.127	12.131	-0.004	97	750221	25.0	25.2	
122 1,2,3-Trichlorobenzene	180	12.349	12.352	-0.003	95	201494	25.0	23.8	
S 139 1,2-Dichloroethene, Total (URS)	96				0		50.0	48.0	
S 142 Xylenes, Total	106				0		50.0	49.4	
S 140 Trihalomethanes, Total	1				0		100.0	100.9	
S 143 Xylenes, Total (URS)	1				0		50.0	49.4	
S 145 1,3-Dichloropropene, Total	1				0		50.0	50.2	
S 144 1,2-Dichloroethene, Total	1				0		50.0	48.0	

Reagents:

MV-Gas B_00063	Amount Added:	5.00	Units: uL	
MV-MegaMain B_00031	Amount Added:	12.50	Units: uL	
mv-IS_SS_00006	Amount Added:	5.00	Units: uL	Run Reagent

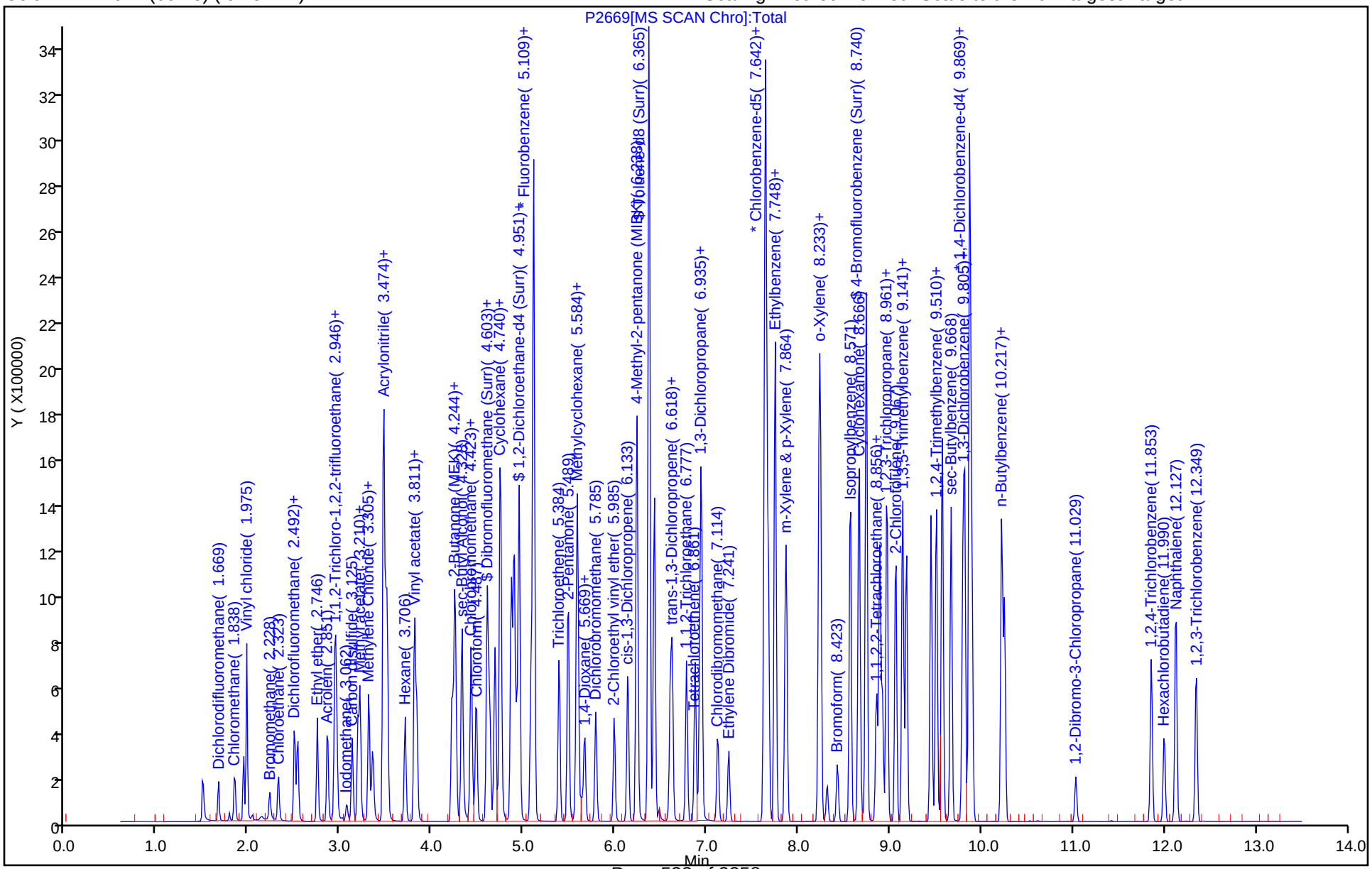
Report Date: 25-Jun-2020 10:01:05 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2669.D

Injection Date:	24-Jun-2020 10:21:30	Instrument ID:	VMS_P	Operator ID:	SEIFERTJ
Lims ID:	LCSD			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	AQ_VMSP_8260	Limit Group:	MSV - 8260B Water and Solid		

Column: DB-624 (60.25) (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\P2669.D				
Lims ID:	LCSD				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	24-Jun-2020 10:21:30	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	LCSD				
Operator ID:	SEIFERTJ	Instrument ID:	VMS_P		
Method:	\\chromfs\Denver\ChromData\VMS_P\20200624-92699.b\AQ_VMSP_8260.m				
Limit Group:	MSV - 8260B Water and Solid				
Last Update:	25-Jun-2020 10:00:58	Calib Date:	01-Jun-2020 20:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VMS_P\20200601-92011.b\P1669.D				
Column 1 :	DB-624 (60.25) (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1058				

First Level Reviewer: seifertj Date: 25-Jun-2020 09:52:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	50.0	50.0	100.07
$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	48.1	96.30
$ 6 Toluene-d8 (Surr)	50.0	48.5	96.91
$ 7 4-Bromofluorobenzene (Surr)	50.0	49.3	98.65

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: VMS_P Start Date: 06/01/2020 16:26

Analysis Batch Number: 496958 End Date: 06/02/2020 03:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-496958/1		06/01/2020 16:26	1	P1658A.D	DB-624 (60.25) 0.25(mm)
STD005 280-496958/12 IC		06/01/2020 16:26	1	P1658.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		06/01/2020 16:26	1		DB-624 (60.25) 0.25(mm)
STD010 280-496958/13 IC		06/01/2020 16:47	1	P1659.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		06/01/2020 16:47	1		DB-624 (60.25) 0.25(mm)
STD020 280-496958/14 IC		06/01/2020 17:09	1	P1660.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		06/01/2020 17:09	1		DB-624 (60.25) 0.25(mm)
STD050 280-496958/15 IC		06/01/2020 17:30	1	P1661.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		06/01/2020 17:30	1		DB-624 (60.25) 0.25(mm)
STD10 280-496958/16 IC		06/01/2020 17:51	1	P1662.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		06/01/2020 17:51	1		DB-624 (60.25) 0.25(mm)
STD75 280-496958/18 IC		06/01/2020 18:33	1	P1664.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		06/01/2020 18:33	1		DB-624 (60.25) 0.25(mm)
STD100 280-496958/19 IC		06/01/2020 18:55	1	P1665.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		06/01/2020 18:55	1		DB-624 (60.25) 0.25(mm)
STD200 280-496958/20 IC		06/01/2020 19:16	1	P1666.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		06/01/2020 19:16	1		DB-624 (60.25) 0.25(mm)
ICIS 280-496958/17		06/01/2020 20:33	1	P1669.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		06/01/2020 20:33	1		DB-624 (60.25) 0.25(mm)
ICV 280-496958/21		06/01/2020 20:54	1	P1670.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		06/01/2020 20:54	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/01/2020 21:15	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/01/2020 22:56	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/01/2020 23:18	200		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/02/2020 00:00	5		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/02/2020 00:21	4		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/02/2020 00:43	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/02/2020 01:04	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/02/2020 01:25	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/02/2020 01:46	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/02/2020 02:08	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/02/2020 02:29	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/02/2020 02:50	1		DB-624 (60.25) 0.25(mm)
CCVC 280-496958/38		06/02/2020 03:11	1		DB-624 (60.25) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: VMS_P Start Date: 06/24/2020 08:05

Analysis Batch Number: 499912 End Date: 06/24/2020 17:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-499912/1		06/24/2020 08:05	1	P2663.D	DB-624 (60.25) 0.25(mm)
CCV 280-499912/2		06/24/2020 08:35	1	P2664.D	DB-624 (60.25) 0.25(mm)
CCV 280-499912/3		06/24/2020 08:56	1		DB-624 (60.25) 0.25(mm)
LCS 280-499912/5		06/24/2020 09:18	1	P2666.D	DB-624 (60.25) 0.25(mm)
MB 280-499912/10		06/24/2020 10:00	1	P2668.D	DB-624 (60.25) 0.25(mm)
LCSD 280-499912/6		06/24/2020 10:21	1	P2669.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		06/24/2020 10:43	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/24/2020 11:04	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/24/2020 11:25	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/24/2020 11:47	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/24/2020 12:08	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/24/2020 12:29	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/24/2020 12:50	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/24/2020 13:12	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/24/2020 13:33	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/24/2020 13:54	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/24/2020 14:16	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/24/2020 14:37	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/24/2020 14:58	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/24/2020 15:20	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/24/2020 15:42	10		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/24/2020 16:03	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/24/2020 16:25	100		DB-624 (60.25) 0.25(mm)
ZZZZZ		06/24/2020 16:46	1		DB-624 (60.25) 0.25(mm)
280-137736-1		06/24/2020 17:07	1	P2688.D	DB-624 (60.25) 0.25(mm)
280-137736-2		06/24/2020 17:29	1	P2689.D	DB-624 (60.25) 0.25(mm)
CCVC 280-499912/34		06/24/2020 17:50	1	P2690.D	DB-624 (60.25) 0.25(mm)

Sequence Name: C:\HPCHEM\1\SEQUENCE\062420.S
Comment:
Operator: SEIFERTJ
Data Path: C:\HPCHEM\1\DATA\062420\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Eurofins TestAmerica Denver
Instrument ID: P
SOP: DV-MS-0010 Rev. 26
Method: (524 / 624 / 8260B / 8260C)
Purge Volume (20mL / 5mL)
Matrix: (Water / Soil / Waste)
Tune Time: 0805-1750
TALs Batch: 444912

WL 92699 6/25/20

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	P2663	BFB	BFB 0805
2	Sample	1	P2664	8260	CCV
3	Sample	2	P2665	8260	CCV
4	Sample	3	P2666	8260	LCS
5	Sample	4	P2667	8260	RINSE
6	Sample	5	P2668	8260	MB
7	Sample	6	P2669	8260	LCSD
8	Sample	7	P2670	8260	280-137808-c-1 pH<2
9	Sample	8	P2671	8260	280-137808-a-2 pH<2
10	Sample	9	P2672	8260	280-137808-b-3 pH<2
11	Sample	10	P2673	8260	280-137808-b-4 pH<2
12	Sample	11	P2674	8260	280-137808-b-5 pH<2
13	Sample	12	P2675	8260	280-137808-a-6 pH<2
14	Sample	13	P2676	8260	280-137810-a-1 pH<2
15	Sample	14	P2677	8260	280-137810-a-2 pH<2
16	Sample	15	P2678	8260	280-137779-b-1 pH<2
17	Sample	16	P2679	8260	280-137779-f-2 pH<2
18	Sample	17	P2680	8260	280-137779-f-3 pH<2
19	Sample	18	P2681	8260	280-137779-g-4 pH<2
20	Sample	19	P2682	8260	280-137779-f-5 pH<2
21	Sample	20	P2683	8260	280-137779-e-6 pH<2
22	Sample	21	P2684	8260	280-137779-e-7 10X pH<2
23	Sample	22	P2685	8260	280-137808-a-7 pH<2
24	Sample	23	P2686	8260	280-136981-a-10 100X pH<2 RR 1X
25	Sample	24	P2687	8260	280-136981-a-15 pH<2
26	Sample	25	P2688	8260	280-137736-c-1 pH<2
27	Sample	26	P2689	8260	280-137736-b-2 pH<2
28	Sample	27	P2690	8260	CCVC 1750

PIL VOA RVP 06/24/20

Eurofins Environment Testing America
Worklist Report

Worklist Name: 062420 Worklist Number: 92699
Instrument Name: VMS_P Chrom Method: AQ_VMSP_8260
Purge Volume: 5.000 Units: mL
Analysis Type: VOA
Batch Directory: \\chromfs\Denver\ChromData\VMS_P\20200624-92699.b
Upload Directory: \\CorpTALSAPP16\280-DN-RawData\Organics\MS\VMS_P

Run Reagent: mv-IS_SS_00006 Amount Added: 5.000, Units: uL

Smp #	Lims ID	Smp Type	Dil Fact	Fract	Initial Vol/Wt	Vol/Wt Units	Sample Reagents	pH	Comment
1	# 1 BFB	BFB	1.000	voaWater	2.000	uL	mv-Cent BFB_00002		
2	# 2 CCV	CCV	1.000	voaWater	5.000	mL	MV-MegaMainA_00034 MV-Gas A_00059		
3	# 3 CCV	CCV	1.000	voaWater	5.000	mL	MV-Supp A_00044 mv-Cent IS_00006		
5	# 5 LCS	LCS	1.000	voaWater	5.000	mL	MV-Gas B_00063 MV-MegaMain B_00031		
6	# 6 LCSD	LCSD	1.000	voaWater	5.000	mL	MV-Gas B_00063 MV-MegaMain B_00031		
7	# 7 LCS	LCS	1.000	voaWater	5.000	mL	MV-Supp B_00027		
8	# 8 LCSD	LCSD	1.000	voaWater	5.000	mL	MV-Supp B_00027		
9	# 9 RINSE	Client	1.000	voaWater	5.000	mL			
10	#10 MB	MB	1.000	voaWater	5.000	mL			
11	#11 280-121232-A-1	Client	1.000	voaWater	5.000	mL			
12	#12 280-121232-A-2	Client	1.000	voaWater	5.000	mL			
13	#13 280-121232-A-3	Client	1.000	voaWater	5.000	mL			
14	#14 280-137808-C-1	Client	1.000	voaWater	5.000	mL			
15	#15 280-137808-A-2	Client	1.000	voaWater	5.000	mL			
16	#16 280-137808-B-3	Client	1.000	voaWater	5.000	mL			
17	#17 280-137808-B-4	Client	1.000	voaWater	5.000	mL			
18	#18 280-137808-B-5	Client	1.000	voaWater	5.000	mL			
19	#19 280-137808-A-6	Client	1.000	voaWater	5.000	mL			
20	#20 280-137810-A-1	Client	1.000	voaWater	5.000	mL			
21	#21 280-137810-A-2	Client	1.000	voaWater	5.000	mL			
22	#22 280-137779-B-1	Client	1.000	voaWater	5.000	mL			
23	#23 280-137779-F-2	Client	1.000	voaWater	5.000	mL			
24	#24 280-137779-F-3	Client	1.000	voaWater	5.000	mL			
25	#25 280-137779-G-4	Client	1.000	voaWater	5.000	mL			
26	#26 280-137779-F-5	Client	1.000	voaWater	5.000	mL			
27	#27 280-137779-E-6	Client	1.000	voaWater	5.000	mL			
28	#28 280-137779-E-7	Client	10.00	voaWater	5.000	mL			
29	#29 280-137808-A-7	Client	1.000	voaWater	5.000	mL			
30	#30 280-136981-A-10	Client	100.0	voaWater	5.000	mL			
31	#31 280-136981-A-15	Client	1.000	voaWater	5.000	mL			
32	#32 280-137736-C-1	Client	1.000	voaWater	5.000	mL			
33	#33 280-137736-B-2	Client	1.000	voaWater	5.000	mL			
34	#34 CCVC	CCVC	1.000	voaWater	5.000	mL	MV-Gas A_00059 MV-MegaMainA_00034		

Sample Request Form: 62723

den_msvoa_totalbacklog Gabe 6/24/2020 1:00:03 PM Assigned to:Seifert, Judy L

Sample	Client Sample ID	Container	Method	Analytical Method	Hold Time	Due	PM	State Code	Storage	Hazard Level
280-137736-1	WC-Q3-JUNE20	1x	8260B_DOD5	8260B_DOD5	06/30 23:59	07/03/20	PJM	NE	VS-5 & Marked as Disposed & 171	Unconfirmed
M Q5Rev3.1-12212015_Std Var App_60day disposal_DIL3										
280-137736-2	TB03-061620	1x	8260B_DOD5	8260B_DOD5	06/30 23:59	07/03/20	PJM	NE	VS-5	Unconfirmed
M Q5Rev3.1-12212015_Std Var App_60day disposal_DIL3										

MS1' 6/1 x

Sample Request Form: 62721

den_msvoa_totalbacklog @ scheduled 6/24/2020 12:36:41 PM Assigned to:Seifert, Judy L

Sample	Client Sample ID	Container	Method	Analytical Method	Hold Time	Due	PM	State Code	Storage	Hazard Level
280-136981-10	MW604x16-PDB2002	100t	8260B_DOD5	8260B_DOD5 7331.	06/10 23:59	06/15/20	PJM	CA	VS-5	Unconfirmed
M Q5/DIL1_Std variances Nov12 2013 ok_DF										
280-136981-15	TB052720-2002	1x	8260B_DOD5	8260B_DOD5	06/10 23:59	06/15/20	PJM	CA	ARC-1 & VS-5	Unconfirmed
M Q5/DIL1_Std variances Nov12 2013 ok_DF										

Sample Request Form: 62719

den_msvoa_totalbacklog Gabe 6/24/2020 11:20:07 AM Assigned to:Seifert, Judy L

Sample	Client Sample ID	Container	Method	Analytical Method	Hold Time	Due	PM	State Code	Storage	Hazard Level
280-137779-1	TB-2020061701	1x	8260_DoD	8260_DoD	07/01 23:59	06/30/20	DFB	UT	VS-12	Unconfirmed
M Q4/DIL3/LCSD if no job-sp MS/MSD/Use DF not prep/RunMS/MSDs at all DLs/RPT parent/FD in same run										
280-137779-2	U5-1263	1x	8260_DoD	8260_DoD	07/01 23:59	06/30/20	DFB	UT	VS-12 & Mtls-Strge & 182 & ARC-1	Unconfirmed
M Q4/DIL3/LCSD if no job-sp MS/MSD/Use DF not prep/RunMS/MSDs at all DLs/RPT parent/FD in same run										
280-137779-3	U5-1267	1x	8260_DoD	8260_DoD	07/01 23:59	06/30/20	DFB	UT	Mtls-Strge & ARC-1 & VS-12 & 182	Unconfirmed
M Q4/DIL3/LCSD if no job-sp MS/MSD/Use DF not prep/RunMS/MSDs at all DLs/RPT parent/FD in same run										
280-137779-4	U5-127	1x	8260_DoD	8260_DoD	07/01 23:59	06/30/20	DFB	UT	182 & ARC-1 & VS-12 & Mtls-Strge	Unconfirmed
M Q4/DIL3/LCSD if no job-sp MS/MSD/Use DF not prep/RunMS/MSDs at all DLs/RPT parent/FD in same run										
280-137779-5	U5-154	1x	8260_DoD	8260_DoD	07/01 23:59	06/30/20	DFB	UT	ARC-1 & VS-12	Unconfirmed
M Q4/DIL3/LCSD if no job-sp MS/MSD/Use DF not prep/RunMS/MSDs at all DLs/RPT parent/FD in same run										
280-137779-6	U5-232	1x	8260_DoD	8260_DoD	07/01 23:59	06/30/20	DFB	UT	Mtls-Strge & ARC-1 & VS-12 & 182	Unconfirmed
M Q4/DIL3/LCSD if no job-sp MS/MSD/Use DF not prep/RunMS/MSDs at all DLs/RPT parent/FD in same run										
280-137779-7	U5-233	10x	8260_DoD	8260_DoD	07/01 23:59	06/30/20	DFB	UT	VS-12 & ARC-1 & Mtls-Strge & 182	Unconfirmed
M Q4/DIL3/LCSD if no job-sp MS/MSD/Use DF not prep/RunMS/MSDs at all DLs/RPT parent/FD in same run										

Sample Request Form: 62714

den_msvoa_totalbacklog Gabe 6/24/2020 9:21:47 AM Assigned to:Seifert, Judy L

Sample	Client Sample ID	Container	Method	Analytical Method	Hold Time	Due	PM	State Code	Storage	Hazard Level
280-137808-1	KMARC-INF-201	1x	8260B_DOD5	8260B_DOD5	06/30 23:59	07/07/20	DFB	OH	VS-12	Unconfirmed
M Q5.1										
280-137808-2	KMARC-INF-201-2	1x	8260B_DOD5	8260B_DOD5	06/30 23:59	07/07/20	DFB	OH	VS-12	Unconfirmed
M Q5.1										
280-137808-3	KMARC-EFF-SP-401	1x	8260B_DOD5	8260B_DOD5	06/30 23:59	07/07/20	DFB	OH	VS-12	Unconfirmed
M Q5.1										
280-137808-4	KMARC-EFF-BGAC	1x	8260B_DOD5	8260B_DOD5	06/30 23:59	07/07/20	DFB	OH	VS-12	Unconfirmed
M Q5.1										
280-137808-5	KMARC-EFF-SP-501	1x	8260B_DOD5	8260B_DOD5	06/30 23:59	07/07/20	DFB	OH	VS-12	Unconfirmed
M Q5.1										
280-137808-6	KMARC-TB-01-061620	1x	8260B_DOD5	8260B_DOD5	06/30 23:59	07/07/20	DFB	OH	VS-12	Unconfirmed
M Q5.1										
280-137808-7	KMARC-TB-02-061620	1x	8260B_DOD5	8260B_DOD5	06/30 23:59	07/07/20	DFB	OH	VS-12	Unconfirmed
M Q5.1										
280-137810-1	OLFWS26	1x	8260B_DOD5	8260B_DOD5	06/30 23:59	07/07/20	DRR	CO	VS-12	Unconfirmed
M Q5.1/DIL3										
280-137810-2	061620TB1	1x	8260B_DOD5	8260B_DOD5	06/30 23:59	07/07/20	DRR	CO	VS-12	Unconfirmed
M Q5.1/DIL3										

Sequence Name: C:\HPCHEM\1\SEQUENCE\060120I.S
Comment:
Operator: SEIFERTJ
Data Path: C:\HPCHEM\1\DATA\060120I\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Eurofins TestAmerica Denver
Instrument ID: P
SOP: DV-MS-0010 Rev. 26
Method: (524 / 624 / 8260B / 8260C)
Purge Volume (20mL / 5mL)
Matrix: (Water / Soil / Waste)
Tune Time:
TALs Batch: 496958 8260
496959 624
496960 524

Line Type	Vial	DataFile	Method	Sample Name
1 Sample	100	P1657	BFB	BFB
2 Sample	1	P1658	8260	STD005
3 Sample	2	P1659	8260	STD010
4 Sample	3	P1660	8260	STD020
5 Sample	4	P1661	8260	STD050
6 Sample	5	P1662	8260	STD10
7 Sample	6	P1663	8260	ICIS
8 Sample	7	P1664	8260	STD75
9 Sample	8	P1665	8260	STD100
10 Sample	9	P1666	8260	STD200
11 Sample	10	P1667	8260	BLK
12 Sample	11	P1668	8260	ICV
13 Sample	12	P1669	8260	ICIS RR
14 Sample	13	P1670	8260	ICV

Calib
44775
44776
44777

ICIS. 17
ICV: 21

All < 20% For DoD

1st JL 6/2/20

2nd: Tam 6-2-20

Preliminary Report

TestAmerica Laboratories
Qc Batch Report

Data Path: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b

Worklist Name:	060120I	Worklist Num:	92011
Instrument:	VMS_P	Method:	AQ_VMSP_8260
Analysis Type:	VOA	Creator:	Seifert, Judy L
Inj Volume:	5	Inj Vol Units:	mL

QC Batching: Disabled Limit Group Batching: Disabled

QC Batch: 1	MSV - 8260B Water and Solid Raw Batch: 496958	MSV - 624 Raw Batch: 496959	MSV - 524 Raw Batch: 496960
# 1 BFB	# 1 BFB	# 1 BFB	# 1 BFB
# 2 CCV	# 2 CCV	# 2 CCV	
# 3 CCV	# 3 CCV	# 3 CCV	
# 4 LCS	# 4 LCS	# 4 LCS	
# 5 LCSD	# 5 LCSD	# 5 LCSD	
# 6 LCS	# 6 LCS	# 6 LCS	
# 7 LCSD	# 7 LCSD	# 7 LCSD	
# 8 MB	# 8 MB	# 8 MB	
# 9 280-121232-A-1	# 9 280-121232-A-1		
# 10 280-121232-A-2	# 10 280-121232-A-2		
# 11 280-121232-A-3	# 11 280-121232-A-3		
# 12 STD005	# 12 STD005	# 12 STD005	# 12 STD005
# 13 STD010	# 13 STD010	# 13 STD010	# 13 STD010
# 14 STD020	# 14 STD020	# 14 STD020	# 14 STD020
# 15 STD050	# 15 STD050	# 15 STD050	# 15 STD050
# 16 STD10	# 16 STD10	# 16 STD10	# 16 STD10
# 17 ICIS	# 17 ICIS	# 17 ICIS	# 17 ICIS
# 18 STD75	# 18 STD75	# 18 STD75	# 18 STD75
# 19 STD100	# 19 STD100	# 19 STD100	# 19 STD100
# 20 STD200	# 20 STD200	# 20 STD200	# 20 STD200
# 21 ICV	# 21 ICV	# 21 ICV	# 21 ICV
# 22 LCS	# 22 LCS	# 22 LCS	# 22 LCS
# 23 LCSD	# 23 LCSD	# 23 LCSD	# 23 LCSD
# 24 MB	# 24 MB	# 24 MB	# 24 MB
# 25 280-136811-R-3	# 25 280-136811-R-3		
# 26 280-136811-M-7	# 26 280-136811-M-7		
# 27 280-136816-C-5	# 27 280-136816-C-5		
# 28 280-136816-A-6	# 28 280-136816-A-6		
# 29 280-136816-C-7	# 29 280-136816-C-7		
# 30 280-136827-B-10	# 30 280-136827-B-10		
# 31 280-136734-J-1	# 31 280-136734-J-1		
# 32 280-136734-A-8	# 32 280-136734-A-8		
# 33 280-136758-F-3	# 33 280-136758-F-3		
# 34 280-136758-F-4	# 34 280-136758-F-4		
# 35 280-136758-A-5	# 35 280-136758-A-5		
# 36 280-136853-L-7	# 36 280-136853-L-7		
# 37 280-136853-G-8	# 37 280-136853-G-8		
# 38 CCVC	# 38 CCVC		

TestAmerica Laboratories
Worklist Report

Worklist Name: 060120I
Worklist Number: 92011
Instrument Name: VMS_P
Chrom Method: AQ_VMSP_8260
Purge Volume: 5.000
Units: mL
Analysis Type: VOA
Batch Directory: \\chromfs\Denver\ChromData\VMS_P\20200601-92011.b
Upload Directory: \\CorpTALSAPP16\280-DN-RawData\Organics\MS\VMS_P

Run Reagent: mv-IS_SS_00001
Amount Added: 5.000, Units: uL

Smp #	Lims ID	Smp Type	Ical Lvl	Dil Fact	Fract	Initial Vol/Wt	Vol/Wt Units	Sample Reagents	pH	Comment
1	# 1 BFB	BFB		1.000	voaWater	2.000	uL	mv-Cent BFB_00002		
2	# 2 CCV	CCV		1.000	voaWater	5.000	mL	MV-MegaMainA_00034 MV-Gas A_00058		
3	# 3 CCV	CCV		1.000	voaWater	5.000	mL	MV-Supp A_00044 mv-Cent IS_00006		
4	# 4 LCS	LCS		1.000	voaWater	5.000	mL	MV-Gas B_00060 MV-MegaMain B_00031		
5	# 5 LCSD	LCSD		1.000	voaWater	5.000	mL	MV-Gas B_00060 MV-MegaMain B_00031		
6	# 6 LCS	LCS		1.000	voaWater	5.000	mL	MV-Supp B_00027		
7	# 7 LCSD	LCSD		1.000	voaWater	5.000	mL	MV-Supp B_00027		
8	# 8 MB	MB		1.000	voaWater	5.000	mL			
9	# 9 280-121232-A-1	Client		1.000	voaWater	5.000	mL			
10	#10 280-121232-A-2	Client		1.000	voaWater	5.000	mL			
11	#11 280-121232-A-3	Client		1.000	voaWater	5.000	mL			
12	#12 STD005	IC	1	1.000	voaWater	5.000	mL	MV-Gas A_00058 MV-MegaMainA_00034		
13	#13 STD010	IC	2	1.000	voaWater	5.000	mL	MV-Gas A_00058 MV-MegaMainA_00034		
14	#14 STD020	IC	3	1.000	voaWater	5.000	mL	MV-Gas A_00058 MV-MegaMainA_00034		
15	#15 STD050	IC	4	1.000	voaWater	5.000	mL	MV-Gas A_00058 MV-MegaMainA_00034		
16	#16 STD10	IC	5	1.000	voaWater	5.000	mL	MV-Gas A_00058 MV-MegaMainA_00034		
17	#17 ICIS	ICIS	6	1.000	voaWater	5.000	mL	MV-Gas A_00058 MV-MegaMainA_00034		
18	#18 STD75	IC	7	1.000	voaWater	5.000	mL	MV-Gas A_00058 MV-MegaMainA_00034		
19	#19 STD100	IC	8	1.000	voaWater	5.000	mL	MV-Gas A_00058 MV-MegaMainA_00034		
20	#20 STD200	IC	9	1.000	voaWater	5.000	mL	MV-Gas A_00058 MV-MegaMainA_00034		
21	#21 ICV	ICV		1.000	voaWater	5.000	mL	MV-MegaMain B_00031 MV-Gas B_00060		
22	#22 LCS	LCS		1.000	voaWater	5.000	mL	MV-MegaMain B_00031 MV-Gas B_00060		
23	#23 LCSD	LCSD		1.000	voaWater	5.000	mL	MV-MegaMain B_00031 MV-Gas B_00060		
24	#24 MB	MB		1.000	voaWater	5.000	mL			
25	#25 280-136811-R-3	Client		1.000	voaWater	5.000	mL			
26	#26 280-136811-M-7	Client		1.000	voaWater	5.000	mL			
27	#27 280-136816-C-5	Client		200.0	voaWater	5.000	mL			
28	#28 280-136816-A-6	Client		100.0	voaWater	5.000	mL			
29	#29 280-136816-C-7	Client		5.000	voaWater	5.000	mL			
30	#30 280-136827-B-10	Client		4.000	voaWater	5.000	mL			
31	#31 280-136734-J-1	Client		1.000	voaWater	5.000	mL			
32	#32 280-136734-A-8	Client		1.000	voaWater	5.000	mL			
33	#33 280-136758-F-3	Client		1.000	voaWater	5.000	mL			
34	#34 280-136758-F-4	Client		1.000	voaWater	5.000	mL			
35	#35 280-136758-A-5	Client		1.000	voaWater	5.000	mL			
36	#36 280-136853-L-7	Client		1.000	voaWater	5.000	mL			
37	#37 280-136853-G-8	Client		1.000	voaWater	5.000	mL			
38	#38 CCVC	CCVC		1.000	voaWater	5.000	mL	MV-MegaMainA_00034 MV-Gas A_00058		

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 496958 Batch Start Date: 06/01/20 16:26 Batch Analyst: Seifert, Judy L

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	mv-Cent BFB 00002	MV-Gas A 00058	MV-Gas B 00060	mv-IS_SS 00001
BFB 280-496958/1		8260B		2 uL	2 uL	2 uL			
STD005 280-496958/12 IC		8260B		5 mL	5 mL		0.1 uL		5 uL
STD010 280-496958/13 IC		8260B		5 mL	5 mL		0.2 uL		5 uL
STD020 280-496958/14 IC		8260B		5 mL	5 mL		0.4 uL		5 uL
STD050 280-496958/15 IC		8260B		5 mL	5 mL		1 uL		5 uL
STD10 280-496958/16 IC		8260B		5 mL	5 mL		2 uL		5 uL
ICIS 280-496958/17		8260B		5 mL	5 mL		10 uL		5 uL
STD75 280-496958/18 IC		8260B		5 mL	5 mL		15 uL		5 uL
STD100 280-496958/19 IC		8260B		5 mL	5 mL		20 uL		5 uL
STD200 280-496958/20 IC		8260B		5 mL	5 mL		40 uL		5 uL
ICV 280-496958/21		8260B		5 mL	5 mL			10 uL	5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MV-MegaMain B 00031	MV-MegaMainA 00034				
BFB 280-496958/1		8260B							
STD005 280-496958/12 IC		8260B			0.25 uL				
STD010 280-496958/13 IC		8260B			0.5 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 496958 Batch Start Date: 06/01/20 16:26 Batch Analyst: Seifert, Judy L

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MV-MegaMain B 00031	MV-MegaMainA 00034				
STD020 280-496958/14 IC		8260B			1 uL				
STD050 280-496958/15 IC		8260B			2.5 uL				
STD10 280-496958/16 IC		8260B			5 uL				
ICIS 280-496958/17		8260B			25 uL				
STD75 280-496958/18 IC		8260B			37.5 uL				
STD100 280-496958/19 IC		8260B			50 uL				
STD200 280-496958/20 IC		8260B			100 uL				
ICV 280-496958/21		8260B		25 uL					

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499912 Batch Start Date: 06/24/20 08:05 Batch Analyst: Seifert, Judy L

Batch Method: 8260B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	mv-Cent BFB 00002	MV-Gas A 00059	MV-Gas B 00063	mv-IS_SS 00006
BFB 280-499912/1		8260B		2 uL	2 uL	2 uL			
CCV 280-499912/2		8260B		5 mL	5 mL		10 uL		5 uL
LCS 280-499912/5		8260B		5 mL	5 mL			5 uL	5 uL
LCSD 280-499912/6		8260B		5 mL	5 mL			5 uL	5 uL
MB 280-499912/10		8260B		5 mL	5 mL				5 uL
280-137736-C-1	WC-Q3-JUNE20	8260B	T	5 mL	5 mL				5 uL
280-137736-B-2	TB03-061620	8260B	T	5 mL	5 mL				5 uL
CCVC 280-499912/34		8260B		5 mL	5 mL		10 uL		5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MV-MegaMain B 00031	MV-MegaMainA 00034				
BFB 280-499912/1		8260B							
CCV 280-499912/2		8260B			25 uL				
LCS 280-499912/5		8260B		12.5 uL					
LCSD 280-499912/6		8260B		12.5 uL					
MB 280-499912/10		8260B							
280-137736-C-1	WC-Q3-JUNE20	8260B	T						
280-137736-B-2	TB03-061620	8260B	T						
CCVC 280-499912/34		8260B			25 uL				

Batch Notes	

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.

RSK_175_DOD5

Dissolved Gases (GC)

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06252002.D

Lab ID: LCS 280-500092/2 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Methane	0.0730	0.0687	94	73-125	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06252003.D

Lab ID: LCSD 280-500092/3 Client ID:

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Methane	0.0730	0.0717	98	4	20	73-125	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06252010.D

Lab ID: 280-137736-9 MS Client ID: PZ019-20A MS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC	QC LIMITS REC	#
Methane	0.0730	0.0020 U	0.0630	86	73-125	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06252011.D

Lab ID: 280-137736-9 MSD Client ID: PZ019-20A MSD

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Methane	0.0730	0.0627	86	0	20	73-125	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: MB 280-500092/4

Matrix: Water Date Extracted:

Lab File ID:(1) 06252004.D Lab File ID:(2) 06252004.D

Date Analyzed:(1) 06/25/2020 12:09 Date Analyzed:(2) 06/25/2020 12:09

Instrument ID:(1) VGC_J Instrument ID:(2) VGC_J

GC Column:(1) HP-Plot Q ID: 0.53(mm) GC Column:(2) Rt-Alumina K ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 280-500092/2	06/25/2020 11:45	06/25/2020 11:45
	LCSD 280-500092/3	06/25/2020 11:57	06/25/2020 11:57
PZ019-20A	280-137736-9	06/25/2020 13:06	06/25/2020 13:06
PZ019-20A DU	280-137736-9 DU	06/25/2020 13:18	06/25/2020 13:18
PZ019-20A MS	280-137736-9 MS	06/25/2020 13:31	06/25/2020 13:31
PZ019-20A MSD	280-137736-9 MSD	06/25/2020 13:43	06/25/2020 13:43
G0091-20A	280-137736-3	06/25/2020 13:55	06/25/2020 13:55
G0123-20A	280-137736-4	06/25/2020 14:08	06/25/2020 14:08
G0122-20A	280-137736-5	06/25/2020 14:20	06/25/2020 14:20
G0096-20A	280-137736-6	06/25/2020 14:32	06/25/2020 14:32
G0296-20A	280-137736-7	06/25/2020 14:45	06/25/2020 14:45
G0092-20A	280-137736-8	06/25/2020 14:57	06/25/2020 14:57
PZ020-20A	280-137736-10	06/25/2020 15:21	06/25/2020 15:21
PZ020-20A DU	280-137736-10 DU	06/25/2020 15:34	06/25/2020 15:34
G0087-20A	280-137736-11	06/25/2020 15:46	06/25/2020 15:46
G0088-20A	280-137736-12	06/25/2020 15:58	06/25/2020 15:58
G0089-20A	280-137736-13	06/25/2020 16:10	06/25/2020 16:10
G0077-20A	280-137736-14	06/25/2020 16:22	06/25/2020 16:22
G0078-20A	280-137736-15	06/25/2020 16:35	06/25/2020 16:35
G0093-20A	280-137736-16	06/25/2020 16:47	06/25/2020 16:47
G0086-20A	280-137736-17	06/25/2020 16:59	06/25/2020 16:59

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0123-20A Lab Sample ID: 280-137736-4

Instrument ID (1): VGC_J Instrument ID (2): VGC_J

Date Analyzed (1): 06/25/2020 14:08 Date Analyzed (2): 06/25/2020 14:08

GC Column (1): HP-Plot Q ID: 0.53(mm) GC Column (2): Rt-Alumina KC ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		1.55	1.55	1.63	15		3.7
	2		1.16	1.14	1.22	16		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0122-20A Lab Sample ID: 280-137736-5

Instrument ID (1): VGC_J Instrument ID (2): VGC_J

Date Analyzed (1): 06/25/2020 14:20 Date Analyzed (2): 06/25/2020 14:20

GC Column (1): HP-Plot Q ID: 0.53(mm) GC Column (2): Rt-Alumina KC ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		1.56	1.55	1.63	8.5		4.6
	2		1.16	1.14	1.22	8.9		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0096-20A Lab Sample ID: 280-137736-6

Instrument ID (1): VGC_J Instrument ID (2): VGC_J

Date Analyzed (1): 06/25/2020 14:32 Date Analyzed (2): 06/25/2020 14:32

GC Column (1): HP-Plot Q ID: 0.53(mm) GC Column (2): Rt-Alumina KC ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		1.57	1.55	1.63	5.1		2.8
	2		1.17	1.14	1.22	5.3		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0296-20A Lab Sample ID: 280-137736-7

Instrument ID (1): VGC_J Instrument ID (2): VGC_J

Date Analyzed (1): 06/25/2020 14:45 Date Analyzed (2): 06/25/2020 14:45

GC Column (1): HP-Plot Q ID: 0.53(mm) GC Column (2): Rt-Alumina KC ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		1.57	1.55	1.63	4.7		2.9
	2		1.17	1.14	1.22	4.8		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0092-20A Lab Sample ID: 280-137736-8

Instrument ID (1): VGC_J Instrument ID (2): VGC_J

Date Analyzed (1): 06/25/2020 14:57 Date Analyzed (2): 06/25/2020 14:57

GC Column (1): HP-Plot Q ID: 0.53(mm) GC Column (2): Rt-Alumina KC ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		1.57	1.55	1.63	0.018		4.5
	2		1.17	1.14	1.22	0.019		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: PZ019-20A MS Lab Sample ID: 280-137736-9 MS

Instrument ID (1): VGC_J Instrument ID (2): VGC_J

Date Analyzed (1): 06/25/2020 13:31 Date Analyzed (2): 06/25/2020 13:31

GC Column (1): HP-Plot Q ID: 0.53(mm) GC Column (2): Rt-Alumina KC ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		1.57	1.55	1.63	0.0630		2.3
	2		1.17	1.14	1.22	0.0645		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: PZ019-20A MSD Lab Sample ID: 280-137736-9 MSD

Instrument ID (1): VGC_J Instrument ID (2): VGC_J

Date Analyzed (1): 06/25/2020 13:43 Date Analyzed (2): 06/25/2020 13:43

GC Column (1): HP-Plot Q ID: 0.53(mm) GC Column (2): Rt-Alumina KC ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		1.58	1.55	1.63	0.0627		2.3
	2		1.17	1.14	1.22	0.0642		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0088-20A Lab Sample ID: 280-137736-12

Instrument ID (1): VGC_J Instrument ID (2): VGC_J

Date Analyzed (1): 06/25/2020 15:58 Date Analyzed (2): 06/25/2020 15:58

GC Column (1): HP-Plot Q ID: 0.53(mm) GC Column (2): Rt-Alumina KC ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		1.57	1.55	1.63	0.0029		1.3
	2		1.17	1.14	1.22	0.0029		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0089-20A Lab Sample ID: 280-137736-13

Instrument ID (1): VGC_J Instrument ID (2): VGC_J

Date Analyzed (1): 06/25/2020 16:10 Date Analyzed (2): 06/25/2020 16:10

GC Column (1): HP-Plot Q ID: 0.53(mm) GC Column (2): Rt-Alumina KC ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		1.57	1.55	1.63	3.4		4.6
	2		1.17	1.14	1.22	3.5		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0078-20A Lab Sample ID: 280-137736-15

Instrument ID (1): VGC_J Instrument ID (2): VGC_J

Date Analyzed (1): 06/25/2020 16:35 Date Analyzed (2): 06/25/2020 16:35

GC Column (1): HP-Plot Q ID: 0.53(mm) GC Column (2): Rt-Alumina KC ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		1.57	1.55	1.63	0.13		4.1
	2		1.17	1.14	1.22	0.14		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0093-20A Lab Sample ID: 280-137736-16

Instrument ID (1): VGC_J Instrument ID (2): VGC_J

Date Analyzed (1): 06/25/2020 16:47 Date Analyzed (2): 06/25/2020 16:47

GC Column (1): HP-Plot Q ID: 0.53(mm) GC Column (2): Rt-Alumina KC ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		1.56	1.55	1.63	5.8		3.7
	2		1.17	1.14	1.22	6.0		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0086-20A Lab Sample ID: 280-137736-17

Instrument ID (1): VGC_J Instrument ID (2): VGC_J

Date Analyzed (1): 06/25/2020 16:59 Date Analyzed (2): 06/25/2020 16:59

GC Column (1): HP-Plot Q ID: 0.53(mm) GC Column (2): Rt-Alumina KC ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		1.57	1.55	1.63	0.022		3.1
	2		1.17	1.14	1.22	0.023		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-500092/2

Instrument ID (1): VGC_J Instrument ID (2): VGC_J

Date Analyzed (1): 06/25/2020 11:45 Date Analyzed (2): 06/25/2020 11:45

GC Column (1): HP-Plot Q ID: 0.53(mm) GC Column (2): Rt-Alumina KC ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		1.58	1.55	1.63	0.0687		0.2
	2		1.18	1.14	1.22	0.0689		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 280-500092/3

Instrument ID (1): VGC_J Instrument ID (2): VGC_J

Date Analyzed (1): 06/25/2020 11:57 Date Analyzed (2): 06/25/2020 11:57

GC Column (1): HP-Plot Q ID: 0.53(mm) GC Column (2): Rt-Alumina KC ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Methane	1		1.59	1.55	1.63	0.0717		0.2
	2		1.18	1.14	1.22	0.0718		

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0091-20A Lab Sample ID: 280-137736-3

Matrix: Water Lab File ID: 06252012.D

Analysis Method: RSK-175 Date Collected: 06/16/2020 09:35

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 13:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.0020	U	0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252012.D				
Lims ID:	280-137736-I-3				
Client ID:	G0091-20A				
Sample Type:	Client				
Inject. Date:	25-Jun-2020 13:55:58	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	18.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-137736-I-3				
Misc. Info.:	280-0092746-012				
Operator ID:	gm	Instrument ID:	VGC_J		
Method:	\\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m				
Limit Group:	GCV - RSK 175				
Method Label:	DV-GC-0025: Dissolved Gases in Water by RSK-175				
Last Update:	26-Jun-2020 08:35:24	Calib Date:	24-Jun-2020 11:46:32		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D				
Column 1 :	Rt-Alumina BOND/KCl (0.53 mm)		Det: GC FID1A		
Column 2 :	HP-PLOT/Q (0.53 mm)		Det: GC FID2B		
Process Host:	CTX1026				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 1,1,1-Trifluoroethane						
1		4.098			ND	
2		5.458				
2 Methane						
1		1.182			ND	
2		1.591				
3 Ethane						
1		1.470			ND	
2		2.766				
4 Ethylene						
1		1.787			ND	
2		2.382				
5 Propane						
1		2.692			ND	
2		4.616				
6 Acetylene						
1		4.225			ND	
2		2.497				
7 Butane						
1		4.550			ND	
2		6.086				
8 isobutylene						
1		5.382			ND	
2		5.927				

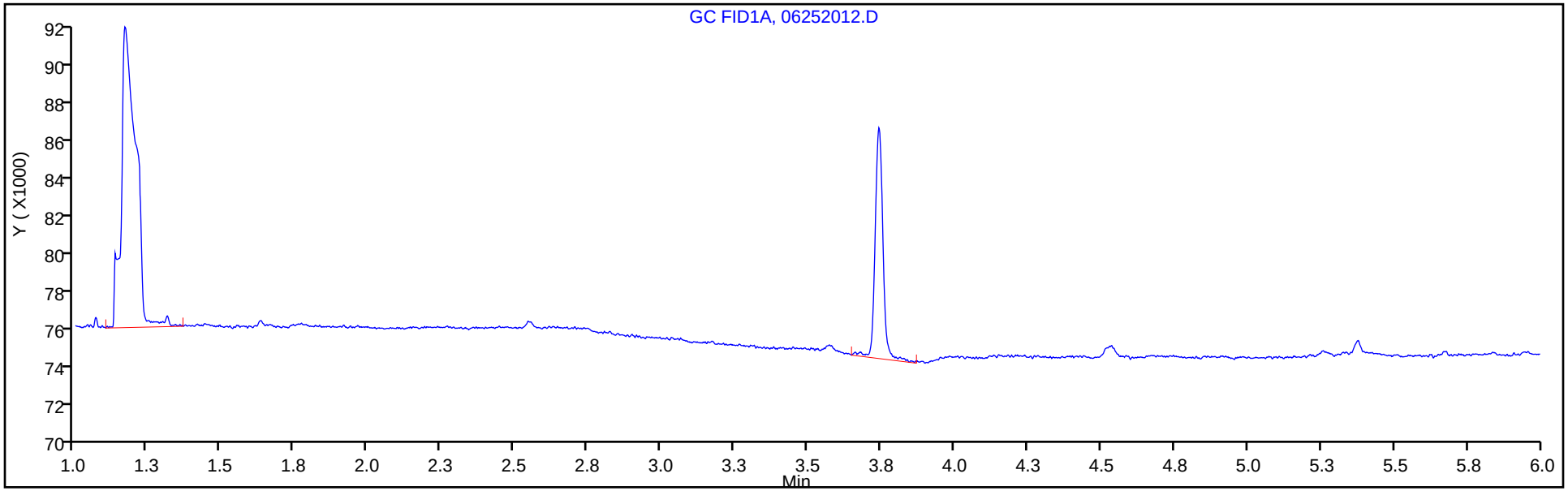
Report Date: 26-Jun-2020 08:35:30 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

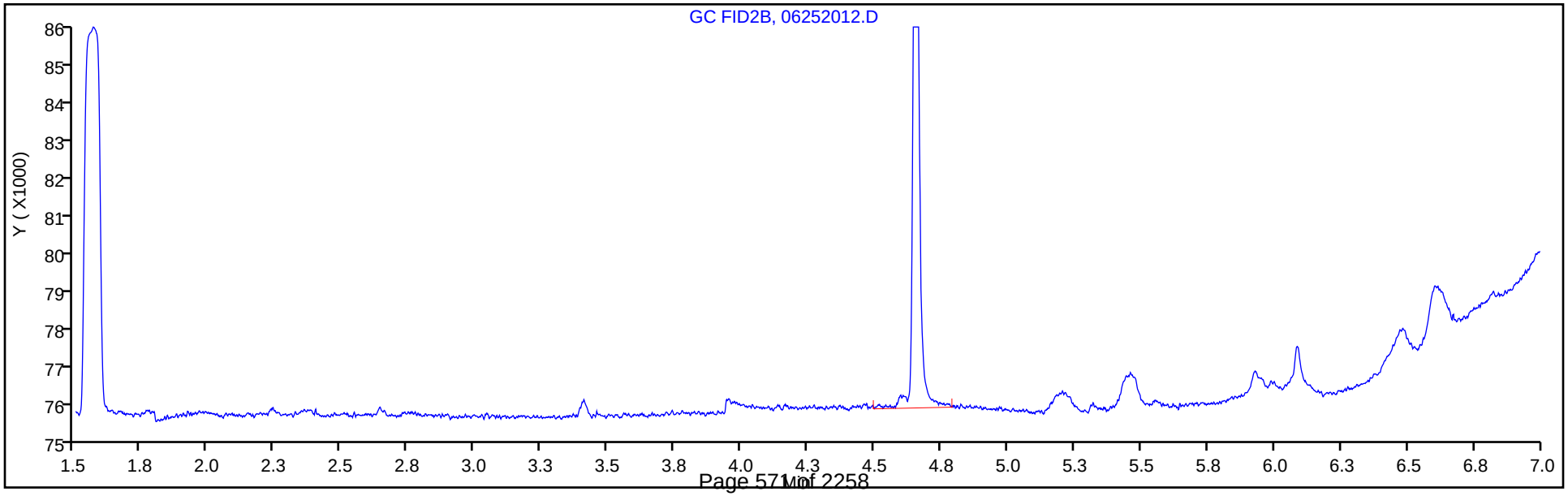
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252012.D

Injection Date:	25-Jun-2020 13:55:58	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	280-137736-I-3	Lab Sample ID:	280-137736-3	Worklist Smp#:	12
Client ID:	G0091-20A				
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0123-20A Lab Sample ID: 280-137736-4

Matrix: Water Lab File ID: 06252013.D

Analysis Method: RSK-175 Date Collected: 06/16/2020 13:20

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 14:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	15	M	0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252013.D
Lims ID: 280-137736-G-4
Client ID: G0123-20A
Sample Type: Client
Inject. Date: 25-Jun-2020 14:08:13 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: 280-137736-G-4
Misc. Info.: 280-0092746-013
Operator ID: gm Instrument ID: VGC_J

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 08:35:24 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

First Level Reviewer: meierg Date: 25-Jun-2020 14:53:23

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 1,1,1-Trifluoroethane						
1		4.098			ND	
2		5.458				
2 Methane						a
1	1.162	1.182	-0.020	1839672330	15582	a
2	1.550	1.591	-0.041	1617028119	15013	a
					RPD = 3.72	
3 Ethane						
1		1.470			ND	
2		2.766				
4 Ethylene						
1		1.787			ND	
2		2.382				
5 Propane						
1		2.692			ND	
2		4.616				
6 Acetylene						
1		4.225			ND	
2		2.497				
7 Butane						
1		4.550			ND	
2		6.086				
8 isobutylene						
1		5.382			ND	
2		5.927				

QC Flag Legend

Review Flags

a - User Assigned ID

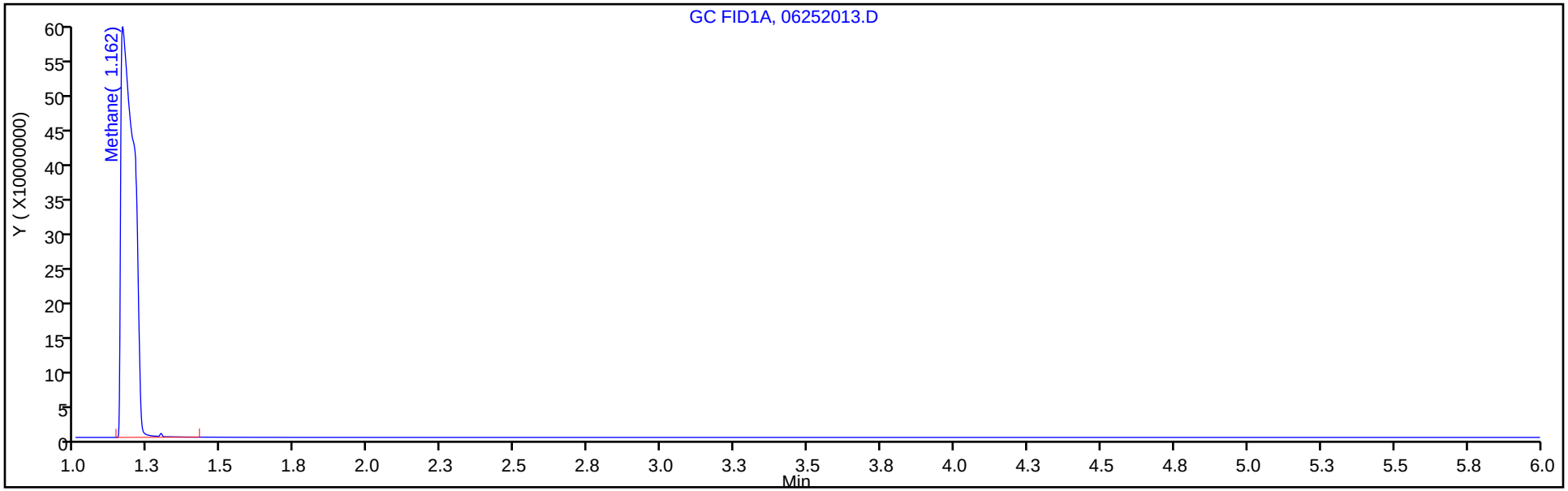
Report Date: 26-Jun-2020 08:35:30 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

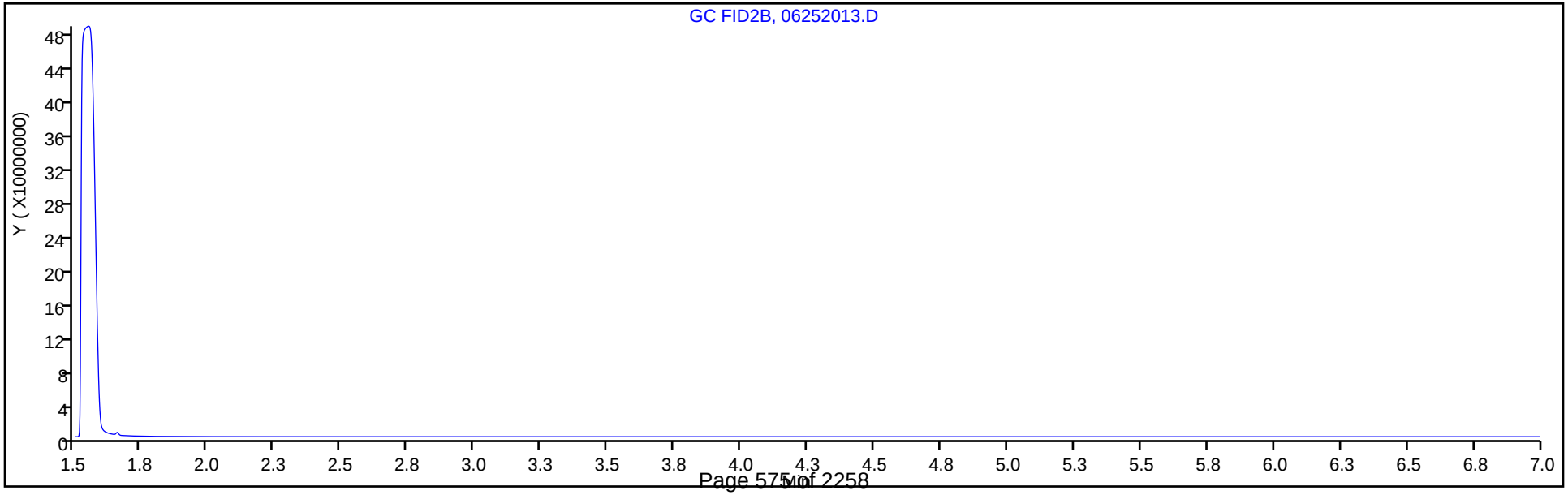
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252013.D

Injection Date:	25-Jun-2020 14:08:13	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	280-137736-G-4	Lab Sample ID:	280-137736-4	Worklist Smp#:	13
Client ID:	G0123-20A				
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

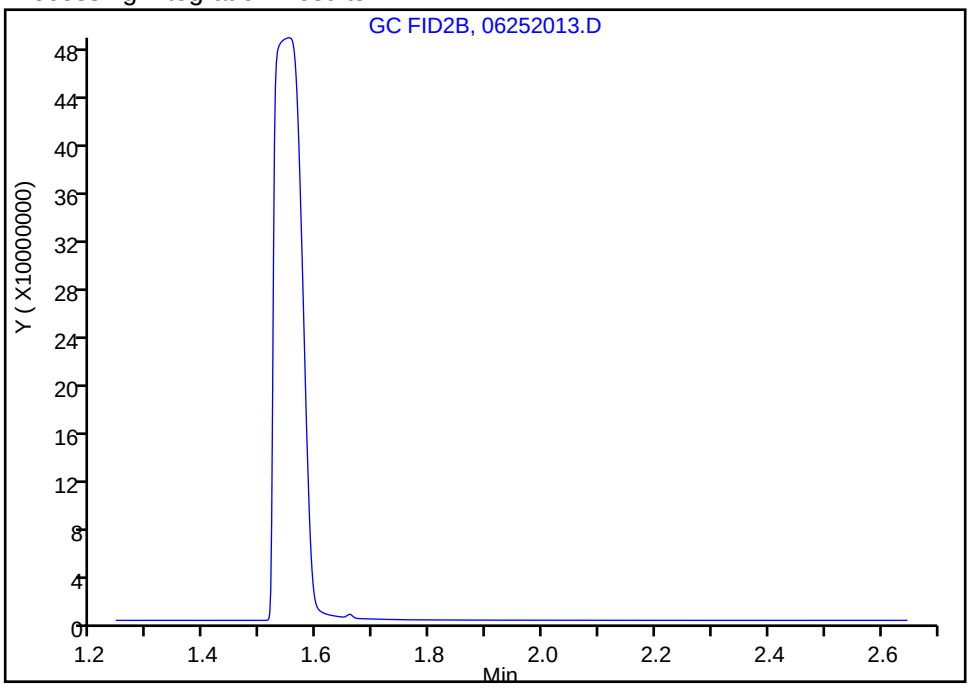
Data File:	\\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252013.D				
Injection Date:	25-Jun-2020 14:08:13	Instrument ID:	VGC_J		
Lims ID:	280-137736-G-4	Lab Sample ID:	280-137736-4		
Client ID:	G0123-20A				
Operator ID:	gm	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	18.000 mL	Dil. Factor:	1.0000		
Method:	RSK_J	Limit Group:	GCV - RSK 175		
Column:	HP-PLOT/Q (0.53 mm)	Detector	GC FID2B		

2 Methane, CAS: 74-82-8

Signal: 2

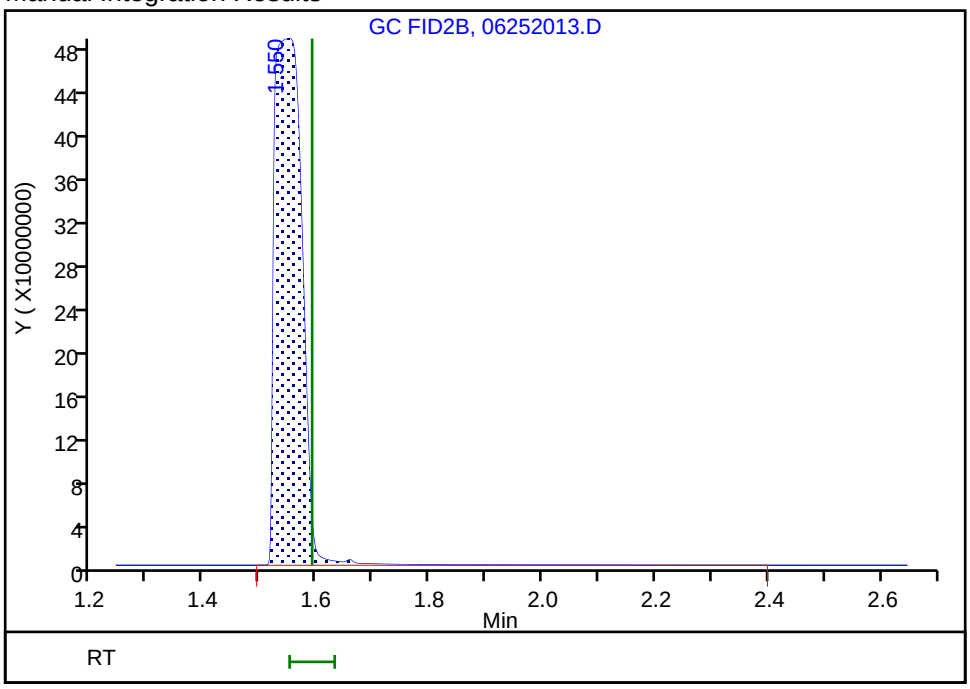
Not Detected
Expected RT: 1.59

Processing Integration Results



Manual Integration Results

RT: 1.55
Area: 1617028119
Amount: 15013
Amount Units: ug/l



Reviewer: meierg, 25-Jun-2020 14:53:12
Audit Action: Assigned Compound ID Audit Reason: Peak not integrated

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0122-20A Lab Sample ID: 280-137736-5

Matrix: Water Lab File ID: 06252014.D

Analysis Method: RSK-175 Date Collected: 06/16/2020 11:55

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 14:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	8.5		0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252014.D
Lims ID: 280-137736-G-5
Client ID: G0122-20A
Sample Type: Client
Inject. Date: 25-Jun-2020 14:20:29 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: 280-137736-G-5
Misc. Info.: 280-0092746-014
Operator ID: gm Instrument ID: VGC_J

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 08:35:24 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

First Level Reviewer: meierg Date: 25-Jun-2020 14:53:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 1,1,1-Trifluoroethane						
1		4.098			ND	
2		5.458				
2 Methane						
1	1.163	1.182	-0.019	1052952628	8918.3	
2	1.557	1.591	-0.034	917562497	8518.8	
					RPD = 4.58	
3 Ethane						
1		1.470			ND	
2		2.766				
4 Ethylene						
1		1.787			ND	
2		2.382				
5 Propane						
1		2.692			ND	
2		4.616				
6 Acetylene						
1		4.225			ND	
2		2.497				
7 Butane						
1		4.550			ND	
2		6.086				
8 isobutylene						
1		5.382			ND	
2		5.927				

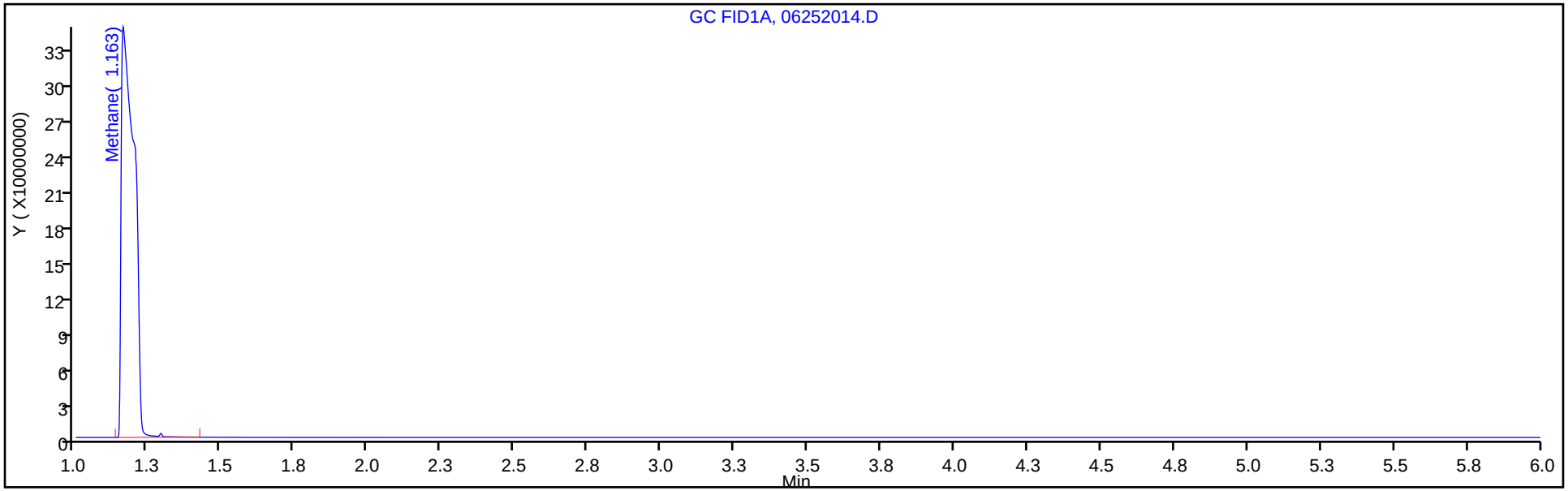
Report Date: 26-Jun-2020 08:35:30 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

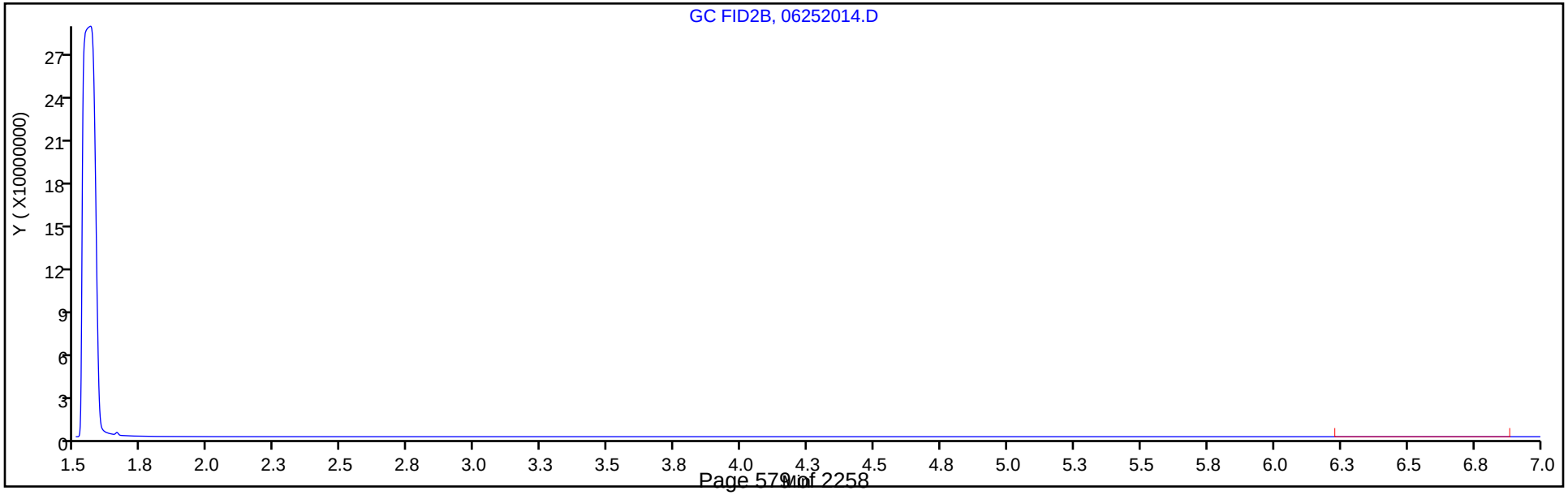
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252014.D

Injection Date:	25-Jun-2020 14:20:29	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	280-137736-G-5	Lab Sample ID:	280-137736-5	Worklist Smp#:	14
Client ID:	G0122-20A				
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0096-20A Lab Sample ID: 280-137736-6

Matrix: Water Lab File ID: 06252015.D

Analysis Method: RSK-175 Date Collected: 06/16/2020 09:40

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 14:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	5.1		0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252015.D
Lims ID: 280-137736-G-6
Client ID: G0096-20A
Sample Type: Client
Inject. Date: 25-Jun-2020 14:32:46 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: 280-137736-G-6
Misc. Info.: 280-0092746-015
Operator ID: gm Instrument ID: VGC_J

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 08:35:24 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

First Level Reviewer: meierg Date: 25-Jun-2020 14:53:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 1,1,1-Trifluoroethane						
1		4.098			ND	
2		5.458				
2 Methane						
1	1.167	1.182	-0.015	622002578	5268.1	
2	1.567	1.591	-0.024	551539800	5120.5	
					RPD = 2.84	
3 Ethane						
1		1.470			ND	
2		2.766				
4 Ethylene						
1		1.787			ND	
2		2.382				
5 Propane						
1		2.692			ND	
2		4.616				
6 Acetylene						
1		4.225			ND	
2		2.497				
7 Butane						
1		4.550			ND	
2		6.086				
8 isobutylene						
1		5.382			ND	
2		5.927				

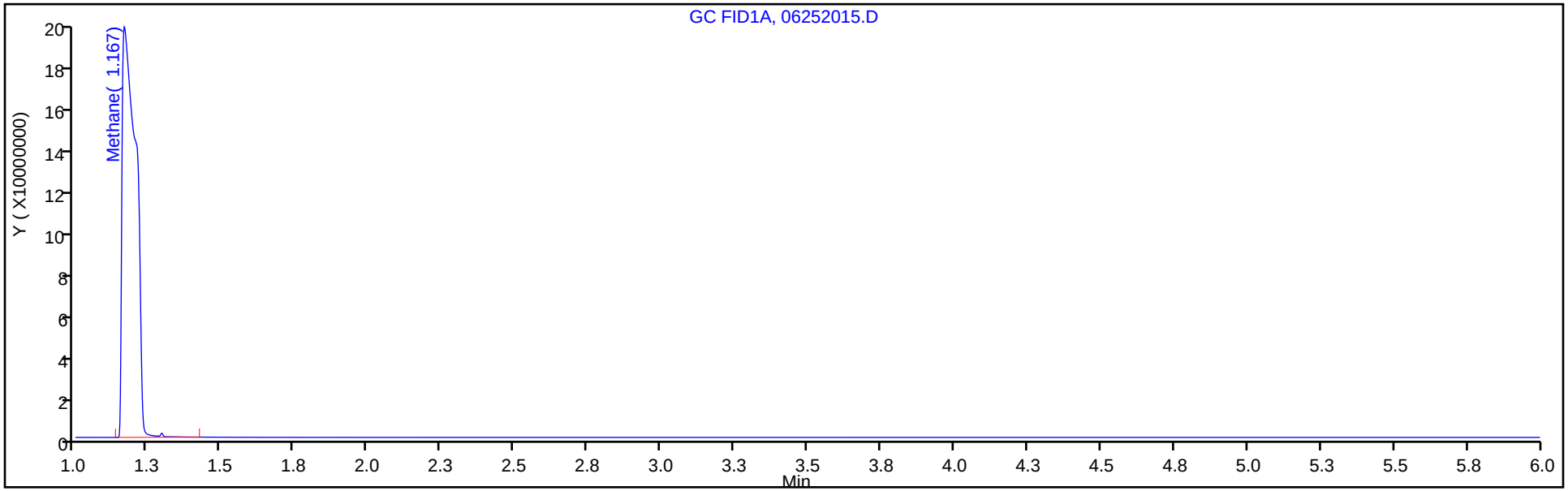
Report Date: 26-Jun-2020 08:35:31 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

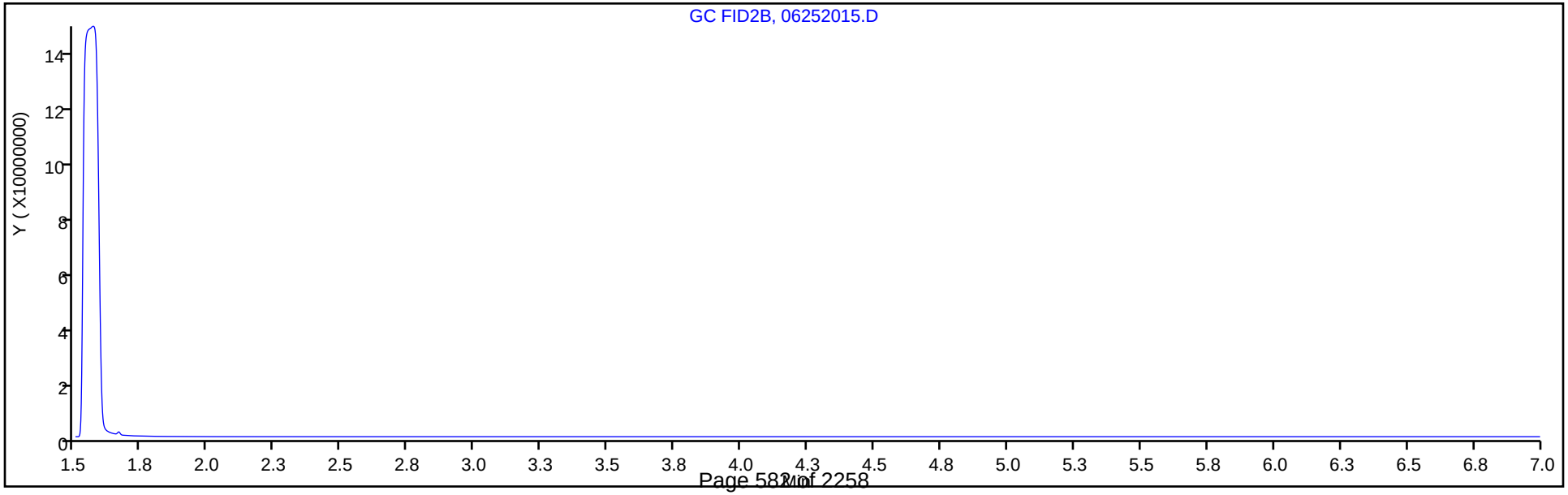
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252015.D

Injection Date:	25-Jun-2020 14:32:46	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	280-137736-G-6	Lab Sample ID:	280-137736-6	Worklist Smp#:	15
Client ID:	G0096-20A				
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0296-20A Lab Sample ID: 280-137736-7

Matrix: Water Lab File ID: 06252016.D

Analysis Method: RSK-175 Date Collected: 06/16/2020 08:00

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 14:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	4.7		0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252016.D
Lims ID: 280-137736-I-7
Client ID: G0296-20A
Sample Type: Client
Inject. Date: 25-Jun-2020 14:45:03 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: 280-137736-I-7
Misc. Info.: 280-0092746-016
Operator ID: gm Instrument ID: VGC_J

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 08:35:24 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 1,1,1-Trifluoroethane						
1		4.098			ND	
2		5.458				
2 Methane						
1	1.166	1.182	-0.016	569014762	4819.2	
2	1.566	1.591	-0.025	504021611	4679.3	
					RPD = 2.95	
3 Ethane						
1		1.470			ND	
2		2.766				
4 Ethylene						
1		1.787			ND	
2		2.382				
5 Propane						
1		2.692			ND	
2		4.616				
6 Acetylene						
1		4.225			ND	
2		2.497				
7 Butane						
1		4.550			ND	
2		6.086				
8 isobutylene						
1		5.382			ND	
2		5.927				

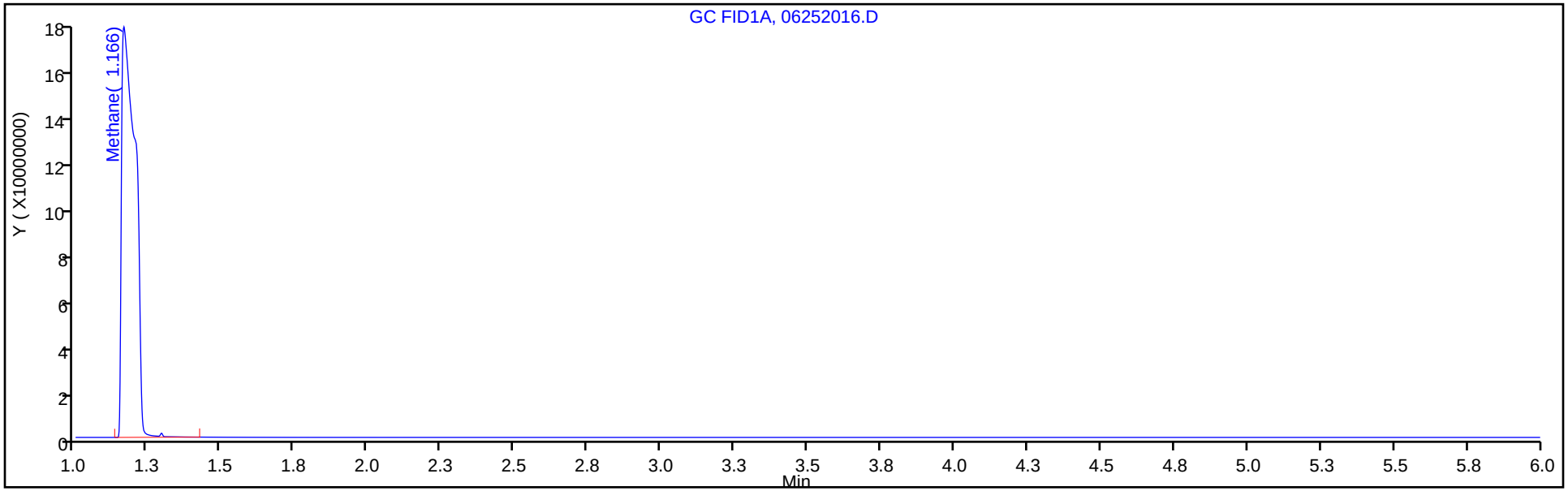
Report Date: 26-Jun-2020 08:35:31 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

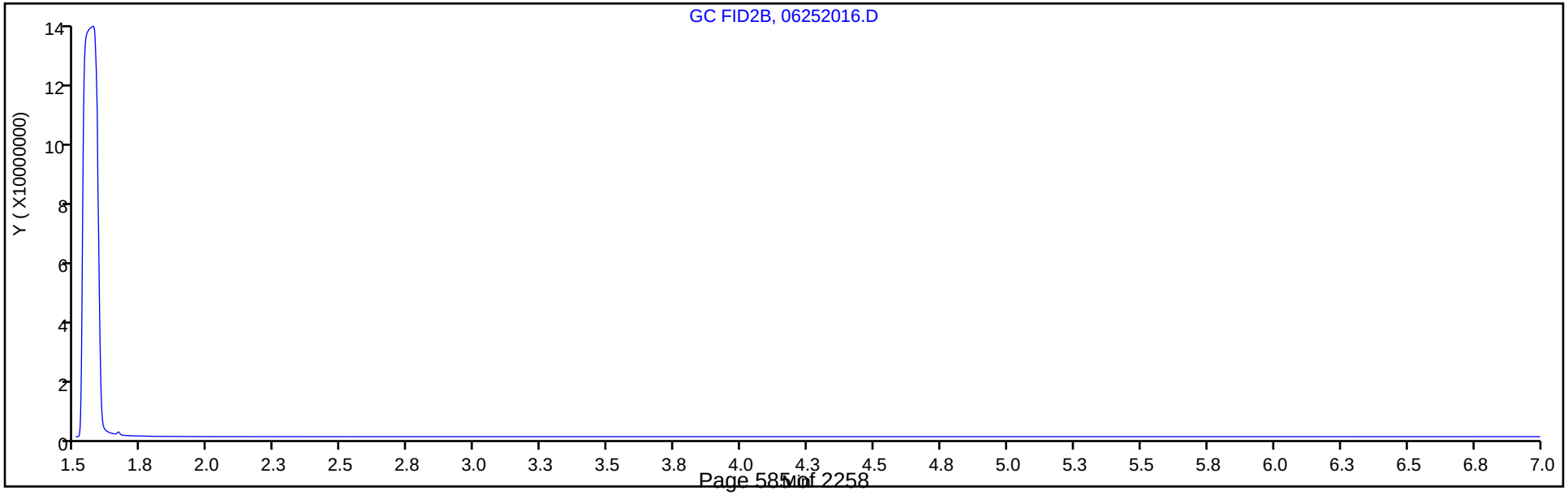
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252016.D

Injection Date:	25-Jun-2020 14:45:03	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	280-137736-I-7	Lab Sample ID:	280-137736-7	Worklist Smp#:	16
Client ID:	G0296-20A				
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0092-20A Lab Sample ID: 280-137736-8

Matrix: Water Lab File ID: 06252017.D

Analysis Method: RSK-175 Date Collected: 06/16/2020 10:40

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 14:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.018		0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252017.D
Lims ID: 280-137736-G-8
Client ID: G0092-20A
Sample Type: Client
Inject. Date: 25-Jun-2020 14:57:19 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: 280-137736-G-8
Misc. Info.: 280-0092746-017
Operator ID: gm Instrument ID: VGC_J

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 08:35:24 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 1,1,1-Trifluoroethane						
1		4.098			ND	
2		5.458				
2 Methane						
1	1.169	1.182	-0.013	2264322	18.8	
2	1.572	1.591	-0.019	1962914	17.9	
					RPD = 4.48	
3 Ethane						
1		1.470			ND	
2		2.766				
4 Ethylene						
1		1.787			ND	
2		2.382				
5 Propane						
1		2.692			ND	
2		4.616				
6 Acetylene						
1		4.225			ND	
2		2.497				
7 Butane						
1		4.550			ND	
2		6.086				
8 isobutylene						
1		5.382			ND	
2		5.927				

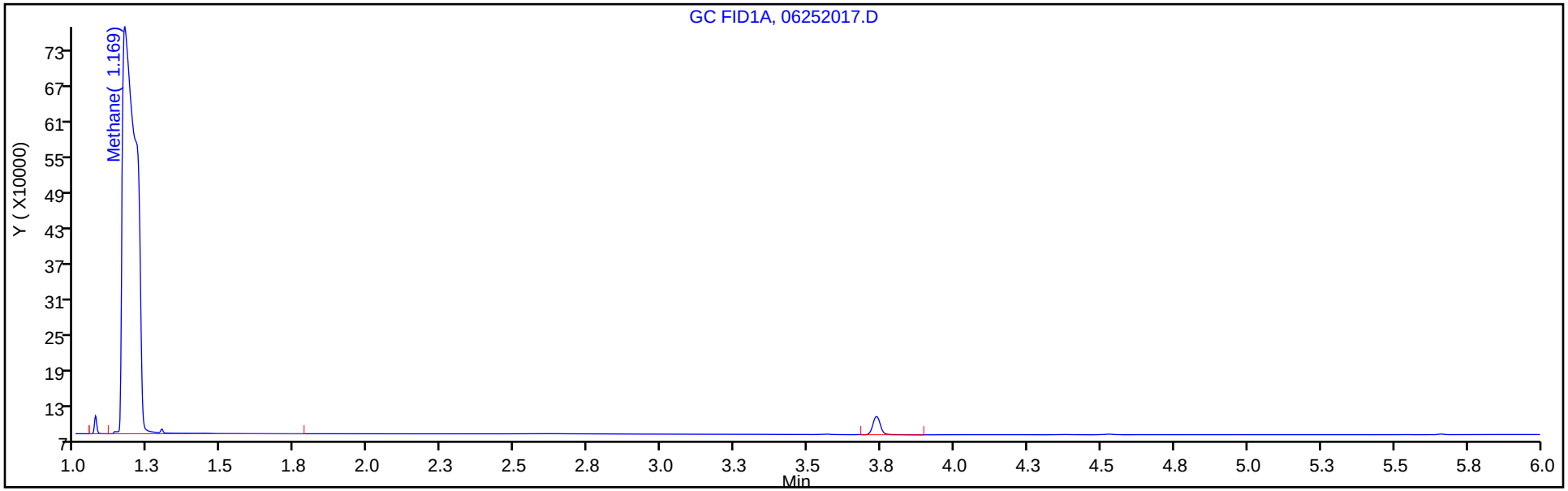
Report Date: 26-Jun-2020 08:35:32 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

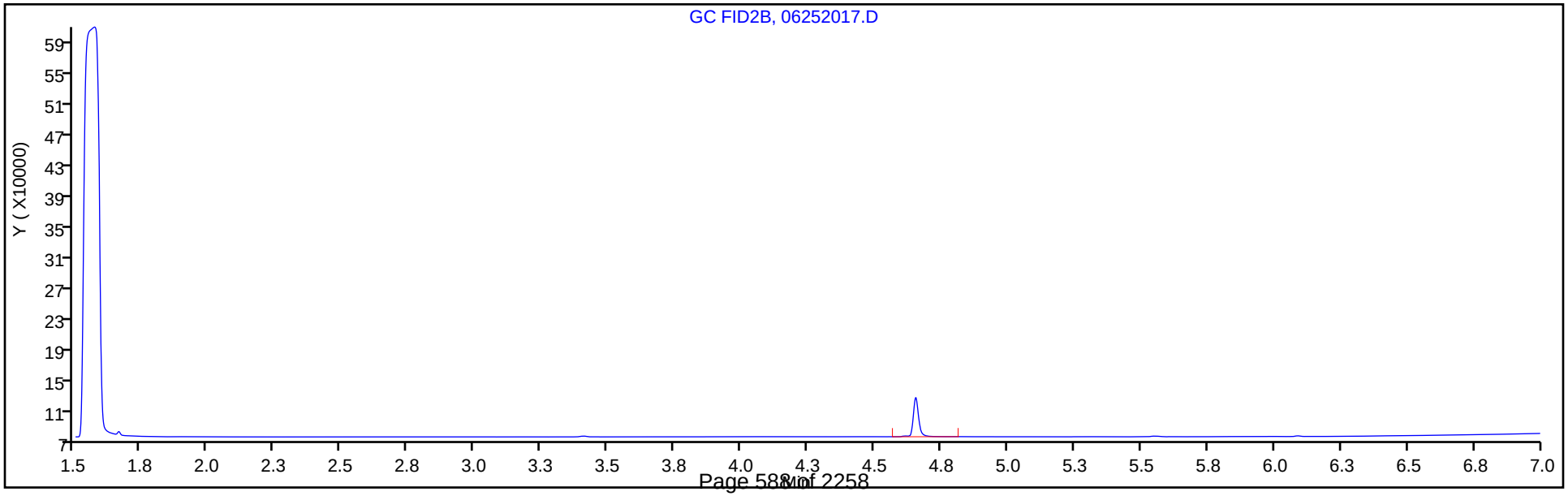
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252017.D

Injection Date:	25-Jun-2020 14:57:19	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	280-137736-G-8	Lab Sample ID:	280-137736-8	Worklist Smp#:	17
Client ID:	G0092-20A				
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: PZ019-20A Lab Sample ID: 280-137736-9

Matrix: Water Lab File ID: 06252008.D

Analysis Method: RSK-175 Date Collected: 06/16/2020 12:00

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 13:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.0020	U	0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252008.D				
Lims ID:	280-137736-G-9				
Client ID:	PZ019-20A				
Sample Type:	Client				
Inject. Date:	25-Jun-2020 13:06:42	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	18.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-137736-G-9				
Misc. Info.:	280-0092746-008				
Operator ID:	gm	Instrument ID:	VGC_J		
Method:	\\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m				
Limit Group:	GCV - RSK 175				
Method Label:	DV-GC-0025: Dissolved Gases in Water by RSK-175				
Last Update:	26-Jun-2020 08:35:24	Calib Date:	24-Jun-2020 11:46:32		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D				
Column 1 :	Rt-Alumina BOND/KCl (0.53 mm)		Det: GC FID1A		
Column 2 :	HP-PLOT/Q (0.53 mm)		Det: GC FID2B		
Process Host:	CTX1026				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 1,1,1-Trifluoroethane						
1		4.098			ND	
2		5.458				
2 Methane						
1		1.182			ND	
2		1.591				
3 Ethane						
1		1.470			ND	
2		2.766				
4 Ethylene						
1		1.787			ND	
2		2.382				
5 Propane						
1		2.692			ND	
2		4.616				
6 Acetylene						
1		4.225			ND	
2		2.497				
7 Butane						
1		4.550			ND	
2		6.086				
8 isobutylene						
1		5.382			ND	
2		5.927				

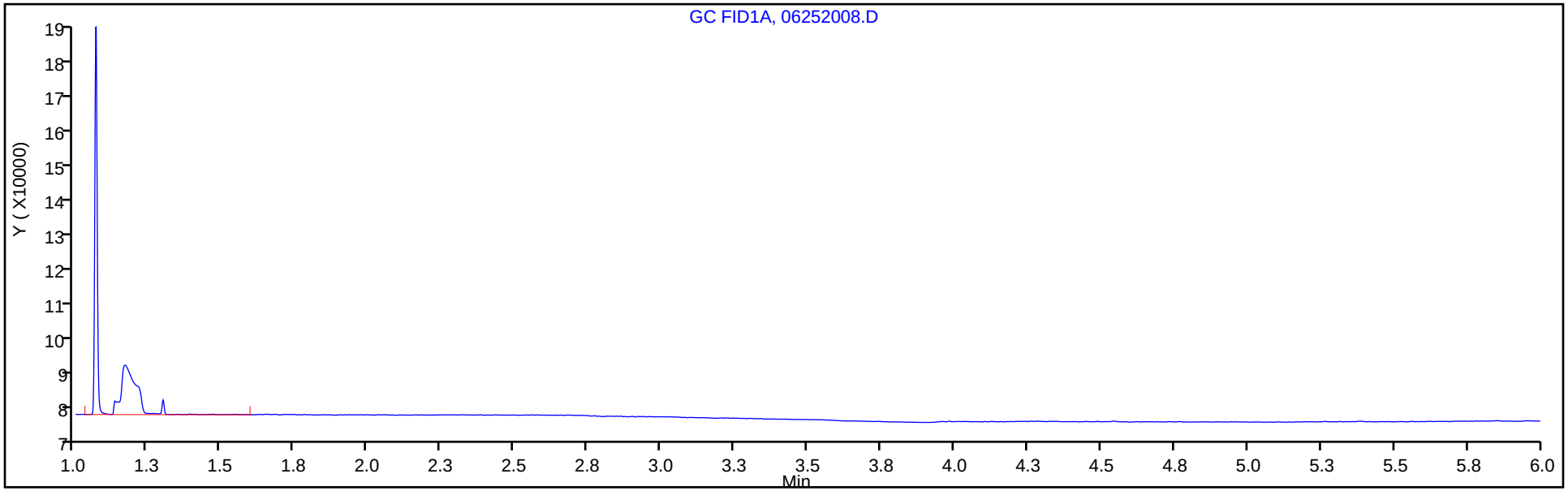
Report Date: 26-Jun-2020 08:35:28 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

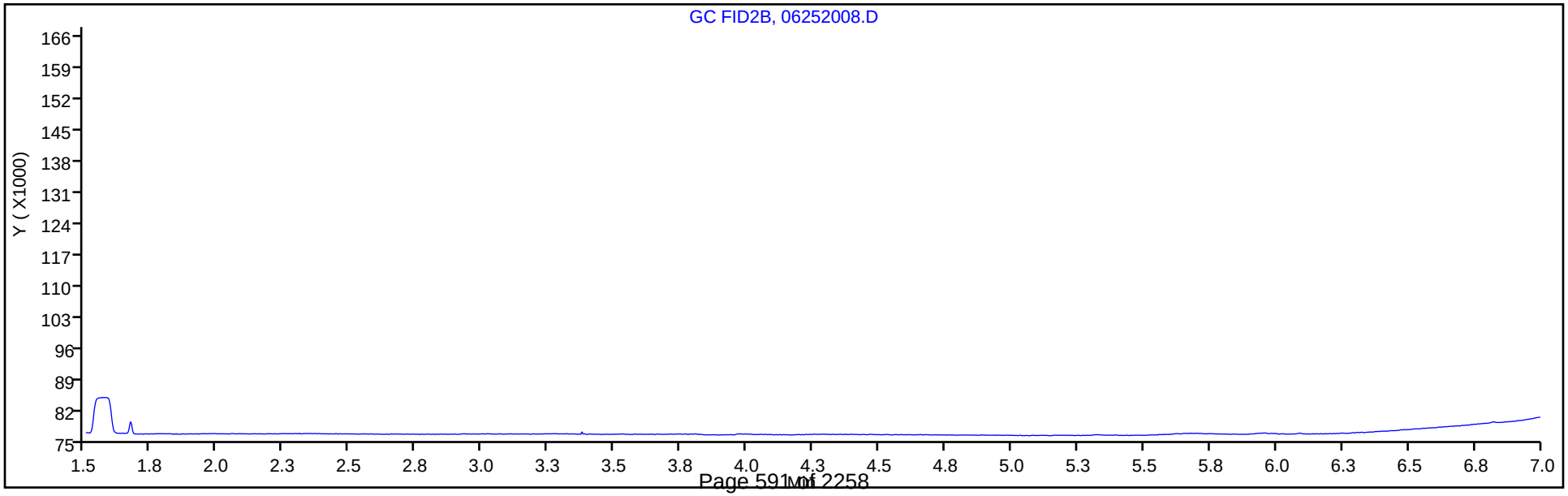
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252008.D

Injection Date:	25-Jun-2020 13:06:42	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	280-137736-G-9	Lab Sample ID:	280-137736-9	Worklist Smp#:	8
Client ID:	PZ019-20A				
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: PZ020-20A Lab Sample ID: 280-137736-10

Matrix: Water Lab File ID: 06252019.D

Analysis Method: RSK-175 Date Collected: 06/15/2020 15:40

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 15:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.0020	U	0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252019.D
Lims ID: 280-137736-G-10
Client ID: PZ020-20A
Sample Type: Client
Inject. Date: 25-Jun-2020 15:21:51 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: 280-137736-G-10
Misc. Info.: 280-0092746-019
Operator ID: gm Instrument ID: VGC_J

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 08:35:32 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

First Level Reviewer: meierg Date: 25-Jun-2020 20:02:07

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 1,1,1-Trifluoroethane						
1		4.098			ND	
2		5.458				
2 Methane						
1		1.182			ND	
2		1.591				
3 Ethane						
1		1.470			ND	
2		2.766				
4 Ethylene						
1		1.787			ND	
2		2.382				
5 Propane						
1		2.692			ND	
2		4.616				
6 Acetylene						
1		4.225			ND	
2		2.497				
7 Butane						
1		4.550			ND	
2		6.086				
8 isobutylene						
1		5.382			ND	
2		5.927				

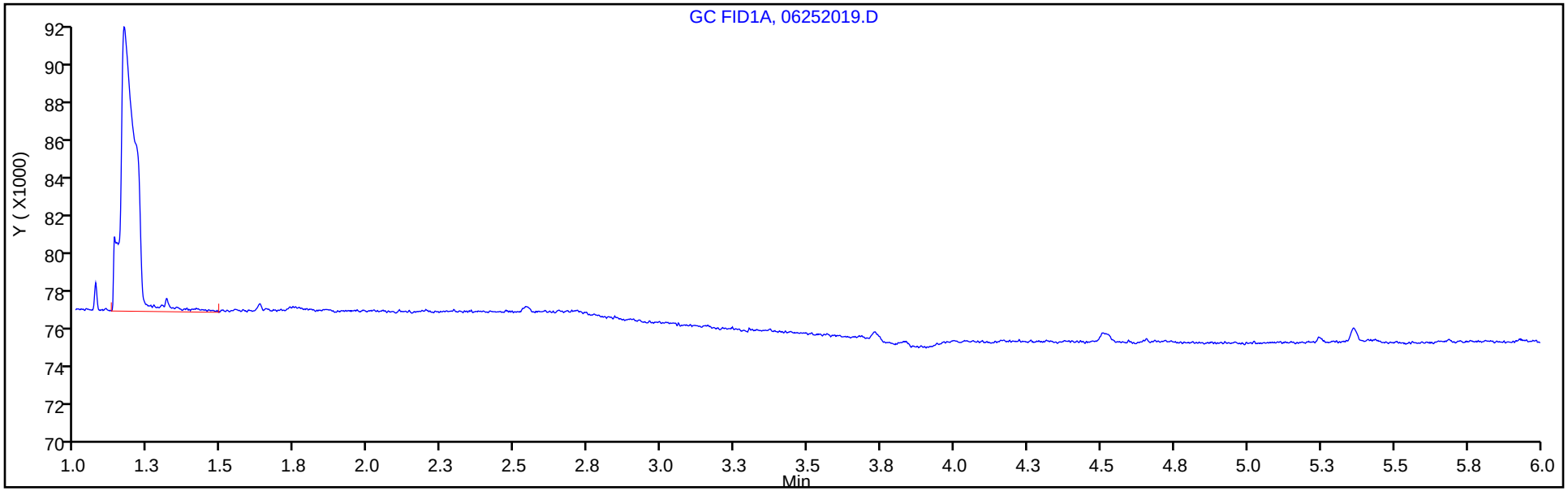
Report Date: 26-Jun-2020 08:35:33 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

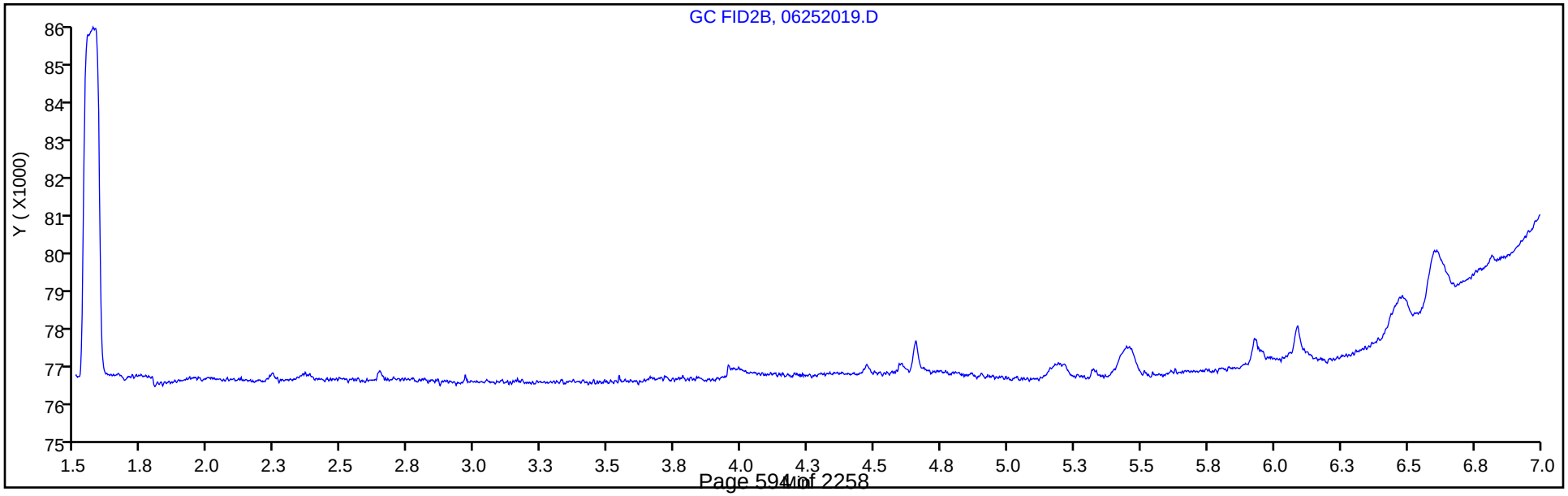
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252019.D

Injection Date:	25-Jun-2020 15:21:51	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	280-137736-G-10	Lab Sample ID:	280-137736-10	Worklist Smp#:	19
Client ID:	PZ020-20A				
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0087-20A Lab Sample ID: 280-137736-11

Matrix: Water Lab File ID: 06252021.D

Analysis Method: RSK-175 Date Collected: 06/15/2020 16:40

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 15:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.0020	U	0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252021.D				
Lims ID:	280-137736-I-11				
Client ID:	G0087-20A				
Sample Type:	Client				
Inject. Date:	25-Jun-2020 15:46:19	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	18.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-137736-I-11				
Misc. Info.:	280-0092746-021				
Operator ID:	gm	Instrument ID:	VGC_J		
Method:	\\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m				
Limit Group:	GCV - RSK 175				
Method Label:	DV-GC-0025: Dissolved Gases in Water by RSK-175				
Last Update:	26-Jun-2020 08:35:32	Calib Date:	24-Jun-2020 11:46:32		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D				
Column 1 :	Rt-Alumina BOND/KCl (0.53 mm)		Det: GC FID1A		
Column 2 :	HP-PLOT/Q (0.53 mm)		Det: GC FID2B		
Process Host:	CTX1026				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 1,1,1-Trifluoroethane						
1		4.098			ND	
2		5.458				
2 Methane						
1		1.182			ND	
2		1.591				
3 Ethane						
1		1.470			ND	
2		2.766				
4 Ethylene						
1		1.787			ND	
2		2.382				
5 Propane						
1		2.692			ND	
2		4.616				
6 Acetylene						
1		4.225			ND	
2		2.497				
7 Butane						
1		4.550			ND	
2		6.086				
8 isobutylene						
1		5.382			ND	
2		5.927				

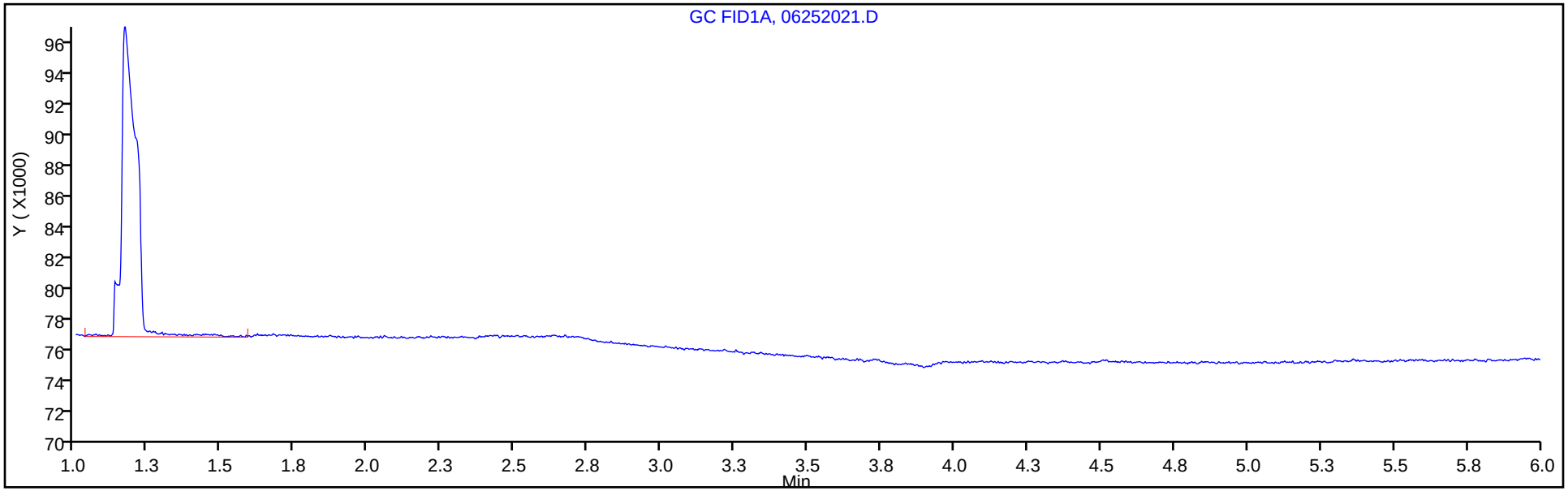
Report Date: 26-Jun-2020 08:35:34 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

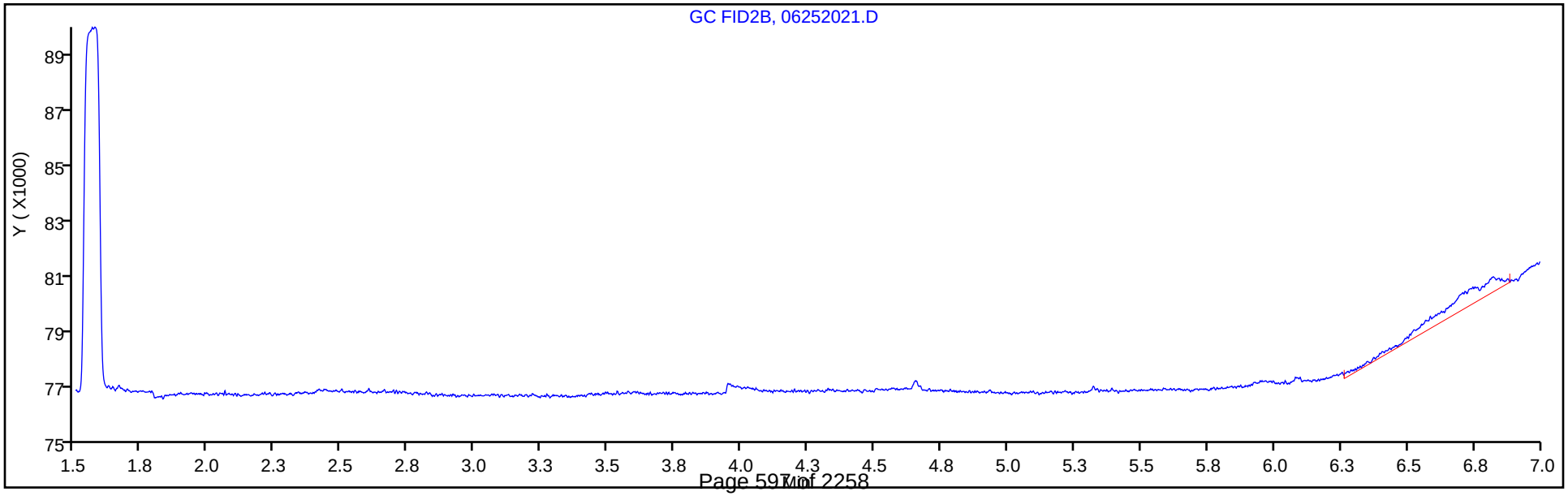
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252021.D

Injection Date:	25-Jun-2020 15:46:19	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	280-137736-I-11	Lab Sample ID:	280-137736-11	Worklist Smp#:	21
Client ID:	G0087-20A				
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0088-20A Lab Sample ID: 280-137736-12

Matrix: Water Lab File ID: 06252022.D

Analysis Method: RSK-175 Date Collected: 06/15/2020 13:40

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 15:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.0029	J	0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252022.D
Lims ID: 280-137736-I-12
Client ID: G0088-20A
Sample Type: Client
Inject. Date: 25-Jun-2020 15:58:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: 280-137736-I-12
Misc. Info.: 280-0092746-022
Operator ID: gm Instrument ID: VGC_J

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 08:35:32 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 1,1,1-Trifluoroethane						
1		4.098			ND	
2		5.458				
2 Methane						
1	1.167	1.182	-0.015	393748	2.92	
2	1.571	1.591	-0.020	340960	2.89	
					RPD = 1.29	
3 Ethane						
1		1.470			ND	
2		2.766				
4 Ethylene						
1		1.787			ND	
2		2.382				
5 Propane						
1		2.692			ND	
2		4.616				
6 Acetylene						
1		4.225			ND	
2		2.497				
7 Butane						
1		4.550			ND	
2		6.086				
8 isobutylene						
1		5.382			ND	
2		5.927				

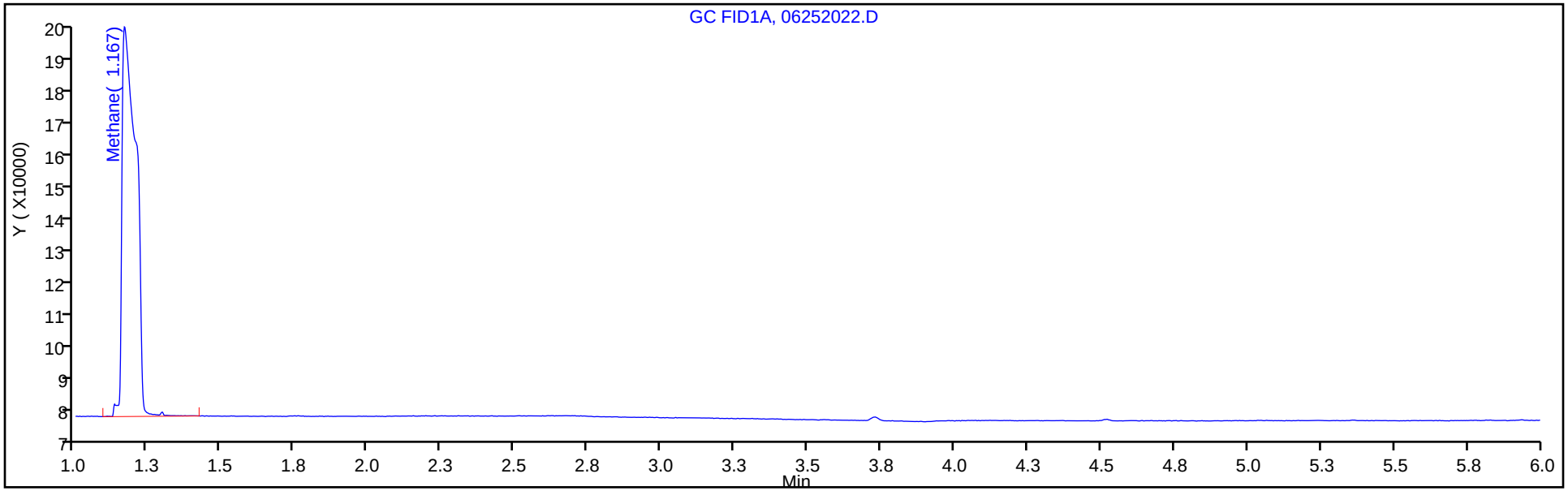
Report Date: 26-Jun-2020 08:35:34 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

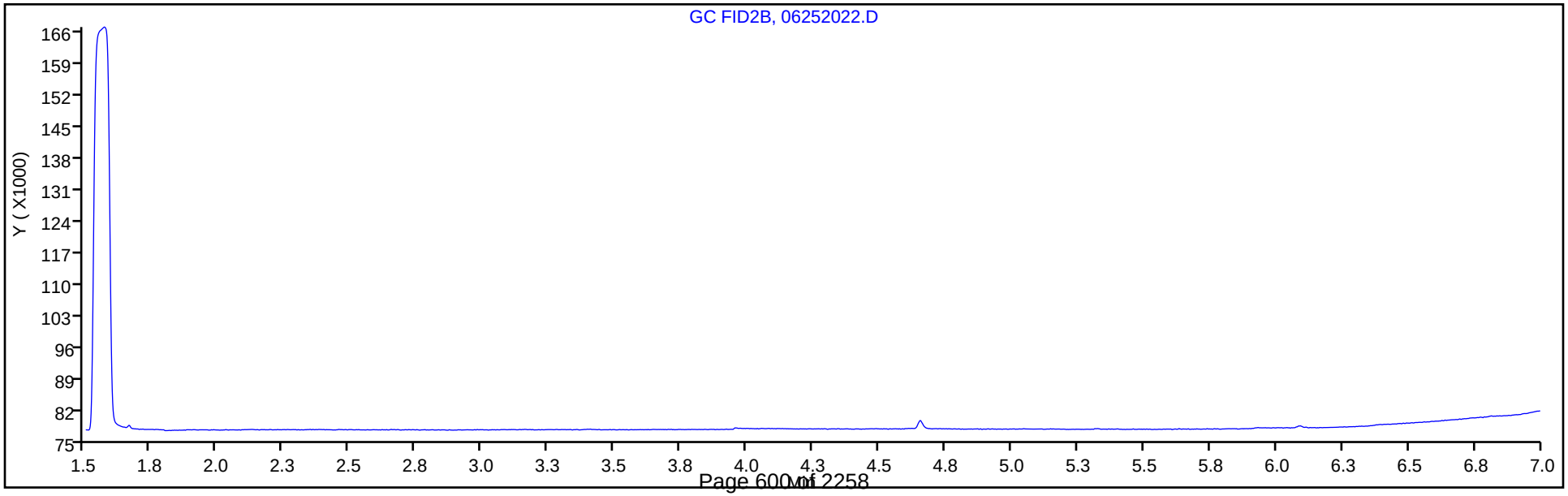
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252022.D

Injection Date:	25-Jun-2020 15:58:30	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	280-137736-I-12	Lab Sample ID:	280-137736-12	Worklist Smp#:	22
Client ID:	G0088-20A				
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0089-20A Lab Sample ID: 280-137736-13

Matrix: Water Lab File ID: 06252023.D

Analysis Method: RSK-175 Date Collected: 06/15/2020 15:20

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 16:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	3.4		0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252023.D
Lims ID: 280-137736-G-13
Client ID: G0089-20A
Sample Type: Client
Inject. Date: 25-Jun-2020 16:10:45 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: 280-137736-G-13
Misc. Info.: 280-0092746-023
Operator ID: gm Instrument ID: VGC_J

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 08:35:32 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 1,1,1-Trifluoroethane						
1		4.098			ND	
2		5.458				
2 Methane						
1	1.169	1.182	-0.013	416007877	3523.2	
2	1.567	1.591	-0.024	362496665	3365.3	
					RPD = 4.59	
3 Ethane						
1		1.470			ND	
2		2.766				
4 Ethylene						
1		1.787			ND	
2		2.382				
5 Propane						
1		2.692			ND	
2		4.616				
6 Acetylene						
1		4.225			ND	
2		2.497				
7 Butane						
1		4.550			ND	
2		6.086				
8 isobutylene						
1		5.382			ND	
2		5.927				

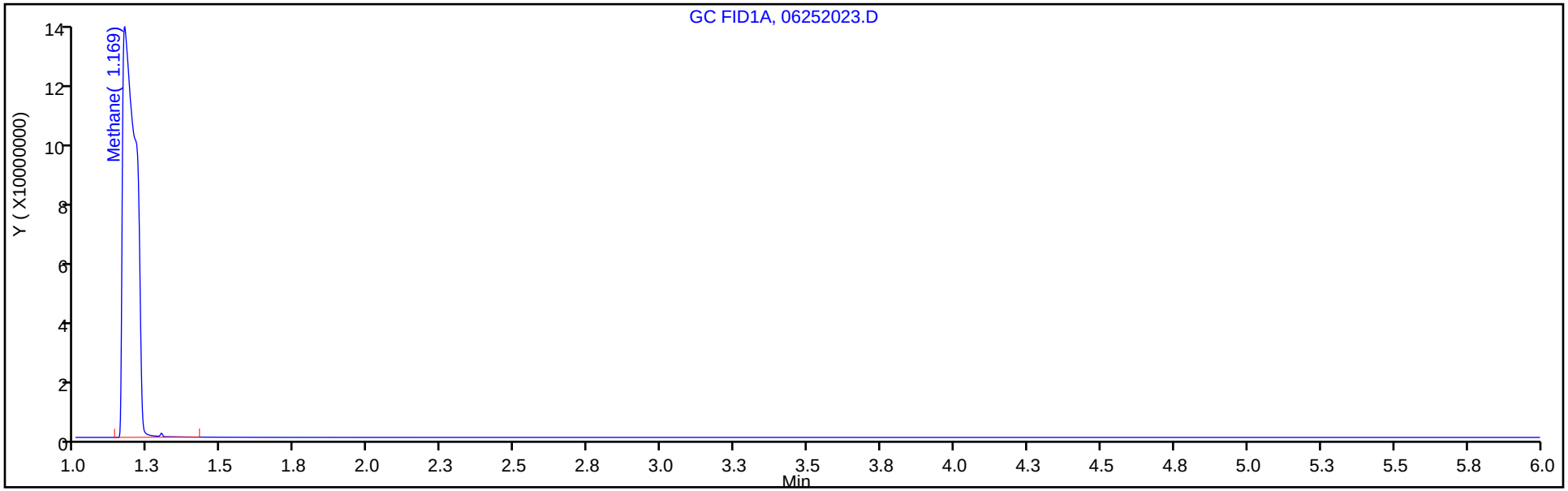
Report Date: 26-Jun-2020 08:35:34 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

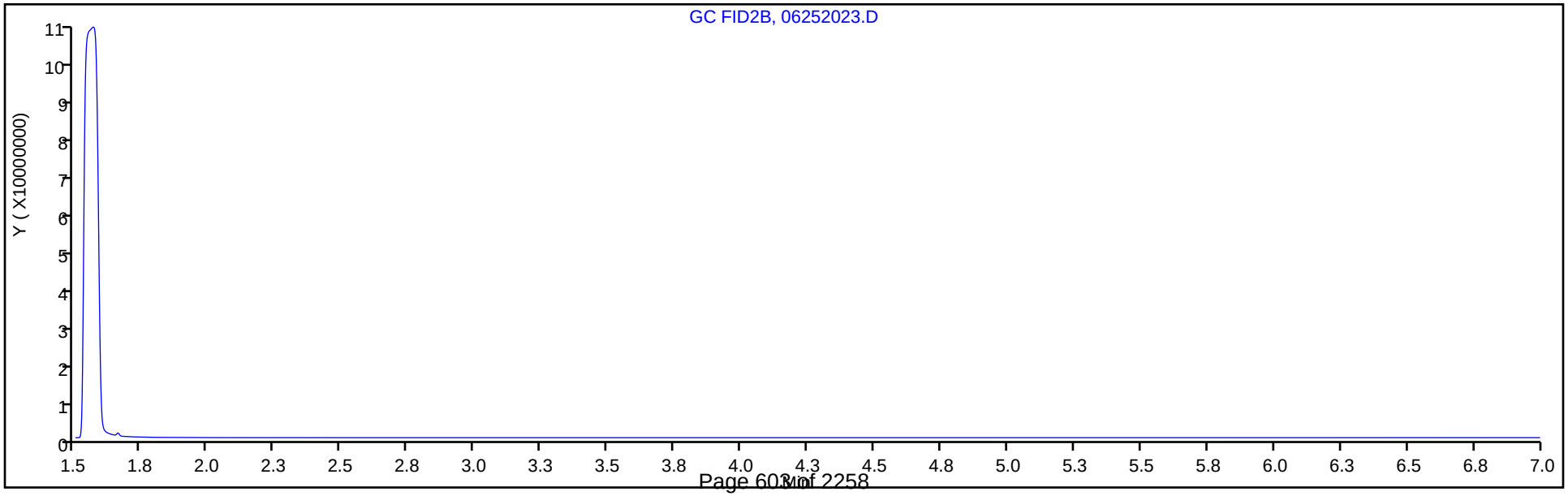
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252023.D

Injection Date:	25-Jun-2020 16:10:45	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	280-137736-G-13	Lab Sample ID:	280-137736-13	Worklist Smp#:	23
Client ID:	G0089-20A				
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0077-20A Lab Sample ID: 280-137736-14

Matrix: Water Lab File ID: 06252024.D

Analysis Method: RSK-175 Date Collected: 06/15/2020 13:20

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 16:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.0020	U	0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252024.D				
Lims ID:	280-137736-G-14				
Client ID:	G0077-20A				
Sample Type:	Client				
Inject. Date:	25-Jun-2020 16:22:57	ALS Bottle#:	24	Worklist Smp#:	24
Purge Vol:	18.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-137736-G-14				
Misc. Info.:	280-0092746-024				
Operator ID:	gm	Instrument ID:	VGC_J		
Method:	\\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m				
Limit Group:	GCV - RSK 175				
Method Label:	DV-GC-0025: Dissolved Gases in Water by RSK-175				
Last Update:	26-Jun-2020 08:35:32	Calib Date:	24-Jun-2020 11:46:32		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D				
Column 1 :	Rt-Alumina BOND/KCl (0.53 mm)		Det: GC FID1A		
Column 2 :	HP-PLOT/Q (0.53 mm)		Det: GC FID2B		
Process Host:	CTX1026				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 1,1,1-Trifluoroethane						
1		4.098			ND	
2		5.458				
2 Methane						
1		1.182			ND	
2		1.591				
3 Ethane						
1		1.470			ND	
2		2.766				
4 Ethylene						
1		1.787			ND	
2		2.382				
5 Propane						
1		2.692			ND	
2		4.616				
6 Acetylene						
1		4.225			ND	
2		2.497				
7 Butane						
1		4.550			ND	
2		6.086				
8 isobutylene						
1		5.382			ND	
2		5.927				

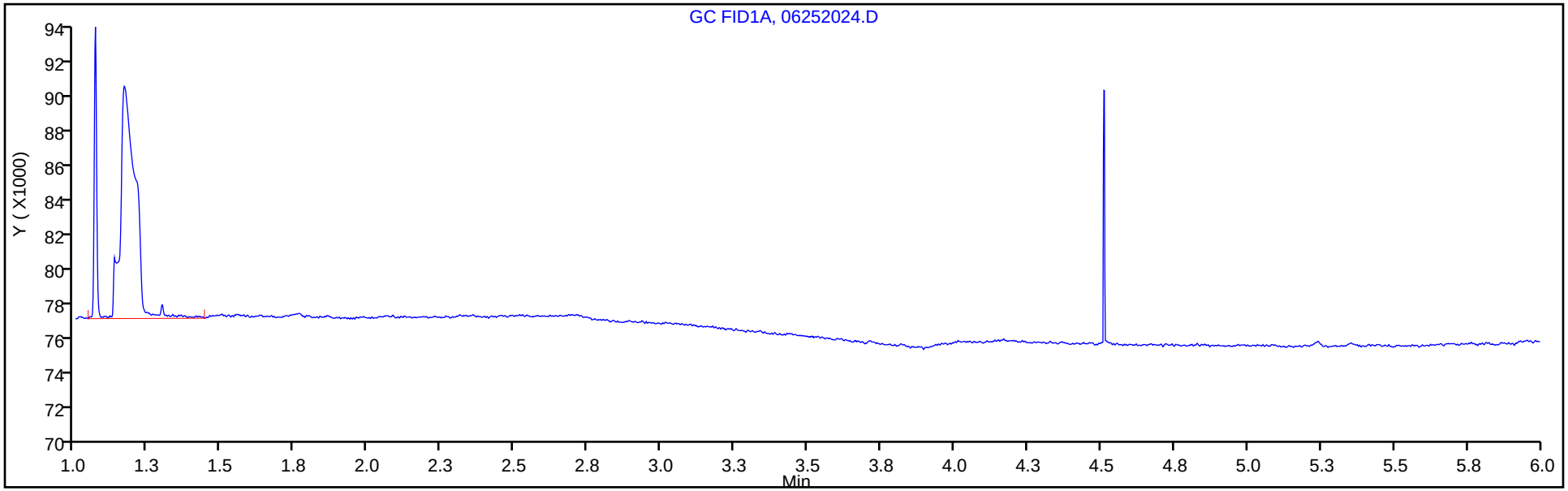
Report Date: 26-Jun-2020 08:35:35 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

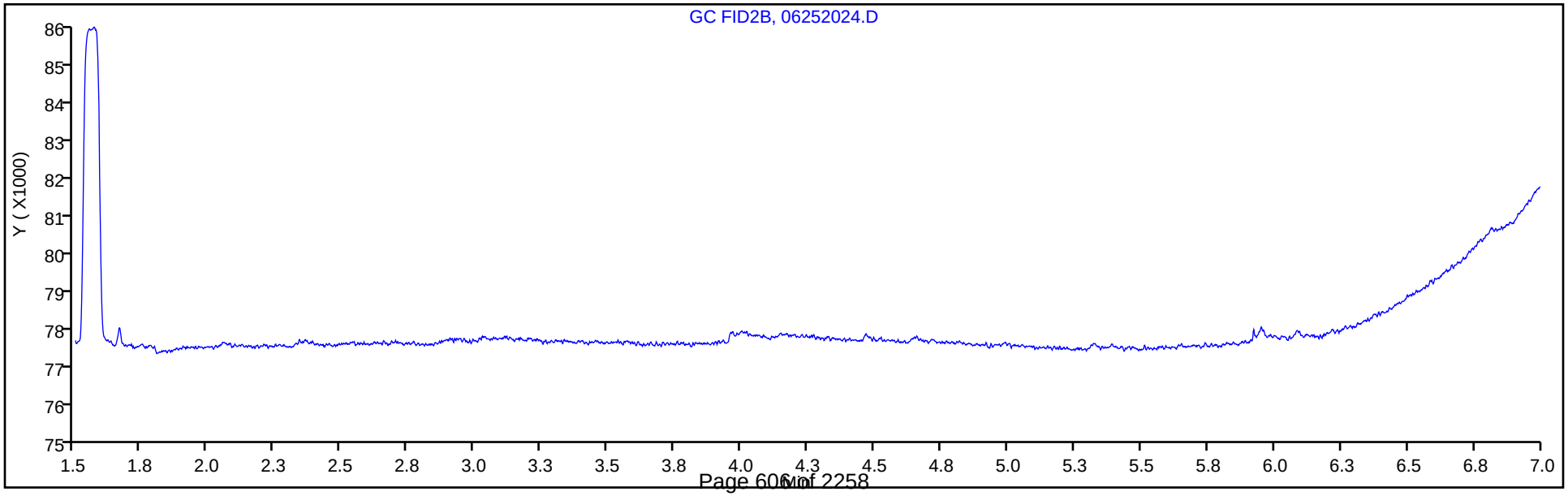
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252024.D

Injection Date:	25-Jun-2020 16:22:57	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	280-137736-G-14	Lab Sample ID:	280-137736-14	Worklist Smp#:	24
Client ID:	G0077-20A				
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0078-20A Lab Sample ID: 280-137736-15

Matrix: Water Lab File ID: 06252025.D

Analysis Method: RSK-175 Date Collected: 06/15/2020 14:30

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 16:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.13		0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252025.D
Lims ID: 280-137736-H-15
Client ID: G0078-20A
Sample Type: Client
Inject. Date: 25-Jun-2020 16:35:10 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: 280-137736-H-15
Misc. Info.: 280-0092746-025
Operator ID: gm Instrument ID: VGC_J

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 08:35:32 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 1,1,1-Trifluoroethane						
1		4.098			ND	
2		5.458				
2 Methane						
1	1.171	1.182	-0.011	16343746	138.0	
2	1.573	1.591	-0.018	14299468	132.5	
					RPD = 4.10	
3 Ethane						
1		1.470			ND	
2		2.766				
4 Ethylene						
1		1.787			ND	
2		2.382				
5 Propane						
1		2.692			ND	
2		4.616				
6 Acetylene						
1		4.225			ND	
2		2.497				
7 Butane						
1		4.550			ND	
2		6.086				
8 isobutylene						
1		5.382			ND	
2		5.927				

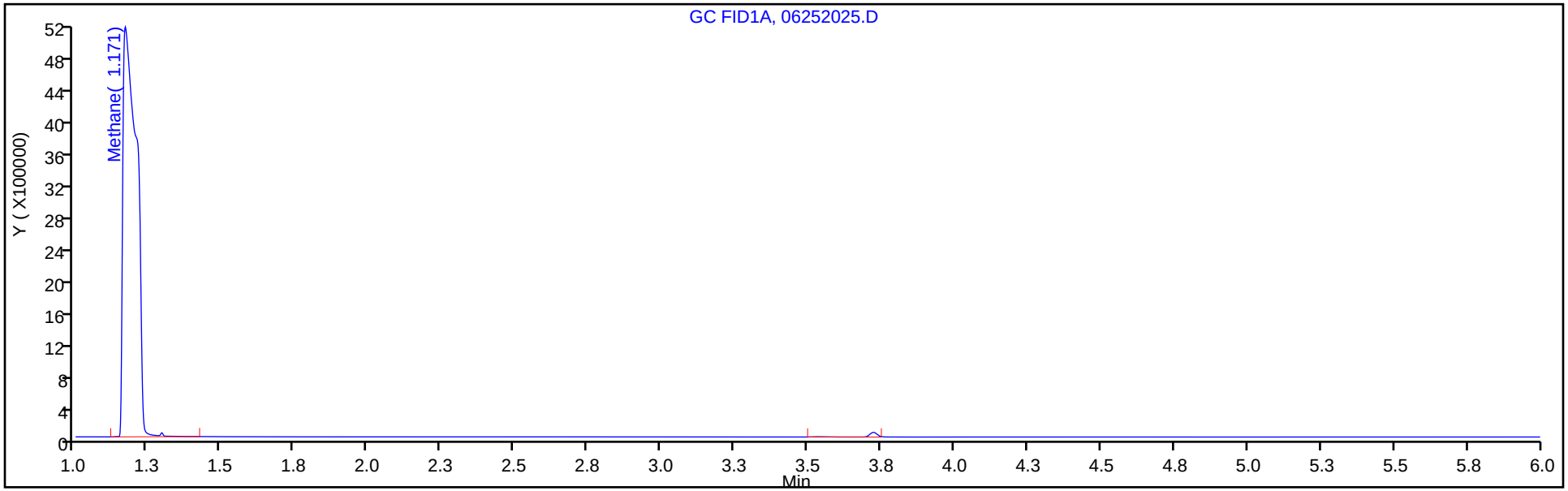
Report Date: 26-Jun-2020 08:35:35 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

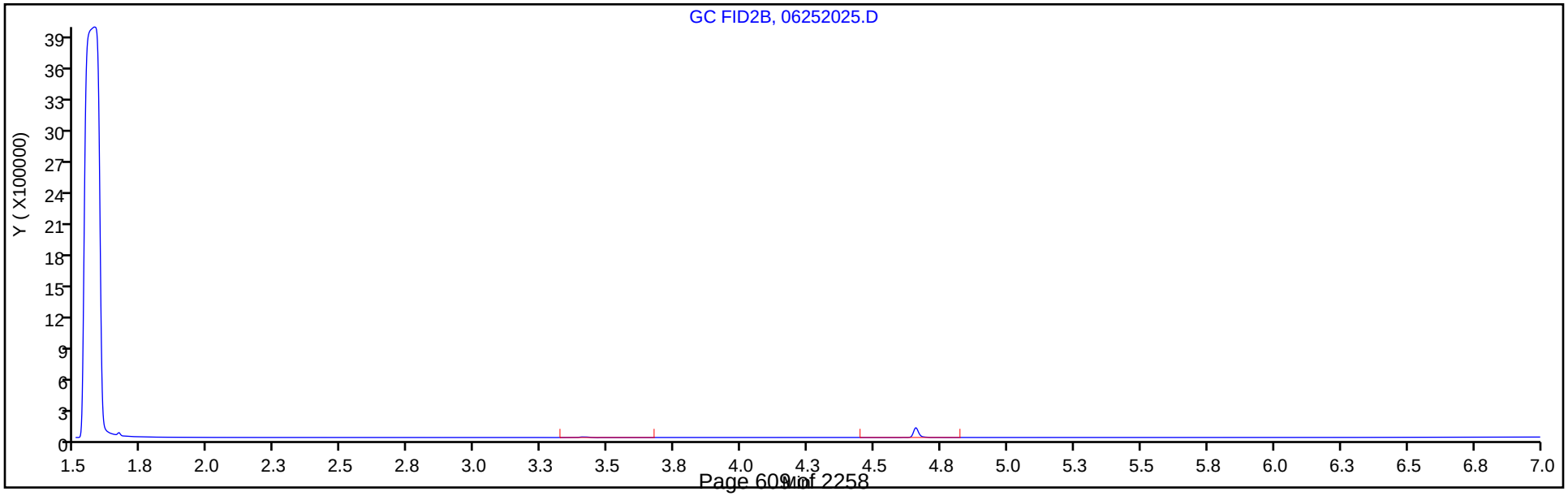
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252025.D

Injection Date:	25-Jun-2020 16:35:10	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	280-137736-H-15	Lab Sample ID:	280-137736-15	Worklist Smp#:	25
Client ID:	G0078-20A				
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0093-20A Lab Sample ID: 280-137736-16

Matrix: Water Lab File ID: 06252026.D

Analysis Method: RSK-175 Date Collected: 06/16/2020 08:25

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 16:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	5.8		0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252026.D
Lims ID: 280-137736-H-16
Client ID: G0093-20A
Sample Type: Client
Inject. Date: 25-Jun-2020 16:47:21 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: 280-137736-H-16
Misc. Info.: 280-0092746-026
Operator ID: gm Instrument ID: VGC_J

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 08:35:32 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 1,1,1-Trifluoroethane						
1		4.098			ND	
2		5.458				
2 Methane						
1	1.166	1.182	-0.016	711490231	6026.0	
2	1.564	1.591	-0.027	625243636	5804.8	
					RPD = 3.74	
3 Ethane						
1		1.470			ND	
2		2.766				
4 Ethylene						
1		1.787			ND	
2		2.382				
5 Propane						
1		2.692			ND	
2		4.616				
6 Acetylene						
1		4.225			ND	
2		2.497				
7 Butane						
1		4.550			ND	
2		6.086				
8 isobutylene						
1		5.382			ND	
2		5.927				

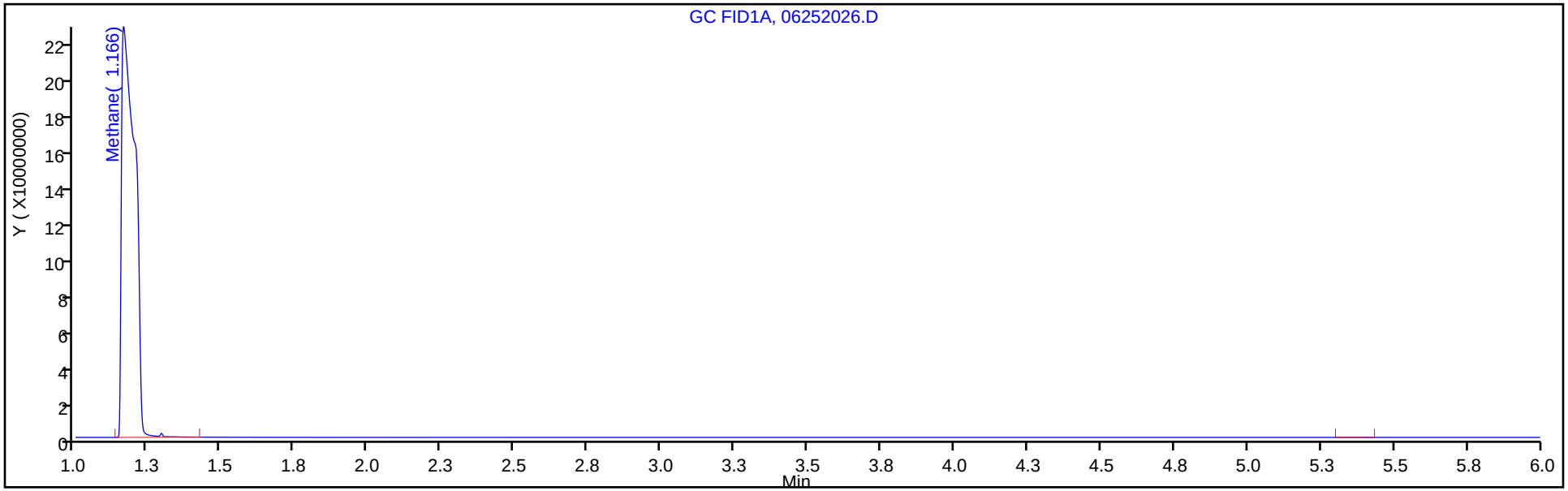
Report Date: 26-Jun-2020 08:35:36 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

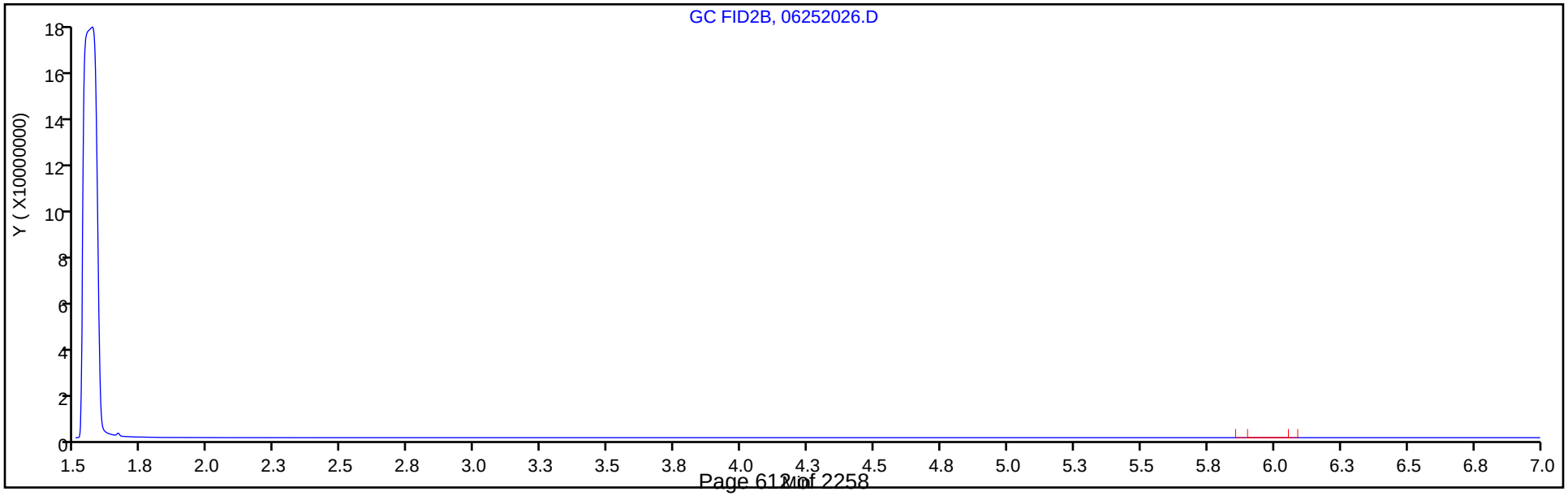
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252026.D

Injection Date:	25-Jun-2020 16:47:21	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	280-137736-H-16	Lab Sample ID:	280-137736-16	Worklist Smp#:	26
Client ID:	G0093-20A				
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0086-20A Lab Sample ID: 280-137736-17

Matrix: Water Lab File ID: 06252027.D

Analysis Method: RSK-175 Date Collected: 06/16/2020 08:15

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 16:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.022		0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252027.D
Lims ID: 280-137736-G-17
Client ID: G0086-20A
Sample Type: Client
Inject. Date: 25-Jun-2020 16:59:33 ALS Bottle#: 27 Worklist Smp#: 27
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: 280-137736-G-17
Misc. Info.: 280-0092746-027
Operator ID: gm Instrument ID: VGC_J

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 08:35:32 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
$ 1 1,1,1-Trifluoroethane						
1		4.098			ND	
2		5.458				
2 Methane						
1	1.168	1.182	-0.014	2741952	22.8	
2	1.570	1.591	-0.021	2411644	22.1	
					RPD = 3.13	
3 Ethane						
1		1.470			ND	
2		2.766				
4 Ethylene						
1		1.787			ND	
2		2.382				
5 Propane						
1		2.692			ND	
2		4.616				
6 Acetylene						
1		4.225			ND	
2		2.497				
7 Butane						
1		4.550			ND	
2		6.086				
8 isobutylene						
1		5.382			ND	
2		5.927				

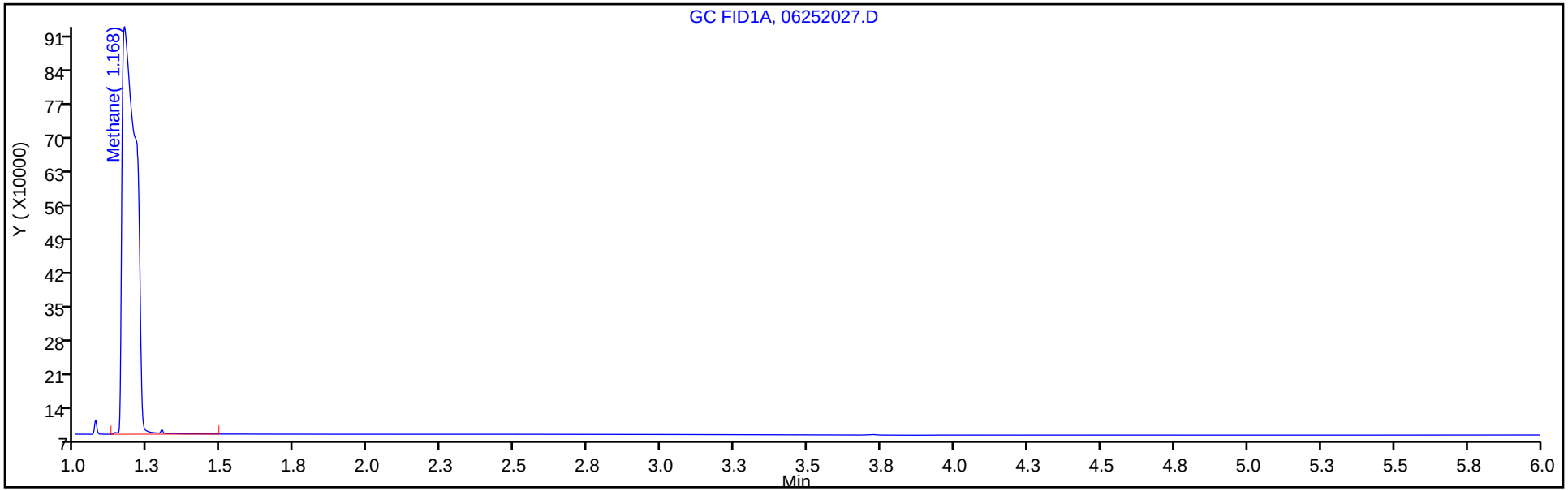
Report Date: 26-Jun-2020 08:35:36 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

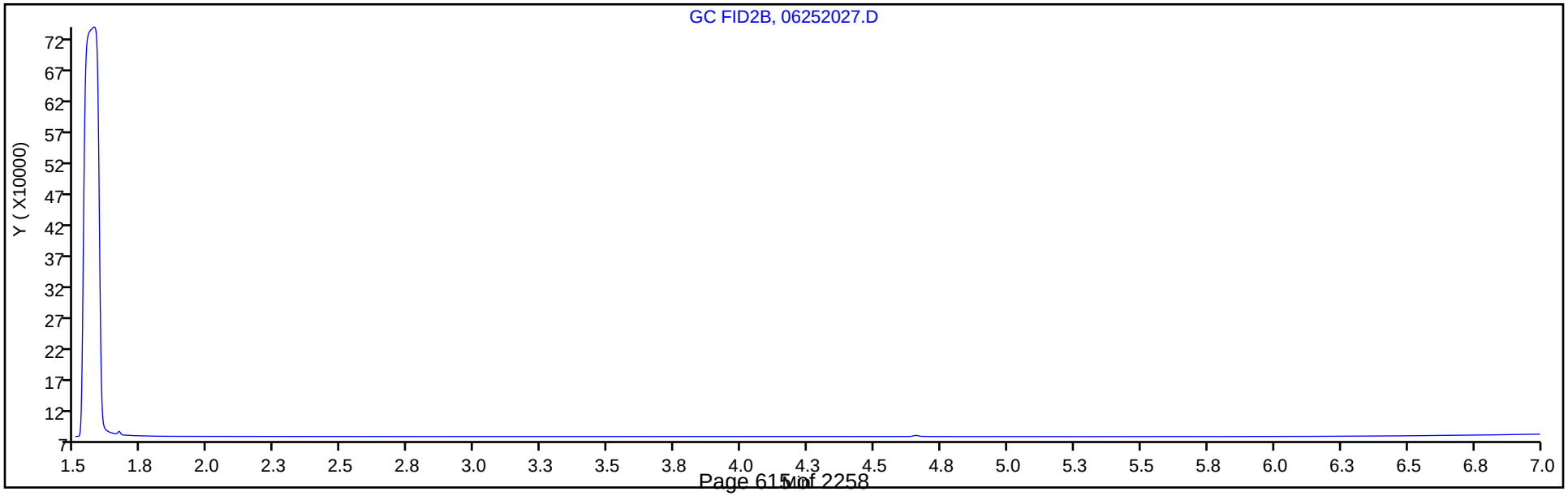
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252027.D

Injection Date:	25-Jun-2020 16:59:33	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	280-137736-G-17	Lab Sample ID:	280-137736-17	Worklist Smp#:	27
Client ID:	G0086-20A				
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 499937

SDG No.:

Instrument ID: VGC_J GC Column: Rt-Alumina ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/24/2020 10:08 Calibration End Date: 06/24/2020 11:46 Calibration ID: 45322

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-499937/1	06242001.D
Level 2	IC 280-499937/2	06242002.D
Level 3	IC 280-499937/3	06242003.D
Level 4	ICRT 280-499937/4	06242004.D
Level 5	IC 280-499937/5	06242005.D
Level 6	IC 280-499937/6	06242006.D
Level 7	IC 280-499937/7	06242007.D
Level 8	IC 280-499937/8	06242008.D
Level 9	IC 280-499937/9	06242009.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
Methane	1.174	1.173	1.175	1.172	1.172	1.168	1.172	1.169	1.163		1.132 - 1.212	1.171
Ethane	1.462	1.463	1.460	1.457	1.462	1.458					1.412 - 1.512	1.460
Ethylene	1.781	1.778	1.782	1.779	1.779	1.771					1.729 - 1.829	1.778
Acetylene	4.272	4.269	4.262	4.244	4.234	4.216					4.154 - 4.314	4.250

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 499937

SDG No.:

Instrument ID: VGC_J GC Column: Rt-Alumina ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/24/2020 10:08 Calibration End Date: 06/24/2020 11:46 Calibration ID: 45322

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-499937/1	06242001.D
Level 2	IC 280-499937/2	06242002.D
Level 3	IC 280-499937/3	06242003.D
Level 4	ICRT 280-499937/4	06242004.D
Level 5	IC 280-499937/5	06242005.D
Level 6	IC 280-499937/6	06242006.D
Level 7	IC 280-499937/7	06242007.D
Level 8	IC 280-499937/8	06242008.D
Level 9	IC 280-499937/9	06242009.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 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Methane	170762 119639 105834	144481 119186	132564 115371	124543 114737	Lin2	48685.2680	118061.221							0.9970		0.9900
Ethane	105903 112915	109698 115182	123636	120380	Ave		114619.149				5.8		20.0			
Ethylene	85223 93883	88022 91460	96848	95242	Ave		91779.7559				4.9		20.0			
Acetylene	22999 26292	25177 26445	27007	27739	Ave		25942.9894				6.4		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 499937

SDG No.:

Instrument ID: VGC_J GC Column: Rt-Alumina ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/24/2020 10:08 Calibration End Date: 06/24/2020 11:46 Calibration ID: 45322

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-499937/1	06242001.D
Level 2	IC 280-499937/2	06242002.D
Level 3	IC 280-499937/3	06242003.D
Level 4	ICRT 280-499937/4	06242004.D
Level 5	IC 280-499937/5	06242005.D
Level 6	IC 280-499937/6	06242006.D
Level 7	IC 280-499937/7	06242007.D
Level 8	IC 280-499937/8	06242008.D
Level 9	IC 280-499937/9	06242009.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Methane	Lin2	155827 34804015	263689 208468313	1935518 829291020	9092065 2294825441	17468122	0.913 292	1.83 1807	14.6 7228	73.0 21683	146
Ethane	Ave	181168 63053378	375320	3384056	16474689	30906100	1.71 547	3.42	27.4	137	274
Ethylene	Ave	136002 46705608	280938	2472852	12159201	23971500	1.60 511	3.19	25.5	128	255
Acetylene	Ave	34073 12537110	74600	640190	3287680	6232354	1.48 474	2.96	23.7	119	237

Curve Type Legend:

Ave = Average
Lin2 = Linear 1/conc^2

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242001.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 24-Jun-2020 10:08:41 ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: IC L1
Misc. Info.: 280-0092709-001
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 24-Jun-2020 12:39:57 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1017

First Level Reviewer: meierg Date: 24-Jun-2020 10:23:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.174	1.172	0.002	155827	0.9125	0.9075	
2	1.578	1.577	0.001	127907	0.9125	0.9072	
						RPD = 0.03	
3 Ethane							
1	1.462	1.462	0.000	181168	1.71	1.58	
2	2.754	2.756	-0.002	152683	1.71	1.57	
						RPD = 0.50	
4 Ethylene							M
1	1.781	1.779	0.002	136002	1.60	1.48	
2	2.369	2.372	-0.003	107572	1.60	1.47	M
						RPD = 0.62	
5 Propane							
1	2.692	2.676	0.016	276461	2.51	2.34	
2	4.616	4.609	0.007	230434	2.51	2.30	
						RPD = 1.64	
6 Acetylene							Ma
1	4.272	4.234	0.038	34073	1.48	1.31	M
2	2.486	2.486	0.000	46871	1.48	1.37	M
						RPD = 3.88	
7 Butane							Ma
1	4.581	4.541	0.040	302314	3.31	3.44	M
2	6.089	6.076	0.013	280641	3.31	3.45	M
						RPD = 0.36	
8 isobutylene							
1	5.414	5.381	0.033	210574	3.19	2.94	
2	5.929	5.921	0.008	184181	3.19	2.94	
						RPD = 0.10	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031 Amount Added: 2.50 Units: uL

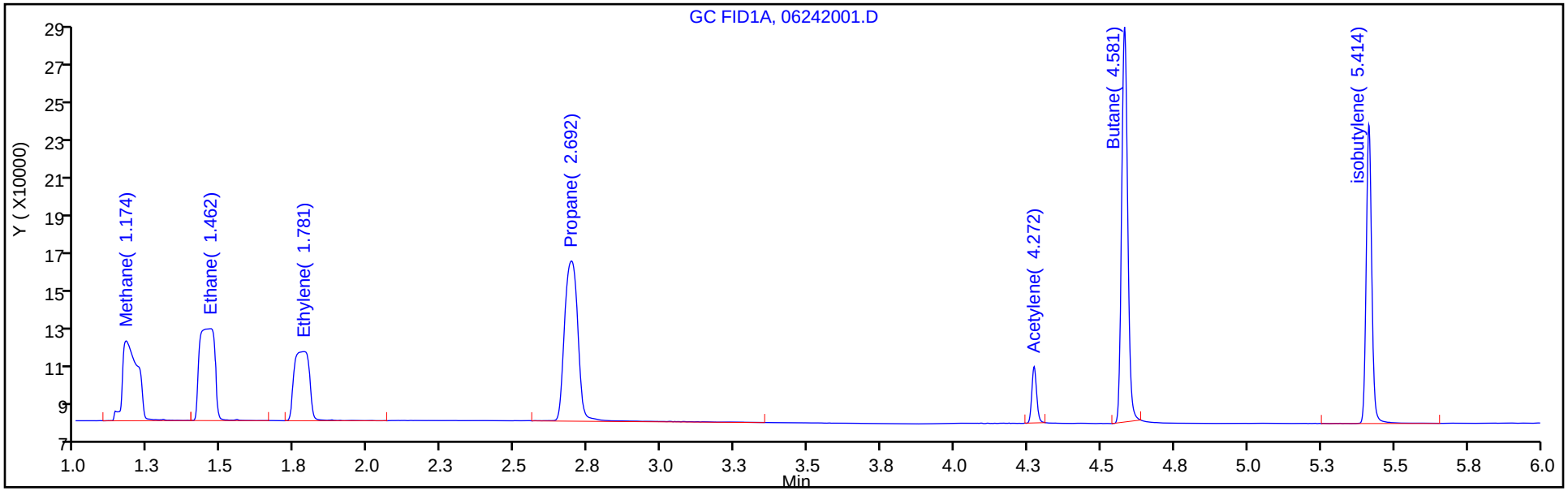
Report Date: 24-Jun-2020 12:39:58 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

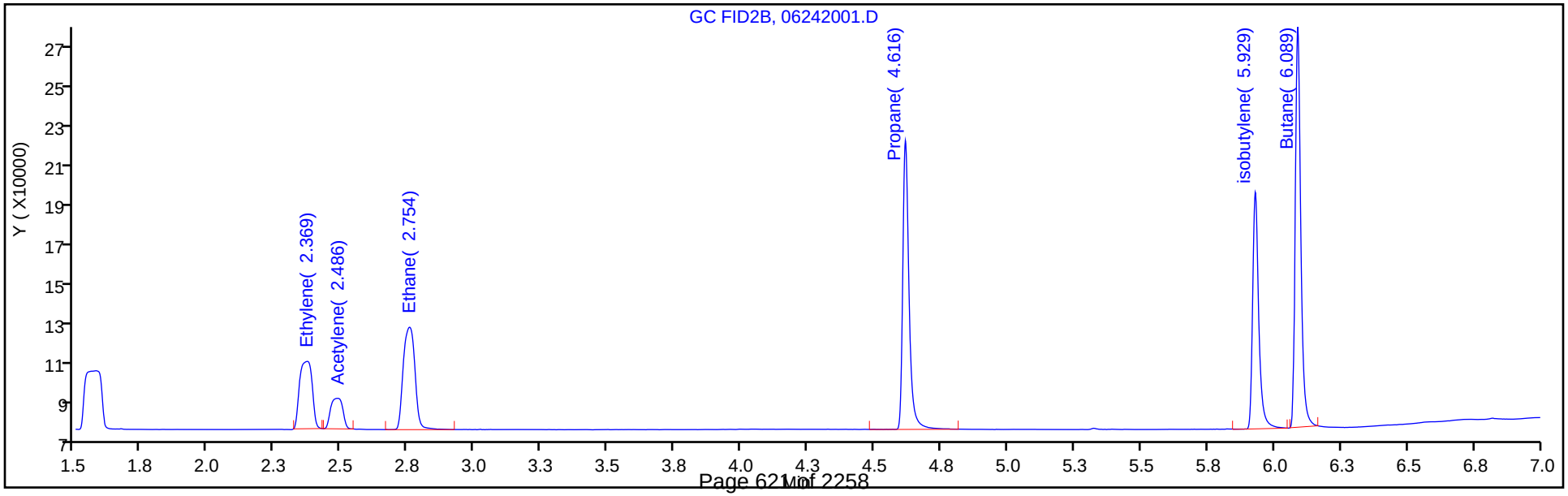
Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242001.D

Injection Date:	24-Jun-2020 10:08:41	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	IC L1			Worklist Smp#:	1
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

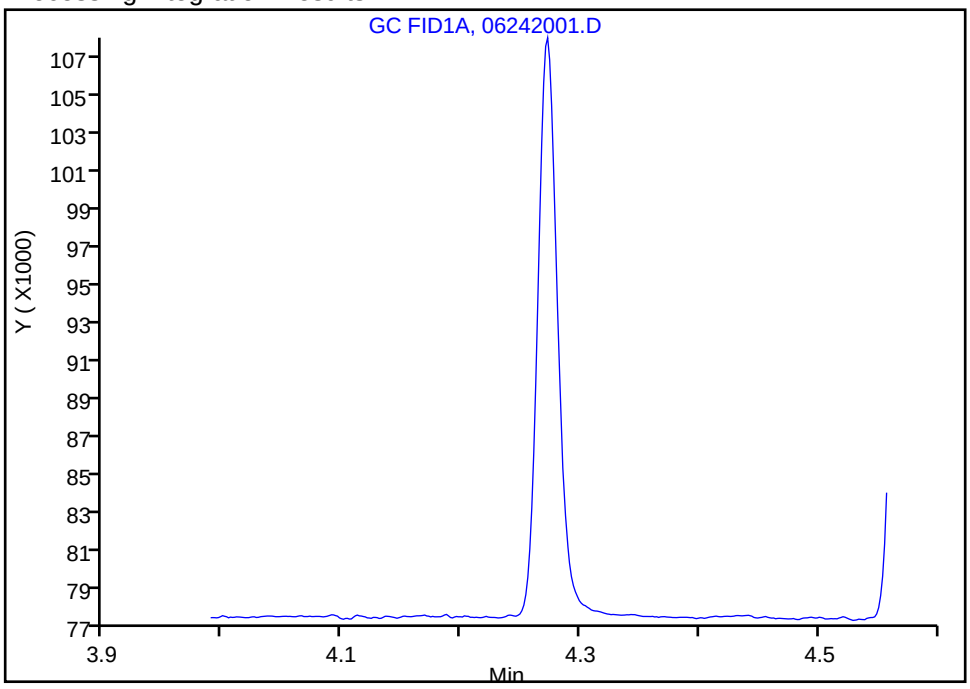
Data File:	\\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242001.D				
Injection Date:	24-Jun-2020 10:08:41	Instrument ID:	VGC_J		
Lims ID:	IC L1				
Client ID:					
Operator ID:	gm	ALS Bottle#:	1	Worklist Smp#:	1
Purge Vol:	18.000 mL	Dil. Factor:	1.0000		
Method:	RSK_J	Limit Group:	GCV - RSK 175		
Column:	Rt-Alumina BOND/KCl (0.53 mm)	Detector	GC FID1A		

6 Acetylene, CAS: 74-86-2

Signal: 1

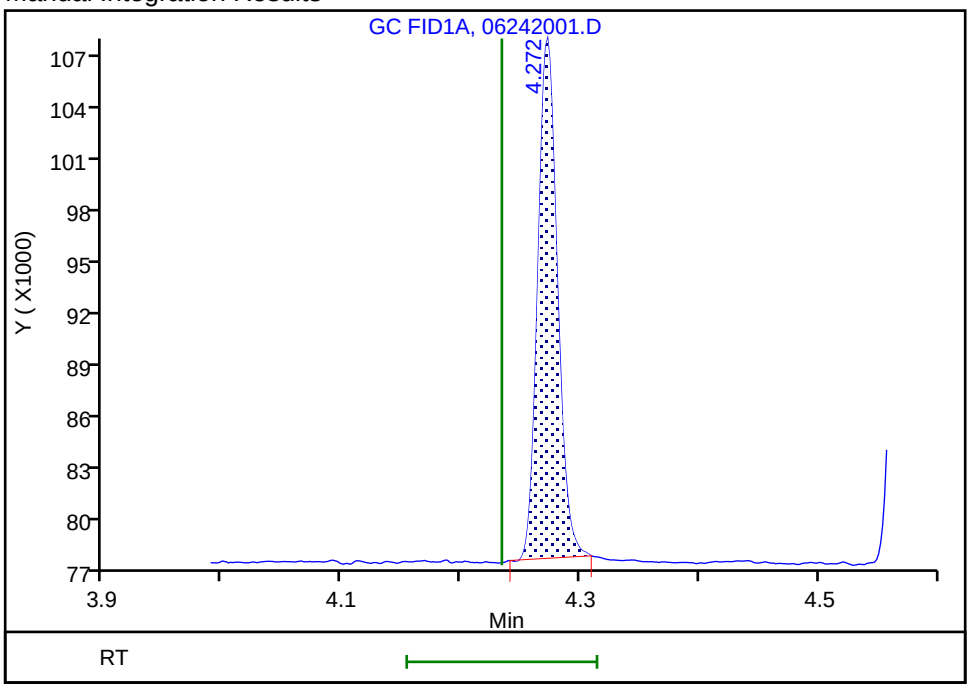
Processing Integration Results

RT: 4.24
Area: 0
Amount: 1.272887
Amount Units: ug/l



Manual Integration Results

RT: 4.27
Area: 34073
Amount: 1.313380
Amount Units: ug/l



Reviewer: meierg, 24-Jun-2020 11:04:01

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Peak not integrated

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242002.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 24-Jun-2020 10:20:49 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: IC L2
Misc. Info.: 280-0092709-002
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 24-Jun-2020 12:39:58 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1017

First Level Reviewer: meierg Date: 24-Jun-2020 11:05:44

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.173	1.172	0.001	263689	1.83	1.82	
2	1.576	1.577	-0.001	226430	1.83	1.82	
						RPD = 0.04	
3 Ethane							
1	1.463	1.462	0.001	375320	3.42	3.27	
2	2.759	2.756	0.003	317897	3.42	3.27	
						RPD = 0.00	
4 Ethylene							
1	1.778	1.779	-0.001	280938	3.19	3.06	
2	2.373	2.372	0.001	225225	3.19	3.08	
						RPD = 0.72	
5 Propane							
1	2.693	2.676	0.017	552814	5.02	4.68	
2	4.619	4.609	0.010	470455	5.02	4.70	
						RPD = 0.44	
6 Acetylene							M
1	4.269	4.234	0.035	74600	2.96	2.88	
2	2.486	2.486	0.000	96395	2.96	2.81	M
						RPD = 2.38	
7 Butane							Ma
1	4.578	4.541	0.037	587119	6.61	6.04	M
2	6.089	6.076	0.013	535944	6.61	5.99	M
						RPD = 0.75	
8 isobutylene							
1	5.413	5.381	0.032	406845	6.38	5.68	
2	5.931	5.921	0.010	356829	6.38	5.69	
						RPD = 0.17	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031 Amount Added: 5.00 Units: uL

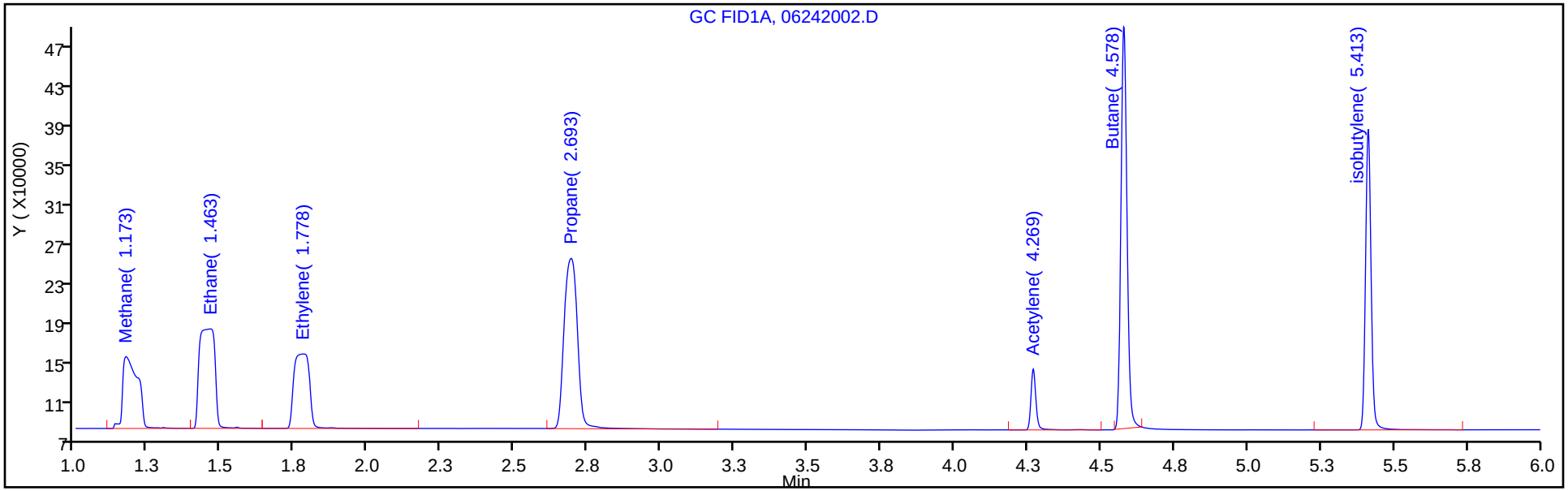
Report Date: 24-Jun-2020 12:39:58 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

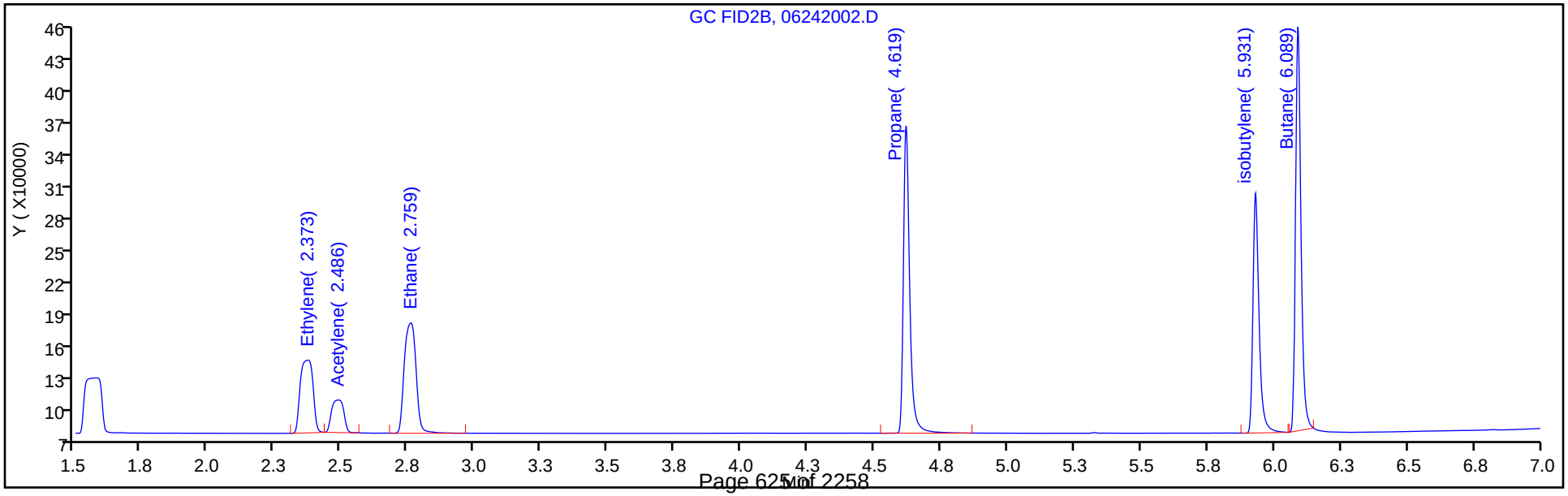
Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242002.D

Injection Date:	24-Jun-2020 10:20:49	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	IC L2			Worklist Smp#:	2
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242003.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 24-Jun-2020 10:33:02 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: IC L3
Misc. Info.: 280-0092709-003
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 24-Jun-2020 12:39:59 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1017

First Level Reviewer: meierg Date: 24-Jun-2020 11:08:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.175	1.172	0.003	1935518	14.6	16.0	
2	1.582	1.577	0.005	1760038	14.6	16.1	
						RPD = 0.49	
3 Ethane							
1	1.460	1.462	-0.002	3384056	27.4	29.5	
2	2.760	2.756	0.004	2873171	27.4	29.6	
						RPD = 0.24	
4 Ethylene							
1	1.782	1.779	0.003	2472852	25.5	26.9	
2	2.375	2.372	0.003	1992619	25.5	27.3	
						RPD = 1.23	
5 Propane							
1	2.690	2.676	0.014	5082003	40.1	43.0	
2	4.618	4.609	0.009	4318201	40.1	43.2	
						RPD = 0.29	
6 Acetylene							M
1	4.262	4.234	0.028	640190	23.7	24.7	
2	2.488	2.486	0.002	841585	23.7	24.5	M
						RPD = 0.66	
7 Butane							M
1	4.572	4.541	0.031	5935156	52.9	54.8	
2	6.088	6.076	0.012	5391164	52.9	54.3	M
						RPD = 0.94	
8 isobutylene							Ma
1	5.405	5.381	0.024	3773741	51.1	52.7	M
2	5.928	5.921	0.007	3291654	51.1	52.5	M
						RPD = 0.38	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031 Amount Added: 40.00 Units: uL

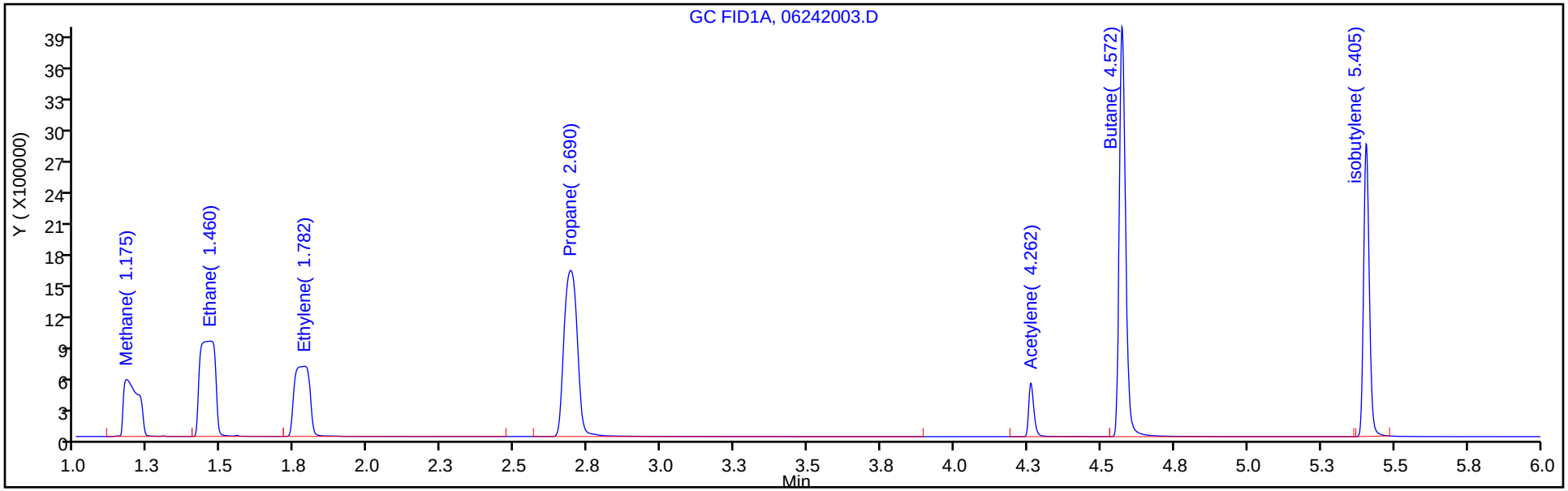
Report Date: 24-Jun-2020 12:39:59 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

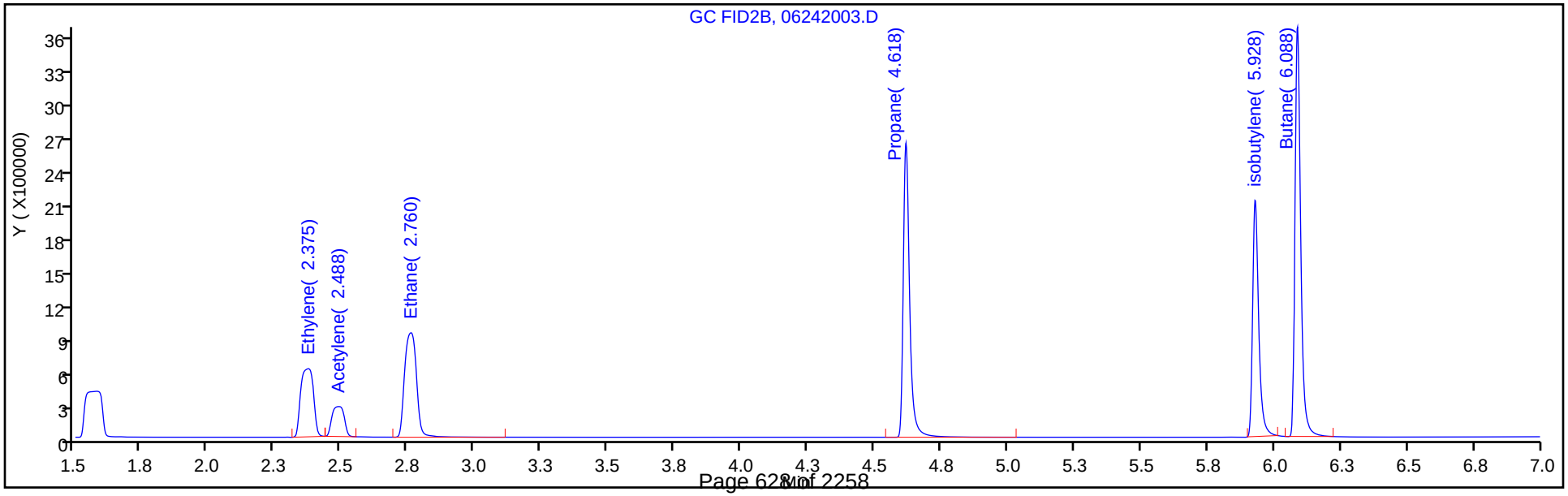
Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242003.D

Injection Date:	24-Jun-2020 10:33:02	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	IC L3			Worklist Smp#:	3
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242004.D
Lims ID: ICRT L4
Client ID:
Sample Type: ICRT Calib Level: 4
Inject. Date: 24-Jun-2020 10:45:14 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: ICRT L4
Misc. Info.: 280-0092709-004
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 24-Jun-2020 12:39:59 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1017

First Level Reviewer: meierg Date: 24-Jun-2020 11:02:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.172	1.172	0.000	9092065	73.0	76.6	
2	1.578	1.578	0.000	8241315	73.0	76.2	
						RPD = 0.48	
3 Ethane							
1	1.457	1.457	0.000	16474689	136.9	143.7	
2	2.756	2.756	0.000	13906890	136.9	143.2	
						RPD = 0.34	
4 Ethylene							
1	1.779	1.779	0.000	12159201	127.7	132.5	
2	2.373	2.373	0.000	9735448	127.7	133.3	
						RPD = 0.59	
5 Propane							
1	2.682	2.682	0.000	25071225	200.7	212.3	
2	4.614	4.614	0.000	21208455	200.7	212.0	
						RPD = 0.16	
6 Acetylene							M
1	4.244	4.244	0.000	3287680	118.5	126.7	
2	2.488	2.488	0.000	4312506	118.5	125.6	M
						RPD = 0.87	
7 Butane							
1	4.554	4.554	0.000	29907332	264.5	273.2	
2	6.083	6.083	0.000	28030666	264.5	279.3	
						RPD = 2.20	
8 isobutylene							
1	5.392	5.392	0.000	19808714	255.4	276.5	
2	5.926	5.926	0.000	17460732	255.4	278.4	
						RPD = 0.68	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

RSK7gasMathes_00031 Amount Added: 200.00 Units: uL

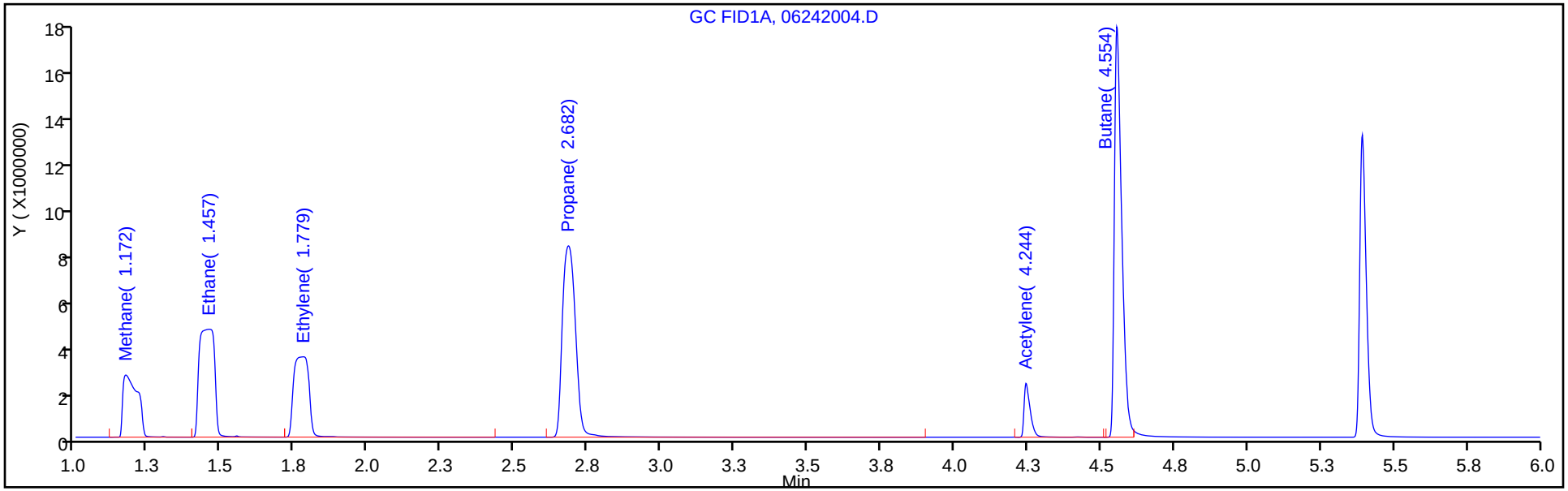
Report Date: 24-Jun-2020 12:39:59 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

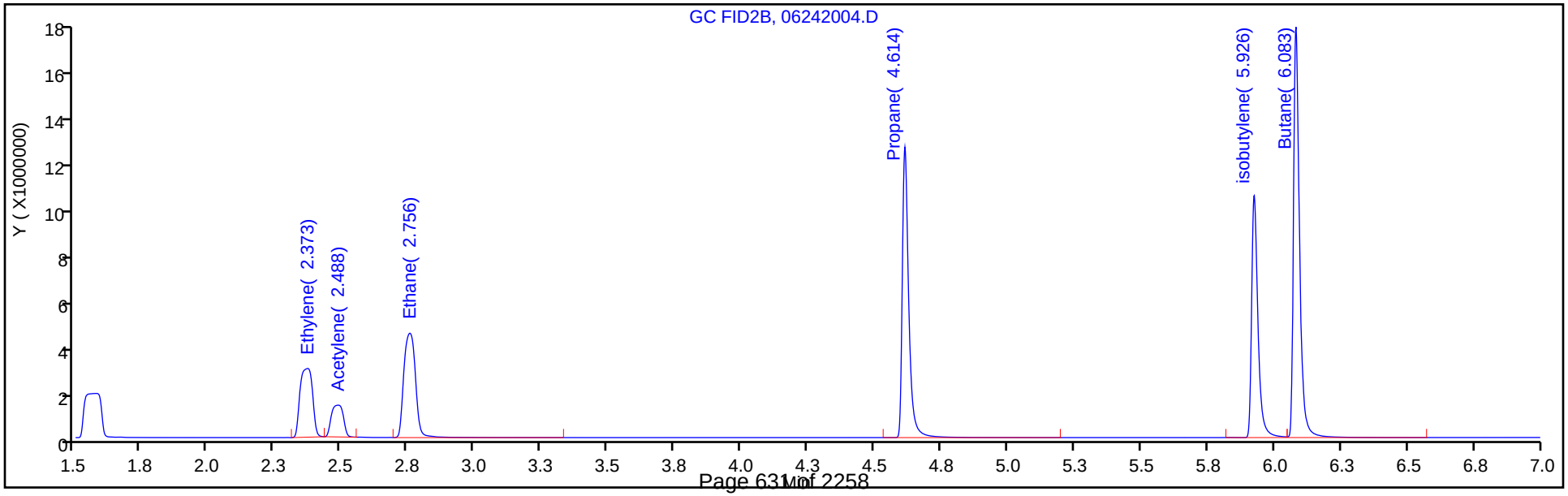
Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242004.D

Injection Date:	24-Jun-2020 10:45:14	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	ICRT L4			Worklist Smp#:	4
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Report Date: 24-Jun-2020 12:40:00 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242005.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 24-Jun-2020 10:57:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: IC L5
Misc. Info.: 280-0092709-005
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 24-Jun-2020 12:40:00 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1017

First Level Reviewer: meierg Date: 24-Jun-2020 11:10:35

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.172	1.172	0.000	17468122	146.0	147.5	
2	1.577	1.577	0.000	15578914	146.0	144.4	
						RPD = 2.18	
3 Ethane							
1	1.462	1.462	0.000	30906100	273.7	269.6	
2	2.756	2.756	0.000	26361358	273.7	271.5	
						RPD = 0.70	
4 Ethylene							
1	1.779	1.779	0.000	23971500	255.3	261.2	
2	2.372	2.372	0.000	18569939	255.3	254.2	
						RPD = 2.71	
5 Propane							
1	2.676	2.676	0.000	46992293	401.4	398.0	
2	4.609	4.609	0.000	40116354	401.4	401.0	
						RPD = 0.76	
6 Acetylene							M
1	4.234	4.234	0.000	6232354	237.0	240.2	
2	2.486	2.486	0.000	8203389	237.0	239.0	M
						RPD = 0.53	
7 Butane							
1	4.541	4.541	0.000	57396046	529.0	523.6	
2	6.076	6.076	0.000	52957196	529.0	527.0	
						RPD = 0.64	
8 isobutylene							
1	5.381	5.381	0.000	37720673	510.8	526.6	
2	5.921	5.921	0.000	33259110	510.8	530.3	
						RPD = 0.70	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

RSK7gasMathes_00031 Amount Added: 400.00 Units: uL

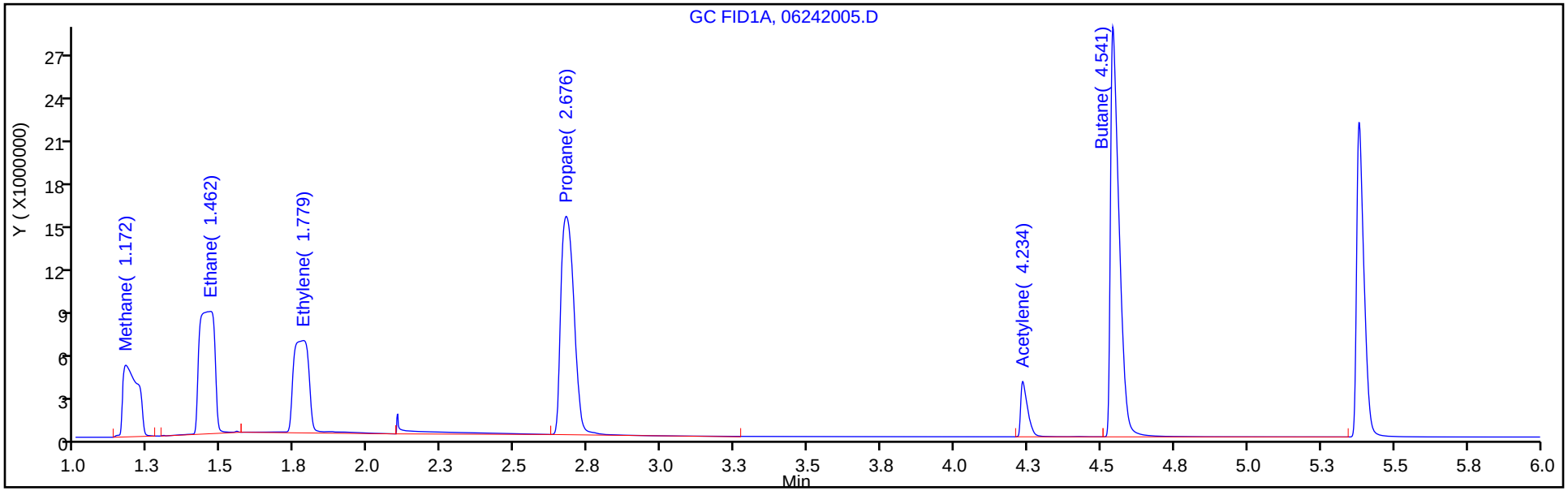
Report Date: 24-Jun-2020 12:40:00 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

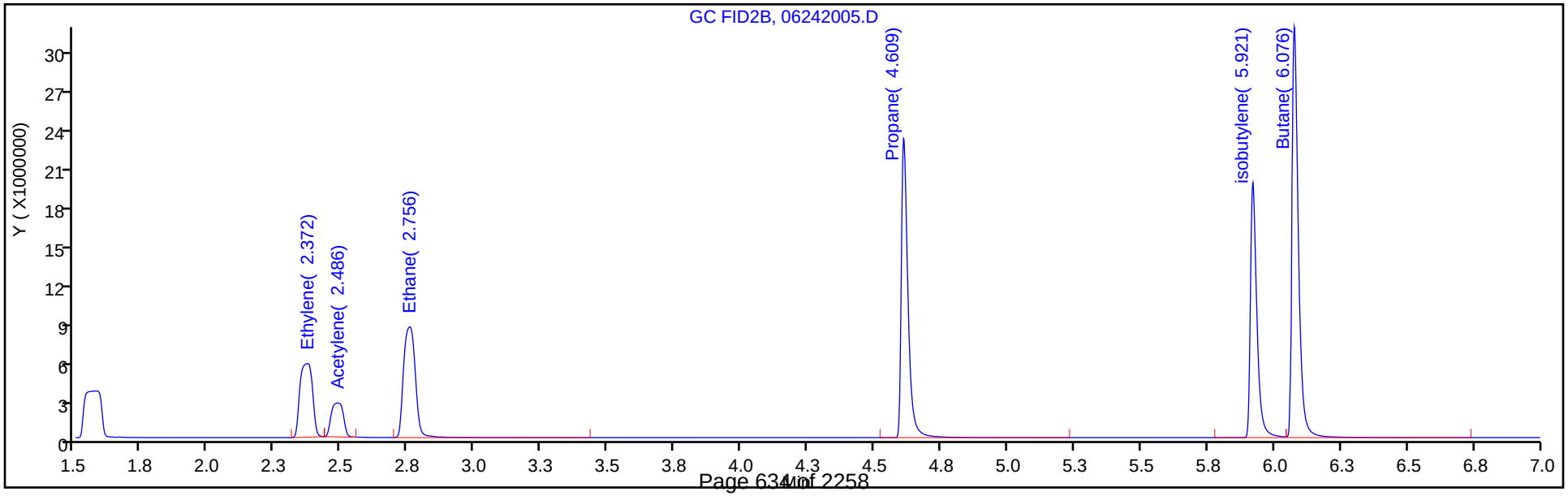
Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242005.D

Injection Date:	24-Jun-2020 10:57:30	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	IC L5			Worklist Smp#:	5
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242006.D
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 24-Jun-2020 11:09:45 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: IC L6
Misc. Info.: 280-0092709-006
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 24-Jun-2020 12:40:01 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1017

First Level Reviewer: meierg Date: 24-Jun-2020 11:22:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.168	1.172	-0.004	34804015	292.0	294.4	
2	1.576	1.577	-0.001	31463322	292.0	291.8	
						RPD = 0.87	
3 Ethane							
1	1.458	1.462	-0.004	63053378	547.4	550.1	
2	2.750	2.756	-0.006	53331817	547.4	549.4	
						RPD = 0.14	
4 Ethylene							
1	1.771	1.779	-0.008	46705608	510.7	508.9	
2	2.366	2.372	-0.006	37428833	510.7	512.4	
						RPD = 0.68	
5 Propane							
1	2.658	2.676	-0.018	95948907	802.8	812.6	
2	4.601	4.609	-0.008	81456479	802.8	814.2	
						RPD = 0.20	
6 Acetylene							Ma
1	4.216	4.234	-0.018	12537110	474.1	483.3	M
2	2.485	2.486	-0.001	16738973	474.1	487.6	M
						RPD = 0.90	
7 Butane							Ma
1	4.521	4.541	-0.020	114699787	1058.1	1045.8	M
2	6.066	6.076	-0.010	103377764	1058.1	1028.2	M
						RPD = 1.70	
8 isobutylene							M
1	5.365	5.381	-0.016	76413104	1021.5	1066.7	
2	5.913	5.921	-0.008	66173382	1021.5	1055.1	M
						RPD = 1.10	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031 Amount Added: 800.00 Units: uL

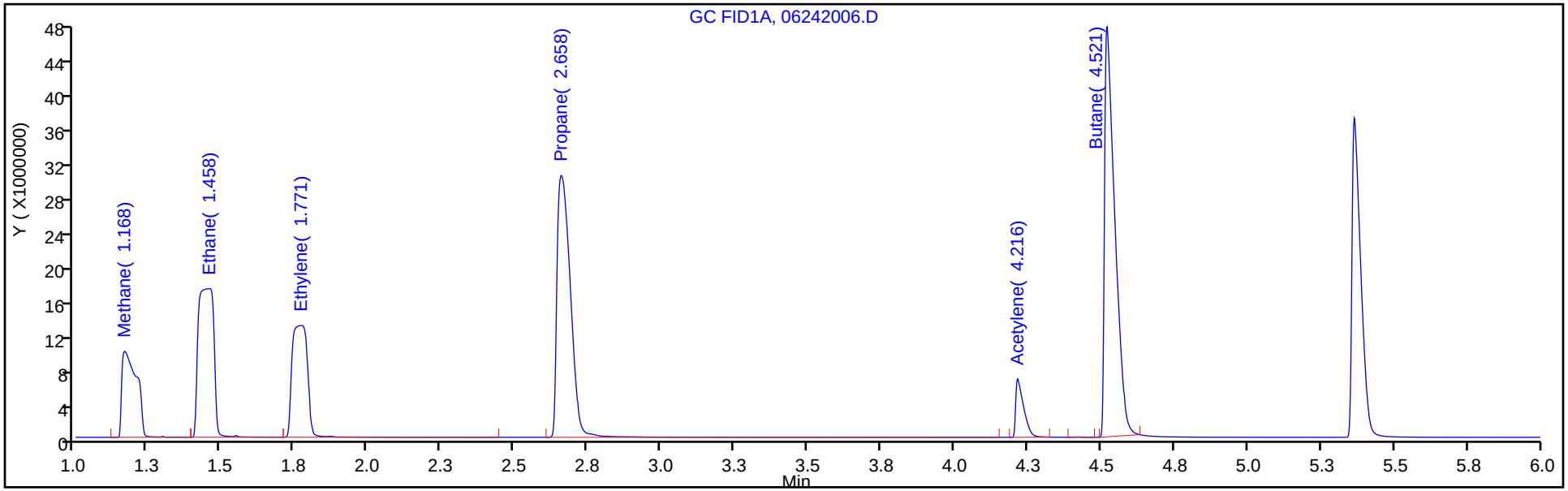
Report Date: 24-Jun-2020 12:40:01 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

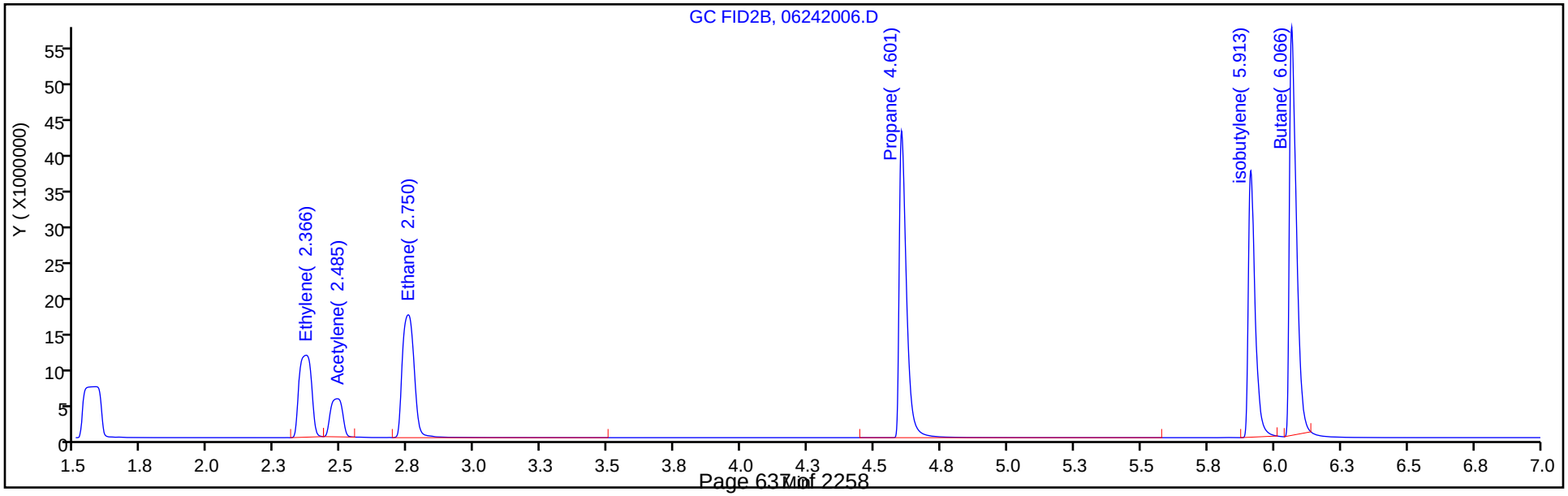
Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242006.D

Injection Date:	24-Jun-2020 11:09:45	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	IC L6			Worklist Smp#:	6
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

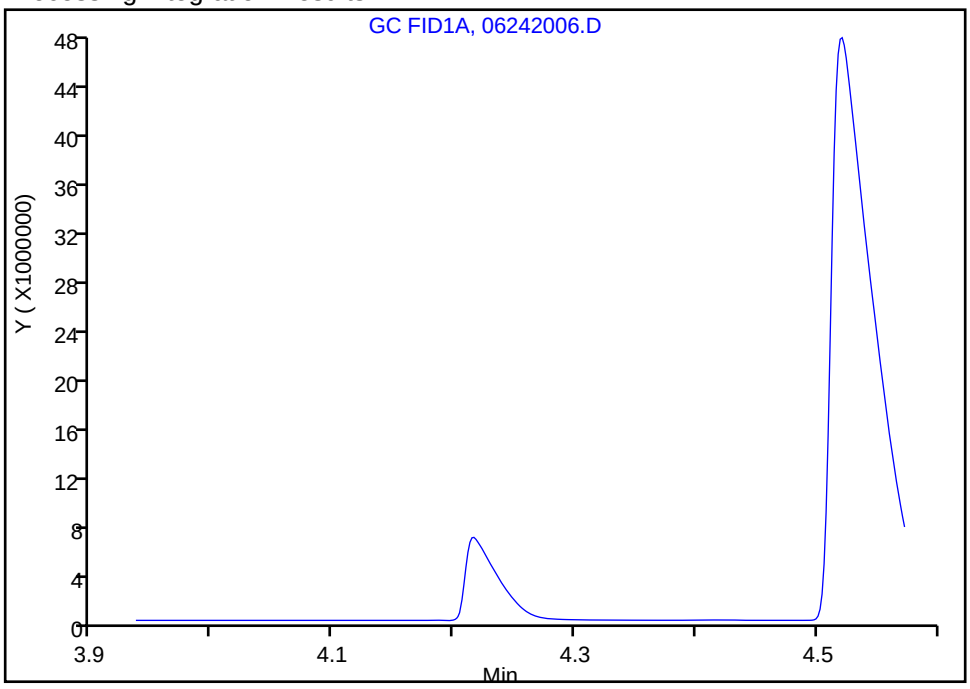
Data File:	\\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242006.D				
Injection Date:	24-Jun-2020 11:09:45	Instrument ID:	VGC_J		
Lims ID:	IC L6				
Client ID:					
Operator ID:	gm	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	18.000 mL	Dil. Factor:	1.0000		
Method:	RSK_J	Limit Group:	GCV - RSK 175		
Column:	Rt-Alumina BOND/KCl (0.53 mm)	Detector	GC FID1A		

6 Acetylene, CAS: 74-86-2

Signal: 1

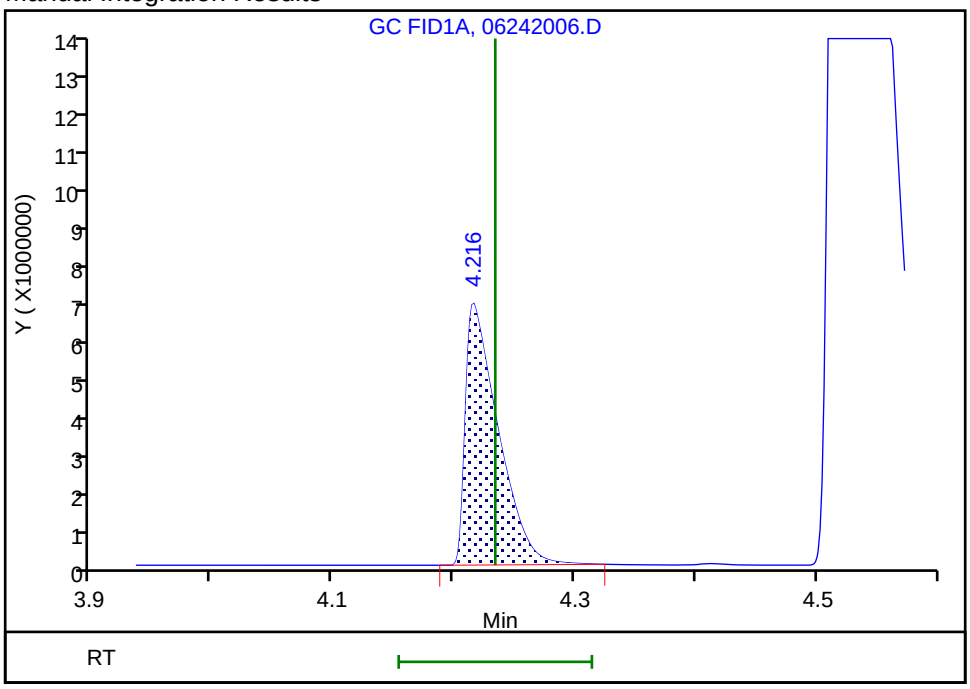
Processing Integration Results

RT: 4.23
Area: 0
Amount: 487.6074
Amount Units: ug/l



Manual Integration Results

RT: 4.22
Area: 12537110
Amount: 483.2562
Amount Units: ug/l



Reviewer: meierg, 24-Jun-2020 11:22:47

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Peak not integrated

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242007.D
Lims ID: IC L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 24-Jun-2020 11:22:02 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: IC L7
Misc. Info.: 280-0092709-007
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 24-Jun-2020 12:40:02 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1017

First Level Reviewer: meierg Date: 24-Jun-2020 11:34:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.172	1.172	0.000	208468313	1806.9	1765.4	
2	1.576	1.577	-0.001	189546256	1806.9	1759.6	
						RPD = 0.33	

Reagents:

RSK175methane_00010 Amount Added: 50.00 Units: uL

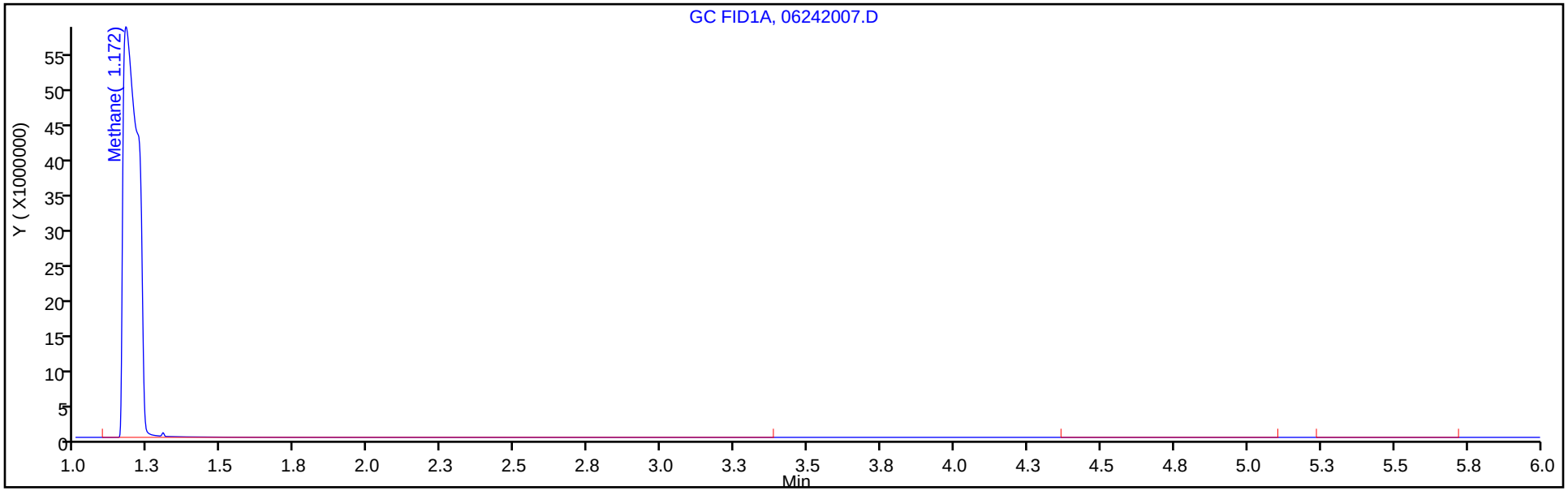
Report Date: 24-Jun-2020 12:40:02 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

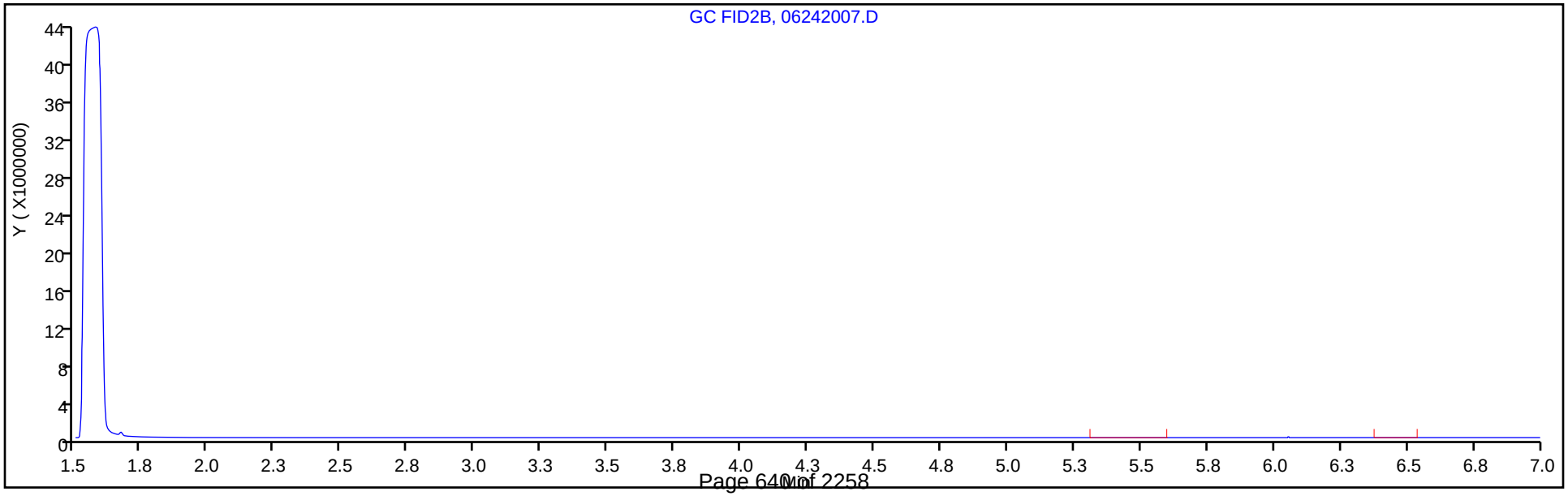
Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242007.D

Injection Date:	24-Jun-2020 11:22:02	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	IC L7			Worklist Smp#:	7
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242008.D
Lims ID: IC L8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 24-Jun-2020 11:34:17 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: IC L8
Misc. Info.: 280-0092709-008
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 24-Jun-2020 12:40:02 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1017

First Level Reviewer: meierg Date: 24-Jun-2020 11:49:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.169	1.172	-0.003	829291020	7227.8	7023.8	
2	1.571	1.577	-0.006	768036307	7227.8	7130.5	
						RPD = 1.51	

Reagents:

RSK175methane_00010 Amount Added: 200.00 Units: uL

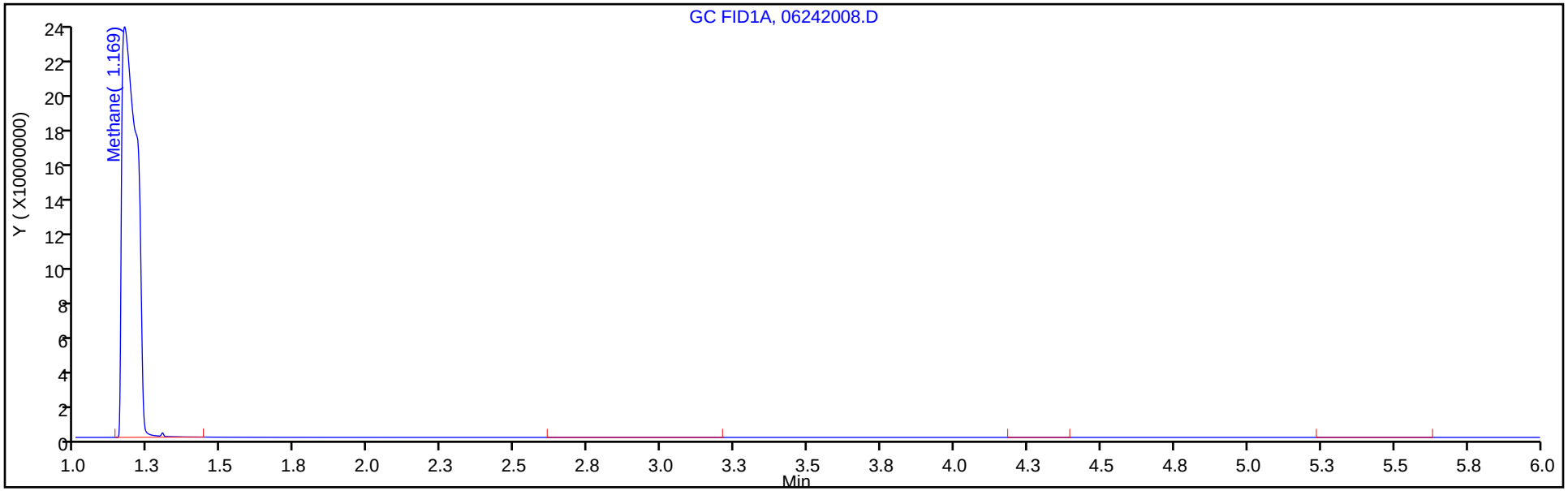
Report Date: 24-Jun-2020 12:40:02 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

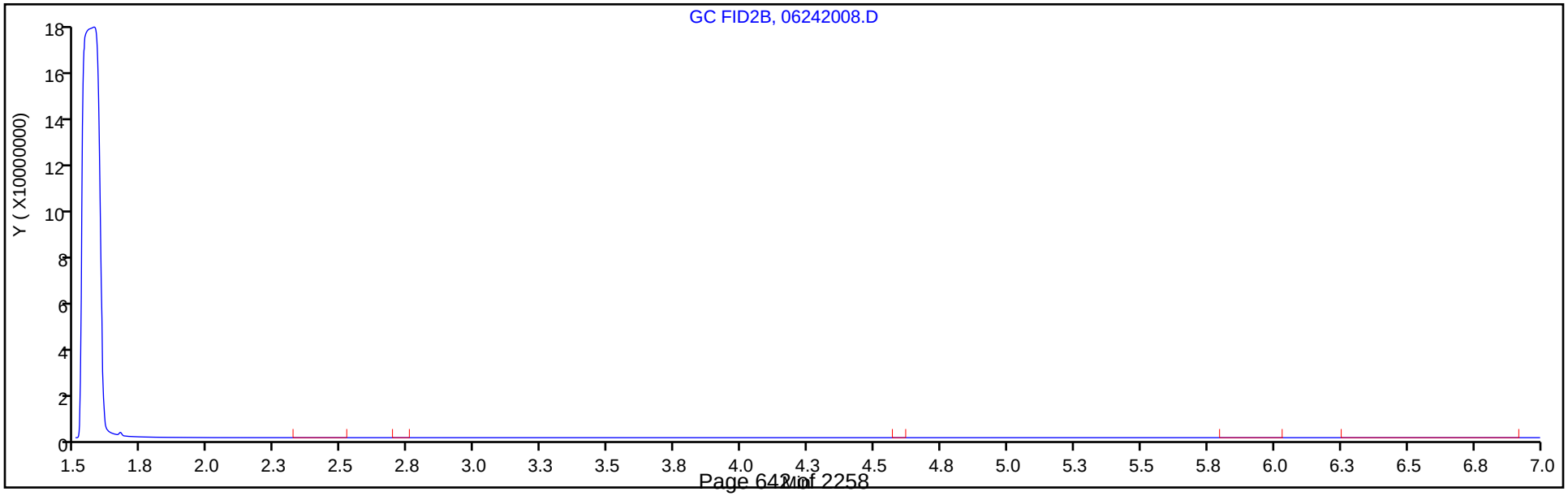
Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242008.D

Injection Date:	24-Jun-2020 11:34:17	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	IC L8			Worklist Smp#:	8
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D
Lims ID: IC L9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 24-Jun-2020 11:46:32 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: IC L9
Misc. Info.: 280-0092709-009
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 24-Jun-2020 12:40:03 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1017

First Level Reviewer: meierg Date: 24-Jun-2020 11:58:37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.163	1.172	-0.009	2294825441	21683	19437	
2	1.560	1.577	-0.017	2136573736	21683	19837	
						RPD = 2.03	

Reagents:

RSK175methane_00010 Amount Added: 600.00 Units: uL

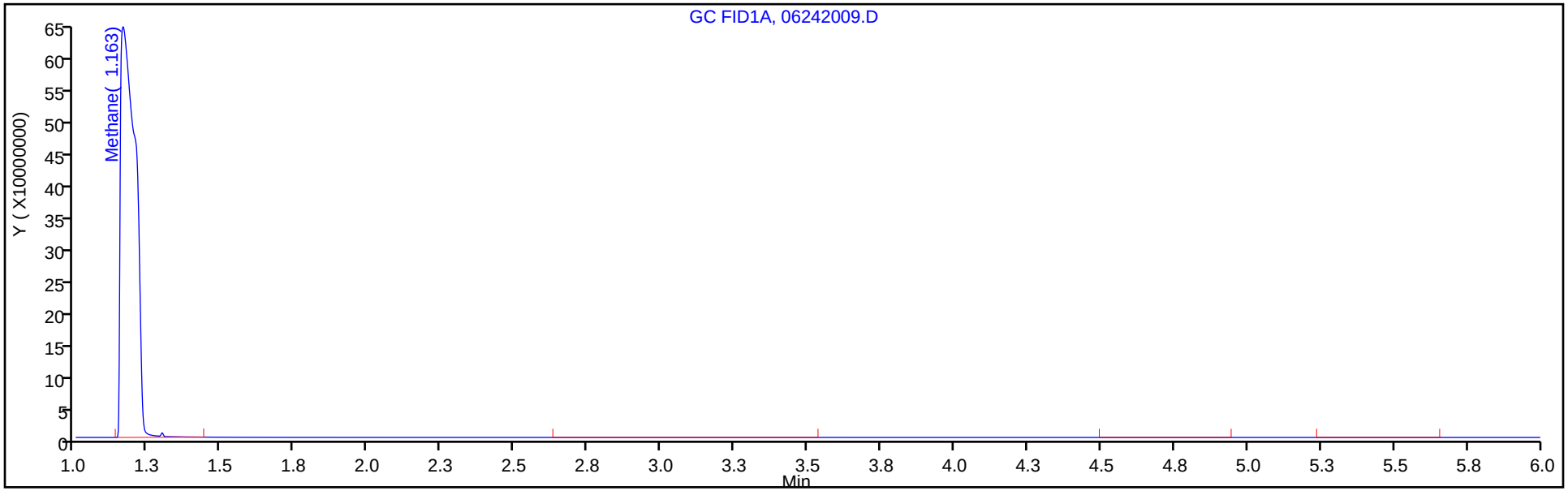
Report Date: 24-Jun-2020 12:40:03 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

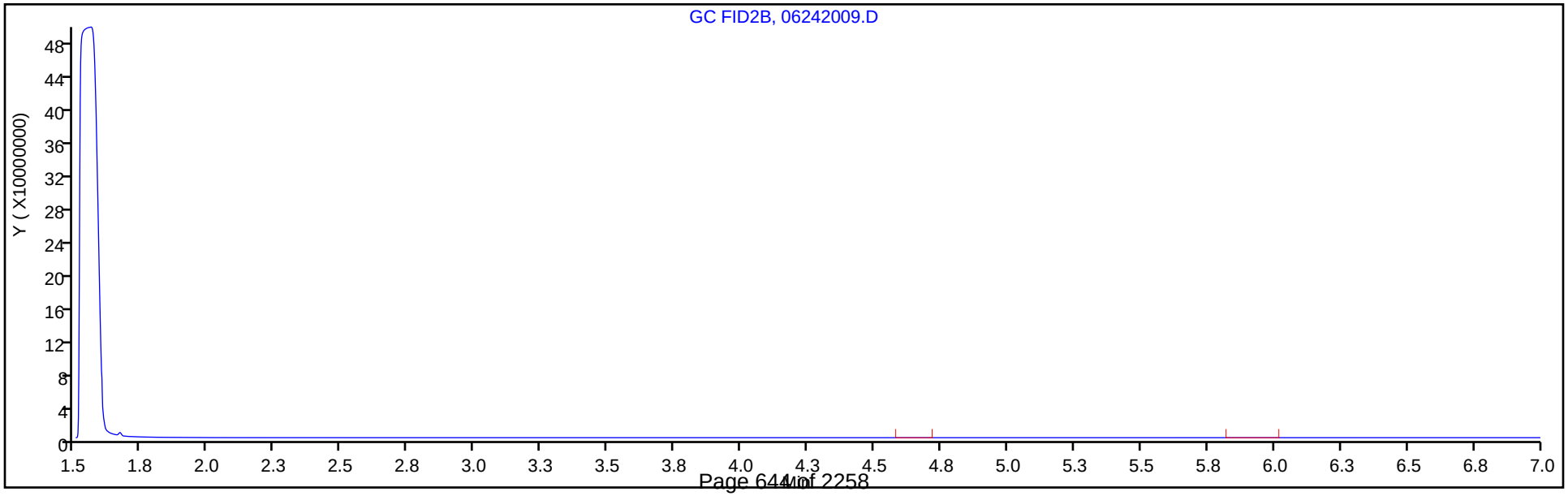
Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Injection Date:	24-Jun-2020 11:46:32	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	IC L9			Worklist Smp#:	9
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 499937

SDG No.:

Instrument ID: VGC_J GC Column: HP-Plot Q ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/24/2020 10:08 Calibration End Date: 06/24/2020 11:46 Calibration ID: 45323

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-499937/1	06242001.D
Level 2	IC 280-499937/2	06242002.D
Level 3	IC 280-499937/3	06242003.D
Level 4	ICRT 280-499937/4	06242004.D
Level 5	IC 280-499937/5	06242005.D
Level 6	IC 280-499937/6	06242006.D
Level 7	IC 280-499937/7	06242007.D
Level 8	IC 280-499937/8	06242008.D
Level 9	IC 280-499937/9	06242009.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
Methane	1.578	1.576	1.582	1.578	1.577	1.576	1.576	1.571	1.560		1.537 - 1.617	1.575
Ethylene	2.369	2.373	2.375	2.373	2.372	2.366					2.322 - 2.422	2.371
Acetylene	2.486	2.486	2.488	2.488	2.486	2.485					2.406 - 2.566	2.487
Ethane	2.754	2.759	2.760	2.756	2.756	2.750					2.706 - 2.806	2.756

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 499937

SDG No.:

Instrument ID: VGC_J GC Column: HP-Plot Q ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/24/2020 10:08 Calibration End Date: 06/24/2020 11:46 Calibration ID: 45323

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-499937/1	06242001.D
Level 2	IC 280-499937/2	06242002.D
Level 3	IC 280-499937/3	06242003.D
Level 4	ICRT 280-499937/4	06242004.D
Level 5	IC 280-499937/5	06242005.D
Level 6	IC 280-499937/6	06242006.D
Level 7	IC 280-499937/7	06242007.D
Level 8	IC 280-499937/8	06242008.D
Level 9	IC 280-499937/9	06242009.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 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Methane	140166 106700 98535	124066 107746	120545 104899	112890 106262	Lin2	30195.2183	107706.664							0.9970		0.9900
Ethylene	67408 72728	70567 73294	78040	76257	Ave		73048.9305				5.2		20.0			
Acetylene	31637 34607	32532 35308	35503	36386	Ave		34328.7927				5.4		20.0			
Ethane	89252 96311	92915 97424	104971	101617	Ave		97081.5518				5.9		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 499937

SDG No.:

Instrument ID: VGC_J GC Column: HP-Plot Q ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/24/2020 10:08 Calibration End Date: 06/24/2020 11:46 Calibration ID: 45323

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-499937/1	06242001.D
Level 2	IC 280-499937/2	06242002.D
Level 3	IC 280-499937/3	06242003.D
Level 4	ICRT 280-499937/4	06242004.D
Level 5	IC 280-499937/5	06242005.D
Level 6	IC 280-499937/6	06242006.D
Level 7	IC 280-499937/7	06242007.D
Level 8	IC 280-499937/8	06242008.D
Level 9	IC 280-499937/9	06242009.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Methane	Lin2	127907 31463322	226430 189546256	1760038 768036307	8241315 2136573736	15578914	0.913 292	1.83 1807	14.6 7228	73.0 21683	146
Ethylene	Ave	107572 37428833	225225	1992619	9735448	18569939	1.60 511	3.19	25.5	128	255
Acetylene	Ave	46871 16738973	96395	841585	4312506	8203389	1.48 474	2.96	23.7	119	237
Ethane	Ave	152683 53331817	317897	2873171	13906890	26361358	1.71 547	3.42	27.4	137	274

Curve Type Legend:

Ave = Average
Lin2 = Linear 1/conc^2

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242001.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 24-Jun-2020 10:08:41 ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: IC L1
Misc. Info.: 280-0092709-001
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 24-Jun-2020 12:39:57 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1017

First Level Reviewer: meierg Date: 24-Jun-2020 10:23:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.174	1.172	0.002	155827	0.9125	0.9075	
2	1.578	1.577	0.001	127907	0.9125	0.9072	
						RPD = 0.03	
3 Ethane							
1	1.462	1.462	0.000	181168	1.71	1.58	
2	2.754	2.756	-0.002	152683	1.71	1.57	
						RPD = 0.50	
4 Ethylene							M
1	1.781	1.779	0.002	136002	1.60	1.48	
2	2.369	2.372	-0.003	107572	1.60	1.47	M
						RPD = 0.62	
5 Propane							
1	2.692	2.676	0.016	276461	2.51	2.34	
2	4.616	4.609	0.007	230434	2.51	2.30	
						RPD = 1.64	
6 Acetylene							Ma
1	4.272	4.234	0.038	34073	1.48	1.31	M
2	2.486	2.486	0.000	46871	1.48	1.37	M
						RPD = 3.88	
7 Butane							Ma
1	4.581	4.541	0.040	302314	3.31	3.44	M
2	6.089	6.076	0.013	280641	3.31	3.45	M
						RPD = 0.36	
8 isobutylene							
1	5.414	5.381	0.033	210574	3.19	2.94	
2	5.929	5.921	0.008	184181	3.19	2.94	
						RPD = 0.10	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031 Amount Added: 2.50 Units: uL

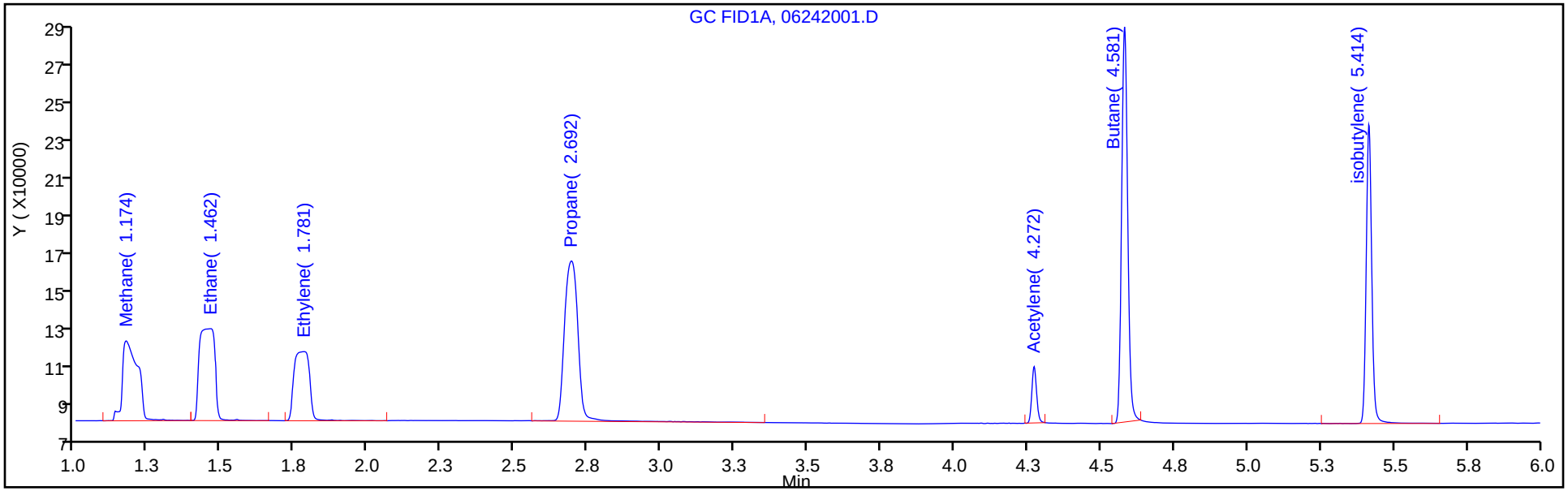
Report Date: 24-Jun-2020 12:39:58 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

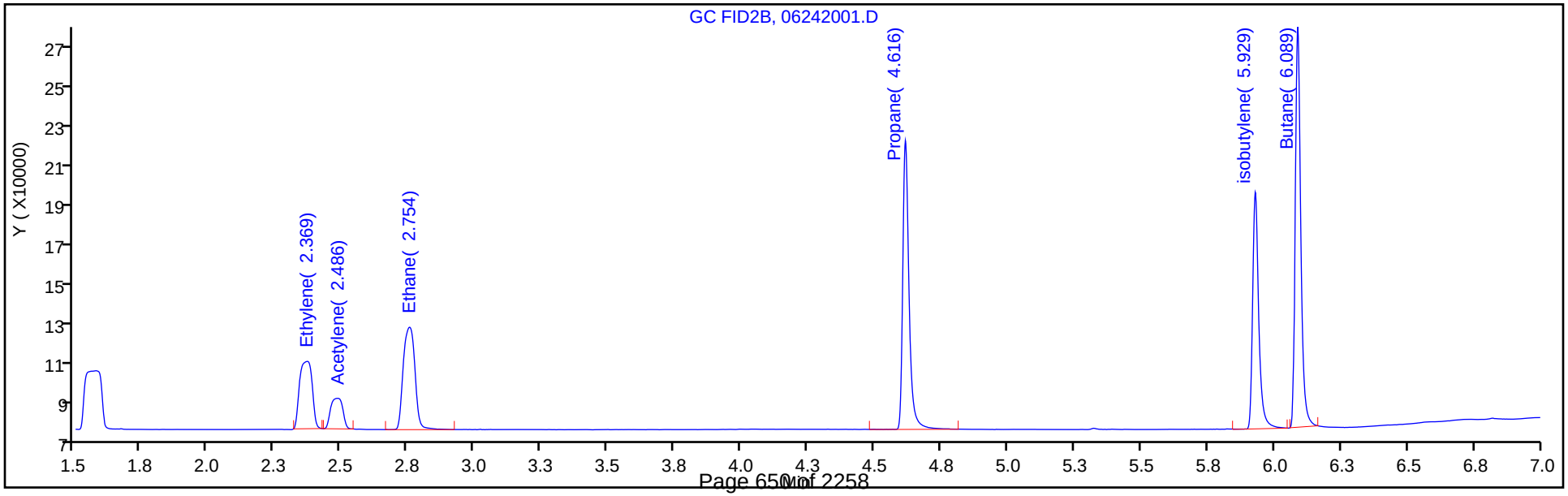
Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242001.D

Injection Date:	24-Jun-2020 10:08:41	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	IC L1			Worklist Smp#:	1
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

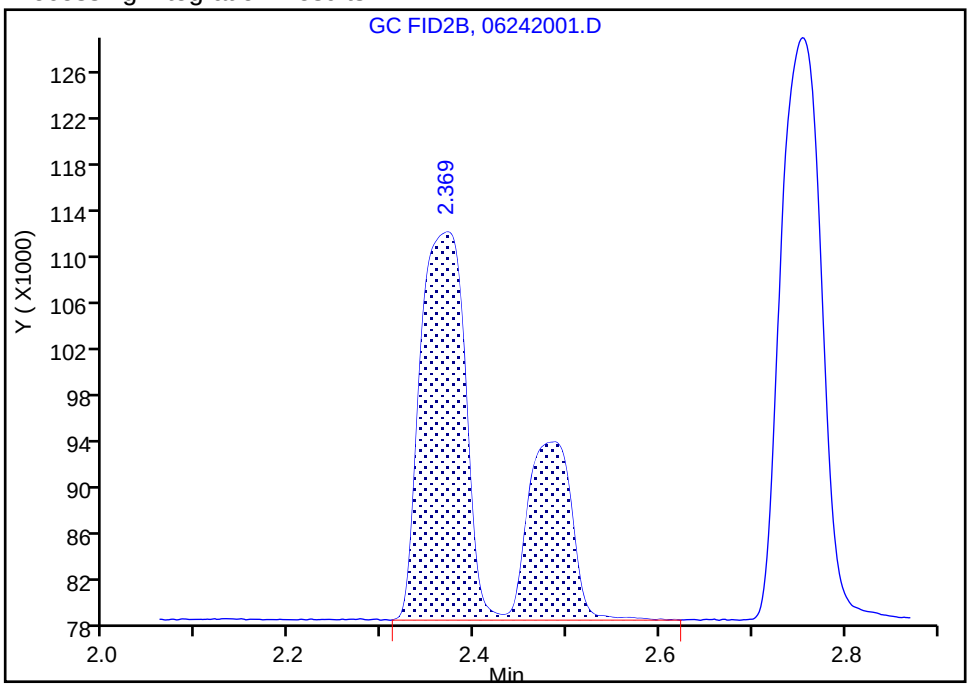
Data File:	\\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242001.D				
Injection Date:	24-Jun-2020 10:08:41	Instrument ID:	VGC_J		
Lims ID:	IC L1				
Client ID:					
Operator ID:	gm	ALS Bottle#:	1	Worklist Smp#:	1
Purge Vol:	18.000 mL	Dil. Factor:	1.0000		
Method:	RSK_J	Limit Group:	GCV - RSK 175		
Column:	HP-PLOT/Q (0.53 mm)	Detector	GC FID2B		

4 Ethylene, CAS: 74-85-1

Signal: 2

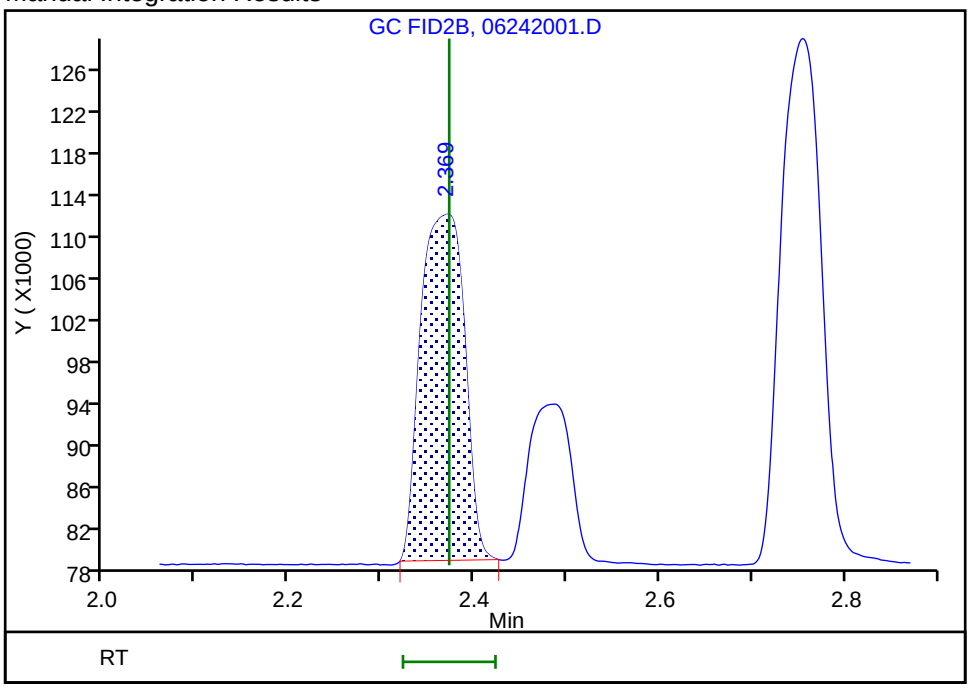
Processing Integration Results

RT: 2.37
Area: 160626
Amount: 1.973798
Amount Units: ug/l



Manual Integration Results

RT: 2.37
Area: 107572
Amount: 1.472602
Amount Units: ug/l



Reviewer: meierg, 24-Jun-2020 11:03:38
Audit Action: Manually Integrated Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

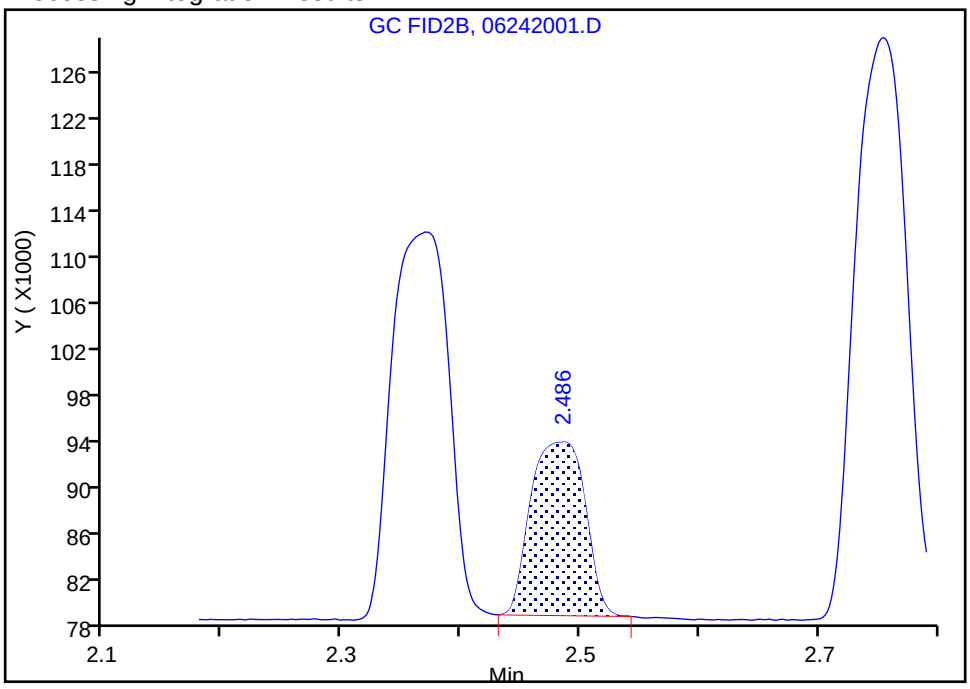
Data File:	\\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242001.D				
Injection Date:	24-Jun-2020 10:08:41	Instrument ID:	VGC_J		
Lims ID:	IC L1				
Client ID:					
Operator ID:	gm	ALS Bottle#:	1	Worklist Smp#:	1
Purge Vol:	18.000 mL	Dil. Factor:	1.0000		
Method:	RSK_J	Limit Group:	GCV - RSK 175		
Column:	HP-PLOT/Q (0.53 mm)	Detector	GC FID2B		

6 Acetylene, CAS: 74-86-2

Signal: 2

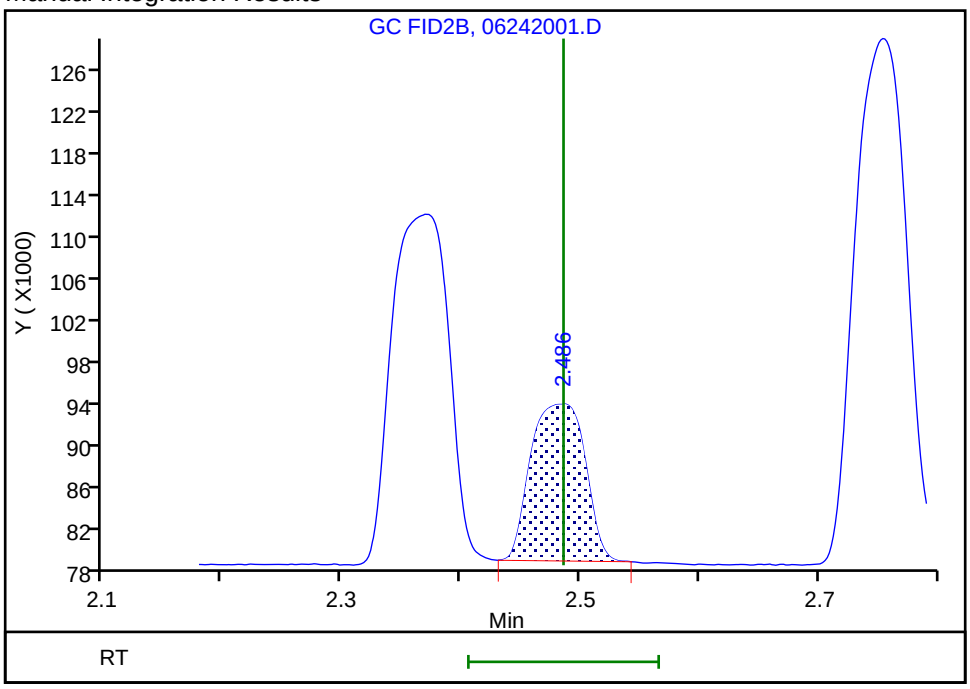
Processing Integration Results

RT: 2.49
Area: 46871
Amount: 1.272887
Amount Units: ug/l



Manual Integration Results

RT: 2.49
Area: 46871
Amount: 1.365355
Amount Units: ug/l



Reviewer: meierg, 24-Jun-2020 11:03:56

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Peak not integrated

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242002.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 24-Jun-2020 10:20:49 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: IC L2
Misc. Info.: 280-0092709-002
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 24-Jun-2020 12:39:58 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1017

First Level Reviewer: meierg Date: 24-Jun-2020 11:05:44

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.173	1.172	0.001	263689	1.83	1.82	
2	1.576	1.577	-0.001	226430	1.83	1.82	
						RPD = 0.04	
3 Ethane							
1	1.463	1.462	0.001	375320	3.42	3.27	
2	2.759	2.756	0.003	317897	3.42	3.27	
						RPD = 0.00	
4 Ethylene							
1	1.778	1.779	-0.001	280938	3.19	3.06	
2	2.373	2.372	0.001	225225	3.19	3.08	
						RPD = 0.72	
5 Propane							
1	2.693	2.676	0.017	552814	5.02	4.68	
2	4.619	4.609	0.010	470455	5.02	4.70	
						RPD = 0.44	
6 Acetylene							M
1	4.269	4.234	0.035	74600	2.96	2.88	
2	2.486	2.486	0.000	96395	2.96	2.81	M
						RPD = 2.38	
7 Butane							Ma
1	4.578	4.541	0.037	587119	6.61	6.04	M
2	6.089	6.076	0.013	535944	6.61	5.99	M
						RPD = 0.75	
8 isobutylene							
1	5.413	5.381	0.032	406845	6.38	5.68	
2	5.931	5.921	0.010	356829	6.38	5.69	
						RPD = 0.17	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031 Amount Added: 5.00 Units: uL

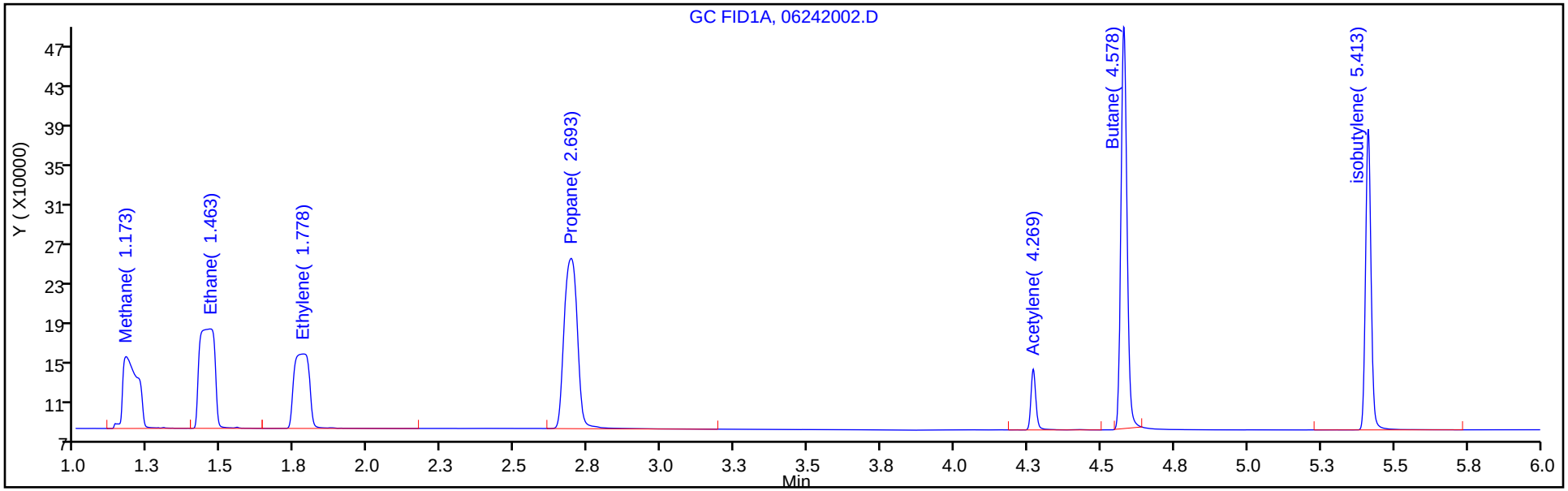
Report Date: 24-Jun-2020 12:39:58 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

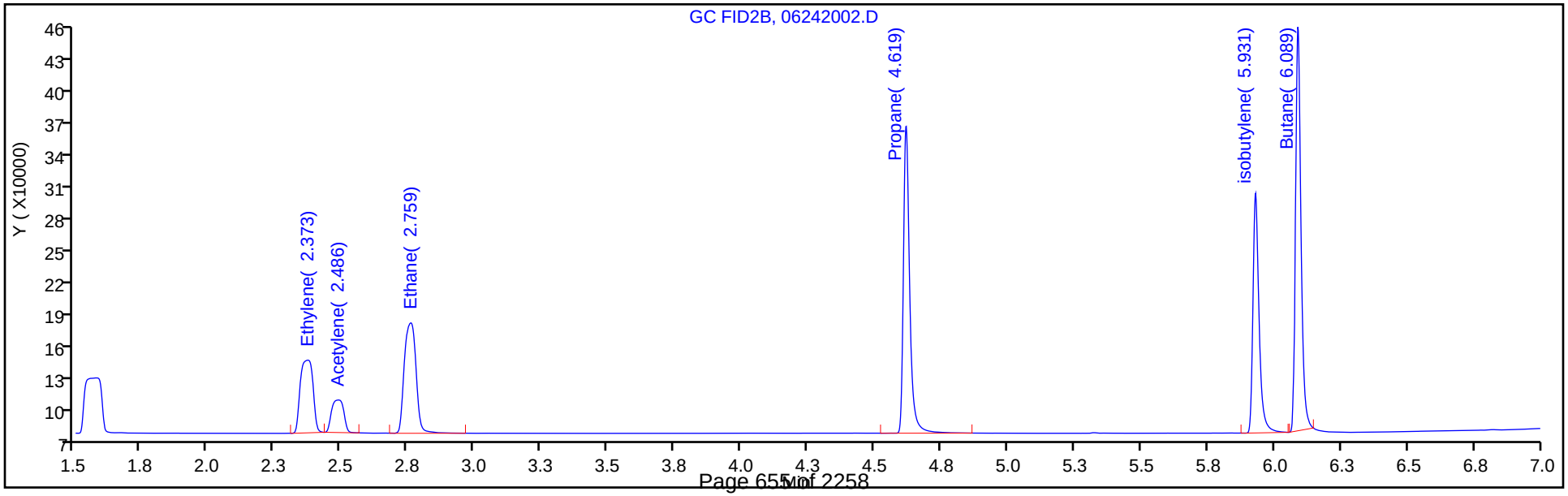
Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242002.D

Injection Date:	24-Jun-2020 10:20:49	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	IC L2			Worklist Smp#:	2
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

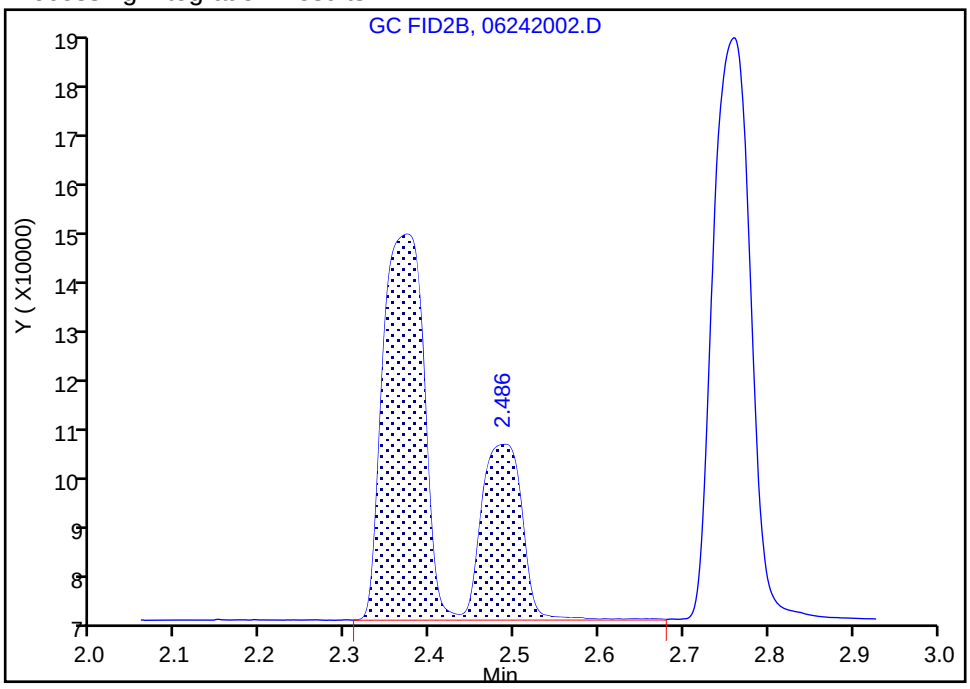
Data File:	\\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242002.D				
Injection Date:	24-Jun-2020 10:20:49	Instrument ID:	VGC_J		
Lims ID:	IC L2				
Client ID:					
Operator ID:	gm	ALS Bottle#:	2	Worklist Smp#:	2
Purge Vol:	18.000 mL	Dil. Factor:	1.0000		
Method:	RSK_J	Limit Group:	GCV - RSK 175		
Column:	HP-PLOT/Q (0.53 mm)	Detector	GC FID2B		

6 Acetylene, CAS: 74-86-2

Signal: 2

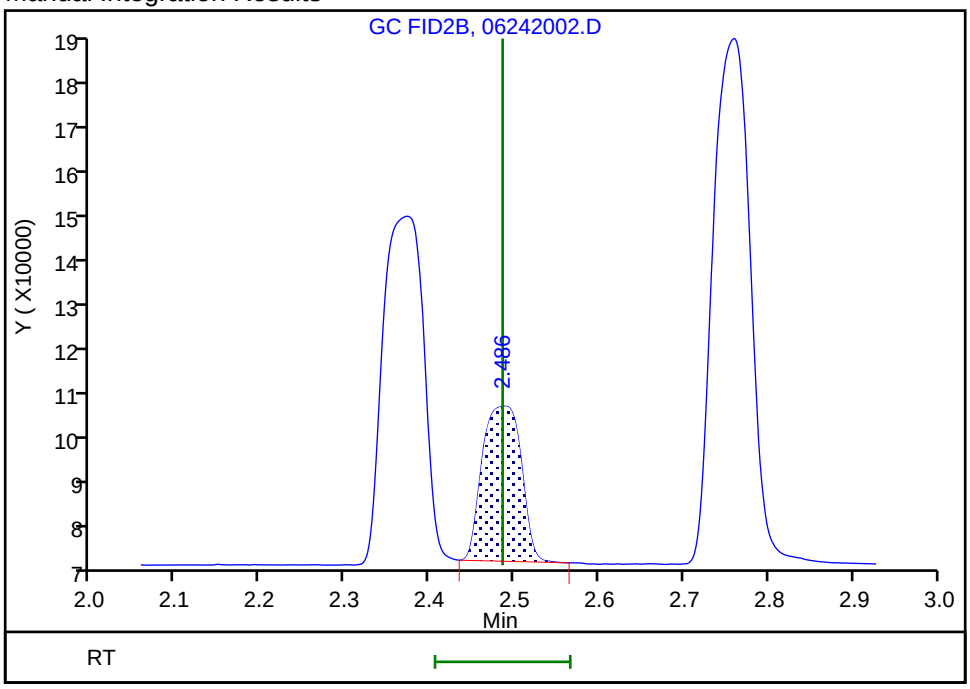
Processing Integration Results

RT: 2.49
Area: 331861
Amount: 3.194563
Amount Units: ug/l



Manual Integration Results

RT: 2.49
Area: 96395
Amount: 2.807993
Amount Units: ug/l



Reviewer: meierg, 24-Jun-2020 11:05:18

Audit Action: Manually Integrated Audit Reason: Shouldering

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242003.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 24-Jun-2020 10:33:02 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: IC L3
Misc. Info.: 280-0092709-003
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 24-Jun-2020 12:39:59 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1017

First Level Reviewer: meierg Date: 24-Jun-2020 11:08:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.175	1.172	0.003	1935518	14.6	16.0	
2	1.582	1.577	0.005	1760038	14.6	16.1	
						RPD = 0.49	
3 Ethane							
1	1.460	1.462	-0.002	3384056	27.4	29.5	
2	2.760	2.756	0.004	2873171	27.4	29.6	
						RPD = 0.24	
4 Ethylene							
1	1.782	1.779	0.003	2472852	25.5	26.9	
2	2.375	2.372	0.003	1992619	25.5	27.3	
						RPD = 1.23	
5 Propane							
1	2.690	2.676	0.014	5082003	40.1	43.0	
2	4.618	4.609	0.009	4318201	40.1	43.2	
						RPD = 0.29	
6 Acetylene							M
1	4.262	4.234	0.028	640190	23.7	24.7	
2	2.488	2.486	0.002	841585	23.7	24.5	M
						RPD = 0.66	
7 Butane							M
1	4.572	4.541	0.031	5935156	52.9	54.8	
2	6.088	6.076	0.012	5391164	52.9	54.3	M
						RPD = 0.94	
8 isobutylene							Ma
1	5.405	5.381	0.024	3773741	51.1	52.7	M
2	5.928	5.921	0.007	3291654	51.1	52.5	M
						RPD = 0.38	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031 Amount Added: 40.00 Units: uL

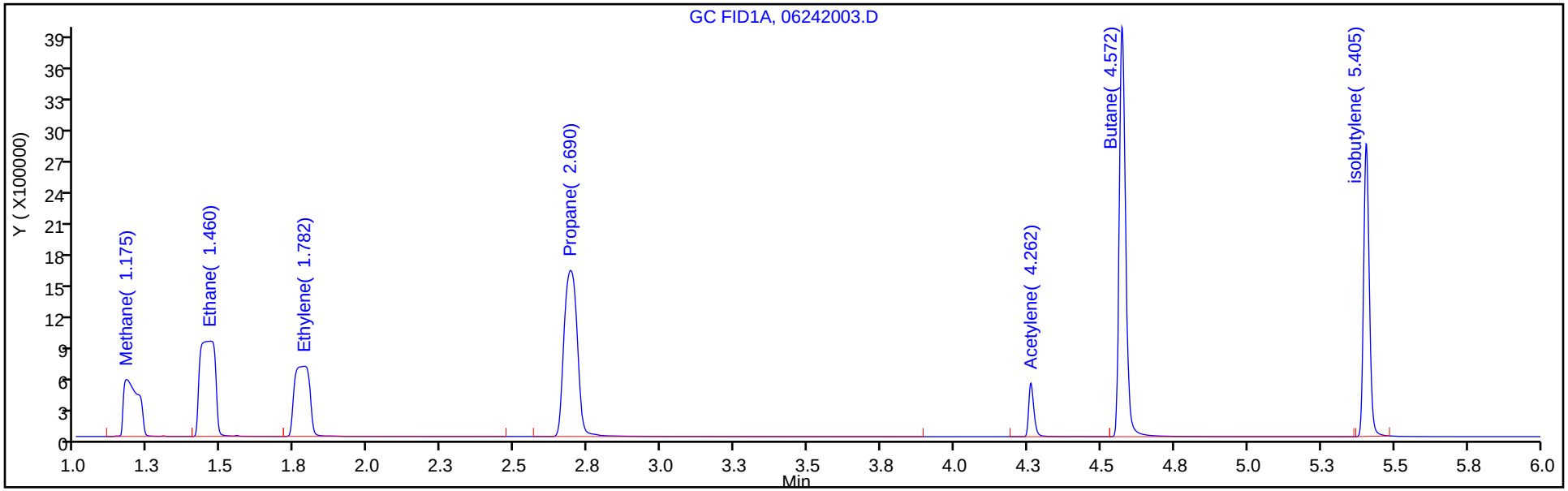
Report Date: 24-Jun-2020 12:39:59 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

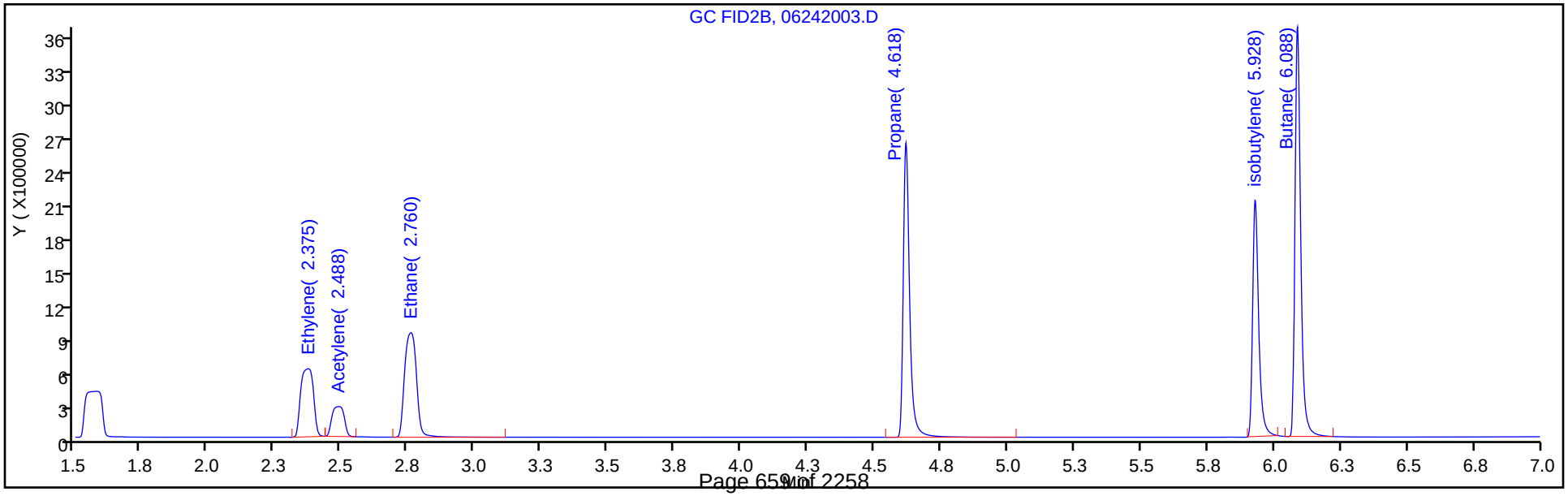
Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242003.D

Injection Date:	24-Jun-2020 10:33:02	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	IC L3			Worklist Smp#:	3
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

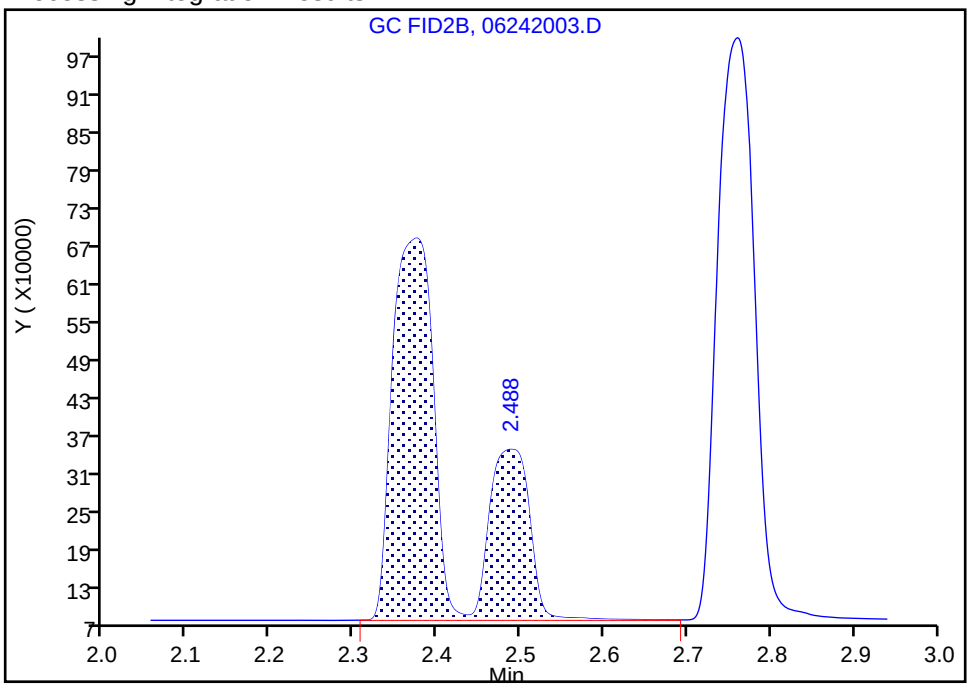
Data File:	\\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242003.D				
Injection Date:	24-Jun-2020 10:33:02	Instrument ID:	VGC_J		
Lims ID:	IC L3				
Client ID:					
Operator ID:	gm	ALS Bottle#:	3	Worklist Smp#:	3
Purge Vol:	18.000 mL	Dil. Factor:	1.0000		
Method:	RSK_J	Limit Group:	GCV - RSK 175		
Column:	HP-PLOT/Q (0.53 mm)	Detector	GC FID2B		

6 Acetylene, CAS: 74-86-2

Signal: 2

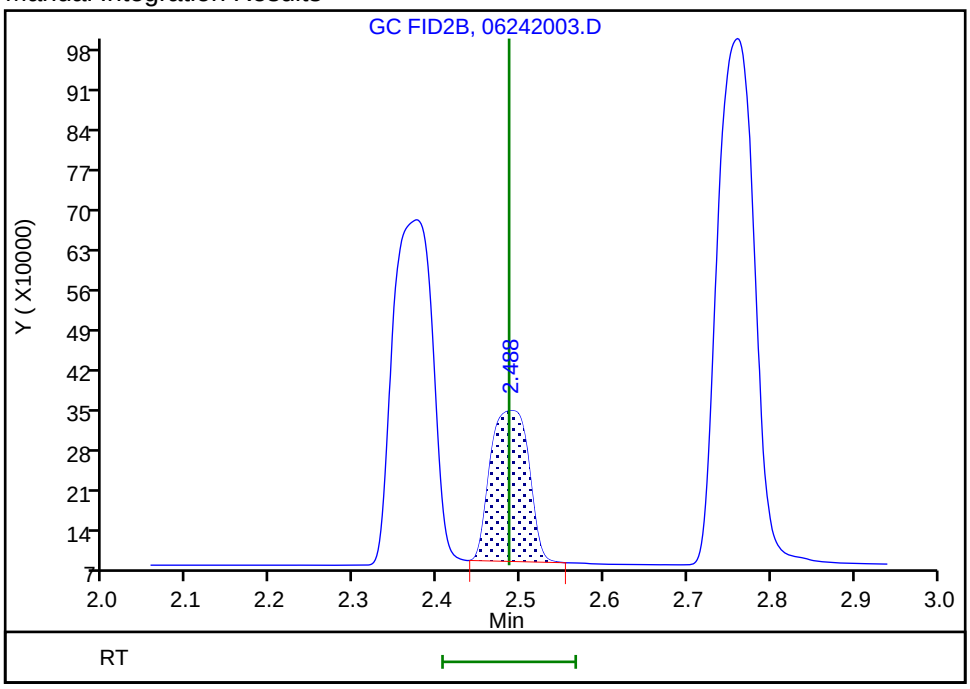
Processing Integration Results

RT: 2.49
Area: 2924290
Amount: 42.965365
Amount Units: ug/l



Manual Integration Results

RT: 2.49
Area: 841585
Amount: 24.515427
Amount Units: ug/l



Reviewer: meierg, 24-Jun-2020 11:08:01

Audit Action: Manually Integrated Audit Reason: Shouldering

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242004.D
Lims ID: ICRT L4
Client ID:
Sample Type: ICRT Calib Level: 4
Inject. Date: 24-Jun-2020 10:45:14 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: ICRT L4
Misc. Info.: 280-0092709-004
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 24-Jun-2020 12:39:59 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1017

First Level Reviewer: meierg Date: 24-Jun-2020 11:02:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.172	1.172	0.000	9092065	73.0	76.6	
2	1.578	1.578	0.000	8241315	73.0	76.2	
						RPD = 0.48	
3 Ethane							
1	1.457	1.457	0.000	16474689	136.9	143.7	
2	2.756	2.756	0.000	13906890	136.9	143.2	
						RPD = 0.34	
4 Ethylene							
1	1.779	1.779	0.000	12159201	127.7	132.5	
2	2.373	2.373	0.000	9735448	127.7	133.3	
						RPD = 0.59	
5 Propane							
1	2.682	2.682	0.000	25071225	200.7	212.3	
2	4.614	4.614	0.000	21208455	200.7	212.0	
						RPD = 0.16	
6 Acetylene							M
1	4.244	4.244	0.000	3287680	118.5	126.7	
2	2.488	2.488	0.000	4312506	118.5	125.6	M
						RPD = 0.87	
7 Butane							
1	4.554	4.554	0.000	29907332	264.5	273.2	
2	6.083	6.083	0.000	28030666	264.5	279.3	
						RPD = 2.20	
8 isobutylene							
1	5.392	5.392	0.000	19808714	255.4	276.5	
2	5.926	5.926	0.000	17460732	255.4	278.4	
						RPD = 0.68	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

RSK7gasMathes_00031 Amount Added: 200.00 Units: uL

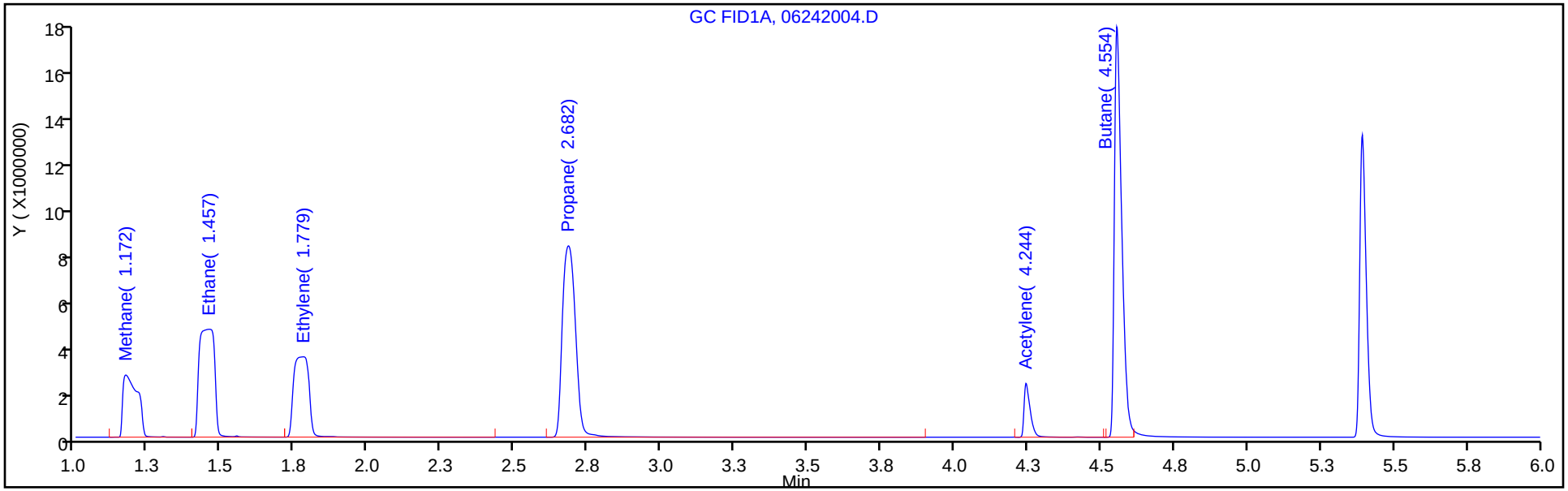
Report Date: 24-Jun-2020 12:40:00 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

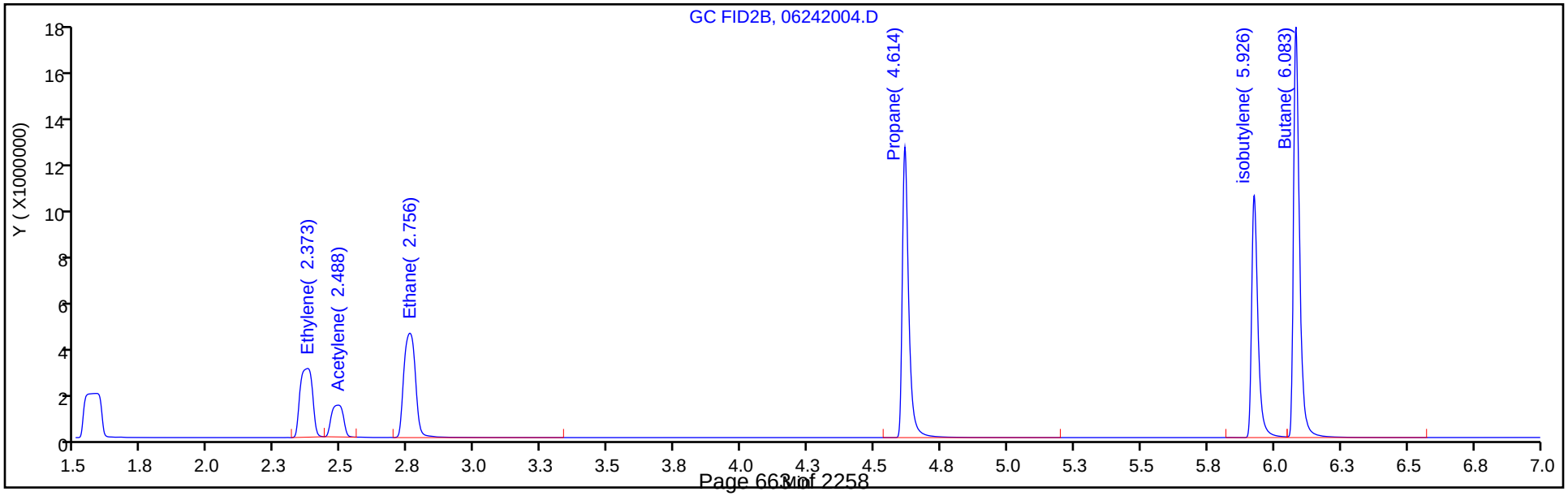
Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242004.D

Injection Date:	24-Jun-2020 10:45:14	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	ICRT L4			Worklist Smp#:	4
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

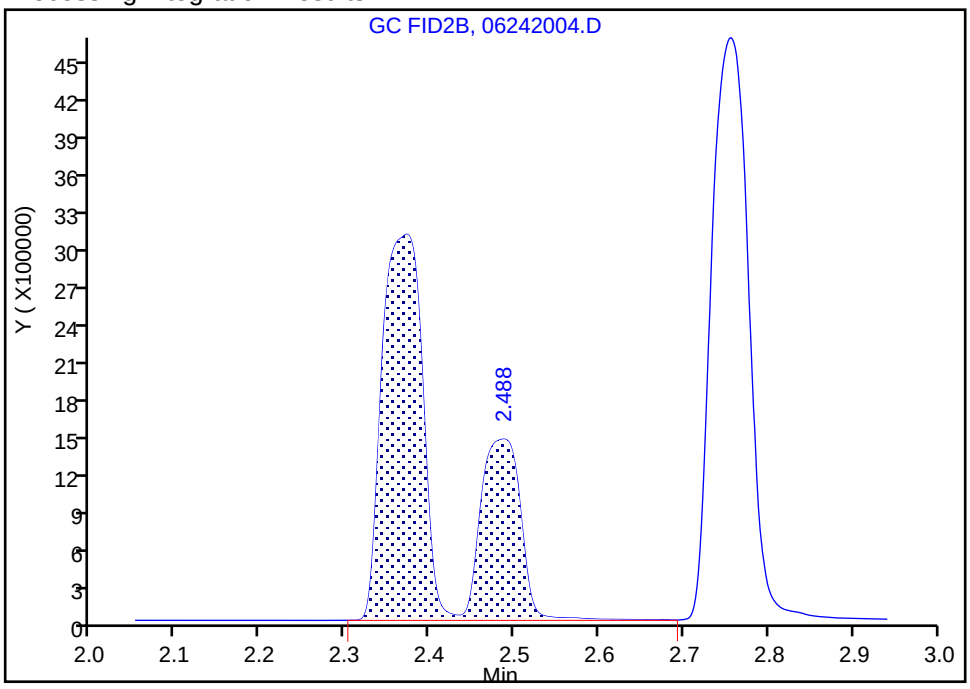
Data File:	\\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242004.D				
Injection Date:	24-Jun-2020 10:45:14	Instrument ID:	VGC_J		
Lims ID:	ICRT L4				
Client ID:					
Operator ID:	gm	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	18.000 mL	Dil. Factor:	1.0000		
Method:	RSK_J	Limit Group:	GCV - RSK 175		
Column:	HP-PLOT/Q (0.53 mm)	Detector	GC FID2B		

6 Acetylene, CAS: 74-86-2

Signal: 2

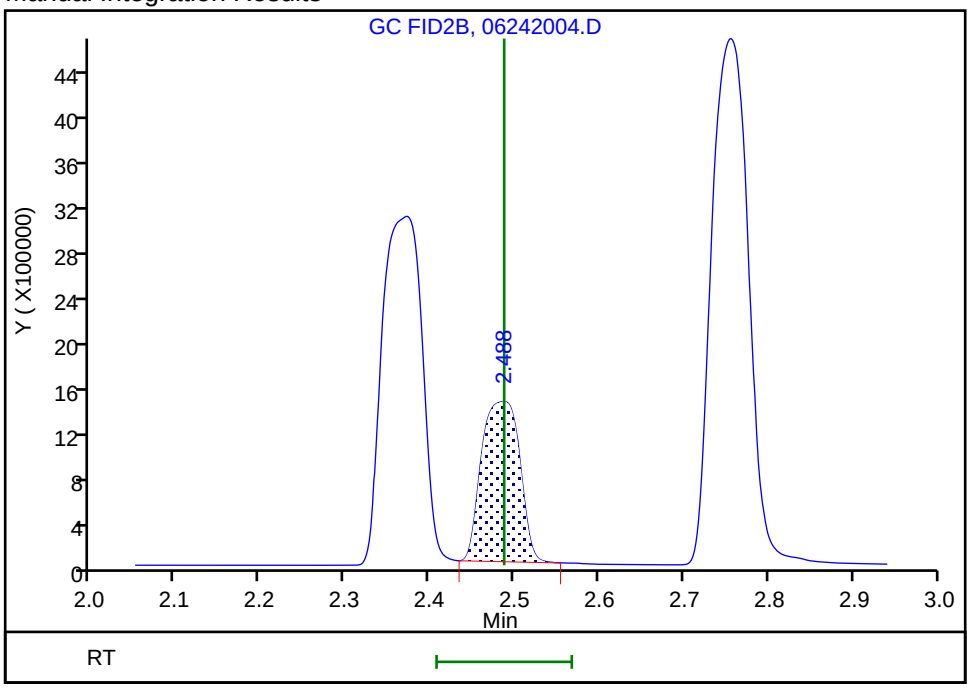
Processing Integration Results

RT: 2.49
Area: 14469565
Amount: 121.4408
Amount Units: ug/l



Manual Integration Results

RT: 2.49
Area: 4312506
Amount: 125.6236
Amount Units: ug/l



Reviewer: meierg, 24-Jun-2020 11:01:33

Audit Action: Manually Integrated Audit Reason: Shouldering

Report Date: 24-Jun-2020 12:40:00 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242005.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 24-Jun-2020 10:57:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: IC L5
Misc. Info.: 280-0092709-005
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 24-Jun-2020 12:40:00 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1017

First Level Reviewer: meierg Date: 24-Jun-2020 11:10:35

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.172	1.172	0.000	17468122	146.0	147.5	
2	1.577	1.577	0.000	15578914	146.0	144.4	
						RPD = 2.18	
3 Ethane							
1	1.462	1.462	0.000	30906100	273.7	269.6	
2	2.756	2.756	0.000	26361358	273.7	271.5	
						RPD = 0.70	
4 Ethylene							
1	1.779	1.779	0.000	23971500	255.3	261.2	
2	2.372	2.372	0.000	18569939	255.3	254.2	
						RPD = 2.71	
5 Propane							
1	2.676	2.676	0.000	46992293	401.4	398.0	
2	4.609	4.609	0.000	40116354	401.4	401.0	
						RPD = 0.76	
6 Acetylene							M
1	4.234	4.234	0.000	6232354	237.0	240.2	
2	2.486	2.486	0.000	8203389	237.0	239.0	M
						RPD = 0.53	
7 Butane							
1	4.541	4.541	0.000	57396046	529.0	523.6	
2	6.076	6.076	0.000	52957196	529.0	527.0	
						RPD = 0.64	
8 isobutylene							
1	5.381	5.381	0.000	37720673	510.8	526.6	
2	5.921	5.921	0.000	33259110	510.8	530.3	
						RPD = 0.70	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

RSK7gasMathes_00031 Amount Added: 400.00 Units: uL

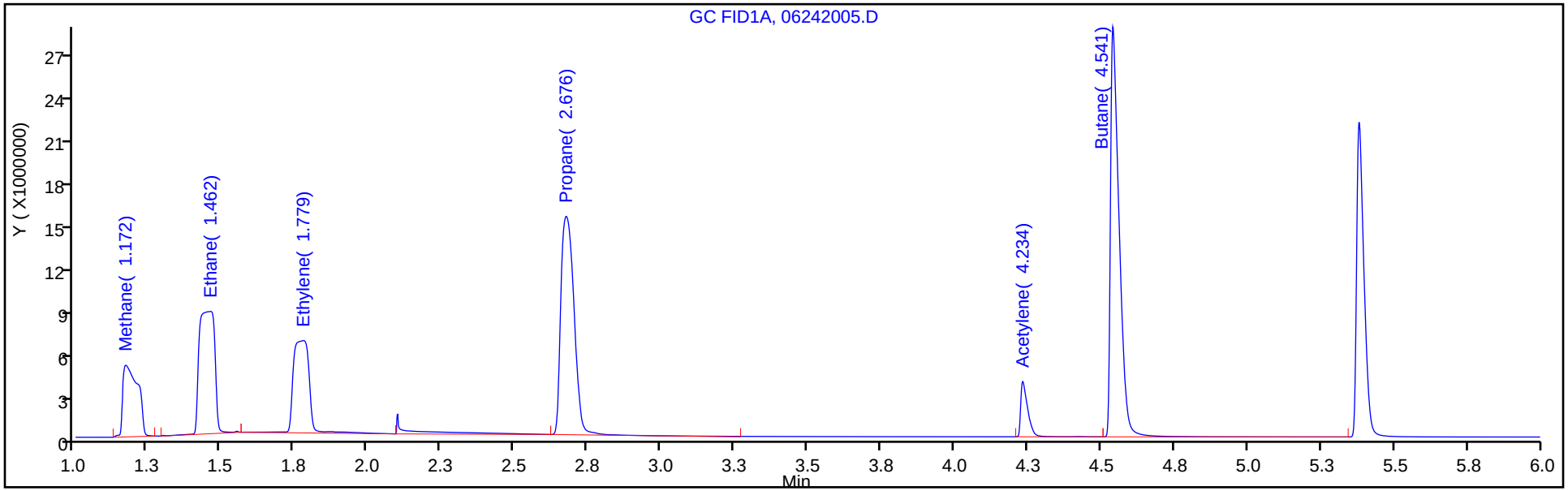
Report Date: 24-Jun-2020 12:40:00 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

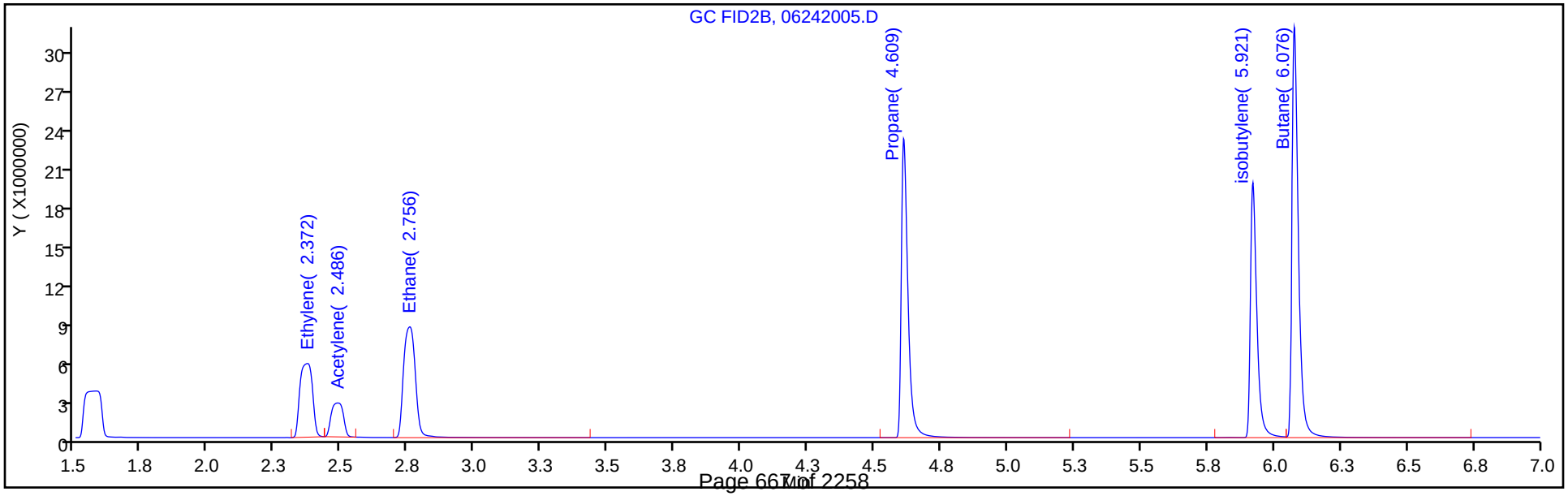
Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242005.D

Injection Date:	24-Jun-2020 10:57:30	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	IC L5			Worklist Smp#:	5
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

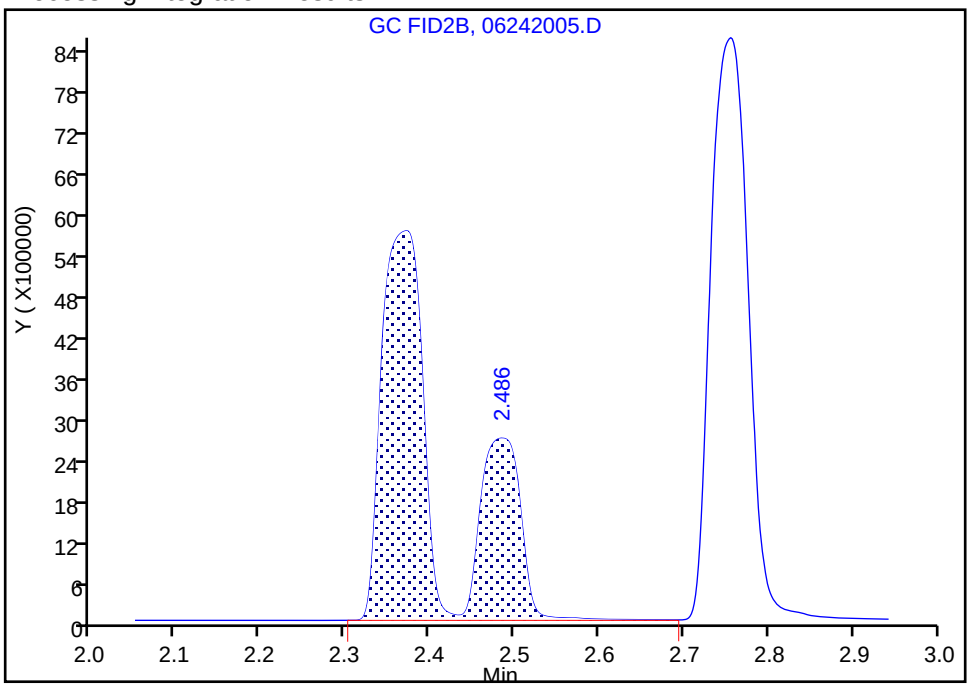
Data File:	\\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242005.D				
Injection Date:	24-Jun-2020 10:57:30	Instrument ID:	VGC_J		
Lims ID:	IC L5				
Client ID:					
Operator ID:	gm	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	18.000 mL	Dil. Factor:	1.0000		
Method:	RSK_J	Limit Group:	GCV - RSK 175		
Column:	HP-PLOT/Q (0.53 mm)	Detector	GC FID2B		

6 Acetylene, CAS: 74-86-2

Signal: 2

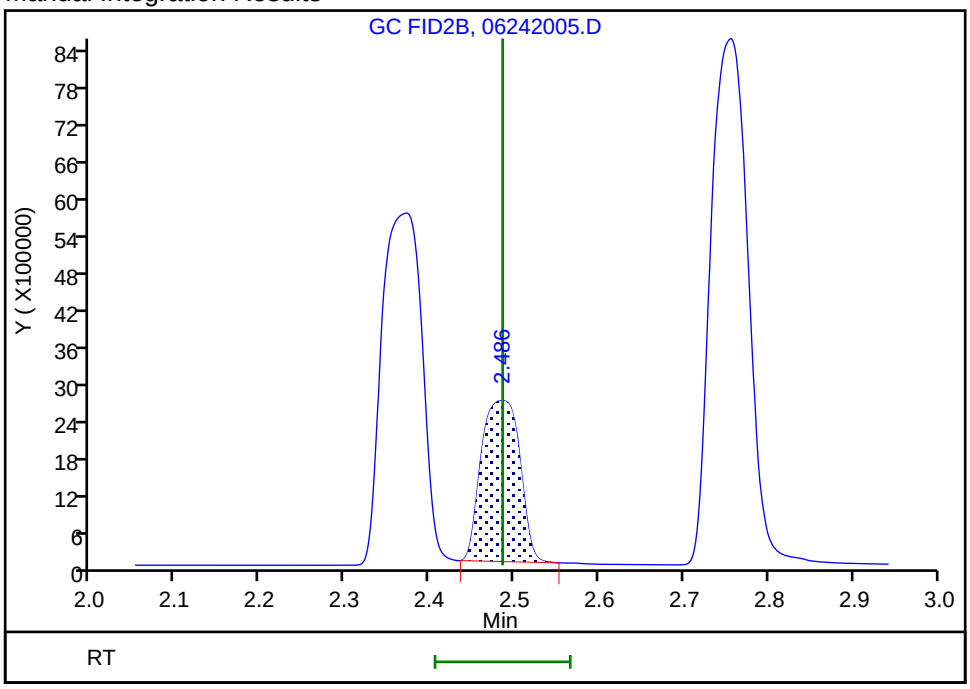
Processing Integration Results

RT: 2.49
Area: 27589208
Amount: 237.3114
Amount Units: ug/l



Manual Integration Results

RT: 2.49
Area: 8203389
Amount: 238.9653
Amount Units: ug/l



Reviewer: meierg, 24-Jun-2020 11:09:21

Audit Action: Manually Integrated Audit Reason: Shouldering

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242006.D
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 24-Jun-2020 11:09:45 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: IC L6
Misc. Info.: 280-0092709-006
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 24-Jun-2020 12:40:01 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1017

First Level Reviewer: meierg Date: 24-Jun-2020 11:22:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.168	1.172	-0.004	34804015	292.0	294.4	
2	1.576	1.577	-0.001	31463322	292.0	291.8	
						RPD = 0.87	
3 Ethane							
1	1.458	1.462	-0.004	63053378	547.4	550.1	
2	2.750	2.756	-0.006	53331817	547.4	549.4	
						RPD = 0.14	
4 Ethylene							
1	1.771	1.779	-0.008	46705608	510.7	508.9	
2	2.366	2.372	-0.006	37428833	510.7	512.4	
						RPD = 0.68	
5 Propane							
1	2.658	2.676	-0.018	95948907	802.8	812.6	
2	4.601	4.609	-0.008	81456479	802.8	814.2	
						RPD = 0.20	
6 Acetylene							Ma
1	4.216	4.234	-0.018	12537110	474.1	483.3	M
2	2.485	2.486	-0.001	16738973	474.1	487.6	M
						RPD = 0.90	
7 Butane							Ma
1	4.521	4.541	-0.020	114699787	1058.1	1045.8	M
2	6.066	6.076	-0.010	103377764	1058.1	1028.2	M
						RPD = 1.70	
8 isobutylene							M
1	5.365	5.381	-0.016	76413104	1021.5	1066.7	
2	5.913	5.921	-0.008	66173382	1021.5	1055.1	M
						RPD = 1.10	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031 Amount Added: 800.00 Units: uL

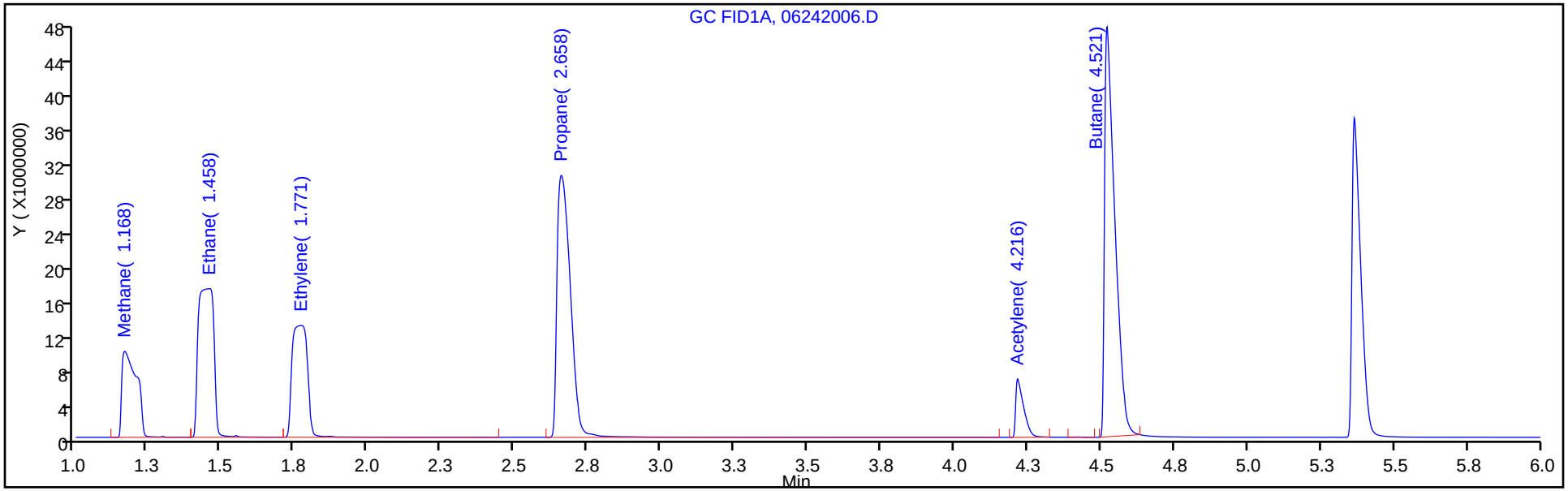
Report Date: 24-Jun-2020 12:40:01 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

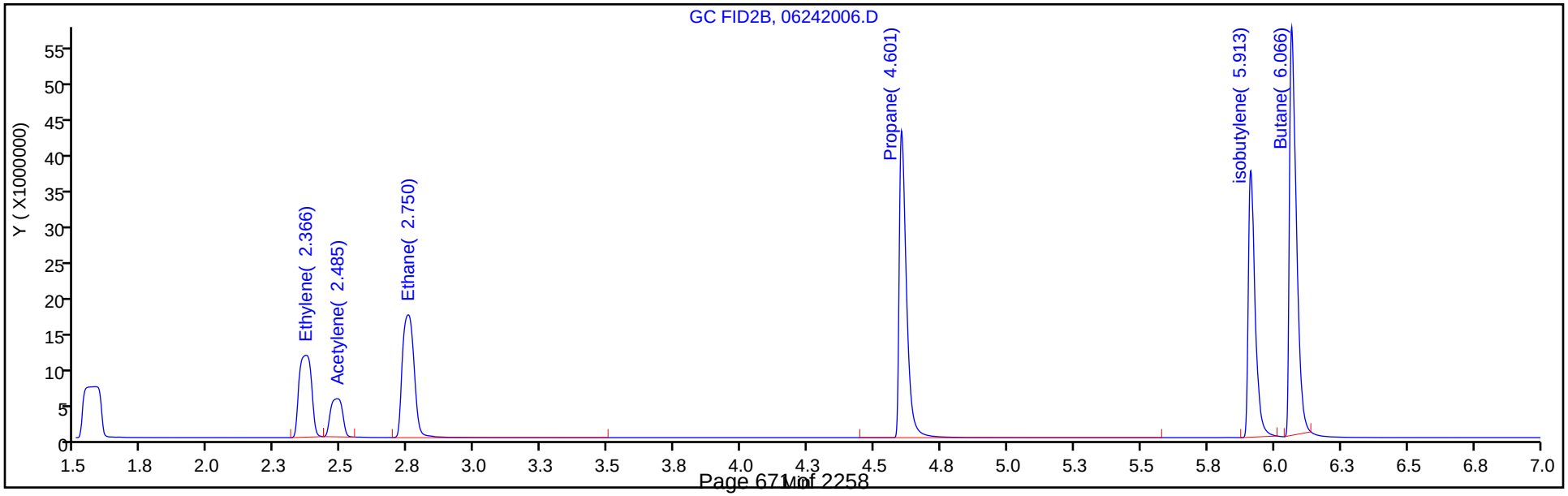
Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242006.D

Injection Date:	24-Jun-2020 11:09:45	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	IC L6			Worklist Smp#:	6
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

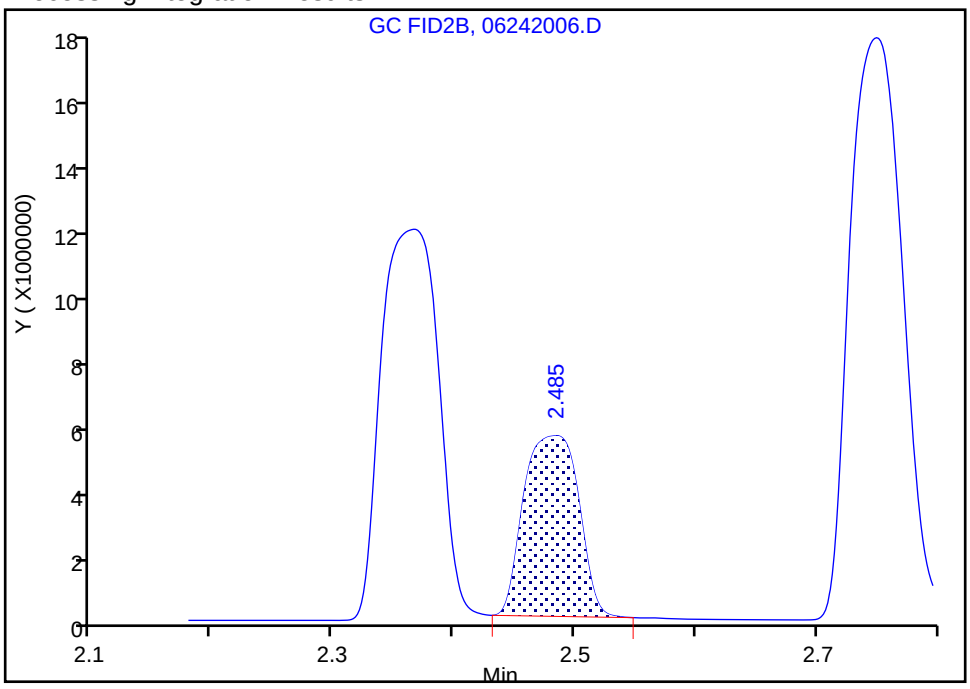
Data File:	\\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242006.D				
Injection Date:	24-Jun-2020 11:09:45	Instrument ID:	VGC_J		
Lims ID:	IC L6				
Client ID:					
Operator ID:	gm	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	18.000 mL	Dil. Factor:	1.0000		
Method:	RSK_J	Limit Group:	GCV - RSK 175		
Column:	HP-PLOT/Q (0.53 mm)	Detector	GC FID2B		

6 Acetylene, CAS: 74-86-2

Signal: 2

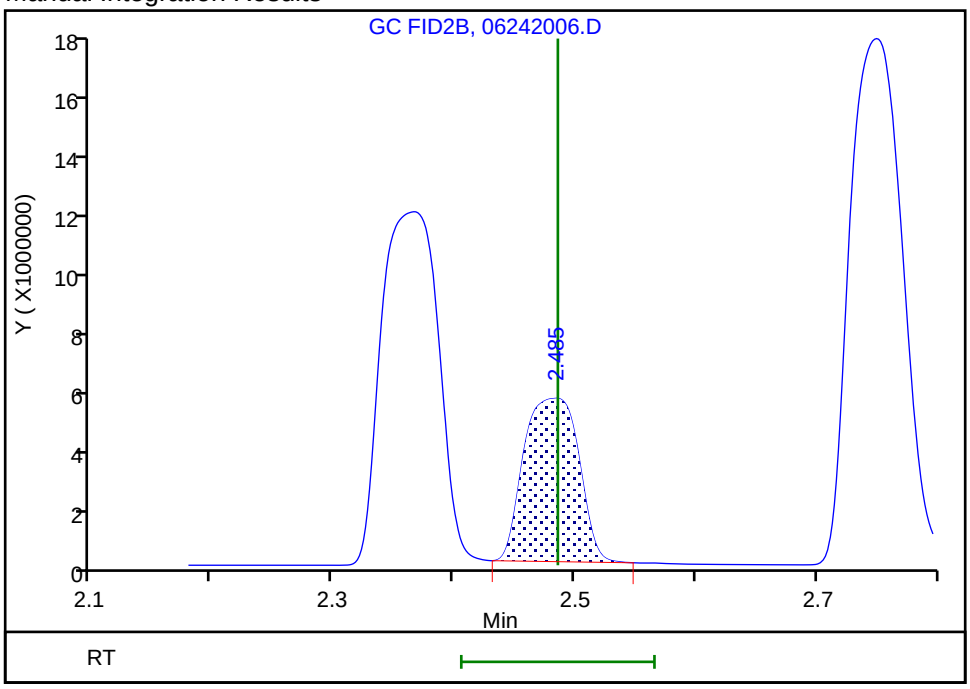
Processing Integration Results

RT: 2.48
Area: 16738973
Amount: 487.6074
Amount Units: ug/l



Manual Integration Results

RT: 2.48
Area: 16738973
Amount: 487.6074
Amount Units: ug/l



Reviewer: meierg, 24-Jun-2020 11:22:42

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Peak not integrated

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242007.D
Lims ID: IC L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 24-Jun-2020 11:22:02 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: IC L7
Misc. Info.: 280-0092709-007
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 24-Jun-2020 12:40:02 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1017

First Level Reviewer: meierg Date: 24-Jun-2020 11:34:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.172	1.172	0.000	208468313	1806.9	1765.4	
2	1.576	1.577	-0.001	189546256	1806.9	1759.6	
						RPD = 0.33	

Reagents:

RSK175methane_00010 Amount Added: 50.00 Units: uL

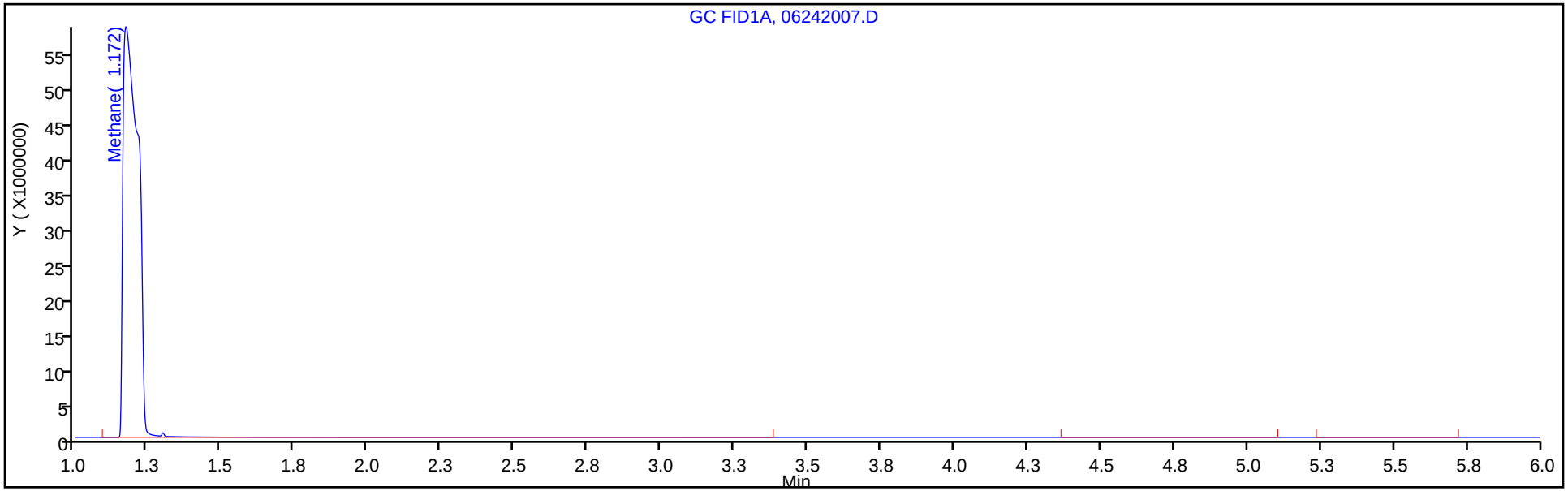
Report Date: 24-Jun-2020 12:40:02 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

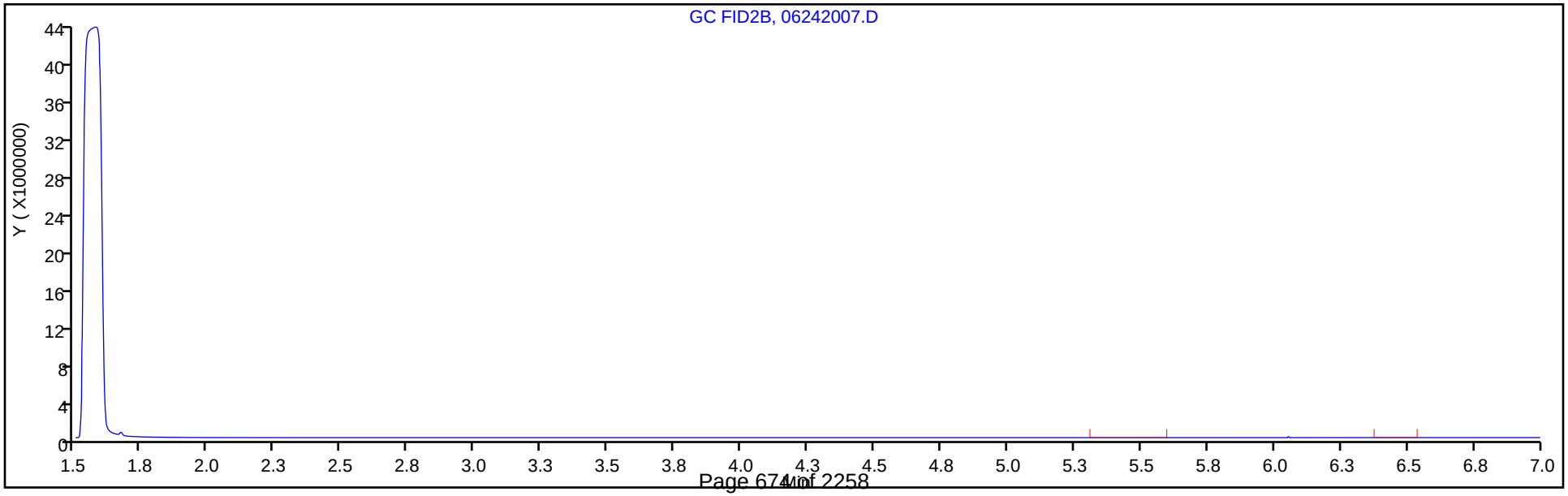
Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242007.D

Injection Date:	24-Jun-2020 11:22:02	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	IC L7			Worklist Smp#:	7
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242008.D
Lims ID: IC L8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 24-Jun-2020 11:34:17 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: IC L8
Misc. Info.: 280-0092709-008
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 24-Jun-2020 12:40:02 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1017

First Level Reviewer: meierg Date: 24-Jun-2020 11:49:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.169	1.172	-0.003	829291020	7227.8	7023.8	
2	1.571	1.577	-0.006	768036307	7227.8	7130.5	
						RPD = 1.51	

Reagents:

RSK175methane_00010 Amount Added: 200.00 Units: uL

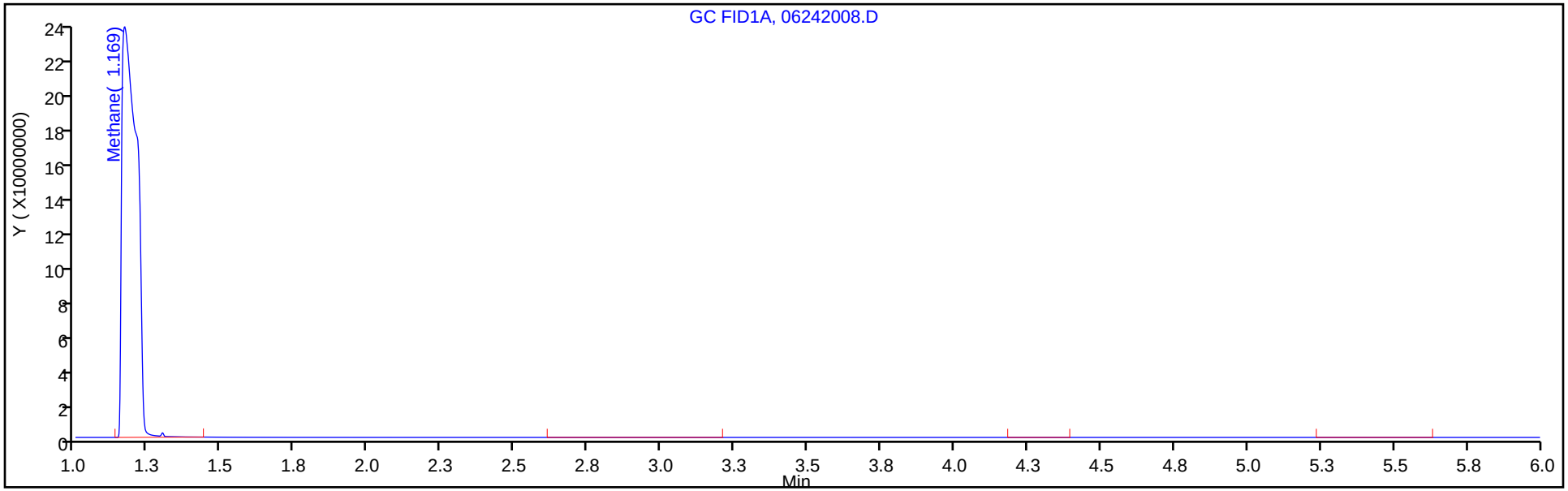
Report Date: 24-Jun-2020 12:40:02 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

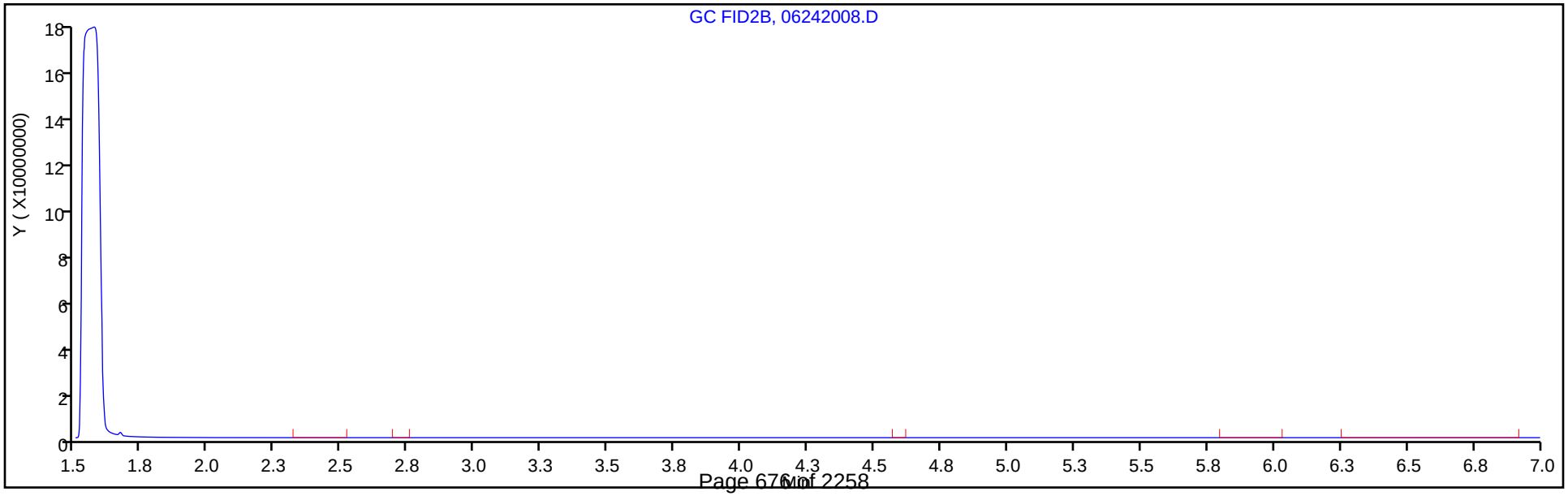
Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242008.D

Injection Date:	24-Jun-2020 11:34:17	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	IC L8			Worklist Smp#:	8
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D
Lims ID: IC L9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 24-Jun-2020 11:46:32 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: IC L9
Misc. Info.: 280-0092709-009
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 24-Jun-2020 12:40:03 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1017

First Level Reviewer: meierg Date: 24-Jun-2020 11:58:37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.163	1.172	-0.009	2294825441	21683	19437	
2	1.560	1.577	-0.017	2136573736	21683	19837	
						RPD = 2.03	

Reagents:

RSK175methane_00010 Amount Added: 600.00 Units: uL

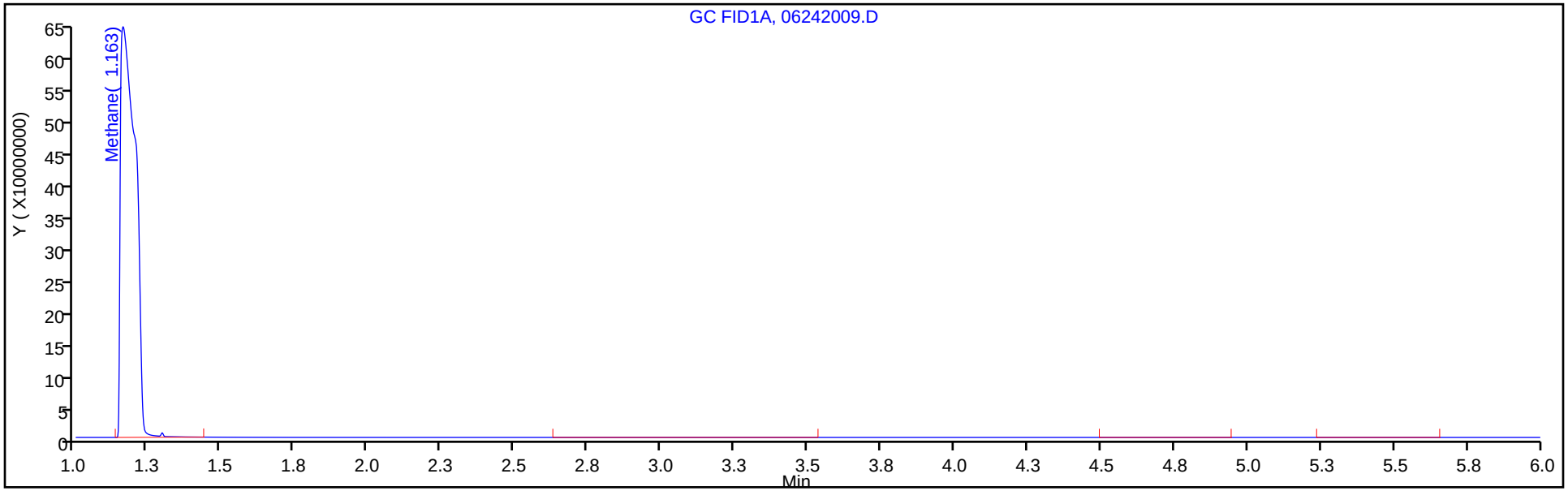
Report Date: 24-Jun-2020 12:40:03 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

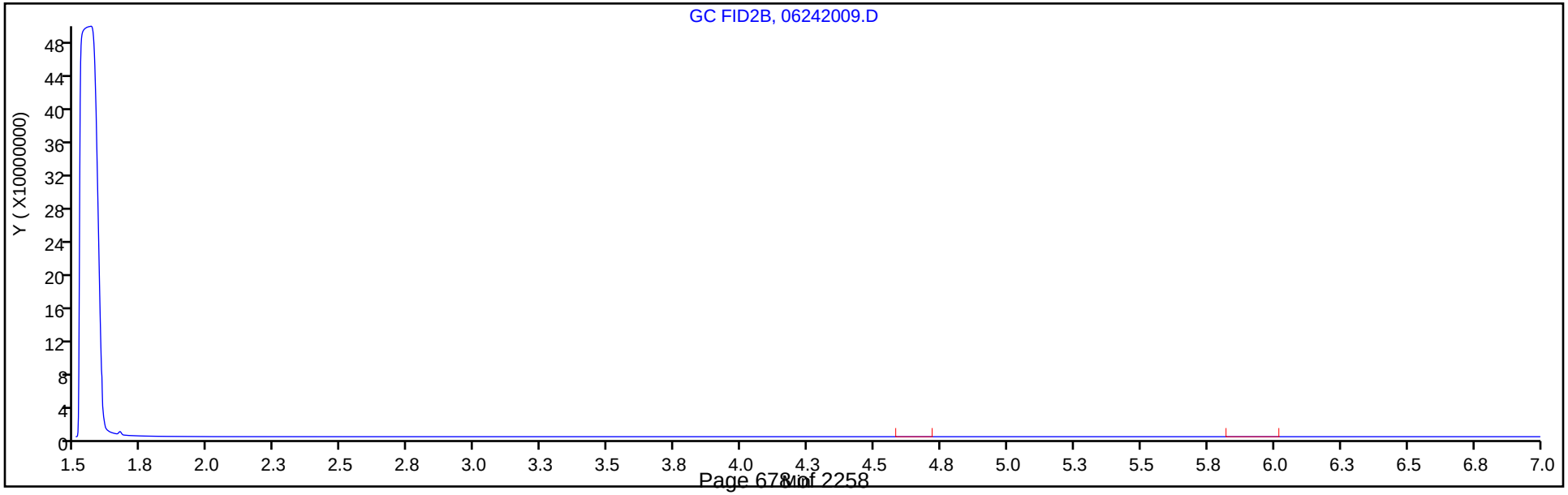
Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Injection Date:	24-Jun-2020 11:46:32	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	IC L9			Worklist Smp#:	9
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: ICV 280-499937/11 Calibration Date: 06/24/2020 12:11

Instrument ID: VGC_J Calib Start Date: 06/24/2020 10:08

GC Column: Rt-Alumina KCl ID: 0.53(mm) Calib End Date: 06/24/2020 11:46

Lab File ID: 06242011.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin2		106034		65.2	73.0	-10.8	20.0
Ethane	Ave	114619	103590		124	137	-9.6	20.0
Ethylene	Ave	91780	85095		118	128	-7.3	20.0
Acetylene	Ave	25943	27039		124	119	4.2	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: ICV 280-499937/11 Calibration Date: 06/24/2020 12:11

Instrument ID: VGC_J Calib Start Date: 06/24/2020 10:08

GC Column: Rt-Alumina KCl ID: 0.53(mm) Calib End Date: 06/24/2020 11:46

Lab File ID: 06242011.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.17	1.13	1.21
Ethane	1.45	1.41	1.51
Ethylene	1.77	1.73	1.83
Acetylene	4.23	4.15	4.31

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242011.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 24-Jun-2020 12:11:02 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 280-0092709-011
Operator ID: gm Instrument ID: VGC_J
Sublist:

Method: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 24-Jun-2020 12:48:56 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1017

First Level Reviewer: meierg Date: 24-Jun-2020 12:48:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.169	1.172	-0.003	7740803	73.0	65.2	
2	1.574	1.577	-0.003	7044681	73.0	65.1	
						RPD = 0.04	
3 Ethane							
1	1.452	1.462	-0.010	14176818	136.9	123.7	
2	2.753	2.756	-0.003	11975757	136.9	123.4	
						RPD = 0.27	
4 Ethylene							
1	1.772	1.779	-0.007	10863846	127.7	118.4	
2	2.368	2.372	-0.004	8712711	127.7	119.3	
						RPD = 0.76	
5 Propane							
1	2.672	2.676	-0.004	21556737	200.7	182.6	
2	4.613	4.609	0.004	18266394	200.7	182.6	
						RPD = 0.01	
6 Acetylene							M
1	4.232	4.234	-0.002	3204718	118.5	123.5	
2	2.483	2.486	-0.003	4204612	118.5	122.5	M
						RPD = 0.85	
7 Butane							M
1	4.547	4.541	0.006	25888359	264.5	236.6	M
2	6.083	6.076	0.007	24281133	264.5	242.0	
						RPD = 2.27	
8 isobutylene							
1	5.382	5.381	0.001	18103424	255.4	252.7	
2	5.924	5.921	0.003	15917479	255.4	253.8	
						RPD = 0.42	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

RSK7gasMathes_00027 Amount Added: 200.00 Units: uL

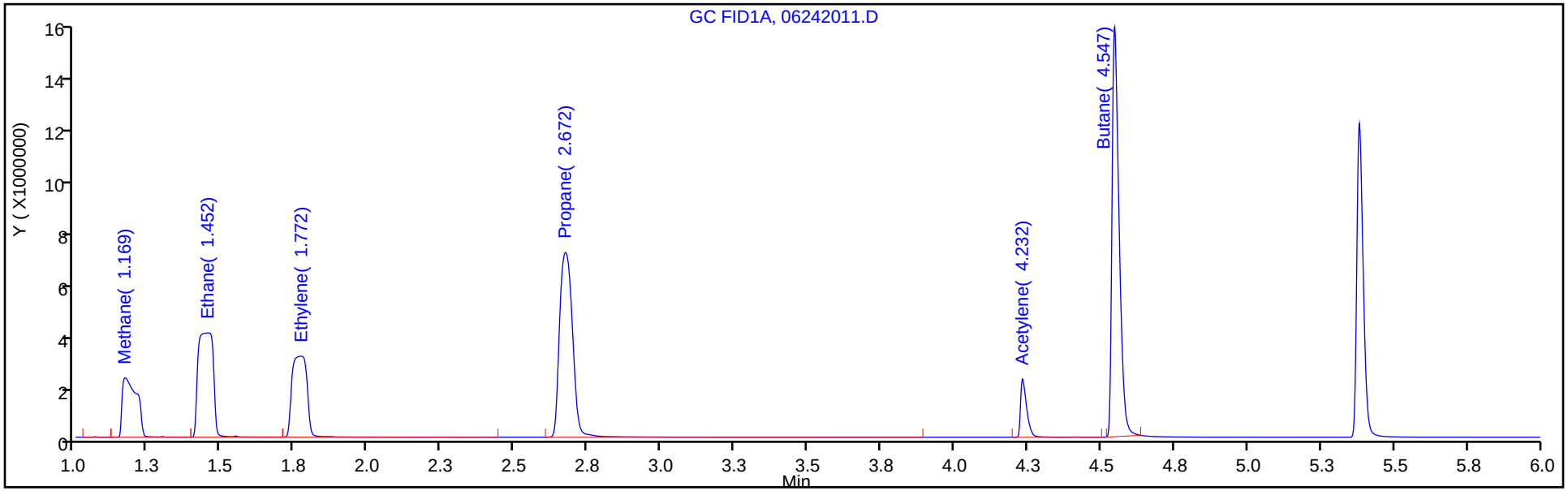
Report Date: 24-Jun-2020 12:48:57 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

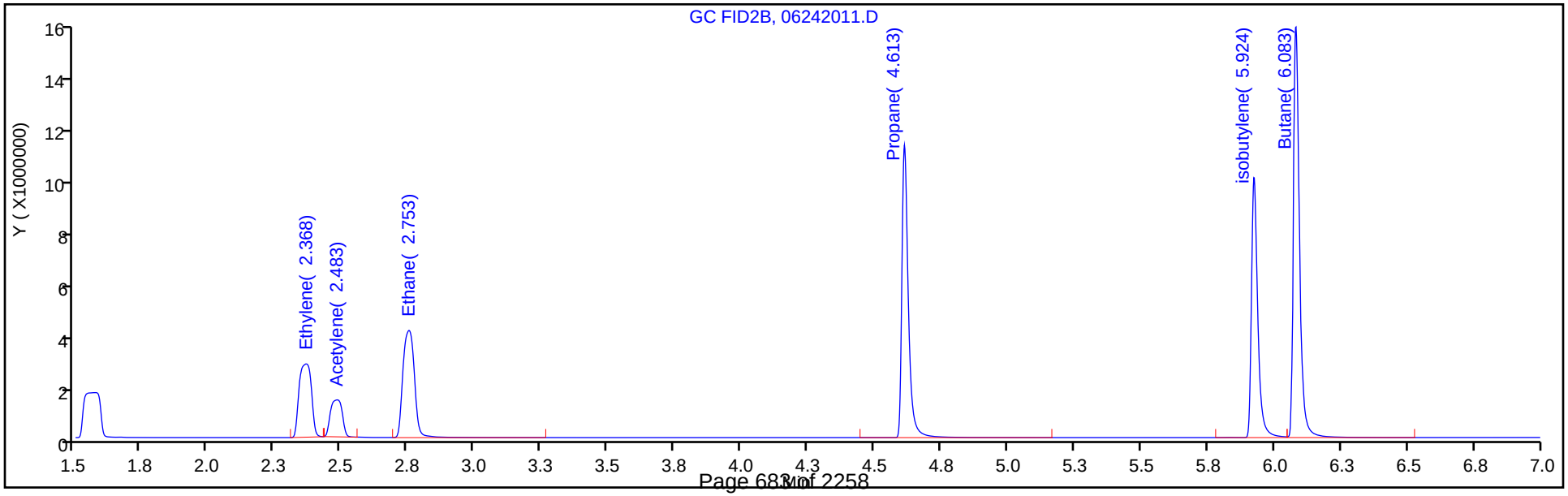
Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242011.D

Injection Date:	24-Jun-2020 12:11:02	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	ICV			Worklist Smp#:	11
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: ICV 280-499937/11 Calibration Date: 06/24/2020 12:11

Instrument ID: VGC_J Calib Start Date: 06/24/2020 10:08

GC Column: HP-Plot Q ID: 0.53(mm) Calib End Date: 06/24/2020 11:46

Lab File ID: 06242011.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin2		96498		65.1	73.0	-10.8	20.0
Ethylene	Ave	73049	68246		119	128	-6.6	20.0
Acetylene	Ave	34329	35475		122	119	3.3	20.0
Ethane	Ave	97082	87507		123	137	-9.9	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: ICV 280-499937/11 Calibration Date: 06/24/2020 12:11

Instrument ID: VGC_J Calib Start Date: 06/24/2020 10:08

GC Column: HP-Plot Q ID: 0.53(mm) Calib End Date: 06/24/2020 11:46

Lab File ID: 06242011.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.57	1.54	1.62
Ethylene	2.37	2.32	2.42
Acetylene	2.48	2.41	2.57
Ethane	2.75	2.71	2.81

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242011.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 24-Jun-2020 12:11:02 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 280-0092709-011
Operator ID: gm Instrument ID: VGC_J
Sublist:

Method: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 24-Jun-2020 12:48:56 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1017

First Level Reviewer: meierg Date: 24-Jun-2020 12:48:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.169	1.172	-0.003	7740803	73.0	65.2	
2	1.574	1.577	-0.003	7044681	73.0	65.1	
						RPD = 0.04	
3 Ethane							
1	1.452	1.462	-0.010	14176818	136.9	123.7	
2	2.753	2.756	-0.003	11975757	136.9	123.4	
						RPD = 0.27	
4 Ethylene							
1	1.772	1.779	-0.007	10863846	127.7	118.4	
2	2.368	2.372	-0.004	8712711	127.7	119.3	
						RPD = 0.76	
5 Propane							
1	2.672	2.676	-0.004	21556737	200.7	182.6	
2	4.613	4.609	0.004	18266394	200.7	182.6	
						RPD = 0.01	
6 Acetylene							M
1	4.232	4.234	-0.002	3204718	118.5	123.5	
2	2.483	2.486	-0.003	4204612	118.5	122.5	M
						RPD = 0.85	
7 Butane							M
1	4.547	4.541	0.006	25888359	264.5	236.6	M
2	6.083	6.076	0.007	24281133	264.5	242.0	
						RPD = 2.27	
8 isobutylene							
1	5.382	5.381	0.001	18103424	255.4	252.7	
2	5.924	5.921	0.003	15917479	255.4	253.8	
						RPD = 0.42	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

RSK7gasMathes_00027 Amount Added: 200.00 Units: uL

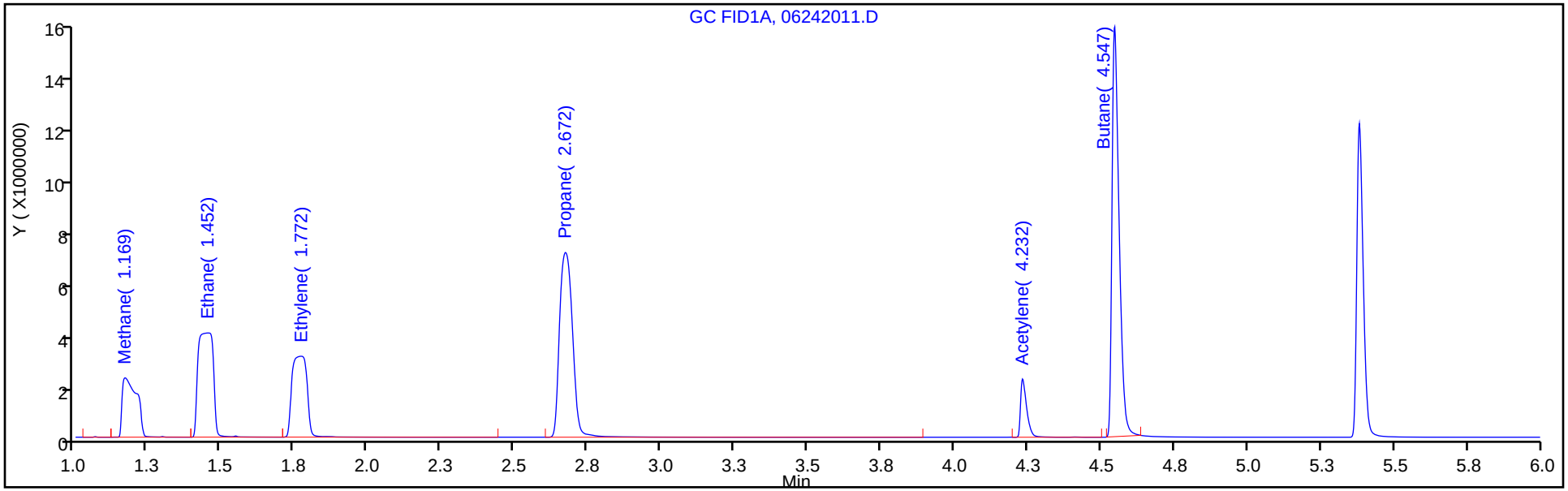
Report Date: 24-Jun-2020 12:48:57 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

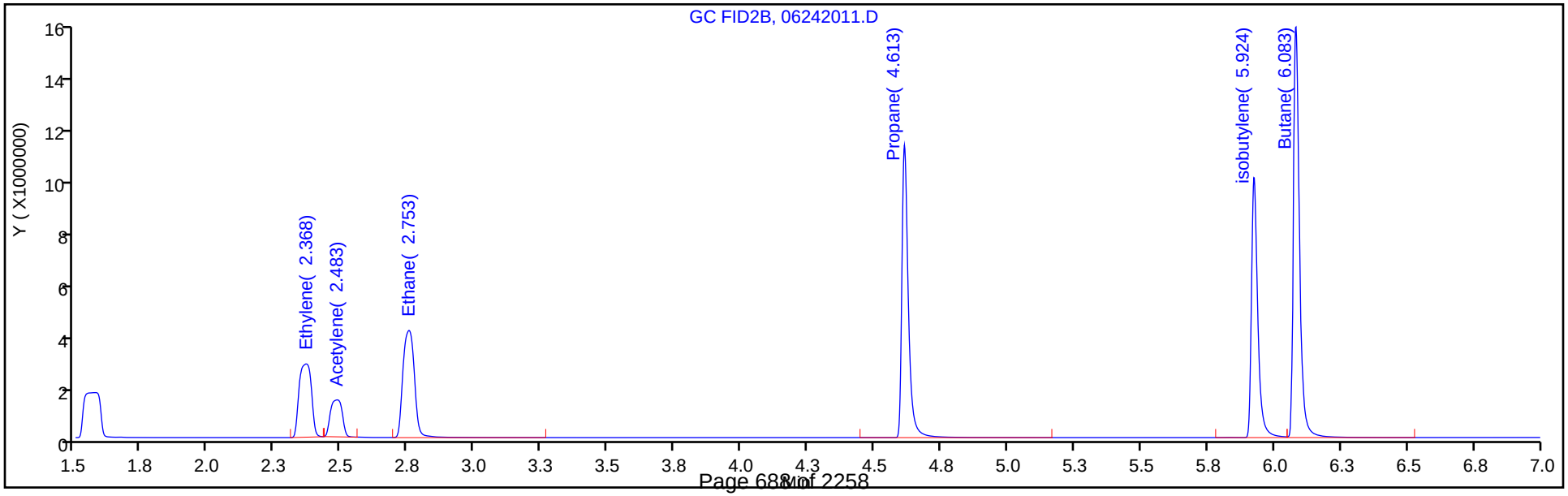
Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242011.D

Injection Date:	24-Jun-2020 12:11:02	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	ICV			Worklist Smp#:	11
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

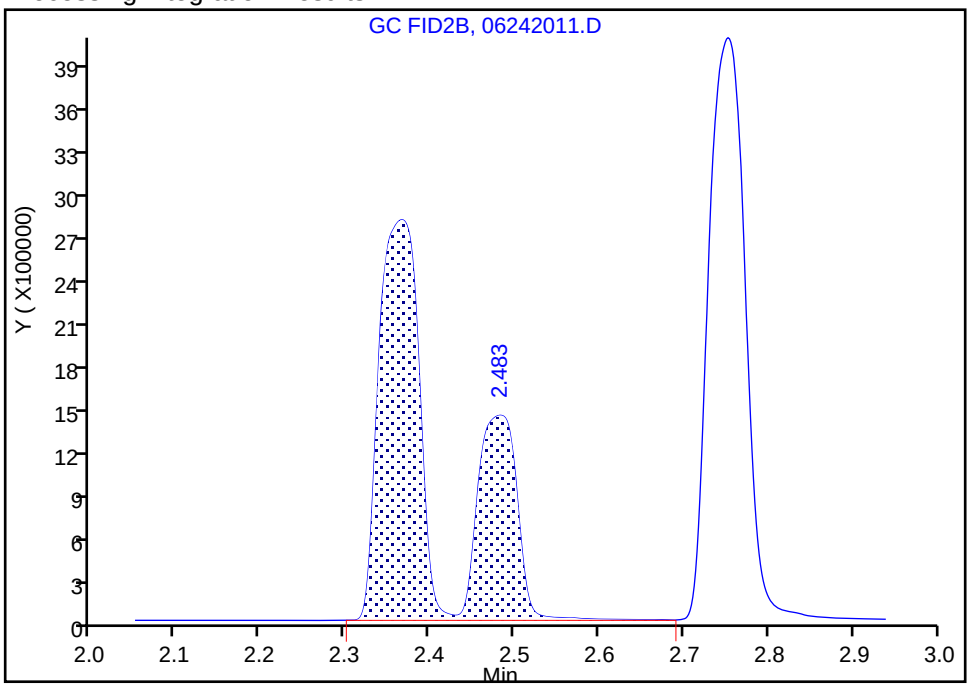
Data File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242011.D
Injection Date: 24-Jun-2020 12:11:02 Instrument ID: VGC_J
Lims ID: ICV
Client ID:
Operator ID: gm ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: HP-PLOT/Q (0.53 mm) Detector GC FID2B

6 Acetylene, CAS: 74-86-2

Signal: 2

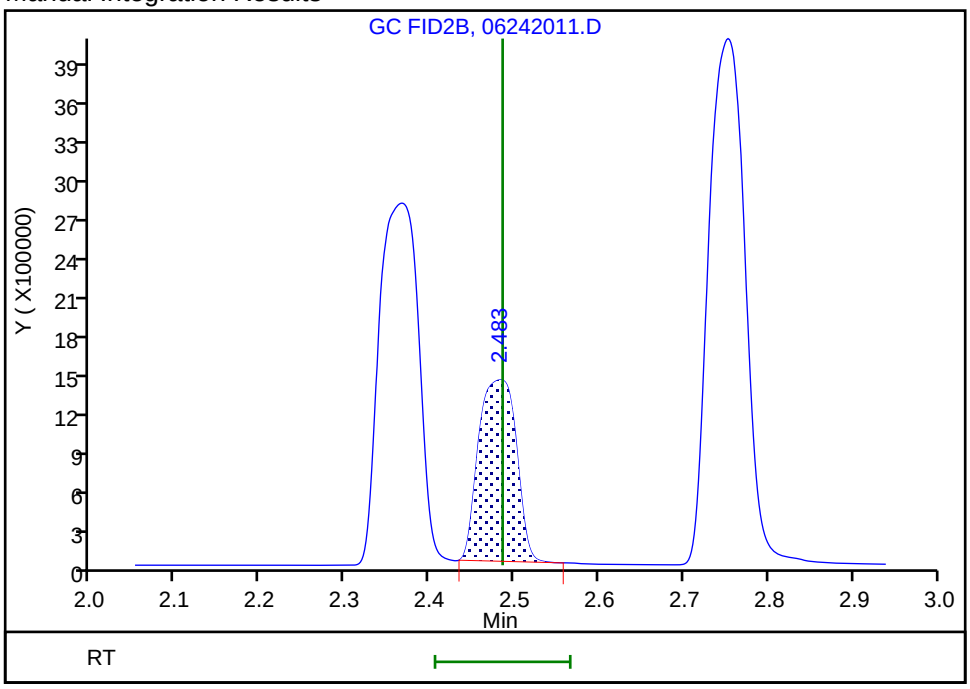
Processing Integration Results

RT: 2.48
Area: 13313502
Amount: 387.8232
Amount Units: ug/l



Manual Integration Results

RT: 2.48
Area: 4204612
Amount: 122.4806
Amount Units: ug/l



Reviewer: meierg, 24-Jun-2020 12:29:59
Audit Action: Manually Integrated Audit Reason: Shouldering

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCVRT 280-500092/1 Calibration Date: 06/25/2020 11:33

Instrument ID: VGC_J Calib Start Date: 06/24/2020 10:08

GC Column: Rt-Alumina KCl ID: 0.53(mm) Calib End Date: 06/24/2020 11:46

Lab File ID: 06252001.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin2		118219		72.7	73.0	-0.4	20.0
Ethane	Ave	114619	113385		135	137	-1.1	20.0
Ethylene	Ave	91780	91444		127	128	-0.4	20.0
Acetylene	Ave	25943	25438		116	119	-1.9	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCVRT 280-500092/1 Calibration Date: 06/25/2020 11:33

Instrument ID: VGC_J Calib Start Date: 06/24/2020 10:08

GC Column: Rt-Alumina KCl ID: 0.53(mm) Calib End Date: 06/24/2020 11:46

Lab File ID: 06252001.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.18	1.14	1.22
Ethane	1.47	1.42	1.52
Ethylene	1.79	1.74	1.84
Acetylene	4.23	4.15	4.31

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252001.D
Lims ID: CCVRT
Client ID:
Sample Type: CCVRT
Inject. Date: 25-Jun-2020 11:33:25 ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: CCVRT
Misc. Info.: 280-0092746-001
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 09:09:24 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.182	1.182	0.000	8630368	73.0	72.7	
2	1.591	1.591	0.000	7839726	73.0	72.5	
						RPD = 0.25	
3 Ethane							M
1	1.470	1.470	0.000	15517419	136.9	135.4	
2	2.766	2.766	0.000	12455867	136.9	128.3	M
						RPD = 5.37	
4 Ethylene							M
1	1.787	1.787	0.000	11674327	127.7	127.2	
2	2.382	2.382	0.000	9264741	127.7	126.8	M
						RPD = 0.29	
5 Propane							M
1	2.692	2.692	0.000	23716001	200.7	200.9	
2	4.616	4.616	0.000	18937923	200.7	189.3	M
						RPD = 5.92	
6 Acetylene							Ma
1	4.225	4.225	0.000	3015006	118.5	116.2	M
2	2.497	2.497	0.000	4021672	118.5	117.2	M
						RPD = 0.80	
7 Butane							M
1	4.550	4.550	0.000	27987031	264.5	255.7	M
2	6.086	6.086	0.000	25822595	264.5	257.3	M
						RPD = 0.64	
8 isobutylene							Ma
1	5.382	5.382	0.000	18687134	255.4	260.9	M
2	5.927	5.927	0.000	15543050	255.4	247.8	M
						RPD = 5.13	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031 Amount Added: 200.00 Units: uL

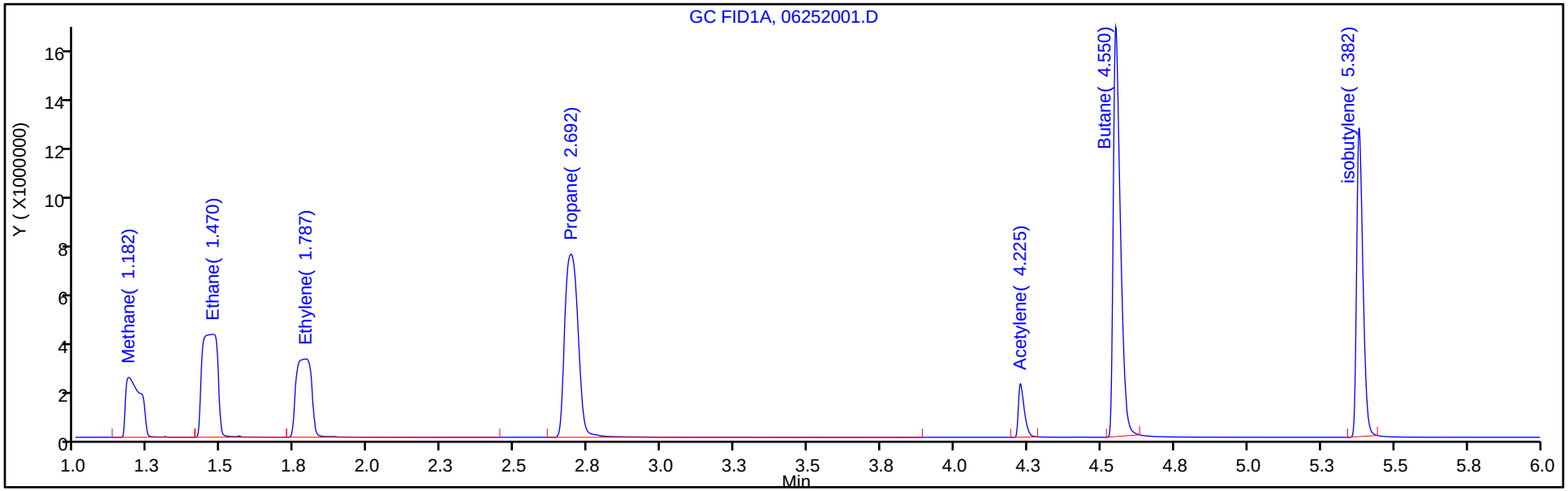
Report Date: 26-Jun-2020 09:09:24 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

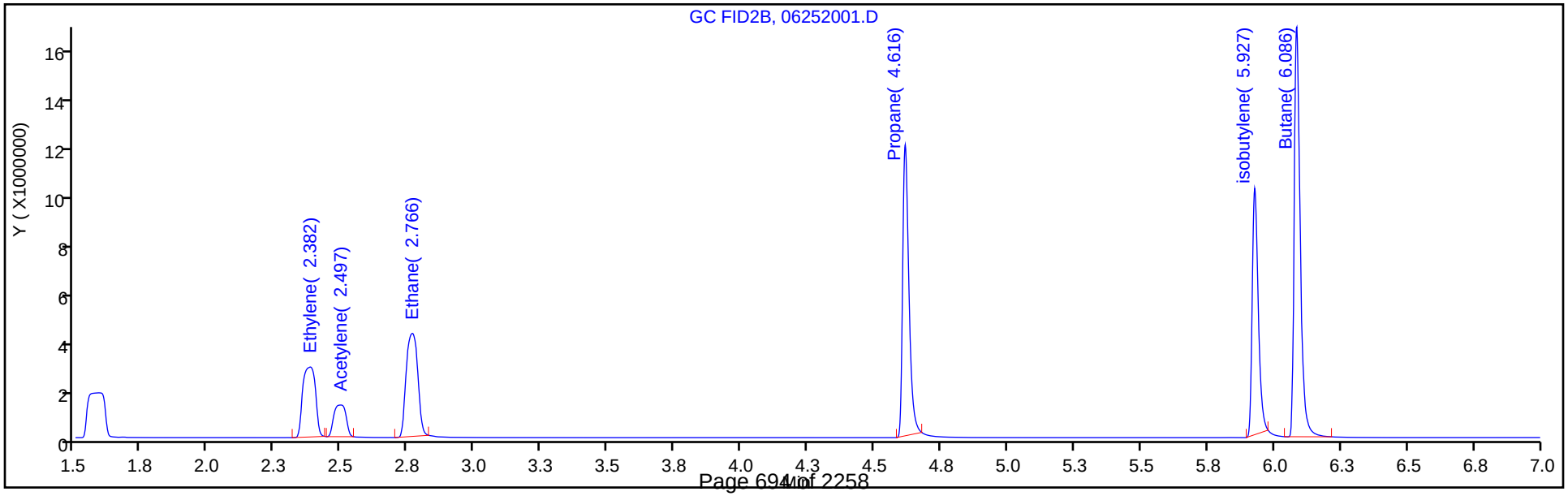
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252001.D

Injection Date:	25-Jun-2020 11:33:25	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	CCVRT			Worklist Smp#:	1
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

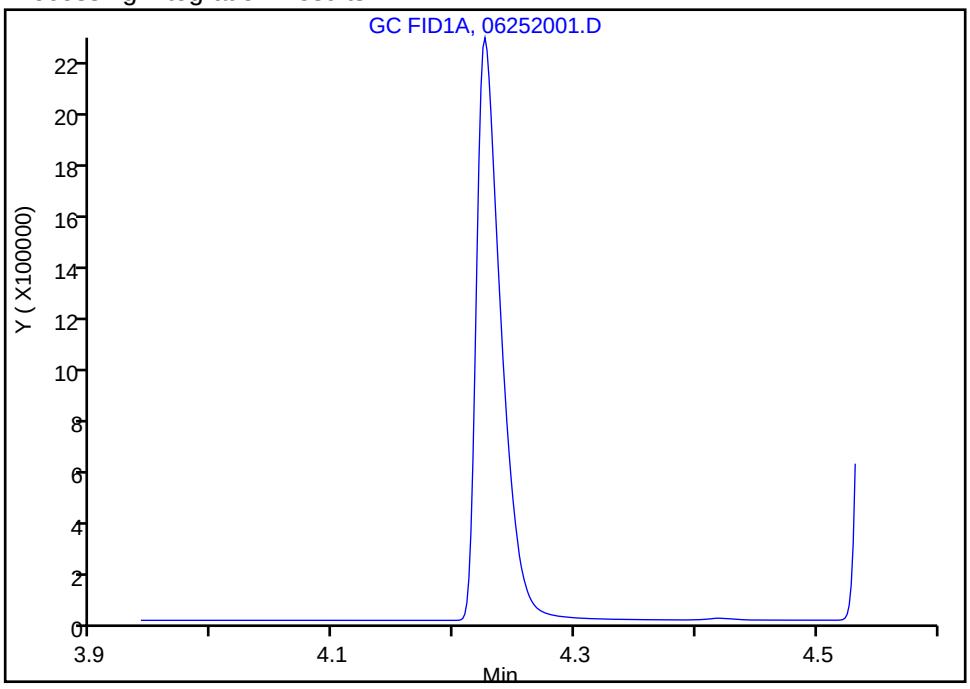
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252001.D
Injection Date: 25-Jun-2020 11:33:25 Instrument ID: VGC_J
Lims ID: CCVRT
Client ID:
Operator ID: gm ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: Rt-Alumina BOND/KCl (0.53 mm) Detector GC FID1A

6 Acetylene, CAS: 74-86-2

Signal: 1

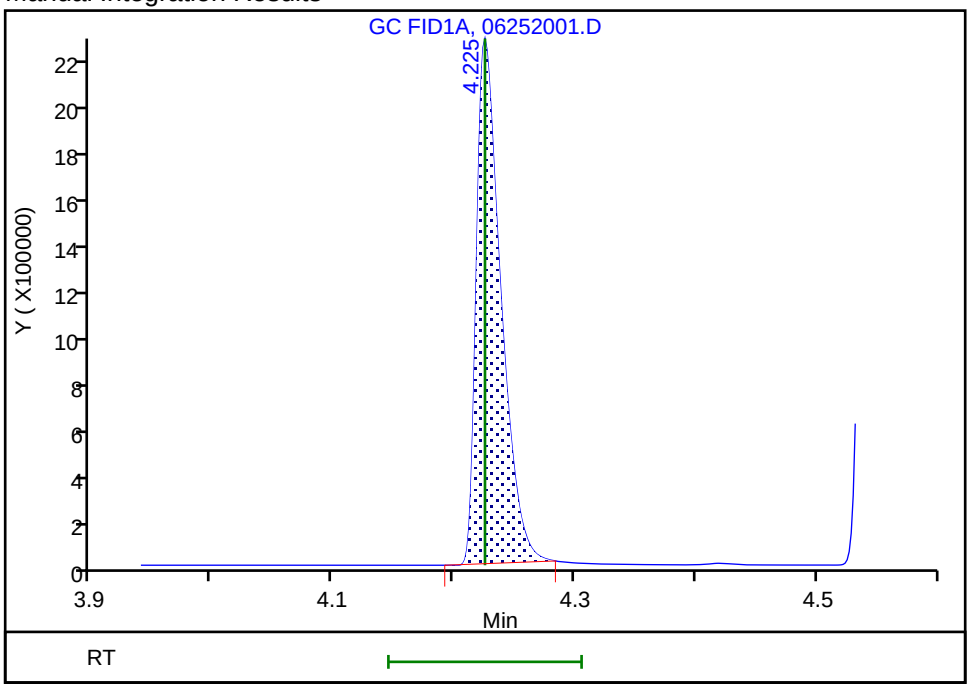
Processing Integration Results

RT: 4.23
Area: 0
Amount: 117.1516
Amount Units: ug/l



Manual Integration Results

RT: 4.23
Area: 3015006
Amount: 116.2166
Amount Units: ug/l



Reviewer: meierg, 25-Jun-2020 11:50:28
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Peak not integrated

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCVRT 280-500092/1 Calibration Date: 06/25/2020 11:33

Instrument ID: VGC_J Calib Start Date: 06/24/2020 10:08

GC Column: HP-Plot Q ID: 0.53(mm) Calib End Date: 06/24/2020 11:46

Lab File ID: 06252001.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin2		107389		72.5	73.0	-0.7	20.0
Ethylene	Ave	73049	72570		127	128	-0.7	20.0
Acetylene	Ave	34329	33932		117	119	-1.2	20.0
Ethane	Ave	97082	91015		128	137	-6.2	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCVRT 280-500092/1 Calibration Date: 06/25/2020 11:33

Instrument ID: VGC_J Calib Start Date: 06/24/2020 10:08

GC Column: HP-Plot Q ID: 0.53(mm) Calib End Date: 06/24/2020 11:46

Lab File ID: 06252001.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.59	1.55	1.63
Ethylene	2.38	2.33	2.43
Acetylene	2.50	2.42	2.58
Ethane	2.77	2.72	2.82

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252001.D
Lims ID: CCVRT
Client ID:
Sample Type: CCVRT
Inject. Date: 25-Jun-2020 11:33:25 ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: CCVRT
Misc. Info.: 280-0092746-001
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 09:09:24 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.182	1.182	0.000	8630368	73.0	72.7	
2	1.591	1.591	0.000	7839726	73.0	72.5	
						RPD = 0.25	
3 Ethane							M
1	1.470	1.470	0.000	15517419	136.9	135.4	
2	2.766	2.766	0.000	12455867	136.9	128.3	M
						RPD = 5.37	
4 Ethylene							M
1	1.787	1.787	0.000	11674327	127.7	127.2	
2	2.382	2.382	0.000	9264741	127.7	126.8	M
						RPD = 0.29	
5 Propane							M
1	2.692	2.692	0.000	23716001	200.7	200.9	
2	4.616	4.616	0.000	18937923	200.7	189.3	M
						RPD = 5.92	
6 Acetylene							Ma
1	4.225	4.225	0.000	3015006	118.5	116.2	M
2	2.497	2.497	0.000	4021672	118.5	117.2	M
						RPD = 0.80	
7 Butane							M
1	4.550	4.550	0.000	27987031	264.5	255.7	M
2	6.086	6.086	0.000	25822595	264.5	257.3	M
						RPD = 0.64	
8 isobutylene							Ma
1	5.382	5.382	0.000	18687134	255.4	260.9	M
2	5.927	5.927	0.000	15543050	255.4	247.8	M
						RPD = 5.13	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00031 Amount Added: 200.00 Units: uL

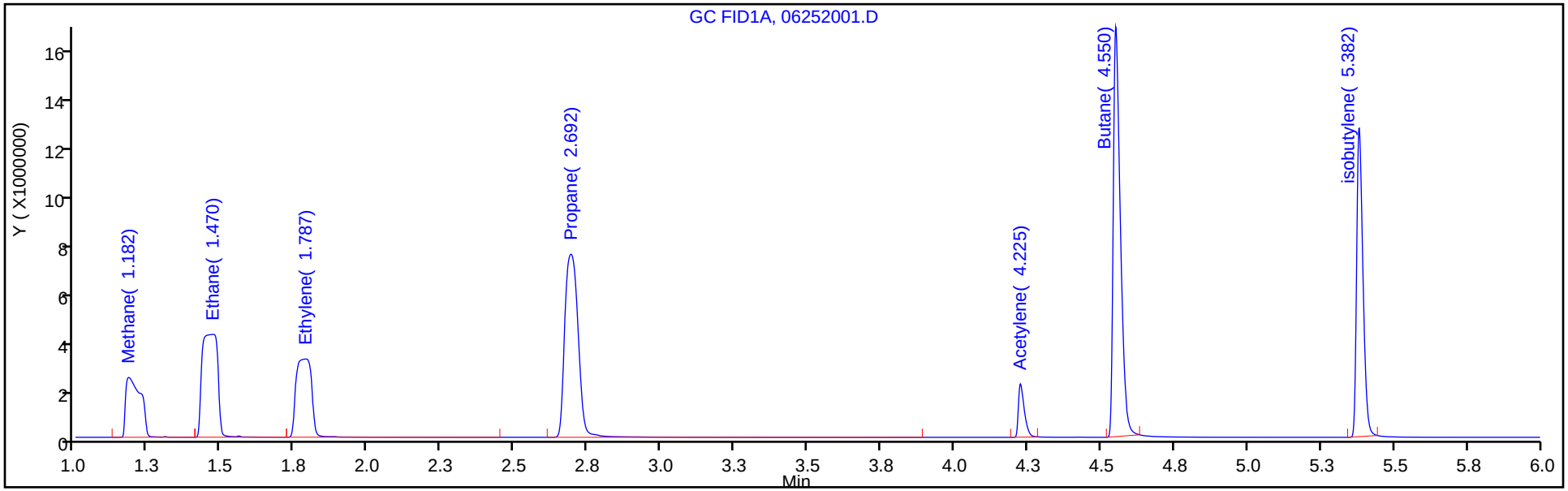
Report Date: 26-Jun-2020 09:09:24 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

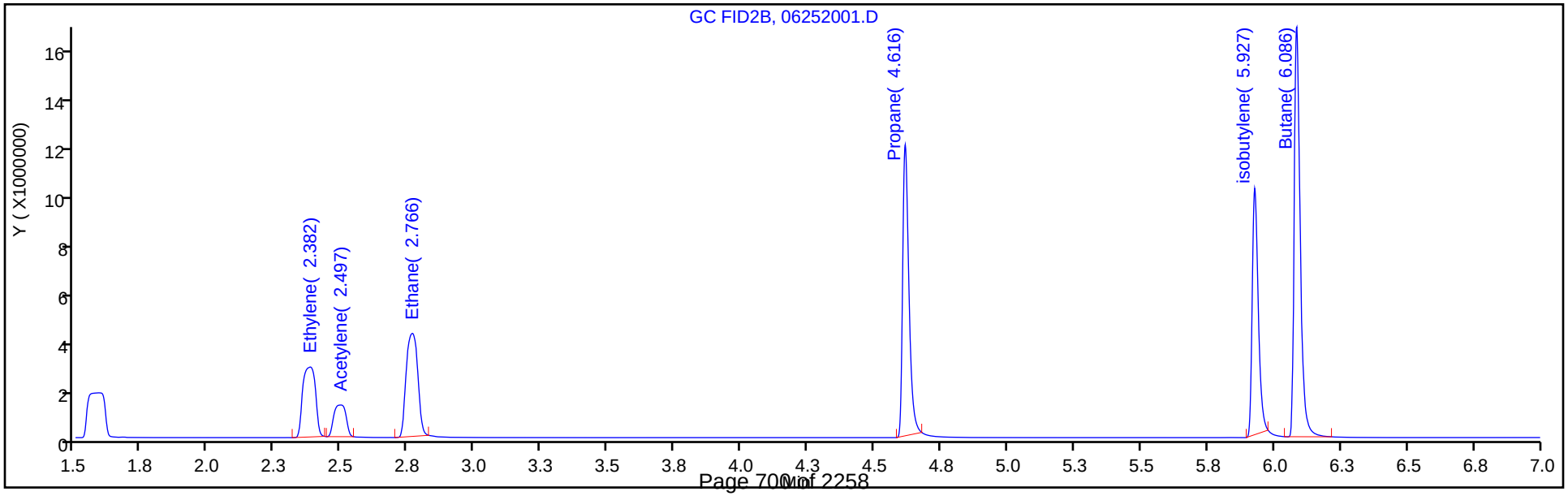
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252001.D

Injection Date:	25-Jun-2020 11:33:25	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	CCVRT			Worklist Smp#:	1
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

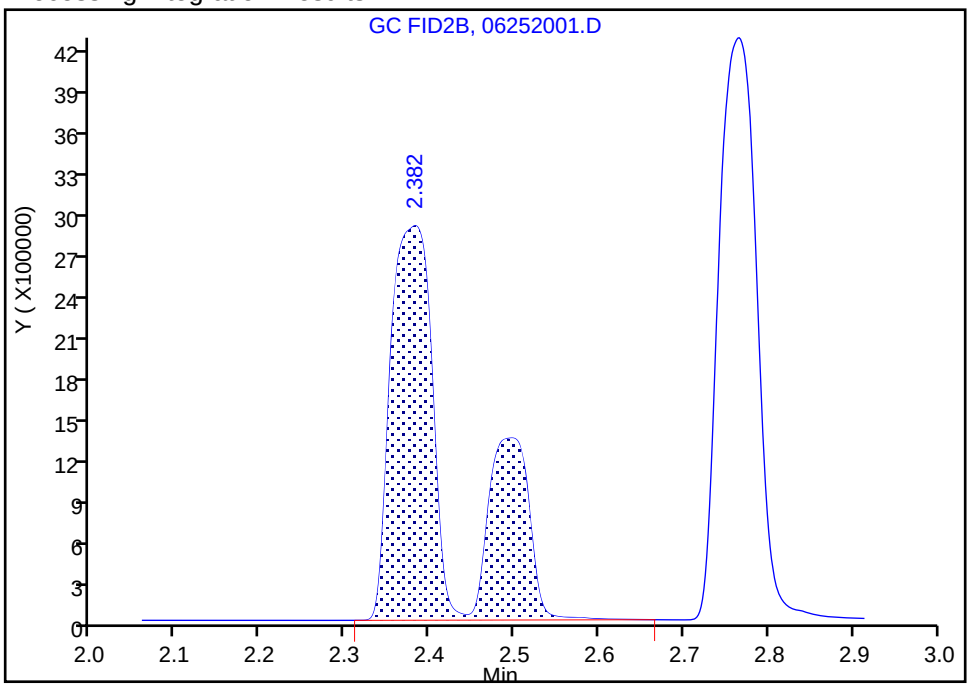
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252001.D
Injection Date: 25-Jun-2020 11:33:25 Instrument ID: VGC_J
Lims ID: CCVRT
Client ID:
Operator ID: gm ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: HP-PLOT/Q (0.53 mm) Detector GC FID2B

4 Ethylene, CAS: 74-85-1

Signal: 2

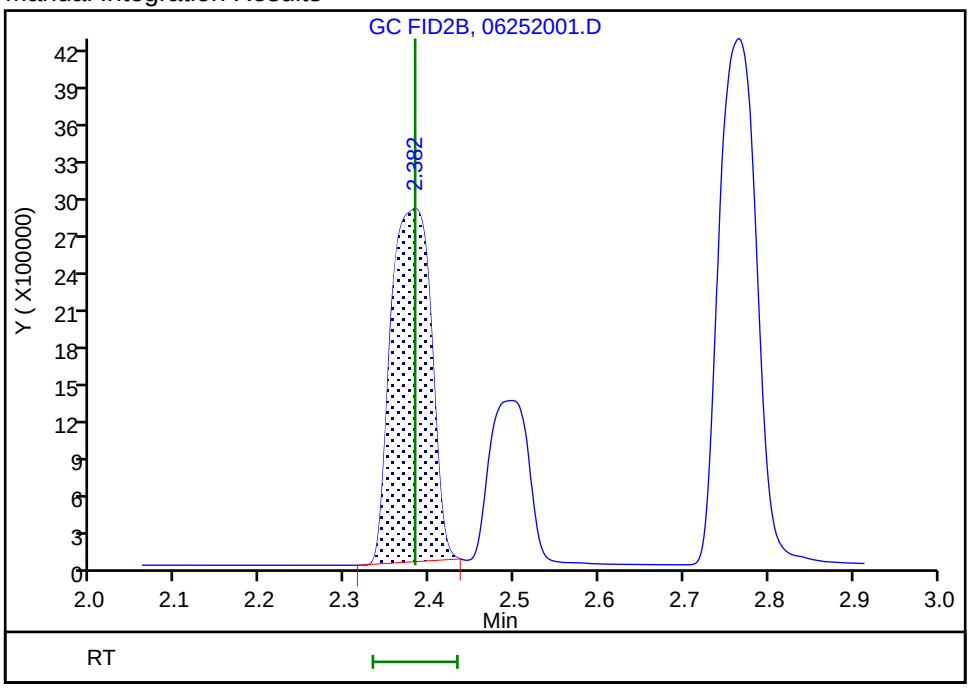
Processing Integration Results

RT: 2.38
Area: 13767443
Amount: 188.4688
Amount Units: ug/l



Manual Integration Results

RT: 2.38
Area: 9264741
Amount: 126.8292
Amount Units: ug/l



Reviewer: meierg, 25-Jun-2020 11:49:58
Audit Action: Manually Integrated Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

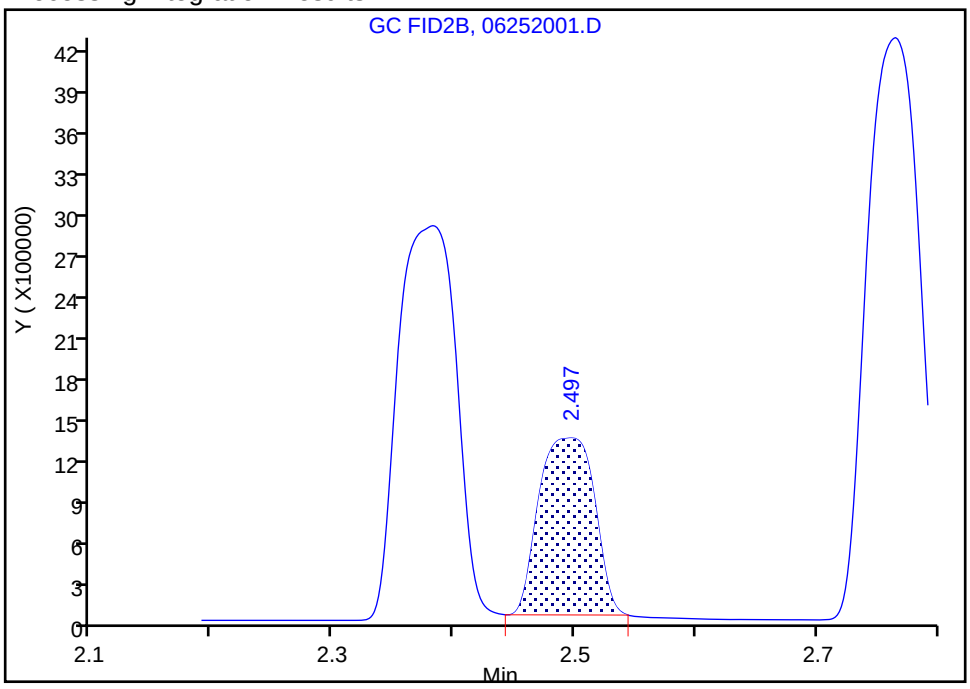
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252001.D
Injection Date: 25-Jun-2020 11:33:25 Instrument ID: VGC_J
Lims ID: CCVRT
Client ID:
Operator ID: gm ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: HP-PLOT/Q (0.53 mm) Detector GC FID2B

6 Acetylene, CAS: 74-86-2

Signal: 2

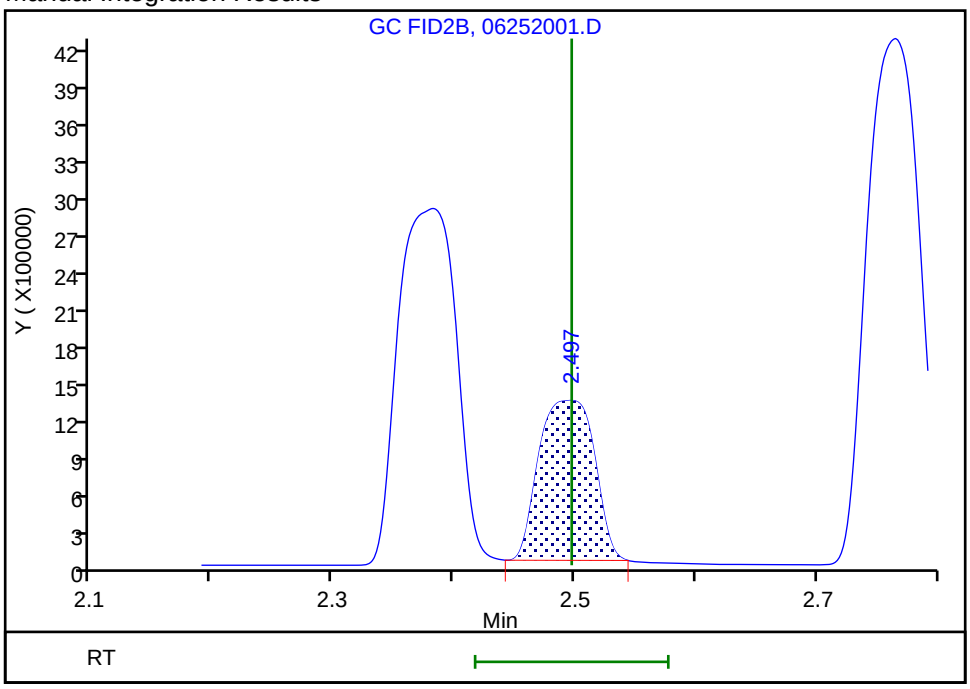
Processing Integration Results

RT: 2.50
Area: 4021672
Amount: 117.1516
Amount Units: ug/l



Manual Integration Results

RT: 2.50
Area: 4021672
Amount: 117.1516
Amount Units: ug/l



Reviewer: meierg, 25-Jun-2020 11:50:22
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Peak not integrated

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

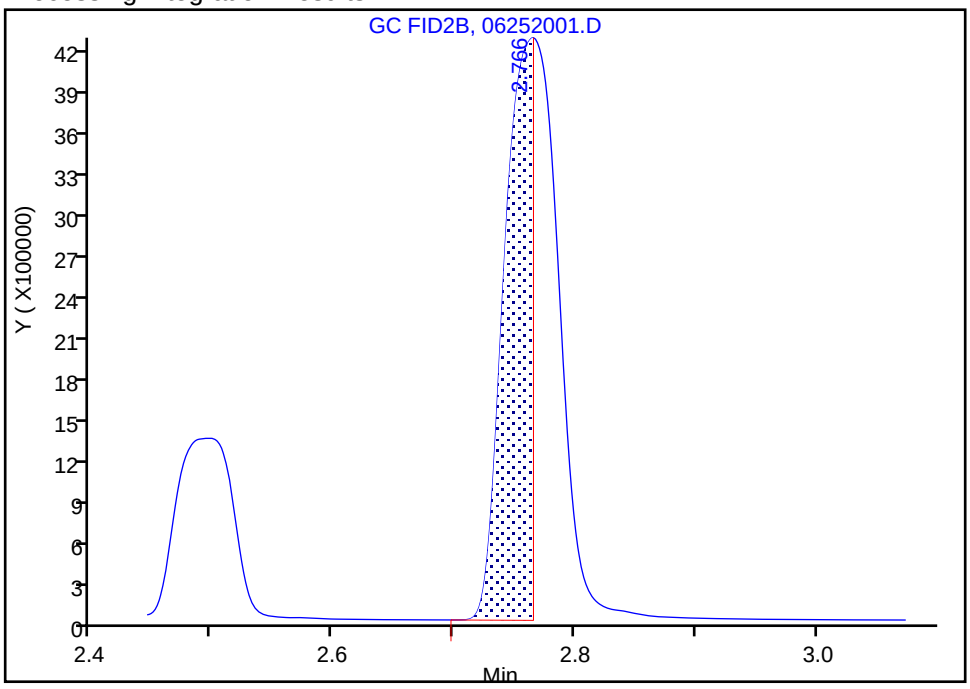
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252001.D
Injection Date: 25-Jun-2020 11:33:25 Instrument ID: VGC_J
Lims ID: CCVRT
Client ID:
Operator ID: gm ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: HP-PLOT/Q (0.53 mm) Detector GC FID2B

3 Ethane, CAS: 74-84-0

Signal: 2

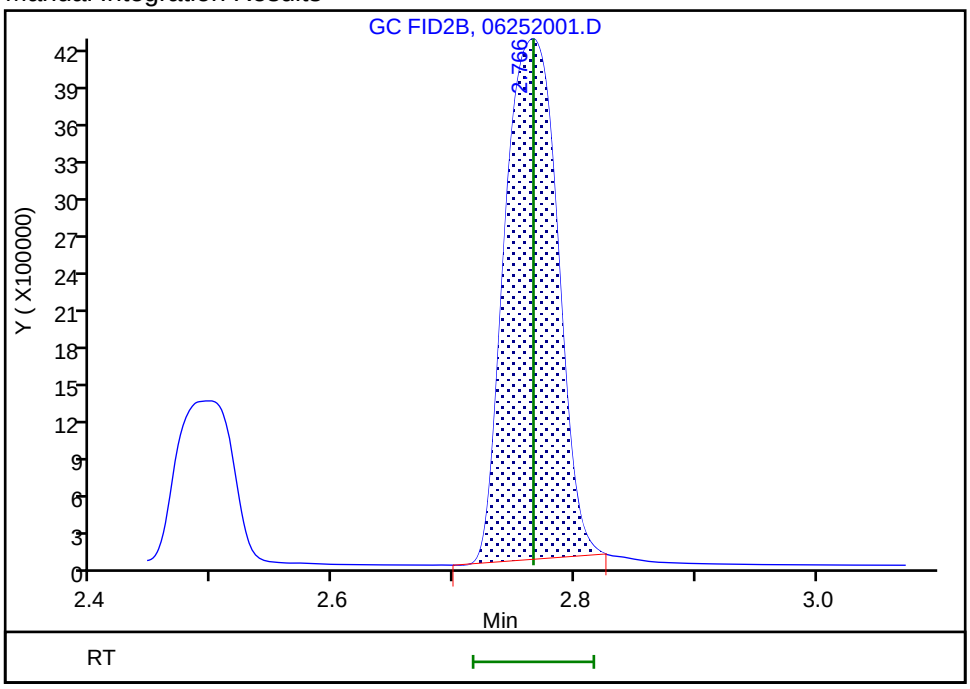
Processing Integration Results

RT: 2.77
Area: 6699874
Amount: 69.012844
Amount Units: ug/l



Manual Integration Results

RT: 2.77
Area: 12455867
Amount: 128.3031
Amount Units: ug/l



Reviewer: meierg, 25-Jun-2020 11:49:47
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500092/18 Calibration Date: 06/25/2020 15:09

Instrument ID: VGC_J Calib Start Date: 06/24/2020 10:08

GC Column: Rt-Alumina KCl ID: 0.53(mm) Calib End Date: 06/24/2020 11:46

Lab File ID: 06252018.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin2		111086		68.3	73.0	-6.5	20.0
Ethane	Ave	114619	105522		126	137	-7.9	20.0
Ethylene	Ave	91780	85954		120	128	-6.3	20.0
Acetylene	Ave	25943	26144		119	119	0.8	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500092/18 Calibration Date: 06/25/2020 15:09

Instrument ID: VGC_J Calib Start Date: 06/24/2020 10:08

GC Column: Rt-Alumina KCl ID: 0.53(mm) Calib End Date: 06/24/2020 11:46

Lab File ID: 06252018.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.17	1.14	1.22
Ethane	1.45	1.42	1.52
Ethylene	1.77	1.74	1.84
Acetylene	4.18	4.15	4.31

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252018.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 25-Jun-2020 15:09:34 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 280-0092746-018
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 08:35:32 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

First Level Reviewer: meierg Date: 25-Jun-2020 15:21:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.170	1.182	-0.012	8109650	73.0	68.3	
2	1.577	1.591	-0.014	7370495	73.0	68.2	
						RPD = 0.19	
3 Ethane							
1	1.451	1.470	-0.019	14441319	136.9	126.0	
2	2.753	2.766	-0.013	12195498	136.9	125.6	
						RPD = 0.30	
4 Ethylene							M
1	1.765	1.787	-0.022	10973499	127.7	119.6	
2	0.000	2.382	-2.382	0	127.7	0	
						RPD = 200.00	
5 Propane							
1	2.646	2.692	-0.046	21911740	200.7	185.6	
2	4.613	4.616	-0.003	18531079	200.7	185.2	
						RPD = 0.18	
6 Acetylene							M
1	4.178	4.225	-0.047	3098599	118.5	119.4	
2	2.485	2.497	-0.012	4082659	118.5	118.9	M
						RPD = 0.43	
7 Butane							M
1	4.506	4.550	-0.044	25743381	264.5	235.2	M
2	6.082	6.086	-0.004	23949752	264.5	238.7	
						RPD = 1.46	
8 isobutylene							
1	5.348	5.382	-0.034	17387600	255.4	242.7	
2	5.925	5.927	-0.002	15270042	255.4	243.5	
						RPD = 0.31	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

RSK7gasMathes_00031 Amount Added: 200.00 Units: uL

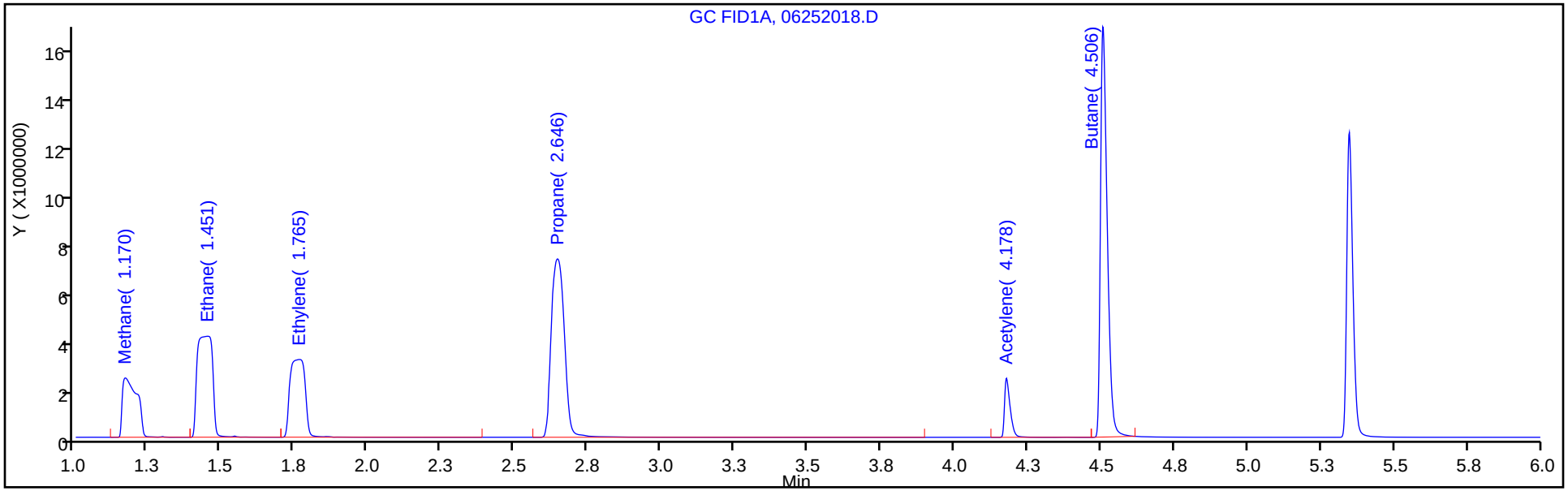
Report Date: 26-Jun-2020 08:35:32 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

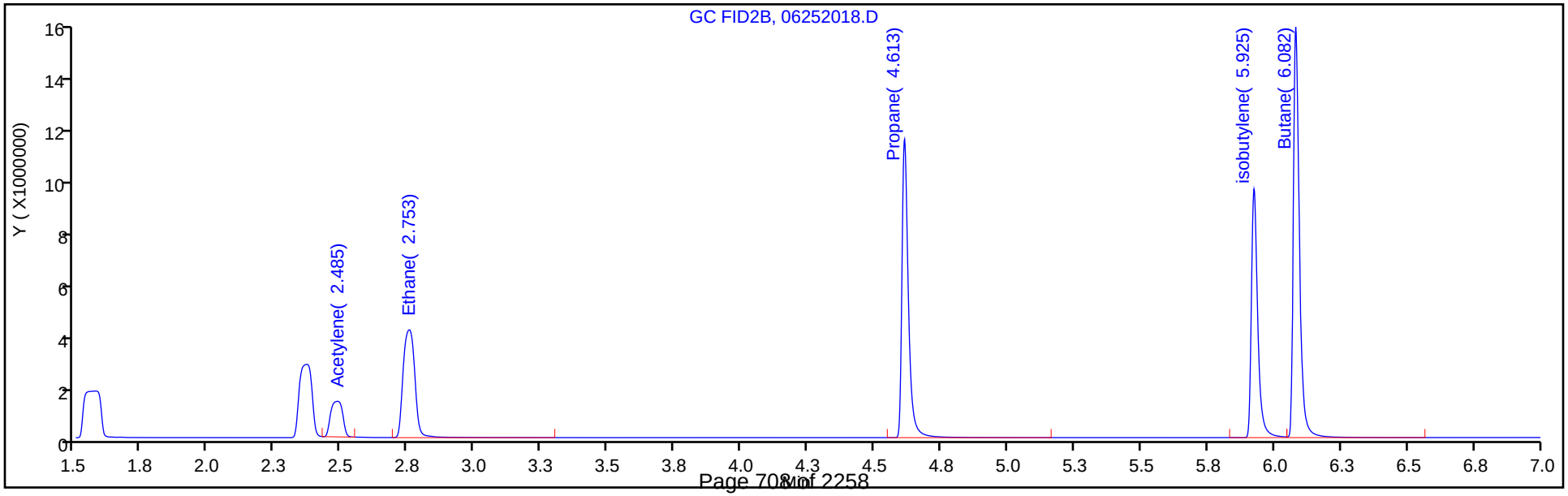
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252018.D

Injection Date:	25-Jun-2020 15:09:34	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	CCV			Worklist Smp#:	18
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500092/18 Calibration Date: 06/25/2020 15:09

Instrument ID: VGC_J Calib Start Date: 06/24/2020 10:08

GC Column: HP-Plot Q ID: 0.53(mm) Calib End Date: 06/24/2020 11:46

Lab File ID: 06252018.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene	Ave	73049	68815		1.40	128	-5.8	20.0
Methane	Lin2		100961		68.2	73.0	-6.6	20.0
Acetylene	Ave	34329	34446		119	119	0.3	20.0
Ethane	Ave	97082	89112		126	137	-8.2	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500092/18 Calibration Date: 06/25/2020 15:09

Instrument ID: VGC_J Calib Start Date: 06/24/2020 10:08

GC Column: HP-Plot Q ID: 0.53(mm) Calib End Date: 06/24/2020 11:46

Lab File ID: 06252018.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene	0.00	2.33	2.43
Methane	1.58	1.55	1.63
Acetylene	2.49	2.42	2.58
Ethane	2.75	2.72	2.82

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252018.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 25-Jun-2020 15:09:34 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 280-0092746-018
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 08:35:32 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

First Level Reviewer: meierg Date: 25-Jun-2020 15:21:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.170	1.182	-0.012	8109650	73.0	68.3	
2	1.577	1.591	-0.014	7370495	73.0	68.2	
						RPD = 0.19	
3 Ethane							
1	1.451	1.470	-0.019	14441319	136.9	126.0	
2	2.753	2.766	-0.013	12195498	136.9	125.6	
						RPD = 0.30	
4 Ethylene							M
1	1.765	1.787	-0.022	10973499	127.7	119.6	
2	0.000	2.382	-2.382	0	127.7	0	
						RPD = 200.00	
5 Propane							
1	2.646	2.692	-0.046	21911740	200.7	185.6	
2	4.613	4.616	-0.003	18531079	200.7	185.2	
						RPD = 0.18	
6 Acetylene							M
1	4.178	4.225	-0.047	3098599	118.5	119.4	
2	2.485	2.497	-0.012	4082659	118.5	118.9	M
						RPD = 0.43	
7 Butane							M
1	4.506	4.550	-0.044	25743381	264.5	235.2	M
2	6.082	6.086	-0.004	23949752	264.5	238.7	
						RPD = 1.46	
8 isobutylene							
1	5.348	5.382	-0.034	17387600	255.4	242.7	
2	5.925	5.927	-0.002	15270042	255.4	243.5	
						RPD = 0.31	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

RSK7gasMathes_00031 Amount Added: 200.00 Units: uL

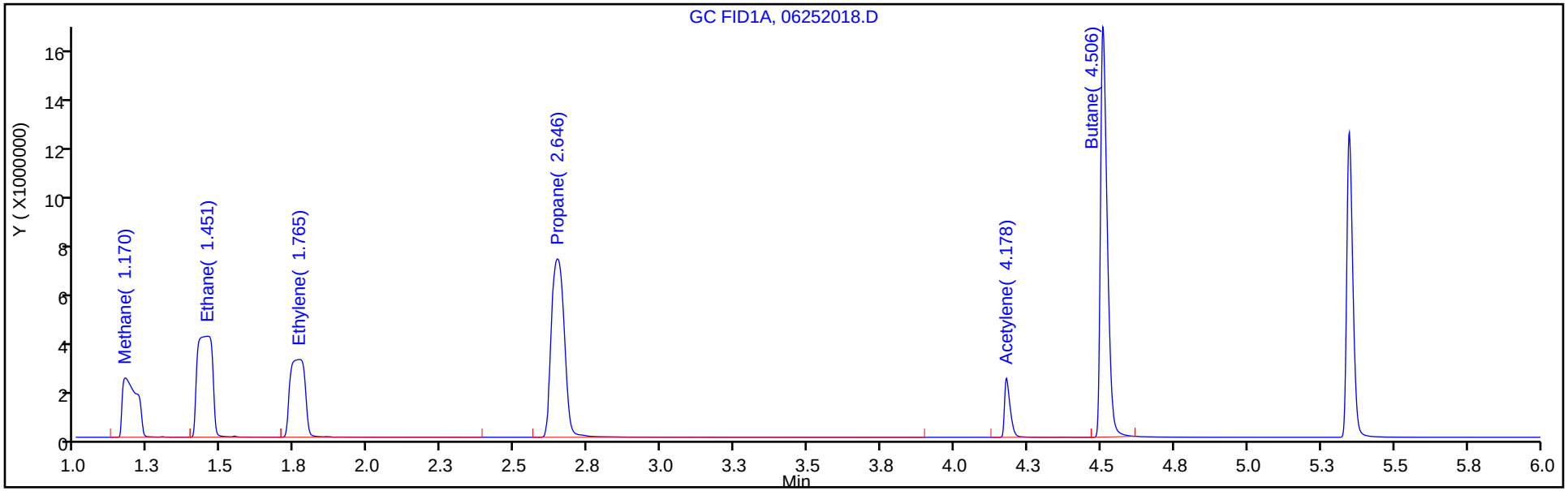
Report Date: 26-Jun-2020 08:35:32 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

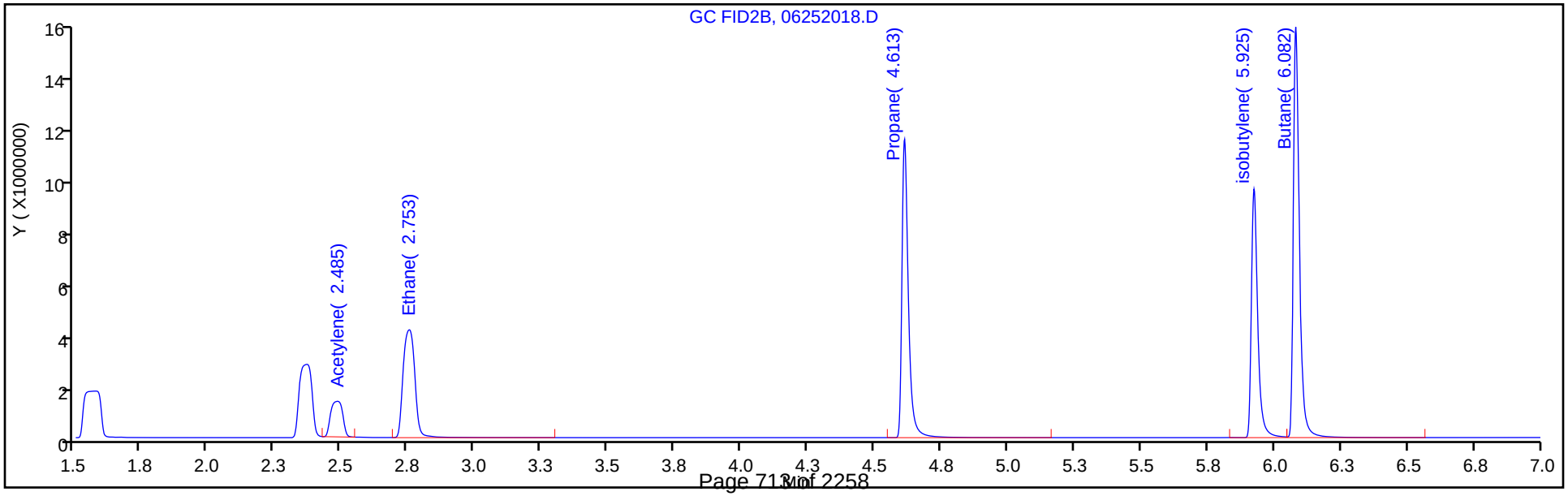
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252018.D

Injection Date:	25-Jun-2020 15:09:34	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	CCV			Worklist Smp#:	18
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

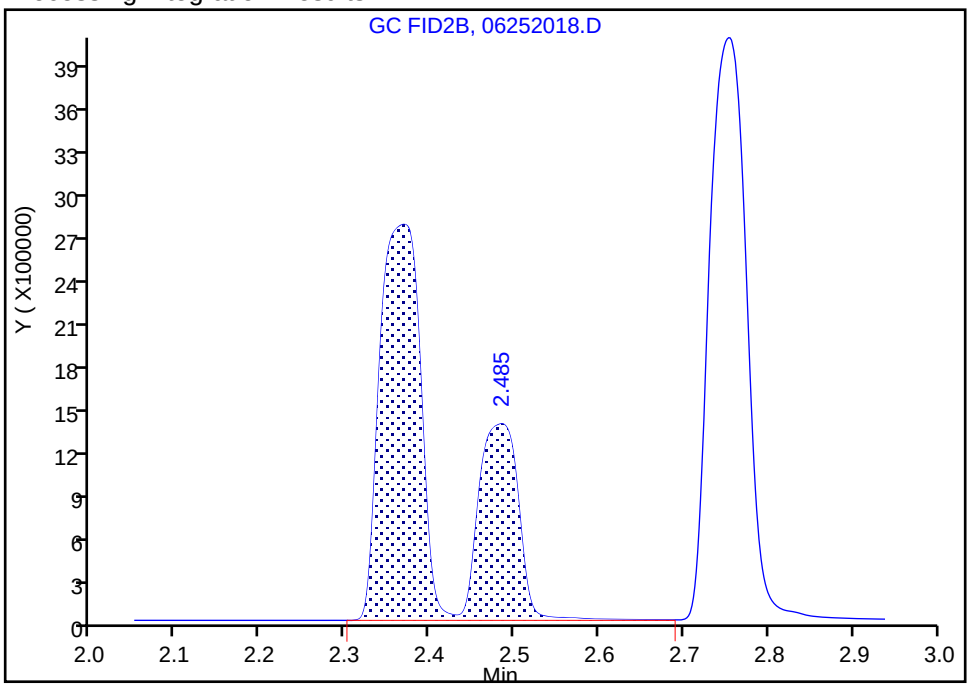
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252018.D
Injection Date: 25-Jun-2020 15:09:34 Instrument ID: VGC_J
Lims ID: CCV
Client ID:
Operator ID: gm ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: HP-PLOT/Q (0.53 mm) Detector GC FID2B

6 Acetylene, CAS: 74-86-2

Signal: 2

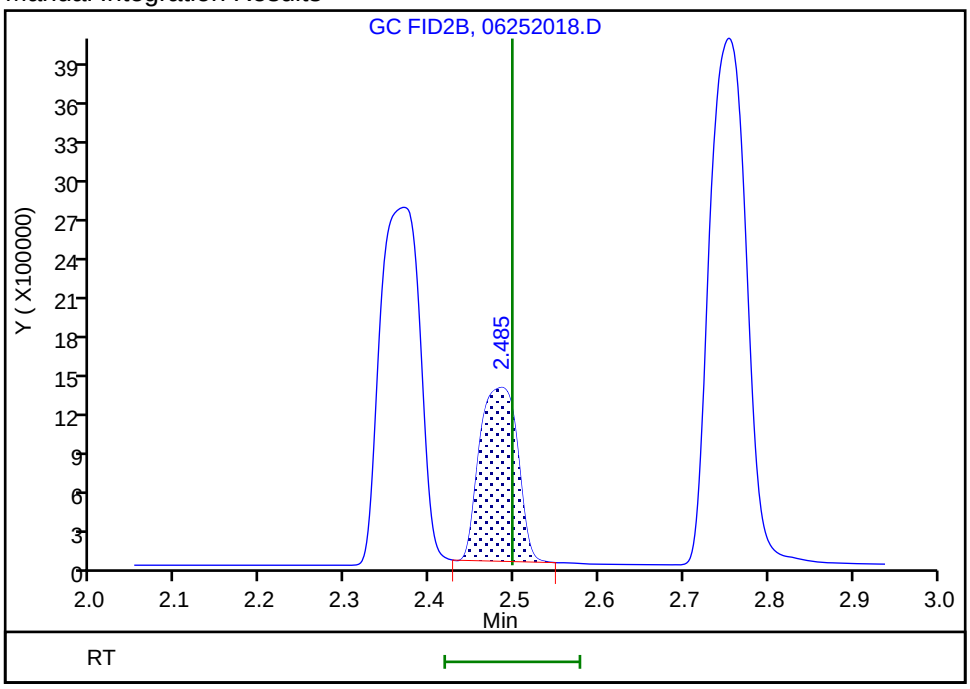
Processing Integration Results

RT: 2.48
Area: 13267617
Amount: 386.4866
Amount Units: ug/l



Manual Integration Results

RT: 2.48
Area: 4082659
Amount: 118.9281
Amount Units: ug/l



Reviewer: meierg, 25-Jun-2020 15:21:07
Audit Action: Manually Integrated Audit Reason: Shouldering

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500092/30 Calibration Date: 06/25/2020 17:36

Instrument ID: VGC_J Calib Start Date: 06/24/2020 10:08

GC Column: Rt-Alumina KCl ID: 0.53(mm) Calib End Date: 06/24/2020 11:46

Lab File ID: 06252030.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin2		115708		71.1	73.0	-2.6	20.0
Ethane	Ave	114619	109456		131	137	-4.5	20.0
Ethylene	Ave	91780	88084		123	128	-4.0	20.0
Acetylene	Ave	25943	26241		120	119	1.1	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500092/30 Calibration Date: 06/25/2020 17:36

Instrument ID: VGC_J Calib Start Date: 06/24/2020 10:08

GC Column: Rt-Alumina KCl ID: 0.53(mm) Calib End Date: 06/24/2020 11:46

Lab File ID: 06252030.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.17	1.14	1.22
Ethane	1.45	1.42	1.52
Ethylene	1.77	1.74	1.84
Acetylene	4.16	4.15	4.31

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252030.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 25-Jun-2020 17:36:03 ALS Bottle#: 30 Worklist Smp#: 30
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 280-0092746-030
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 08:35:37 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

First Level Reviewer: meierg Date: 25-Jun-2020 20:03:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.173	1.182	-0.009	8447057	73.0	71.1	
2	1.576	1.591	-0.015	7702782	73.0	71.2	
						RPD = 0.14	
3 Ethane							
1	1.448	1.470	-0.022	14979685	136.9	130.7	
2	2.758	2.766	-0.008	12589396	136.9	129.7	
						RPD = 0.78	
4 Ethylene							M
1	1.765	1.787	-0.022	11245360	127.7	122.5	
2	0.000	2.382	-2.382	0	127.7	0	
						RPD = 200.00	
5 Propane							
1	2.635	2.692	-0.057	22696933	200.7	192.2	
2	4.613	4.616	-0.003	19702386	200.7	196.9	
						RPD = 2.43	
6 Acetylene							M
1	4.155	4.225	-0.070	3110164	118.5	119.9	
2	2.490	2.497	-0.007	4103097	118.5	119.5	M
						RPD = 0.30	
7 Butane							
1	4.488	4.550	-0.062	27071649	264.5	247.3	
2	6.081	6.086	-0.005	24837129	264.5	247.5	
						RPD = 0.07	
8 isobutylene							
1	5.331	5.382	-0.051	17682344	255.4	246.8	
2	5.925	5.927	-0.002	15651158	255.4	249.6	
						RPD = 1.09	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

RSK7gasMathes_00031 Amount Added: 200.00 Units: uL

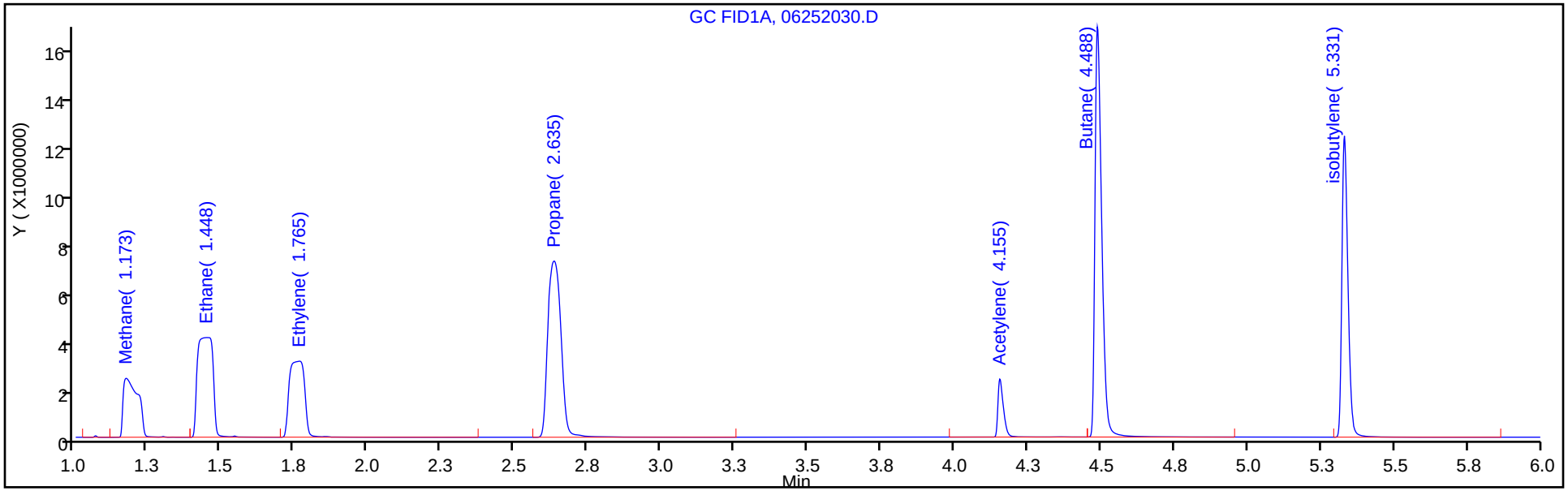
Report Date: 26-Jun-2020 08:35:38 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

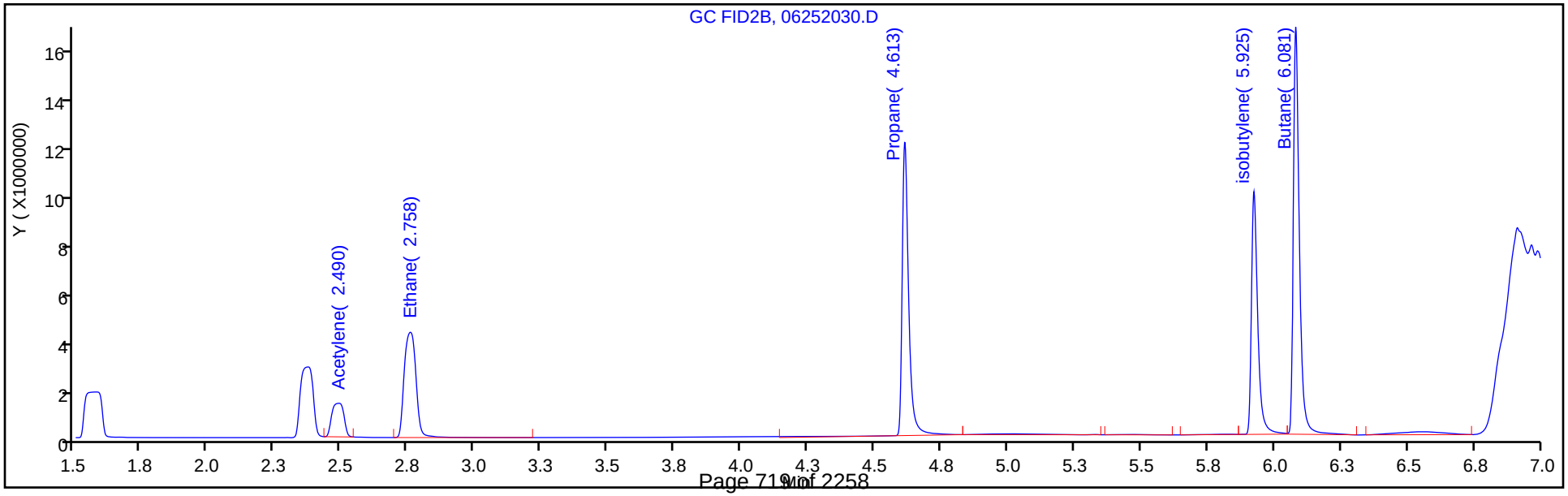
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252030.D

Injection Date:	25-Jun-2020 17:36:03	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	CCV			Worklist Smp#:	30
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500092/30 Calibration Date: 06/25/2020 17:36

Instrument ID: VGC_J Calib Start Date: 06/24/2020 10:08

GC Column: HP-Plot Q ID: 0.53(mm) Calib End Date: 06/24/2020 11:46

Lab File ID: 06252030.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene	Ave	73049	70590		1.40	128	-3.4	20.0
Methane	Lin2		105513		71.2	73.0	-2.4	20.0
Acetylene	Ave	34329	34619		120	119	0.8	20.0
Ethane	Ave	97082	91990		130	137	-5.2	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500092/30 Calibration Date: 06/25/2020 17:36

Instrument ID: VGC_J Calib Start Date: 06/24/2020 10:08

GC Column: HP-Plot Q ID: 0.53(mm) Calib End Date: 06/24/2020 11:46

Lab File ID: 06252030.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene	0.00	2.33	2.43
Methane	1.58	1.55	1.63
Acetylene	2.49	2.42	2.58
Ethane	2.76	2.72	2.82

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252030.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 25-Jun-2020 17:36:03 ALS Bottle#: 30 Worklist Smp#: 30
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 280-0092746-030
Operator ID: gm Instrument ID: VGC_J
Sublist: chrom-RSK_J*sub5

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 08:35:37 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

First Level Reviewer: meierg Date: 25-Jun-2020 20:03:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.173	1.182	-0.009	8447057	73.0	71.1	
2	1.576	1.591	-0.015	7702782	73.0	71.2	
						RPD = 0.14	
3 Ethane							
1	1.448	1.470	-0.022	14979685	136.9	130.7	
2	2.758	2.766	-0.008	12589396	136.9	129.7	
						RPD = 0.78	
4 Ethylene							M
1	1.765	1.787	-0.022	11245360	127.7	122.5	
2	0.000	2.382	-2.382	0	127.7	0	
						RPD = 200.00	
5 Propane							
1	2.635	2.692	-0.057	22696933	200.7	192.2	
2	4.613	4.616	-0.003	19702386	200.7	196.9	
						RPD = 2.43	
6 Acetylene							M
1	4.155	4.225	-0.070	3110164	118.5	119.9	
2	2.490	2.497	-0.007	4103097	118.5	119.5	M
						RPD = 0.30	
7 Butane							
1	4.488	4.550	-0.062	27071649	264.5	247.3	
2	6.081	6.086	-0.005	24837129	264.5	247.5	
						RPD = 0.07	
8 isobutylene							
1	5.331	5.382	-0.051	17682344	255.4	246.8	
2	5.925	5.927	-0.002	15651158	255.4	249.6	
						RPD = 1.09	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

RSK7gasMathes_00031 Amount Added: 200.00 Units: uL

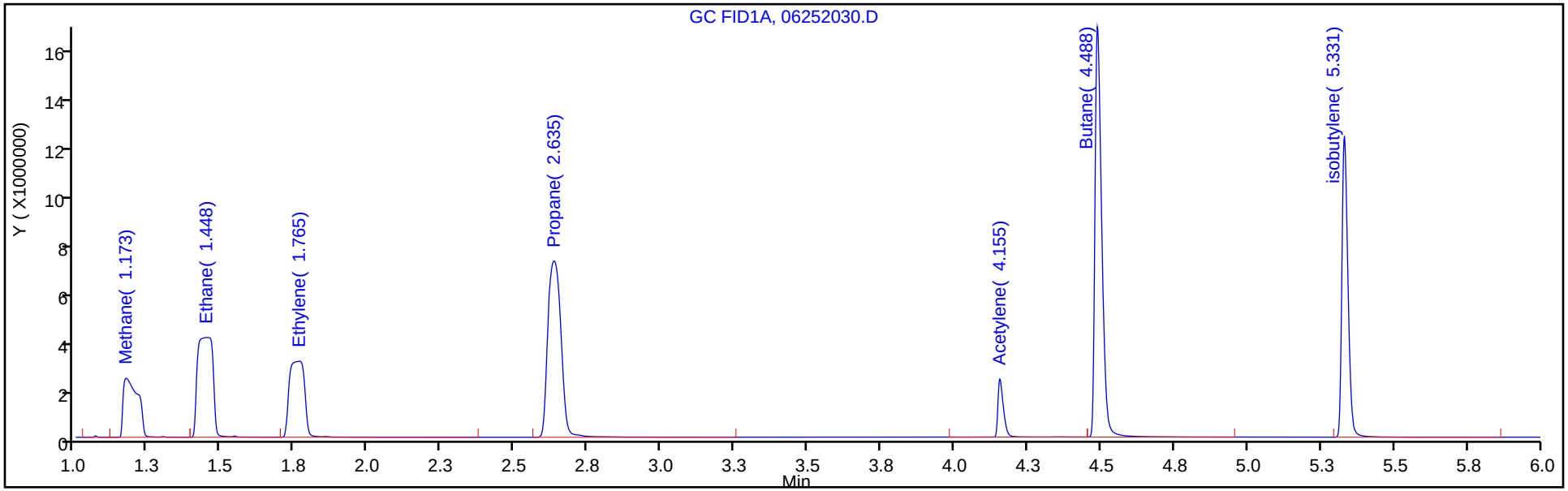
Report Date: 26-Jun-2020 08:35:38 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

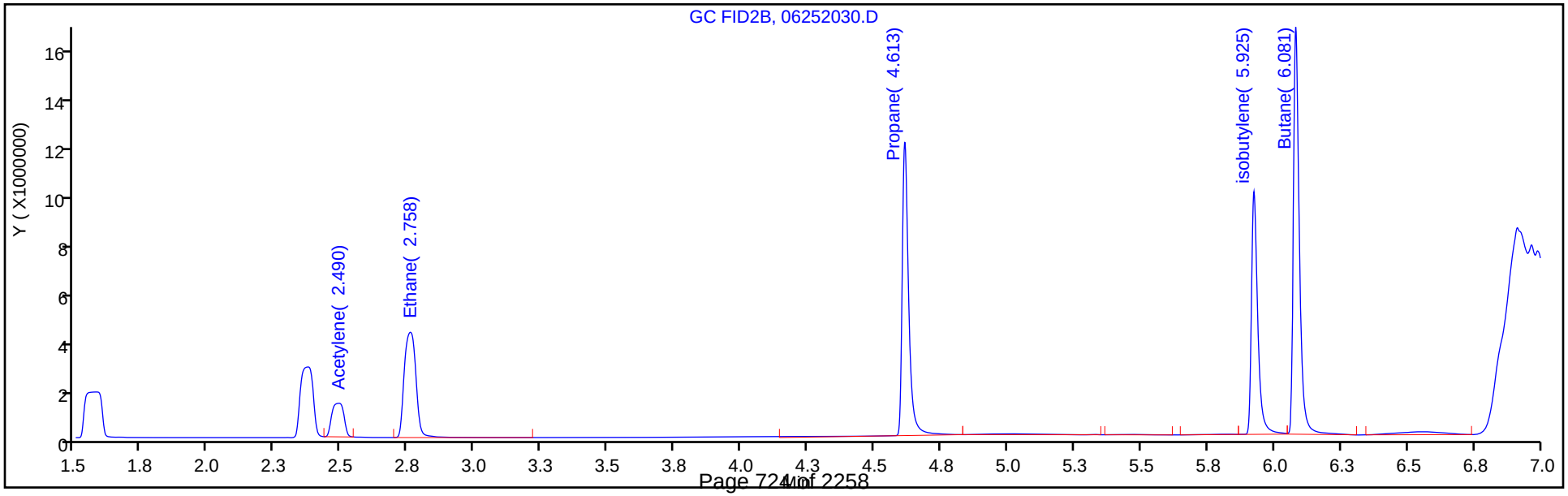
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252030.D

Injection Date:	25-Jun-2020 17:36:03	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	CCV			Worklist Smp#:	30
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

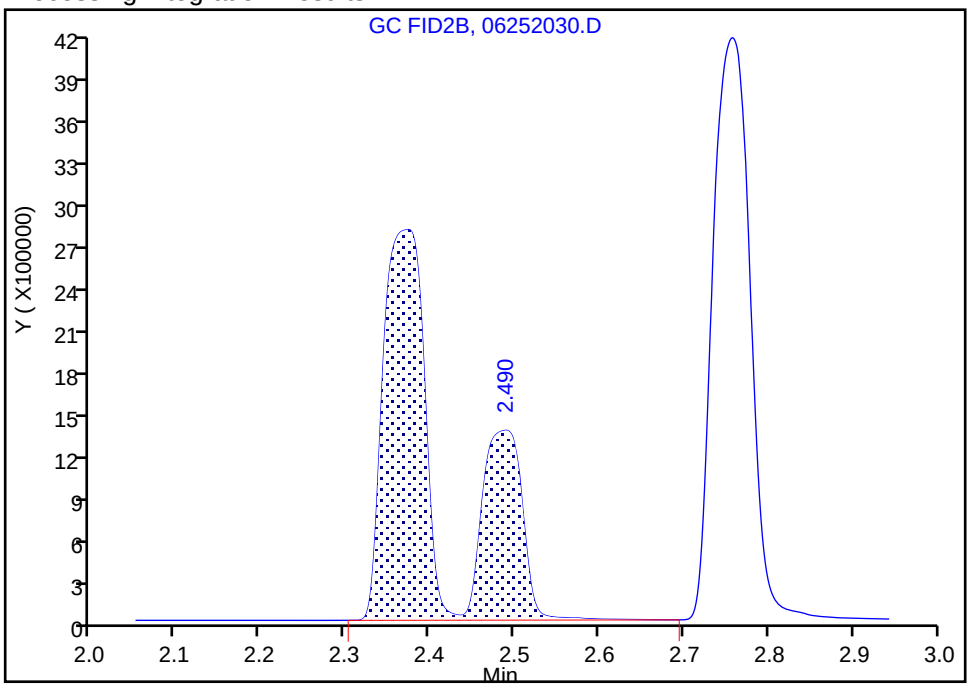
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252030.D
Injection Date: 25-Jun-2020 17:36:03 Instrument ID: VGC_J
Lims ID: CCV
Client ID:
Operator ID: gm ALS Bottle#: 30 Worklist Smp#: 30
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Method: RSK_J Limit Group: GCV - RSK 175
Column: HP-PLOT/Q (0.53 mm) Detector GC FID2B

6 Acetylene, CAS: 74-86-2

Signal: 2

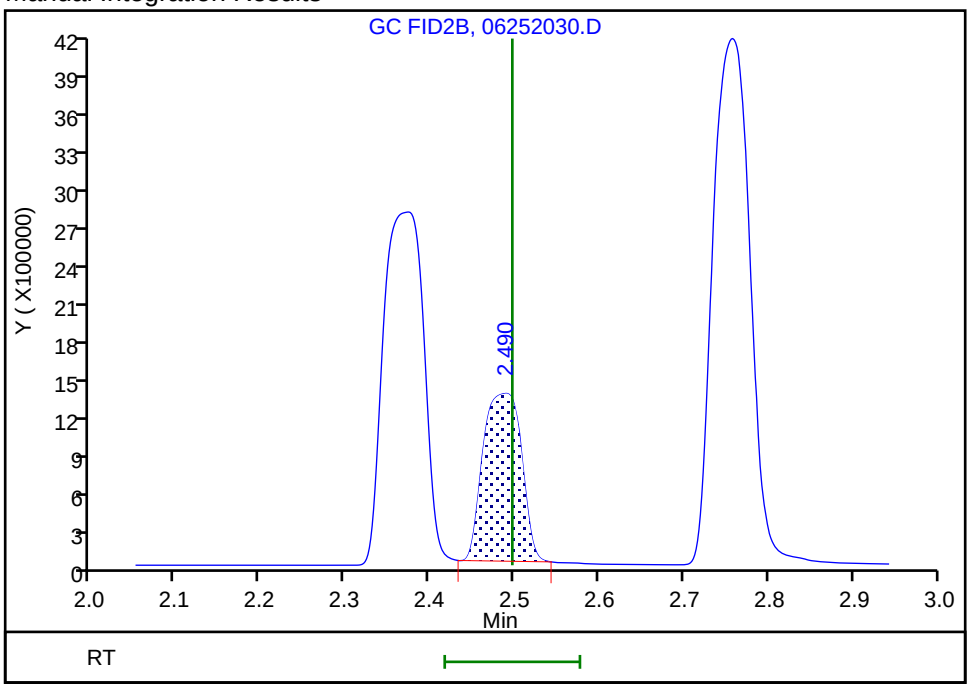
Processing Integration Results

RT: 2.49
Area: 13493674
Amount: 393.0716
Amount Units: ug/l



Manual Integration Results

RT: 2.49
Area: 4103097
Amount: 119.5235
Amount Units: ug/l



Reviewer: meierg, 25-Jun-2020 20:02:54
Audit Action: Manually Integrated Audit Reason: Shouldering

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-500092/4

Matrix: Water Lab File ID: 06252004.D

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 12:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.0020	U	0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252004.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	25-Jun-2020 12:09:55	ALS Bottle#:	4	Worklist Smp#:	4
Purge Vol:	18.000 mL	Dil. Factor:	1.0000		
Sample Info:	MB				
Misc. Info.:	280-0092746-004				
Operator ID:	gm	Instrument ID:	VGC_J		
Method:	\\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m				
Limit Group:	GCV - RSK 175				
Method Label:	DV-GC-0025: Dissolved Gases in Water by RSK-175				
Last Update:	26-Jun-2020 09:09:25	Calib Date:	24-Jun-2020 11:46:32		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D				
Column 1 :	Rt-Alumina BOND/KCl (0.53 mm)		Det: GC FID1A		
Column 2 :	HP-PLOT/Q (0.53 mm)		Det: GC FID2B		
Process Host:	CTX1026				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 1,1,1-Trifluoroethane							
1		4.098				ND	
2		5.458					
2 Methane							
1		1.182				ND	
2		1.591					
3 Ethane							
1		1.470				ND	
2		2.766					
4 Ethylene							
1		1.787				ND	
2		2.382					
5 Propane							
1		2.692				ND	
2		4.616					
6 Acetylene							
1		4.225				ND	
2		2.497					
7 Butane							
1		4.550				ND	
2		6.086					
8 isobutylene							
1		5.382				ND	
2		5.927					

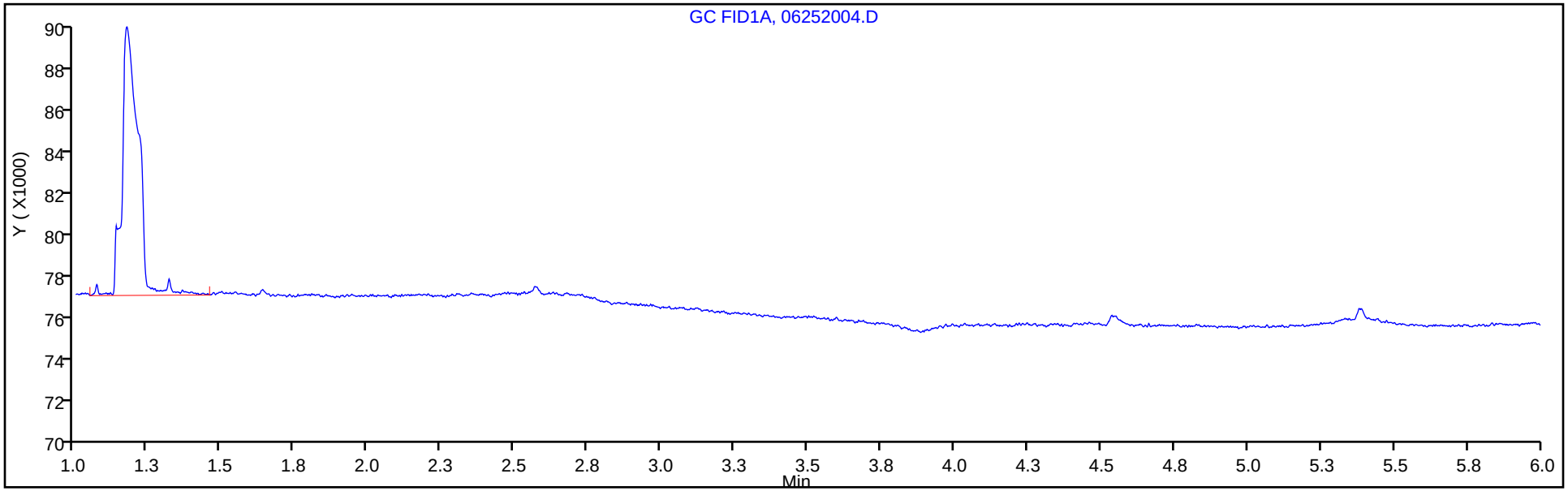
Report Date: 26-Jun-2020 09:09:25 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

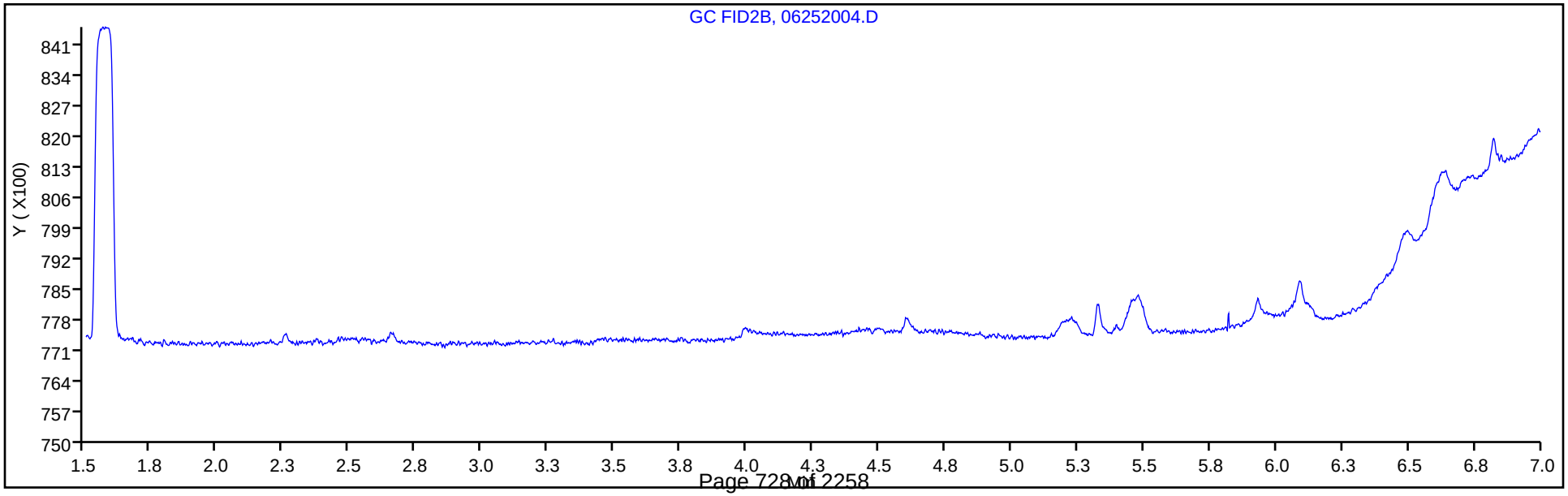
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252004.D

Injection Date:	25-Jun-2020 12:09:55	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	MB			Worklist Smp#:	4
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-500092/2

Matrix: Water Lab File ID: 06252002.D

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 11:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.0687		0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252002.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 25-Jun-2020 11:45:32 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 280-0092746-002
Operator ID: gm Instrument ID: VGC_J

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 08:35:24 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

First Level Reviewer: meierg Date: 25-Jun-2020 13:17:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.179	1.182	-0.003	8182366	73.0	68.9	
2	1.583	1.591	-0.008	7433523	73.0	68.7	
						RPD = 0.23	
3 Ethane							M
1	1.467	1.470	-0.003	14297682	136.9	124.7	
2	2.768	2.766	0.002	11805405	136.9	121.6	M
						RPD = 2.55	
4 Ethylene							M
1	1.784	1.787	-0.003	10842445	127.7	118.1	
2	2.384	2.382	0.002	8642809	127.7	118.3	M
						RPD = 0.15	
5 Propane							M
1	2.684	2.692	-0.008	20916193	200.7	177.1	
2	4.619	4.616	0.003	17127893	200.7	171.2	M
						RPD = 3.41	
6 Acetylene							Ma
1	4.231	4.225	0.006	2882227	118.5	111.1	M
2	2.499	2.497	0.002	3934012	118.5	114.6	M
						RPD = 3.10	
7 Butane							Ma
1	4.546	4.550	-0.004	22513520	264.5	205.8	M
2	6.088	6.086	0.002	20580777	264.5	205.2	M
						RPD = 0.29	
8 isobutylene							Ma
1	5.379	5.382	-0.003	15616754	255.4	218.0	
2	5.931	5.927	0.004	13099558	255.4	208.9	M
						RPD = 4.28	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00027 Amount Added: 200.00 Units: uL

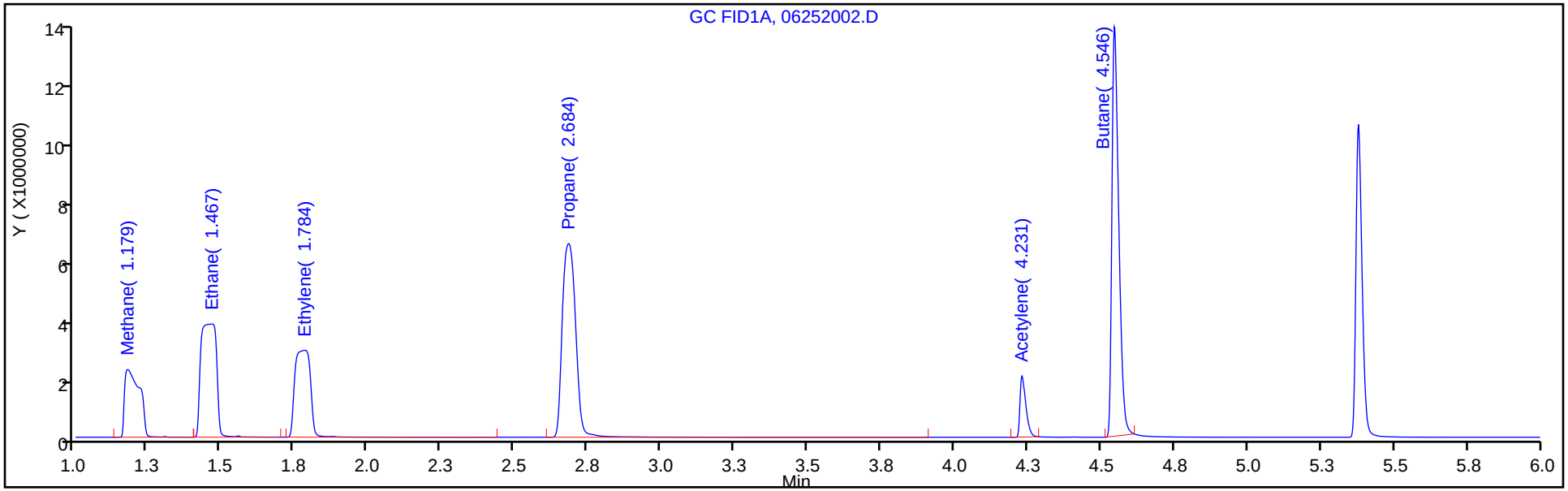
Report Date: 26-Jun-2020 08:35:25 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

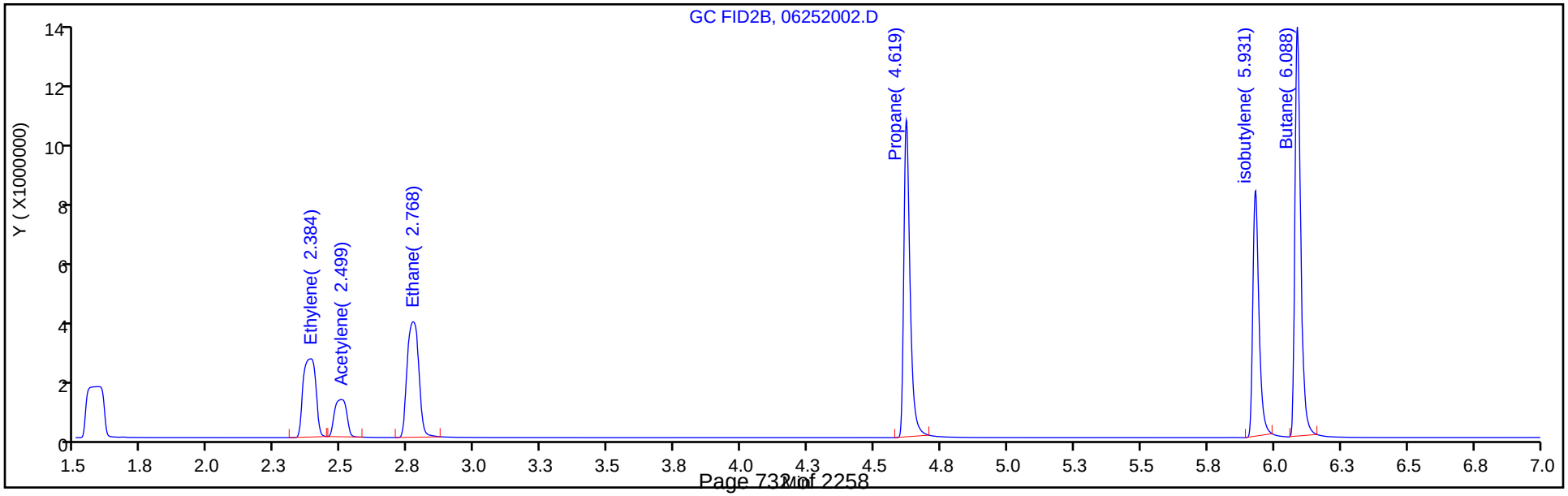
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252002.D

Injection Date:	25-Jun-2020 11:45:32	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	LCS			Worklist Smp#:	2
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 280-500092/3

Matrix: Water Lab File ID: 06252003.D

Analysis Method: RSK-175 Date Collected:

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 11:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.0717		0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252003.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 25-Jun-2020 11:57:42 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 280-0092746-003
Operator ID: gm Instrument ID: VGC_J

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 08:35:24 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

First Level Reviewer: meierg Date: 25-Jun-2020 13:28:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Methane							
1	1.178	1.182	-0.004	8527068	73.0	71.8	
2	1.587	1.591	-0.004	7747453	73.0	71.7	
						RPD = 0.23	
3 Ethane							M
1	1.468	1.470	-0.002	14883450	136.9	129.9	
2	2.767	2.766	0.001	12122031	136.9	124.9	M
						RPD = 3.92	
4 Ethylene							M
1	1.782	1.787	-0.005	11164988	127.7	121.6	
2	2.379	2.382	-0.003	8916070	127.7	122.1	M
						RPD = 0.33	
5 Propane							
1	2.680	2.692	-0.012	21784088	200.7	184.5	
2	4.619	4.616	0.003	18423257	200.7	184.2	
						RPD = 0.18	
6 Acetylene							Ma
1	4.227	4.225	0.002	2930976	118.5	113.0	M
2	2.497	2.497	0.000	3906832	118.5	113.8	M
						RPD = 0.73	
7 Butane							Ma
1	4.543	4.550	-0.007	23451173	264.5	214.4	M
2	6.087	6.086	0.001	21174027	264.5	211.1	M
						RPD = 1.52	
8 isobutylene							Ma
1	5.377	5.382	-0.005	16005872	255.4	223.4	
2	5.929	5.927	0.002	13230372	255.4	211.0	M
						RPD = 5.75	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00027 Amount Added: 200.00 Units: uL

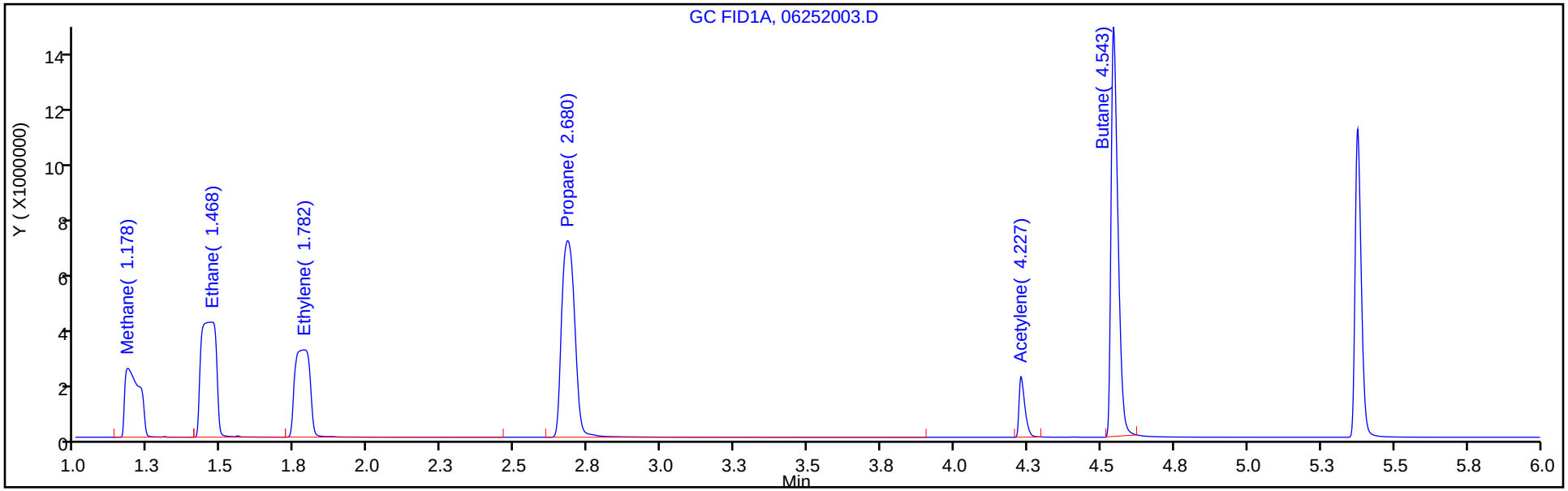
Report Date: 26-Jun-2020 08:35:26 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

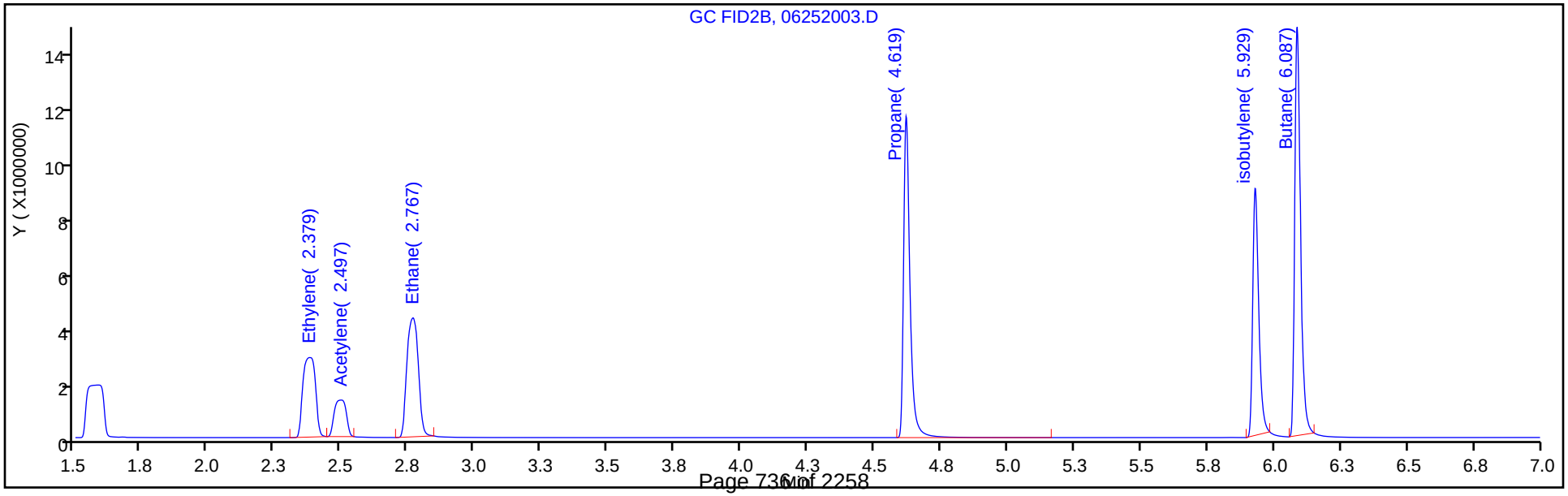
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252003.D

Injection Date:	25-Jun-2020 11:57:42	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	LCSD			Worklist Smp#:	3
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: PZ019-20A MS Lab Sample ID: 280-137736-9 MS

Matrix: Water Lab File ID: 06252010.D

Analysis Method: RSK-175 Date Collected: 06/16/2020 12:00

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 13:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.0630		0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252010.D
Lims ID: 280-137736-H-9 MS
Client ID: PZ019-20A
Sample Type: MS
Inject. Date: 25-Jun-2020 13:31:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: 280-137736-H-9MS
Misc. Info.: 280-0092746-010
Operator ID: gm Instrument ID: VGC_J

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 08:35:24 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

First Level Reviewer: meierg Date: 25-Jun-2020 14:07:54

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 1,1,1-Trifluoroethane							
1		4.098				ND	
2		5.458					
2 Methane							
1	1.170	1.182	-0.012	7661104	73.0	64.5	
2	1.572	1.591	-0.019	6816011	73.0	63.0	
						RPD = 2.32	
3 Ethane							
1	1.455	1.470	-0.015	13876443	136.9	121.1	
2	2.755	2.766	-0.011	11492498	136.9	118.4	
						RPD = 2.24	
4 Ethylene							
1	1.767	1.787	-0.020	10661274	127.7	116.2	
2	2.370	2.382	-0.012	8359690	127.7	114.4	
						RPD = 1.49	
5 Propane							
1	2.647	2.692	-0.045	21356045	200.7	180.9	
2	4.613	4.616	-0.003	17714336	200.7	177.1	
						RPD = 2.12	
6 Acetylene							Ma
1	4.197	4.225	-0.028	2967287	118.5	114.4	M
2	2.483	2.497	-0.014	3937773	118.5	114.7	M
						RPD = 0.29	
7 Butane							M
1	4.523	4.550	-0.027	25509806	264.5	233.1	M
2	6.082	6.086	-0.004	23756910	264.5	236.8	
						RPD = 1.57	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 isobutylene							
1	5.365	5.382	-0.017	17782249	255.4	248.2	
2	5.925	5.927	-0.002	15331672	255.4	244.5	
						RPD = 1.54	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00027 Amount Added: 200.00 Units: uL

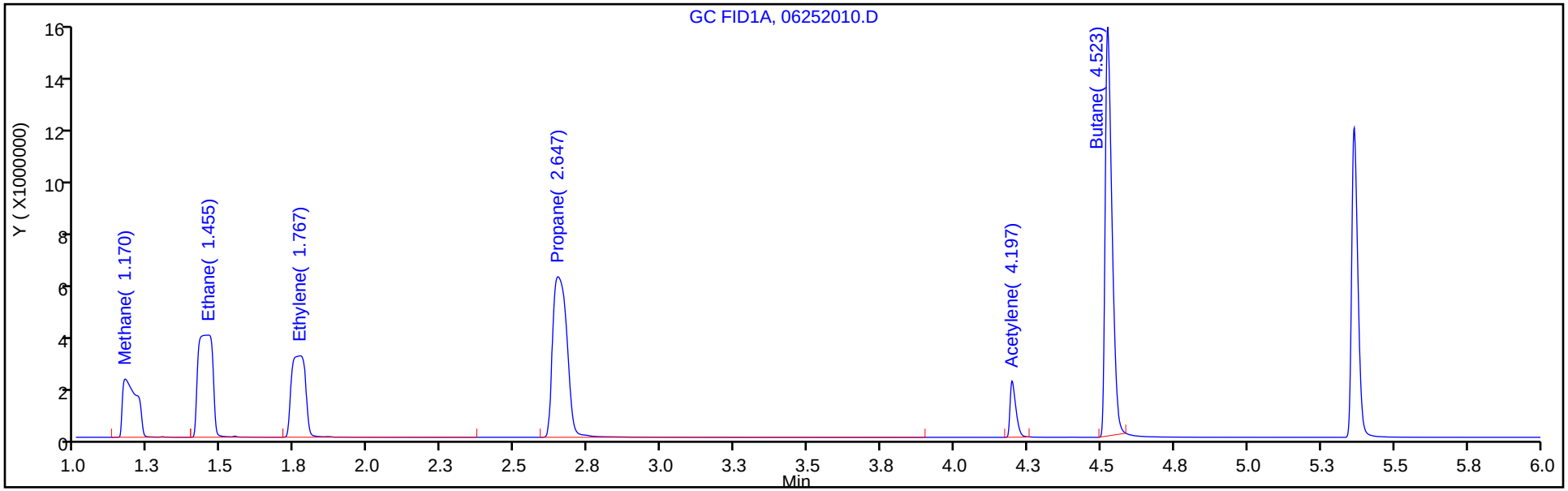
Report Date: 26-Jun-2020 08:35:29 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

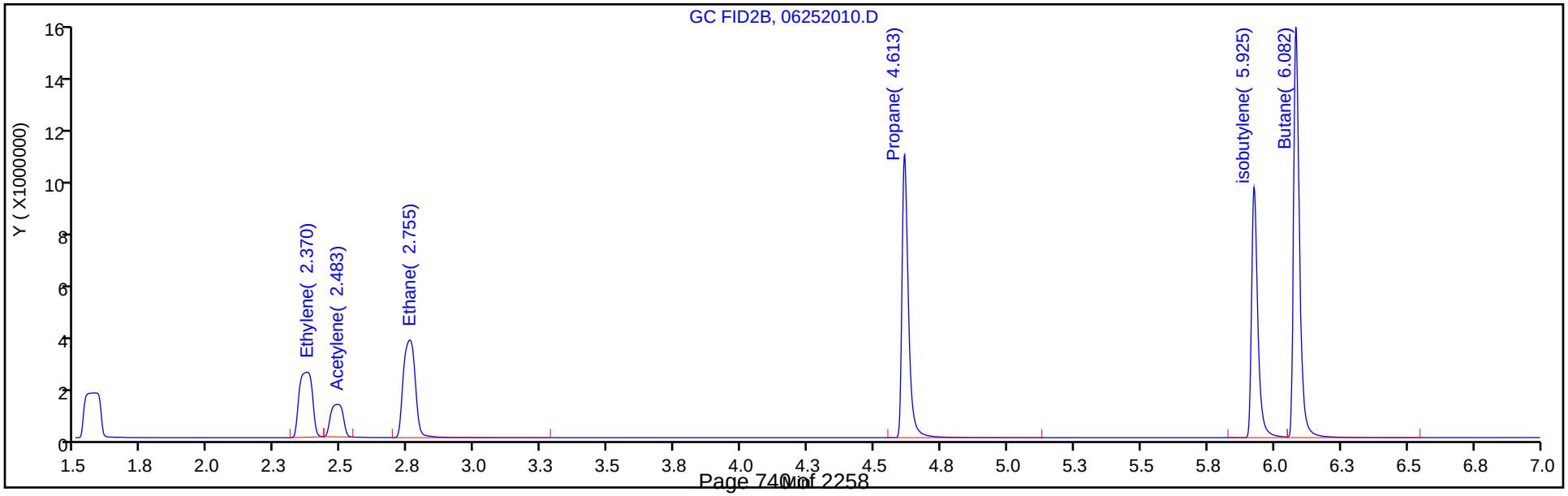
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252010.D

Injection Date:	25-Jun-2020 13:31:30	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	280-137736-H-9 MS			Worklist Smp#:	10
Client ID:	PZ019-20A				
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: PZ019-20A MSD Lab Sample ID: 280-137736-9 MSD

Matrix: Water Lab File ID: 06252011.D

Analysis Method: RSK-175 Date Collected: 06/16/2020 12:00

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 13:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.0627		0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252011.D
Lims ID: 280-137736-H-9 MSD
Client ID: PZ019-20A
Sample Type: MSD
Inject. Date: 25-Jun-2020 13:43:44 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: 280-137736-H-9MS
Misc. Info.: 280-0092746-011
Operator ID: gm Instrument ID: VGC_J

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 08:35:24 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

First Level Reviewer: meierg Date: 25-Jun-2020 14:08:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 1,1,1-Trifluoroethane							
1		4.098				ND	
2		5.458					
2 Methane							
1	1.168	1.182	-0.014	7626256	73.0	64.2	
2	1.575	1.591	-0.016	6785269	73.0	62.7	
						RPD = 2.31	
3 Ethane							
1	1.453	1.470	-0.017	13787724	136.9	120.3	
2	2.753	2.766	-0.013	11420468	136.9	117.6	
						RPD = 2.23	
4 Ethylene							
1	1.768	1.787	-0.019	10630140	127.7	115.8	
2	2.368	2.382	-0.014	8336516	127.7	114.1	
						RPD = 1.48	
5 Propane							
1	2.645	2.692	-0.047	21108311	200.7	178.8	
2	4.613	4.616	-0.003	17507482	200.7	175.0	
						RPD = 2.13	
6 Acetylene							Ma
1	4.195	4.225	-0.030	2919054	118.5	112.5	M
2	2.487	2.497	-0.010	3998726	118.5	116.5	M
						RPD = 3.46	
7 Butane							
1	4.522	4.550	-0.028	25187320	264.5	230.2	
2	6.082	6.086	-0.004	23136887	264.5	230.6	
						RPD = 0.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 isobutylene							
1	5.363	5.382	-0.019	17423774	255.4	243.2	
2	5.925	5.927	-0.002	15023750	255.4	239.5	
						RPD = 1.53	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

RSK7gasMathes_00027 Amount Added: 200.00 Units: uL

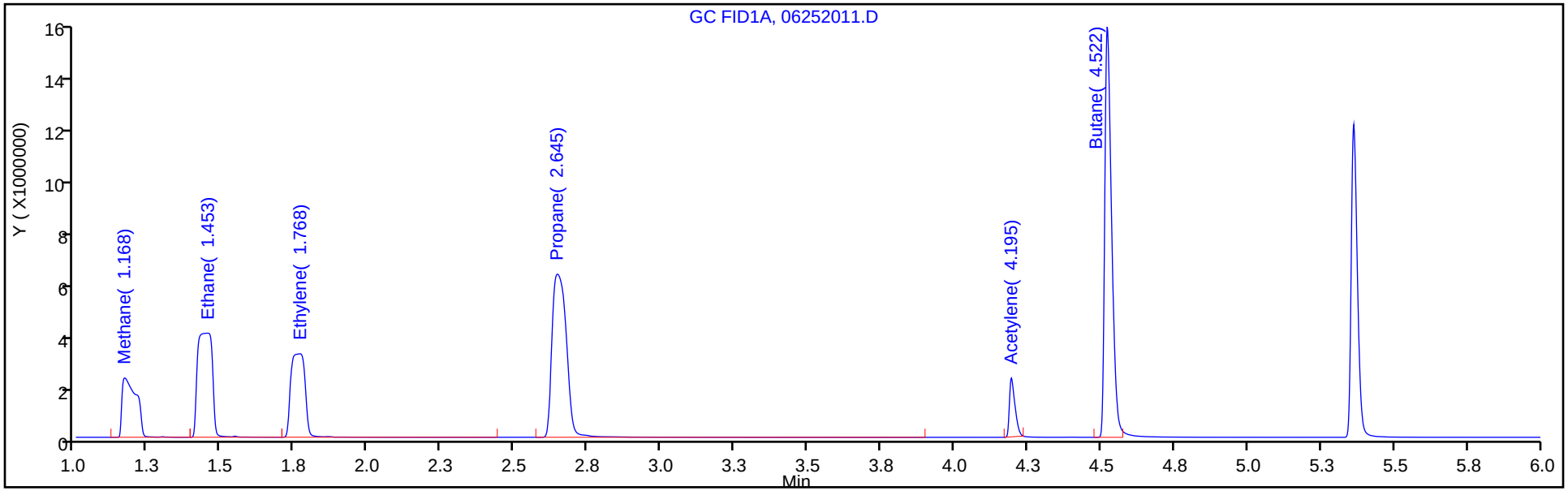
Report Date: 26-Jun-2020 08:35:29 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

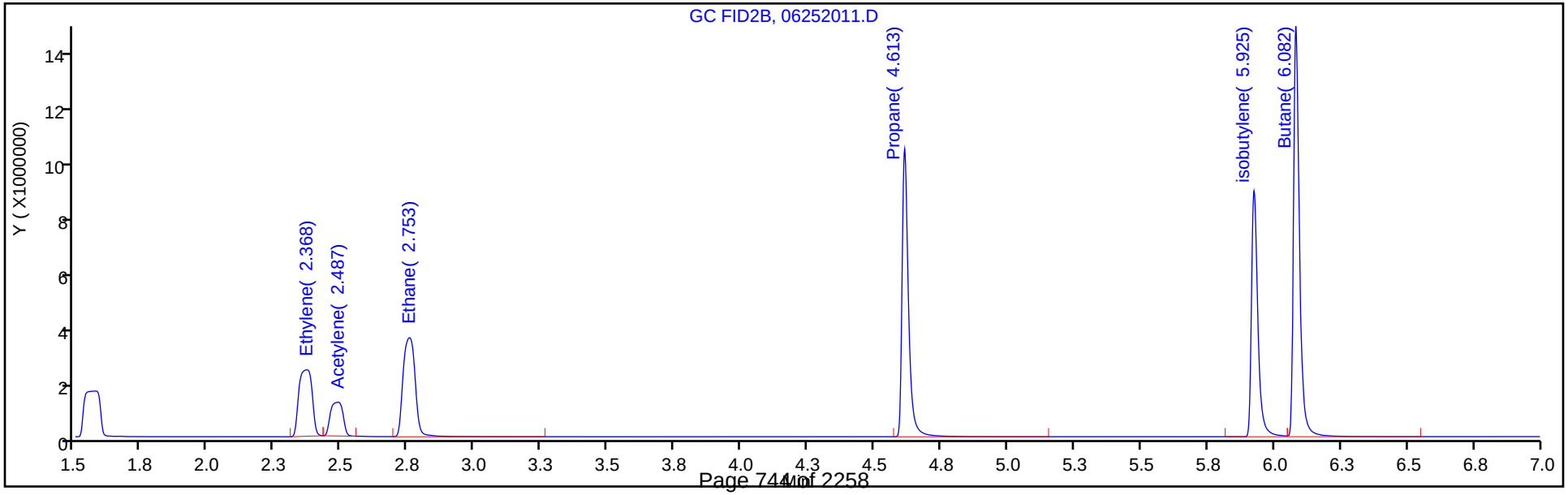
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252011.D

Injection Date:	25-Jun-2020 13:43:44	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	280-137736-H-9 MSD			Worklist Smp#:	11
Client ID:	PZ019-20A				
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: PZ019-20A DU Lab Sample ID: 280-137736-9 DU

Matrix: Water Lab File ID: 06252009.D

Analysis Method: RSK-175 Date Collected: 06/16/2020 12:00

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 13:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.0020	U	0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252009.D
Lims ID: 280-137736-G-9 DU
Client ID:
Sample Type: DU
Inject. Date: 25-Jun-2020 13:18:55 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 18.000 mL Dil. Factor: 1.0000
Sample Info: 280-137736-G-9DU
Misc. Info.: 280-0092746-009
Operator ID: gm Instrument ID: VGC_J

Method: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m
Limit Group: GCV - RSK 175
Method Label: DV-GC-0025: Dissolved Gases in Water by RSK-175
Last Update: 26-Jun-2020 08:35:24 Calib Date: 24-Jun-2020 11:46:32
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D

Column 1 : Rt-Alumina BOND/KCl (0.53 mm) Det: GC FID1A
Column 2 : HP-PLOT/Q (0.53 mm) Det: GC FID2B
Process Host: CTX1026

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 1,1,1-Trifluoroethane							
1		4.098				ND	
2		5.458					
2 Methane							
1		1.182				ND	
2		1.591					
3 Ethane							
1		1.470				ND	
2		2.766					
4 Ethylene							
1		1.787				ND	
2		2.382					
5 Propane							
1		2.692				ND	
2		4.616					
6 Acetylene							
1		4.225				ND	
2		2.497					
7 Butane							
1		4.550				ND	
2		6.086					
8 isobutylene							
1		5.382				ND	
2		5.927					

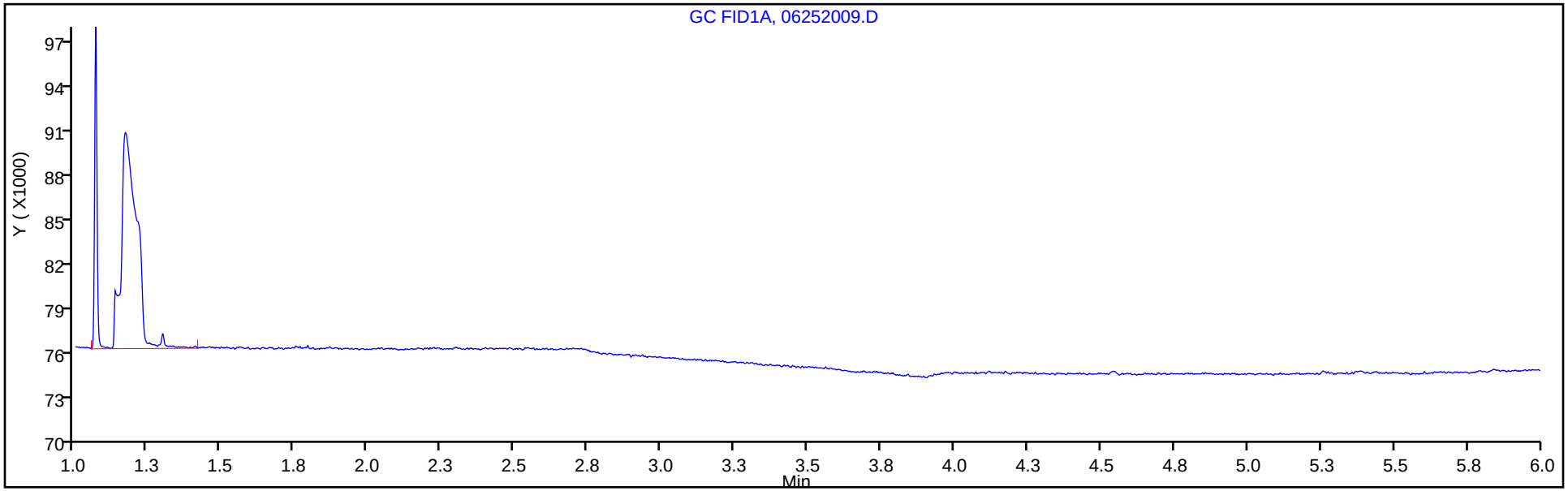
Report Date: 26-Jun-2020 08:35:28 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

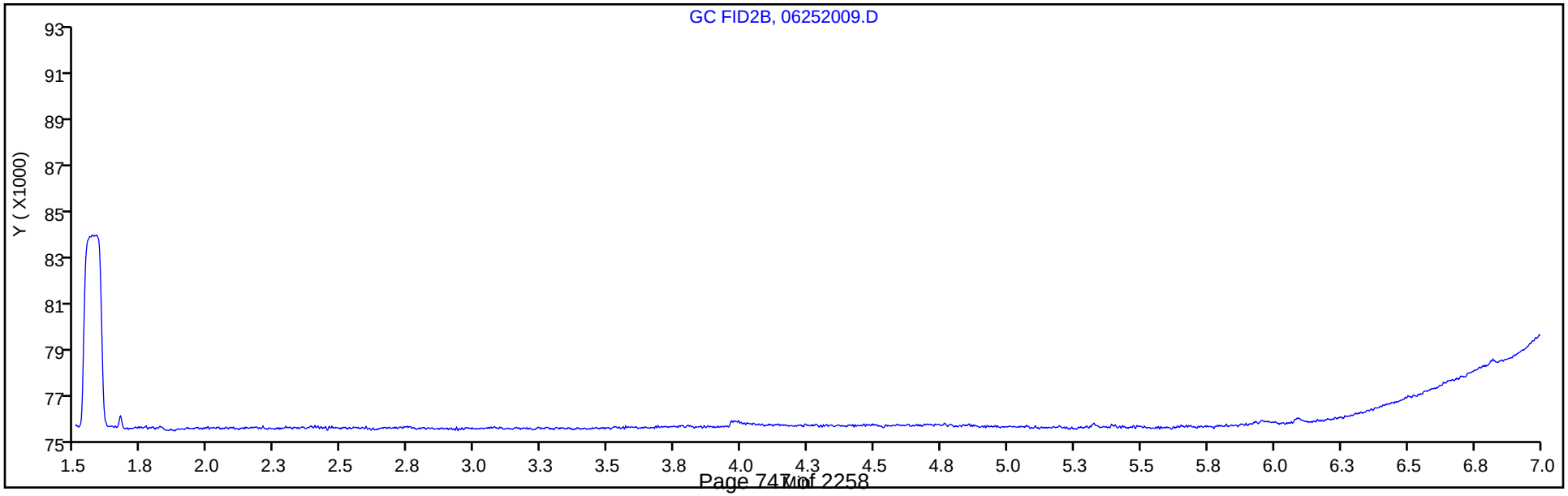
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252009.D

Injection Date:	25-Jun-2020 13:18:55	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	280-137736-G-9 DU			Worklist Smp#:	9
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: PZ020-20A DU Lab Sample ID: 280-137736-10 DU

Matrix: Water Lab File ID: 06252020.D

Analysis Method: RSK-175 Date Collected: 06/15/2020 15:40

Sample wt/vol: 18(mL) Date Analyzed: 06/25/2020 15:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: HP-Plot Q ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 500092 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
74-82-8	Methane	0.0020	U	0.0050	0.0020	0.00063

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252020.D				
Lims ID:	280-137736-G-10 DU				
Client ID:					
Sample Type:	DU				
Inject. Date:	25-Jun-2020 15:34:04	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	18.000 mL	Dil. Factor:	1.0000		
Sample Info:	280-137736-G-10D				
Misc. Info.:	280-0092746-020				
Operator ID:	gm	Instrument ID:	VGC_J		
Method:	\\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\RSK_J.m				
Limit Group:	GCV - RSK 175				
Method Label:	DV-GC-0025: Dissolved Gases in Water by RSK-175				
Last Update:	26-Jun-2020 08:35:32	Calib Date:	24-Jun-2020 11:46:32		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\VGC_J\20200624-92709.b\06242009.D				
Column 1 :	Rt-Alumina BOND/KCl (0.53 mm)		Det: GC FID1A		
Column 2 :	HP-PLOT/Q (0.53 mm)		Det: GC FID2B		
Process Host:	CTX1026				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 1 1,1,1-Trifluoroethane							
1		4.098				ND	
2		5.458					
2 Methane							
1		1.182				ND	
2		1.591					
3 Ethane							
1		1.470				ND	
2		2.766					
4 Ethylene							
1		1.787				ND	
2		2.382					
5 Propane							
1		2.692				ND	
2		4.616					
6 Acetylene							
1		4.225				ND	
2		2.497					
7 Butane							
1		4.550				ND	
2		6.086					
8 isobutylene							
1		5.382				ND	
2		5.927					

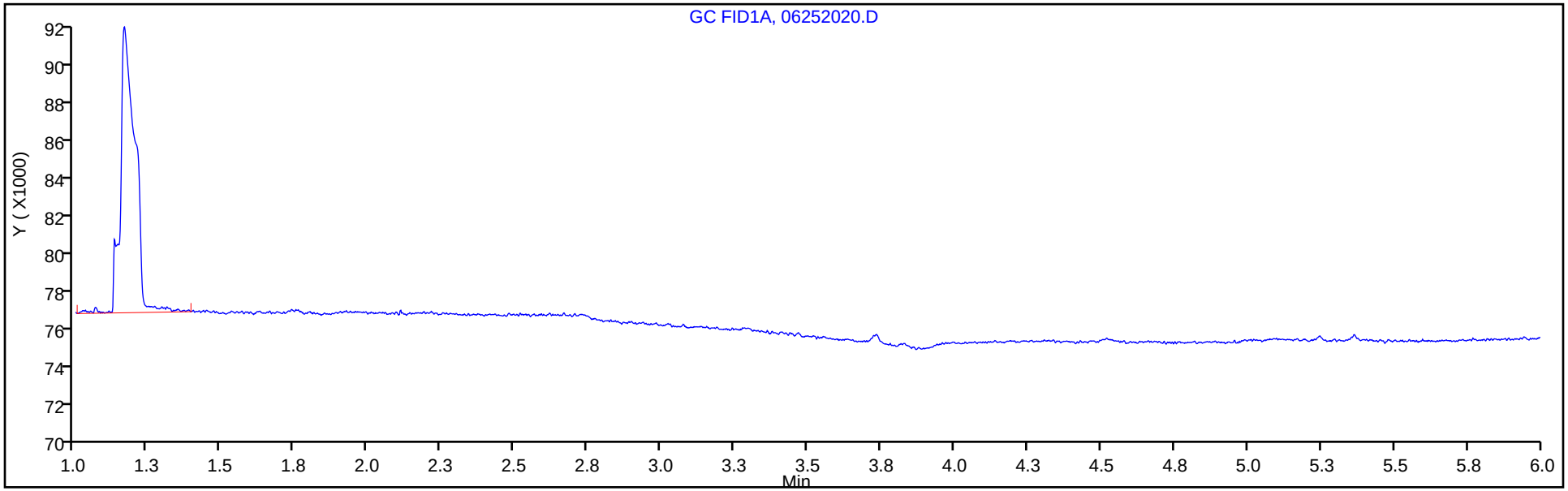
Report Date: 26-Jun-2020 08:35:33 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

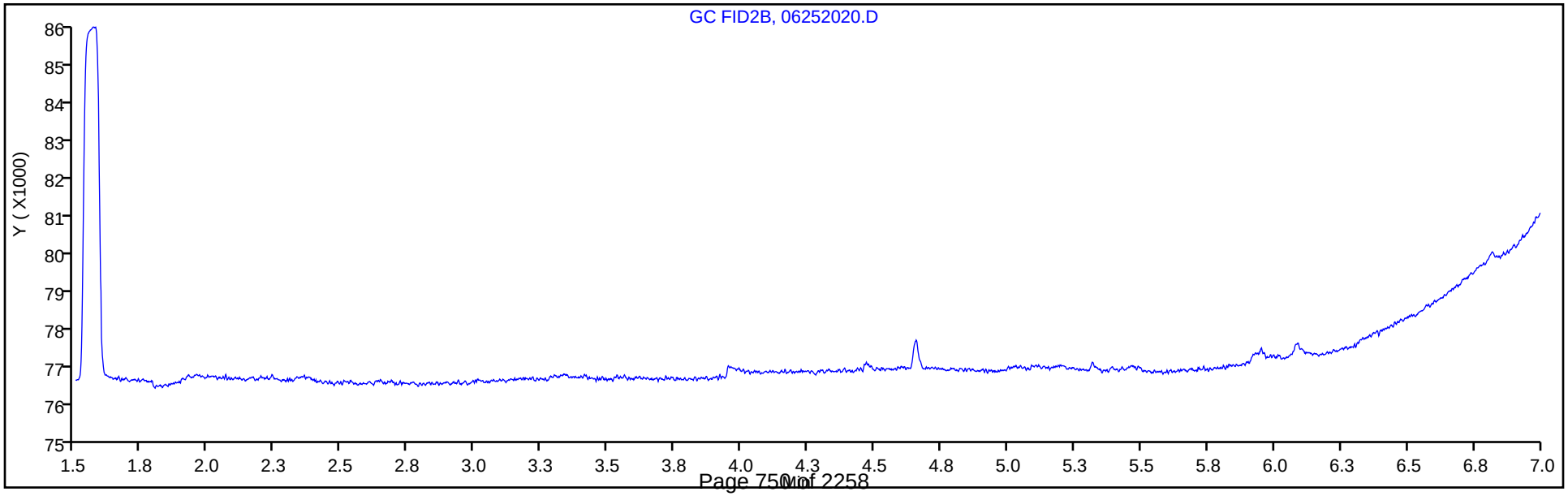
Data File: \\chromfs\Denver\ChromData\VGC_J\20200625-92746.b\06252020.D

Injection Date:	25-Jun-2020 15:34:04	Instrument ID:	VGC_J	Operator ID:	gm
Lims ID:	280-137736-G-10 DU			Worklist Smp#:	20
Client ID:					
Purge Vol:	18.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	RSK_J	Limit Group:	GCV - RSK 175		

Column: Rt-Alumina BOND/KCl (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Column: HP-PLOT/Q (0.53 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: VGC_J Start Date: 06/24/2020 10:08

Analysis Batch Number: 499937 End Date: 06/24/2020 12:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 280-499937/1		06/24/2020 10:08	1	06242001.D	Rt-Alumina KCl 0.53(mm)
IC 280-499937/1		06/24/2020 10:08	1	06242001.D	HP-Plot Q 0.53(mm)
IC 280-499937/2		06/24/2020 10:20	1	06242002.D	Rt-Alumina KCl 0.53(mm)
IC 280-499937/2		06/24/2020 10:20	1	06242002.D	HP-Plot Q 0.53(mm)
IC 280-499937/3		06/24/2020 10:33	1	06242003.D	Rt-Alumina KCl 0.53(mm)
IC 280-499937/3		06/24/2020 10:33	1	06242003.D	HP-Plot Q 0.53(mm)
ICRT 280-499937/4		06/24/2020 10:45	1	06242004.D	Rt-Alumina KCl 0.53(mm)
ICRT 280-499937/4		06/24/2020 10:45	1	06242004.D	HP-Plot Q 0.53(mm)
IC 280-499937/5		06/24/2020 10:57	1	06242005.D	Rt-Alumina KCl 0.53(mm)
IC 280-499937/5		06/24/2020 10:57	1	06242005.D	HP-Plot Q 0.53(mm)
IC 280-499937/6		06/24/2020 11:09	1	06242006.D	Rt-Alumina KCl 0.53(mm)
IC 280-499937/6		06/24/2020 11:09	1	06242006.D	HP-Plot Q 0.53(mm)
IC 280-499937/7		06/24/2020 11:22	1	06242007.D	Rt-Alumina KCl 0.53(mm)
IC 280-499937/7		06/24/2020 11:22	1	06242007.D	HP-Plot Q 0.53(mm)
IC 280-499937/8		06/24/2020 11:34	1	06242008.D	Rt-Alumina KCl 0.53(mm)
IC 280-499937/8		06/24/2020 11:34	1	06242008.D	HP-Plot Q 0.53(mm)
IC 280-499937/9		06/24/2020 11:46	1	06242009.D	Rt-Alumina KCl 0.53(mm)
IC 280-499937/9		06/24/2020 11:46	1	06242009.D	HP-Plot Q 0.53(mm)
ICV 280-499937/11		06/24/2020 12:11	1	06242011.D	Rt-Alumina KCl 0.53(mm)
ICV 280-499937/11		06/24/2020 12:11	1	06242011.D	HP-Plot Q 0.53(mm)

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: VGC_J Start Date: 06/25/2020 11:33

Analysis Batch Number: 500092 End Date: 06/25/2020 17:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 280-500092/1		06/25/2020 11:33	1	06252001.D	Rt-Alumina KCl 0.53(mm)
CCVRT 280-500092/1		06/25/2020 11:33	1	06252001.D	HP-Plot Q 0.53(mm)
LCS 280-500092/2		06/25/2020 11:45	1	06252002.D	Rt-Alumina KCl 0.53(mm)
LCS 280-500092/2		06/25/2020 11:45	1	06252002.D	HP-Plot Q 0.53(mm)
LCSD 280-500092/3		06/25/2020 11:57	1	06252003.D	Rt-Alumina KCl 0.53(mm)
LCSD 280-500092/3		06/25/2020 11:57	1	06252003.D	HP-Plot Q 0.53(mm)
MB 280-500092/4		06/25/2020 12:09	1	06252004.D	Rt-Alumina KCl 0.53(mm)
MB 280-500092/4		06/25/2020 12:09	1	06252004.D	HP-Plot Q 0.53(mm)
ZZZZZ		06/25/2020 12:30	1		Rt-Alumina KCl 0.53(mm)
ZZZZZ		06/25/2020 12:30	1		HP-Plot Q 0.53(mm)
ZZZZZ		06/25/2020 12:42	1		Rt-Alumina KCl 0.53(mm)
ZZZZZ		06/25/2020 12:42	1		HP-Plot Q 0.53(mm)
ZZZZZ		06/25/2020 12:54	1		Rt-Alumina KCl 0.53(mm)
ZZZZZ		06/25/2020 12:54	1		HP-Plot Q 0.53(mm)
280-137736-9		06/25/2020 13:06	1	06252008.D	Rt-Alumina KCl 0.53(mm)
280-137736-9		06/25/2020 13:06	1	06252008.D	HP-Plot Q 0.53(mm)
280-137736-9 DU		06/25/2020 13:18	1	06252009.D	Rt-Alumina KCl 0.53(mm)
280-137736-9 DU		06/25/2020 13:18	1	06252009.D	HP-Plot Q 0.53(mm)
280-137736-9 MS		06/25/2020 13:31	1	06252010.D	Rt-Alumina KCl 0.53(mm)
280-137736-9 MS		06/25/2020 13:31	1	06252010.D	HP-Plot Q 0.53(mm)
280-137736-9 MSD		06/25/2020 13:43	1	06252011.D	Rt-Alumina KCl 0.53(mm)
280-137736-9 MSD		06/25/2020 13:43	1	06252011.D	HP-Plot Q 0.53(mm)
280-137736-3		06/25/2020 13:55	1	06252012.D	Rt-Alumina KCl 0.53(mm)
280-137736-3		06/25/2020 13:55	1	06252012.D	HP-Plot Q 0.53(mm)
280-137736-4		06/25/2020 14:08	1	06252013.D	Rt-Alumina KCl 0.53(mm)
280-137736-4		06/25/2020 14:08	1	06252013.D	HP-Plot Q 0.53(mm)
280-137736-5		06/25/2020 14:20	1	06252014.D	Rt-Alumina KCl 0.53(mm)
280-137736-5		06/25/2020 14:20	1	06252014.D	HP-Plot Q 0.53(mm)
280-137736-6		06/25/2020 14:32	1	06252015.D	Rt-Alumina KCl 0.53(mm)
280-137736-6		06/25/2020 14:32	1	06252015.D	HP-Plot Q 0.53(mm)
280-137736-7		06/25/2020 14:45	1	06252016.D	Rt-Alumina KCl 0.53(mm)
280-137736-7		06/25/2020 14:45	1	06252016.D	HP-Plot Q 0.53(mm)
280-137736-8		06/25/2020 14:57	1	06252017.D	Rt-Alumina KCl 0.53(mm)
280-137736-8		06/25/2020 14:57	1	06252017.D	HP-Plot Q 0.53(mm)
CCV 280-500092/18		06/25/2020 15:09	1	06252018.D	Rt-Alumina KCl 0.53(mm)
CCV 280-500092/18		06/25/2020 15:09	1	06252018.D	HP-Plot Q 0.53(mm)
280-137736-10		06/25/2020 15:21	1	06252019.D	Rt-Alumina KCl 0.53(mm)
280-137736-10		06/25/2020 15:21	1	06252019.D	HP-Plot Q 0.53(mm)
280-137736-10 DU		06/25/2020 15:34	1	06252020.D	Rt-Alumina KCl 0.53(mm)
280-137736-10 DU		06/25/2020 15:34	1	06252020.D	HP-Plot Q 0.53(mm)
280-137736-11		06/25/2020 15:46	1	06252021.D	Rt-Alumina KCl 0.53(mm)
280-137736-11		06/25/2020 15:46	1	06252021.D	HP-Plot Q 0.53(mm)
280-137736-12		06/25/2020 15:58	1	06252022.D	Rt-Alumina KCl 0.53(mm)
280-137736-12		06/25/2020 15:58	1	06252022.D	HP-Plot Q 0.53(mm)
280-137736-13		06/25/2020 16:10	1	06252023.D	Rt-Alumina KCl 0.53(mm)

RSK-175

GC VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: VGC_J Start Date: 06/25/2020 11:33

Analysis Batch Number: 500092 End Date: 06/25/2020 17:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
280-137736-13		06/25/2020 16:10	1	06252023.D	HP-Plot Q 0.53(mm)
280-137736-14		06/25/2020 16:22	1	06252024.D	Rt-Alumina KCl 0.53(mm)
280-137736-14		06/25/2020 16:22	1	06252024.D	HP-Plot Q 0.53(mm)
280-137736-15		06/25/2020 16:35	1	06252025.D	Rt-Alumina KCl 0.53(mm)
280-137736-15		06/25/2020 16:35	1	06252025.D	HP-Plot Q 0.53(mm)
280-137736-16		06/25/2020 16:47	1	06252026.D	Rt-Alumina KCl 0.53(mm)
280-137736-16		06/25/2020 16:47	1	06252026.D	HP-Plot Q 0.53(mm)
280-137736-17		06/25/2020 16:59	1	06252027.D	Rt-Alumina KCl 0.53(mm)
280-137736-17		06/25/2020 16:59	1	06252027.D	HP-Plot Q 0.53(mm)
ZZZZZ		06/25/2020 17:11	1		Rt-Alumina KCl 0.53(mm)
ZZZZZ		06/25/2020 17:11	1		HP-Plot Q 0.53(mm)
ZZZZZ		06/25/2020 17:23	1		Rt-Alumina KCl 0.53(mm)
ZZZZZ		06/25/2020 17:23	1		HP-Plot Q 0.53(mm)
CCV 280-500092/30		06/25/2020 17:36	1	06252030.D	Rt-Alumina KCl 0.53(mm)
CCV 280-500092/30		06/25/2020 17:36	1	06252030.D	HP-Plot Q 0.53(mm)

GC VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 500092 Batch Start Date: 06/25/20 11:33 Batch Analyst: Meier, Greg P

Batch Method: RSK-175 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	RSK7gasMathes 00027	RSK7gasMathes 00031	
CCVRT 280-500092/1		RSK-175		18 mL	18 mL	5 SU		200 uL	
LCS 280-500092/2		RSK-175		18 mL	18 mL	5 SU	200 uL		
LCSD 280-500092/3		RSK-175		18 mL	18 mL	5 SU	200 uL		
MB 280-500092/4		RSK-175		18 mL	18 mL	5 SU			
280-137736-G-9	PZ019-20A	RSK-175	T	18 mL	18 mL	<2 SU			
280-137736-G-9 DU	PZ019-20A	RSK-175	T	18 mL	18 mL	<2 SU			
280-137736-H-9 MS	PZ019-20A	RSK-175	T	18 mL	18 mL	<2 SU	200 uL		
280-137736-H-9 MSD	PZ019-20A	RSK-175	T	18 mL	18 mL	<2 SU	200 uL		
280-137736-I-3	G0091-20A	RSK-175	T	18 mL	18 mL	<2 SU			
280-137736-G-4	G0123-20A	RSK-175	T	18 mL	18 mL	<2 SU			
280-137736-G-5	G0122-20A	RSK-175	T	18 mL	18 mL	<2 SU			
280-137736-G-6	G0096-20A	RSK-175	T	18 mL	18 mL	<2 SU			
280-137736-I-7	G0296-20A	RSK-175	T	18 mL	18 mL	<2 SU			
280-137736-G-8	G0092-20A	RSK-175	T	18 mL	18 mL	<2 SU			
CCV 280-500092/18		RSK-175		18 mL	18 mL	5 SU		200 uL	
280-137736-G-10	PZ020-20A	RSK-175	T	18 mL	18 mL	<2 SU			
280-137736-G-10 DU	PZ020-20A	RSK-175	T	18 mL	18 mL	<2 SU			
280-137736-I-11	G0087-20A	RSK-175	T	18 mL	18 mL	<2 SU			
280-137736-I-12	G0088-20A	RSK-175	T	18 mL	18 mL	<2 SU			
280-137736-G-13	G0089-20A	RSK-175	T	18 mL	18 mL	<2 SU			
280-137736-G-14	G0077-20A	RSK-175	T	18 mL	18 mL	<2 SU			
280-137736-H-15	G0078-20A	RSK-175	T	18 mL	18 mL	<2 SU			
280-137736-H-16	G0093-20A	RSK-175	T	18 mL	18 mL	<2 SU			
280-137736-G-17	G0086-20A	RSK-175	T	18 mL	18 mL	<2 SU			
CCV 280-500092/30		RSK-175		18 mL	18 mL	5 SU		200 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 500092 Batch Start Date: 06/25/20 11:33 Batch Analyst: Meier, Greg P

Batch Method: RSK-175 Batch End Date:

Batch Notes	

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.

8330A_DOD5

Nitroaromatics and Nitramines (HPLC)

FORM II
HPLC/IC SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): UltraCarb5u ID: 4.6 (mm) GC Column (2): Luna-phenyl 4.6 (mm)

Client Sample ID	Lab Sample ID	12DNB1 #	12DNB2 #
WC-Q3-JUNE20	280-137736-1		169 M Q
WC-Q3-JUNE20	280-137736-1	115 M	
G0091-20A	280-137736-3		90 M
G0091-20A	280-137736-3	95 M	
G0123-20A	280-137736-4		90
G0123-20A	280-137736-4	98 M	
G0123-20A DL	280-137736-4 DL		105 M D
G0123-20A DL	280-137736-4 DL	125 D M Q	
G0122-20A	280-137736-5		94
G0122-20A	280-137736-5	98 M	
G0096-20A	280-137736-6	93 M	
G0096-20A DL	280-137736-6 DL		83 M
G0096-20A DL	280-137736-6 DL	98 D	
G0296-20A	280-137736-7		102
G0296-20A	280-137736-7	98 M	
G0296-20A DL	280-137736-7 DL		82 Q M D
G0296-20A DL	280-137736-7 DL	114 D	
G0092-20A	280-137736-8		96
G0092-20A	280-137736-8	98 M	
PZ019-20A	280-137736-9	99 M	
PZ020-20A	280-137736-10		96 M
PZ020-20A	280-137736-10	97 M	
PZ020-20A RE	280-137736-10 RE		99 M
PZ020-20A RE	280-137736-10 RE	103 M	
G0087-20A	280-137736-11		96 M
G0087-20A	280-137736-11	101 M	
G0087-20A RE	280-137736-11 RE		101
G0087-20A RE	280-137736-11 RE	106 M	
G0088-20A	280-137736-12		87
G0088-20A	280-137736-12	88	
G0088-20A RE	280-137736-12 RE		104 M
G0088-20A RE	280-137736-12 RE	107 M	
G0089-20A	280-137736-13		89
G0089-20A	280-137736-13	88 M	

	QC LIMITS
12DNB = 1,2-Dinitrobenzene	83-119

Column to be used to flag recovery values

FORM II 8330A

FORM II
HPLC/IC SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): UltraCarb5u ID: 4.6 (mm) GC Column (2): Luna-phenyl 4.6 (mm)

Client Sample ID	Lab Sample ID	12DNB1 #	12DNB2 #
G0089-20A RE	280-137736-13 RE		100
G0089-20A RE	280-137736-13 RE	100 M	
G0077-20A	280-137736-14		79 Q
G0077-20A	280-137736-14	77 Q	
G0078-20A	280-137736-15	81 M Q	
G0093-20A	280-137736-16		75 M Q
G0093-20A	280-137736-16	69 Q M	
G0086-20A	280-137736-17		78 Q
G0086-20A	280-137736-17	81 Q	
	MB 280-499406/1-A	87	
	MB 280-499527/1-A	104	
	MB 280-500616/1-A	101	
	LCS 280-499406/2-A	79 Q	
	LCS 280-499406/4-A	91	
	LCS 280-499527/2-A	102	
	LCS 280-499527/3-A	95 M	
	LCS 280-500616/2-A	103	
	LCS 280-500616/4-A	111 M	
	LCSD 280-499406/3-A	101	
	LCSD 280-499406/5-A	98 M	
	LCSD 280-500616/3-A	104	
	LCSD 280-500616/5-A	105	
PZ019-20A MS	280-137736-9 MS	102	
PZ019-20A MS	280-137736-9 MS	93 M	
PZ019-20A MSD	280-137736-9 MSD	90	
PZ019-20A MSD	280-137736-9 MSD	89 M	

	QC LIMITS
12DNB = 1,2-Dinitrobenzene	83-119

Column to be used to flag recovery values

FORM II 8330A

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06260014.D

Lab ID: LCS 280-499406/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.00	1.92	96	73-125	Q
1,3-Dinitrobenzene	2.00	1.73	86	78-120	Q
2,4,6-Trinitrotoluene	2.00	1.94	97	71-123	Q
2,4-Dinitrotoluene	2.00	1.59	80	78-120	Q
2,6-Dinitrotoluene	2.00	1.64	82	77-127	Q
2-Amino-4,6-dinitrotoluene	2.00	1.52	76	79-120	Q
2-Nitrotoluene	2.00	1.21	60	70-127	Q
3-Nitrotoluene	2.00	1.35	67	73-125	Q
4-Amino-2,6-dinitrotoluene	2.00	1.36	68	76-125	Q
4-Nitrotoluene	2.00	1.36	68	71-127	Q
HMX	2.00	2.19	110	65-135	Q
Nitrobenzene	2.00	1.45	72	65-134	Q
RDX	2.00	1.83	92	68-130	Q
Tetryl	2.00	1.79	90	64-128	Q

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06240037.D

Lab ID: LCS 280-499406/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
MNX	2.33	1.63 J	70	57-132	

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06240011.D

Lab ID: LCS 280-499527/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.00	2.40	120	73-125	
1,3-Dinitrobenzene	2.00	2.26	113	78-120	
2,4,6-Trinitrotoluene	2.00	2.34	117	71-123	
2,4-Dinitrotoluene	2.00	2.11	105	78-120	
2,6-Dinitrotoluene	2.00	2.18	109	77-127	
2-Amino-4,6-dinitrotoluene	2.00	2.02	101	79-120	
2-Nitrotoluene	2.00	1.68	84	70-127	
3-Nitrotoluene	2.00	1.85	93	73-125	M
4-Amino-2,6-dinitrotoluene	2.00	1.82	91	76-125	
4-Nitrotoluene	2.00	1.88	94	71-127	
HMX	2.00	2.16	108	65-135	M
Nitrobenzene	2.00	1.97	99	65-134	
RDX	2.00	2.10	105	68-130	
Tetryl	2.00	2.11	106	64-128	

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06240012.D

Lab ID: LCS 280-499527/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
MNX	2.33	2.00	86	57-132	M

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06300025.D

Lab ID: LCS 280-500616/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.00	2.23	111	73-125	
1,3-Dinitrobenzene	2.00	2.10	105	78-120	
2,4,6-Trinitrotoluene	2.00	2.21	111	71-123	
2,4-Dinitrotoluene	2.00	1.96	98	78-120	
2,6-Dinitrotoluene	2.00	2.01	101	77-127	
2-Amino-4,6-dinitrotoluene	2.00	1.89	95	79-120	
2-Nitrotoluene	2.00	1.70	85	70-127	
3-Nitrotoluene	2.00	1.92	96	73-125	
4-Amino-2,6-dinitrotoluene	2.00	1.68	84	76-125	
4-Nitrotoluene	2.00	1.76	88	71-127	
HMX	2.00	2.20	110	65-135	
Nitrobenzene	2.00	1.97	99	65-134	
RDX	2.00	2.00	100	68-130	
Tetryl	2.00	1.97	99	64-128	

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06300027.D

Lab ID: LCS 280-500616/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
MNX	2.33	1.99 J	85	57-132	M

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 015-1401.D

Lab ID: LCSD 280-499406/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.00	2.37	118	21	30	73-125	
1,3-Dinitrobenzene	2.00	2.21	111	25	30	78-120	
2,4,6-Trinitrotoluene	2.00	2.35	117	19	30	71-123	
2,4-Dinitrotoluene	2.00	2.08	104	26	30	78-120	
2,6-Dinitrotoluene	2.00	2.11	105	25	30	77-127	
2-Amino-4,6-dinitrotoluene	2.00	2.02	101	28	30	79-120	
2-Nitrotoluene	2.00	1.63	81	30	30	70-127	
3-Nitrotoluene	2.00	1.82	91	30	30	73-125	
4-Amino-2,6-dinitrotoluene	2.00	1.77	89	27	30	76-125	
4-Nitrotoluene	2.00	1.81	90	28	30	71-127	
HMX	2.00	2.20	110	0	30	65-135	M
Nitrobenzene	2.00	1.90	95	27	30	65-134	
RDX	2.00	2.13	106	15	30	68-130	
Tetryl	2.00	2.11	105	16	30	64-128	

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06240038.D

Lab ID: LCSD 280-499406/5-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
MNX	2.33	2.00	86	21	30	57-132	M

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06300026.D

Lab ID: LCSD 280-500616/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.00	2.33	117	5	30	73-125	
1,3-Dinitrobenzene	2.00	2.23	111	6	30	78-120	
2,4,6-Trinitrotoluene	2.00	2.31	116	4	30	71-123	
2,4-Dinitrotoluene	2.00	2.07	103	5	30	78-120	
2,6-Dinitrotoluene	2.00	2.12	106	5	30	77-127	
2-Amino-4,6-dinitrotoluene	2.00	2.02	101	6	30	79-120	
2-Nitrotoluene	2.00	1.86	93	9	30	70-127	
3-Nitrotoluene	2.00	2.07	103	7	30	73-125	
4-Amino-2,6-dinitrotoluene	2.00	1.80	90	7	30	76-125	
4-Nitrotoluene	2.00	1.92	96	9	30	71-127	
HMX	2.00	2.21	111	1	30	65-135	M
Nitrobenzene	2.00	2.17	108	9	30	65-134	
RDX	2.00	2.11	106	6	30	68-130	
Tetryl	2.00	2.05	103	4	30	64-128	

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06300028.D

Lab ID: LCSD 280-500616/5-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
MNX	2.33	2.16	92	8	30	57-132	

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06240024.D

Lab ID: 280-137736-9 MS Client ID: PZ019-20A MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.10	0.21 U	2.45	117	73-125	
1,3-Dinitrobenzene	2.10	0.11 U	2.40	114	78-120	
2,4,6-Trinitrotoluene	2.10	0.11 U	2.43	116	71-123	
2,4-Dinitrotoluene	2.10	0.084 U	2.19	105	78-120	
2,6-Dinitrotoluene	2.10	0.084 U	2.25	107	77-127	
2-Amino-4,6-dinitrotoluene	2.10	0.11 U	2.08	99	79-120	
2-Nitrotoluene	2.10	0.21 U	1.88	90	70-127	
3-Nitrotoluene	2.10	0.42 U	2.10	100	73-125	
4-Amino-2,6-dinitrotoluene	2.10	0.13 U	1.90	90	76-125	
4-Nitrotoluene	2.10	0.42 U	1.96	93	71-127	
HMX	2.10	0.21 U	2.23	106	65-135	M
Nitrobenzene	2.10	0.21 U	2.31	110	65-134	
RDX	2.10	0.21 U	2.22	106	68-130	M
Tetryl	2.10	0.11 U	2.23	106	64-128	

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM III
HPLC/IC MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06240026.D

Lab ID: 280-137736-9 MS Client ID: PZ019-20A MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
MNX	2.47	0.42 U	2.18	88	57-132	M

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM III
HPLC/IC MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06240025.D

Lab ID: 280-137736-9 MSD Client ID: PZ019-20A MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.10	2.23	106	9	30	73-125	
1,3-Dinitrobenzene	2.10	2.13	101	12	30	78-120	
2,4,6-Trinitrotoluene	2.10	2.30	109	6	30	71-123	
2,4-Dinitrotoluene	2.10	1.99	95	10	30	78-120	
2,6-Dinitrotoluene	2.10	2.07	99	8	30	77-127	
2-Amino-4,6-dinitrotoluene	2.10	1.87	89	11	30	79-120	
2-Nitrotoluene	2.10	1.66	79	12	30	70-127	
3-Nitrotoluene	2.10	1.79	85	16	30	73-125	M
4-Amino-2,6-dinitrotoluene	2.10	1.69	80	12	30	76-125	
4-Nitrotoluene	2.10	1.76	83	11	30	71-127	
HMX	2.10	2.15	102	3	30	65-135	M
Nitrobenzene	2.10	1.95	93	17	30	65-134	
RDX	2.10	2.13	101	4	30	68-130	M
Tetryl	2.10	2.14	102	4	30	64-128	

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM III
HPLC/IC MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 06240027.D

Lab ID: 280-137736-9 MSD Client ID: PZ019-20A MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
MNX	2.47	2.08 J	84	5	30	57-132	M

Column to be used to flag recovery and RPD values

FORM III 8330A

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: MB 280-499406/1-A

Matrix: Water Date Extracted: 06/19/2020 15:47

Lab File ID:(1) 06240034.D Lab File ID:(2)

Date Analyzed:(1) 06/25/2020 02:37 Date Analyzed:(2)

Instrument ID:(1) CHHPLC_X3 Instrument ID:(2) CHHPLC_G2_LUNA

GC Column:(1) UltraCarb5uO ID: 4.6(mm) GC Column:(2) Luna-phenylh 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 280-499406/4-A	06/25/2020 03:46	
	LCSD 280-499406/5-A	06/25/2020 04:09	
PZ020-20A	280-137736-10	06/25/2020 08:22	06/27/2020 15:36
G0087-20A	280-137736-11	06/25/2020 08:45	06/27/2020 16:10
G0088-20A	280-137736-12	06/25/2020 09:08	06/27/2020 16:45
G0089-20A	280-137736-13	06/25/2020 09:31	06/27/2020 17:20
	LCS 280-499406/2-A	06/26/2020 19:53	
	LCSD 280-499406/3-A	06/26/2020 20:39	

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: MB 280-499527/1-A

Matrix: Water Date Extracted: 06/20/2020 17:13

Lab File ID:(1) 06240010.D Lab File ID:(2)

Date Analyzed:(1) 06/24/2020 17:25 Date Analyzed:(2)

Instrument ID:(1) CHHPLC_X3 Instrument ID:(2) CHHPLC_G2_LUNA

GC Column:(1) UltraCarb5uO ID: 4.6(mm) GC Column:(2) Luna-phenylh 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 280-499527/2-A	06/24/2020 17:48	
	LCS 280-499527/3-A	06/24/2020 18:11	
WC-Q3-JUNE20	280-137736-1	06/24/2020 18:57	06/26/2020 21:29
G0091-20A	280-137736-3	06/24/2020 19:20	06/26/2020 22:04
G0123-20A	280-137736-4	06/24/2020 19:43	06/26/2020 22:39
G0122-20A	280-137736-5	06/24/2020 20:06	06/26/2020 23:49
G0096-20A	280-137736-6	06/24/2020 20:29	06/27/2020 00:24
G0296-20A	280-137736-7	06/24/2020 20:52	06/27/2020 02:44
G0092-20A	280-137736-8	06/24/2020 22:01	06/27/2020 03:54
PZ019-20A	280-137736-9	06/24/2020 22:24	
PZ019-20A MS	280-137736-9 MS	06/24/2020 22:47	
PZ019-20A MSD	280-137736-9 MSD	06/24/2020 23:10	
PZ019-20A MS	280-137736-9 MS	06/24/2020 23:33	
PZ019-20A MSD	280-137736-9 MSD	06/24/2020 23:56	
G0077-20A	280-137736-14	06/25/2020 00:19	06/27/2020 04:29
G0078-20A	280-137736-15	06/25/2020 00:42	
G0086-20A	280-137736-17	06/25/2020 01:28	06/27/2020 05:39
G0123-20A DL	280-137736-4 DL	06/26/2020 18:21	06/26/2020 23:14
G0096-20A DL	280-137736-6 DL	06/26/2020 18:44	06/27/2020 00:59
G0296-20A DL	280-137736-7 DL	06/26/2020 19:07	06/27/2020 03:19
G0093-20A	280-137736-16	06/26/2020 19:30	06/27/2020 05:04

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: MB 280-500616/1-A

Matrix: Water Date Extracted: 06/30/2020 12:07

Lab File ID:(1) 06300024.D Lab File ID:(2)

Date Analyzed:(1) 07/01/2020 00:51 Date Analyzed:(2)

Instrument ID:(1) CHHPLC_X3 Instrument ID:(2) CHHPLC_G2_LUNA

GC Column:(1) UltraCarb5uO ID: 4.6(mm) GC Column:(2) Luna-phenylh 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 280-500616/2-A	07/01/2020 01:14	
	LCSD 280-500616/3-A	07/01/2020 01:37	
	LCS 280-500616/4-A	07/01/2020 02:00	
	LCSD 280-500616/5-A	07/01/2020 02:23	
PZ020-20A RE	280-137736-10 RE	07/01/2020 02:46	07/02/2020 02:26
G0087-20A RE	280-137736-11 RE	07/01/2020 03:09	07/02/2020 03:01
G0088-20A RE	280-137736-12 RE	07/01/2020 03:32	07/02/2020 03:36
G0089-20A RE	280-137736-13 RE	07/01/2020 03:54	07/02/2020 04:11

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0091-20A Lab Sample ID: 280-137736-3

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/24/2020 19:20 Date Analyzed (2): 06/26/2020 22:04

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
RDX	1		7.78	7.64	7.94	0.59		17.6
	2		9.34	9.22	9.52	0.49		
4-Amino-2,6-dinitrotoluene	1		11.38	11.29	11.49	0.21		44.2
	2		17.43	17.32	17.62	0.14		
2-Amino-4,6-dinitrotoluene	1		11.67	11.58	11.78	0.15		38.3
	2		18.37	18.26	18.56	0.22		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0123-20A Lab Sample ID: 280-137736-4

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/24/2020 19:43 Date Analyzed (2): 06/26/2020 22:39

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
HMX	1		6.72	6.56	6.86	62		10.5
	2		7.12	7.00	7.30	56		
MNX	1		7.42	7.23	7.53	5.9		54.1
	2		7.88	7.77	8.07	3.4		
RDX	1		7.78	7.64	7.94	45		4.0
	2		9.33	9.22	9.52	43		
4-Amino-2,6-dinitrotoluene	1		11.39	11.29	11.49	2.2		2.7
	2		17.43	17.32	17.62	2.2		
2-Amino-4,6-dinitrotoluene	1		11.68	11.58	11.78	1.6		11.8
	2		18.36	18.26	18.56	1.8		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0123-20A DL Lab Sample ID: 280-137736-4 DL

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/26/2020 18:21 Date Analyzed (2): 06/26/2020 23:14

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
HMX	1		6.71	6.56	6.86	62		25.7
	2		7.14	7.00	7.30	48		
RDX	1		7.79	7.64	7.94	48		14.1
	2		9.35	9.22	9.52	42		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0122-20A Lab Sample ID: 280-137736-5

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/24/2020 20:06 Date Analyzed (2): 06/26/2020 23:49

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
HMX	1		6.71	6.56	6.86	7.3		0.4
	2		7.14	7.00	7.30	7.3		
MNX	1		7.38	7.23	7.53	0.36		49.0
	2		7.90	7.77	8.07	0.59		
RDX	1		7.79	7.64	7.94	12		2.2
	2		9.35	9.22	9.52	12		
1,3,5-Trinitrobenzene	1		8.93	8.77	9.07	2.4		6.8
	2		19.12	19.00	19.30	2.6		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0096-20A Lab Sample ID: 280-137736-6

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/24/2020 20:29 Date Analyzed (2): 06/27/2020 00:24

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
HMX	1		6.72	6.56	6.86	9.7		7.3
	2		7.13	7.00	7.30	9.0		
MNX	1		7.38	7.23	7.53	1.6		4.5
	2		7.88	7.77	8.07	1.7		
RDX	1		7.79	7.64	7.94	34		2.6
	2		9.33	9.22	9.52	33		
1,3,5-Trinitrobenzene	1		8.93	8.77	9.07	13		3.5
	2		19.10	19.00	19.30	12		
2,4,6-Trinitrotoluene	1		11.21	11.13	11.33	0.96		27.3
	2		24.88	24.76	25.06	0.73		
4-Amino-2,6-dinitrotoluene	1		11.37	11.29	11.49	1.5		15.3
	2		17.42	17.32	17.62	1.8		
2-Amino-4,6-dinitrotoluene	1		11.66	11.58	11.78	1.1		15.0
	2		18.36	18.26	18.56	1.2		
2,4-Dinitrotoluene	1		12.00	11.92	12.12	0.047		82.2
	2		20.59	20.44	20.74	0.11		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0096-20A DL Lab Sample ID: 280-137736-6 DL

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/26/2020 18:44 Date Analyzed (2): 06/27/2020 00:59

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
HMX	1		6.72	6.56	6.86	9.7		27.3
	2		7.14	7.00	7.30	7.3		
RDX	1		7.79	7.64	7.94	36		4.2
	2		9.34	9.22	9.52	34		
1,3,5-Trinitrobenzene	1		8.94	8.78	9.08	13		1.3
	2		19.11	19.00	19.30	13		
4-Amino-2,6-dinitrotoluene	1		11.42	11.32	11.52	2.0		4.2
	2		17.48	17.32	17.62	2.1		
2-Amino-4,6-dinitrotoluene	1		11.71	11.62	11.82	1.0		48.6
	2		18.38	18.26	18.56	1.7		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0296-20A Lab Sample ID: 280-137736-7

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/24/2020 20:52 Date Analyzed (2): 06/27/2020 02:44

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
HMX	1		6.72	6.56	6.86	9.7		9.6
	2		7.13	7.00	7.30	8.8		
MNX	1		7.39	7.23	7.53	1.5		5.8
	2		7.89	7.77	8.07	1.6		
RDX	1		7.79	7.64	7.94	34		3.2
	2		9.34	9.22	9.52	33		
1,3,5-Trinitrobenzene	1		8.93	8.77	9.07	13		5.8
	2		19.10	19.00	19.30	12		
2,4,6-Trinitrotoluene	1		11.21	11.13	11.33	1.0		32.3
	2		24.86	24.76	25.06	0.76		
4-Amino-2,6-dinitrotoluene	1		11.37	11.29	11.49	1.6		4.8
	2		17.43	17.32	17.62	1.7		
2-Amino-4,6-dinitrotoluene	1		11.67	11.58	11.78	1.1		8.8
	2		18.35	18.26	18.56	1.2		
2,4-Dinitrotoluene	1		12.01	11.92	12.12	0.10		6.4
	2		20.57	20.44	20.74	0.11		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0296-20A DL Lab Sample ID: 280-137736-7 DL

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/26/2020 19:07 Date Analyzed (2): 06/27/2020 03:19

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
HMX	1		6.71	6.56	6.86	9.5		40.0
	2		7.14	7.00	7.30	6.4		
RDX	1		7.79	7.64	7.94	36		4.7
	2		9.35	9.22	9.52	34		
1,3,5-Trinitrobenzene	1		8.93	8.78	9.08	13		3.1
	2		19.12	19.00	19.30	13		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: PZ020-20A Lab Sample ID: 280-137736-10

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/25/2020 08:22 Date Analyzed (2): 06/27/2020 15:36

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
RDX	1		7.78	7.64	7.94	0.58		33.4
	2		9.34	9.22	9.52	0.42		
1,3,5-Trinitrobenzene	1		8.92	8.77	9.07	1.5		3.5
	2		19.13	19.00	19.30	1.4		
2,4,6-Trinitrotoluene	1		11.19	11.13	11.33	2.2		13.3
	2		24.89	24.76	25.06	1.9		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: PZ020-20A RE Lab Sample ID: 280-137736-10 RE

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 07/01/2020 02:46 Date Analyzed (2): 07/02/2020 02:26

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
RDX	1		7.80	7.63	7.93	0.51		26.8
	2		9.49	9.33	9.63	0.39		
1,3,5-Trinitrobenzene	1		8.95	8.78	9.08	1.5		6.1
	2		19.29	19.12	19.42	1.6		
2,4,6-Trinitrotoluene	1		11.29	11.15	11.35	2.3		15.6
	2		25.05	24.88	25.18	1.9		
4-Amino-2,6-dinitrotoluene	1		11.47	11.32	11.52	1.8		0.9
	2		17.65	17.48	17.78	1.8		
2-Amino-4,6-dinitrotoluene	1		11.76	11.61	11.81	1.7		8.4
	2		18.61	18.44	18.74	1.6		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0087-20A Lab Sample ID: 280-137736-11

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/25/2020 08:45 Date Analyzed (2): 06/27/2020 16:10

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
RDX	1		7.78	7.64	7.94	0.15		5.7
	2		9.33	9.22	9.52	0.14		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0087-20A RE Lab Sample ID: 280-137736-11 RE

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 07/01/2020 03:09 Date Analyzed (2): 07/02/2020 03:01

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
HMX	1		6.71	6.56	6.86	0.39		50.5
	2		7.25	7.09	7.39	0.24		
RDX	1		7.80	7.63	7.93	0.16		17.4
	2		9.49	9.33	9.63	0.13		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0088-20A Lab Sample ID: 280-137736-12

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/25/2020 09:08 Date Analyzed (2): 06/27/2020 16:45

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
1,3,5-Trinitrobenzene	1		8.92	8.77	9.07	4.7		5.0
	2		19.13	19.00	19.30	4.5		
2,4,6-Trinitrotoluene	1		11.20	11.13	11.33	0.63		41.8
	2		24.92	24.76	25.06	0.41		
4-Amino-2,6-dinitrotoluene	1		11.36	11.29	11.49	0.44		21.6
	2		17.44	17.32	17.62	0.35		
2-Amino-4,6-dinitrotoluene	1		11.65	11.58	11.78	0.44		25.6
	2		18.40	18.26	18.56	0.57		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0088-20A RE Lab Sample ID: 280-137736-12 RE

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 07/01/2020 03:32 Date Analyzed (2): 07/02/2020 03:36

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
1,3,5-Trinitrobenzene	1		8.95	8.78	9.08	5.5		4.1
	2		19.27	19.12	19.42	5.2		
2,4,6-Trinitrotoluene	1		11.30	11.15	11.35	0.72		27.9
	2		25.03	24.88	25.18	0.54		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0089-20A Lab Sample ID: 280-137736-13

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/25/2020 09:31 Date Analyzed (2): 06/27/2020 17:20

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
1,3,5-Trinitrobenzene	1		8.92	8.77	9.07	2.6		6.4
	2		19.13	19.00	19.30	2.4		
2,4,6-Trinitrotoluene	1		11.19	11.13	11.33	1.7		17.8
	2		24.91	24.76	25.06	1.4		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0089-20A RE Lab Sample ID: 280-137736-13 RE

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 07/01/2020 03:54 Date Analyzed (2): 07/02/2020 04:11

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
1,3,5-Trinitrobenzene	1		8.94	8.78	9.08	1.8		3.5
	2		19.25	19.12	19.42	1.8		
2,4,6-Trinitrotoluene	1		11.29	11.15	11.35	1.6		16.3
	2		25.00	24.88	25.18	1.4		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0077-20A Lab Sample ID: 280-137736-14

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/25/2020 00:19 Date Analyzed (2): 06/27/2020 04:29

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
RDX	1		7.78	7.64	7.94	0.46		36.1
	2		9.33	9.22	9.52	0.32		
1,3,5-Trinitrobenzene	1		8.93	8.77	9.07	1.9		6.0
	2		19.10	19.00	19.30	1.8		
2,4,6-Trinitrotoluene	1		11.20	11.13	11.33	3.3		13.0
	2		24.87	24.76	25.06	2.9		
4-Amino-2,6-dinitrotoluene	1		11.36	11.29	11.49	1.1		3.7
	2		17.43	17.32	17.62	1.1		
2-Amino-4,6-dinitrotoluene	1		11.66	11.58	11.78	1.2		6.1
	2		18.36	18.26	18.56	1.3		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0093-20A Lab Sample ID: 280-137736-16

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/26/2020 19:30 Date Analyzed (2): 06/27/2020 05:04

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
1,3,5-Trinitrobenzene	1		8.94	8.78	9.08	0.45		0.4
	2		19.10	19.00	19.30	0.45		
2-Amino-4,6-dinitrotoluene	1		11.70	11.62	11.82	1.8		109.9
	2		18.33	18.26	18.56	0.51		

FORM X
IDENTIFICATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0086-20A Lab Sample ID: 280-137736-17

Instrument ID (1): CHHPLC_X3 Instrument ID (2): CHHPLC_G2_LUNA

Date Analyzed (1): 06/25/2020 01:28 Date Analyzed (2): 06/27/2020 05:39

GC Column (1): UltraCarb5uOD ID: 4.6(mm) GC Column (2): Luna-phenylhe ID: 4.6(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
RDX	1		7.78	7.64	7.94	0.21		3.8
	2		9.35	9.22	9.52	0.21		
1,3,5-Trinitrobenzene	1		8.92	8.77	9.07	9.4		2.7
	2		19.11	19.00	19.30	9.2		
2,4,6-Trinitrotoluene	1		11.22	11.13	11.33	3.6		9.3
	2		24.87	24.76	25.06	3.3		
4-Amino-2,6-dinitrotoluene	1		11.39	11.29	11.49	1.1		2.2
	2		17.43	17.32	17.62	1.1		
2-Amino-4,6-dinitrotoluene	1		11.68	11.58	11.78	1.6		21.9
	2		18.35	18.26	18.56	2.0		

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: WC-Q3-JUNE20 Lab Sample ID: 280-137736-1

Matrix: Water Lab File ID: 06240014.D

Analysis Method: 8330A Date Collected: 06/16/2020 17:30

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 475.3(mL) Date Analyzed: 06/24/2020 18:57

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499988 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.21	U	0.22	0.21	0.088
99-65-0	1,3-Dinitrobenzene	0.11	U M	0.12	0.11	0.039
118-96-7	2,4,6-Trinitrotoluene	0.11	U M	0.12	0.11	0.047
121-14-2	2,4-Dinitrotoluene	0.084	U M	0.11	0.084	0.029
606-20-2	2,6-Dinitrotoluene	0.084	U	0.11	0.084	0.042
35572-78-2	2-Amino-4,6-dinitrotoluene	0.11	U M	0.12	0.11	0.053
88-72-2	2-Nitrotoluene	0.21	U M	0.22	0.21	0.090
99-08-1	3-Nitrotoluene	0.42	U	0.42	0.42	0.21
19406-51-0	4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.061
99-99-0	4-Nitrotoluene	0.42	U M	0.43	0.42	0.11
2691-41-0	HMX	0.21	U	0.22	0.21	0.092
5755-27-1	MNX	0.42	U M	2.1	0.42	0.16
98-95-3	Nitrobenzene	0.21	U M	0.22	0.21	0.096
479-45-8	Tetryl	0.11	U	0.12	0.11	0.033

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	115	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240014.D
Lims ID: 280-137736-A-1-A
Client ID: WC-Q3-JUNE20
Sample Type: Client
Inject. Date: 24-Jun-2020 18:57:03 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-1-A
Misc. Info.: 280-0092716-014
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:07 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 24-Jun-2020 19:57:43

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 HMX	1		6.712			ND	
	6 MNX	1		7.384			ND	U
	7 RDX	1	7.755	7.785	-0.030	5314	0.0456	M
$	9 1,2-Dinitrobenzene	1	8.741	8.738	0.003	31830	0.2303	M
	10 1,3,5-Trinitrobenzene	1		8.918			ND	
	11 1,3-Dinitrobenzene	1		9.565			ND	U
	12 Nitrobenzene	1		9.945			ND	U
	14 Tetryl	1		10.252			ND	
	16 2,4,6-Trinitrotoluene	1		11.225			ND	U
	17 4-Amino-2,6-dinitrotoluene	1		11.385			ND	
	18 2-Amino-4,6-dinitrotoluene	1		11.678			ND	U
	19 2,6-Dinitrotoluene	1		11.818			ND	
	20 2,4-Dinitrotoluene	1		12.018			ND	U
	21 o-Nitrotoluene	1		12.845			ND	U
	22 p-Nitrotoluene	1		13.272			ND	U
	23 m-Nitrotoluene	1		13.865			ND	

QC Flag Legend

Review Flags
M - Manually Integrated
U - Marked Undetected

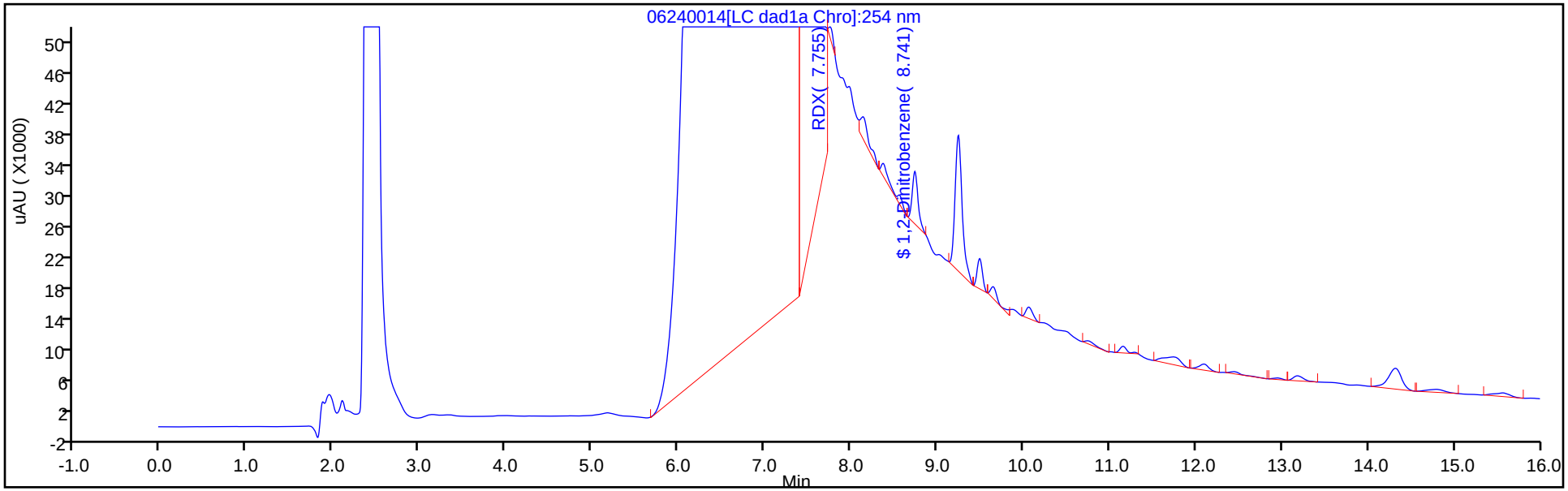
Report Date: 25-Jun-2020 21:10:11 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

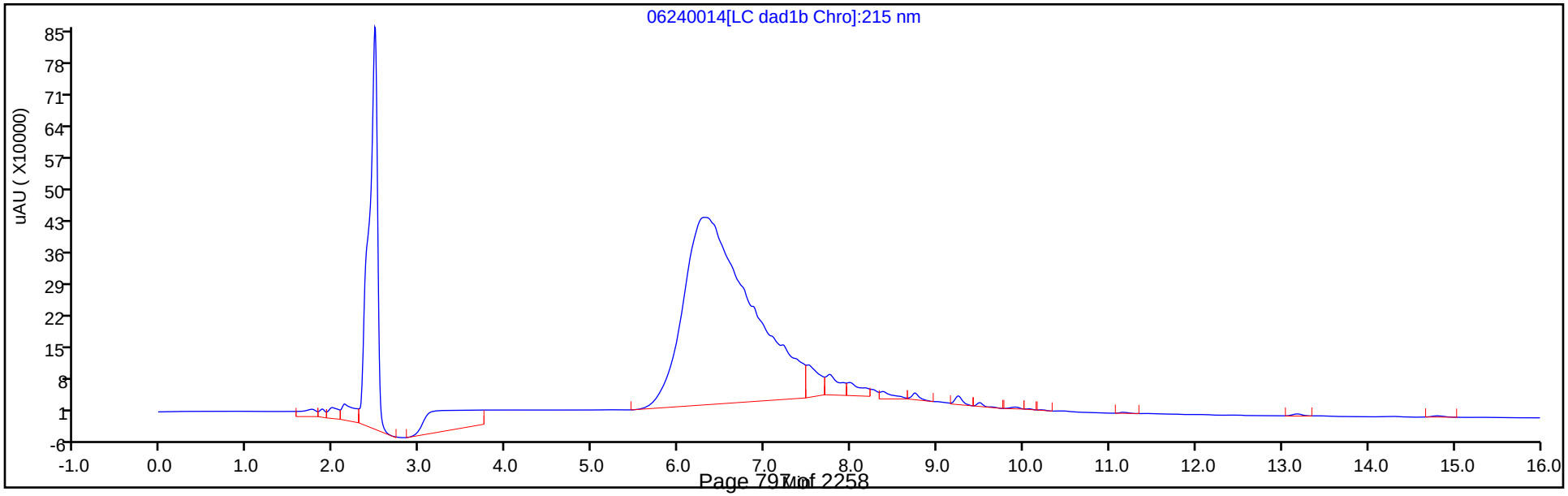
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240014.d

Injection Date:	24-Jun-2020 18:57:03	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-A-1-A	Lab Sample ID:	280-137736-1	Worklist Smp#:	14
Client ID:	WC-Q3-JUNE20				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240014.D				
Lims ID:	280-137736-A-1-A				
Client ID:	WC-Q3-JUNE20				
Sample Type:	Client				
Inject. Date:	24-Jun-2020 18:57:03	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-1-A				
Misc. Info.:	280-0092716-014				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	25-Jun-2020 21:10:07	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1063				
First Level Reviewer: zhangji		Date:	24-Jun-2020 19:57:43		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.2303	115.15

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

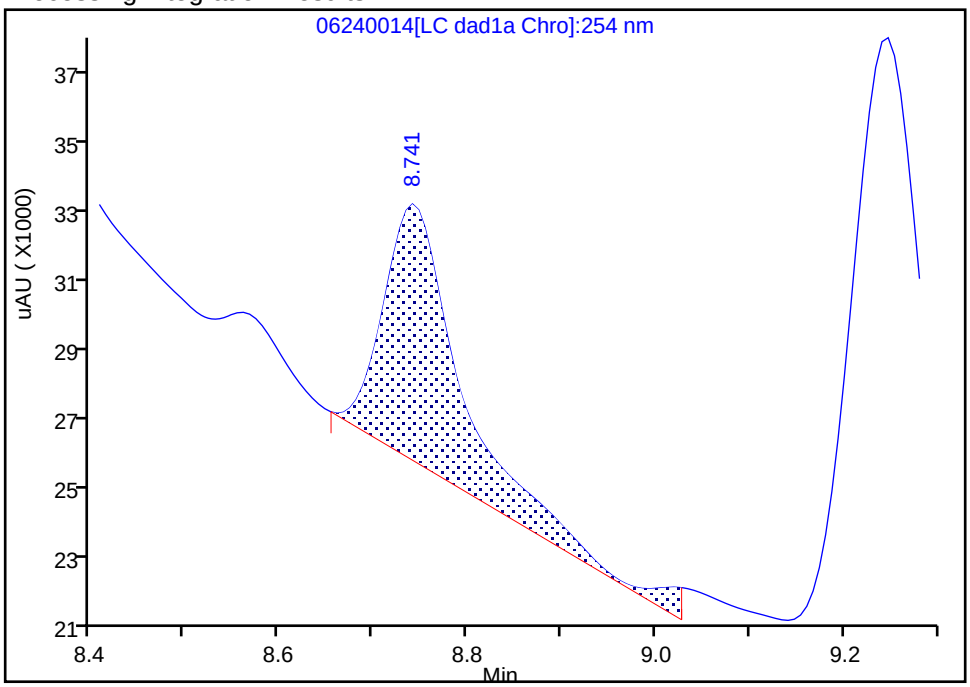
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240014.d				
Injection Date:	24-Jun-2020 18:57:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-1-A	Lab Sample ID:	280-137736-1		
Client ID:	WC-Q3-JUNE20				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

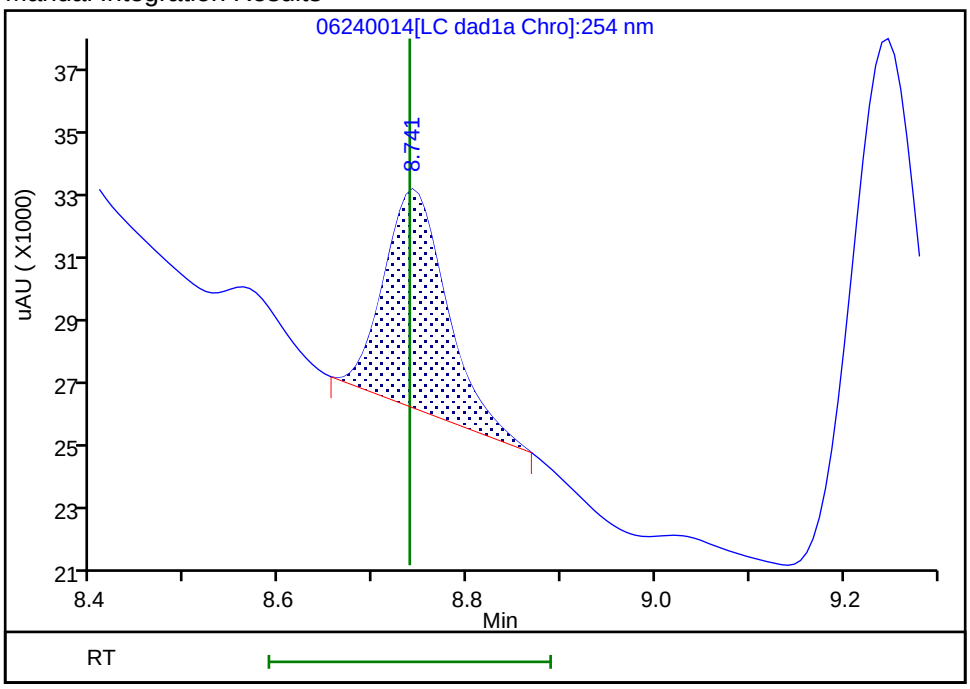
Processing Integration Results

RT: 8.74
Area: 42478
Amount: 0.307339
Amount Units: ug/mL



Manual Integration Results

RT: 8.74
Area: 31830
Amount: 0.230298
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 19:57:29

Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

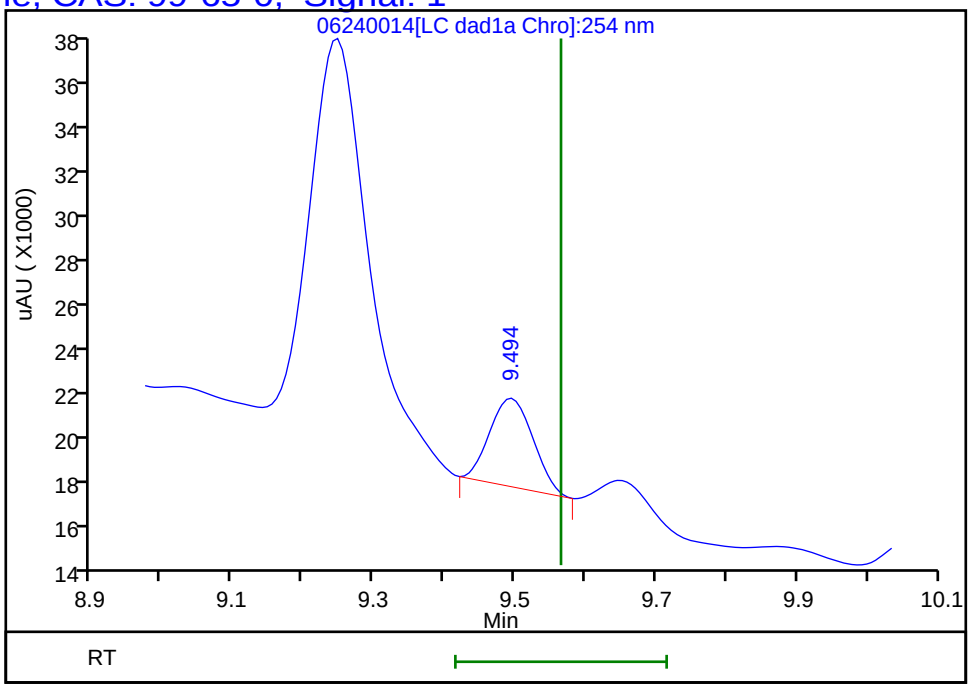
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240014.d

Injection Date:	24-Jun-2020 18:57:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-1-A	Lab Sample ID:	280-137736-1		
Client ID:	WC-Q3-JUNE20				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

11 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.49
Response: 16715
Amount: 0.054502



Reviewer: zhangji, 24-Jun-2020 19:57:43
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

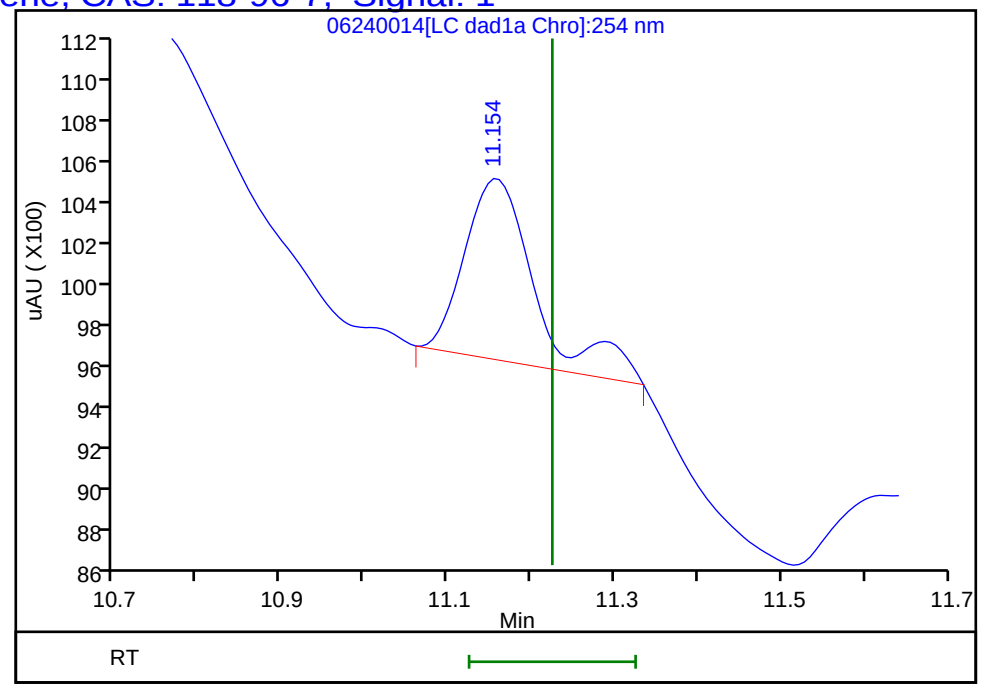
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240014.d				
Injection Date:	24-Jun-2020 18:57:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-1-A	Lab Sample ID:	280-137736-1		
Client ID:	WC-Q3-JUNE20				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

16 2,4,6-Trinitrotoluene, CAS: 118-96-7, Signal: 1

RT: 11.15
Response: 5061
Amount: 0.024805



Reviewer: zhangji, 24-Jun-2020 19:57:43
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

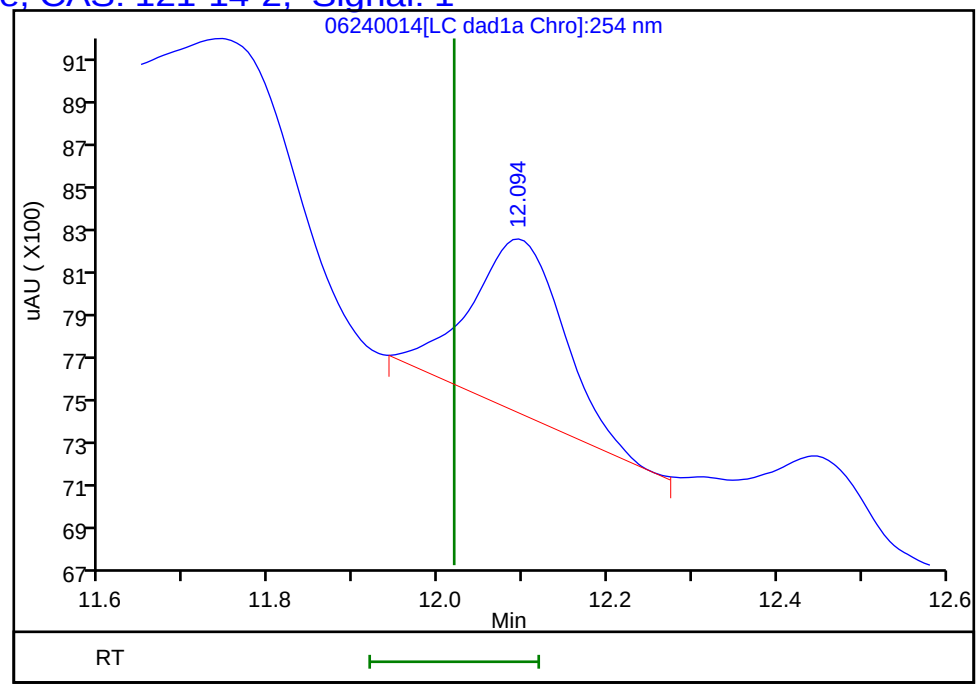
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240014.d

Injection Date:	24-Jun-2020 18:57:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-1-A	Lab Sample ID:	280-137736-1		
Client ID:	WC-Q3-JUNE20				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

20 2,4-Dinitrotoluene, CAS: 121-14-2, Signal: 1

RT: 12.09
Response: 6084
Amount: 0.020041



Reviewer: zhangji, 24-Jun-2020 19:57:43
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

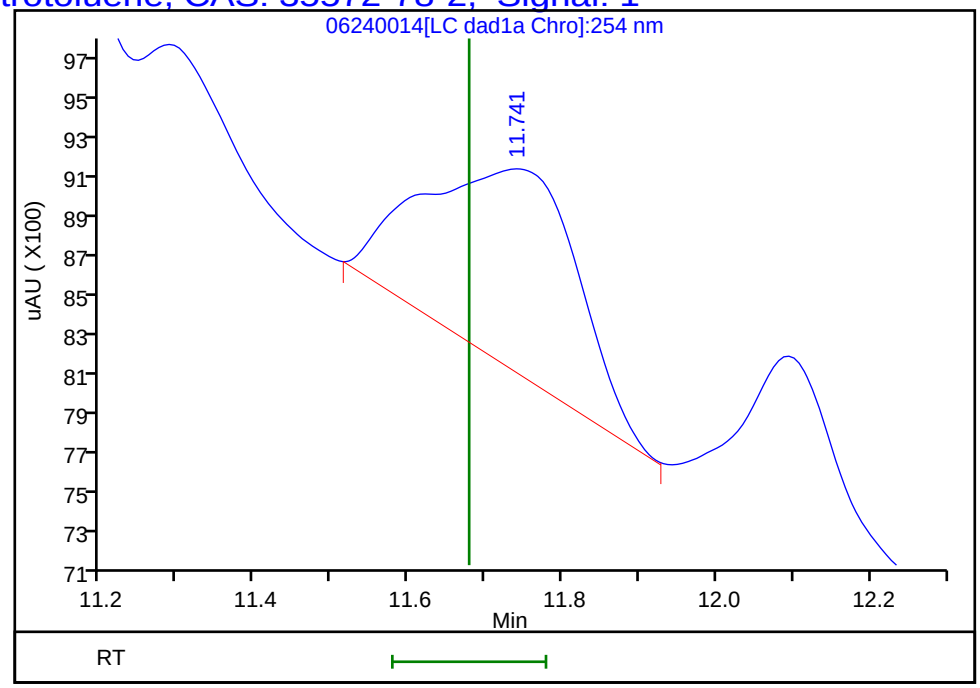
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240014.d				
Injection Date:	24-Jun-2020 18:57:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-1-A	Lab Sample ID:	280-137736-1		
Client ID:	WC-Q3-JUNE20				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2, Signal: 1

RT: 11.74
Response: 13537
Amount: 0.066745



Reviewer: zhangji, 24-Jun-2020 19:57:43
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

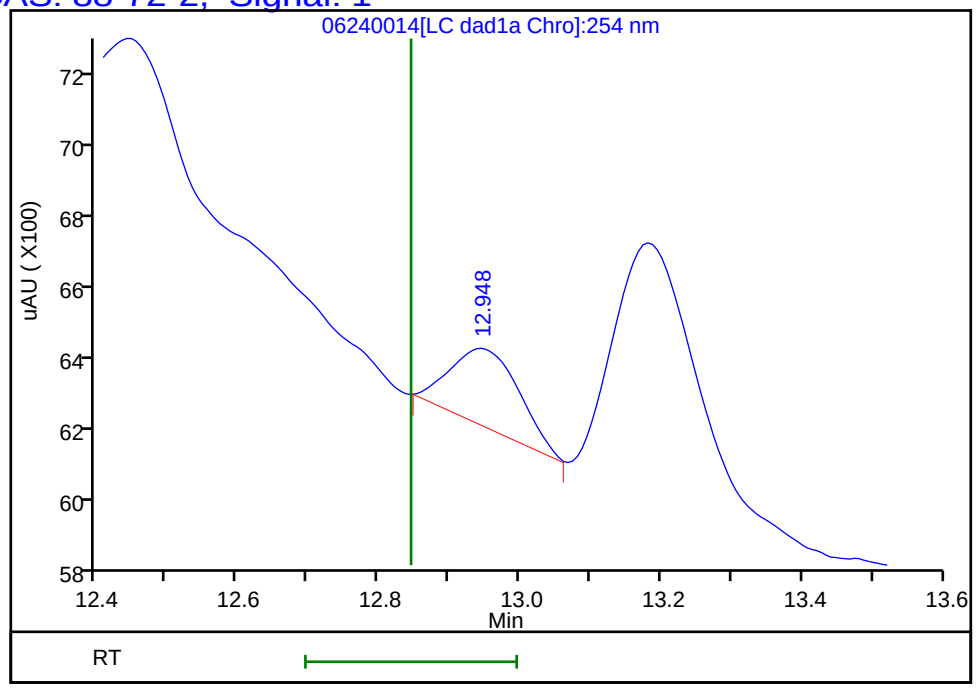
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240014.d				
Injection Date:	24-Jun-2020 18:57:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-1-A	Lab Sample ID:	280-137736-1		
Client ID:	WC-Q3-JUNE20				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

21 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 12.95
Response: 1391
Amount: 0.010300



Reviewer: zhangji, 24-Jun-2020 19:57:43
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

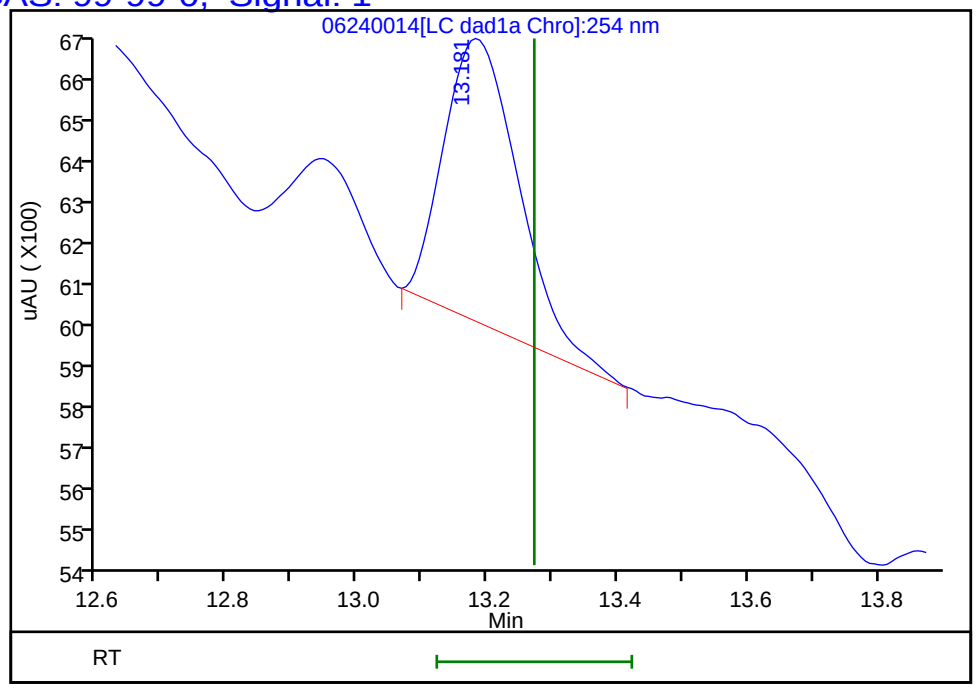
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240014.d
Injection Date: 24-Jun-2020 18:57:03 Instrument ID: CHHPLC_X3
Lims ID: 280-137736-A-1-A Lab Sample ID: 280-137736-1
Client ID: WC-Q3-JUNE20
Operator ID: JZ ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

22 p-Nitrotoluene, CAS: 99-99-0, Signal: 1

RT: 13.18
Response: 5269
Amount: 0.046626



Reviewer: zhangji, 24-Jun-2020 19:57:43
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

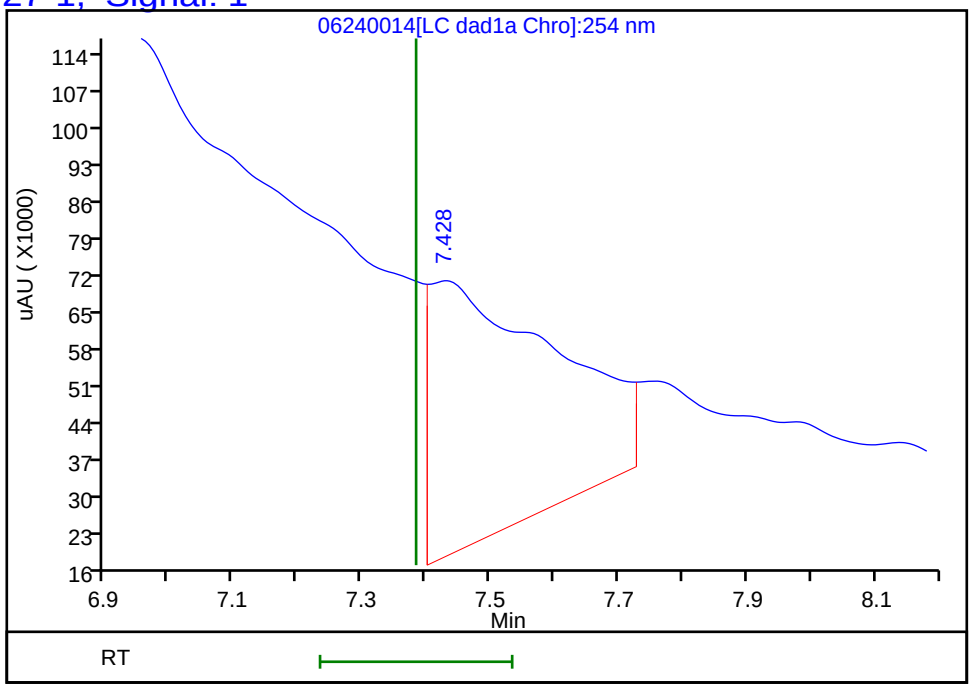
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240014.d

Injection Date:	24-Jun-2020 18:57:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-1-A	Lab Sample ID:	280-137736-1		
Client ID:	WC-Q3-JUNE20				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.43
Response: 667914
Amount: 4.212794



Reviewer: zhangji, 24-Jun-2020 19:57:43
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

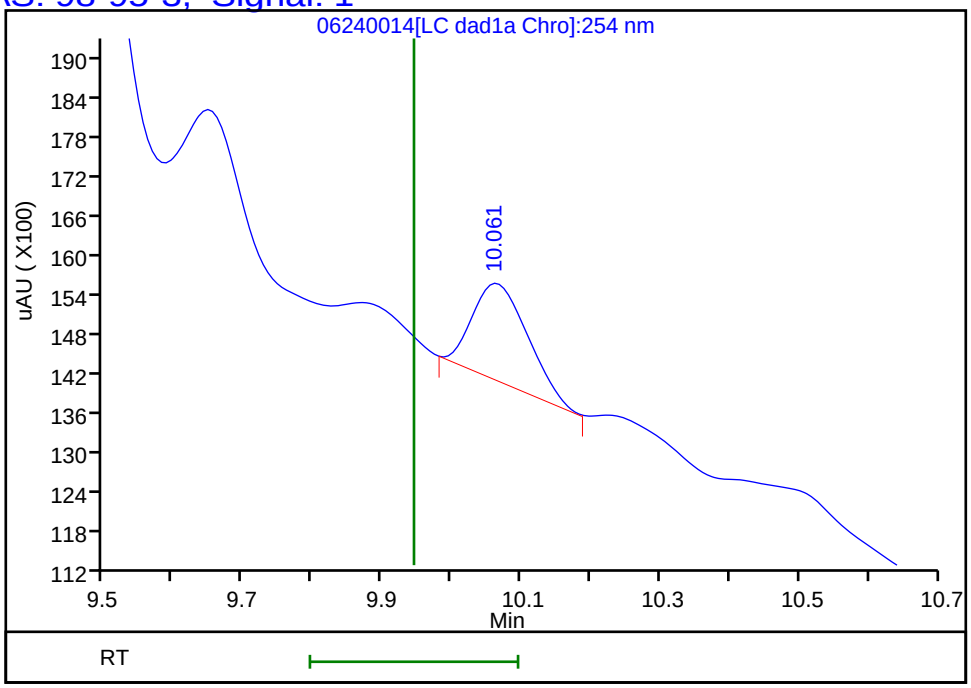
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240014.d				
Injection Date:	24-Jun-2020 18:57:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-1-A	Lab Sample ID:	280-137736-1		
Client ID:	WC-Q3-JUNE20				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

12 Nitrobenzene, CAS: 98-95-3, Signal: 1

RT: 10.06
Response: 8206
Amount: 0.040948



Reviewer: zhangji, 24-Jun-2020 19:57:43
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

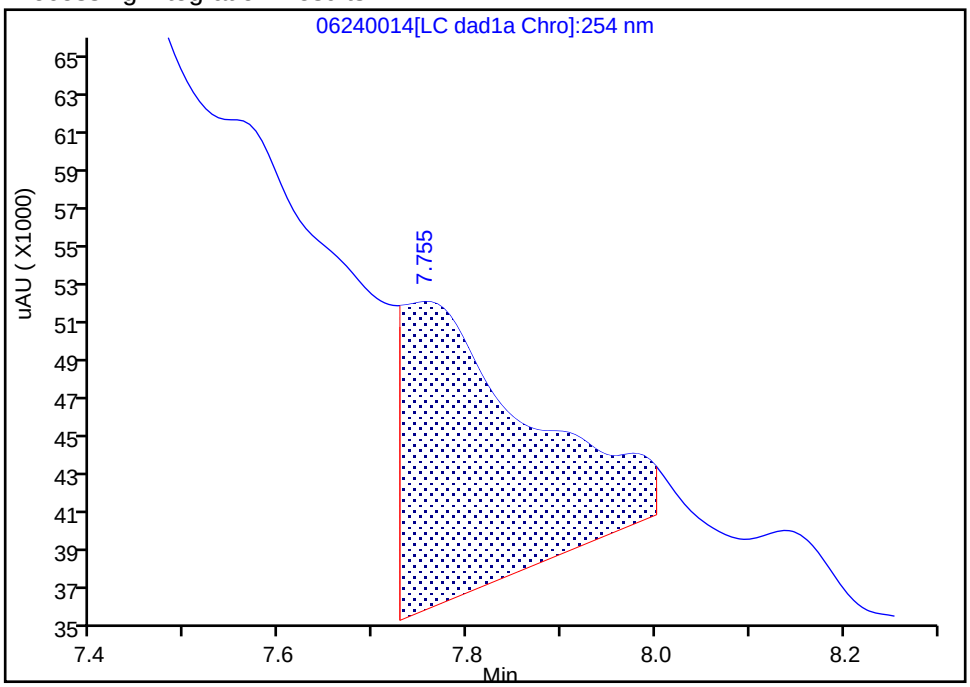
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240014.d				
Injection Date:	24-Jun-2020 18:57:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-1-A	Lab Sample ID:	280-137736-1		
Client ID:	WC-Q3-JUNE20				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

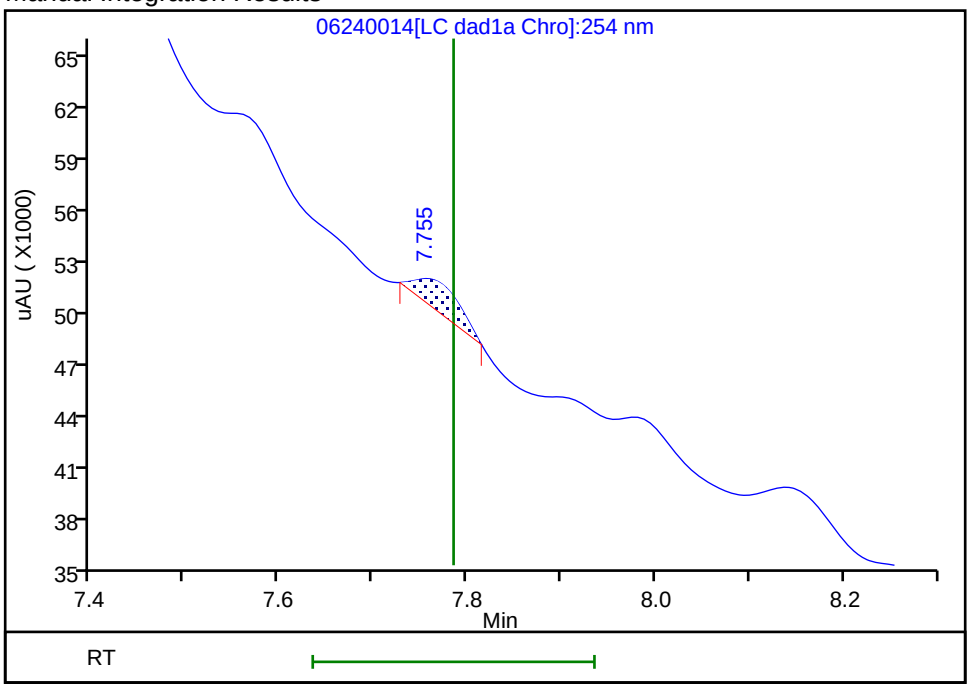
Processing Integration Results

RT: 7.75
Area: 141294
Amount: 1.211648
Amount Units: ug/mL



Manual Integration Results

RT: 7.75
Area: 5314
Amount: 0.045570
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 19:57:19

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: WC-Q3-JUNE20 Lab Sample ID: 280-137736-1

Matrix: Water Lab File ID: 06260012.D

Analysis Method: 8330A Date Collected: 06/16/2020 17:30

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 475.3(mL) Date Analyzed: 06/26/2020 21:29

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

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

Analysis Batch No.: 500326 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
121-82-4	RDX	0.21	U Q	0.22	0.21	0.054

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	169	*M Q*	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260012.D
Lims ID: 280-137736-A-1-A
Client ID: WC-Q3-JUNE20
Sample Type: Client
Inject. Date: 26-Jun-2020 21:29:47 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-1-A
Misc. Info.: 280-0092796-012
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 15:27:55 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 27-Jun-2020 11:54:28

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
	6 HMX	1		7.154			ND	
	7 MNX	1		7.919			ND	
	8 RDX	1		9.367			ND	
	9 Nitrobenzene	1		12.274			ND	
$	10 1,2-Dinitrobenzene	1	13.245	13.281	-0.036	95759	0.3388	M
	12 1,3-Dinitrobenzene	1		15.814			ND	
	14 o-Nitrotoluene	1	16.705	16.754	-0.049	5996	0.0220	M
	15 p-Nitrotoluene	1	16.992	17.034	-0.042	3434	0.0143	M
	16 4-Amino-2,6-dinitrotoluene	1	17.458	17.474	-0.016	8039	0.0233	M
	17 m-Nitrotoluene	1		17.967			ND	MU
	18 2-Amino-4,6-dinitrotoluene	1	18.338	18.407	-0.069	9147	0.0197	M
	19 1,3,5-Trinitrobenzene	1		19.147			ND	
	20 2,6-Dinitrotoluene	1		20.074			ND	
	21 2,4-Dinitrotoluene	1		20.587			ND	
	22 Tetryl	1		23.887			ND	
	23 2,4,6-Trinitrotoluene	1		24.907			ND	

QC Flag Legend

Review Flags
M - Manually Integrated
U - Marked Undetected

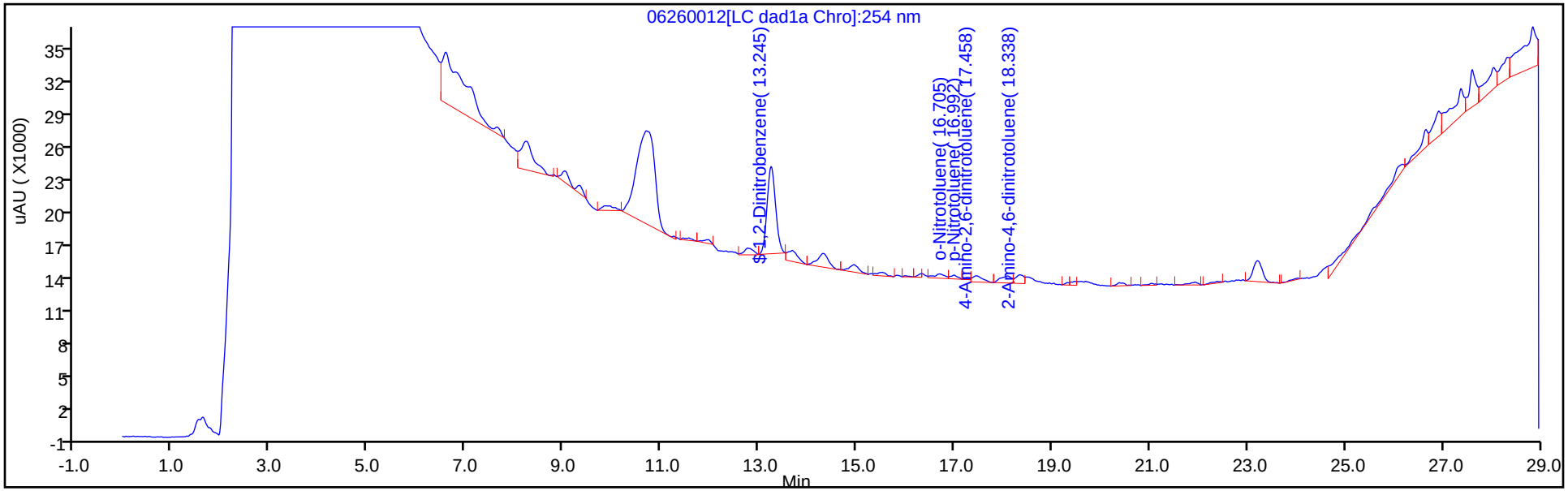
Report Date: 27-Jun-2020 15:27:57 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

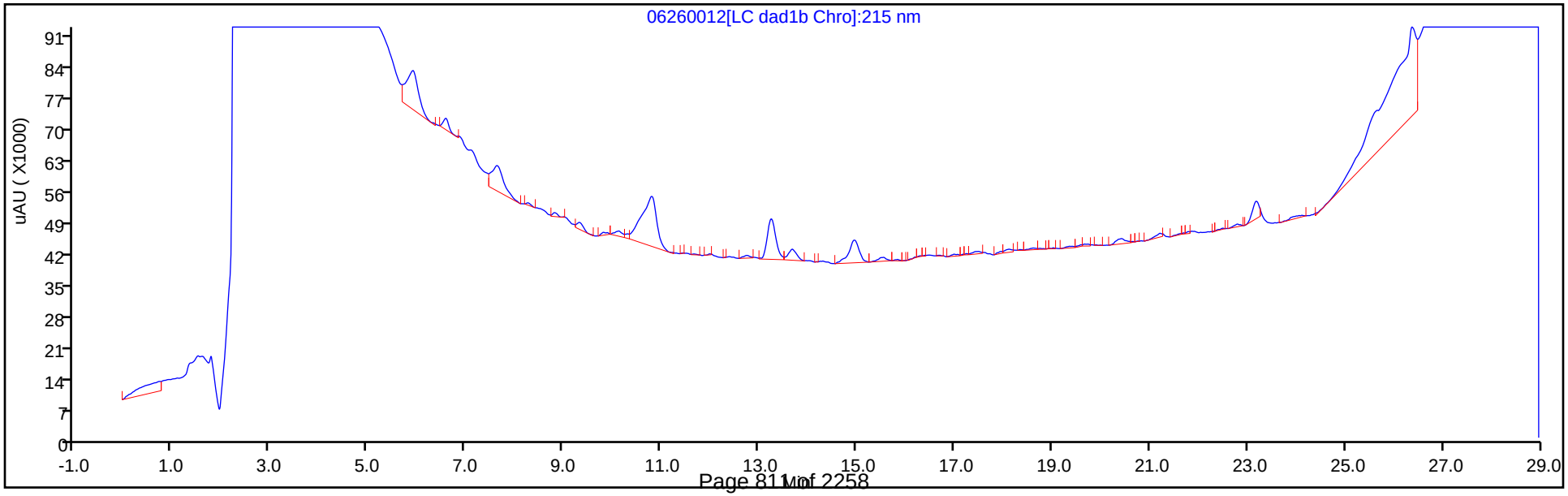
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260012.d

Injection Date:	26-Jun-2020 21:29:47	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137736-A-1-A	Lab Sample ID:	280-137736-1	Worklist Smp#:	12
Client ID:	WC-Q3-JUNE20				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260012.D				
Lims ID:	280-137736-A-1-A				
Client ID:	WC-Q3-JUNE20				
Sample Type:	Client				
Inject. Date:	26-Jun-2020 21:29:47	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-1-A				
Misc. Info.:	280-0092796-012				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 15:27:55	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1036				
First Level Reviewer: zhangji		Date:	27-Jun-2020 11:54:28		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.3388	169.39

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

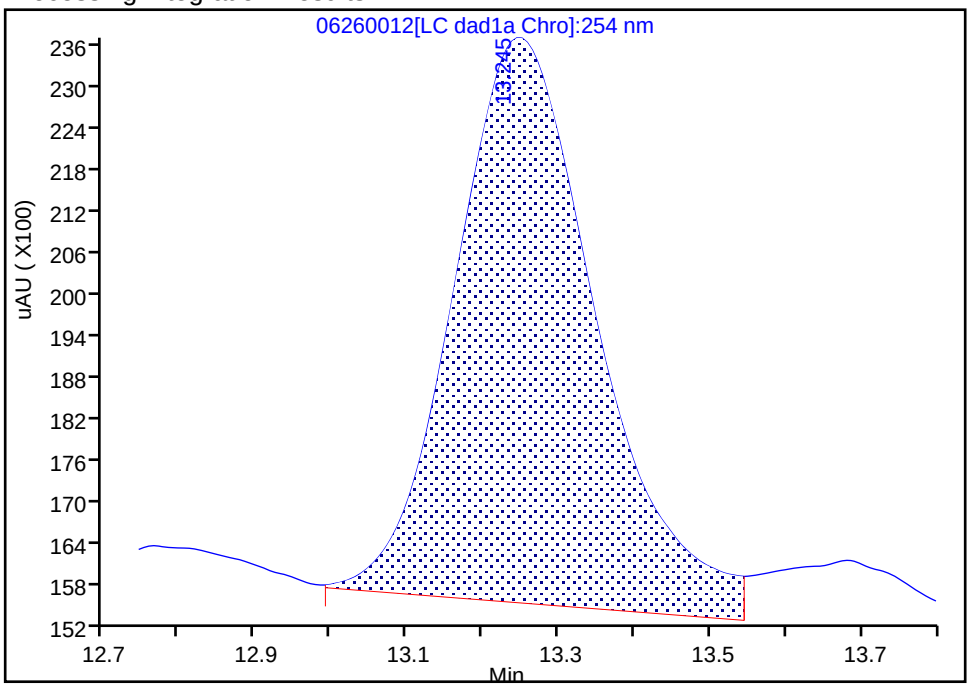
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260012.d				
Injection Date:	26-Jun-2020 21:29:47	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-1-A	Lab Sample ID:	280-137736-1		
Client ID:	WC-Q3-JUNE20				
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

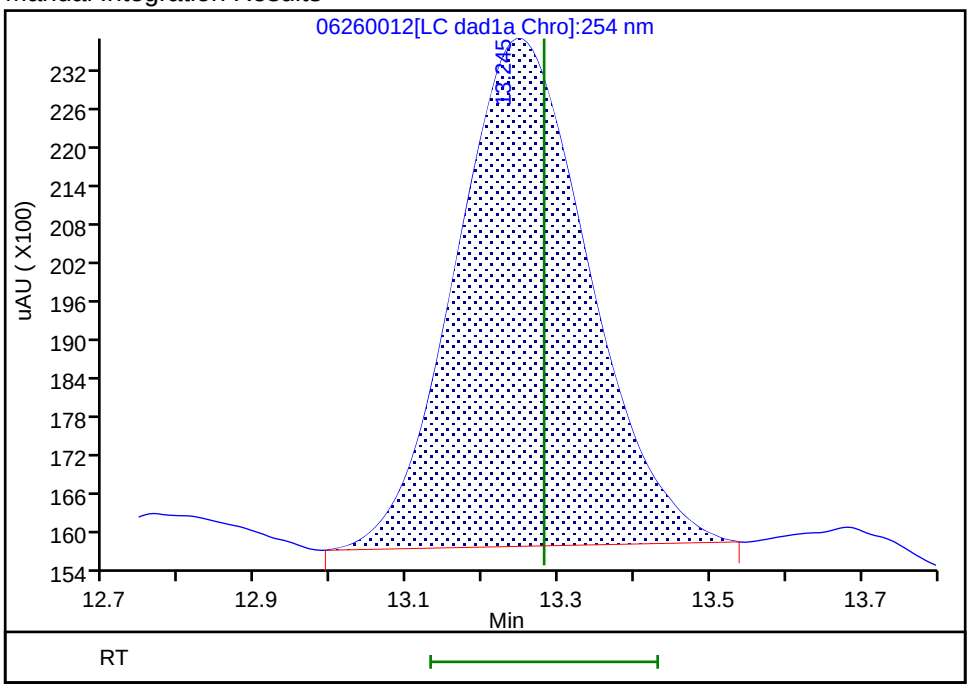
Processing Integration Results

RT: 13.24
Area: 107072
Amount: 0.379590
Amount Units: ug/ml



Manual Integration Results

RT: 13.24
Area: 95759
Amount: 0.338782
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:53:40

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

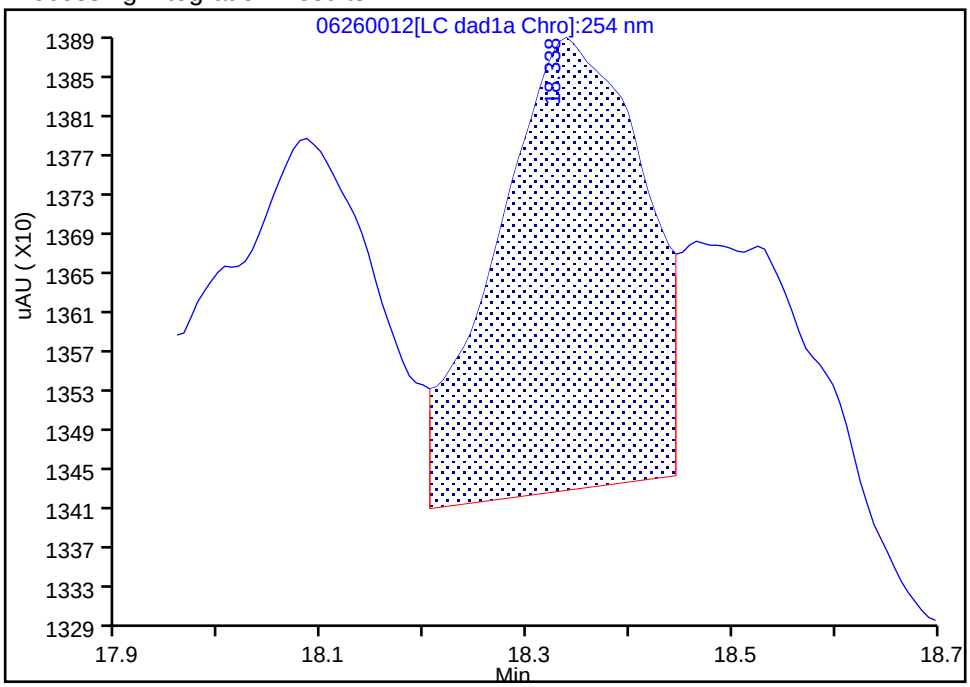
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260012.d				
Injection Date:	26-Jun-2020 21:29:47	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-1-A	Lab Sample ID:	280-137736-1		
Client ID:	WC-Q3-JUNE20				
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

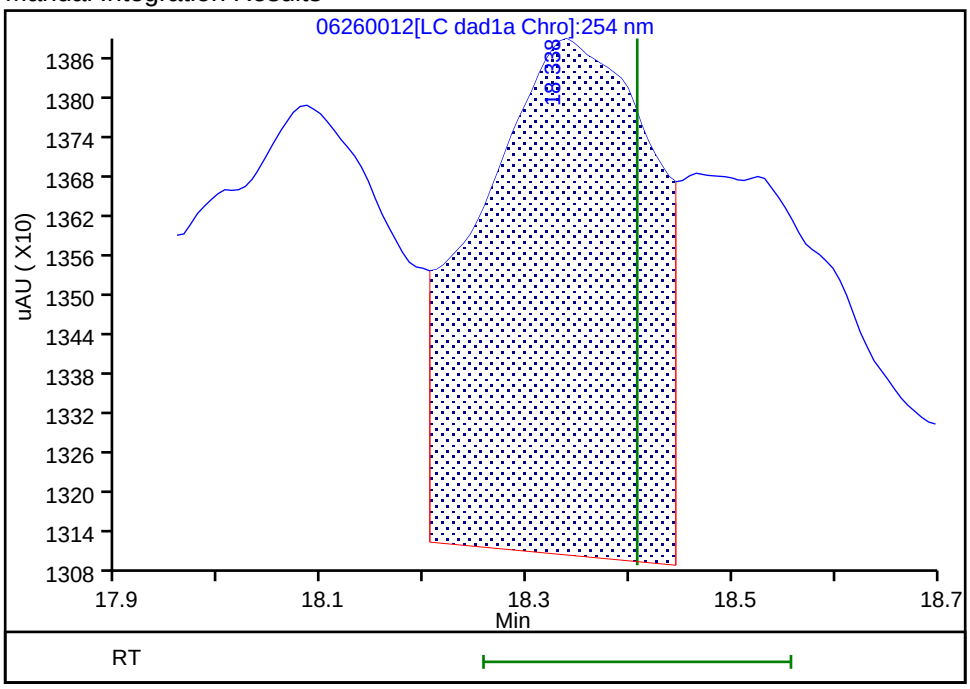
Processing Integration Results

RT: 18.34
Area: 4467
Amount: 0.009602
Amount Units: ug/ml



Manual Integration Results

RT: 18.34
Area: 9147
Amount: 0.019662
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:54:12

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

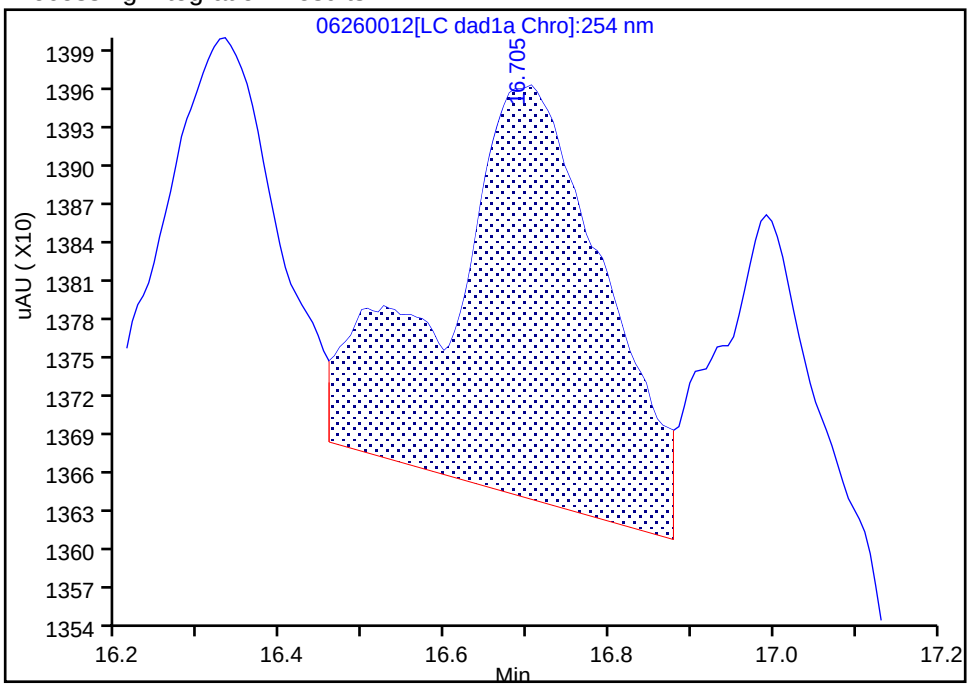
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260012.d				
Injection Date:	26-Jun-2020 21:29:47	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-1-A	Lab Sample ID:	280-137736-1		
Client ID:	WC-Q3-JUNE20				
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

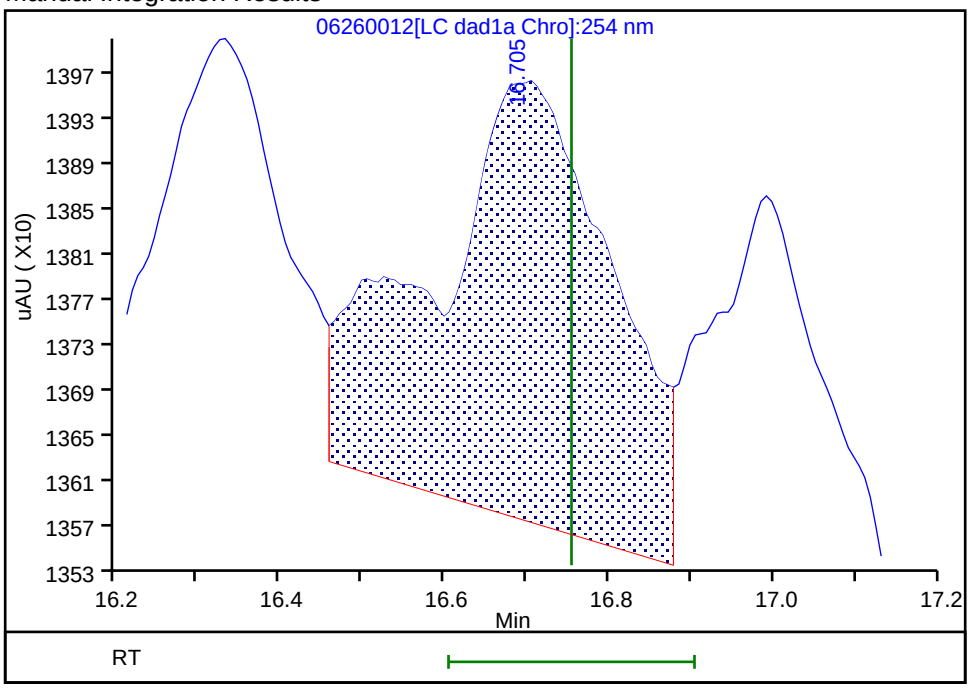
Processing Integration Results

RT: 16.70
Area: 4396
Amount: 0.016105
Amount Units: ug/ml



Manual Integration Results

RT: 16.70
Area: 5996
Amount: 0.021966
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:54:19

Audit Action: Assigned New Baseline Audit Reason: Baseline

User Disabled Compound Report

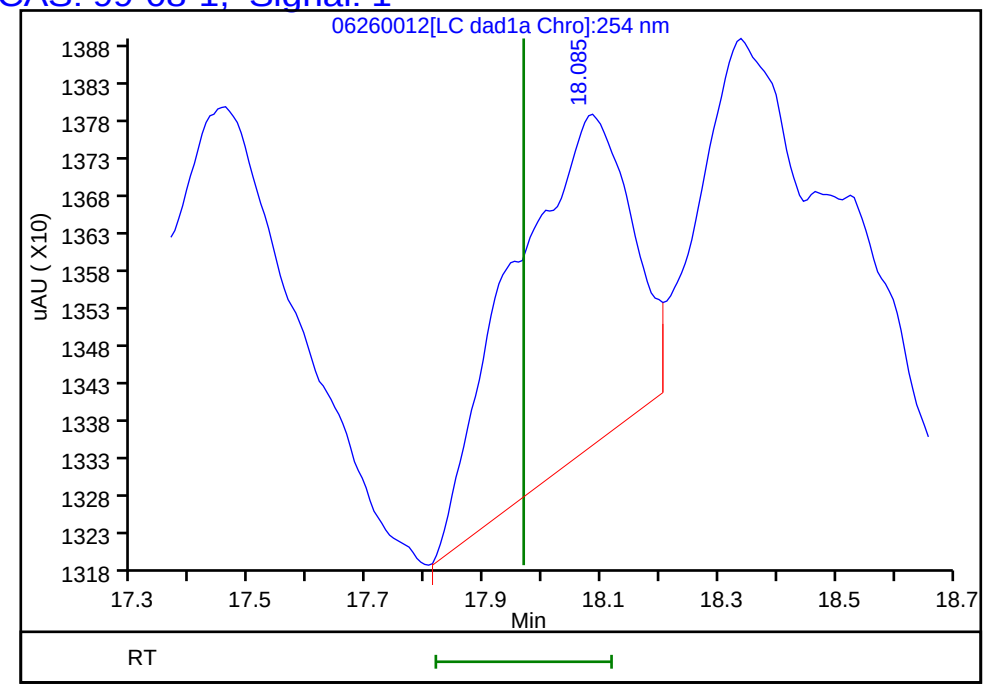
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260012.d

Injection Date:	26-Jun-2020 21:29:47	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-1-A	Lab Sample ID:	280-137736-1		
Client ID:	WC-Q3-JUNE20				
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 18.08
Response: 6460
Amount: 0.021654



Reviewer: zhangji, 27-Jun-2020 11:54:28
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

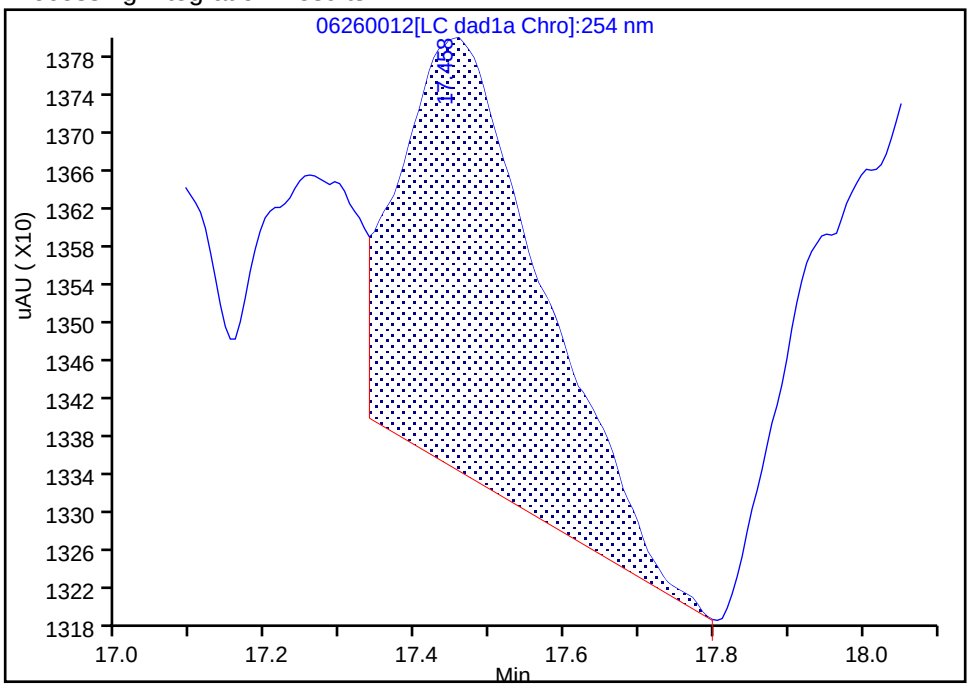
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260012.d				
Injection Date:	26-Jun-2020 21:29:47	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-1-A	Lab Sample ID:	280-137736-1		
Client ID:	WC-Q3-JUNE20				
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

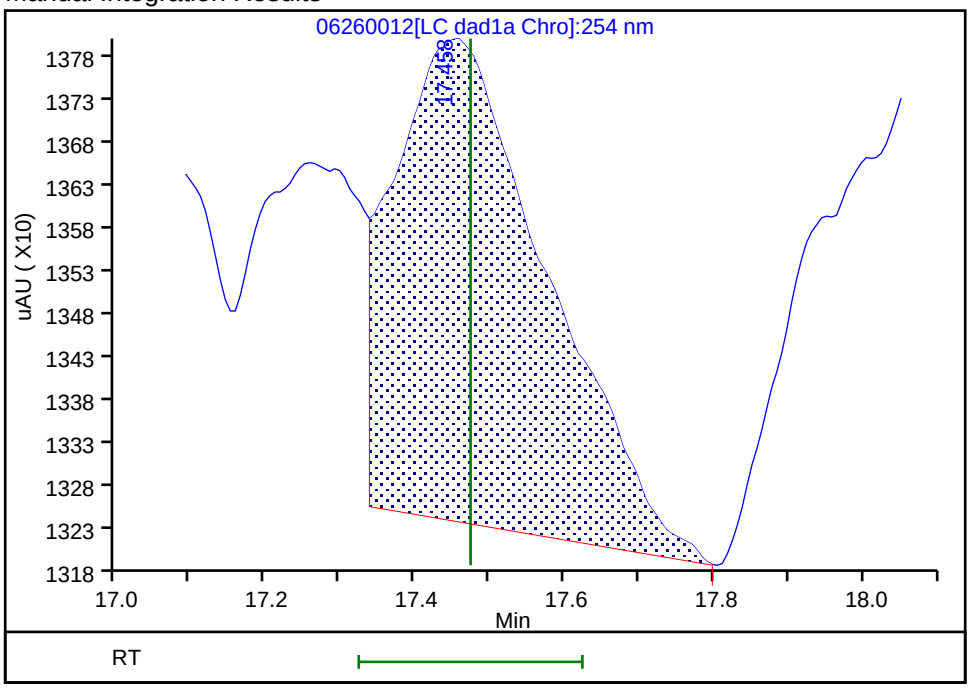
Processing Integration Results

RT: 17.46
Area: 6052
Amount: 0.017530
Amount Units: ug/ml



Manual Integration Results

RT: 17.46
Area: 8039
Amount: 0.023286
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:54:12

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

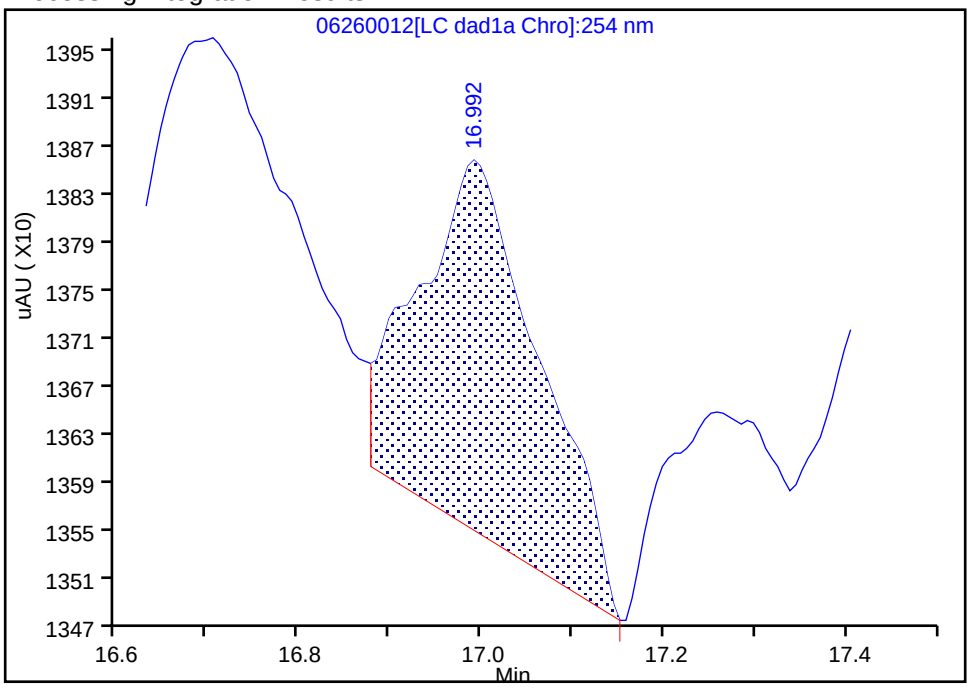
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260012.d				
Injection Date:	26-Jun-2020 21:29:47	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-1-A	Lab Sample ID:	280-137736-1		
Client ID:	WC-Q3-JUNE20				
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

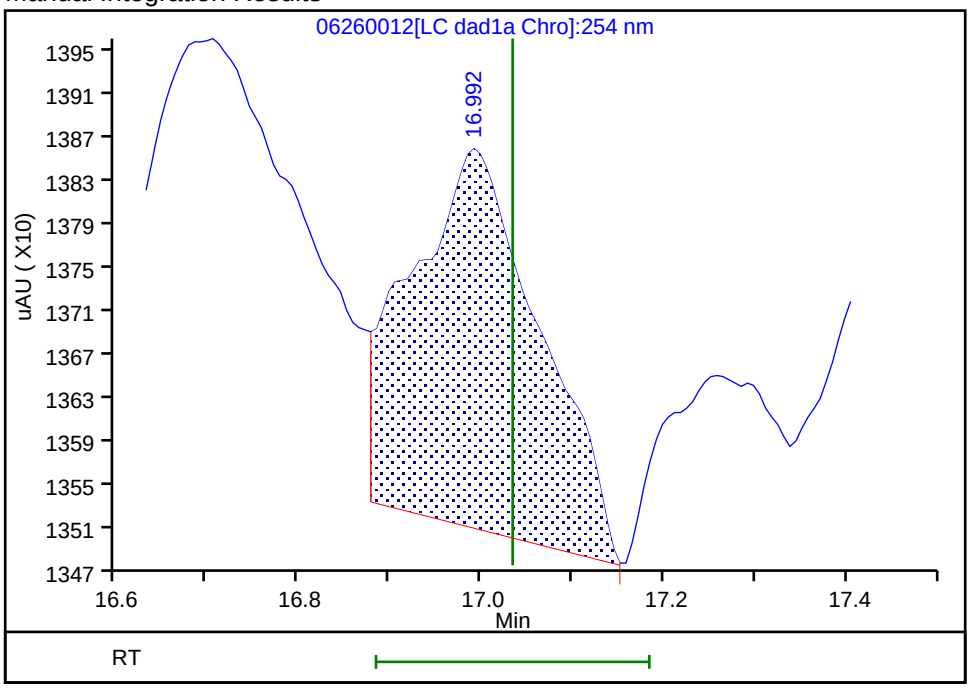
Processing Integration Results

RT: 16.99
Area: 2835
Amount: 0.011769
Amount Units: ug/ml



Manual Integration Results

RT: 16.99
Area: 3434
Amount: 0.014256
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:54:19

Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0091-20A Lab Sample ID: 280-137736-3

Matrix: Water Lab File ID: 06240015.D

Analysis Method: 8330A Date Collected: 06/16/2020 09:35

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 472.2(mL) Date Analyzed: 06/24/2020 19:20

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499988 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.21	U	0.22	0.21	0.089
99-65-0	1,3-Dinitrobenzene	0.11	U	0.12	0.11	0.039
118-96-7	2,4,6-Trinitrotoluene	0.11	U	0.12	0.11	0.048
121-14-2	2,4-Dinitrotoluene	0.085	U	0.11	0.085	0.029
606-20-2	2,6-Dinitrotoluene	0.085	U	0.11	0.085	0.042
35572-78-2	2-Amino-4,6-dinitrotoluene	0.15		0.12	0.11	0.054
88-72-2	2-Nitrotoluene	0.21	U	0.22	0.21	0.091
19406-51-0	4-Amino-2,6-dinitrotoluene	0.21	J1	0.16	0.13	0.061
99-99-0	4-Nitrotoluene	0.42	U	0.43	0.42	0.11
2691-41-0	HMX	0.21	U	0.22	0.21	0.093
5755-27-1	MNX	0.42	U	2.1	0.42	0.16
121-82-4	RDX	0.59	M	0.22	0.21	0.055
479-45-8	Tetryl	0.11	U	0.12	0.11	0.034

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	95	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240015.D
Lims ID: 280-137736-A-3-A
Client ID: G0091-20A
Sample Type: Client
Inject. Date: 24-Jun-2020 19:20:03 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-3-A
Misc. Info.: 280-0092716-015
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:07 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 24-Jun-2020 19:58:09

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1		6.712			ND	
6 MNX	1		7.384			ND	
7 RDX	1	7.781	7.785	-0.004	6446	0.0553	M
$ 9 1,2-Dinitrobenzene	1	8.748	8.738	0.010	26129	0.1890	M
10 1,3,5-Trinitrobenzene	1		8.918			ND	
11 1,3-Dinitrobenzene	1		9.565			ND	
12 Nitrobenzene	1	9.948	9.945	0.003	4067	0.0203	
14 Tetryl	1		10.252			ND	
16 2,4,6-Trinitrotoluene	1		11.225			ND	
17 4-Amino-2,6-dinitrotoluene	1	11.381	11.385	-0.004	2424	0.0201	
18 2-Amino-4,6-dinitrotoluene	1	11.674	11.678	-0.004	2822	0.0139	
19 2,6-Dinitrotoluene	1		11.818			ND	
20 2,4-Dinitrotoluene	1		12.018			ND	
21 o-Nitrotoluene	1		12.845			ND	
22 p-Nitrotoluene	1		13.272			ND	
23 m-Nitrotoluene	1	13.981	13.865	0.116	5134	0.0359	

QC Flag Legend

Review Flags
M - Manually Integrated

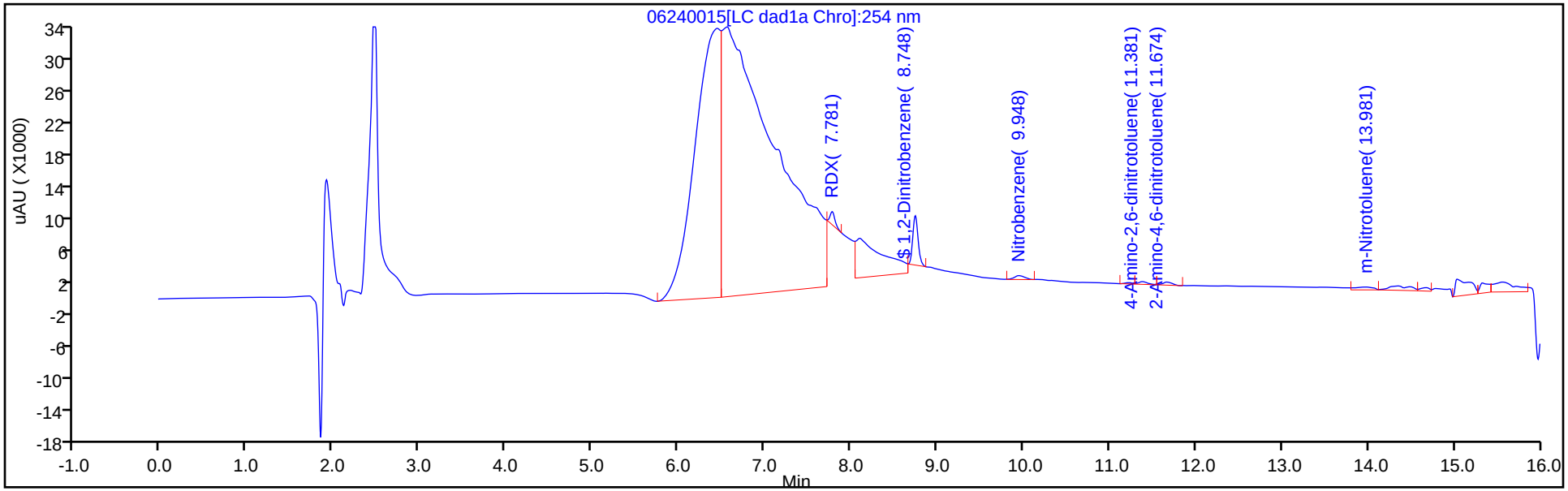
Report Date: 25-Jun-2020 21:10:12 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

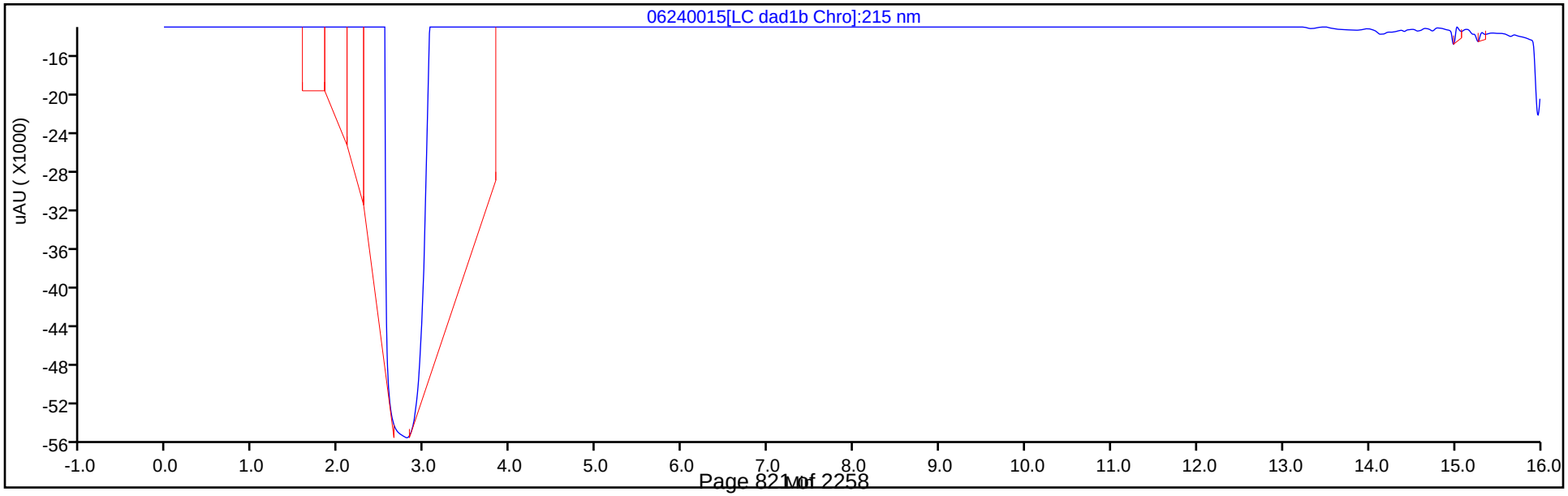
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240015.d

Injection Date:	24-Jun-2020 19:20:03	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-A-3-A	Lab Sample ID:	280-137736-3	Worklist Smp#:	15
Client ID:	G0091-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240015.D
Lims ID: 280-137736-A-3-A
Client ID: G0091-20A
Sample Type: Client
Inject. Date: 24-Jun-2020 19:20:03 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-3-A
Misc. Info.: 280-0092716-015
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:07 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 24-Jun-2020 19:58:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1890	94.52

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

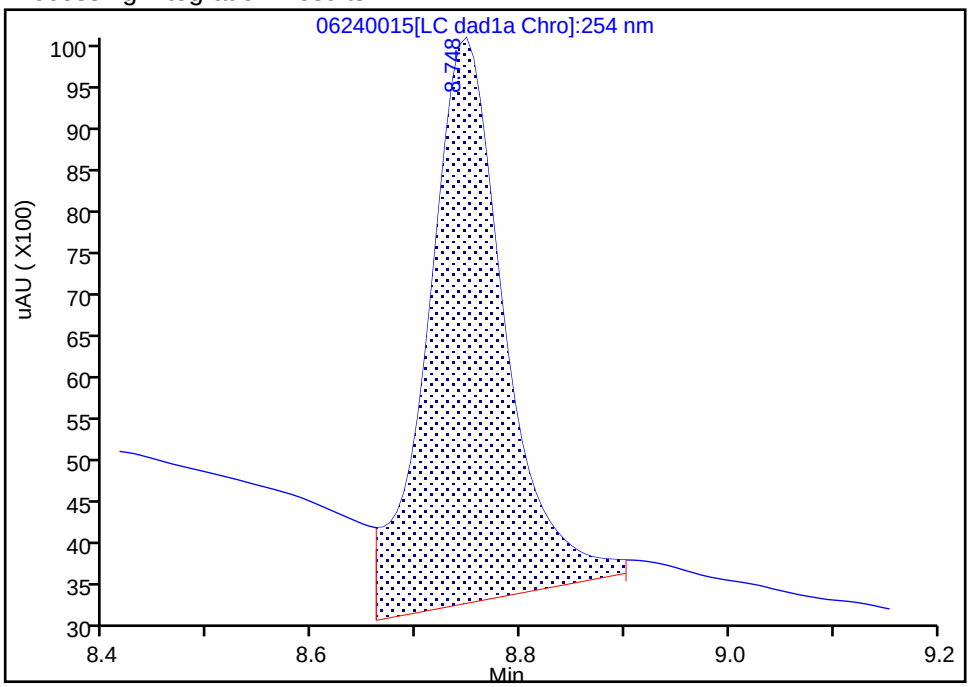
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240015.d				
Injection Date:	24-Jun-2020 19:20:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-3-A	Lab Sample ID:	280-137736-3		
Client ID:	G0091-20A				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

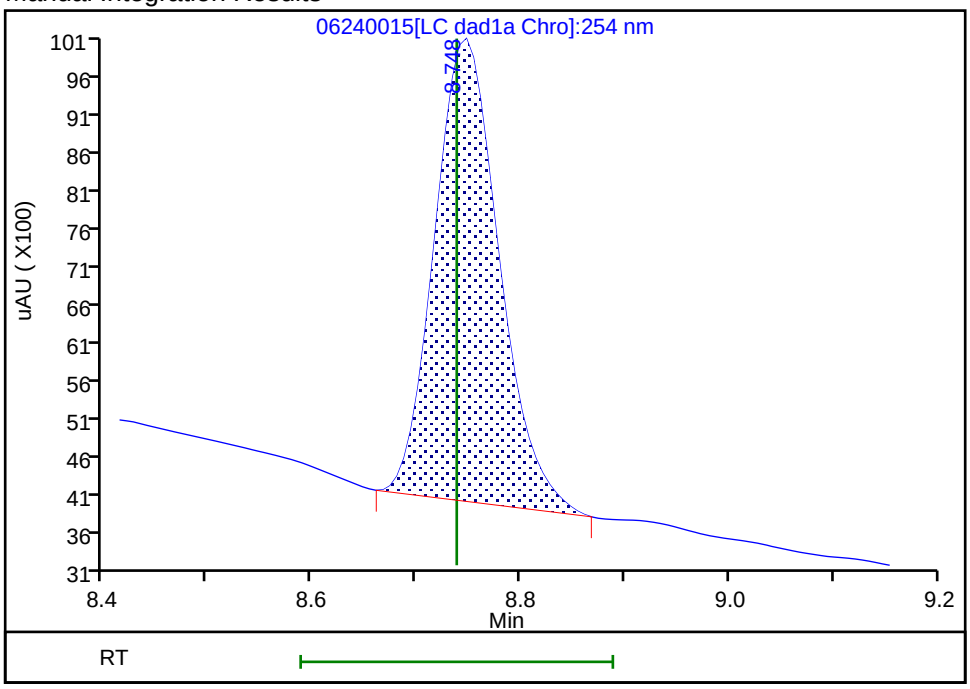
Processing Integration Results

RT: 8.75
Area: 35215
Amount: 0.254789
Amount Units: ug/mL



Manual Integration Results

RT: 8.75
Area: 26129
Amount: 0.189050
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 19:57:50

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

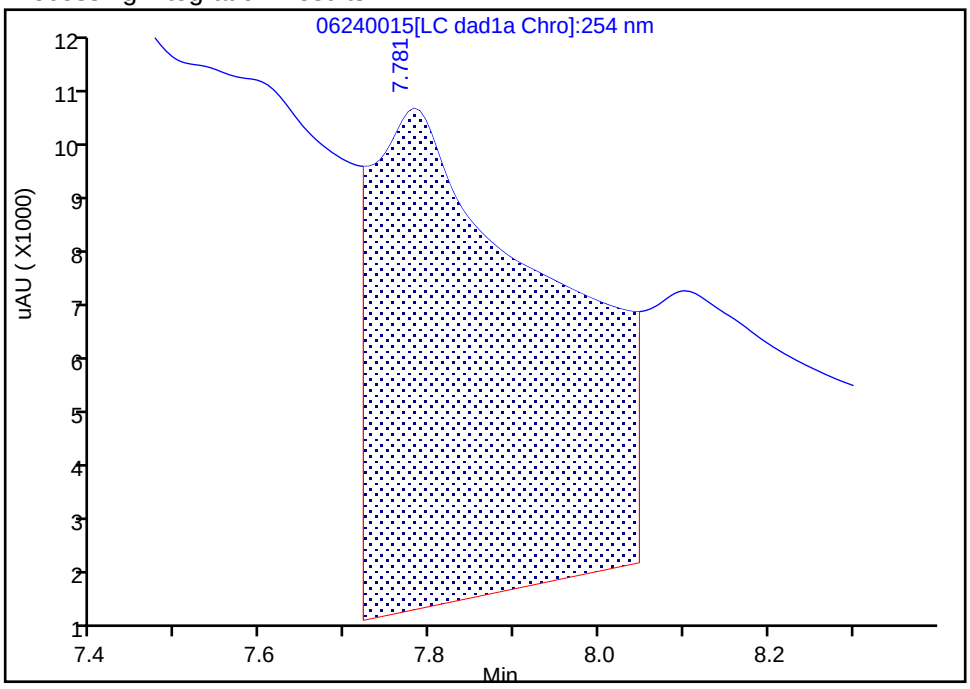
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240015.d				
Injection Date:	24-Jun-2020 19:20:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-3-A	Lab Sample ID:	280-137736-3		
Client ID:	G0091-20A				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

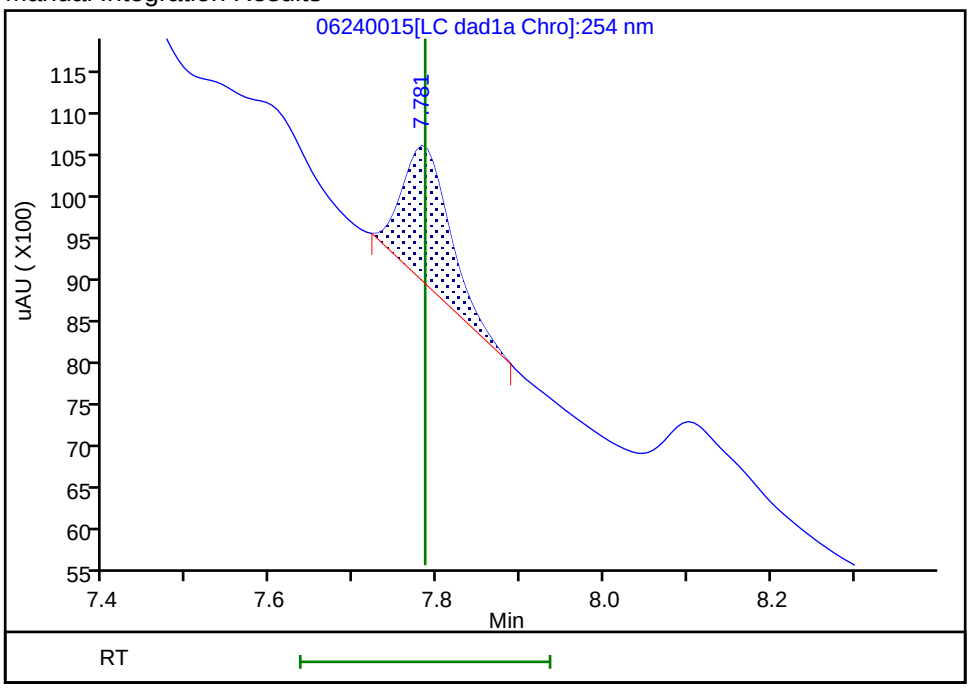
Processing Integration Results

RT: 7.78
Area: 127256
Amount: 1.091267
Amount Units: ug/mL



Manual Integration Results

RT: 7.78
Area: 6446
Amount: 0.055277
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 19:57:56

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0091-20A Lab Sample ID: 280-137736-3

Matrix: Water Lab File ID: 06260013.D

Analysis Method: 8330A Date Collected: 06/16/2020 09:35

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 472.2(mL) Date Analyzed: 06/26/2020 22:04

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

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

Analysis Batch No.: 500326 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-08-1	3-Nitrotoluene	0.42	U	0.42	0.42	0.21
19406-51-0	*4-Amino-2,6-dinitrotoluene*	*0.14*	*J M J1*	*0.16*	0.13	*0.061*
98-95-3	Nitrobenzene	0.21	U	0.22	0.21	0.096

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	90	*M*	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260013.D
Lims ID: 280-137736-A-3-A
Client ID: G0091-20A
Sample Type: Client
Inject. Date: 26-Jun-2020 22:04:46 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-3-A
Misc. Info.: 280-0092796-013
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 15:27:55 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 27-Jun-2020 11:55:17

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
	6 HMX	1	7.121	7.154	-0.033	5070	-0.001435	7M
	7 MNX	1		7.919			ND	
	8 RDX	1	9.341	9.367	-0.026	11320	0.0463	
	9 Nitrobenzene	1		12.274			ND	
$	10 1,2-Dinitrobenzene	1	13.241	13.281	-0.040	51738	0.1800	M
	12 1,3-Dinitrobenzene	1		15.814			ND	
	14 o-Nitrotoluene	1		16.754			ND	
	15 p-Nitrotoluene	1		17.034			ND	
	16 4-Amino-2,6-dinitrotoluene	1	17.428	17.474	-0.046	4429	0.0128	M
	17 m-Nitrotoluene	1		17.967			ND	M
	18 2-Amino-4,6-dinitrotoluene	1	18.368	18.407	-0.039	9544	0.0205	M
	19 1,3,5-Trinitrobenzene	1		19.147			ND	U
	20 2,6-Dinitrotoluene	1		20.074			ND	
	21 2,4-Dinitrotoluene	1		20.587			ND	
	22 Tetryl	1		23.887			ND	
	23 2,4,6-Trinitrotoluene	1		24.907			ND	

QC Flag Legend

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

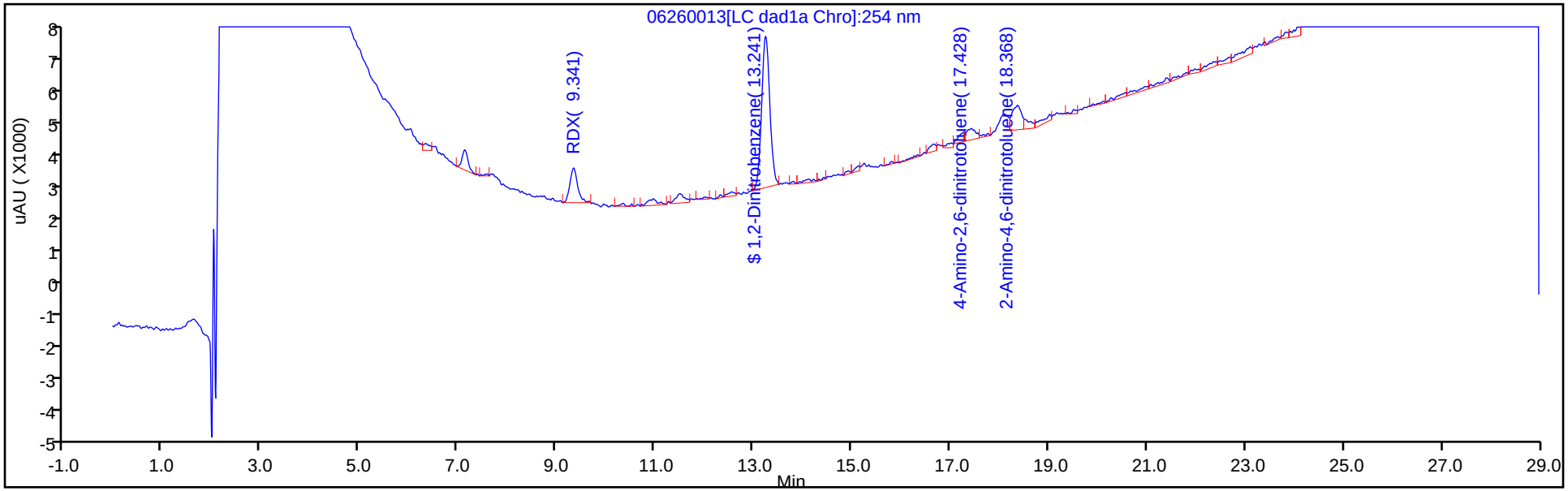
Report Date: 27-Jun-2020 15:27:57 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

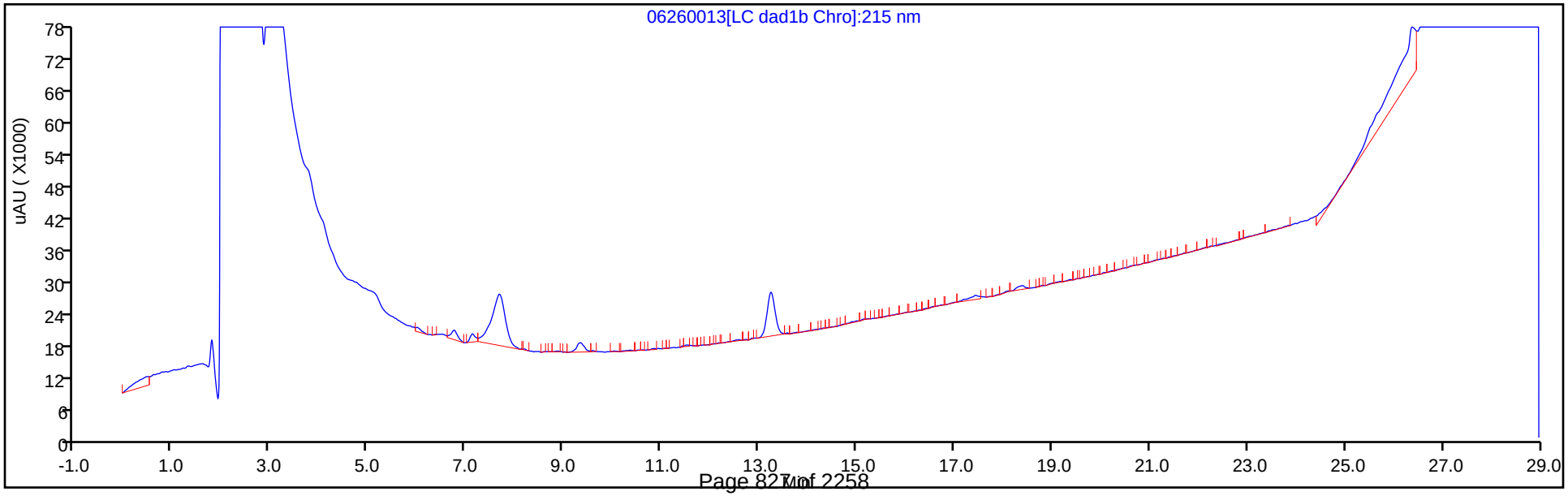
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260013.d

Injection Date:	26-Jun-2020 22:04:46	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137736-A-3-A	Lab Sample ID:	280-137736-3	Worklist Smp#:	13
Client ID:	G0091-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260013.D				
Lims ID:	280-137736-A-3-A				
Client ID:	G0091-20A				
Sample Type:	Client				
Inject. Date:	26-Jun-2020 22:04:46	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-3-A				
Misc. Info.:	280-0092796-013				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 15:27:55	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1036				
First Level Reviewer: zhangji		Date:	27-Jun-2020 11:55:17		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1800	90.00

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

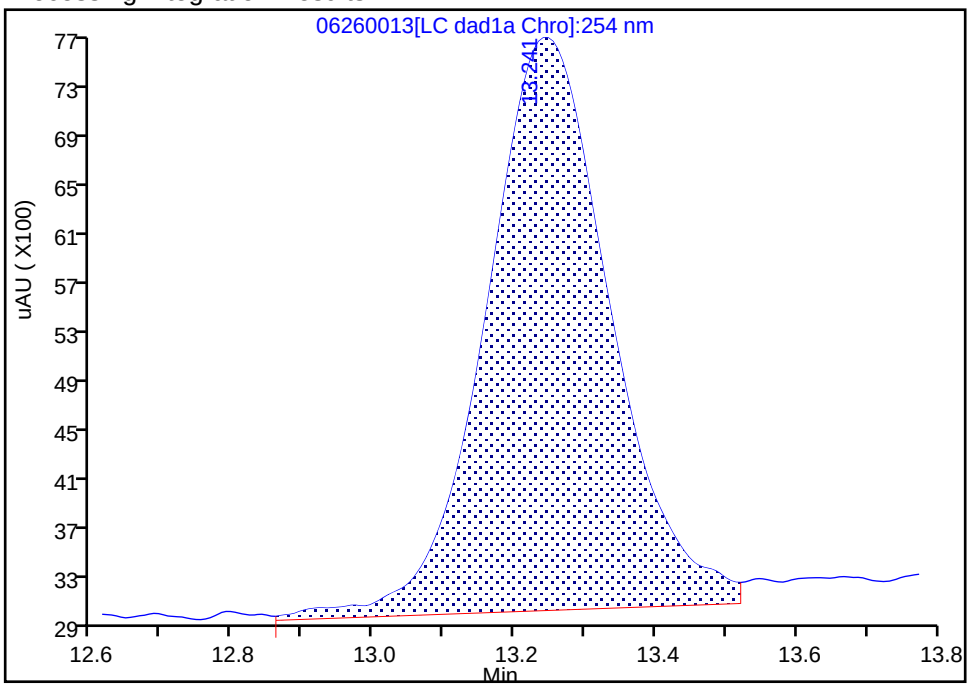
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260013.d				
Injection Date:	26-Jun-2020 22:04:46	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-3-A	Lab Sample ID:	280-137736-3		
Client ID:	G0091-20A				
Operator ID:	JZ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

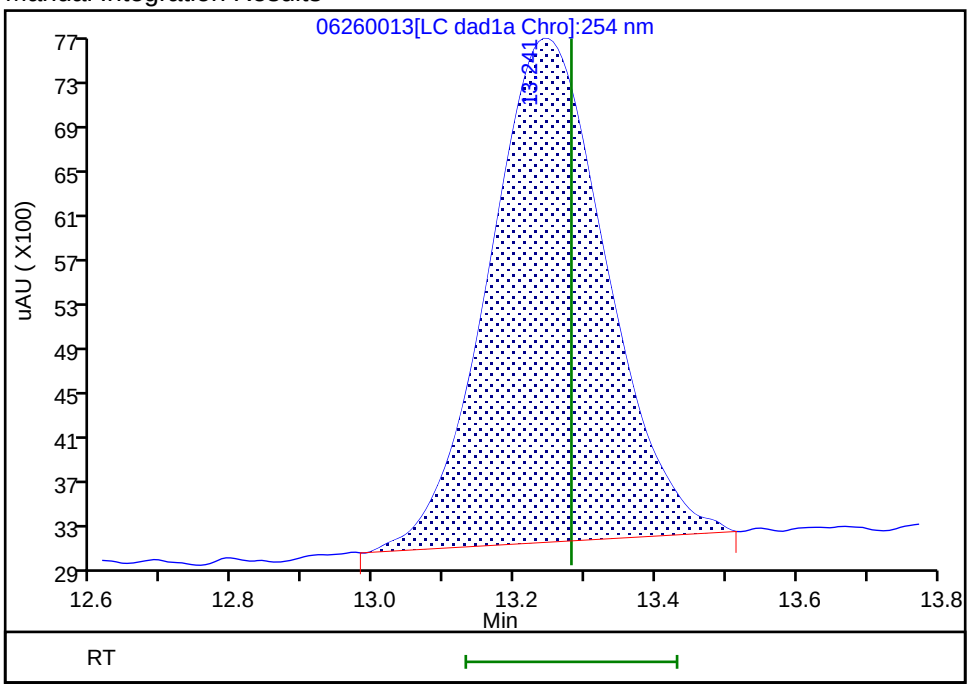
Processing Integration Results

RT: 13.24
Area: 56510
Amount: 0.197206
Amount Units: ug/ml



Manual Integration Results

RT: 13.24
Area: 51738
Amount: 0.179993
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:54:53

Audit Action: Manually Integrated Audit Reason: Baseline

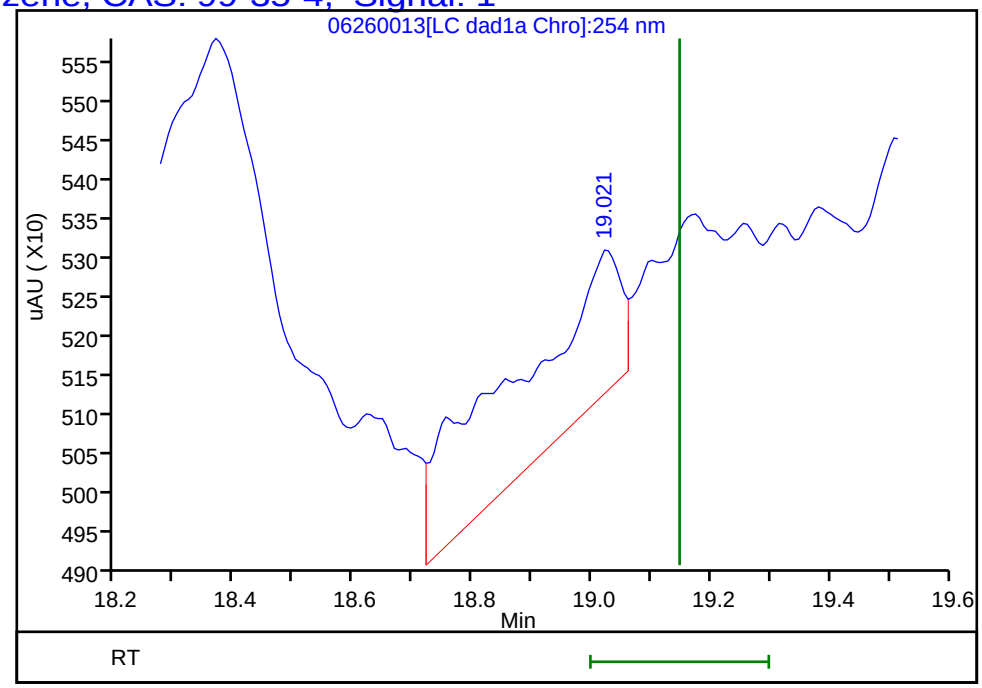
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260013.d				
Injection Date:	26-Jun-2020 22:04:46	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-3-A	Lab Sample ID:	280-137736-3		
Client ID:	G0091-20A				
Operator ID:	JZ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4, Signal: 1

RT: 19.02
Response: 2731
Amount: 0.005780



Reviewer: zhangji, 27-Jun-2020 11:55:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

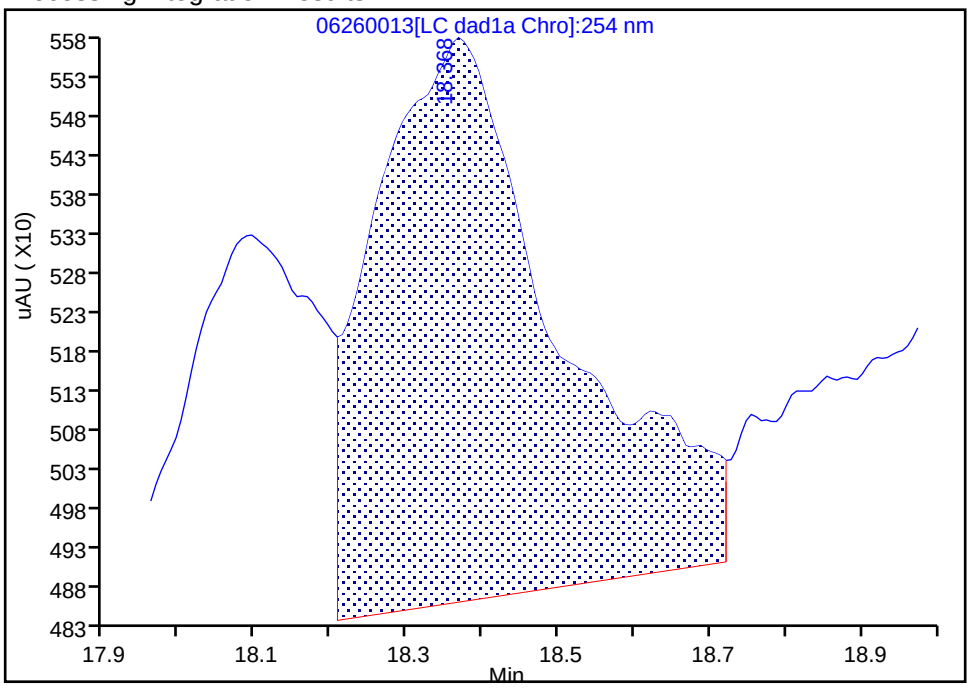
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260013.d				
Injection Date:	26-Jun-2020 22:04:46	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-3-A	Lab Sample ID:	280-137736-3		
Client ID:	G0091-20A				
Operator ID:	JZ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

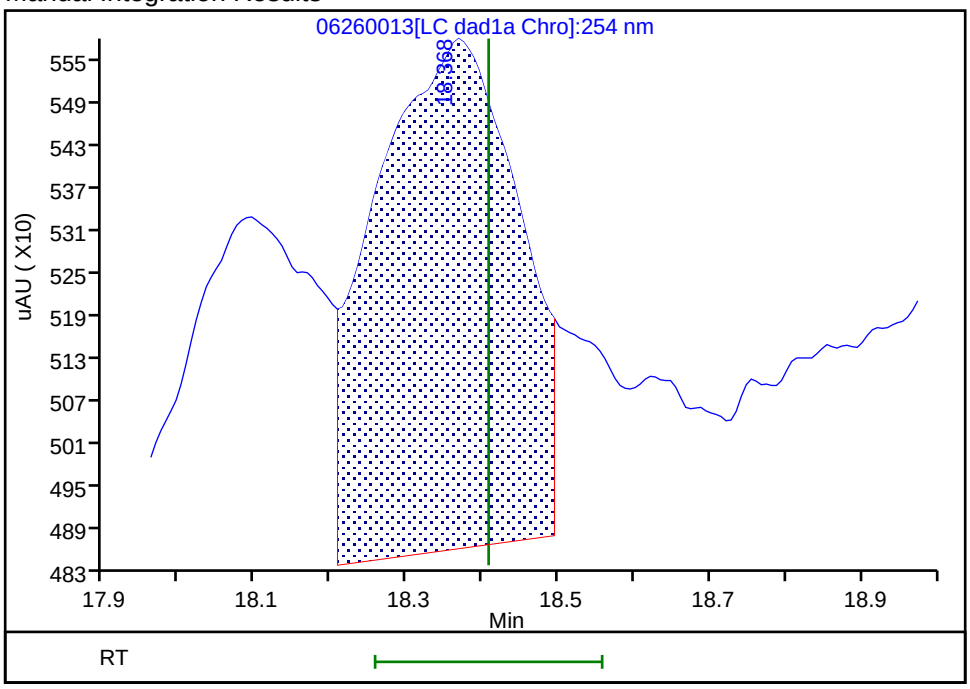
Processing Integration Results

RT: 18.37
Area: 12395
Amount: 0.026644
Amount Units: ug/ml



Manual Integration Results

RT: 18.37
Area: 9544
Amount: 0.020515
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:55:15

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

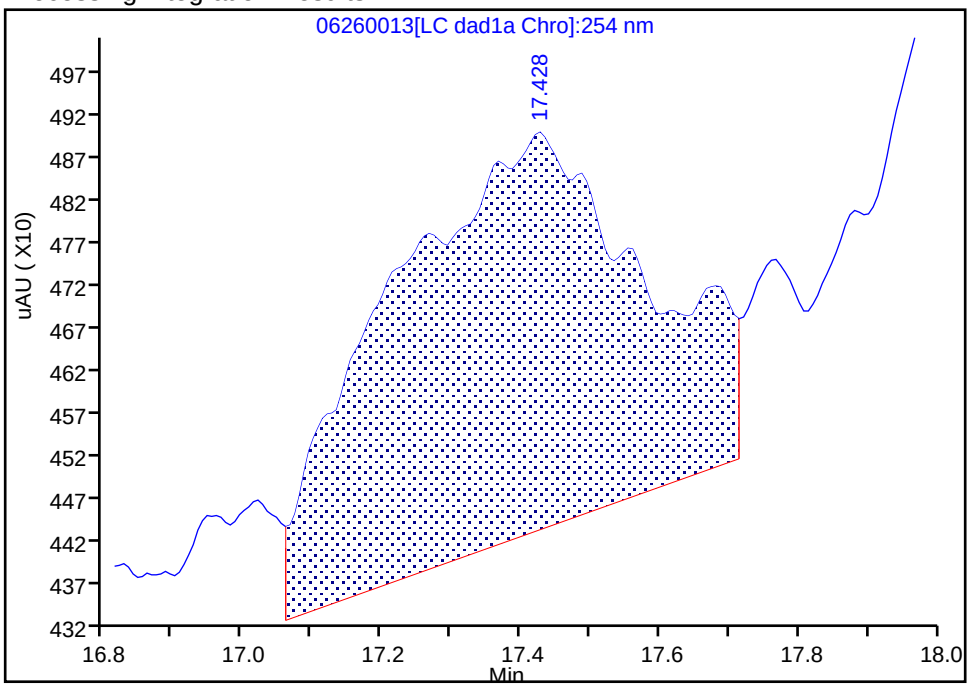
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260013.d				
Injection Date:	26-Jun-2020 22:04:46	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-3-A	Lab Sample ID:	280-137736-3		
Client ID:	G0091-20A				
Operator ID:	JZ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

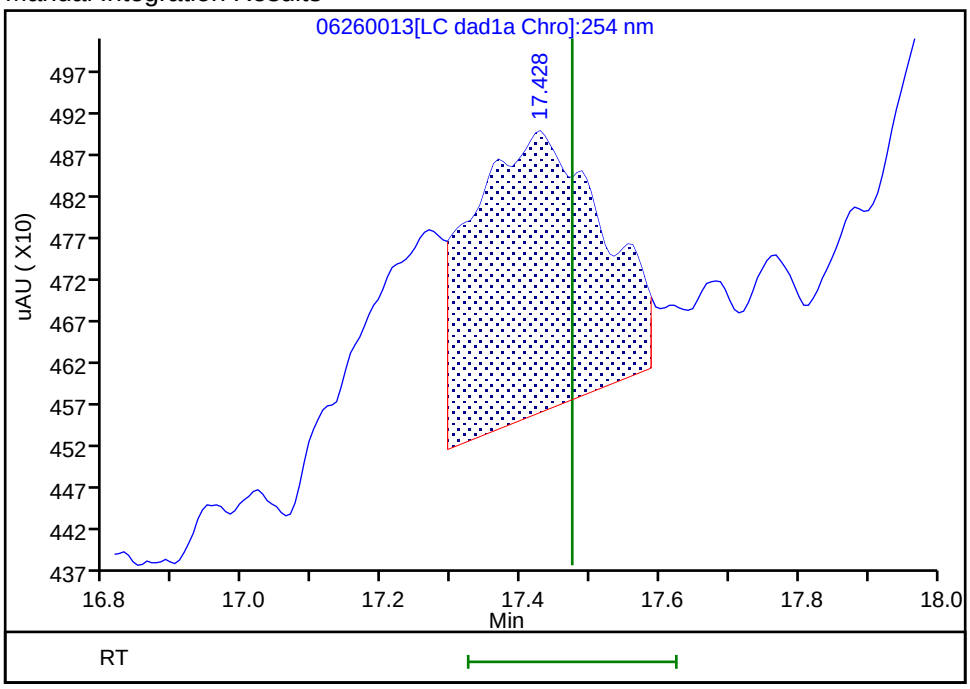
Processing Integration Results

RT: 17.43
Area: 12192
Amount: 0.035315
Amount Units: ug/ml



Manual Integration Results

RT: 17.43
Area: 4429
Amount: 0.012829
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:55:09

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

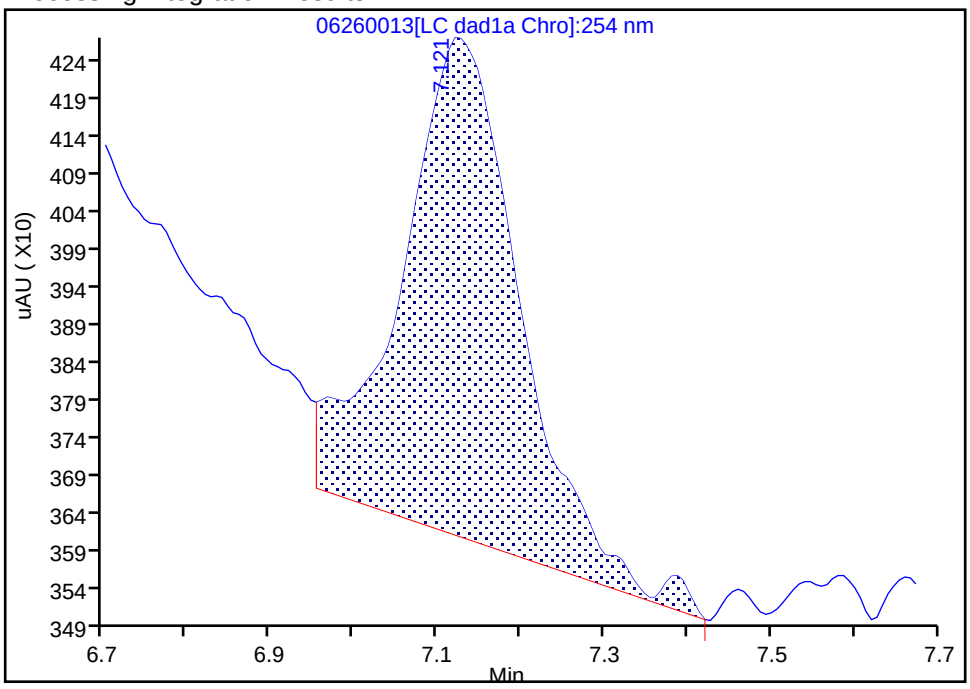
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260013.d				
Injection Date:	26-Jun-2020 22:04:46	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-3-A	Lab Sample ID:	280-137736-3		
Client ID:	G0091-20A				
Operator ID:	JZ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

6 HMX, CAS: 2691-41-0

Signal: 1

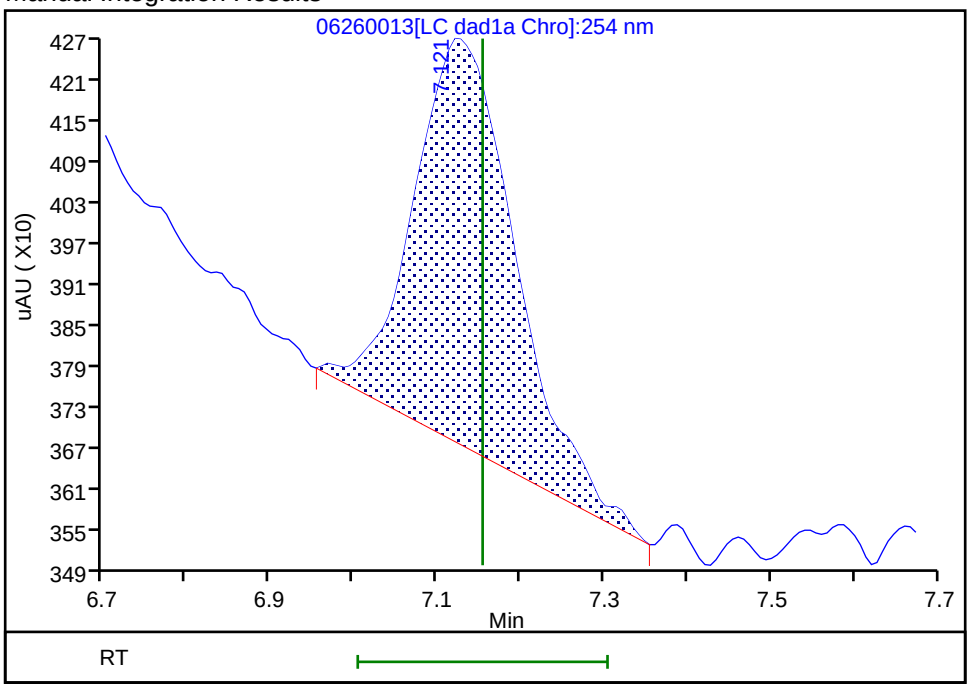
Processing Integration Results

RT: 7.12
Area: 6574
Amount: 0.007062
Amount Units: ug/ml



Manual Integration Results

RT: 7.12
Area: 5070
Amount: -0.001435
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:54:47

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0123-20A Lab Sample ID: 280-137736-4

Matrix: Water Lab File ID: 06240016.D

Analysis Method: 8330A Date Collected: 06/16/2020 13:20

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 460.6(mL) Date Analyzed: 06/24/2020 19:43

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499988 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.22	U	0.23	0.22	0.091
99-65-0	1,3-Dinitrobenzene	0.11	U M	0.12	0.11	0.040
118-96-7	2,4,6-Trinitrotoluene	0.11	U	0.12	0.11	0.049
121-14-2	2,4-Dinitrotoluene	0.087	U	0.11	0.087	0.030
606-20-2	2,6-Dinitrotoluene	0.087	U	0.11	0.087	0.044
35572-78-2	2-Amino-4,6-dinitrotoluene	1.6		0.12	0.11	0.055
88-72-2	2-Nitrotoluene	0.22	U	0.23	0.22	0.093
99-08-1	3-Nitrotoluene	0.43	U	0.43	0.43	0.21
19406-51-0	4-Amino-2,6-dinitrotoluene	2.2		0.16	0.13	0.063
99-99-0	4-Nitrotoluene	0.43	U	0.45	0.43	0.11
5755-27-1	MNX	5.9	M J1	2.2	0.43	0.17
98-95-3	Nitrobenzene	0.22	U M	0.23	0.22	0.099
479-45-8	Tetryl	0.11	U M	0.12	0.11	0.035

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	98	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240016.D
Lims ID: 280-137736-A-4-A
Client ID: G0123-20A
Sample Type: Client
Inject. Date: 24-Jun-2020 19:43:08 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-4-A
Misc. Info.: 280-0092716-016
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:07 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 24-Jun-2020 20:11:50

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 HMX	1	6.715	6.712	0.003	489881	5.70	EM
	6 MNX	1	7.422	7.384	0.038	85444	0.5389	M
	7 RDX	1	7.782	7.785	-0.003	478910	4.11	EM
$	9 1,2-Dinitrobenzene	1	8.749	8.738	0.011	27075	0.1959	M
	10 1,3,5-Trinitrobenzene	1		8.918			ND	
	11 1,3-Dinitrobenzene	1		9.565			ND	U
	12 Nitrobenzene	1		9.945			ND	U
	14 Tetryl	1		10.252			ND	U
	16 2,4,6-Trinitrotoluene	1		11.225			ND	
	17 4-Amino-2,6-dinitrotoluene	1	11.389	11.385	0.004	35252	0.2042	
	18 2-Amino-4,6-dinitrotoluene	1	11.675	11.678	-0.003	29317	0.1445	
	19 2,6-Dinitrotoluene	1		11.818			ND	
	20 2,4-Dinitrotoluene	1		12.018			ND	
	21 o-Nitrotoluene	1		12.845			ND	
	22 p-Nitrotoluene	1		13.272			ND	
	23 m-Nitrotoluene	1		13.865			ND	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
Review Flags
M - Manually Integrated
U - Marked Undetected

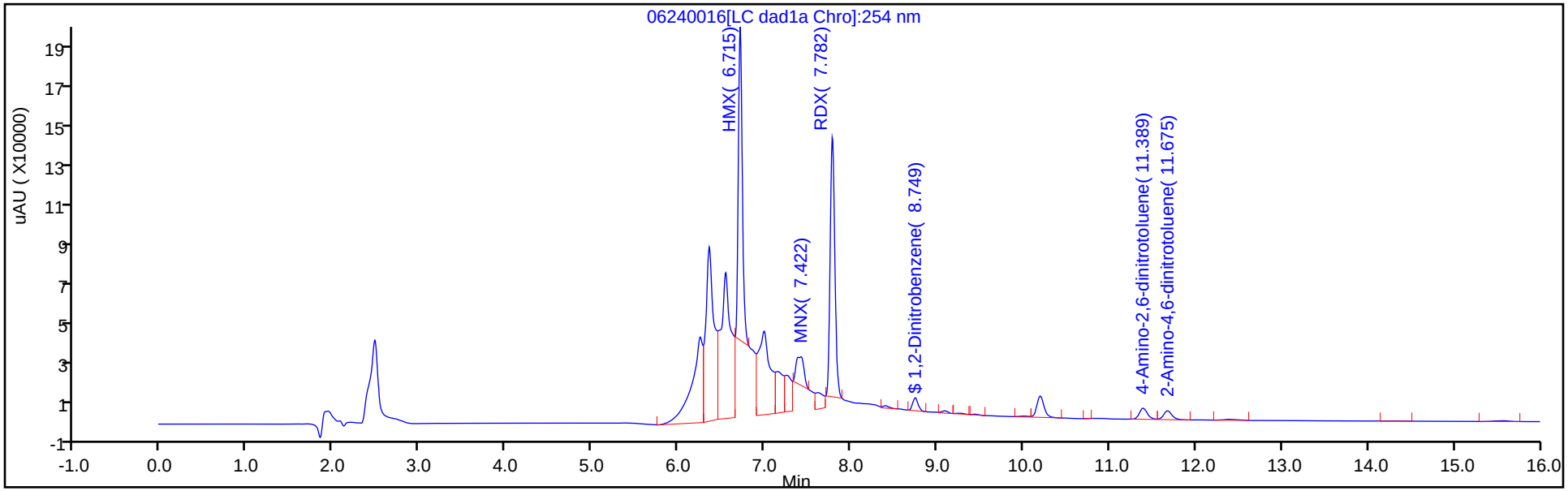
Report Date: 25-Jun-2020 21:10:12 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

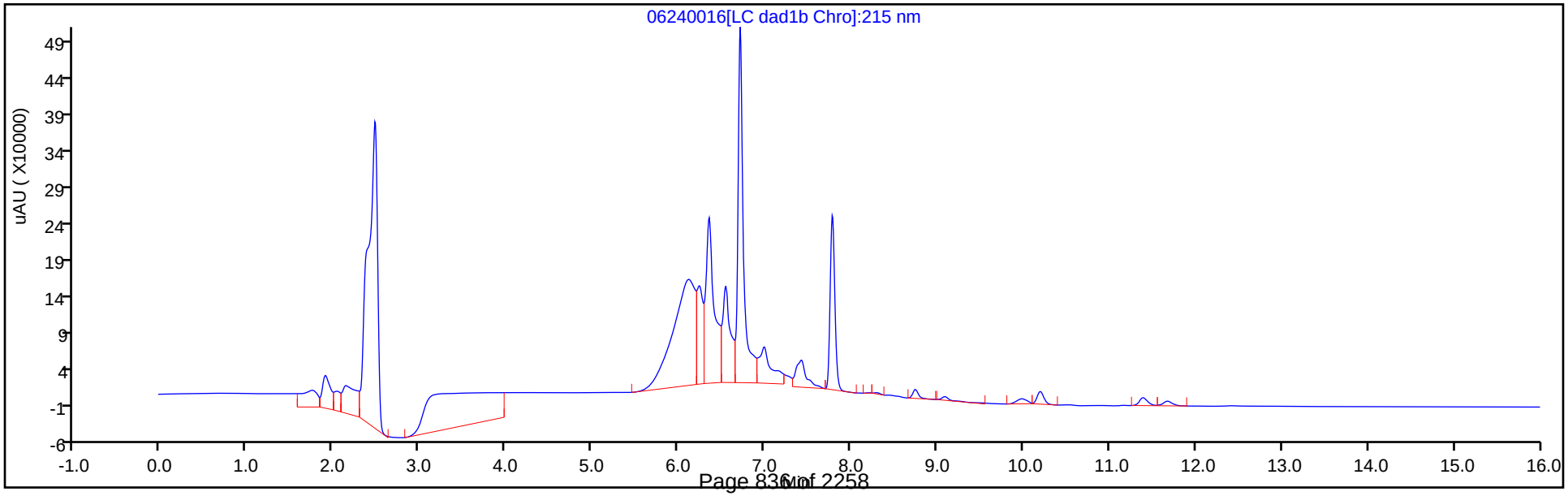
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240016.d

Injection Date:	24-Jun-2020 19:43:08	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4	Worklist Smp#:	16
Client ID:	G0123-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240016.D				
Lims ID:	280-137736-A-4-A				
Client ID:	G0123-20A				
Sample Type:	Client				
Inject. Date:	24-Jun-2020 19:43:08	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-4-A				
Misc. Info.:	280-0092716-016				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	25-Jun-2020 21:10:07	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1063				
First Level Reviewer: zhangji		Date:	24-Jun-2020 20:11:50		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1959	97.95

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

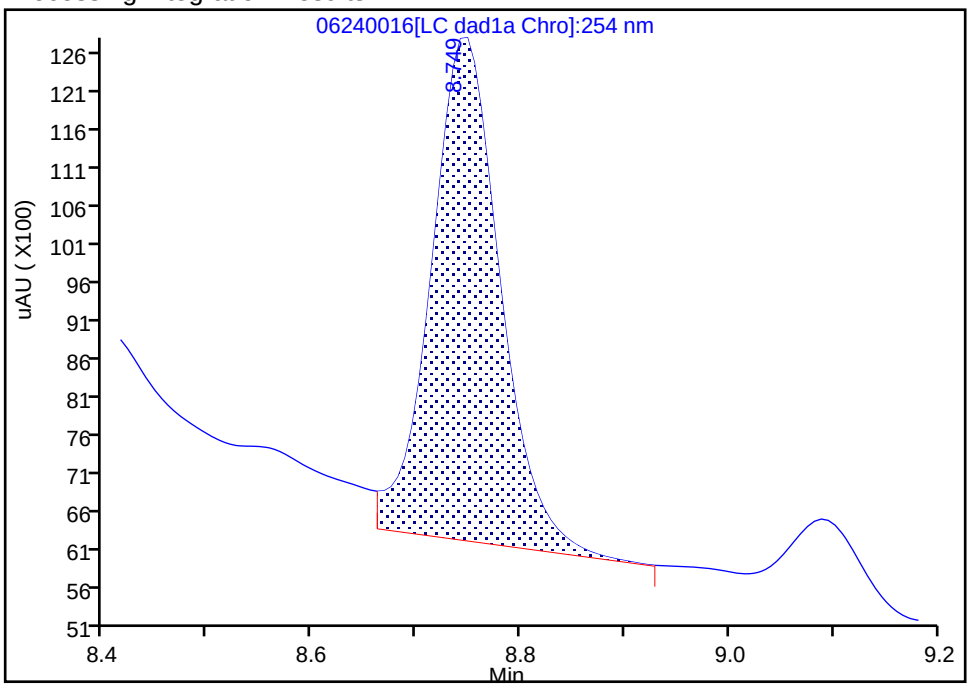
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240016.d				
Injection Date:	24-Jun-2020 19:43:08	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4		
Client ID:	G0123-20A				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

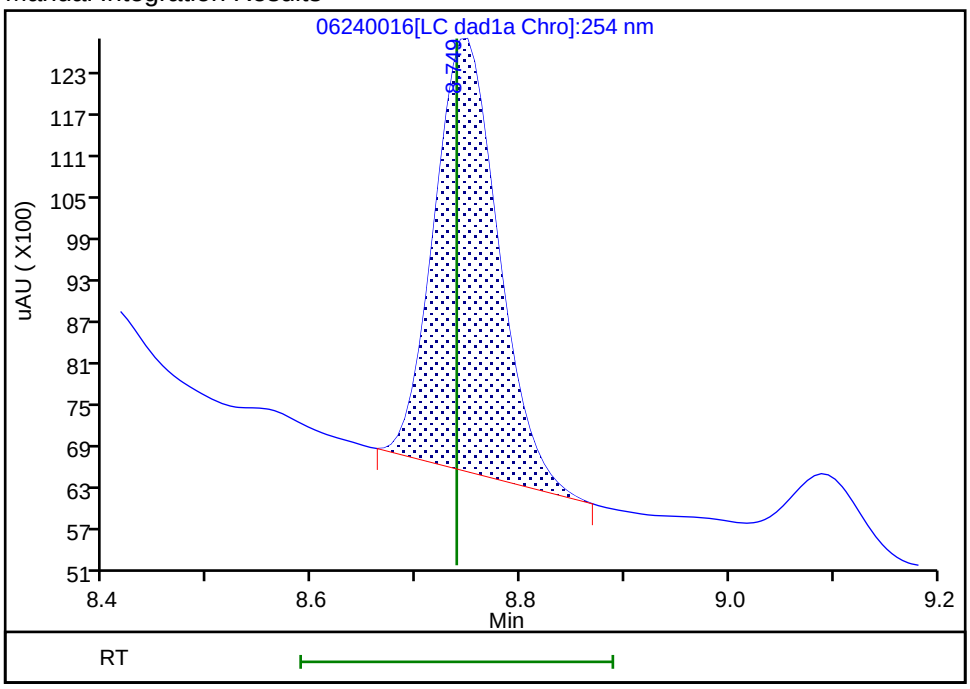
Processing Integration Results

RT: 8.75
Area: 30676
Amount: 0.221949
Amount Units: ug/mL



Manual Integration Results

RT: 8.75
Area: 27075
Amount: 0.195894
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 20:11:36

Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

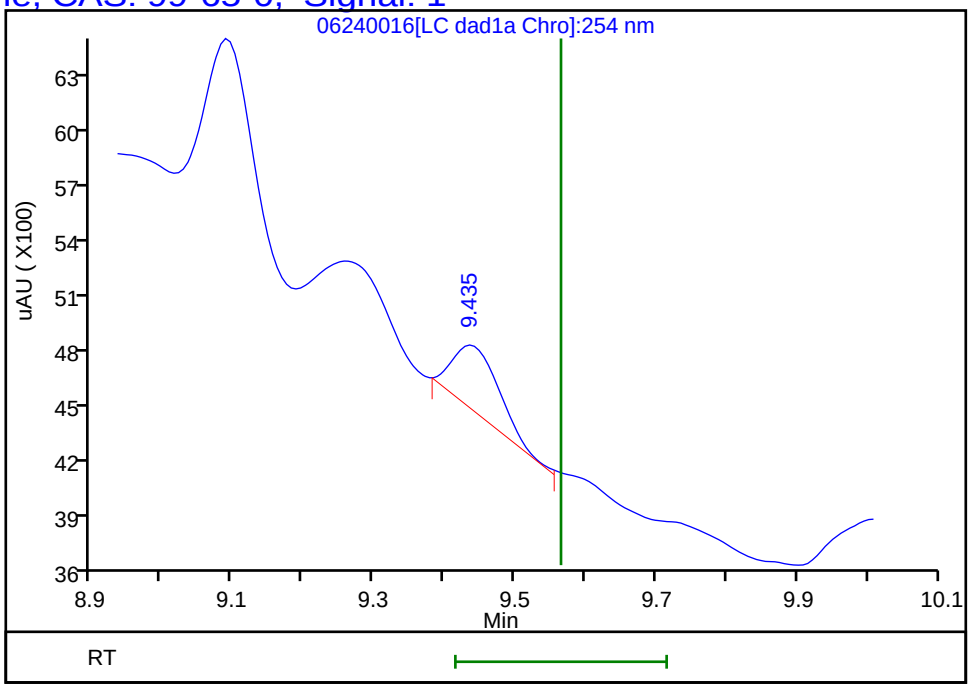
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240016.d

Injection Date:	24-Jun-2020 19:43:08	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4		
Client ID:	G0123-20A				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

11 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.44
Response: 1595
Amount: 0.005201



Reviewer: zhangji, 24-Jun-2020 20:11:50
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

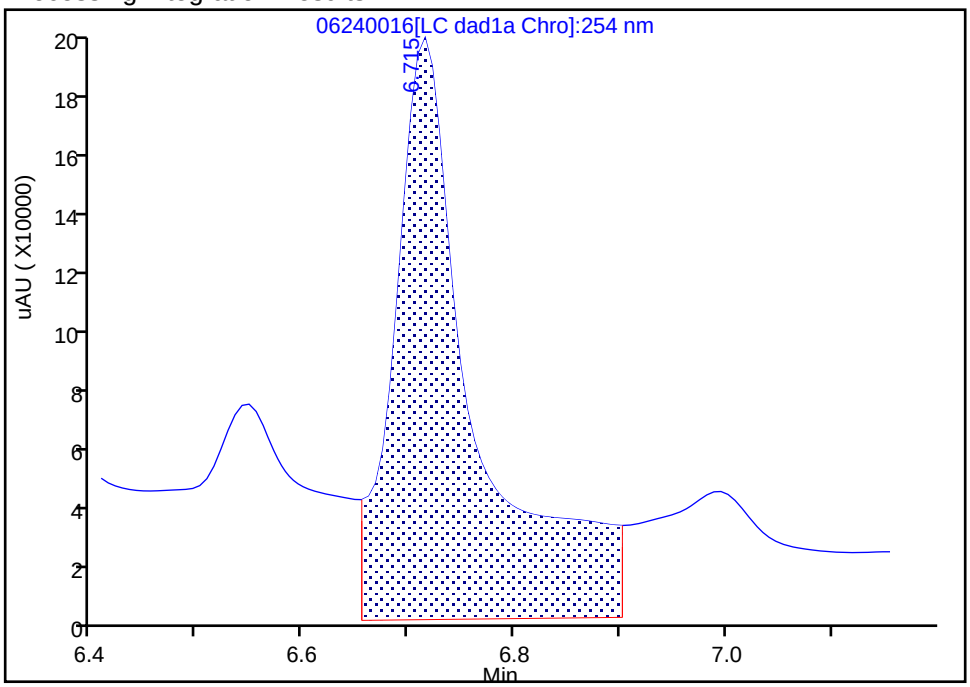
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240016.d				
Injection Date:	24-Jun-2020 19:43:08	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4		
Client ID:	G0123-20A				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

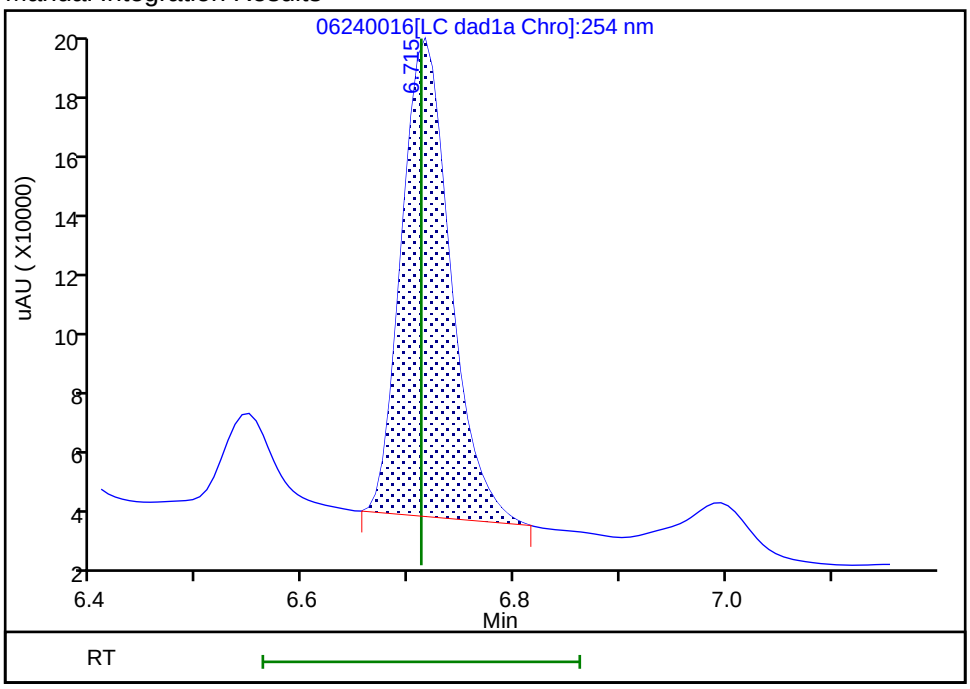
Processing Integration Results

RT: 6.72
Area: 1008262
Amount: 11.729137
Amount Units: ug/mL



Manual Integration Results

RT: 6.72
Area: 489881
Amount: 5.698798
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 20:11:14

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

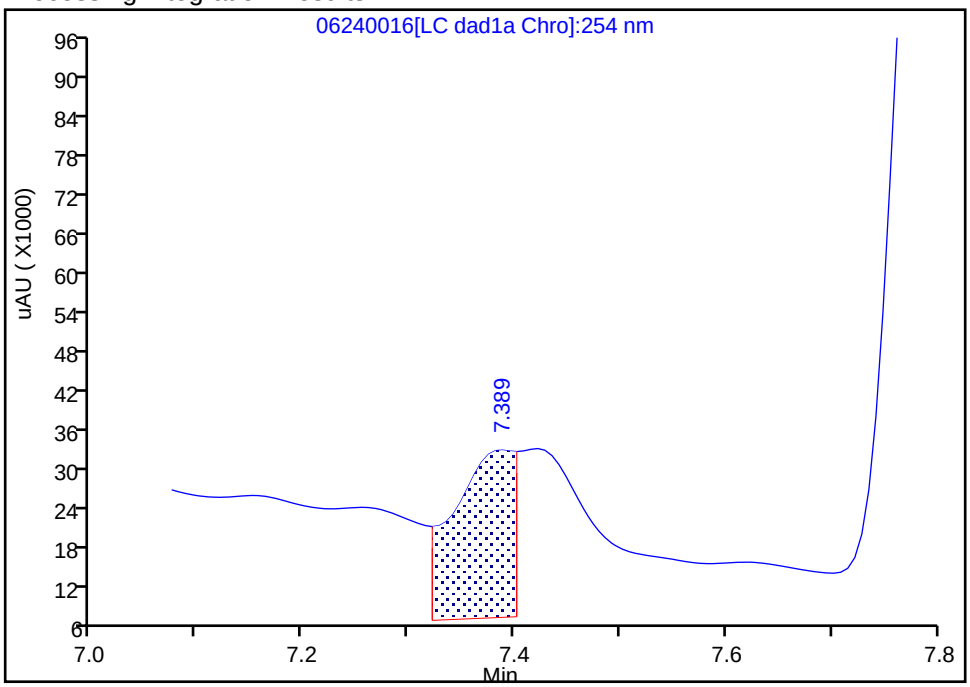
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240016.d		
Injection Date:	24-Jun-2020 19:43:08	Instrument ID:	CHHPLC_X3
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4
Client ID:	G0123-20A		
Operator ID:	JZ	ALS Bottle#:	16 Worklist Smp#: 16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000
Method:	8330_X3	Limit Group:	GCSV - 8330
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm

6 MNX, CAS: 5755-27-1

Signal: 1

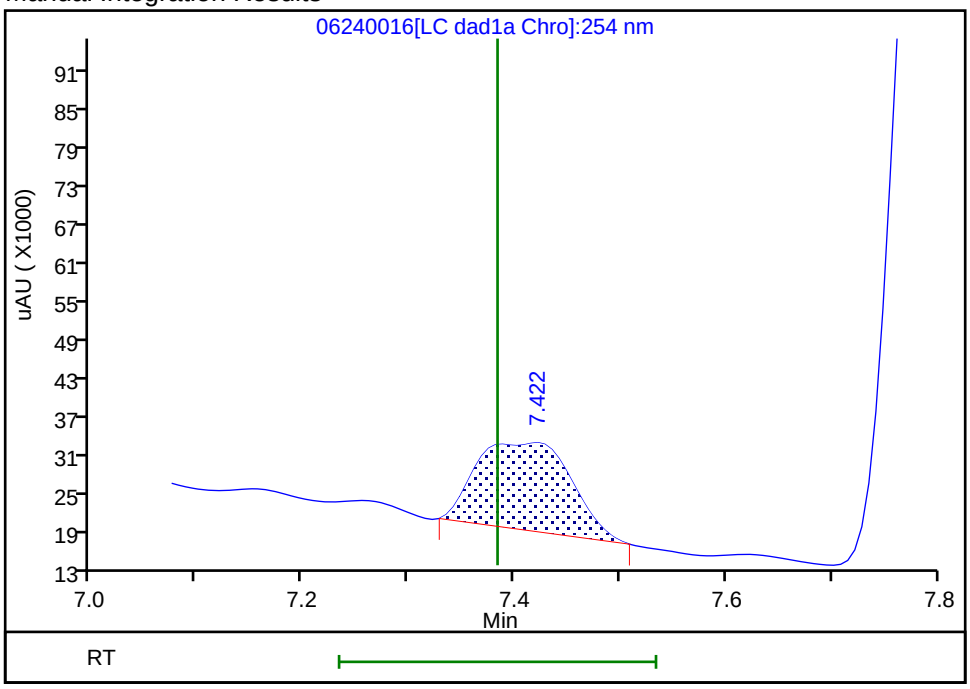
Processing Integration Results

RT: 7.39
Area: 100751
Amount: 0.635476
Amount Units: ug/mL



Manual Integration Results

RT: 7.42
Area: 85444
Amount: 0.538929
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 20:11:20

Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

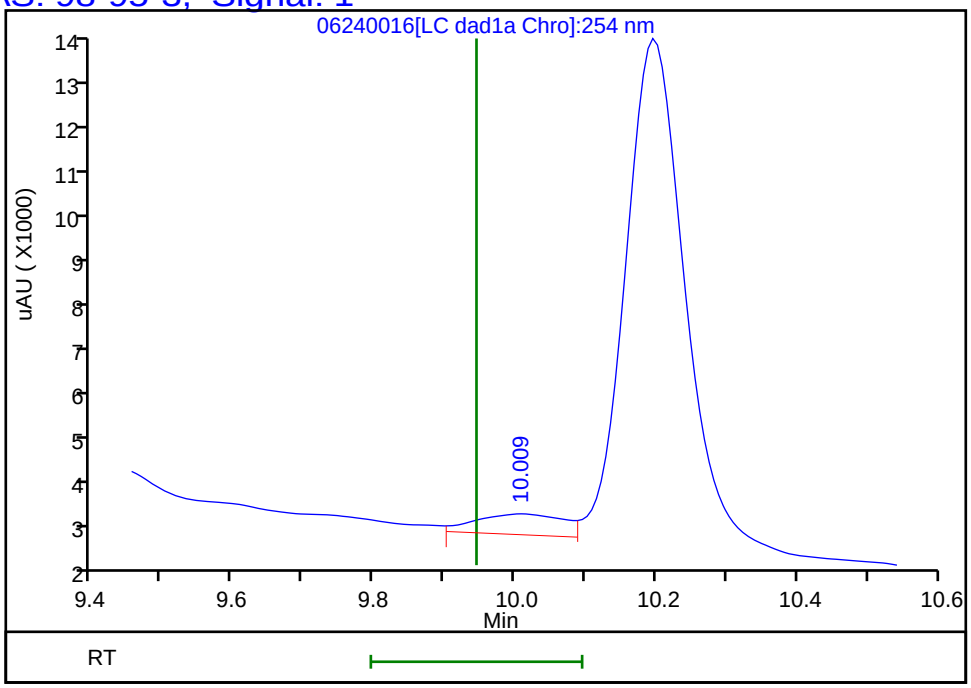
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240016.d

Injection Date:	24-Jun-2020 19:43:08	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4		
Client ID:	G0123-20A				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

12 Nitrobenzene, CAS: 98-95-3, Signal: 1

RT: 10.01
Response: 3659
Amount: 0.018258



Reviewer: zhangji, 24-Jun-2020 20:11:50

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

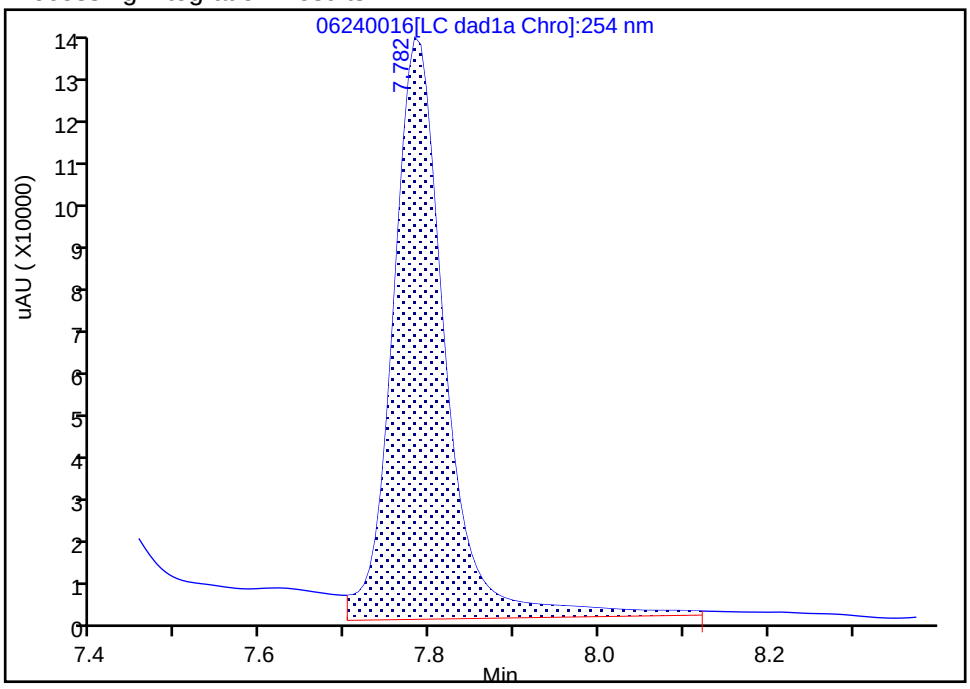
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240016.d				
Injection Date:	24-Jun-2020 19:43:08	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4		
Client ID:	G0123-20A				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

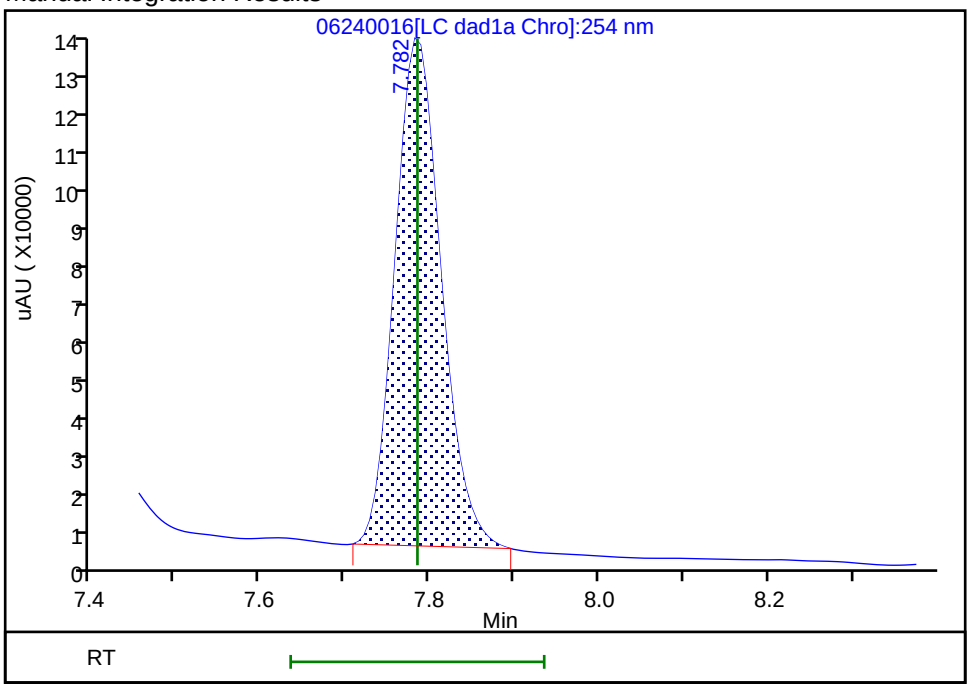
Processing Integration Results

RT: 7.78
Area: 563435
Amount: 4.831663
Amount Units: ug/mL



Manual Integration Results

RT: 7.78
Area: 478910
Amount: 4.106830
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 20:11:30

Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

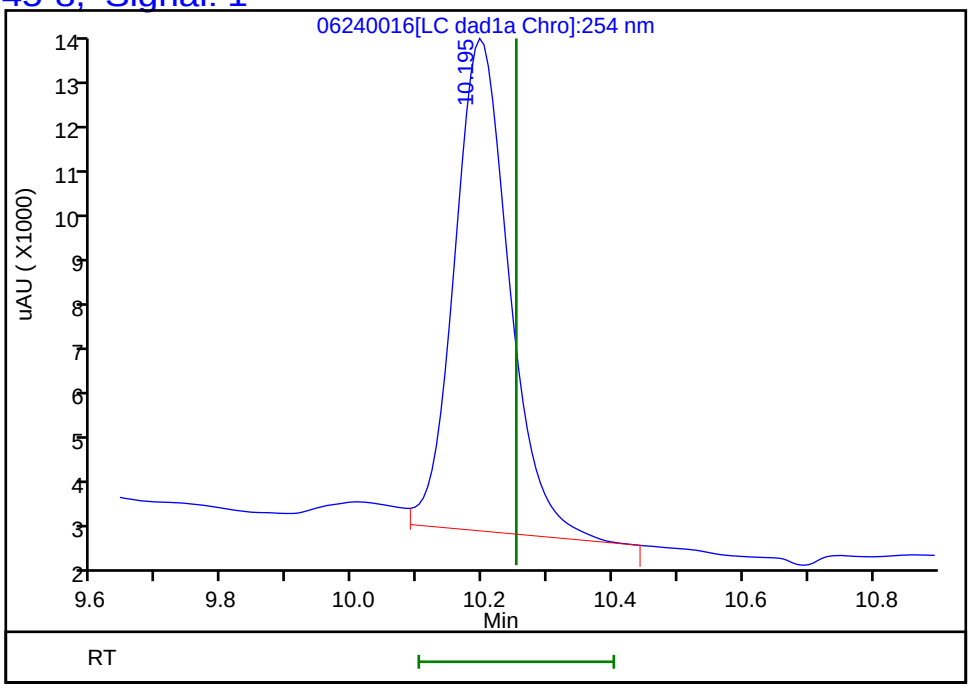
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240016.d

Injection Date:	24-Jun-2020 19:43:08	Instrument ID:	CHHPLC_X3
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4
Client ID:	G0123-20A		
Operator ID:	JZ	ALS Bottle#:	16 Worklist Smp#: 16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000
Method:	8330_X3	Limit Group:	GCSV - 8330
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.20
Response: 60559
Amount: 0.342079



Reviewer: zhangji, 24-Jun-2020 20:11:50
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0123-20A Lab Sample ID: 280-137736-4

Matrix: Water Lab File ID: 06260014.D

Analysis Method: 8330A Date Collected: 06/16/2020 13:20

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 460.6(mL) Date Analyzed: 06/26/2020 22:39

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

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

Analysis Batch No.: 500326 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
5755-27-1	*MNX*	*3.4*	*J1*	*2.2*	0.43	*0.17*

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	90		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260014.D
Lims ID: 280-137736-A-4-A
Client ID: G0123-20A
Sample Type: Client
Inject. Date: 26-Jun-2020 22:39:44 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-4-A
Misc. Info.: 280-0092796-014
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 15:27:55 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 27-Jun-2020 11:55:48

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
	6 HMX	1	7.123	7.154	-0.031	913102	5.13	E
	7 MNX	1	7.883	7.919	-0.036	88014	0.3095	
	8 RDX	1	9.329	9.367	-0.038	964630	3.95	E
	9 Nitrobenzene	1		12.274			ND	
$	10 1,2-Dinitrobenzene	1	13.242	13.281	-0.039	51702	0.1799	
	12 1,3-Dinitrobenzene	1		15.814			ND	
	14 o-Nitrotoluene	1		16.754			ND	U
	15 p-Nitrotoluene	1		17.034			ND	
	16 4-Amino-2,6-dinitrotoluene	1	17.429	17.474	-0.045	68581	0.1987	M
	17 m-Nitrotoluene	1		17.967			ND	
	18 2-Amino-4,6-dinitrotoluene	1	18.356	18.407	-0.051	75710	0.1627	M
	19 1,3,5-Trinitrobenzene	1		19.147			ND	
	20 2,6-Dinitrotoluene	1		20.074			ND	
	21 2,4-Dinitrotoluene	1		20.587			ND	U
	22 Tetryl	1		23.887			ND	
	23 2,4,6-Trinitrotoluene	1		24.907			ND	

QC Flag Legend

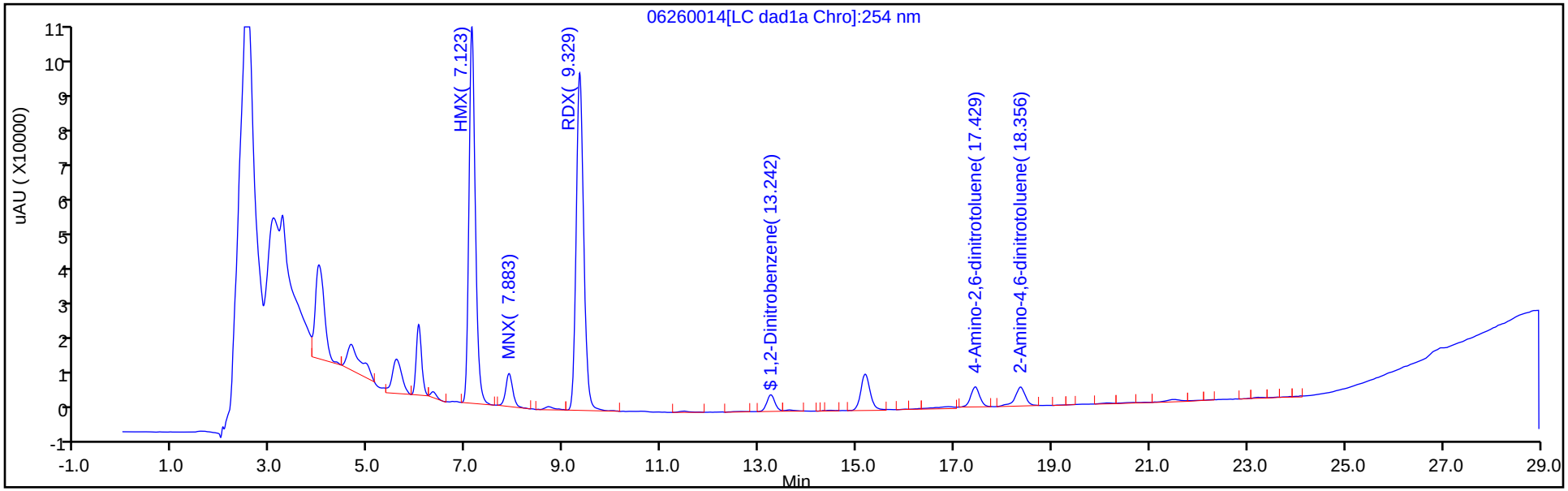
Processing Flags
E - Exceeded Maximum Amount
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 27-Jun-2020 15:27:58 Chrom Revision: 2.3 21-Jun-2020 18:30:46

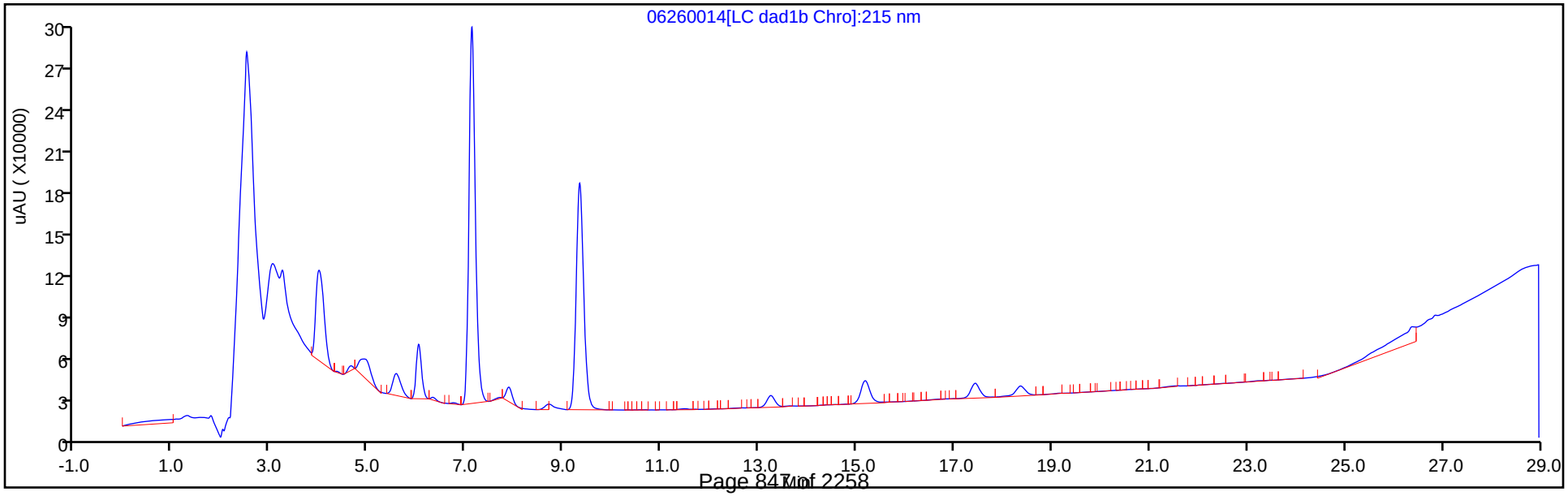
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260014.d				
Injection Date:	26-Jun-2020 22:39:44	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137736-A-4-A	Lab Sample ID:		Worklist Smp#:	14
Client ID:	G0123-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260014.D				
Lims ID:	280-137736-A-4-A				
Client ID:	G0123-20A				
Sample Type:	Client				
Inject. Date:	26-Jun-2020 22:39:44	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-4-A				
Misc. Info.:	280-0092796-014				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 15:27:55	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1036				
First Level Reviewer: zhangji		Date:	27-Jun-2020 11:55:48		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1799	89.93

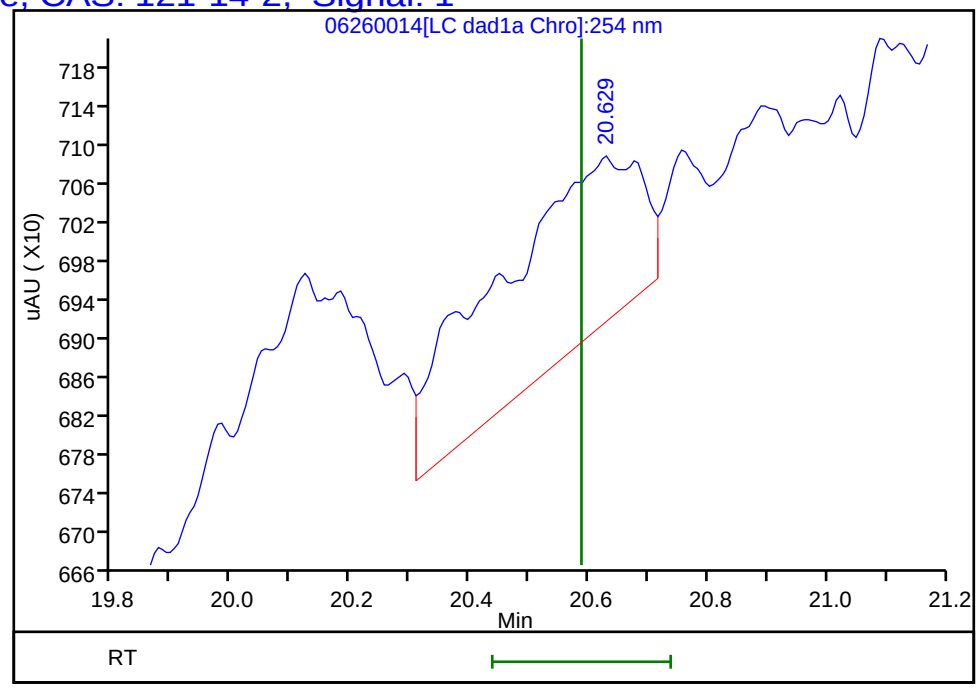
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260014.d				
Injection Date:	26-Jun-2020 22:39:44	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-4-A	Lab Sample ID:			
Client ID:	G0123-20A				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2, Signal: 1

RT: 20.63
Response: 3326
Amount: 0.005196



Reviewer: zhangji, 27-Jun-2020 11:55:48
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

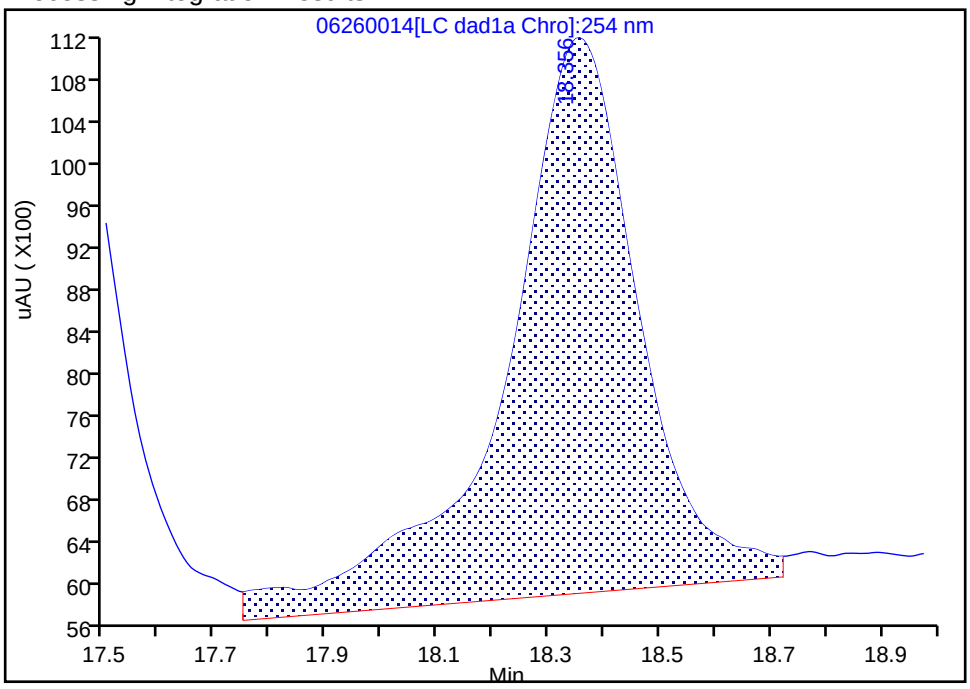
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260014.d				
Injection Date:	26-Jun-2020 22:39:44	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-4-A	Lab Sample ID:			
Client ID:	G0123-20A				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

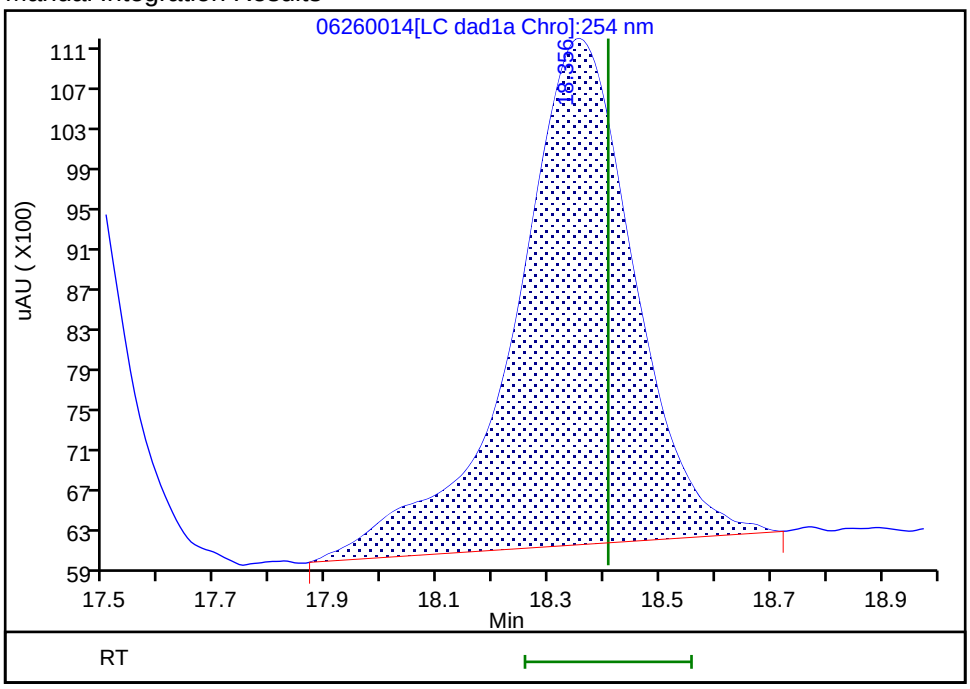
Processing Integration Results

RT: 18.36
Area: 88923
Amount: 0.191146
Amount Units: ug/ml



Manual Integration Results

RT: 18.36
Area: 75710
Amount: 0.162743
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:55:44

Audit Action: Manually Integrated Audit Reason: Baseline

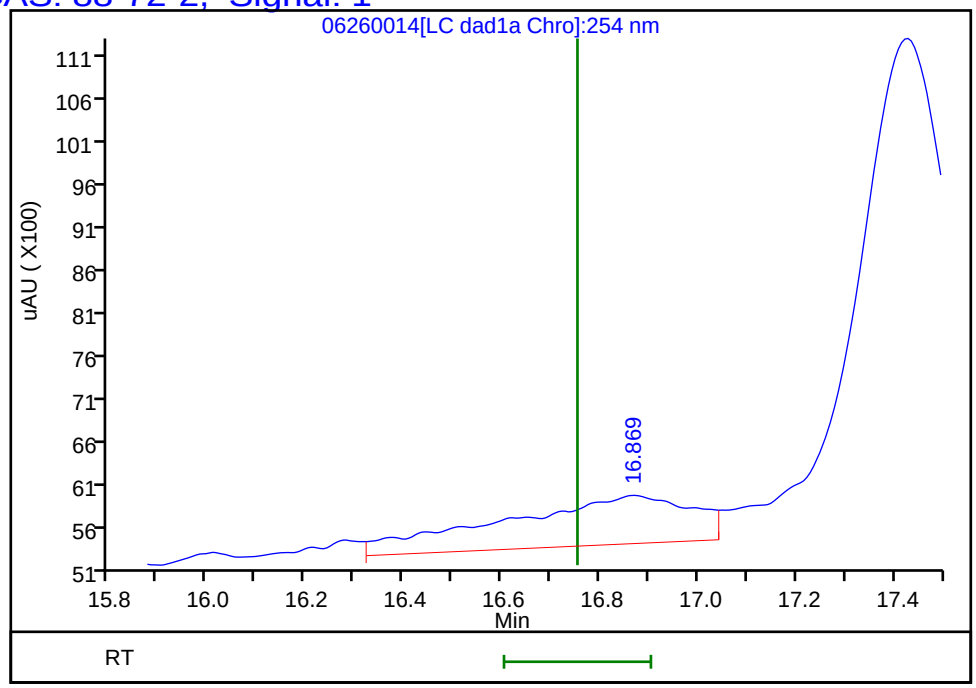
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260014.d				
Injection Date:	26-Jun-2020 22:39:44	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-4-A	Lab Sample ID:			
Client ID:	G0123-20A				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.87
Response: 15264
Amount: 0.055919



Reviewer: zhangji, 27-Jun-2020 11:55:48
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

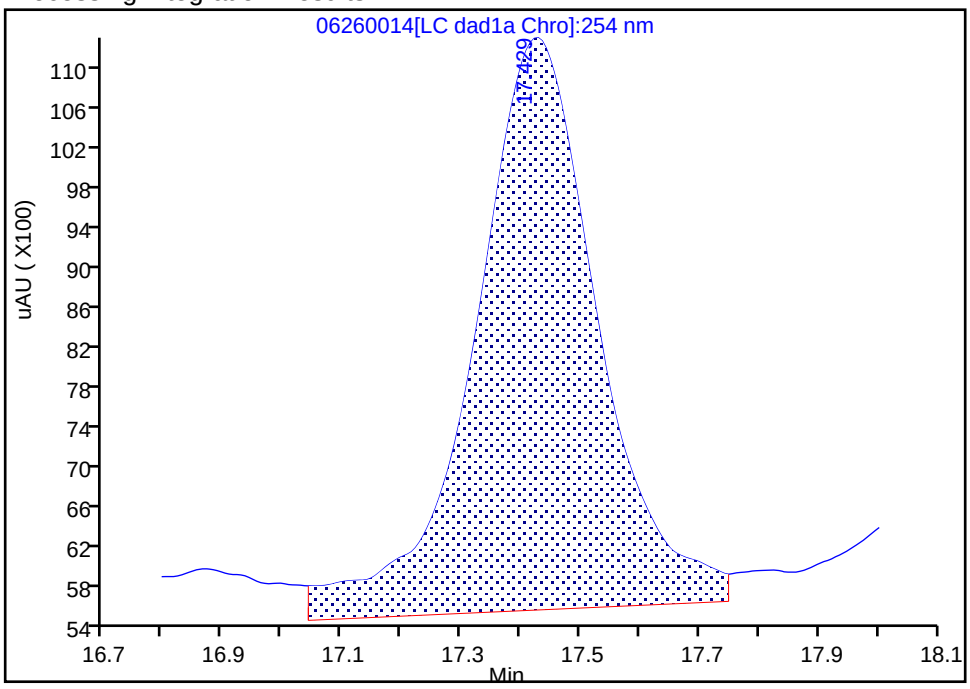
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260014.d				
Injection Date:	26-Jun-2020 22:39:44	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-4-A	Lab Sample ID:			
Client ID:	G0123-20A				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

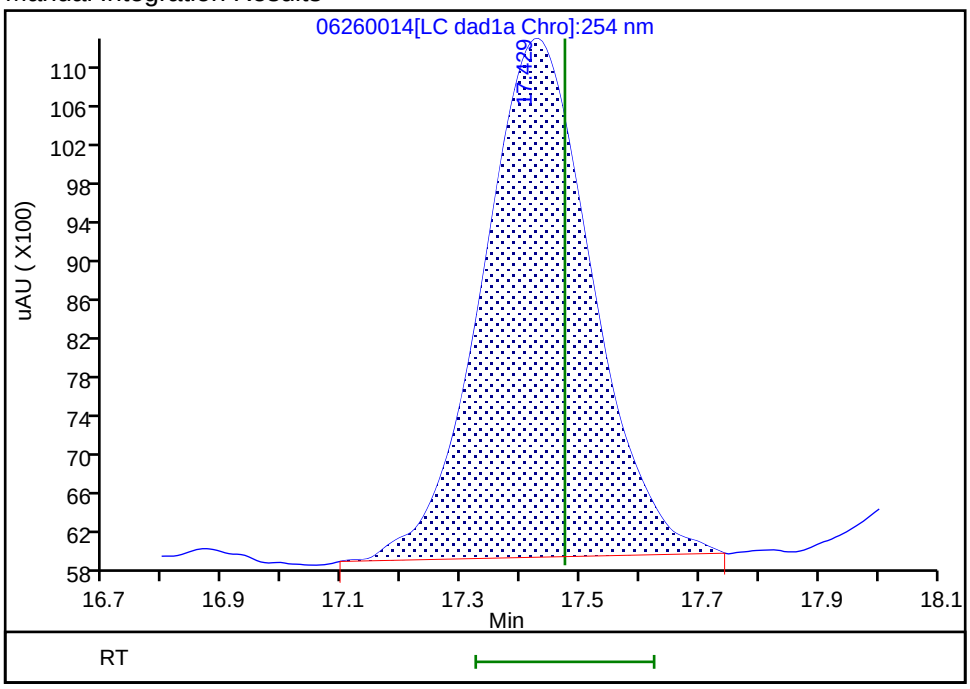
Processing Integration Results

RT: 17.43
Area: 82216
Amount: 0.238145
Amount Units: ug/ml



Manual Integration Results

RT: 17.43
Area: 68581
Amount: 0.198650
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:55:40

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0123-20A DL Lab Sample ID: 280-137736-4 DL

Matrix: Water Lab File ID: 06260010.D

Analysis Method: 8330A Date Collected: 06/16/2020 13:20

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 460.6(mL) Date Analyzed: 06/26/2020 18:21

Con. Extract Vol.: 5(mL) Dilution Factor: 20

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 500316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
2691-41-0	HMX	62	D M Q	4.6	4.3	1.9
121-82-4	RDX	48	D Q	4.6	4.3	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	125	D M Q	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\06260010.D
Lims ID: 280-137736-A-4-A
Client ID: G0123-20A
Sample Type: Client
Inject. Date: 26-Jun-2020 18:21:25 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 20.0000
Sample Info: 280-137736-A-4-A
Misc. Info.: 280-0092794-010
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 13:26:12 Calib Date: 26-Jun-2020 01:16:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 26-Jun-2020 18:57:38

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 HMX	1	6.708	6.710	-0.002	24493	0.2849	M
	6 MNX	1	7.382	7.384	-0.002	2264	0.0143	
	7 RDX	1	7.788	7.790	-0.002	25673	0.2202	
$	9 1,2-Dinitrobenzene	1	8.755	8.756	-0.001	1721	0.0125	M
	10 1,3,5-Trinitrobenzene	1		8.930			ND	
	11 1,3-Dinitrobenzene	1		9.583			ND	
	12 Nitrobenzene	1		9.963			ND	
	14 Tetryl	1		10.283			ND	U
	16 2,4,6-Trinitrotoluene	1		11.250			ND	
	17 4-Amino-2,6-dinitrotoluene	1	11.435	11.423	0.012	1777	0.0165	
	18 2-Amino-4,6-dinitrotoluene	1	11.715	11.716	-0.001	1186	0.005848	
	19 2,6-Dinitrotoluene	1		11.850			ND	
	20 2,4-Dinitrotoluene	1		12.050			ND	
	21 o-Nitrotoluene	1		12.870			ND	
	22 p-Nitrotoluene	1		13.310			ND	
	23 m-Nitrotoluene	1		13.896			ND	

QC Flag Legend

Review Flags
M - Manually Integrated
U - Marked Undetected

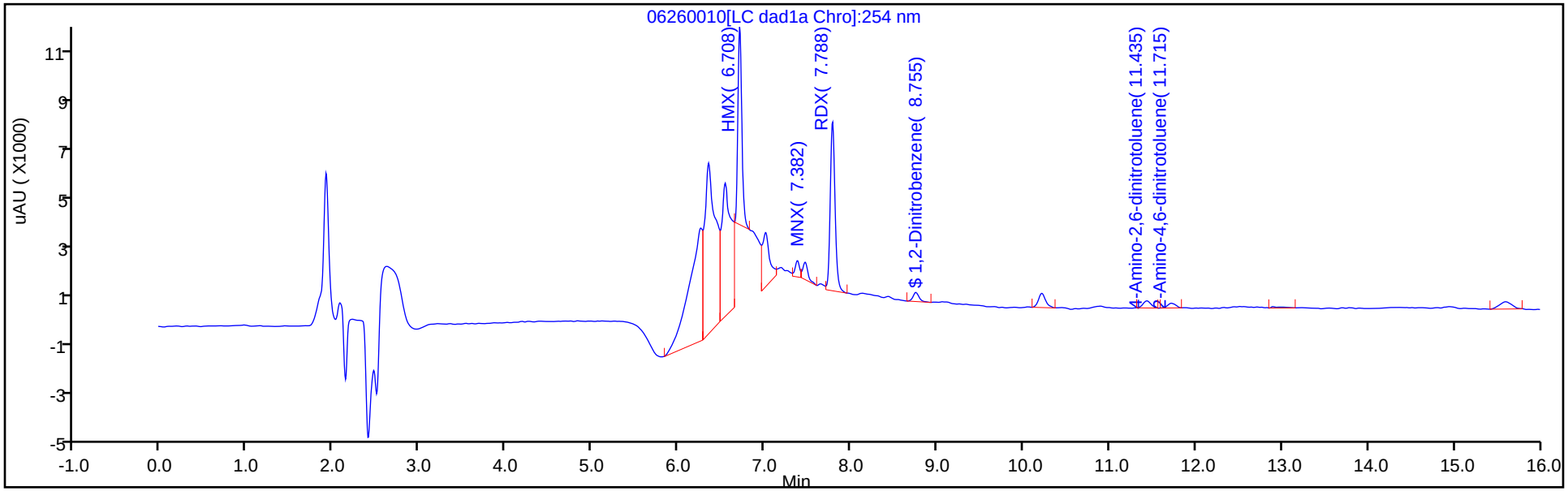
Report Date: 27-Jun-2020 13:26:12 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

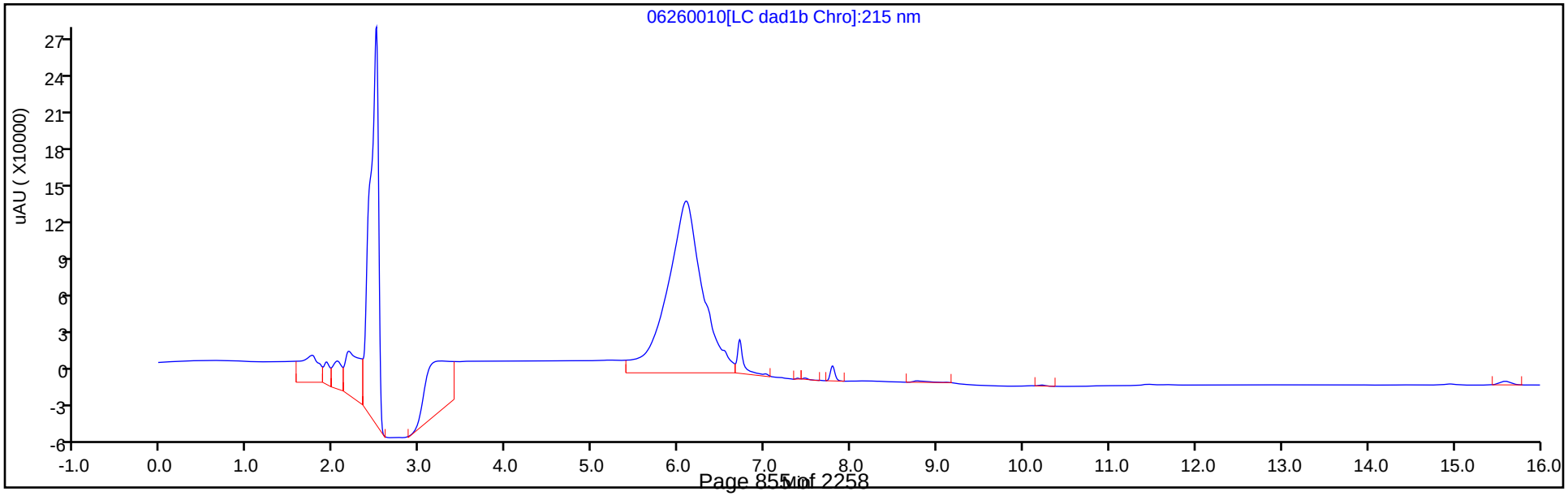
Data File: \\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260010.d

Injection Date:	26-Jun-2020 18:21:25	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4	Worklist Smp#:	10
Client ID:	G0123-20A				
Injection Vol:	100.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	10
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\06260010.D				
Lims ID:	280-137736-A-4-A				
Client ID:	G0123-20A				
Sample Type:	Client				
Inject. Date:	26-Jun-2020 18:21:25	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	20.0000		
Sample Info:	280-137736-A-4-A				
Misc. Info.:	280-0092794-010				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 13:26:12	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1036				
First Level Reviewer: zhangji		Date:	26-Jun-2020 18:57:38		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.0125	6.23

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

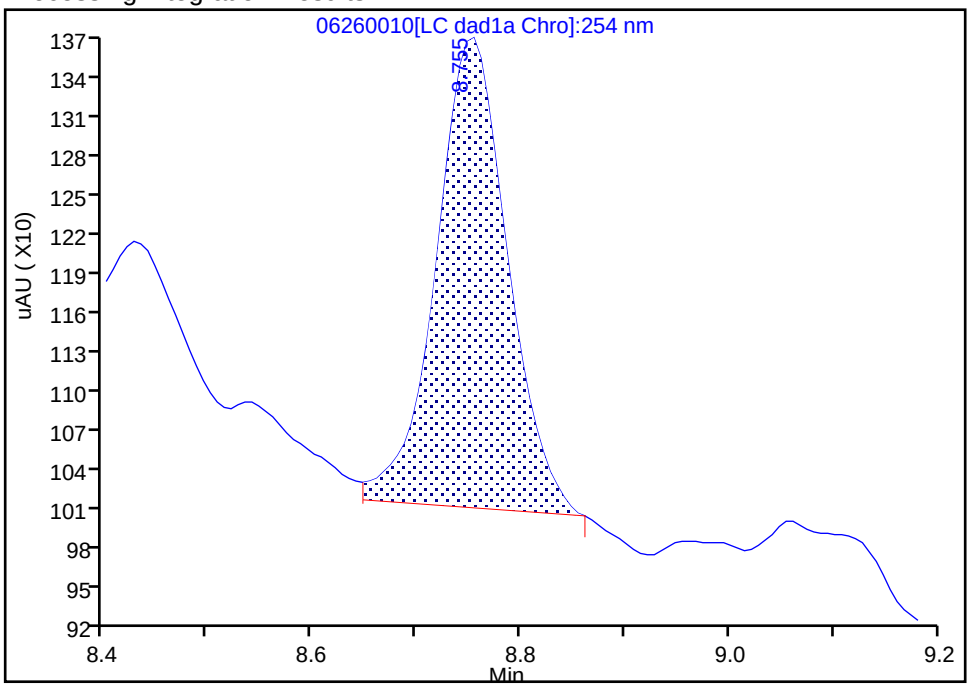
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260010.d				
Injection Date:	26-Jun-2020 18:21:25	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4		
Client ID:	G0123-20A				
Operator ID:	JZ	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	20.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

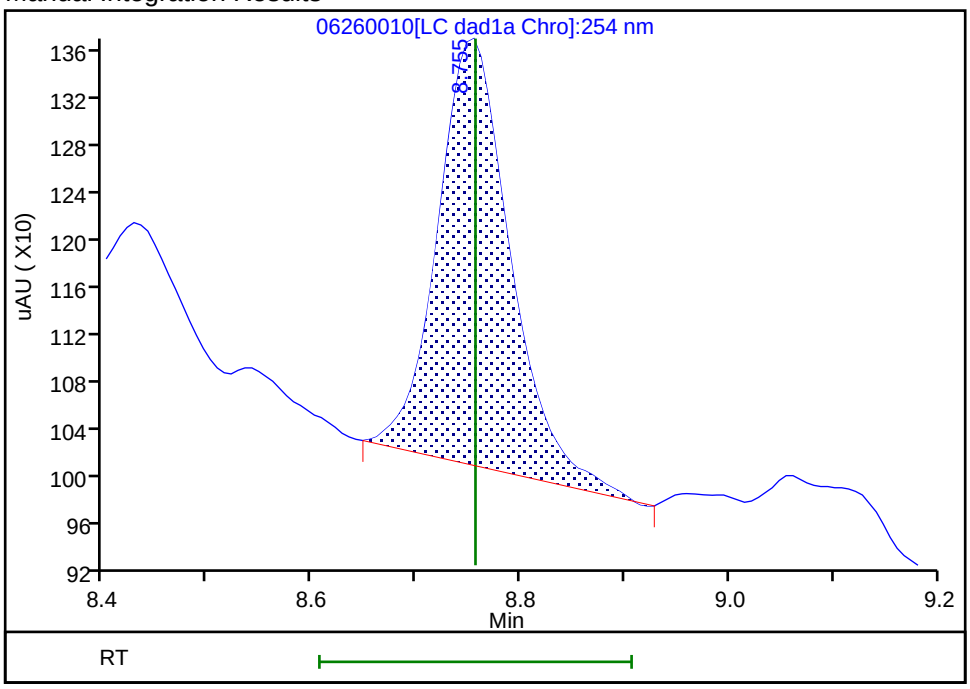
Processing Integration Results

RT: 8.75
Area: 1678
Amount: 0.012141
Amount Units: ug/mL



Manual Integration Results

RT: 8.75
Area: 1721
Amount: 0.012452
Amount Units: ug/mL



Reviewer: zhangji, 26-Jun-2020 18:57:25

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

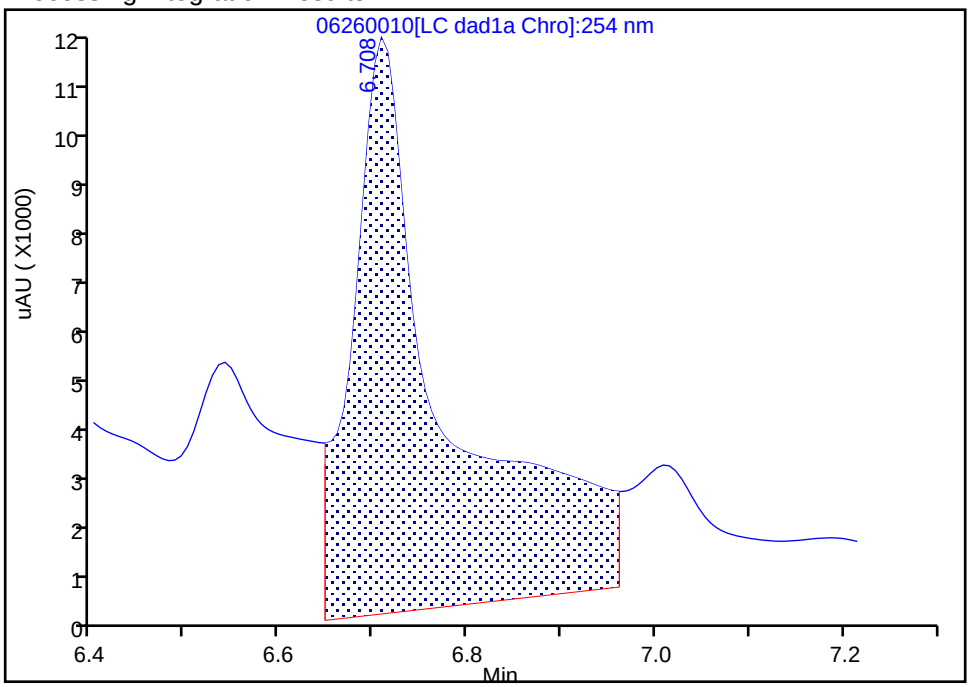
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260010.d				
Injection Date:	26-Jun-2020 18:21:25	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4		
Client ID:	G0123-20A				
Operator ID:	JZ	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	20.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

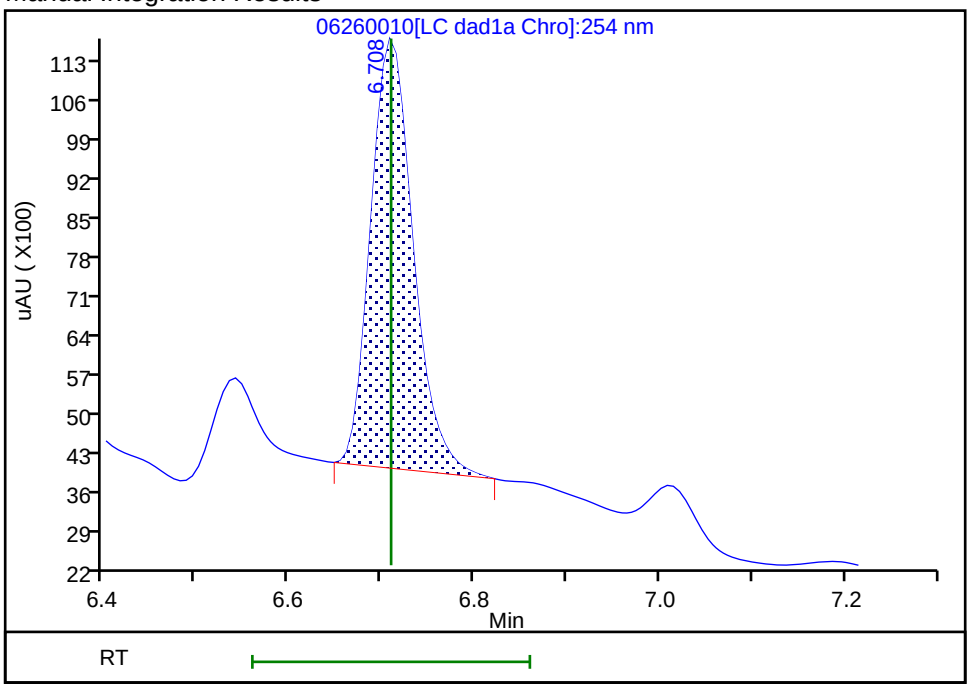
Processing Integration Results

RT: 6.71
Area: 74832
Amount: 0.870522
Amount Units: ug/mL



Manual Integration Results

RT: 6.71
Area: 24493
Amount: 0.284928
Amount Units: ug/mL



Reviewer: zhangji, 26-Jun-2020 18:57:15

Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

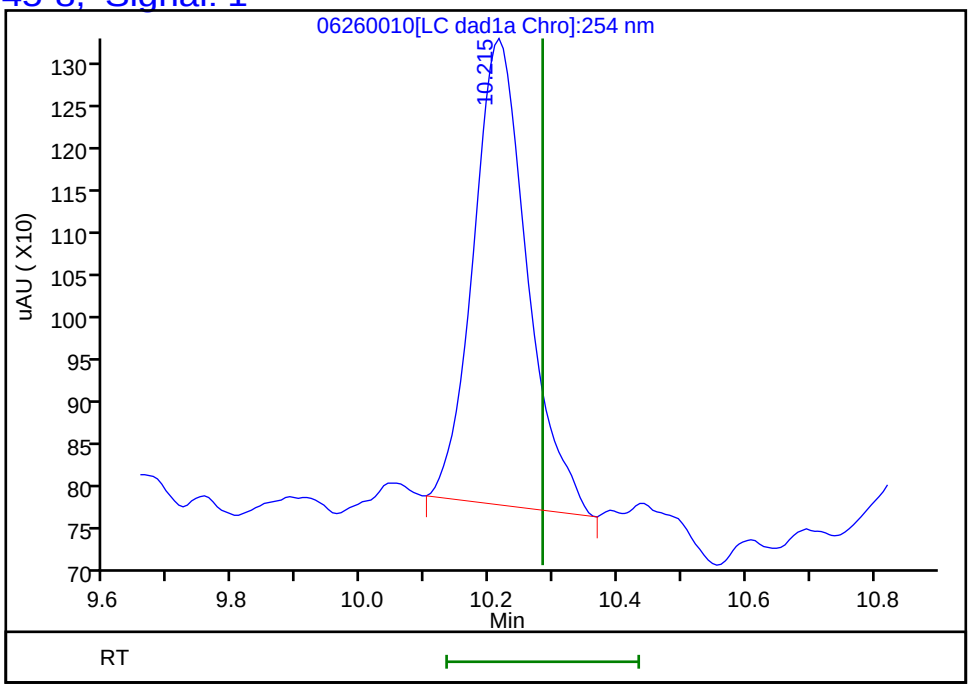
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260010.d

Injection Date:	26-Jun-2020 18:21:25	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4		
Client ID:	G0123-20A				
Operator ID:	JZ	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	20.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.21
Response: 3223
Amount: 0.018206



Reviewer: zhangji, 26-Jun-2020 18:57:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0123-20A DL Lab Sample ID: 280-137736-4 DL

Matrix: Water Lab File ID: 06260015.D

Analysis Method: 8330A Date Collected: 06/16/2020 13:20

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 460.6(mL) Date Analyzed: 06/26/2020 23:14

Con. Extract Vol.: 5(mL) Dilution Factor: 20

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

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

Analysis Batch No.: 500326 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	105	*M D*	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260015.D
Lims ID: 280-137736-A-4-A
Client ID: G0123-20A
Sample Type: Client
Inject. Date: 26-Jun-2020 23:14:43 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 20.0000
Sample Info: 280-137736-A-4-A
Misc. Info.: 280-0092796-015
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 15:27:55 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 27-Jun-2020 11:56:54

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
	6 HMX	1	7.135	7.154	-0.019	44275	0.2200	M
	7 MNX	1	7.908	7.919	-0.011	5129	-0.001048	7M
	8 RDX	1	9.348	9.367	-0.019	46727	0.1912	M
	9 Nitrobenzene	1		12.274			ND	
$	10 1,2-Dinitrobenzene	1	13.248	13.281	-0.033	4753	0.0105	M
	12 1,3-Dinitrobenzene	1		15.814			ND	
	14 o-Nitrotoluene	1		16.754			ND	
	15 p-Nitrotoluene	1		17.034			ND	U
	16 4-Amino-2,6-dinitrotoluene	1		17.474			ND	U
	17 m-Nitrotoluene	1		17.967			ND	U
	18 2-Amino-4,6-dinitrotoluene	1		18.407			ND	U
	19 1,3,5-Trinitrobenzene	1		19.147			ND	
	20 2,6-Dinitrotoluene	1		20.074			ND	
	21 2,4-Dinitrotoluene	1		20.587			ND	
	22 Tetryl	1		23.887			ND	U
	23 2,4,6-Trinitrotoluene	1		24.907			ND	

QC Flag Legend

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

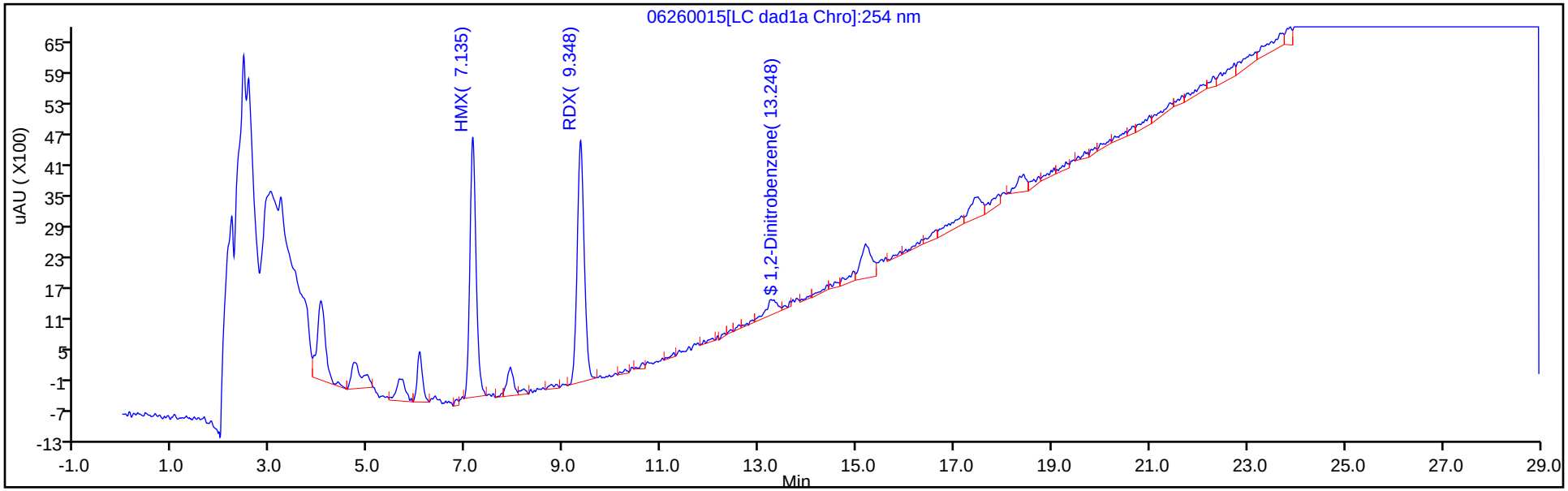
Report Date: 27-Jun-2020 15:27:58 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

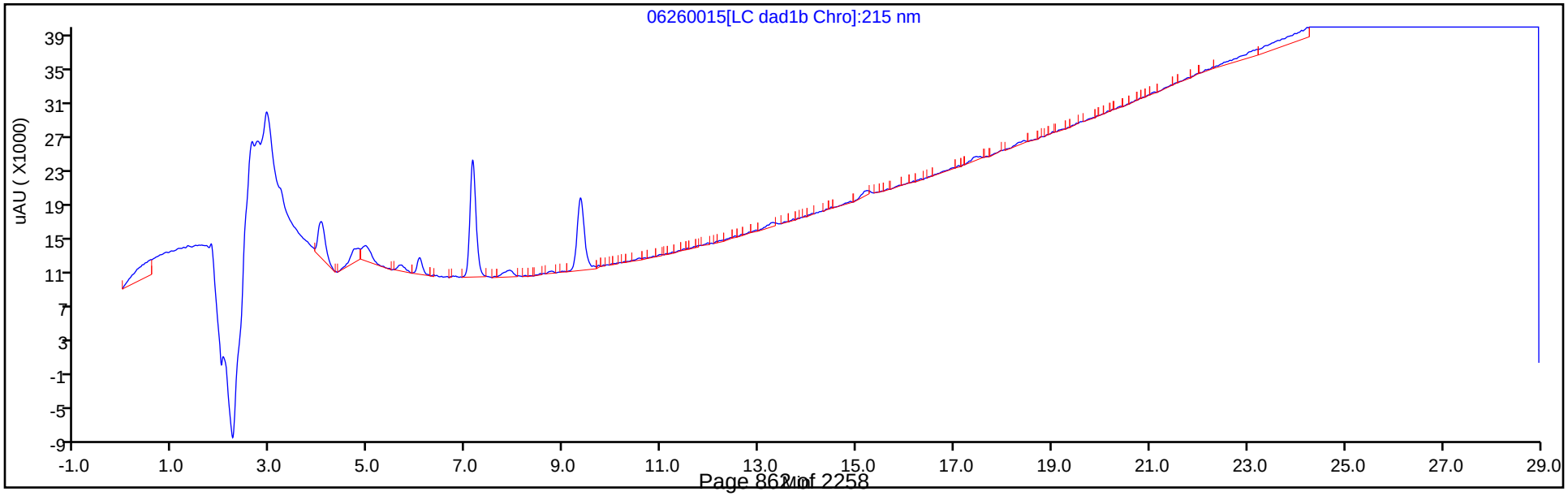
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260015.d

Injection Date:	26-Jun-2020 23:14:43	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4	Worklist Smp#:	15
Client ID:	G0123-20A				
Injection Vol:	100.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	15
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260015.D				
Lims ID:	280-137736-A-4-A				
Client ID:	G0123-20A				
Sample Type:	Client				
Inject. Date:	26-Jun-2020 23:14:43	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	20.0000		
Sample Info:	280-137736-A-4-A				
Misc. Info.:	280-0092796-015				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 15:27:55	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1036				
First Level Reviewer: zhangji		Date:	27-Jun-2020 11:56:54		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.0105	5.26

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

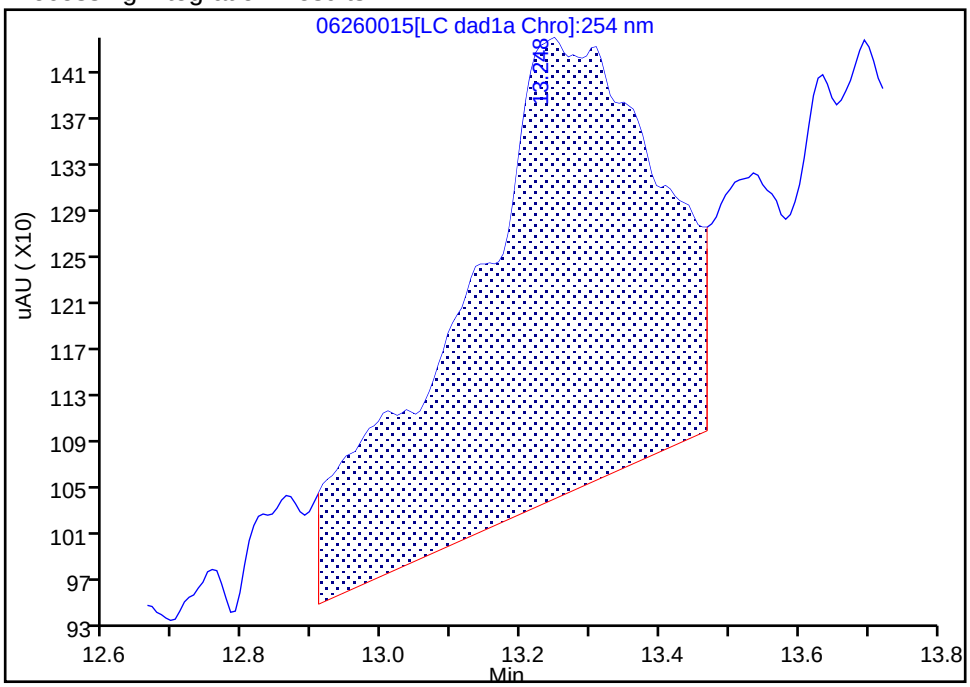
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260015.d				
Injection Date:	26-Jun-2020 23:14:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4		
Client ID:	G0123-20A				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	20.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

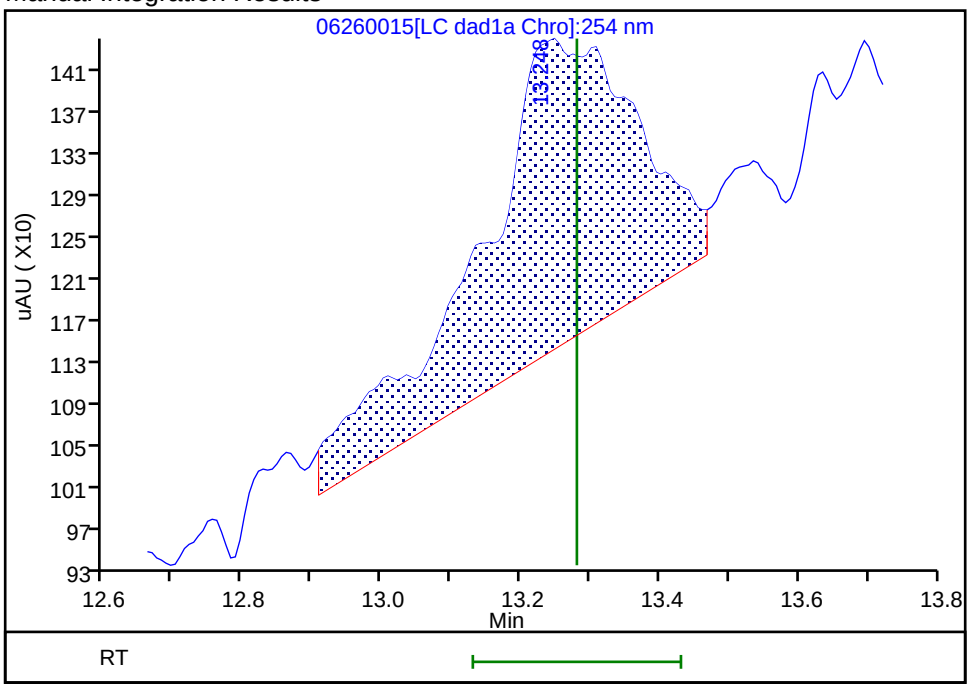
Processing Integration Results

RT: 13.25
Area: 7878
Amount: 0.021783
Amount Units: ug/ml



Manual Integration Results

RT: 13.25
Area: 4753
Amount: 0.010511
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:56:52
Audit Action: Assigned New Baseline Audit Reason: Baseline

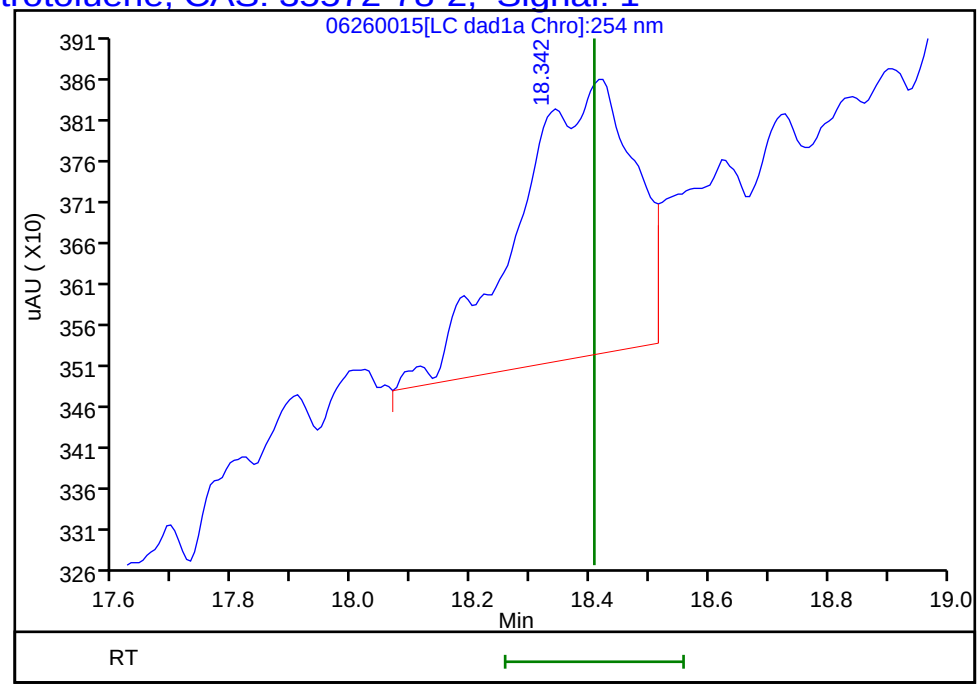
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260015.d				
Injection Date:	26-Jun-2020 23:14:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4		
Client ID:	G0123-20A				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	20.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2, Signal: 1

RT: 18.34
Response: 4571
Amount: 0.009826



Reviewer: zhangji, 27-Jun-2020 11:56:54
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

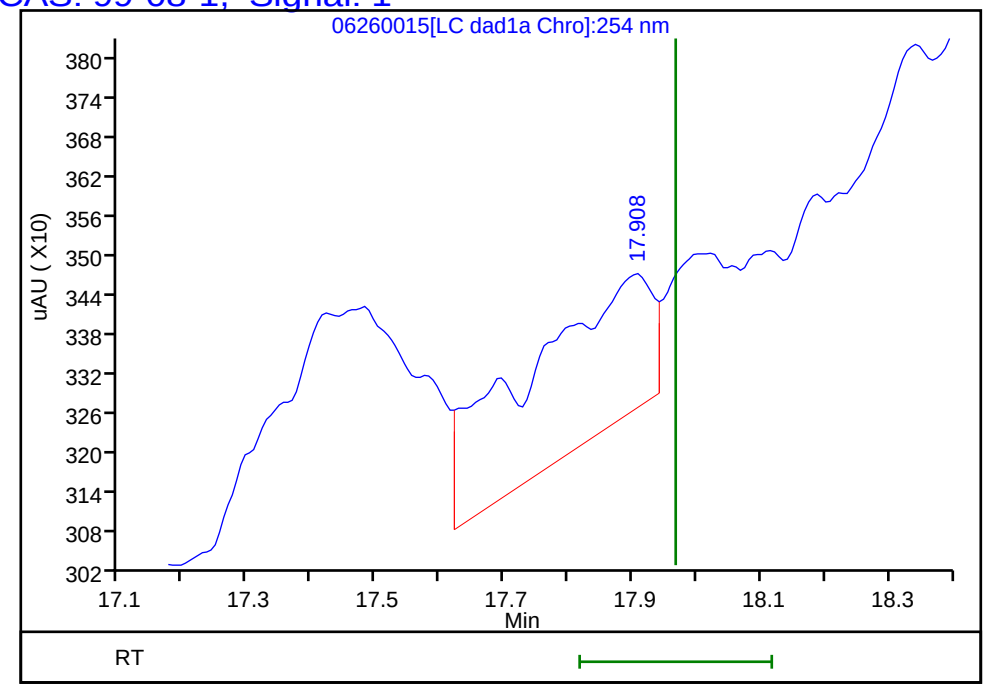
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260015.d				
Injection Date:	26-Jun-2020 23:14:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4		
Client ID:	G0123-20A				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	20.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 17.91
Response: 3367
Amount: 0.011286



Reviewer: zhangji, 27-Jun-2020 11:56:54
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

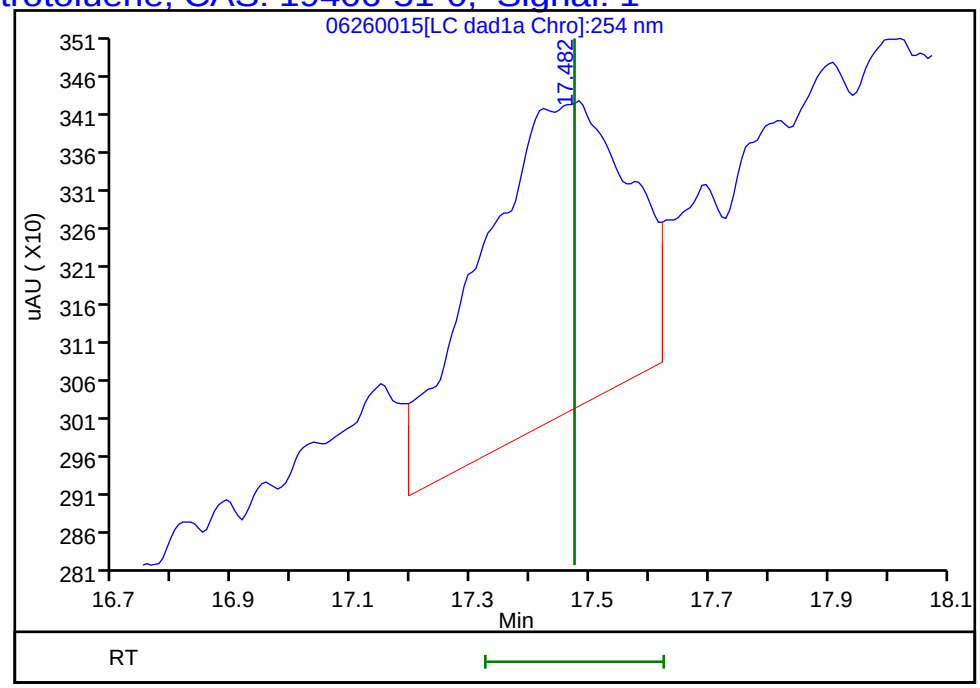
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260015.d

Injection Date:	26-Jun-2020 23:14:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4		
Client ID:	G0123-20A				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	20.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0, Signal: 1

RT: 17.48
Response: 7160
Amount: 0.020740



Reviewer: zhangji, 27-Jun-2020 11:56:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

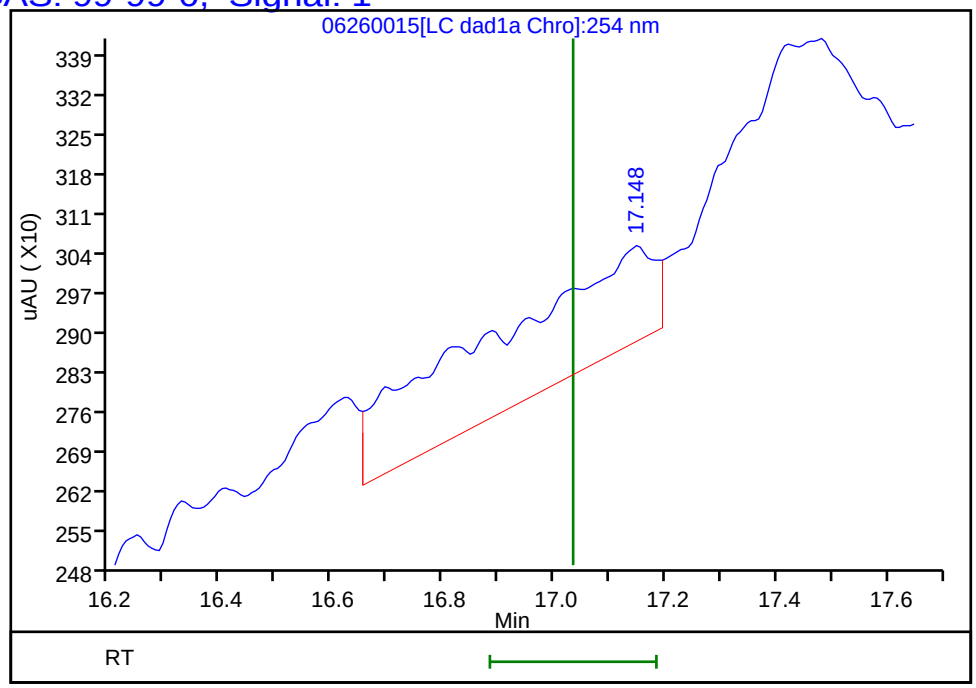
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260015.d				
Injection Date:	26-Jun-2020 23:14:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4		
Client ID:	G0123-20A				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	20.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

15 p-Nitrotoluene, CAS: 99-99-0, Signal: 1

RT: 17.15
Response: 4612
Amount: 0.019146



Reviewer: zhangji, 27-Jun-2020 11:56:54
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

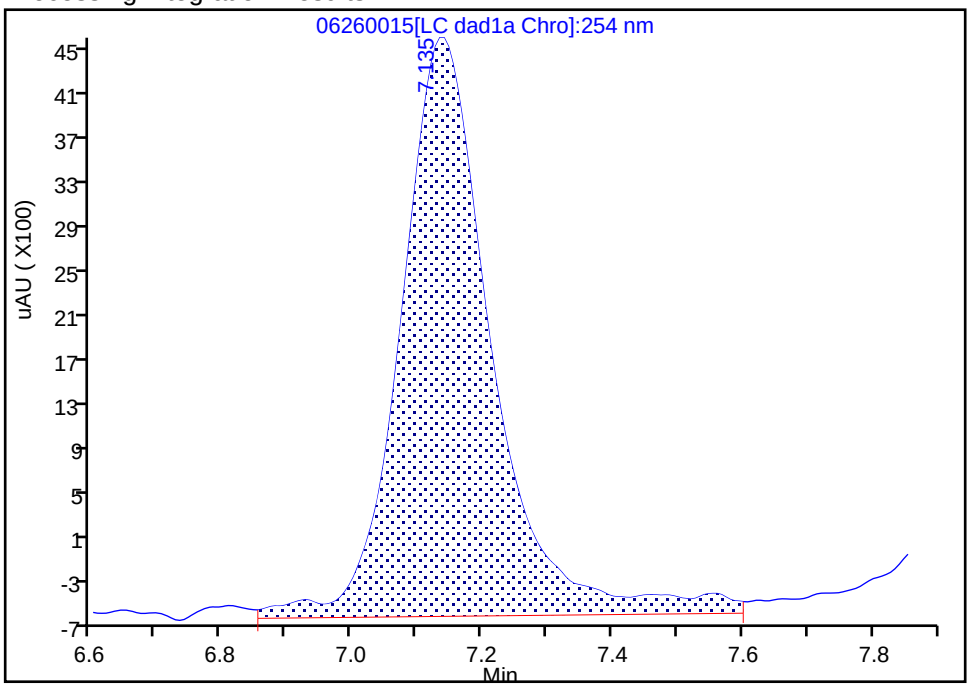
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260015.d				
Injection Date:	26-Jun-2020 23:14:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4		
Client ID:	G0123-20A				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	20.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

6 HMX, CAS: 2691-41-0

Signal: 1

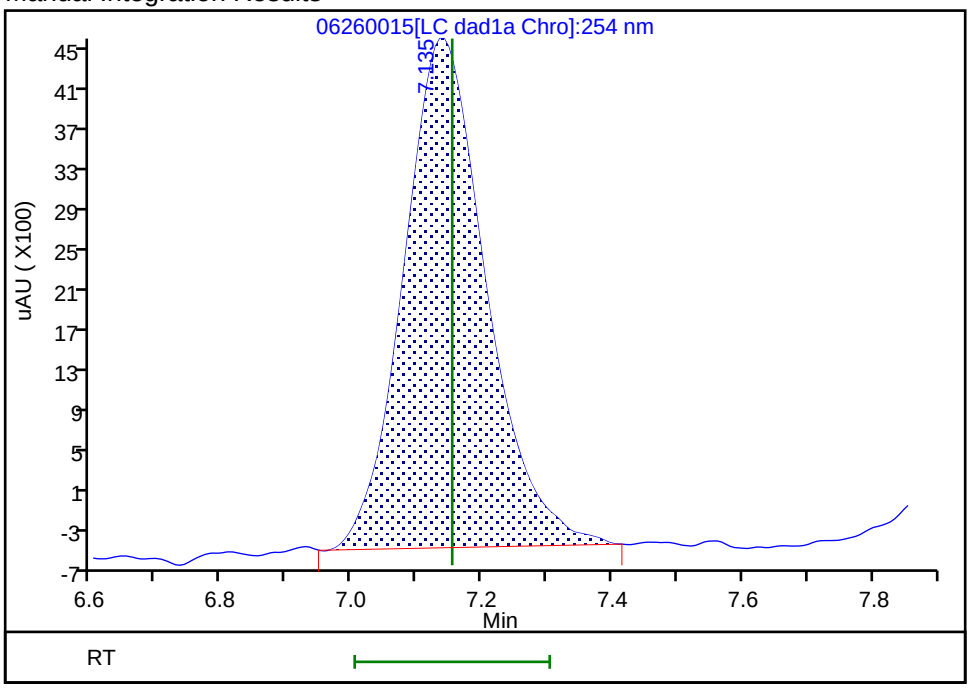
Processing Integration Results

RT: 7.14
Area: 50580
Amount: 0.255665
Amount Units: ug/ml



Manual Integration Results

RT: 7.14
Area: 44275
Amount: 0.220046
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:56:14

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

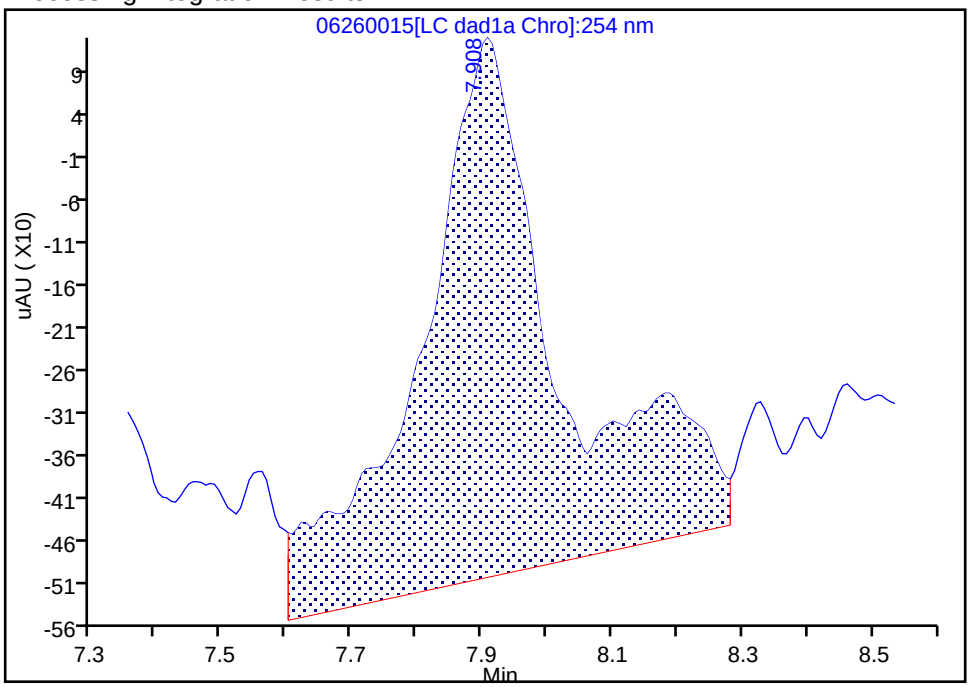
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260015.d				
Injection Date:	26-Jun-2020 23:14:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4		
Client ID:	G0123-20A				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	20.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

7 MNX, CAS: 5755-27-1

Signal: 1

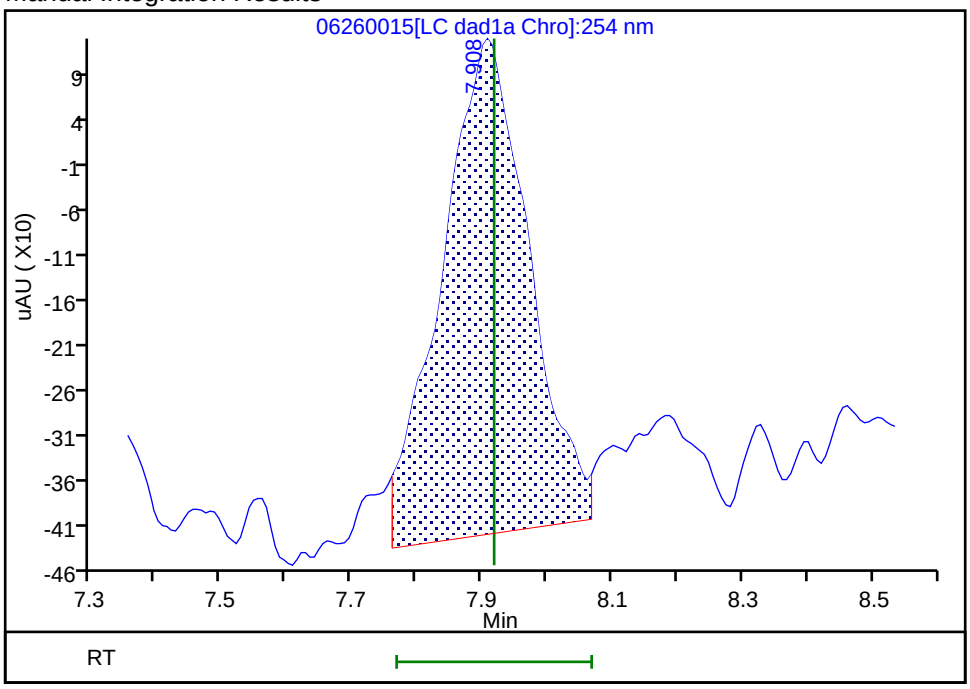
Processing Integration Results

RT: 7.91
Area: 9654
Amount: 0.015906
Amount Units: ug/ml



Manual Integration Results

RT: 7.91
Area: 5129
Amount: -0.001048
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:56:28

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

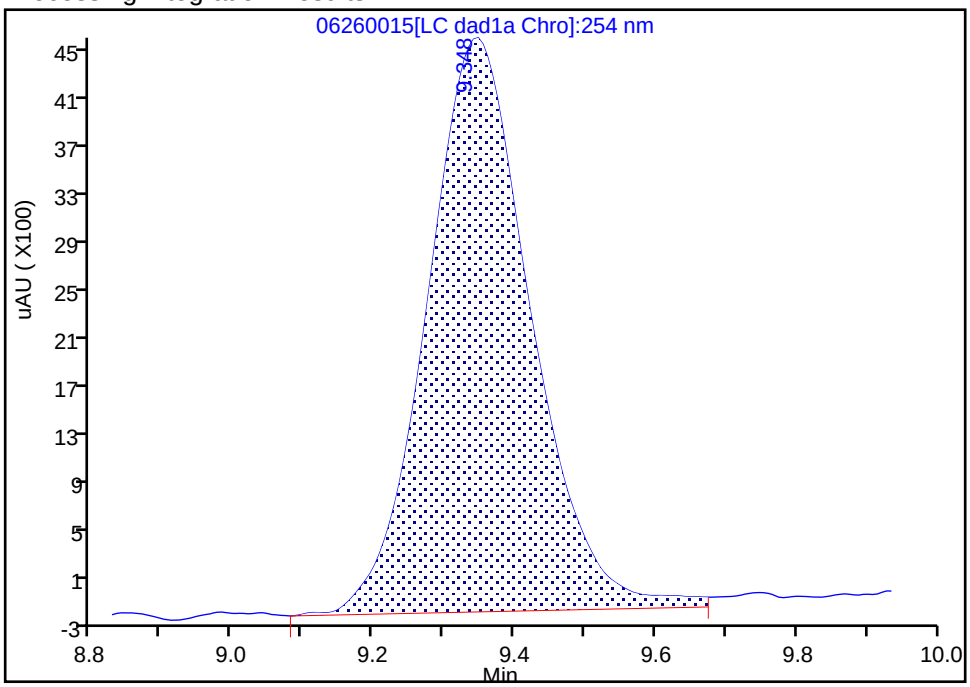
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260015.d				
Injection Date:	26-Jun-2020 23:14:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4		
Client ID:	G0123-20A				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	20.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

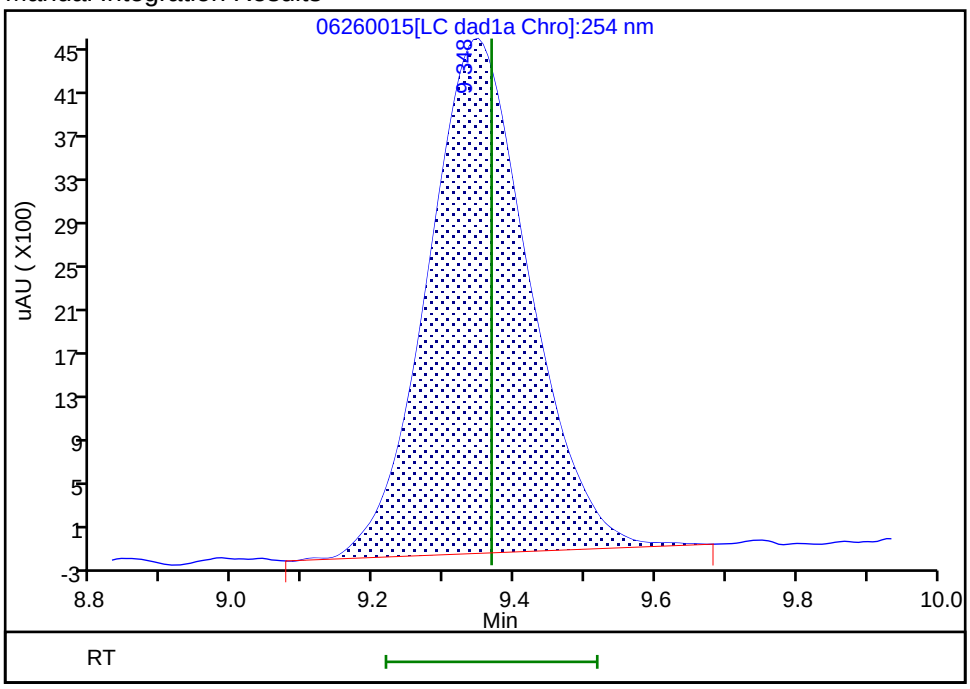
Processing Integration Results

RT: 9.35
Area: 48223
Amount: 0.197344
Amount Units: ug/ml



Manual Integration Results

RT: 9.35
Area: 46727
Amount: 0.191222
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:56:38

Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

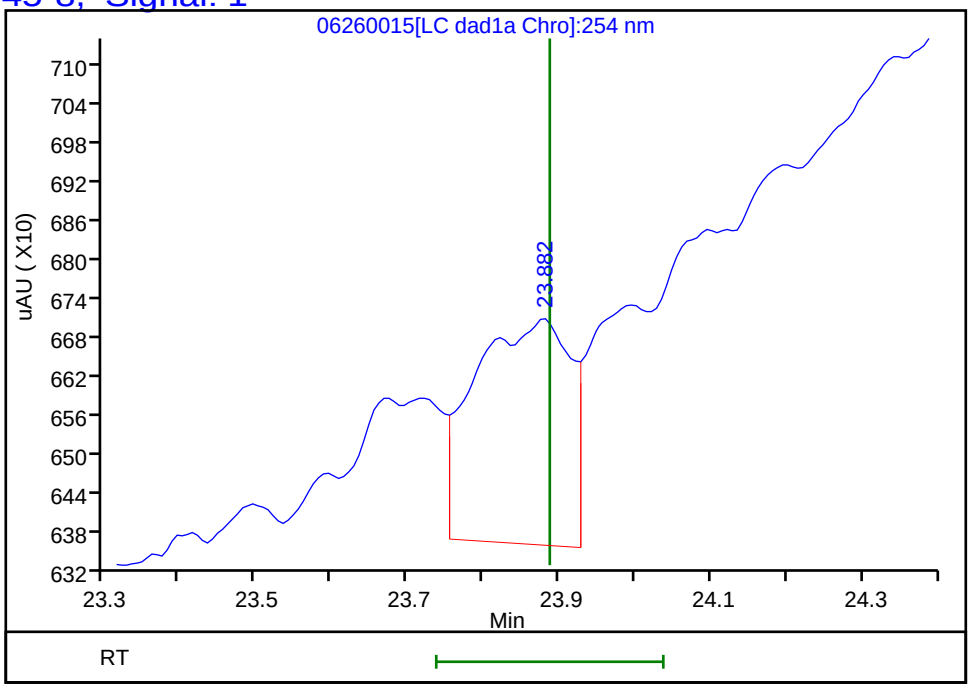
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260015.d

Injection Date:	26-Jun-2020 23:14:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-4-A	Lab Sample ID:	280-137736-4		
Client ID:	G0123-20A				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	20.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

22 Tetryl, CAS: 479-45-8, Signal: 1

RT: 23.88
Response: 3032
Amount: 0.008224



Reviewer: zhangji, 27-Jun-2020 11:56:54
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0122-20A Lab Sample ID: 280-137736-5

Matrix: Water Lab File ID: 06240017.D

Analysis Method: 8330A Date Collected: 06/16/2020 11:55

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 473(mL) Date Analyzed: 06/24/2020 20:06

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499988 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	2.4	M	0.22	0.21	0.089
99-65-0	1,3-Dinitrobenzene	0.11	U	0.12	0.11	0.039
606-20-2	2,6-Dinitrotoluene	0.085	U	0.11	0.085	0.042
35572-78-2	2-Amino-4,6-dinitrotoluene	0.11	U M	0.12	0.11	0.054
88-72-2	2-Nitrotoluene	0.21	U	0.22	0.21	0.090
99-08-1	3-Nitrotoluene	0.42	U M	0.42	0.42	0.21
99-99-0	4-Nitrotoluene	0.42	U	0.43	0.42	0.11
2691-41-0	HMX	7.3	M	0.22	0.21	0.093
5755-27-1	MNX	0.36	J M J1	2.1	0.42	0.16
98-95-3	Nitrobenzene	0.21	U M	0.22	0.21	0.096
121-82-4	RDX	12	M	0.22	0.21	0.054
479-45-8	Tetryl	0.11	U M	0.12	0.11	0.034

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	98	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240017.D
Lims ID: 280-137736-A-5-A
Client ID: G0122-20A
Sample Type: Client
Inject. Date: 24-Jun-2020 20:06:06 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-5-A
Misc. Info.: 280-0092716-017
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:07 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 24-Jun-2020 20:31:28

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1	6.712	6.712	0.000	59134	0.6879	M
6 MNX	1	7.379	7.384	-0.005	5341	0.0337	M
7 RDX	1	7.785	7.785	0.000	131877	1.13	M
$ 9 1,2-Dinitrobenzene	1	8.745	8.738	0.007	27142	0.1964	M
10 1,3,5-Trinitrobenzene	1	8.925	8.918	0.007	52685	0.2288	M
11 1,3-Dinitrobenzene	1		9.565			ND	
12 Nitrobenzene	1		9.945			ND	U
14 Tetryl	1		10.252			ND	U
16 2,4,6-Trinitrotoluene	1	11.205	11.225	-0.020	4900	0.0240	M
17 4-Amino-2,6-dinitrotoluene	1	11.365	11.385	-0.020	4822	0.0336	M
18 2-Amino-4,6-dinitrotoluene	1		11.678			ND	MU
19 2,6-Dinitrotoluene	1		11.818			ND	
20 2,4-Dinitrotoluene	1	12.005	12.018	-0.013	1198	0.003946	
21 o-Nitrotoluene	1		12.845			ND	
22 p-Nitrotoluene	1		13.272			ND	
23 m-Nitrotoluene	1		13.865			ND	U

QC Flag Legend

Review Flags
M - Manually Integrated
U - Marked Undetected

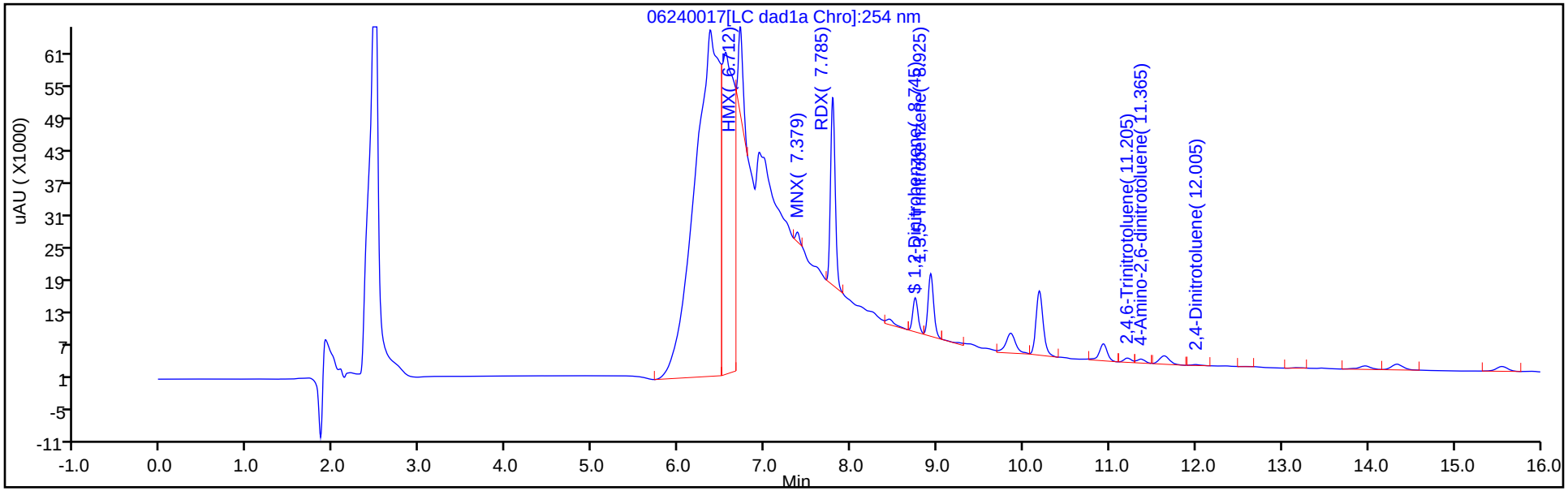
Report Date: 25-Jun-2020 21:10:13 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

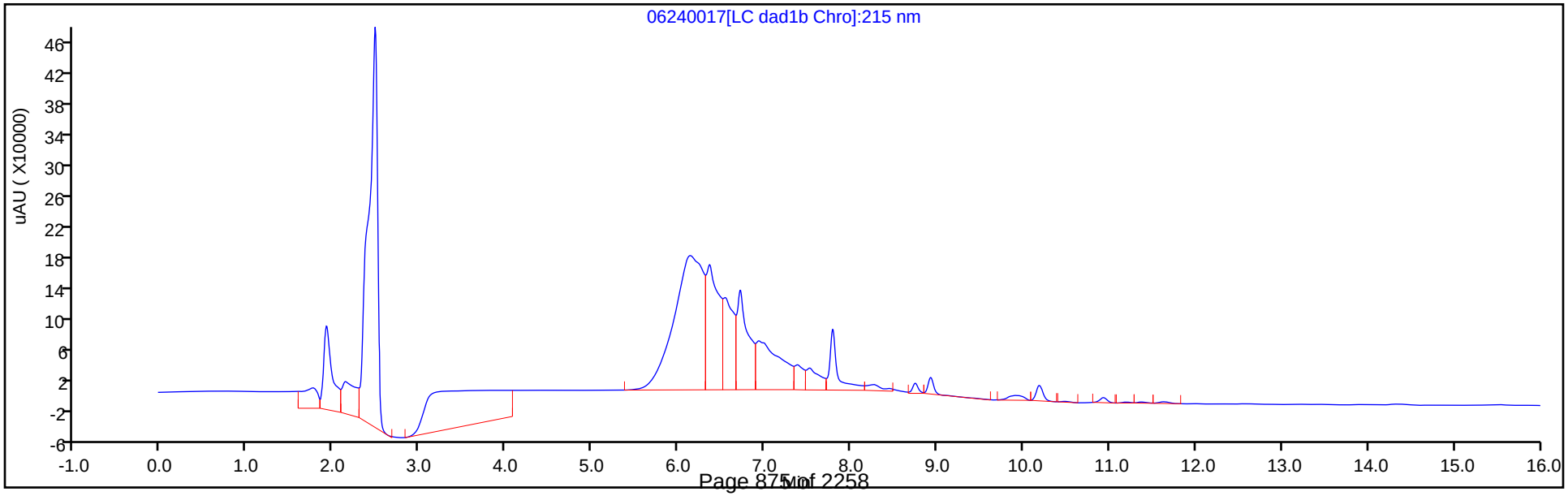
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240017.d

Injection Date:	24-Jun-2020 20:06:06	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-A-5-A	Lab Sample ID:	280-137736-5	Worklist Smp#:	17
Client ID:	G0122-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240017.D				
Lims ID:	280-137736-A-5-A				
Client ID:	G0122-20A				
Sample Type:	Client				
Inject. Date:	24-Jun-2020 20:06:06	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-5-A				
Misc. Info.:	280-0092716-017				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	25-Jun-2020 21:10:07	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1063				

First Level Reviewer: zhangji Date: 24-Jun-2020 20:31:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1964	98.19

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

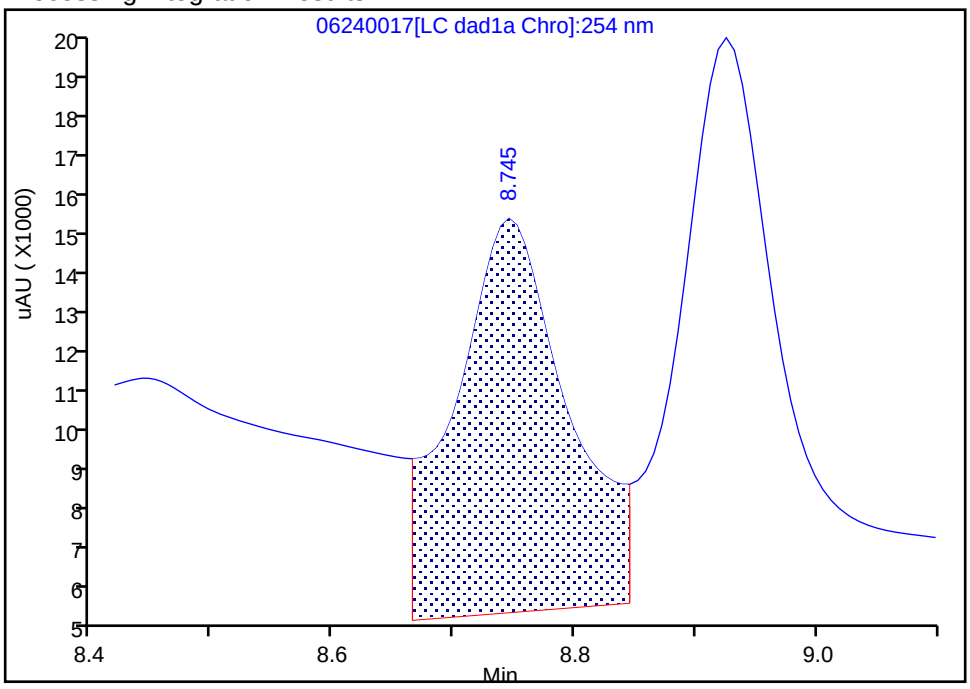
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240017.d				
Injection Date:	24-Jun-2020 20:06:06	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-5-A	Lab Sample ID:	280-137736-5		
Client ID:	G0122-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

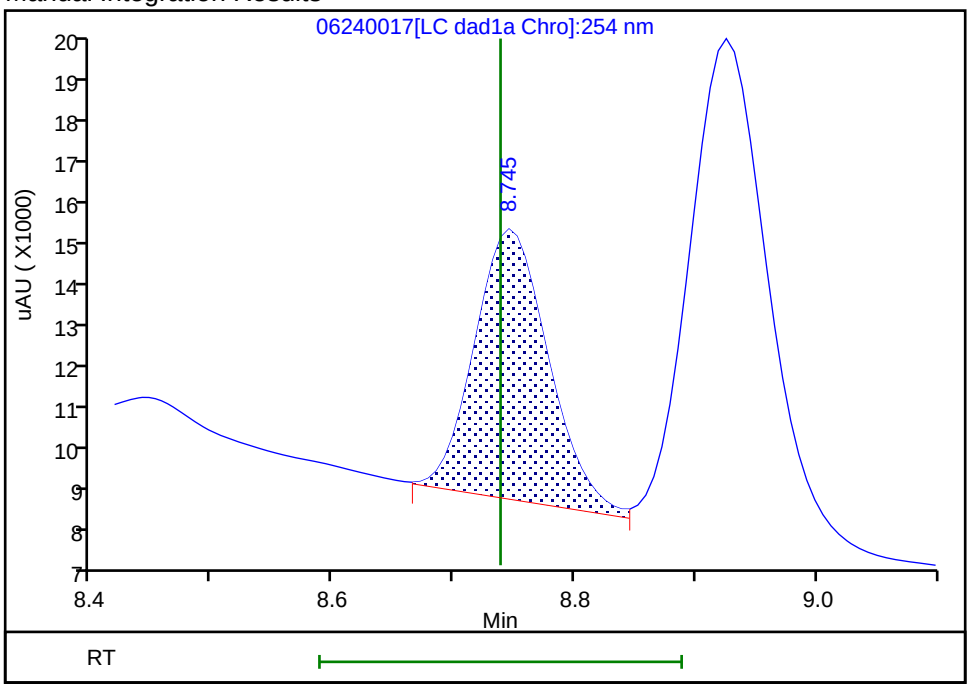
Processing Integration Results

RT: 8.75
Area: 63409
Amount: 0.458780
Amount Units: ug/mL



Manual Integration Results

RT: 8.75
Area: 27142
Amount: 0.196379
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 20:30:41
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

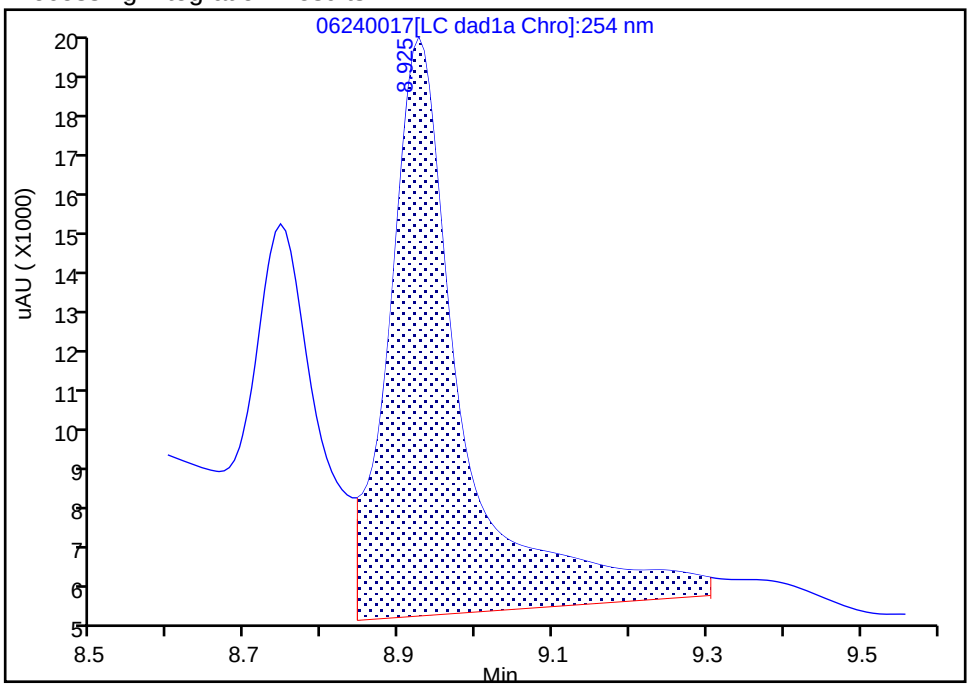
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240017.d				
Injection Date:	24-Jun-2020 20:06:06	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-5-A	Lab Sample ID:	280-137736-5		
Client ID:	G0122-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

10 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

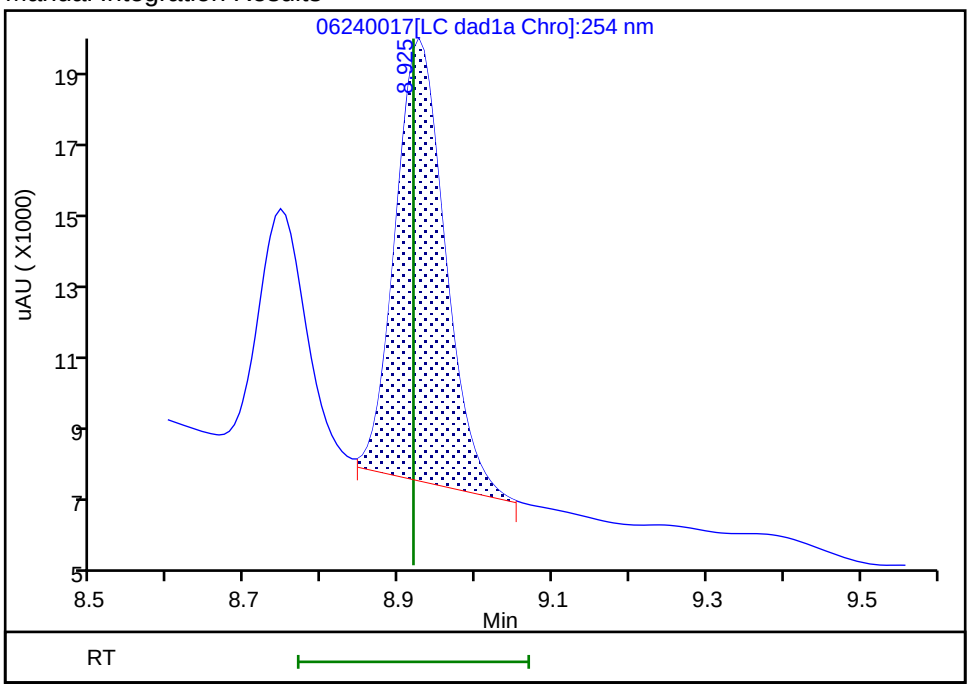
Processing Integration Results

RT: 8.93
Area: 93280
Amount: 0.405021
Amount Units: ug/mL



Manual Integration Results

RT: 8.93
Area: 52685
Amount: 0.228758
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 20:30:45

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

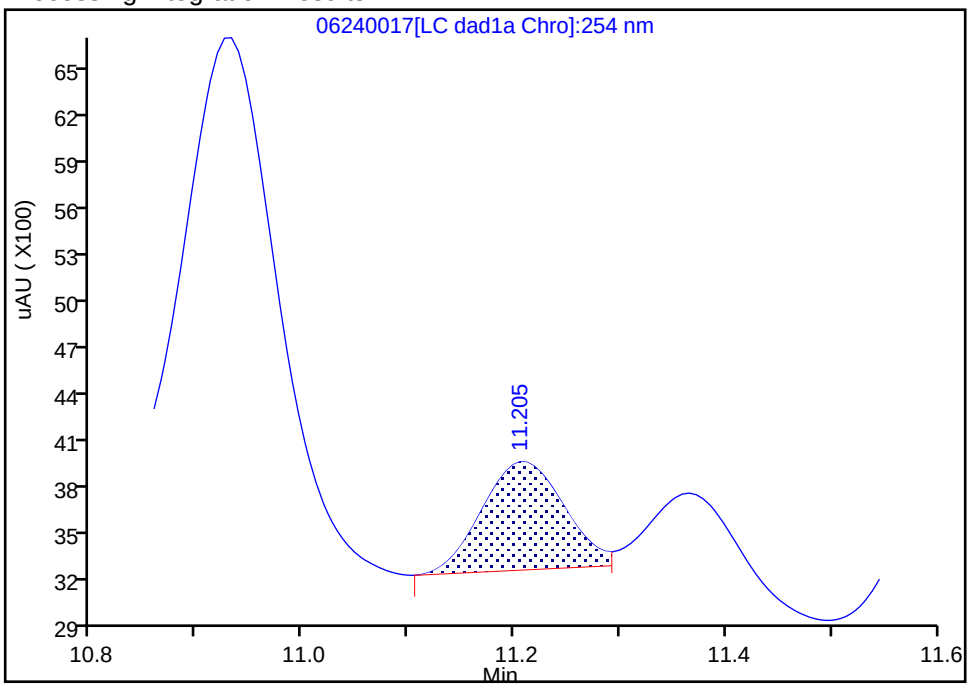
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240017.d				
Injection Date:	24-Jun-2020 20:06:06	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-5-A	Lab Sample ID:	280-137736-5		
Client ID:	G0122-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

16 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

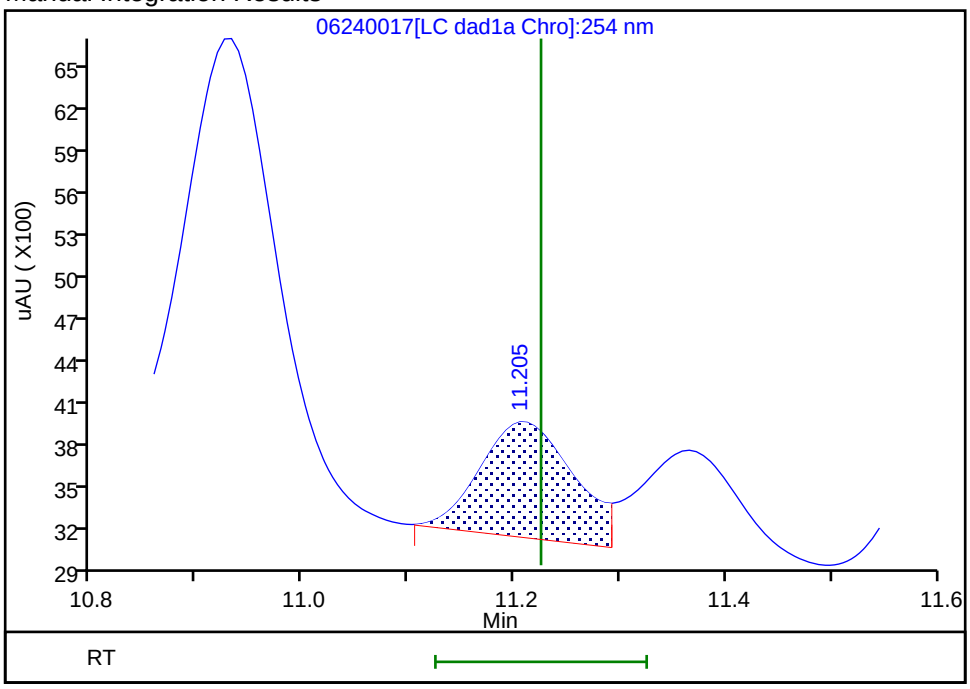
Processing Integration Results

RT: 11.21
Area: 3651
Amount: 0.017894
Amount Units: ug/mL



Manual Integration Results

RT: 11.21
Area: 4900
Amount: 0.024016
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 20:31:04

Audit Action: Assigned New Baseline Audit Reason: Baseline

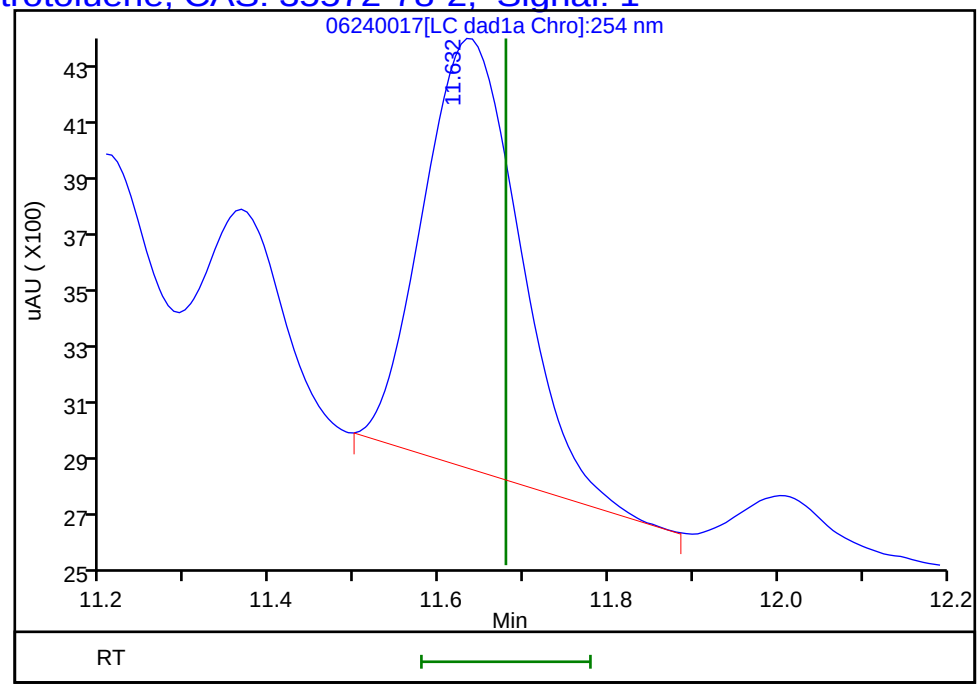
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240017.d				
Injection Date:	24-Jun-2020 20:06:06	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-5-A	Lab Sample ID:	280-137736-5		
Client ID:	G0122-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2, Signal: 1

RT: 11.63
Response: 12255
Amount: 0.060424



Reviewer: zhangji, 24-Jun-2020 20:31:28
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

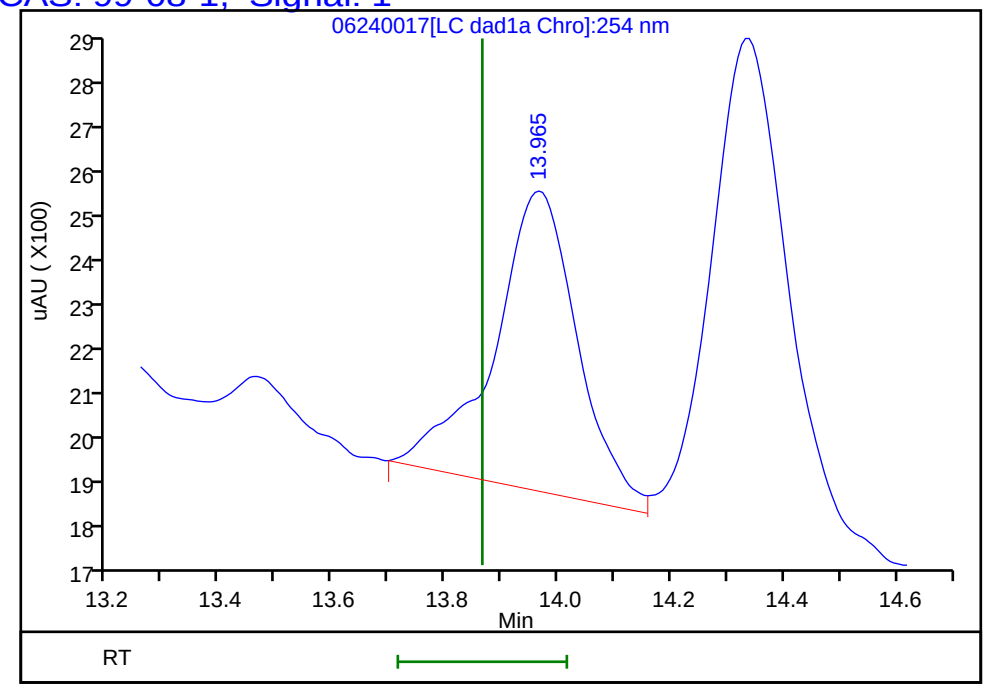
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240017.d

Injection Date:	24-Jun-2020 20:06:06	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-5-A	Lab Sample ID:	280-137736-5		
Client ID:	G0122-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

23 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 13.97
Response: 6721
Amount: 0.046991



Reviewer: zhangji, 24-Jun-2020 20:31:28
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

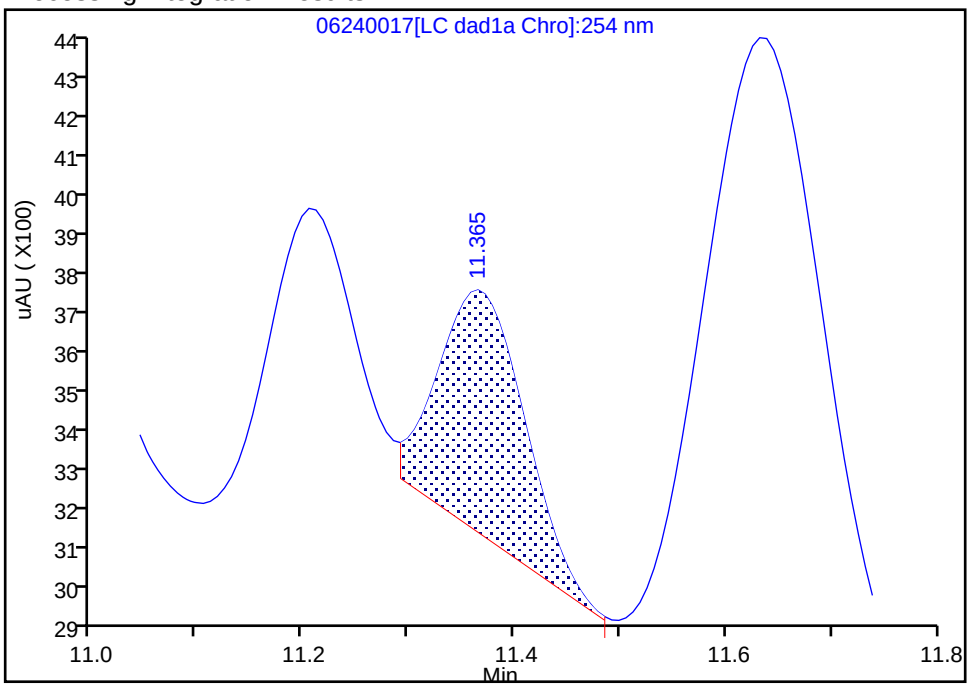
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240017.d				
Injection Date:	24-Jun-2020 20:06:06	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-5-A	Lab Sample ID:	280-137736-5		
Client ID:	G0122-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

17 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

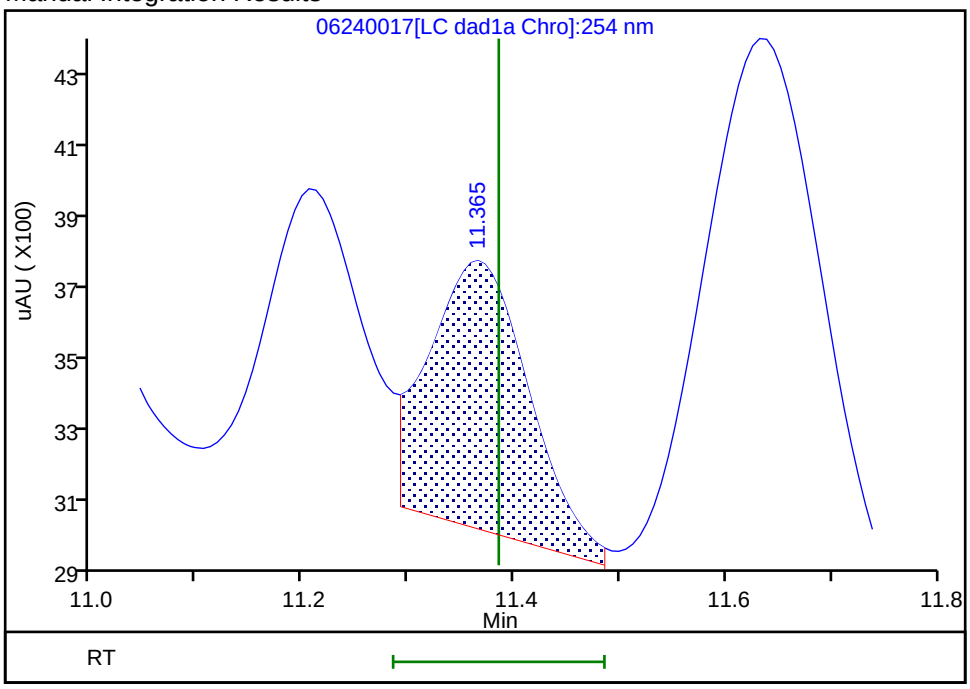
Processing Integration Results

RT: 11.37
Area: 3332
Amount: 0.025204
Amount Units: ug/mL



Manual Integration Results

RT: 11.37
Area: 4822
Amount: 0.033557
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 20:31:04
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

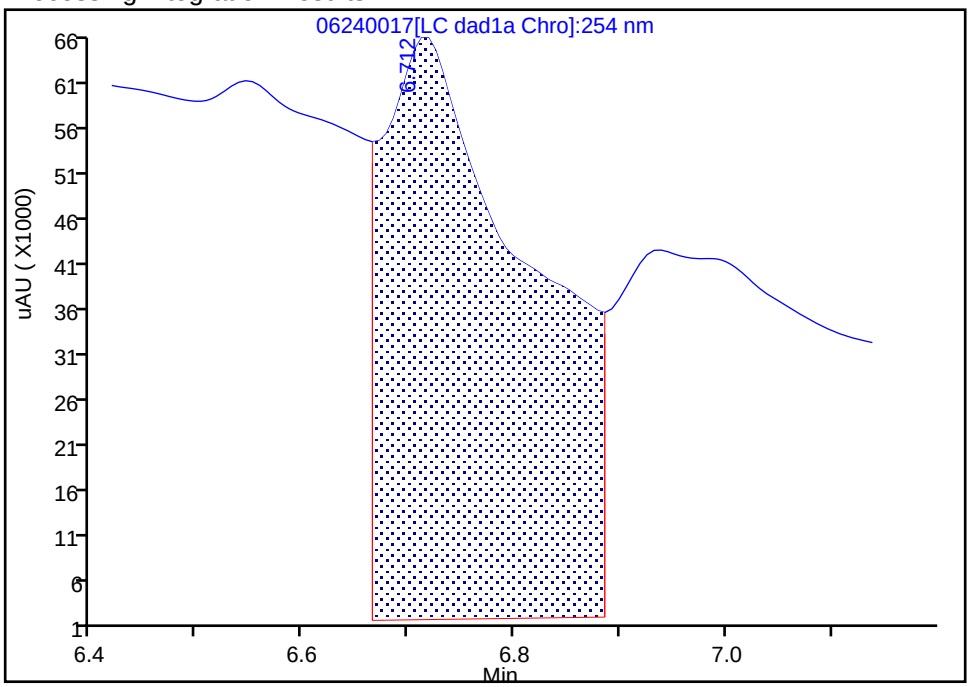
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240017.d				
Injection Date:	24-Jun-2020 20:06:06	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-5-A	Lab Sample ID:	280-137736-5		
Client ID:	G0122-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

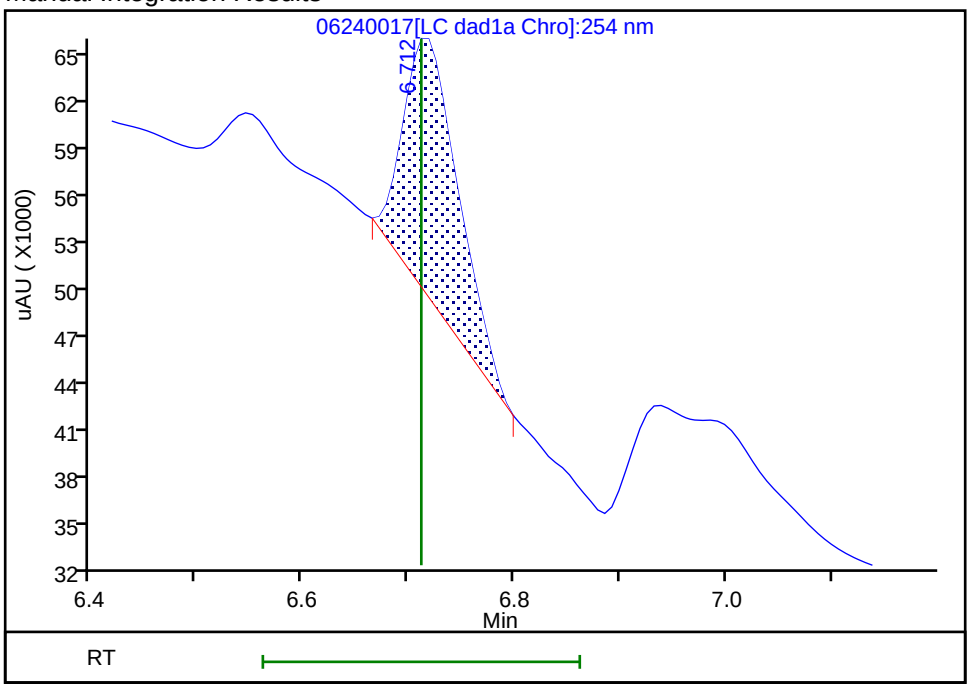
Processing Integration Results

RT: 6.71
Area: 619935
Amount: 7.211719
Amount Units: ug/mL



Manual Integration Results

RT: 6.71
Area: 59134
Amount: 0.687907
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 20:30:19

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

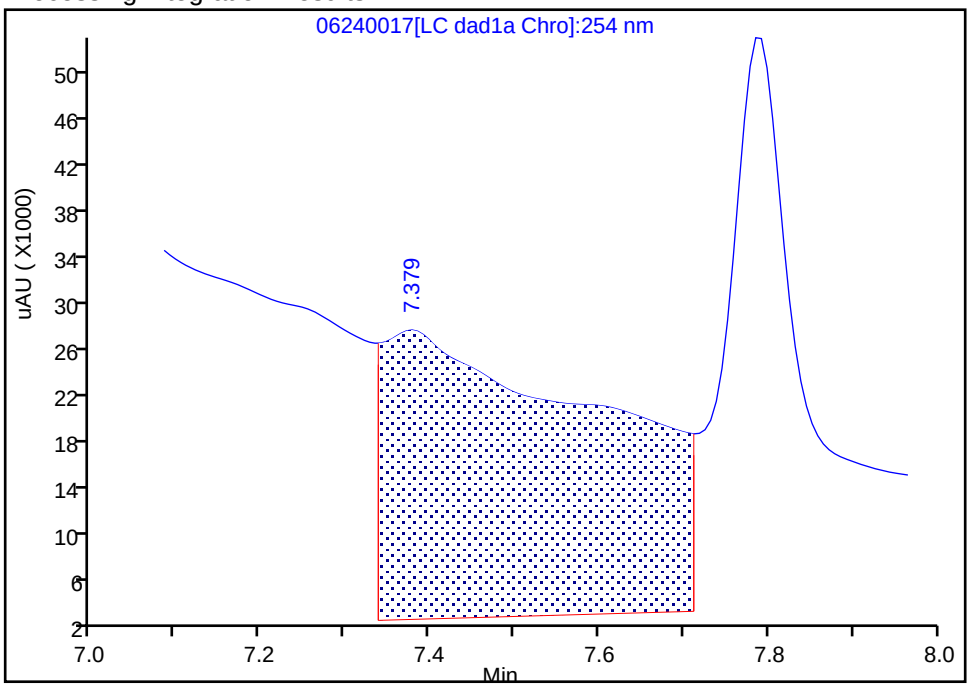
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240017.d				
Injection Date:	24-Jun-2020 20:06:06	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-5-A	Lab Sample ID:	280-137736-5		
Client ID:	G0122-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

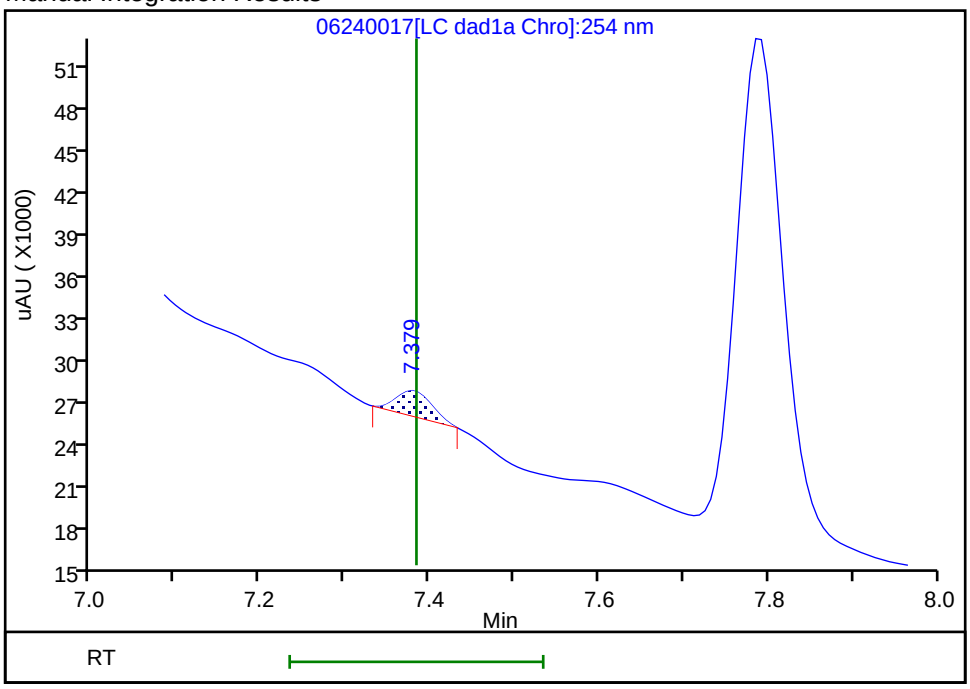
Processing Integration Results

RT: 7.38
Area: 439269
Amount: 2.770641
Amount Units: ug/mL



Manual Integration Results

RT: 7.38
Area: 5341
Amount: 0.033688
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 20:30:27

Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

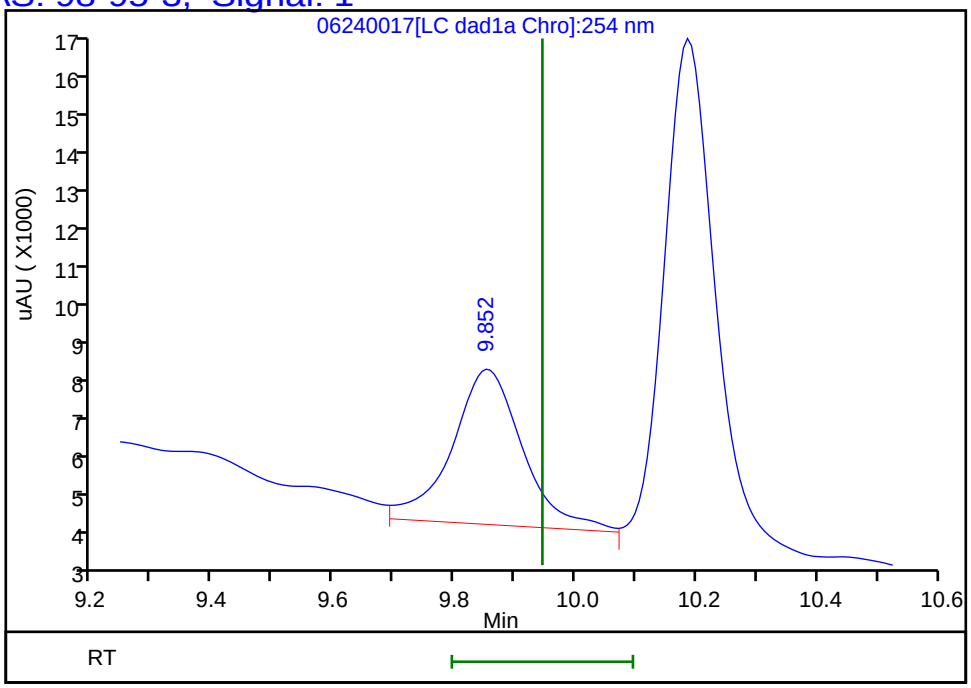
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240017.d

Injection Date:	24-Jun-2020 20:06:06	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-5-A	Lab Sample ID:	280-137736-5		
Client ID:	G0122-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

12 Nitrobenzene, CAS: 98-95-3, Signal: 1

RT: 9.85
Response: 30194
Amount: 0.150667



Reviewer: zhangji, 24-Jun-2020 20:31:28
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

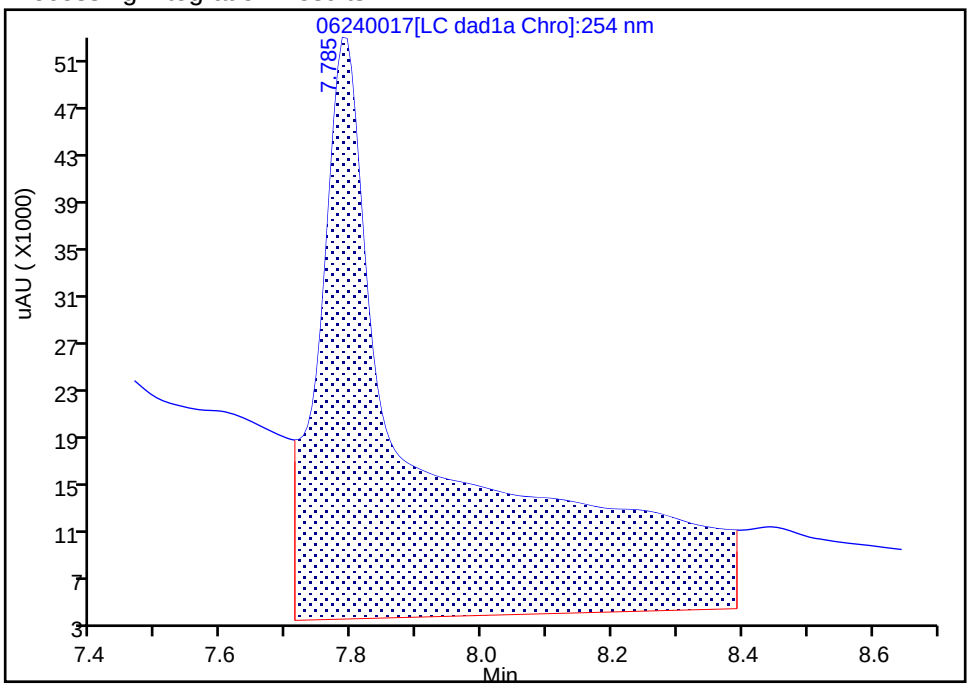
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240017.d				
Injection Date:	24-Jun-2020 20:06:06	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-5-A	Lab Sample ID:	280-137736-5		
Client ID:	G0122-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

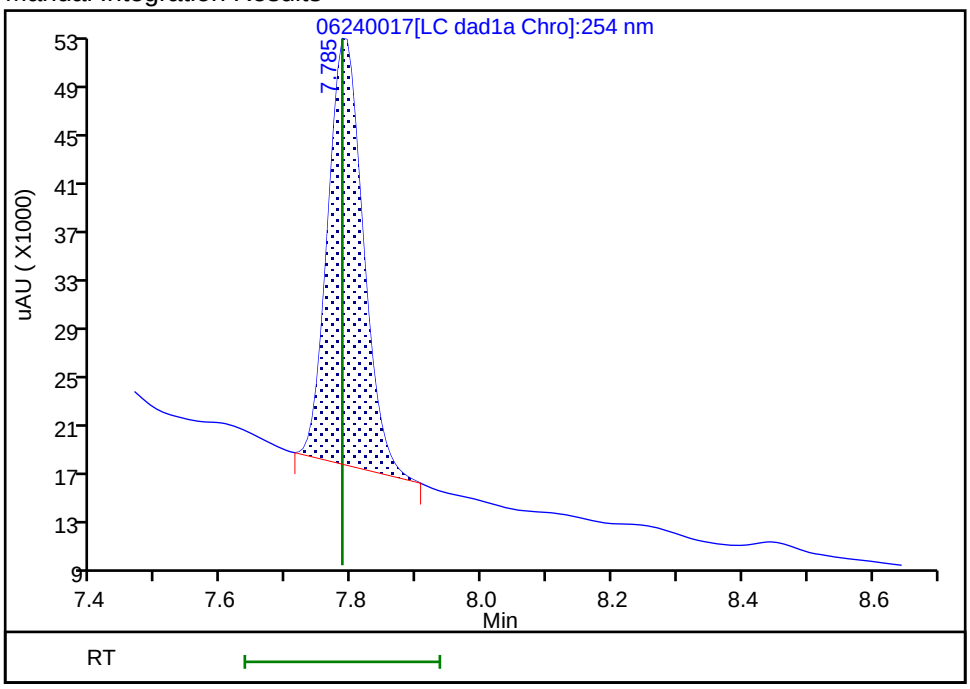
Processing Integration Results

RT: 7.79
Area: 562800
Amount: 4.826217
Amount Units: ug/mL



Manual Integration Results

RT: 7.79
Area: 131877
Amount: 1.130894
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 20:30:32

Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

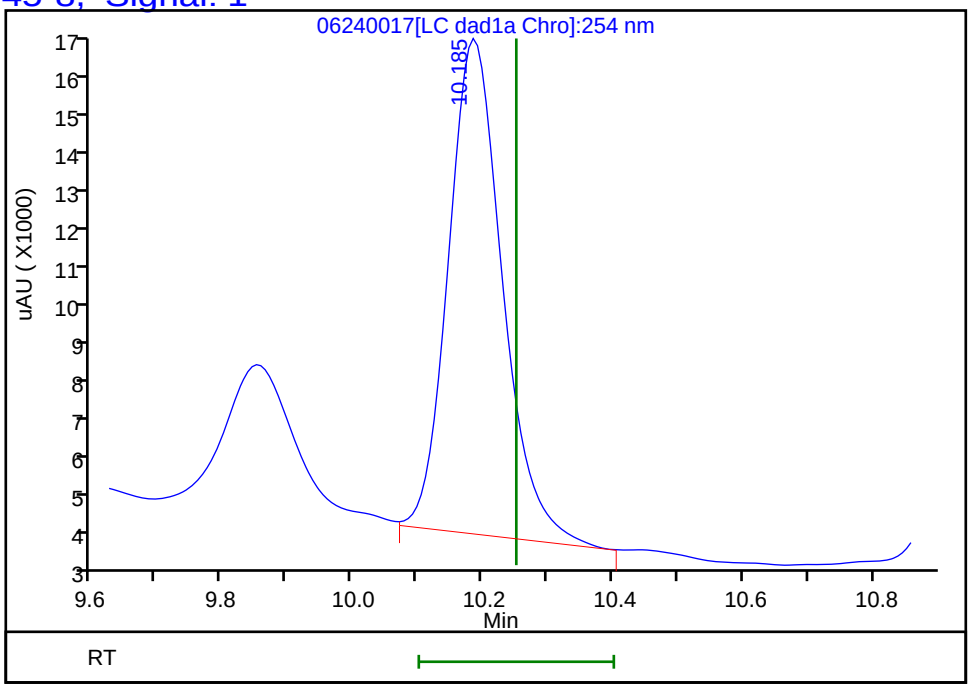
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240017.d

Injection Date:	24-Jun-2020 20:06:06	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-5-A	Lab Sample ID:	280-137736-5		
Client ID:	G0122-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.19
Response: 69314
Amount: 0.391534



Reviewer: zhangji, 24-Jun-2020 20:31:28

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0122-20A Lab Sample ID: 280-137736-5

Matrix: Water Lab File ID: 06260016.D

Analysis Method: 8330A Date Collected: 06/16/2020 11:55

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 473(mL) Date Analyzed: 06/26/2020 23:49

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

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

Analysis Batch No.: 500326 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
118-96-7	2,4,6-Trinitrotoluene	0.11	U M	0.12	0.11	0.048
121-14-2	2,4-Dinitrotoluene	0.085	U M	0.11	0.085	0.029
19406-51-0	4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.061
5755-27-1	*MNX*	*0.59*	*J J1*	*2.1*	0.42	*0.16*

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	94		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260016.D
Lims ID: 280-137736-A-5-A
Client ID: G0122-20A
Sample Type: Client
Inject. Date: 26-Jun-2020 23:49:39 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-5-A
Misc. Info.: 280-0092796-016
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 15:27:55 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 27-Jun-2020 11:57:21

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
	6 HMX	1	7.136	7.154	-0.018	127585	0.6907	
	7 MNX	1	7.903	7.919	-0.016	20236	0.0556	
	8 RDX	1	9.350	9.367	-0.017	282421	1.16	
	9 Nitrobenzene	1		12.274			ND	
$	10 1,2-Dinitrobenzene	1	13.256	13.281	-0.025	53785	0.1874	
	12 1,3-Dinitrobenzene	1		15.814			ND	U
	14 o-Nitrotoluene	1		16.754			ND	U
	15 p-Nitrotoluene	1		17.034			ND	
	16 4-Amino-2,6-dinitrotoluene	1		17.474			ND	
	17 m-Nitrotoluene	1		17.967			ND	MU
	18 2-Amino-4,6-dinitrotoluene	1	18.356	18.407	-0.051	21946	0.0472	M
	19 1,3,5-Trinitrobenzene	1	19.116	19.147	-0.031	115653	0.2448	M
	20 2,6-Dinitrotoluene	1		20.074			ND	
	21 2,4-Dinitrotoluene	1		20.587			ND	U
	22 Tetryl	1		23.887			ND	
	23 2,4,6-Trinitrotoluene	1		24.907			ND	U

QC Flag Legend

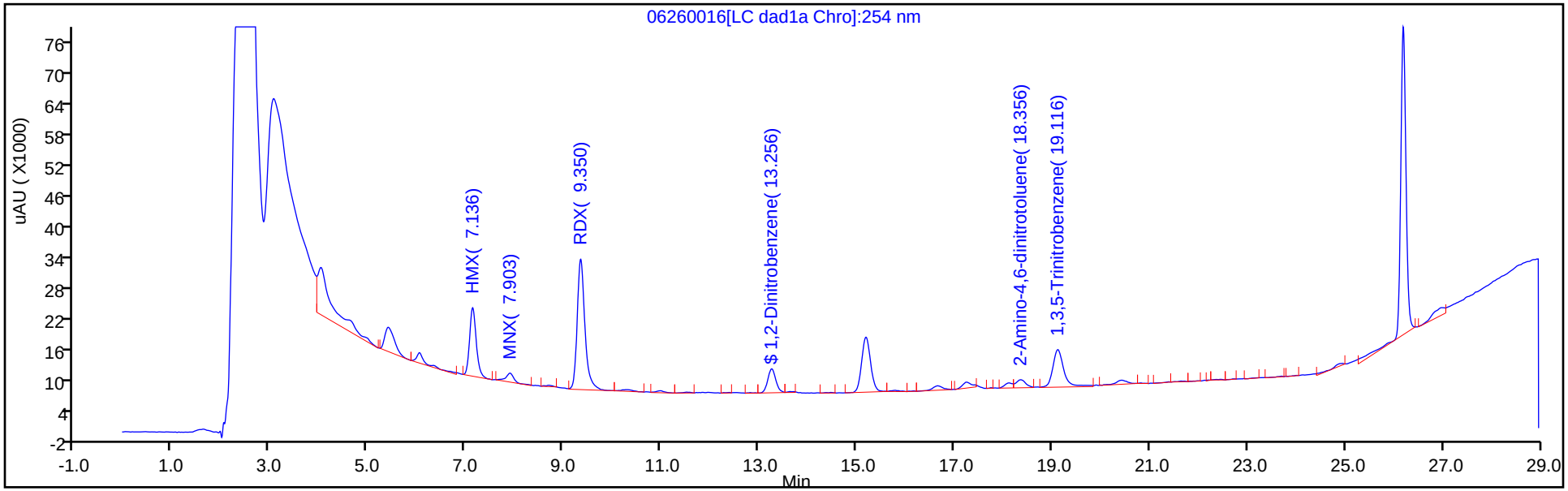
Review Flags
- M - Manually Integrated
- U - Marked Undetected

Report Date: 27-Jun-2020 15:27:59 Chrom Revision: 2.3 21-Jun-2020 18:30:46

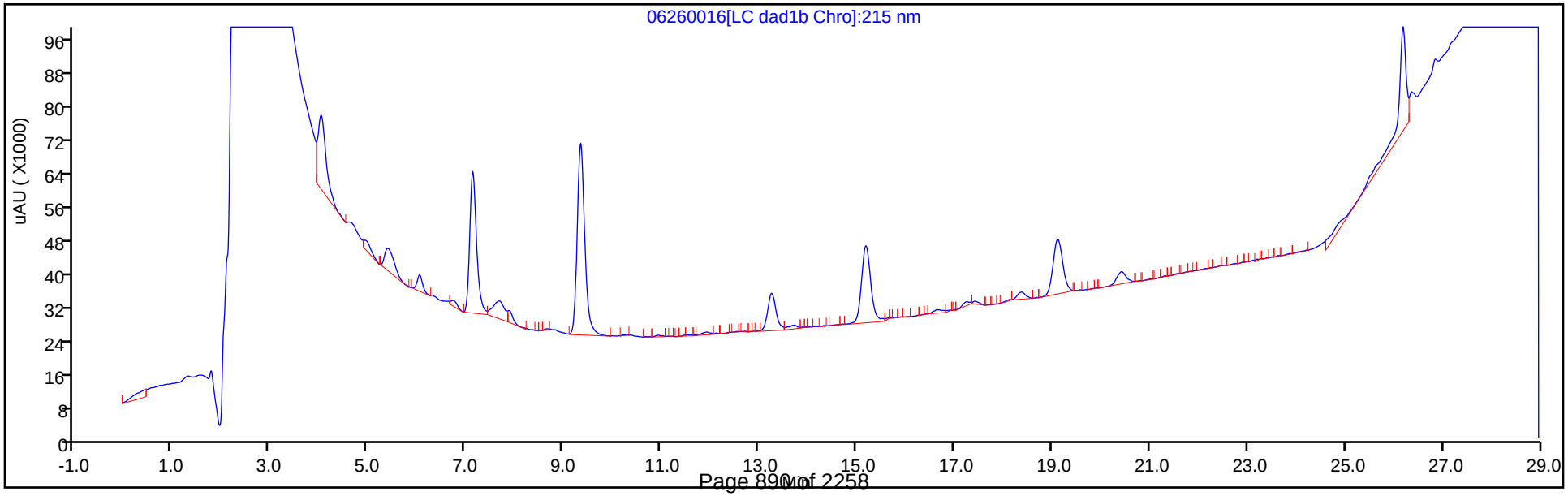
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260016.d				
Injection Date:	26-Jun-2020 23:49:39	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137736-A-5-A	Lab Sample ID:	280-137736-5	Worklist Smp#:	16
Client ID:	G0122-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260016.D				
Lims ID:	280-137736-A-5-A				
Client ID:	G0122-20A				
Sample Type:	Client				
Inject. Date:	26-Jun-2020 23:49:39	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-5-A				
Misc. Info.:	280-0092796-016				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 15:27:55	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1036				
First Level Reviewer: zhangji		Date:	27-Jun-2020 11:57:21		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1874	93.69

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

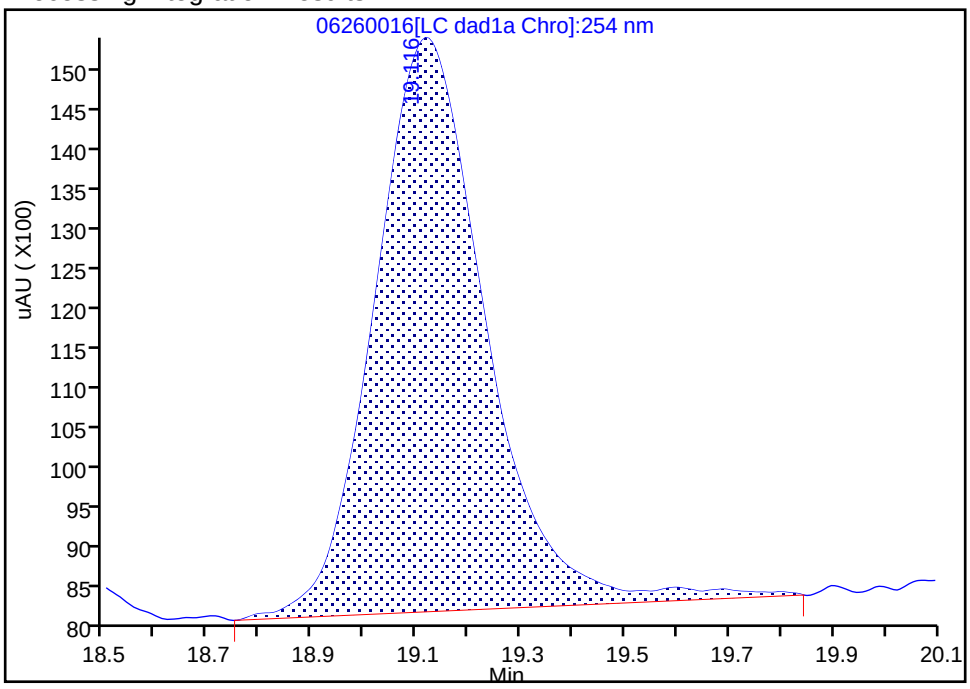
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260016.d				
Injection Date:	26-Jun-2020 23:49:39	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-5-A	Lab Sample ID:	280-137736-5		
Client ID:	G0122-20A				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

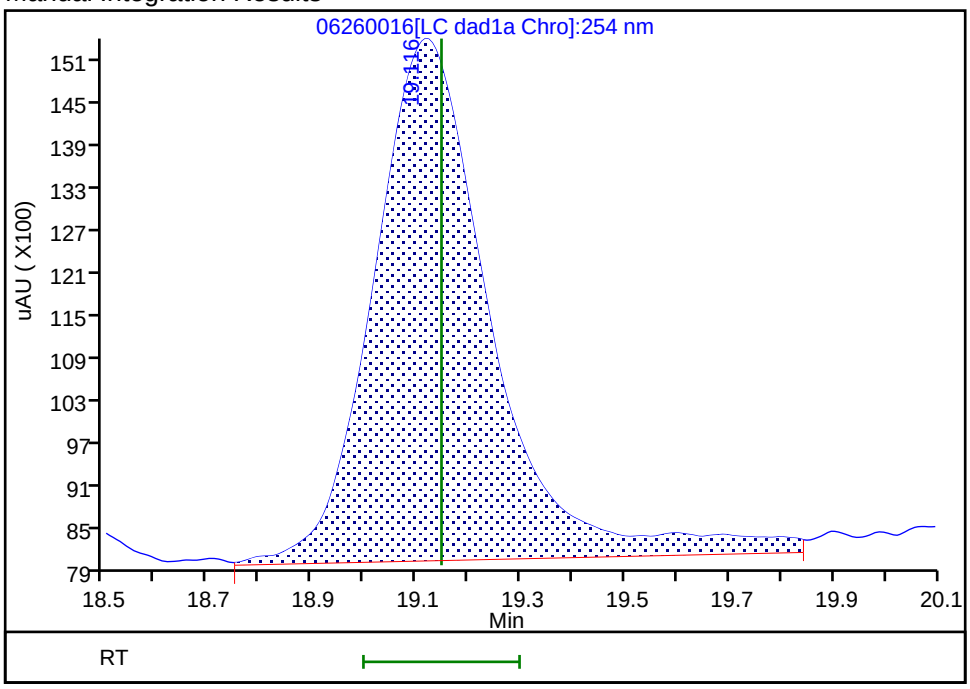
Processing Integration Results

RT: 19.12
Area: 108535
Amount: 0.229728
Amount Units: ug/ml



Manual Integration Results

RT: 19.12
Area: 115653
Amount: 0.244794
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:57:20

Audit Action: Assigned New Baseline Audit Reason: Baseline

User Disabled Compound Report

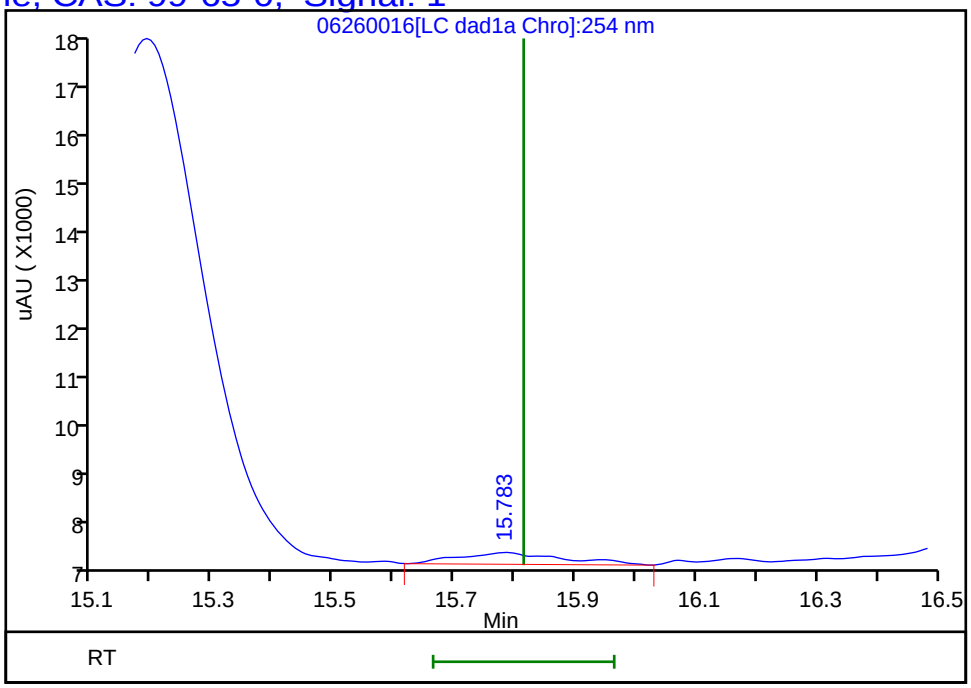
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260016.d

Injection Date:	26-Jun-2020 23:49:39	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-5-A	Lab Sample ID:	280-137736-5		
Client ID:	G0122-20A				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 15.78
Response: 2868
Amount: 0.004254



Reviewer: zhangji, 27-Jun-2020 11:57:21

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

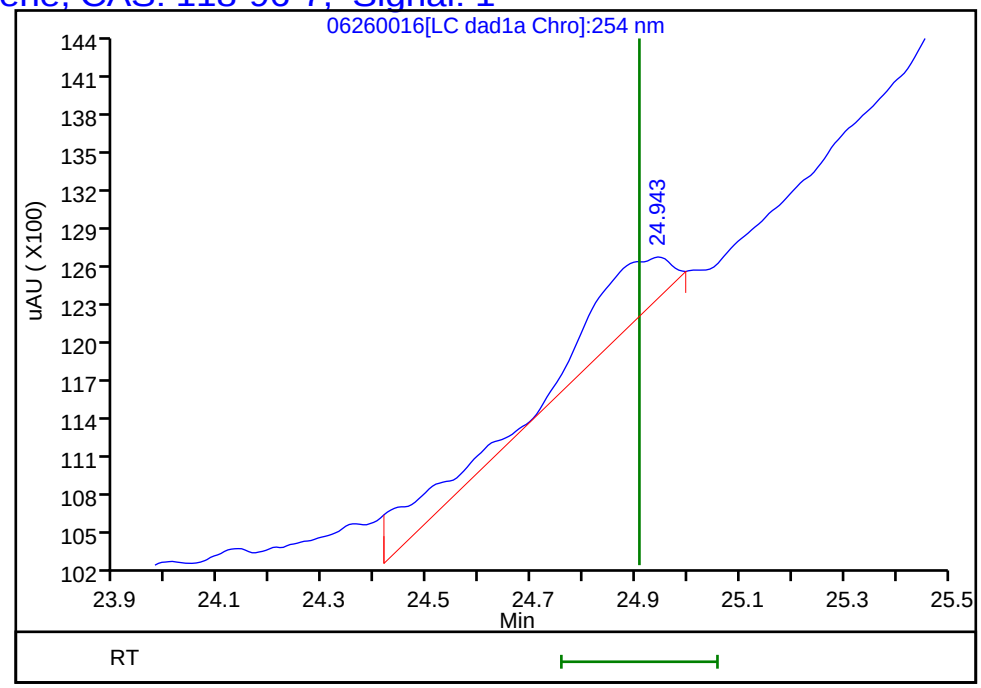
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260016.d

Injection Date:	26-Jun-2020 23:49:39	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-5-A	Lab Sample ID:	280-137736-5		
Client ID:	G0122-20A				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

23 2,4,6-Trinitrotoluene, CAS: 118-96-7, Signal: 1

RT: 24.94
Response: 7827
Amount: 0.011626



Reviewer: zhangji, 27-Jun-2020 11:57:21
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

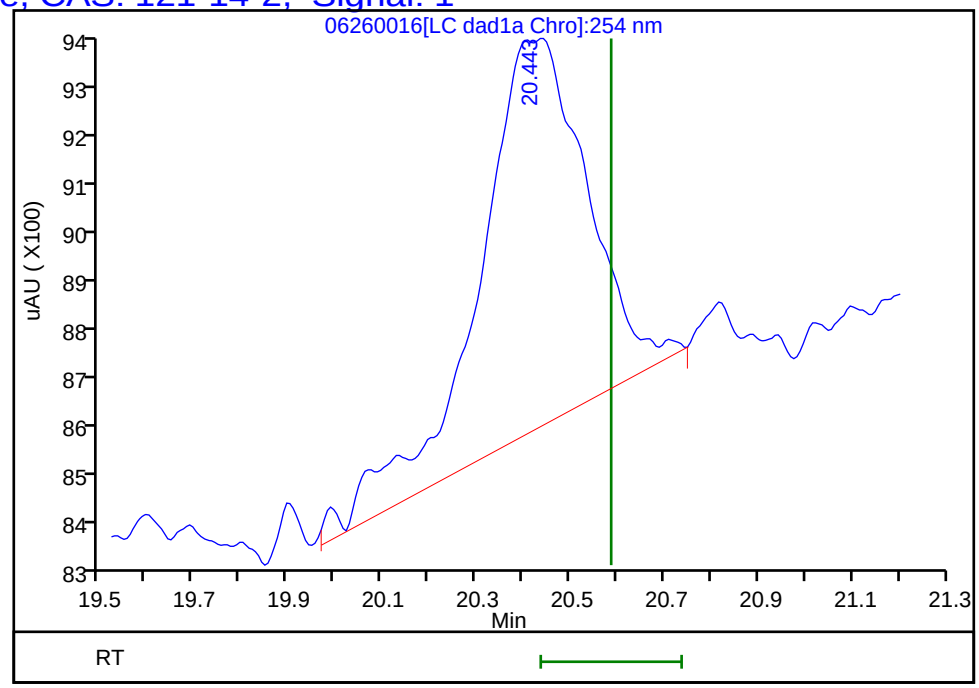
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260016.d

Injection Date:	26-Jun-2020 23:49:39	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-5-A	Lab Sample ID:	280-137736-5		
Client ID:	G0122-20A				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2, Signal: 1

RT: 20.44
Response: 12769
Amount: 0.019948



Reviewer: zhangji, 27-Jun-2020 11:57:21

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

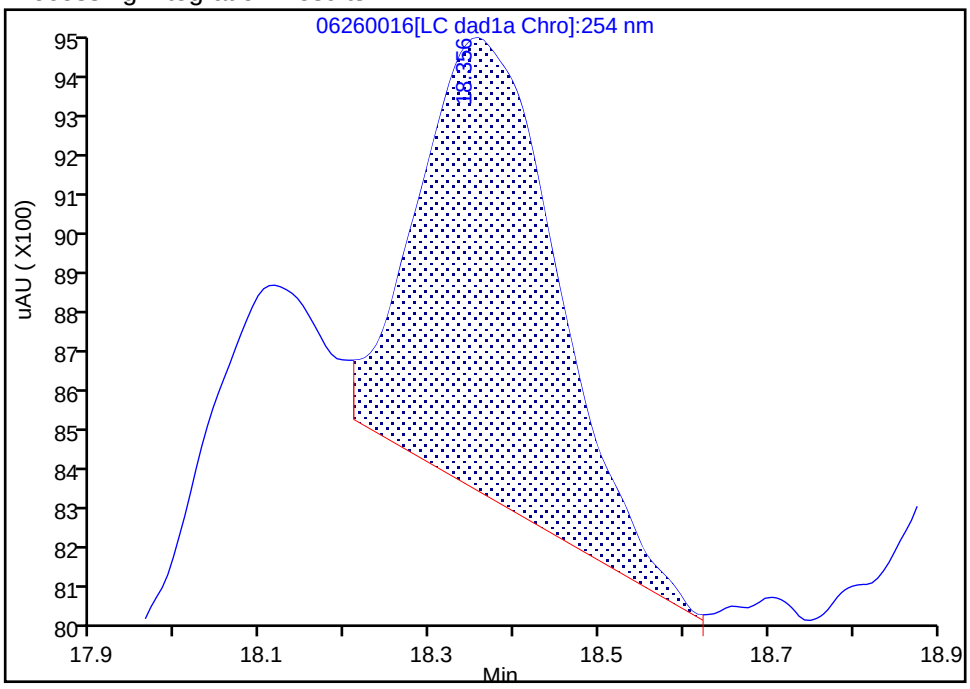
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260016.d				
Injection Date:	26-Jun-2020 23:49:39	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-5-A	Lab Sample ID:	280-137736-5		
Client ID:	G0122-20A				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

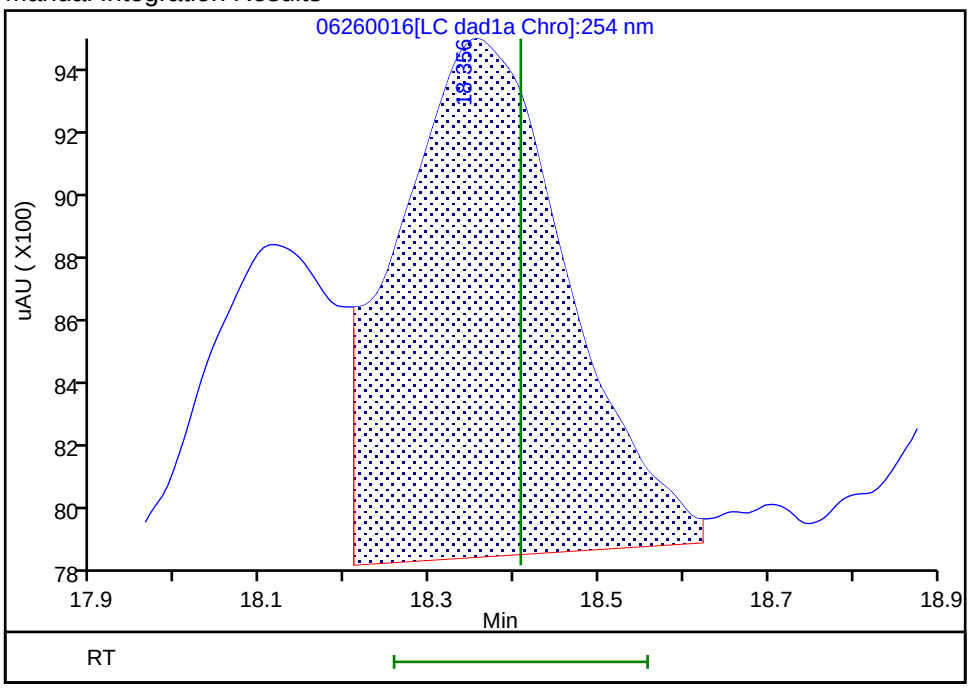
Processing Integration Results

RT: 18.36
Area: 13328
Amount: 0.028649
Amount Units: ug/ml



Manual Integration Results

RT: 18.36
Area: 21946
Amount: 0.047174
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:57:20

Audit Action: Assigned New Baseline Audit Reason: Baseline

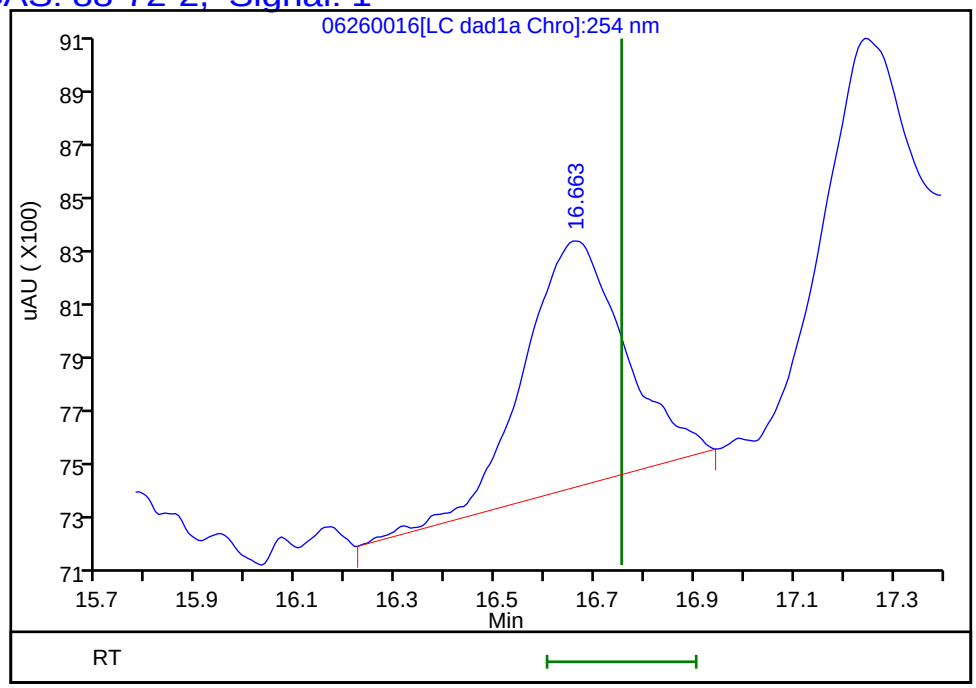
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260016.d				
Injection Date:	26-Jun-2020 23:49:39	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-5-A	Lab Sample ID:	280-137736-5		
Client ID:	G0122-20A				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.66
Response: 12199
Amount: 0.044691



Reviewer: zhangji, 27-Jun-2020 11:57:21
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

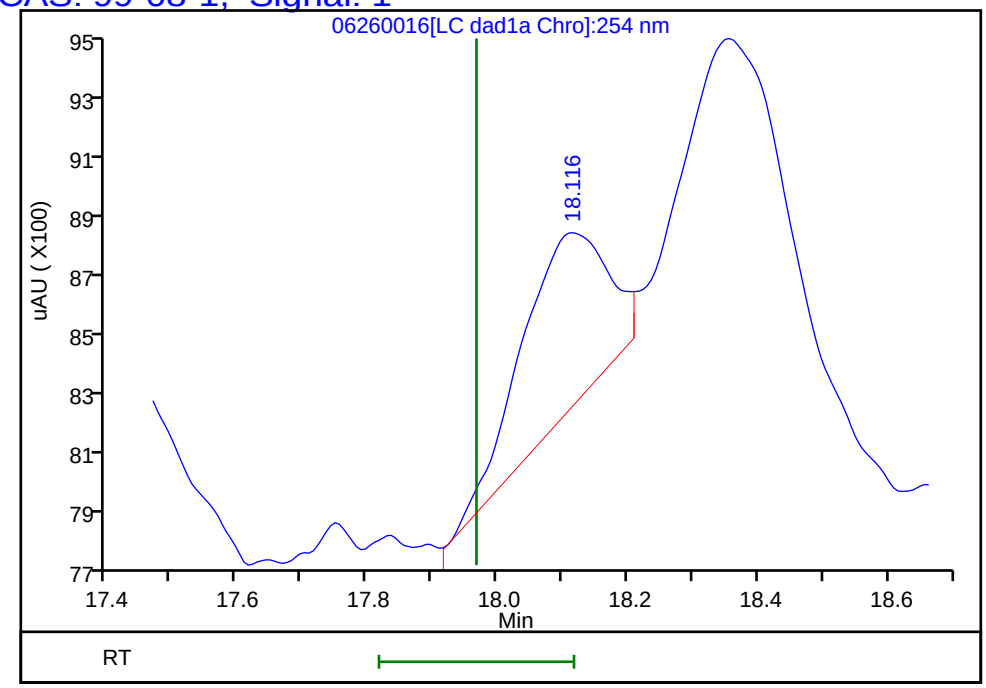
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260016.d				
Injection Date:	26-Jun-2020 23:49:39	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-5-A	Lab Sample ID:	280-137736-5		
Client ID:	G0122-20A				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 18.12
Response: 5315
Amount: 0.017816



Reviewer: zhangji, 27-Jun-2020 11:57:21
Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0096-20A Lab Sample ID: 280-137736-6

Matrix: Water Lab File ID: 06240018.D

Analysis Method: 8330A Date Collected: 06/16/2020 09:40

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 463.2(mL) Date Analyzed: 06/24/2020 20:29

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499988 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	13	M	0.23	0.22	0.091
99-65-0	1,3-Dinitrobenzene	0.11	U M	0.12	0.11	0.040
118-96-7	2,4,6-Trinitrotoluene	0.96	M	0.12	0.11	0.049
121-14-2	2,4-Dinitrotoluene	0.047	J J1	0.11	0.086	0.030
606-20-2	2,6-Dinitrotoluene	0.086	U	0.11	0.086	0.043
35572-78-2	2-Amino-4,6-dinitrotoluene	1.1	M	0.12	0.11	0.055
88-72-2	2-Nitrotoluene	0.22	U	0.23	0.22	0.092
99-08-1	3-Nitrotoluene	0.43	U	0.43	0.43	0.21
19406-51-0	4-Amino-2,6-dinitrotoluene	1.5	M	0.16	0.13	0.062
99-99-0	4-Nitrotoluene	0.43	U M	0.44	0.43	0.11
2691-41-0	HMX	9.7	M	0.23	0.22	0.095
5755-27-1	MNX	1.6	J M	2.2	0.43	0.17
98-95-3	Nitrobenzene	0.22	U M	0.23	0.22	0.098
479-45-8	Tetryl	0.11	U M	0.12	0.11	0.034

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	93	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240018.D
Lims ID: 280-137736-A-6-A
Client ID: G0096-20A
Sample Type: Client
Inject. Date: 24-Jun-2020 20:29:05 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-6-A
Misc. Info.: 280-0092716-018
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:07 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 24-Jun-2020 20:56:25

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1	6.719	6.712	0.007	77415	0.9006	M
6 MNX	1	7.379	7.384	-0.005	23708	0.1495	M
7 RDX	1	7.786	7.785	0.001	371124	3.18	EM
$ 9 1,2-Dinitrobenzene	1	8.746	8.738	0.008	25587	0.1851	M
10 1,3,5-Trinitrobenzene	1	8.926	8.918	0.008	272276	1.18	M
11 1,3-Dinitrobenzene	1		9.565			ND	MU
12 Nitrobenzene	1		9.945			ND	MU
14 Tetryl	1		10.252			ND	MU
16 2,4,6-Trinitrotoluene	1	11.213	11.225	-0.012	18076	0.0886	M
17 4-Amino-2,6-dinitrotoluene	1	11.366	11.385	-0.019	23843	0.1402	M
18 2-Amino-4,6-dinitrotoluene	1	11.659	11.678	-0.019	19819	0.0977	M
19 2,6-Dinitrotoluene	1		11.818			ND	
20 2,4-Dinitrotoluene	1	11.999	12.018	-0.019	1328	0.004374	
21 o-Nitrotoluene	1		12.845			ND	
22 p-Nitrotoluene	1		13.272			ND	U
23 m-Nitrotoluene	1		13.865			ND	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
Review Flags
M - Manually Integrated
U - Marked Undetected

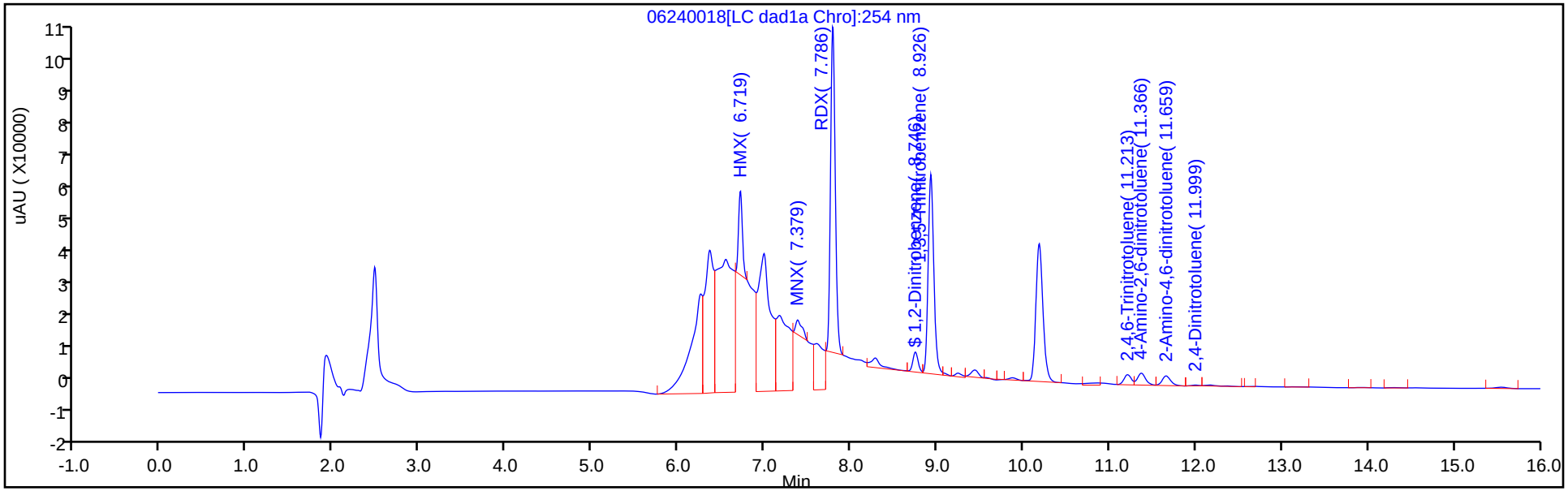
Report Date: 25-Jun-2020 21:10:14 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

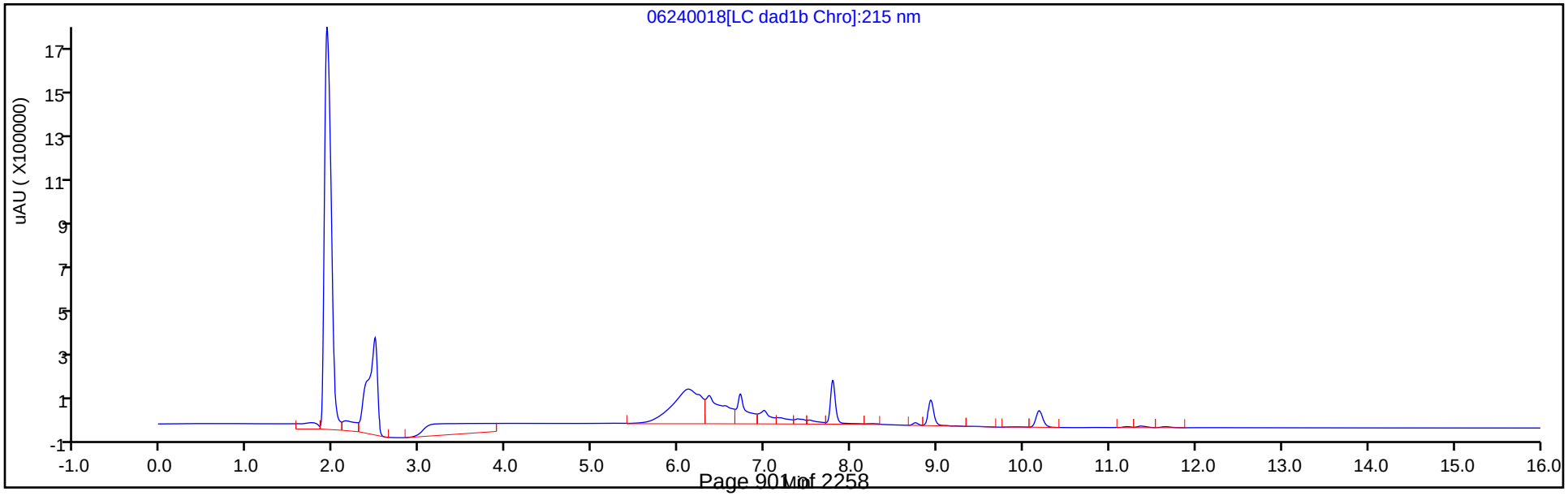
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240018.d

Injection Date:	24-Jun-2020 20:29:05	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6	Worklist Smp#:	18
Client ID:	G0096-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240018.D				
Lims ID:	280-137736-A-6-A				
Client ID:	G0096-20A				
Sample Type:	Client				
Inject. Date:	24-Jun-2020 20:29:05	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-6-A				
Misc. Info.:	280-0092716-018				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	25-Jun-2020 21:10:07	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1063				
First Level Reviewer: zhangji		Date:	24-Jun-2020 20:56:25		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1851	92.56

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

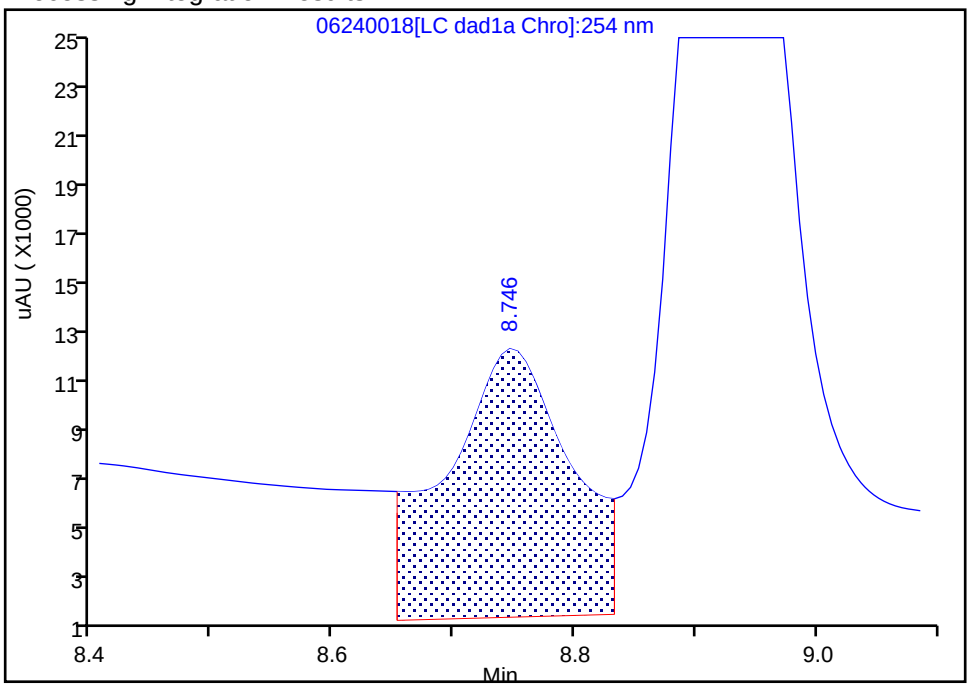
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240018.d				
Injection Date:	24-Jun-2020 20:29:05	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6		
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

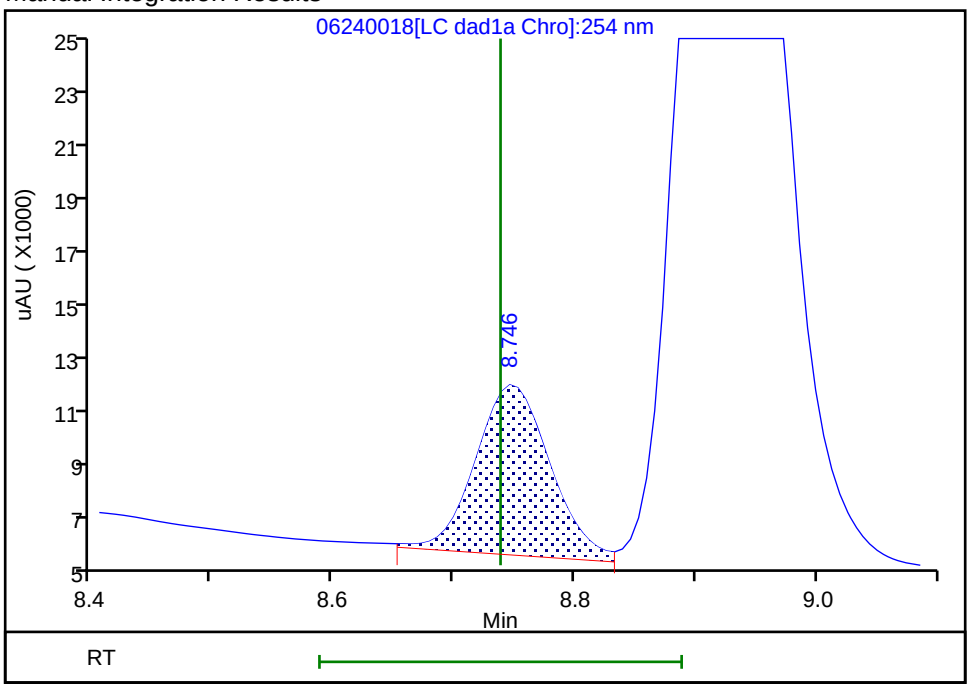
Processing Integration Results

RT: 8.75
Area: 74376
Amount: 0.538129
Amount Units: ug/mL



Manual Integration Results

RT: 8.75
Area: 25587
Amount: 0.185128
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 20:55:30
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

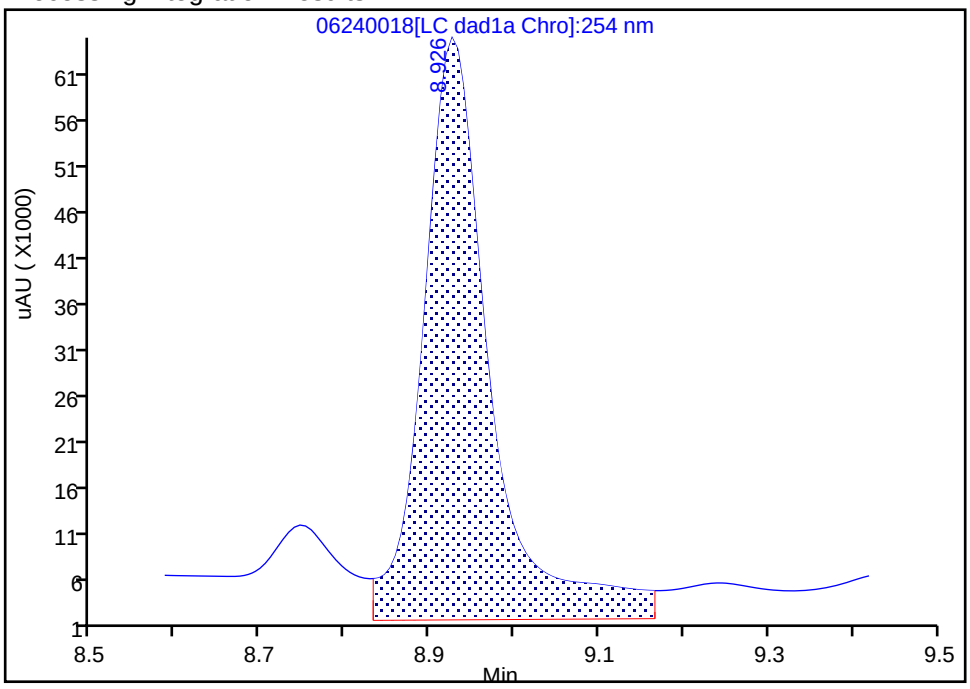
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240018.d				
Injection Date:	24-Jun-2020 20:29:05	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6		
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

10 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

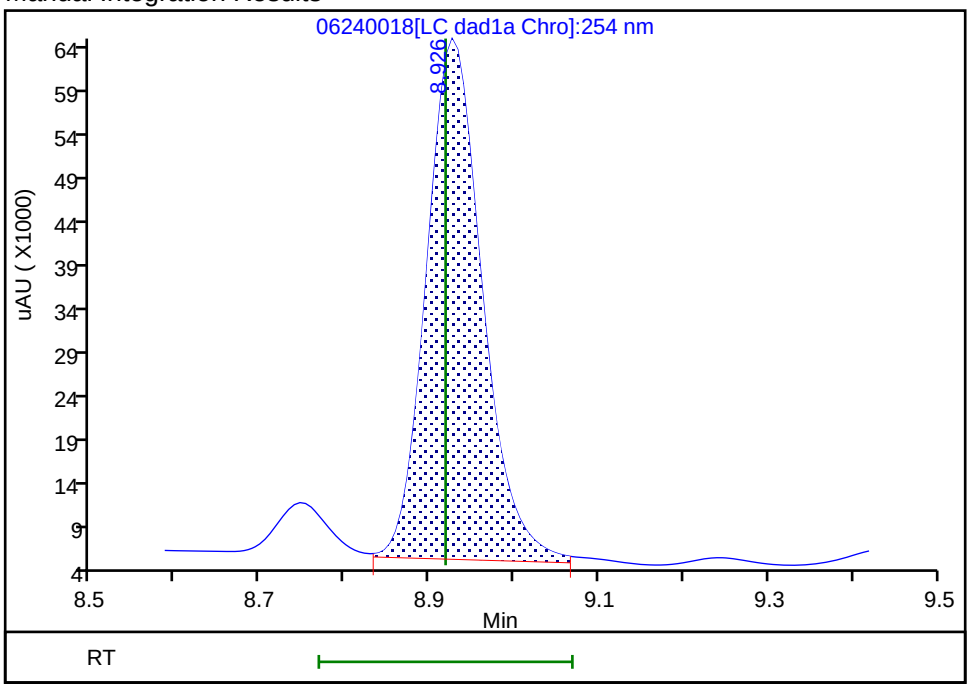
Processing Integration Results

RT: 8.93
Area: 345846
Amount: 1.501662
Amount Units: ug/mL



Manual Integration Results

RT: 8.93
Area: 272276
Amount: 1.182221
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 20:55:33

Audit Action: Split an Integrated Peak Audit Reason: Baseline

User Disabled Compound Report

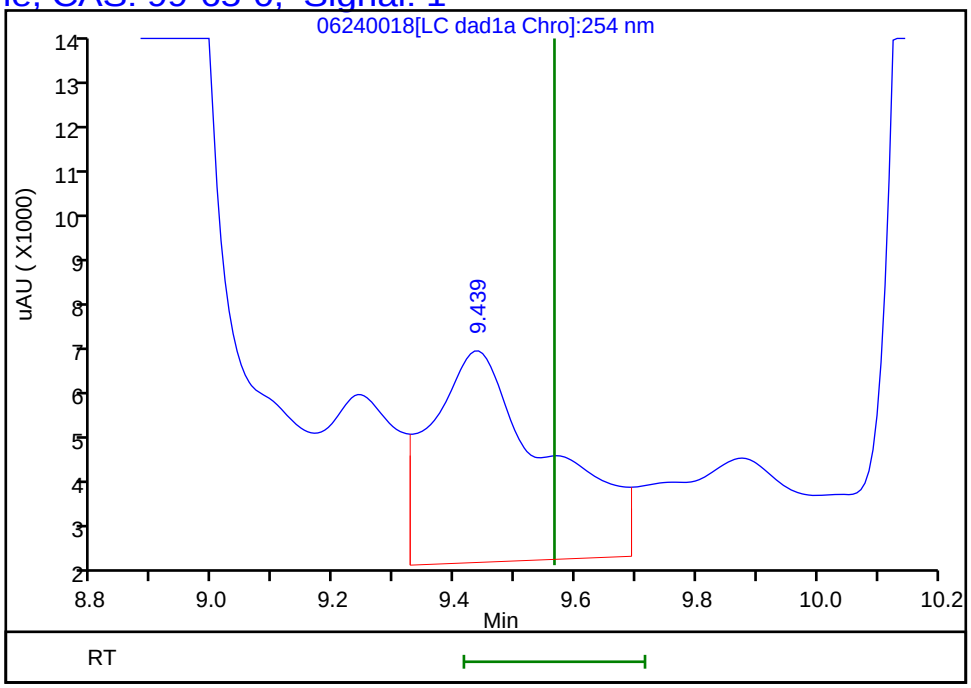
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240018.d

Injection Date:	24-Jun-2020 20:29:05	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6		
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

11 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.44
Response: 61406
Amount: 0.200225



Reviewer: zhangji, 24-Jun-2020 20:56:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

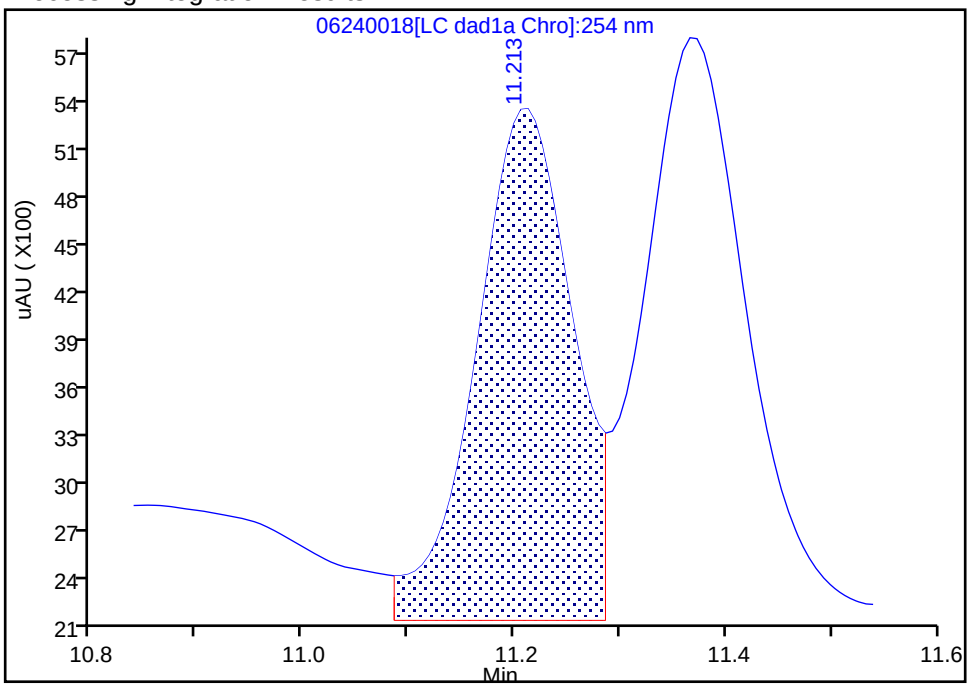
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240018.d				
Injection Date:	24-Jun-2020 20:29:05	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6		
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

16 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

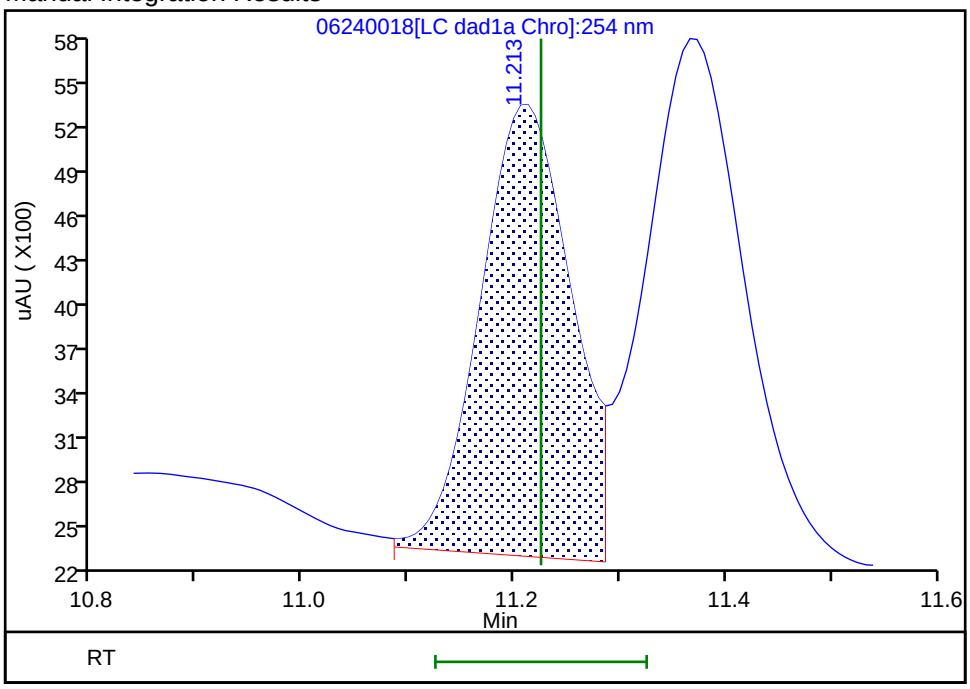
Processing Integration Results

RT: 11.21
Area: 20128
Amount: 0.098652
Amount Units: ug/mL



Manual Integration Results

RT: 11.21
Area: 18076
Amount: 0.088594
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 20:56:04

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

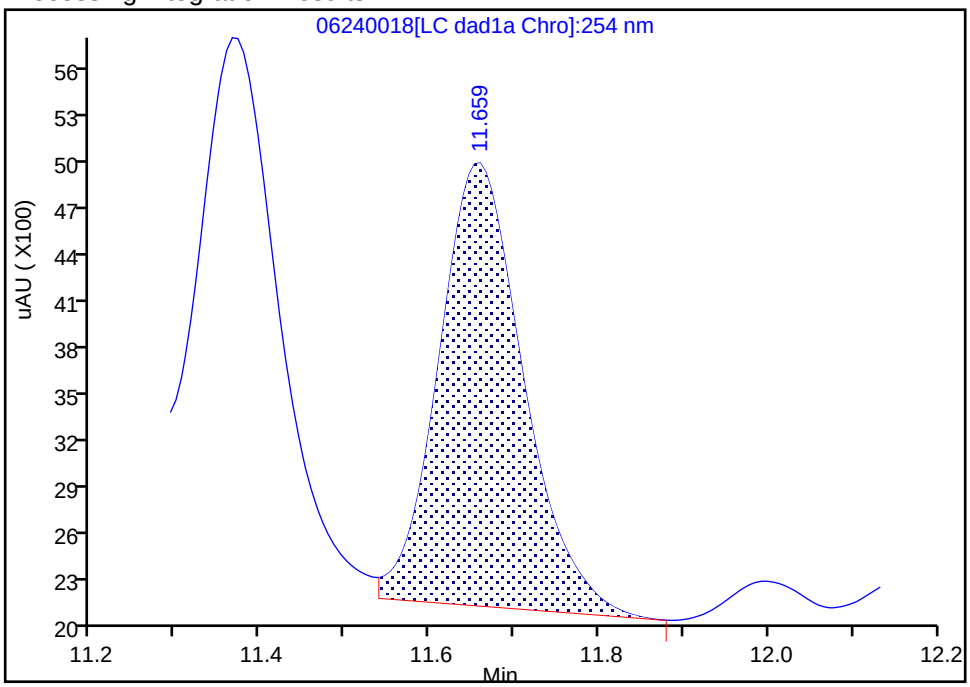
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240018.d				
Injection Date:	24-Jun-2020 20:29:05	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6		
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

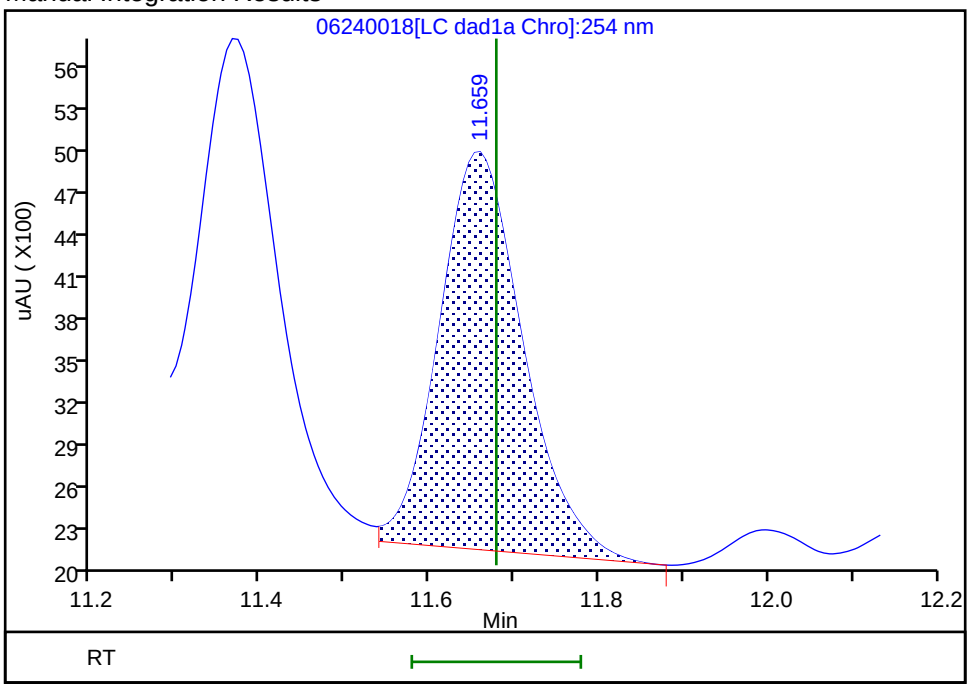
Processing Integration Results

RT: 11.66
Area: 20125
Amount: 0.099228
Amount Units: ug/mL



Manual Integration Results

RT: 11.66
Area: 19819
Amount: 0.097719
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 20:56:04

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

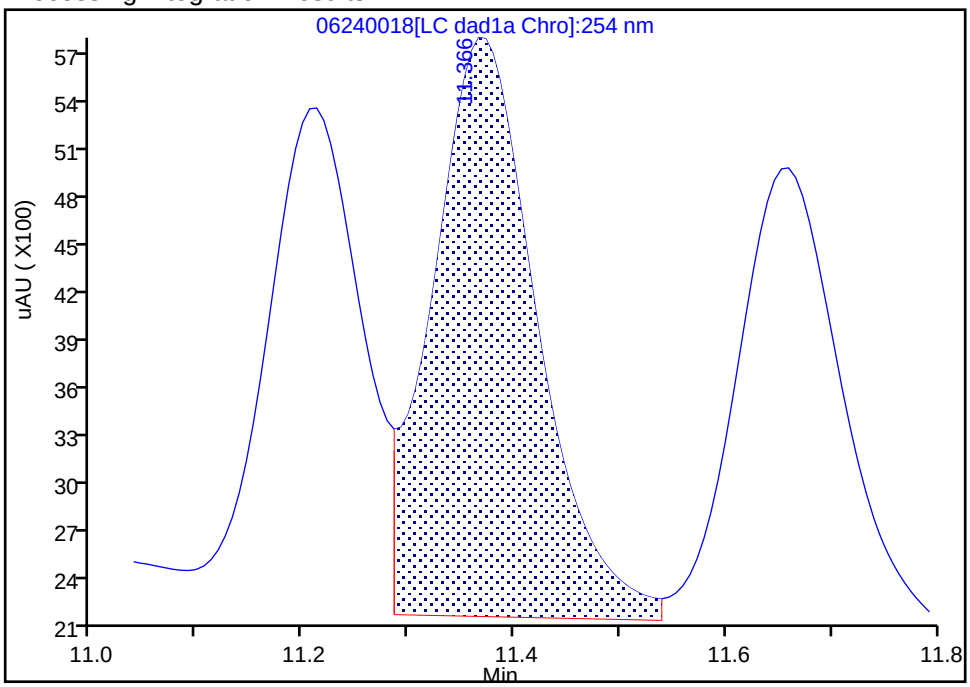
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240018.d				
Injection Date:	24-Jun-2020 20:29:05	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6		
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

17 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

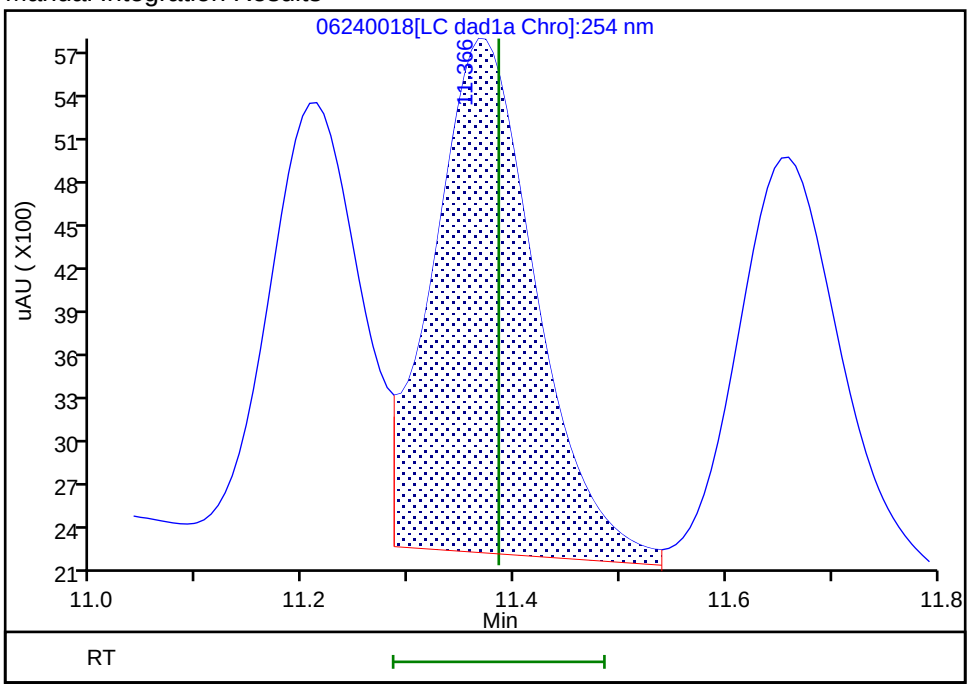
Processing Integration Results

RT: 11.37
Area: 24983
Amount: 0.146584
Amount Units: ug/mL



Manual Integration Results

RT: 11.37
Area: 23843
Amount: 0.140193
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 20:56:04

Audit Action: Assigned New Baseline Audit Reason: Baseline

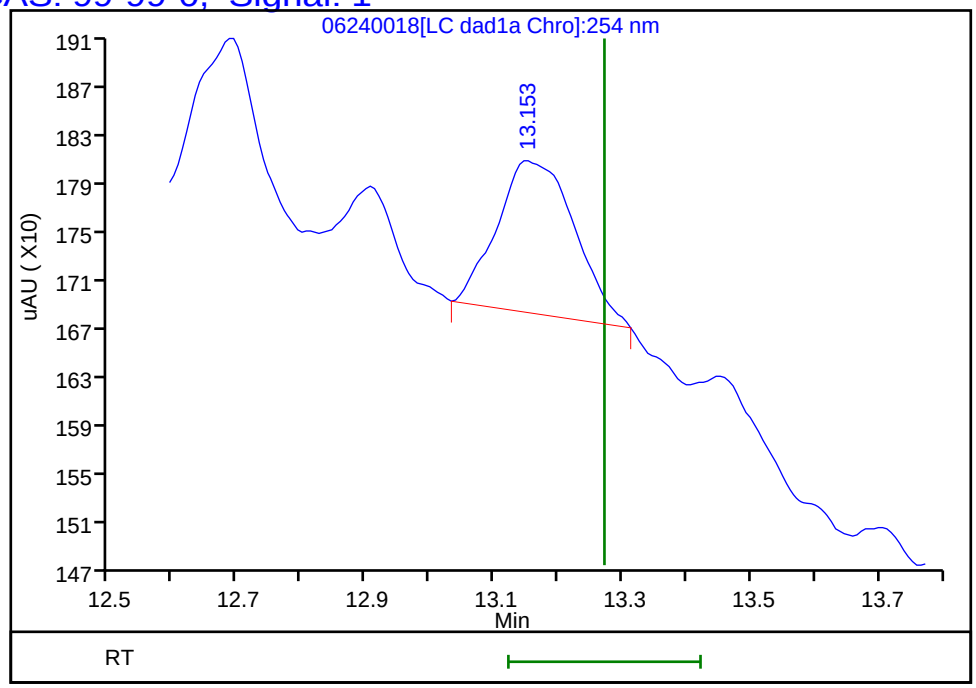
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240018.d				
Injection Date:	24-Jun-2020 20:29:05	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6		
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

22 p-Nitrotoluene, CAS: 99-99-0, Signal: 1

RT: 13.15
Response: 1064
Amount: 0.009416



Reviewer: zhangji, 24-Jun-2020 20:56:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

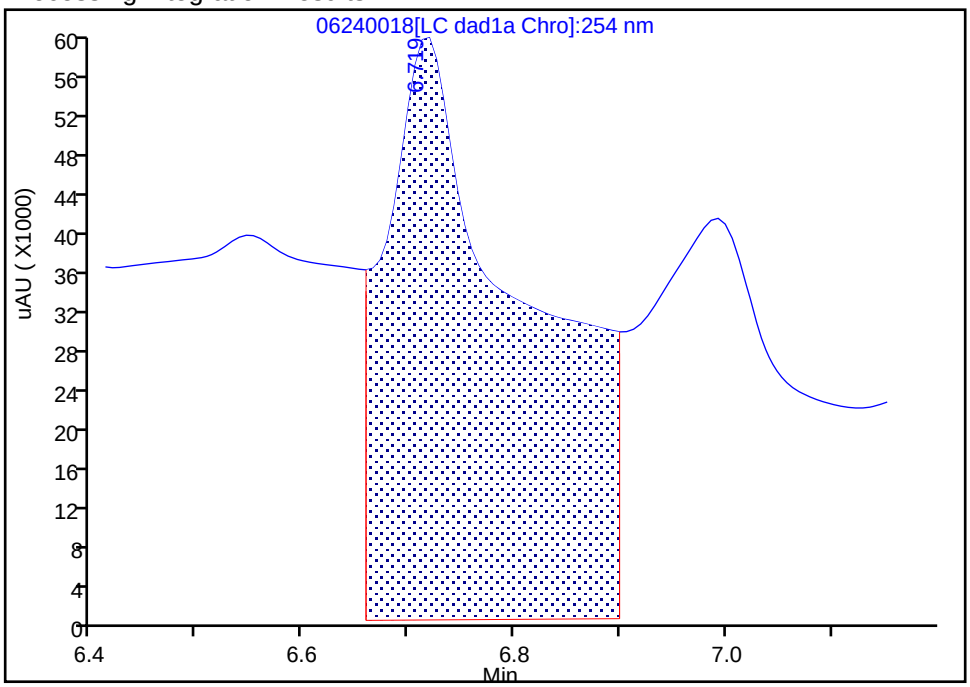
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240018.d				
Injection Date:	24-Jun-2020 20:29:05	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6		
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

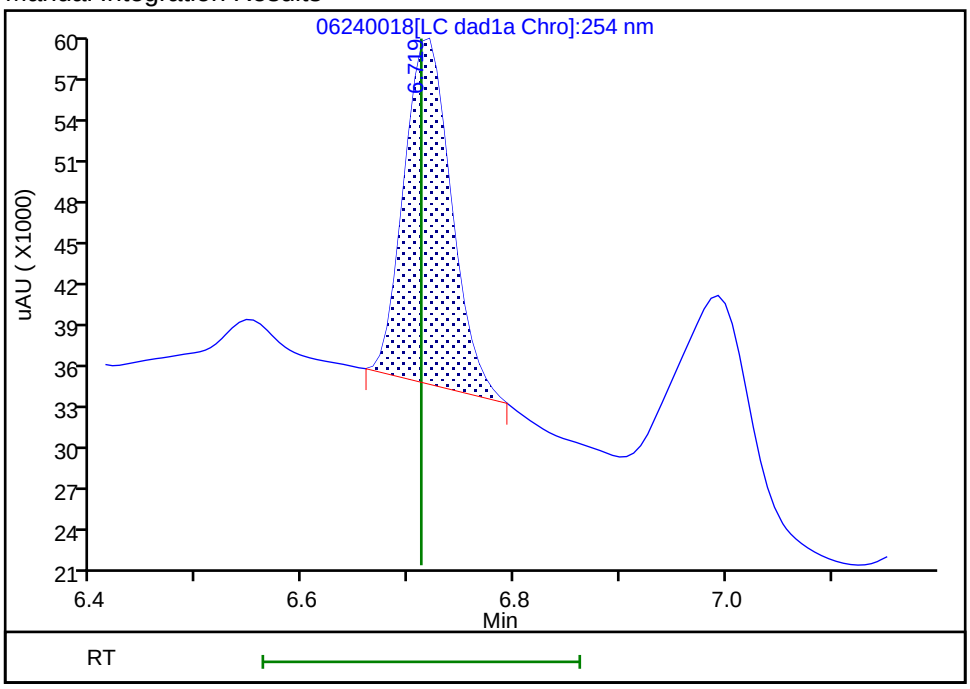
Processing Integration Results

RT: 6.72
Area: 553413
Amount: 6.437867
Amount Units: ug/mL



Manual Integration Results

RT: 6.72
Area: 77415
Amount: 0.900571
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 20:55:12

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

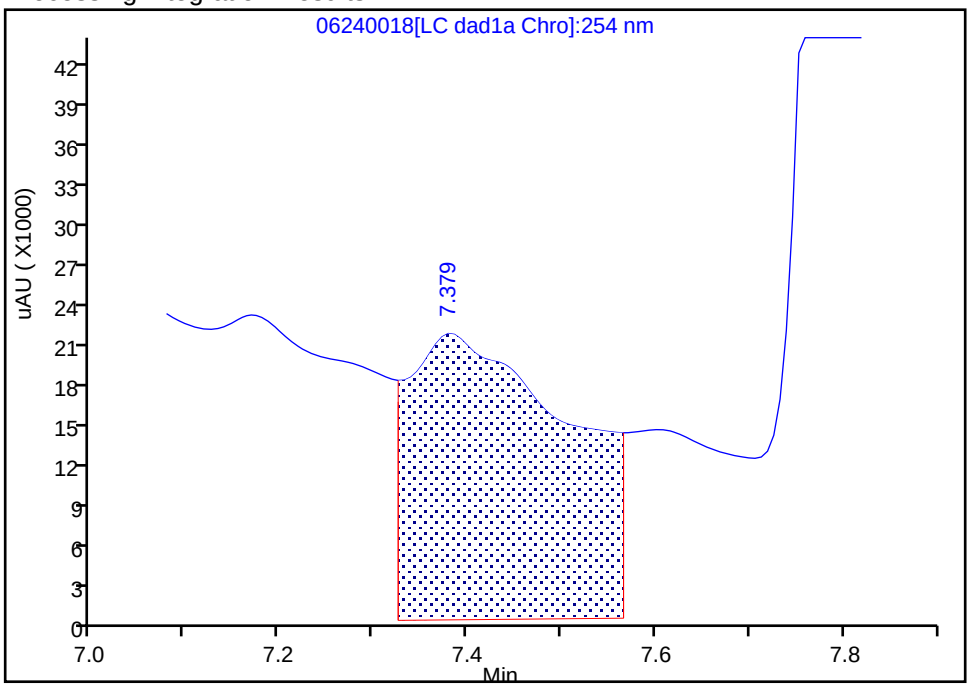
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240018.d				
Injection Date:	24-Jun-2020 20:29:05	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6		
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

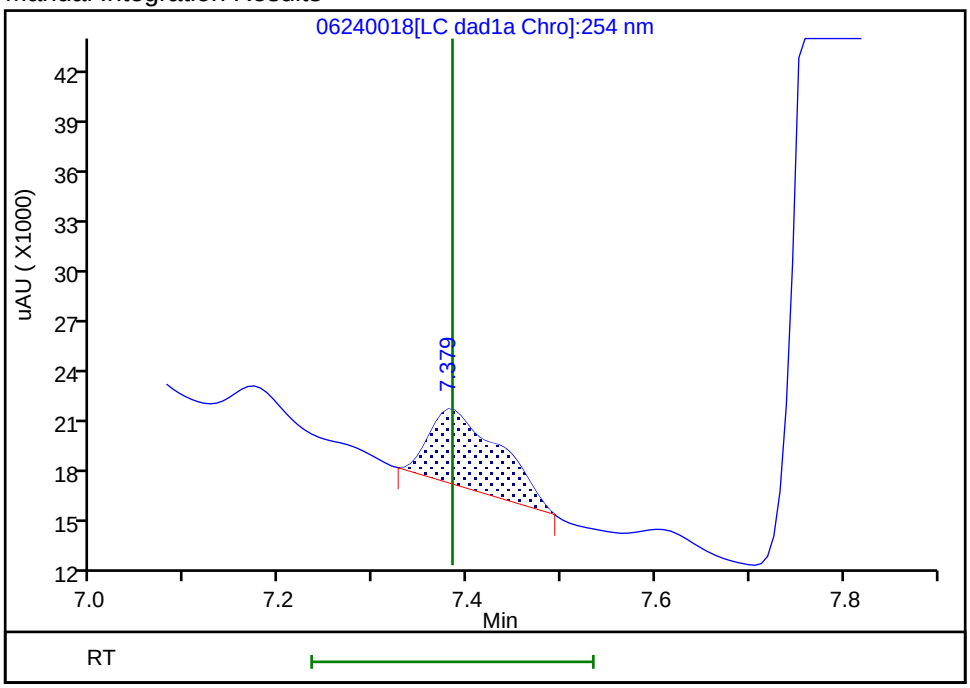
Processing Integration Results

RT: 7.38
Area: 246421
Amount: 1.554273
Amount Units: ug/mL



Manual Integration Results

RT: 7.38
Area: 23708
Amount: 0.149536
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 20:55:17

Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

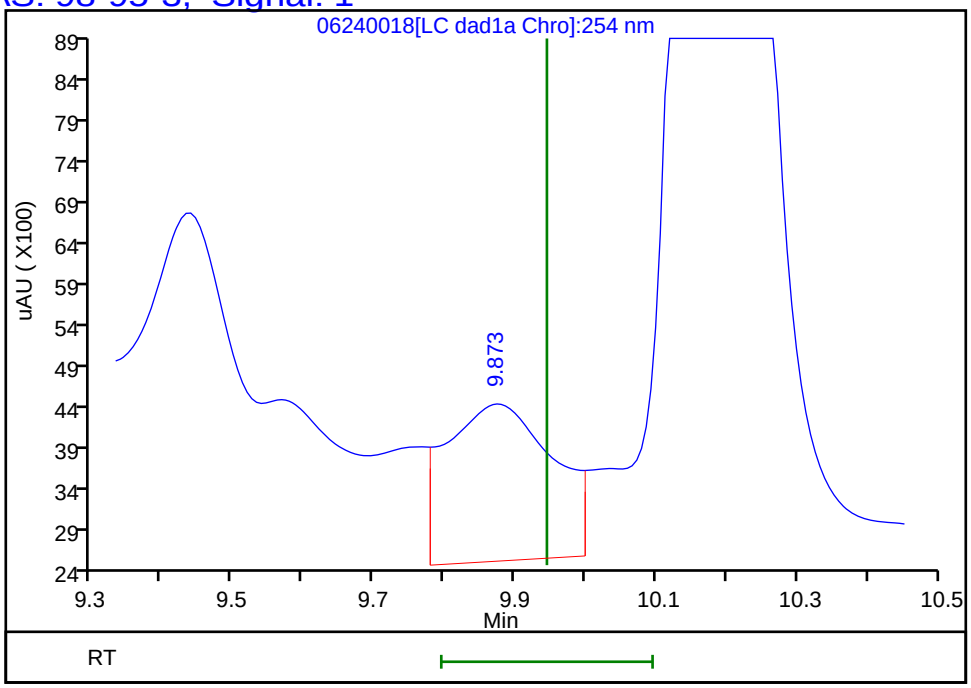
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240018.d
Injection Date: 24-Jun-2020 20:29:05 Instrument ID: CHHPLC_X3
Lims ID: 280-137736-A-6-A Lab Sample ID: 280-137736-6
Client ID: G0096-20A
Operator ID: JZ ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

12 Nitrobenzene, CAS: 98-95-3, Signal: 1

RT: 9.87
Response: 20041
Amount: 0.100004



Reviewer: zhangji, 24-Jun-2020 20:56:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

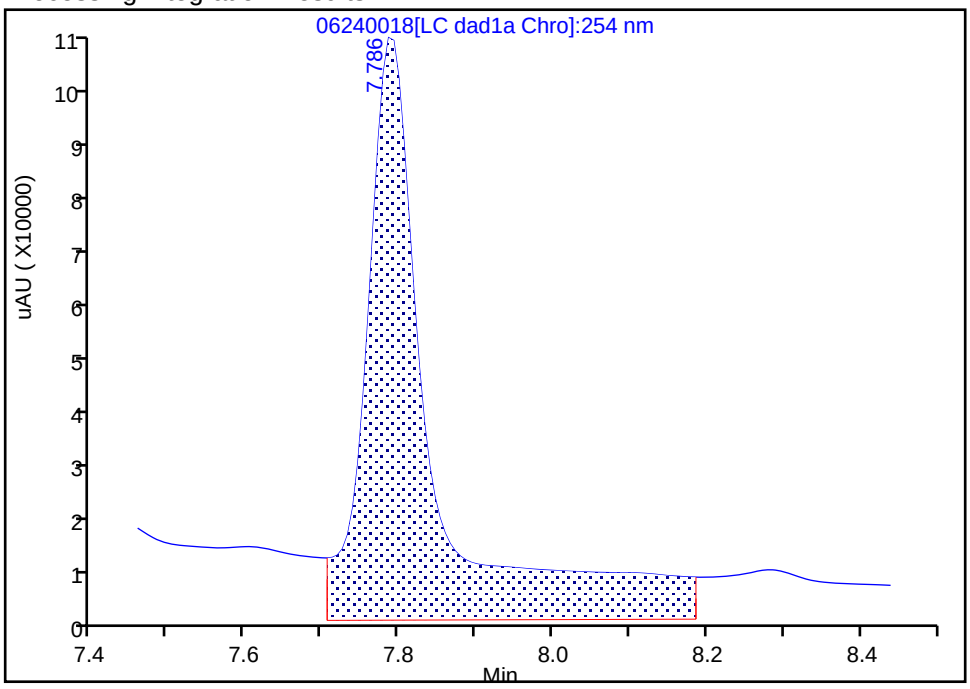
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240018.d				
Injection Date:	24-Jun-2020 20:29:05	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6		
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

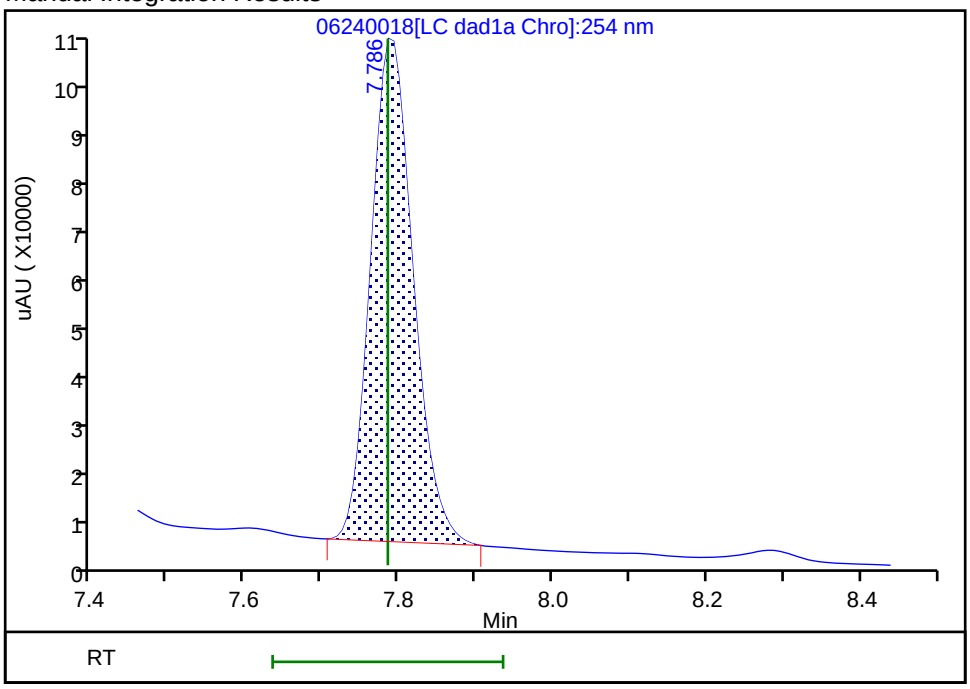
Processing Integration Results

RT: 7.79
Area: 650955
Amount: 5.582179
Amount Units: ug/mL



Manual Integration Results

RT: 7.79
Area: 371124
Amount: 3.182525
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 20:55:21
Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

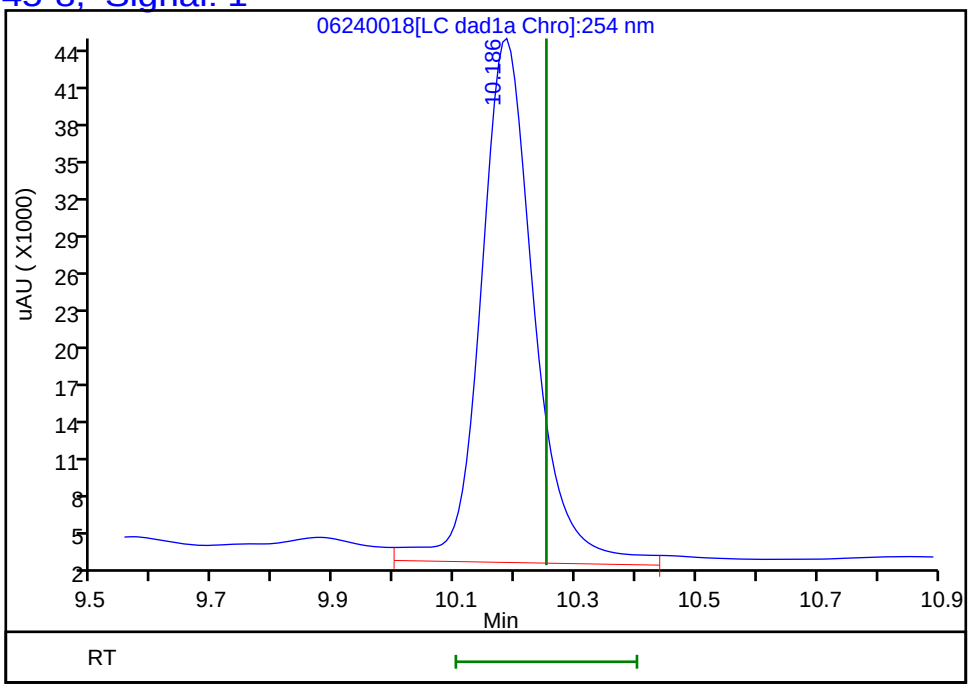
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240018.d

Injection Date:	24-Jun-2020 20:29:05	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6		
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.19
Response: 258504
Amount: 1.460211



Reviewer: zhangji, 24-Jun-2020 20:56:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0096-20A Lab Sample ID: 280-137736-6

Matrix: Water Lab File ID: 06260017.D

Analysis Method: 8330A Date Collected: 06/16/2020 09:40

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 463.2(mL) Date Analyzed: 06/27/2020 00:24

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

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

Analysis Batch No.: 500326 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
121-14-2	*2,4-Dinitrotoluene*	*0.11*	*J1*	*0.11*	0.086	*0.030*

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260017.D
Lims ID: 280-137736-A-6-A
Client ID: G0096-20A
Sample Type: Client
Inject. Date: 27-Jun-2020 00:24:38 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-6-A
Misc. Info.: 280-0092796-017
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 15:27:55 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 27-Jun-2020 11:57:58

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
	6 HMX	1	7.128	7.154	-0.026	153489	0.8370	
	7 MNX	1	7.881	7.919	-0.038	47168	0.1565	
	8 RDX	1	9.328	9.367	-0.039	757402	3.10	E
	9 Nitrobenzene	1		12.274			ND	
$	10 1,2-Dinitrobenzene	1	13.241	13.281	-0.040	51762	0.1801	M
	12 1,3-Dinitrobenzene	1	15.761	15.814	-0.053	6448	0.009564	
	14 o-Nitrotoluene	1		16.754			ND	U
	15 p-Nitrotoluene	1		17.034			ND	
	16 4-Amino-2,6-dinitrotoluene	1	17.421	17.474	-0.053	56392	0.1633	
	17 m-Nitrotoluene	1		17.967			ND	U
	18 2-Amino-4,6-dinitrotoluene	1	18.355	18.407	-0.052	52828	0.1136	
	19 1,3,5-Trinitrobenzene	1	19.101	19.147	-0.046	539096	1.14	
	20 2,6-Dinitrotoluene	1		20.074			ND	
	21 2,4-Dinitrotoluene	1	20.588	20.587	0.001	6711	0.0105	
	22 Tetryl	1		23.887			ND	
	23 2,4,6-Trinitrotoluene	1	24.875	24.907	-0.032	30200	0.0673	M

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
Review Flags
M - Manually Integrated
U - Marked Undetected

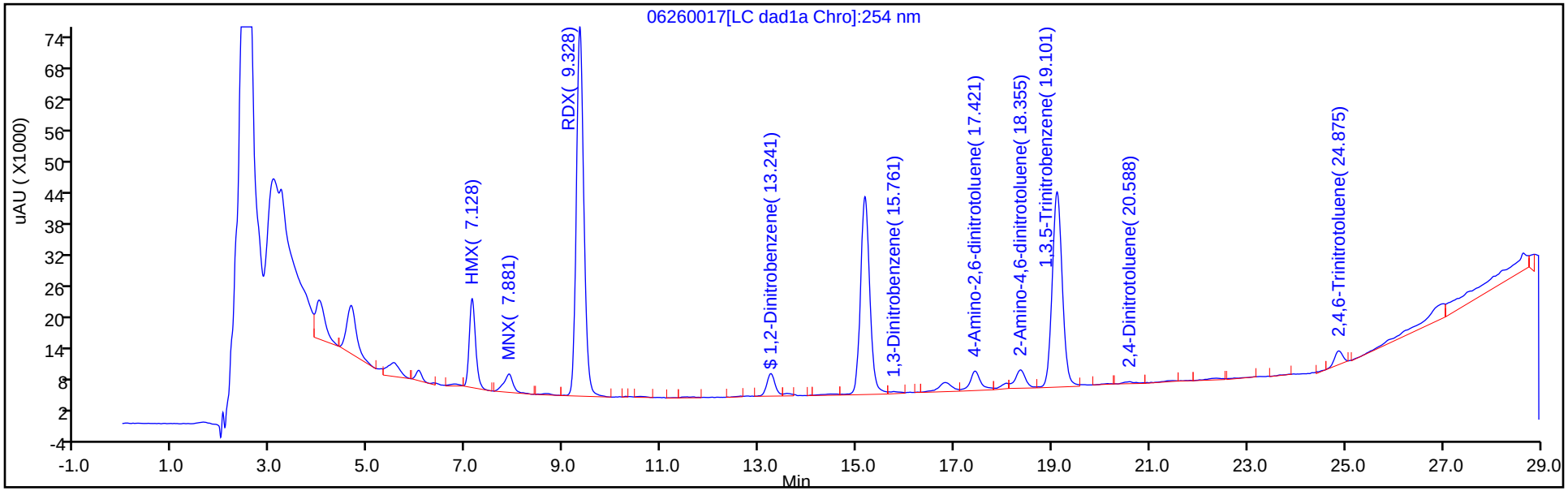
Report Date: 27-Jun-2020 15:27:59 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

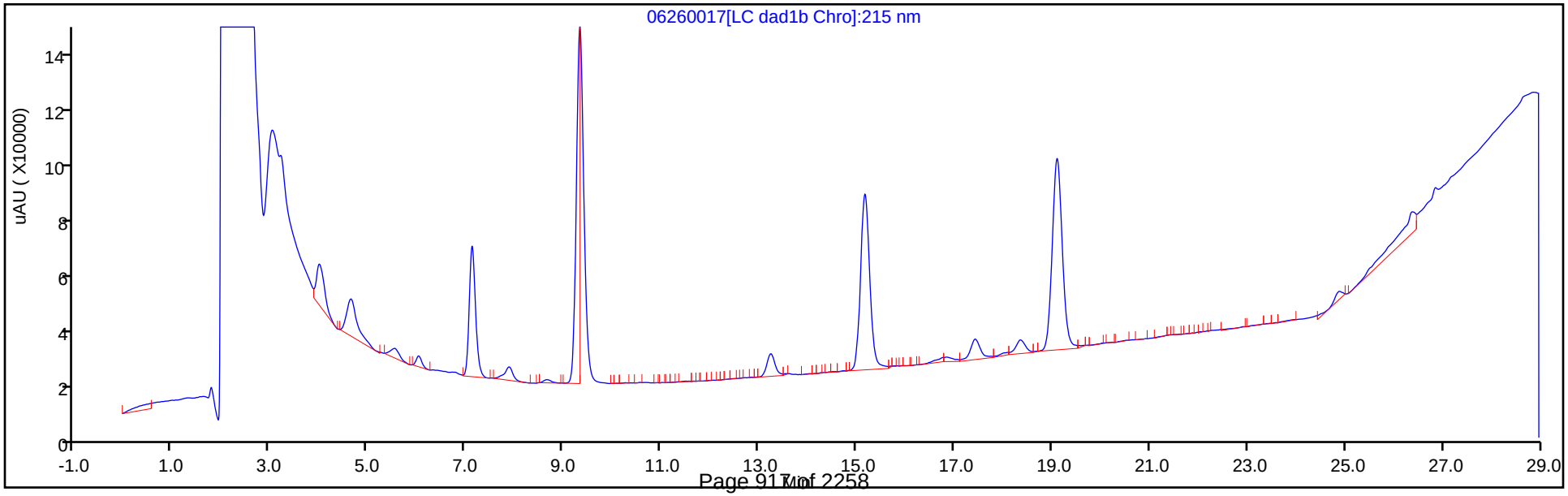
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260017.d

Injection Date:	27-Jun-2020 00:24:38	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137736-A-6-A	Lab Sample ID:		Worklist Smp#:	17
Client ID:	G0096-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260017.D				
Lims ID:	280-137736-A-6-A				
Client ID:	G0096-20A				
Sample Type:	Client				
Inject. Date:	27-Jun-2020 00:24:38	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-6-A				
Misc. Info.:	280-0092796-017				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 15:27:55	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1036				
First Level Reviewer: zhangji		Date:	27-Jun-2020 11:57:58		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1801	90.04

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

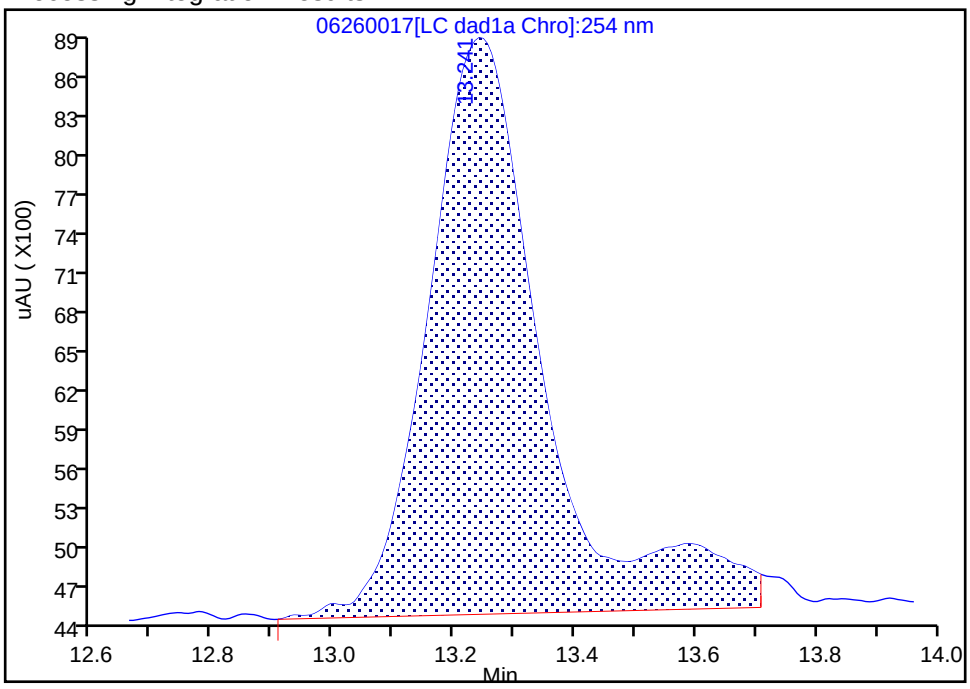
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260017.d				
Injection Date:	27-Jun-2020 00:24:38	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-6-A	Lab Sample ID:			
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

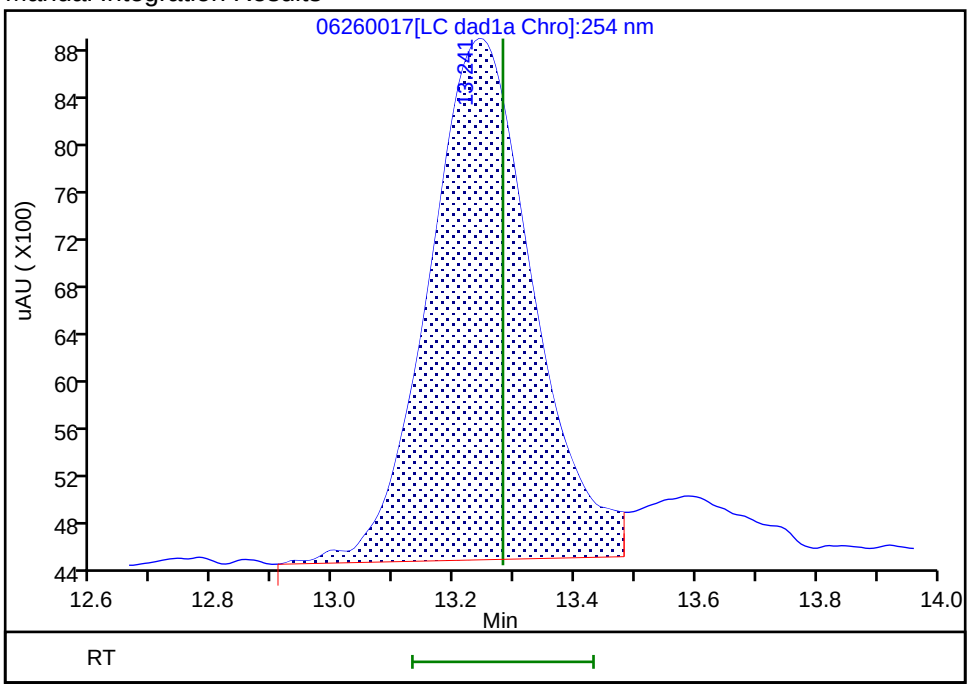
Processing Integration Results

RT: 13.24
Area: 57204
Amount: 0.199709
Amount Units: ug/ml



Manual Integration Results

RT: 13.24
Area: 51762
Amount: 0.180079
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:57:33

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

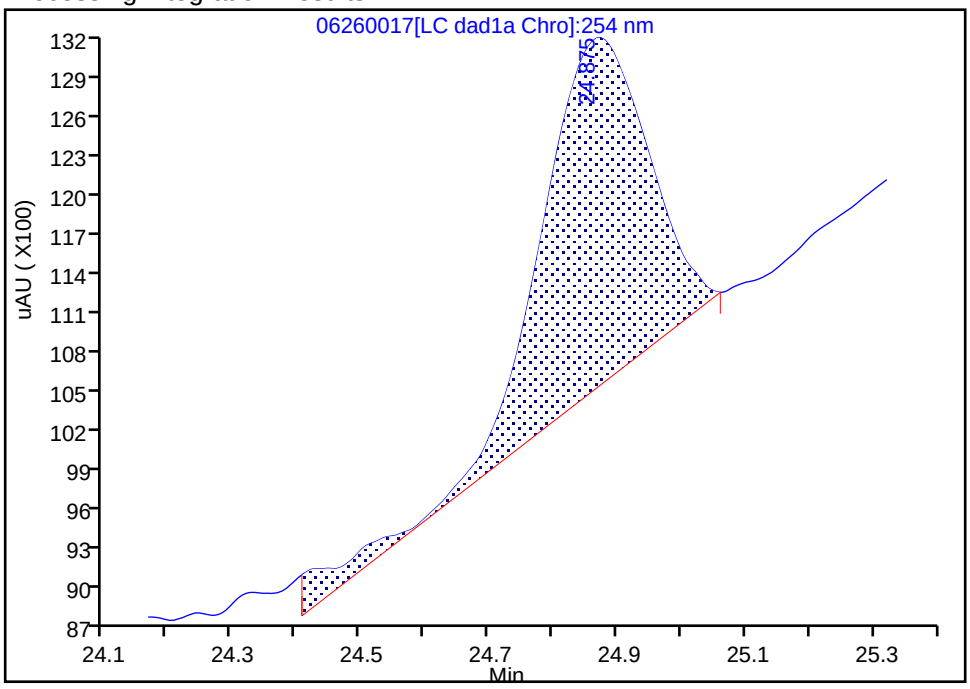
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260017.d				
Injection Date:	27-Jun-2020 00:24:38	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-6-A	Lab Sample ID:			
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

23 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

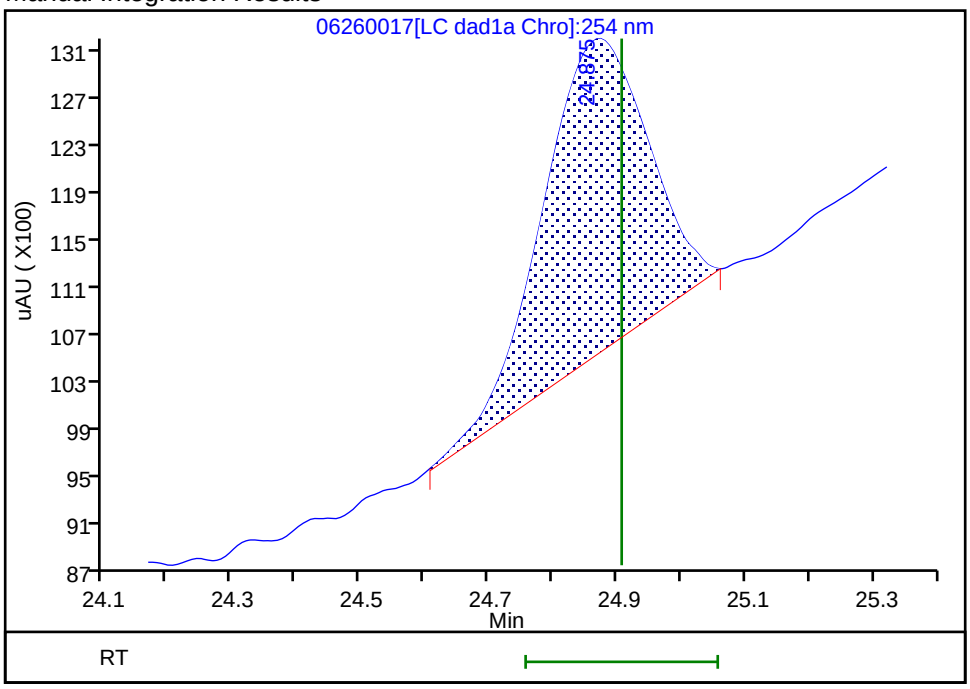
Processing Integration Results

RT: 24.87
Area: 31896
Amount: 0.071557
Amount Units: ug/ml



Manual Integration Results

RT: 24.87
Area: 30200
Amount: 0.067334
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:57:49

Audit Action: Split an Integrated Peak Audit Reason: Baseline

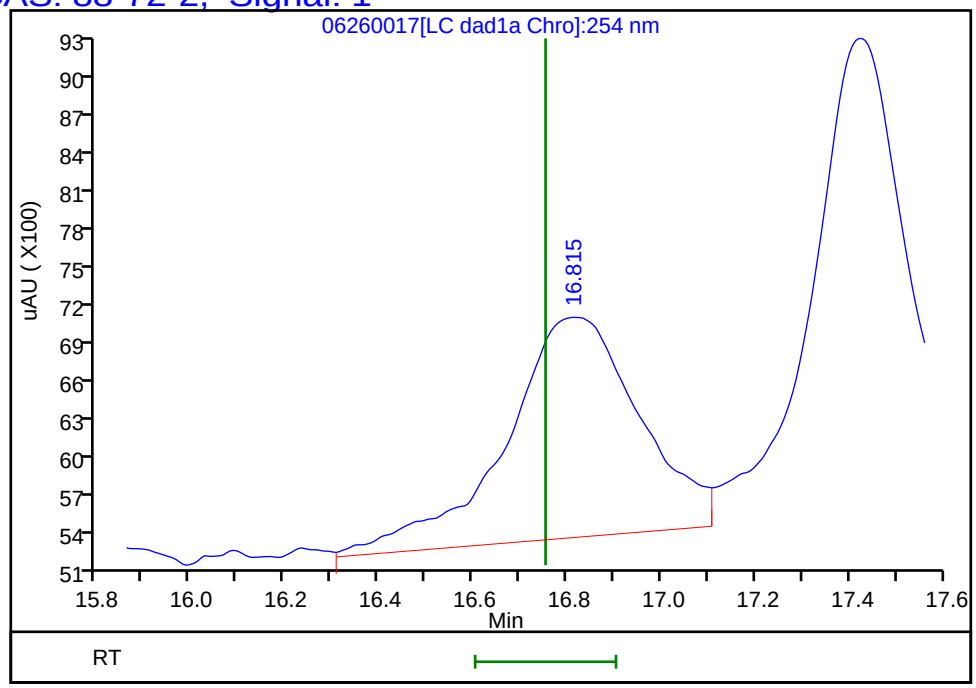
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260017.d				
Injection Date:	27-Jun-2020 00:24:38	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-6-A	Lab Sample ID:			
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.81
Response: 34296
Amount: 0.125643



Reviewer: zhangji, 27-Jun-2020 11:57:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

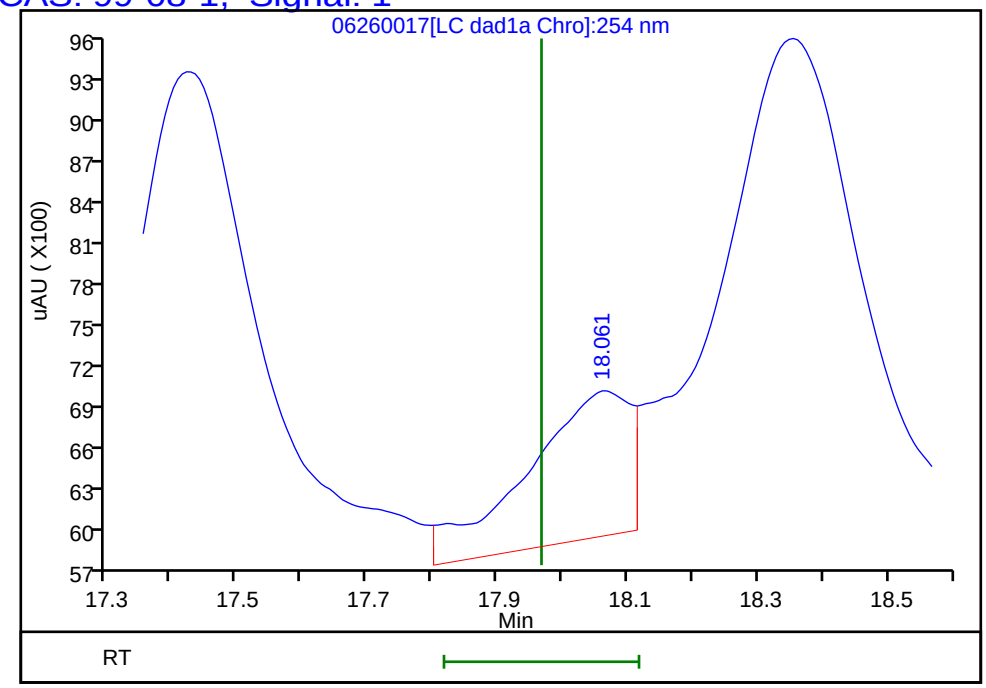
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260017.d				
Injection Date:	27-Jun-2020 00:24:38	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-6-A	Lab Sample ID:			
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 18.06
Response: 11802
Amount: 0.039561



Reviewer: zhangji, 27-Jun-2020 11:57:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0096-20A DL Lab Sample ID: 280-137736-6 DL

Matrix: Water Lab File ID: 06260011.D

Analysis Method: 8330A Date Collected: 06/16/2020 09:40

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 463.2(mL) Date Analyzed: 06/26/2020 18:44

Con. Extract Vol.: 5(mL) Dilution Factor: 10

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 500316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
121-82-4	RDX	36	D M	2.3	2.2	0.56

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	98	D	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\06260011.D
Lims ID: 280-137736-A-6-A
Client ID: G0096-20A
Sample Type: Client
Inject. Date: 26-Jun-2020 18:44:28 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 10.0000
Sample Info: 280-137736-A-6-A
Misc. Info.: 280-0092794-011
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 13:26:12 Calib Date: 26-Jun-2020 01:16:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 26-Jun-2020 19:11:40

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1	6.715	6.710	0.005	7700	0.0896	M
6 MNX	1	7.382	7.384	-0.002	1417	0.008938	M
7 RDX	1	7.788	7.790	-0.002	38828	0.3330	M
$ 9 1,2-Dinitrobenzene	1	8.755	8.756	-0.001	2715	0.0196	
10 1,3,5-Trinitrobenzene	1	8.935	8.930	0.005	27772	0.1206	
11 1,3-Dinitrobenzene	1		9.583			ND	
12 Nitrobenzene	1		9.963			ND	
14 Tetryl	1		10.283			ND	U
16 2,4,6-Trinitrotoluene	1	11.242	11.250	-0.008	1850	0.009067	
17 4-Amino-2,6-dinitrotoluene	1	11.415	11.423	-0.008	2150	0.0186	
18 2-Amino-4,6-dinitrotoluene	1	11.708	11.716	-0.008	1936	0.009546	
19 2,6-Dinitrotoluene	1		11.850			ND	
20 2,4-Dinitrotoluene	1		12.050			ND	
21 o-Nitrotoluene	1		12.870			ND	
22 p-Nitrotoluene	1		13.310			ND	
23 m-Nitrotoluene	1		13.896			ND	

QC Flag Legend

Review Flags
M - Manually Integrated
U - Marked Undetected

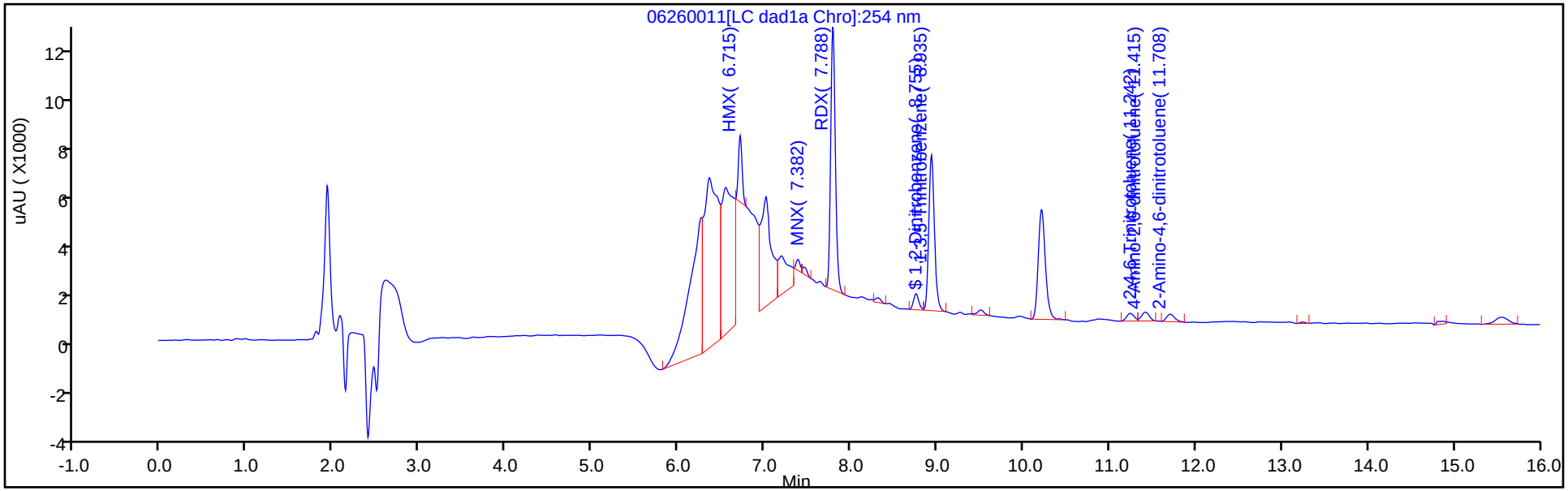
Report Date: 27-Jun-2020 13:26:13 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

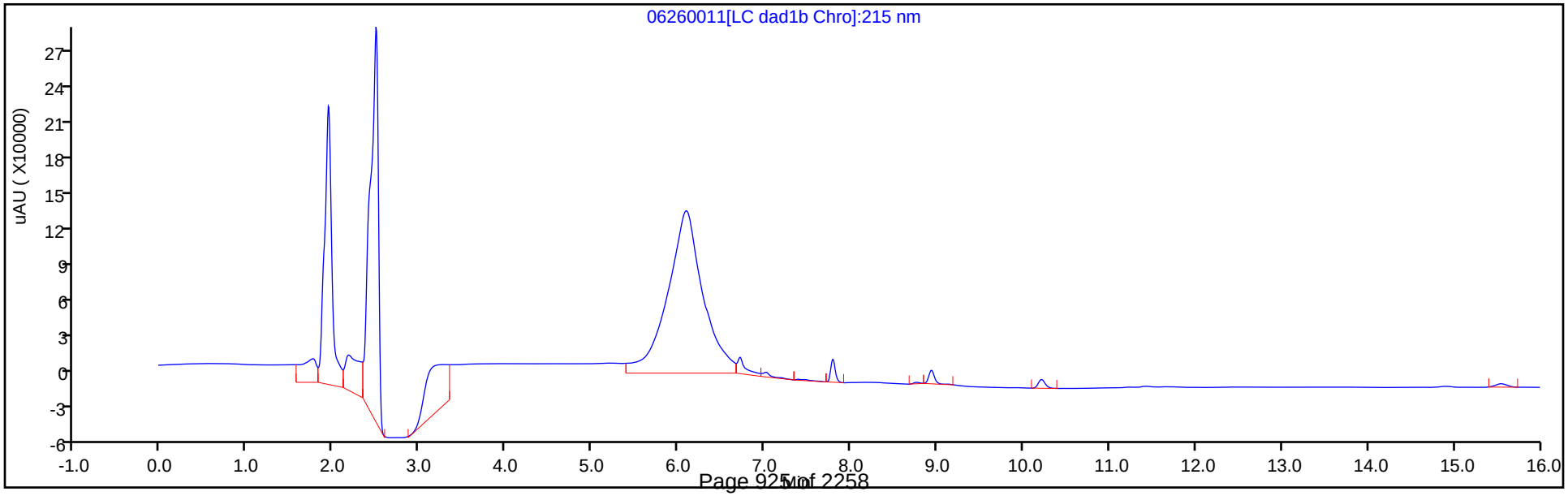
Data File: \\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260011.d

Injection Date:	26-Jun-2020 18:44:28	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6	Worklist Smp#:	11
Client ID:	G0096-20A				
Injection Vol:	100.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	11
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\06260011.D				
Lims ID:	280-137736-A-6-A				
Client ID:	G0096-20A				
Sample Type:	Client				
Inject. Date:	26-Jun-2020 18:44:28	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137736-A-6-A				
Misc. Info.:	280-0092794-011				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 13:26:12	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1036				

First Level Reviewer: zhangji Date: 26-Jun-2020 19:11:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.0196	9.82

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

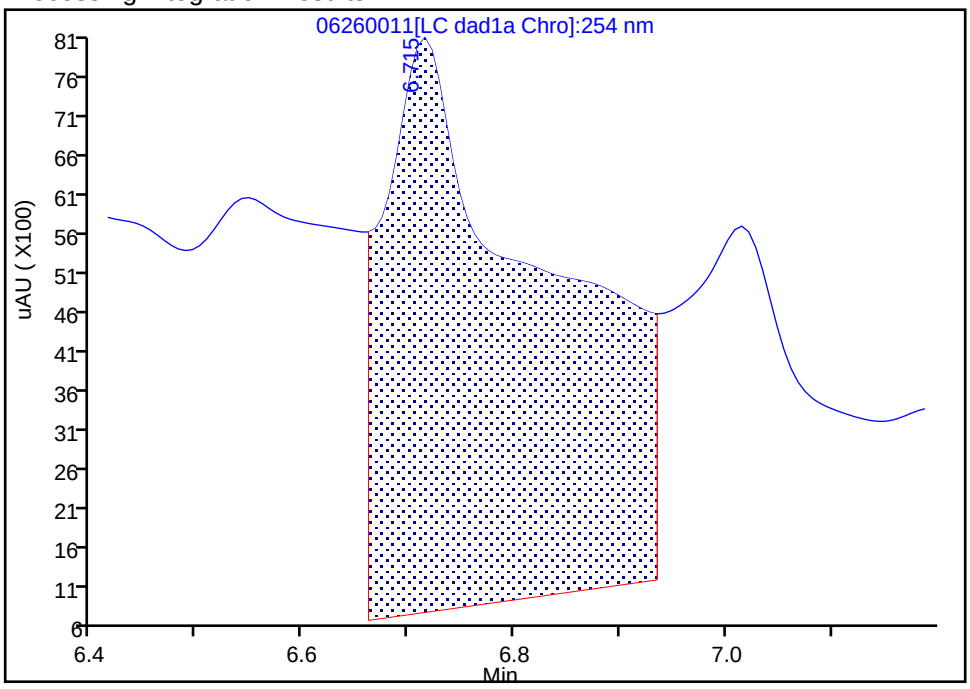
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260011.d				
Injection Date:	26-Jun-2020 18:44:28	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6		
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

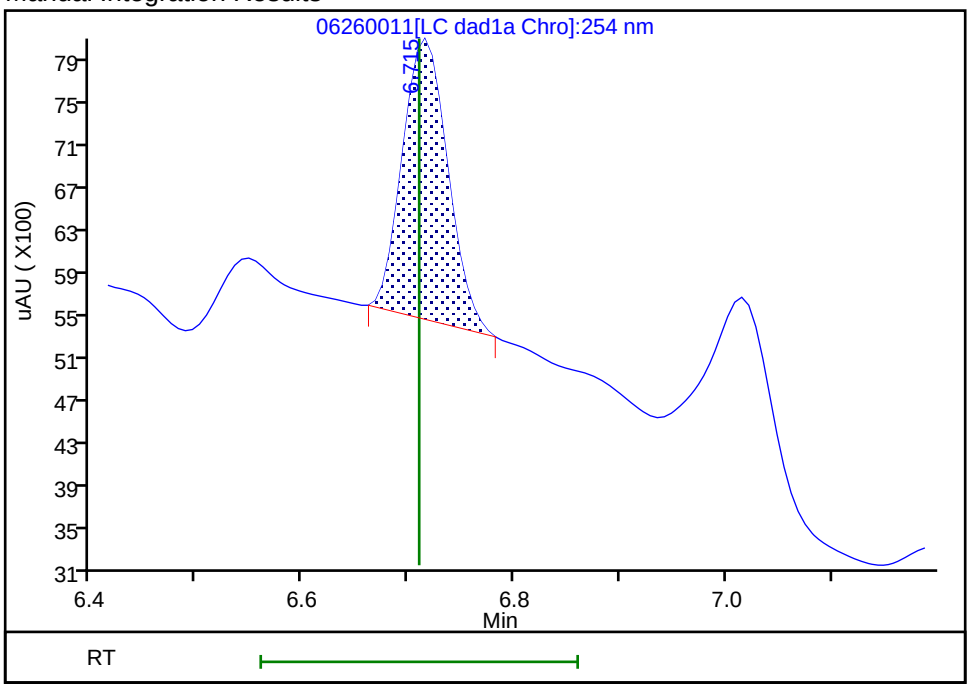
Processing Integration Results

RT: 6.72
Area: 77402
Amount: 0.900419
Amount Units: ug/mL



Manual Integration Results

RT: 6.72
Area: 7700
Amount: 0.089574
Amount Units: ug/mL



Reviewer: zhangji, 26-Jun-2020 19:10:59

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

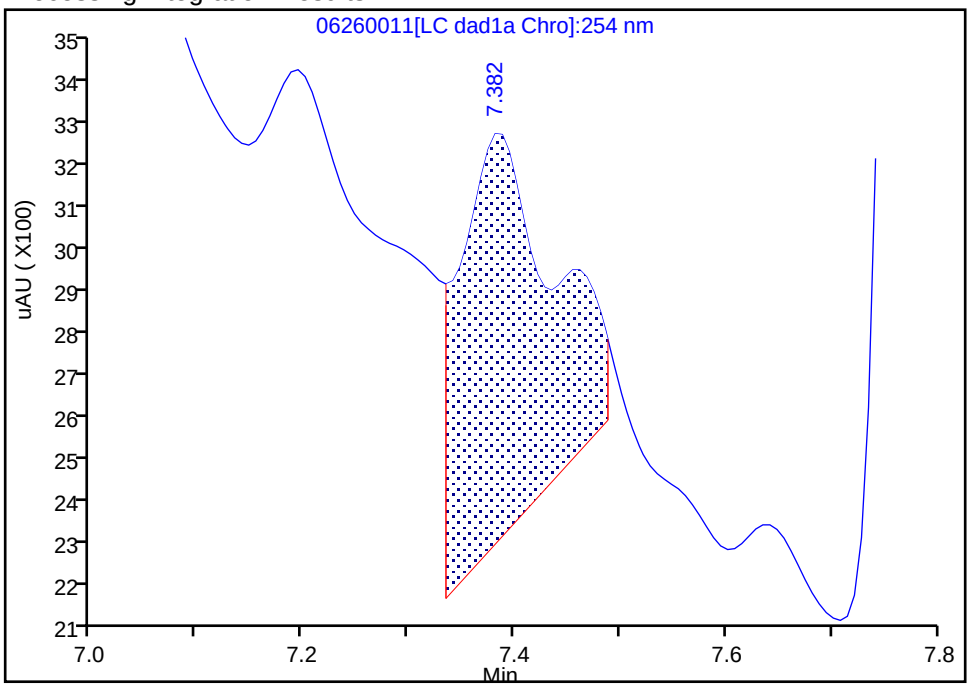
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260011.d				
Injection Date:	26-Jun-2020 18:44:28	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6		
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

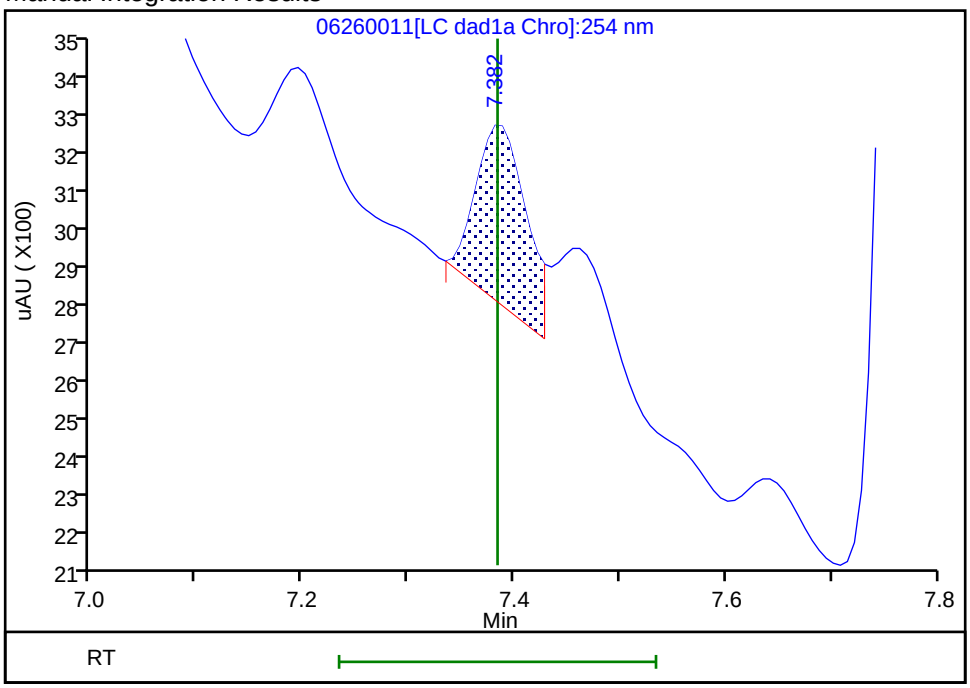
Processing Integration Results

RT: 7.38
Area: 5399
Amount: 0.034054
Amount Units: ug/mL



Manual Integration Results

RT: 7.38
Area: 1417
Amount: 0.008938
Amount Units: ug/mL



Reviewer: zhangji, 26-Jun-2020 19:11:10

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

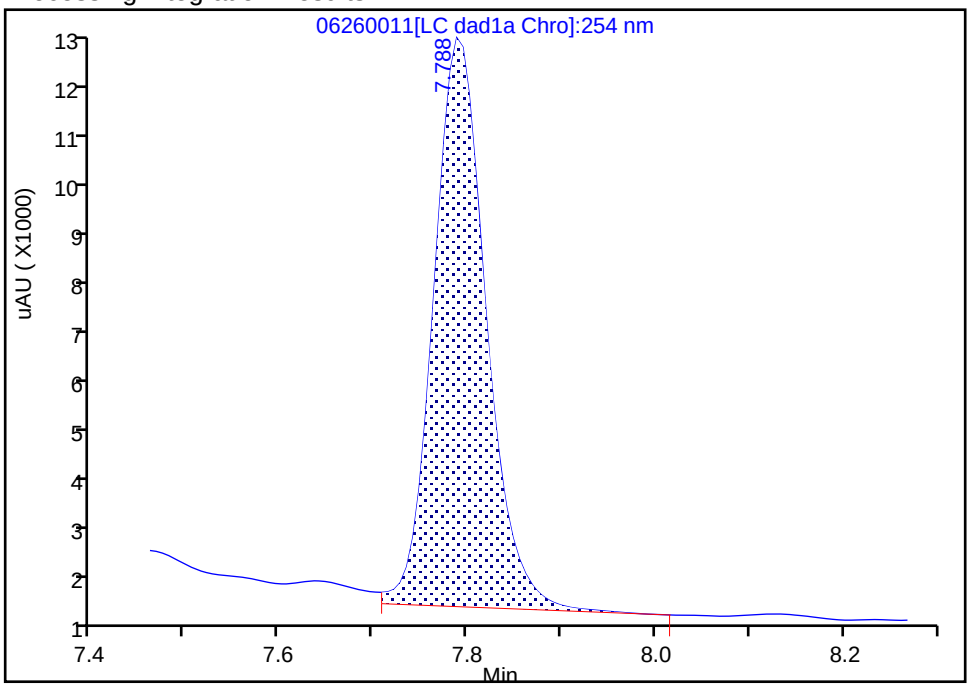
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260011.d				
Injection Date:	26-Jun-2020 18:44:28	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6		
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

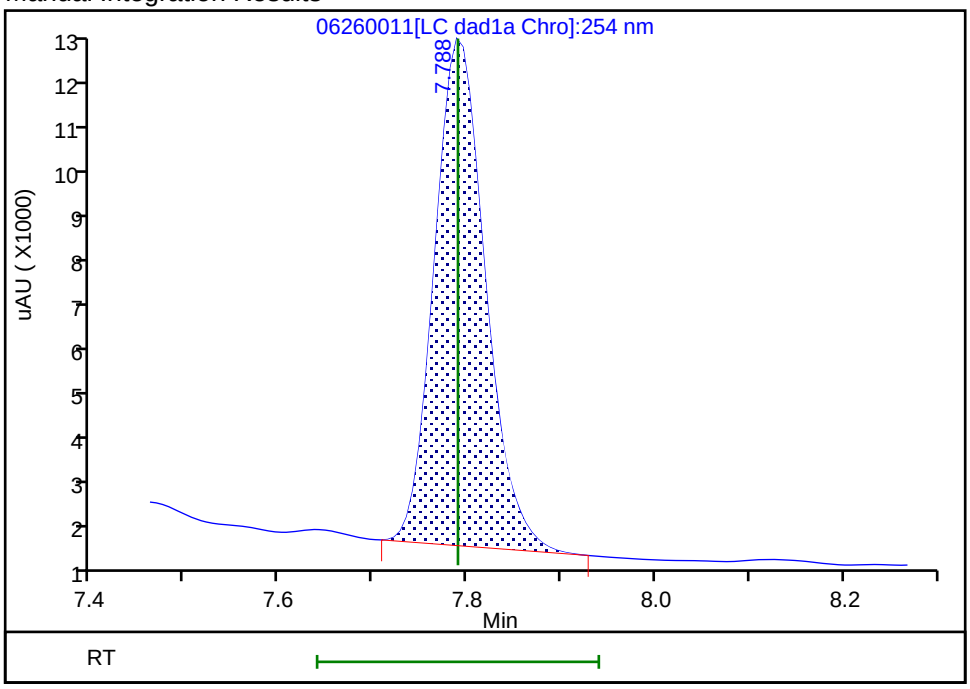
Processing Integration Results

RT: 7.79
Area: 40525
Amount: 0.347517
Amount Units: ug/mL



Manual Integration Results

RT: 7.79
Area: 38828
Amount: 0.332964
Amount Units: ug/mL



Reviewer: zhangji, 26-Jun-2020 19:11:20

Audit Action: Manually Integrated Audit Reason: Baseline

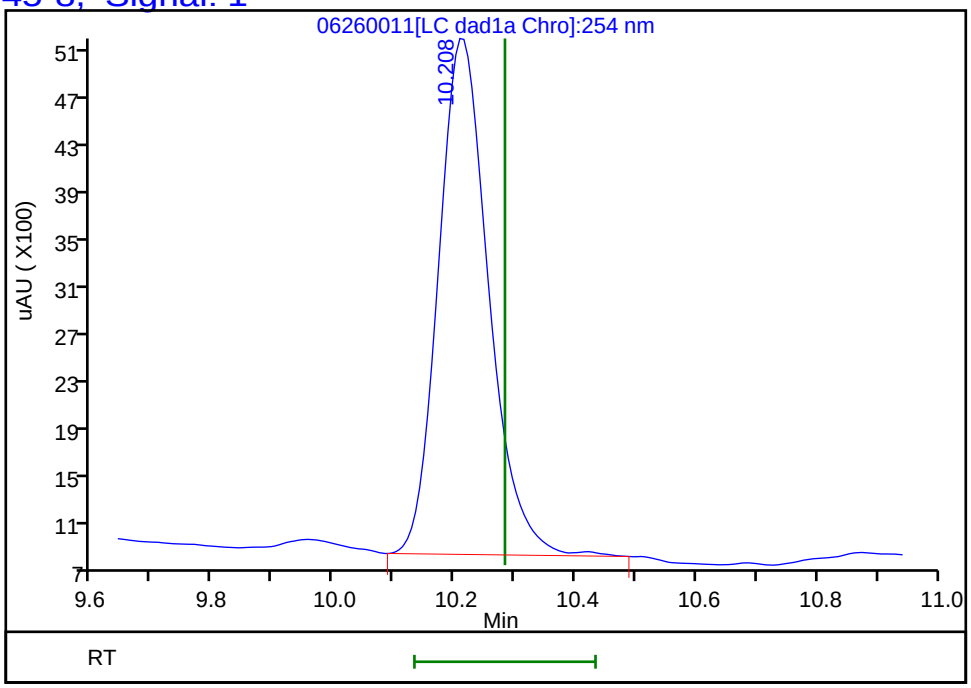
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260011.d				
Injection Date:	26-Jun-2020 18:44:28	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6		
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.21
Response: 24858
Amount: 0.140415



Reviewer: zhangji, 26-Jun-2020 19:11:40
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0096-20A DL Lab Sample ID: 280-137736-6 DL

Matrix: Water Lab File ID: 06260018.D

Analysis Method: 8330A Date Collected: 06/16/2020 09:40

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 463.2(mL) Date Analyzed: 06/27/2020 00:59

Con. Extract Vol.: 5(mL) Dilution Factor: 10

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

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

Analysis Batch No.: 500326 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	83	*M*	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260018.D
Lims ID: 280-137736-A-6-A
Client ID: G0096-20A
Sample Type: Client
Inject. Date: 27-Jun-2020 00:59:36 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 10.0000
Sample Info: 280-137736-A-6-A
Misc. Info.: 280-0092796-018
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 15:27:55 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 27-Jun-2020 11:58:21

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
	6 HMX	1	7.142	7.154	-0.012	17373	0.0681	
	7 MNX	1	7.875	7.919	-0.044	6758	0.005056	
	8 RDX	1	9.341	9.367	-0.026	78024	0.3193	
	9 Nitrobenzene	1	12.421	12.274	0.147	852	0.001940	7M
$	10 1,2-Dinitrobenzene	1	13.255	13.281	-0.026	6419	0.0165	M
	12 1,3-Dinitrobenzene	1		15.814			ND	
	14 o-Nitrotoluene	1		16.754			ND	U
	15 p-Nitrotoluene	1		17.034			ND	
	16 4-Amino-2,6-dinitrotoluene	1	17.481	17.474	0.007	6689	0.0194	
	17 m-Nitrotoluene	1		17.967			ND	U
	18 2-Amino-4,6-dinitrotoluene	1	18.375	18.407	-0.032	7294	0.0157	
	19 1,3,5-Trinitrobenzene	1	19.108	19.147	-0.039	56260	0.1191	
	20 2,6-Dinitrotoluene	1		20.074			ND	
	21 2,4-Dinitrotoluene	1		20.587			ND	
	22 Tetryl	1		23.887			ND	
	23 2,4,6-Trinitrotoluene	1		24.907			ND	

QC Flag Legend

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

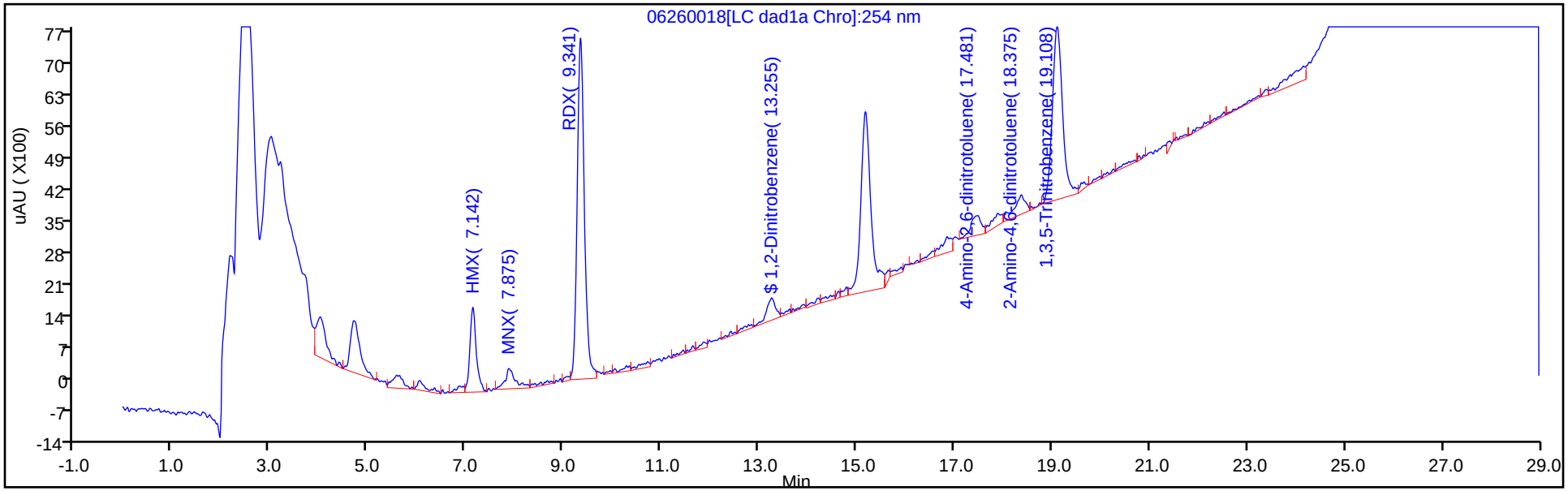
Report Date: 27-Jun-2020 15:27:59 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

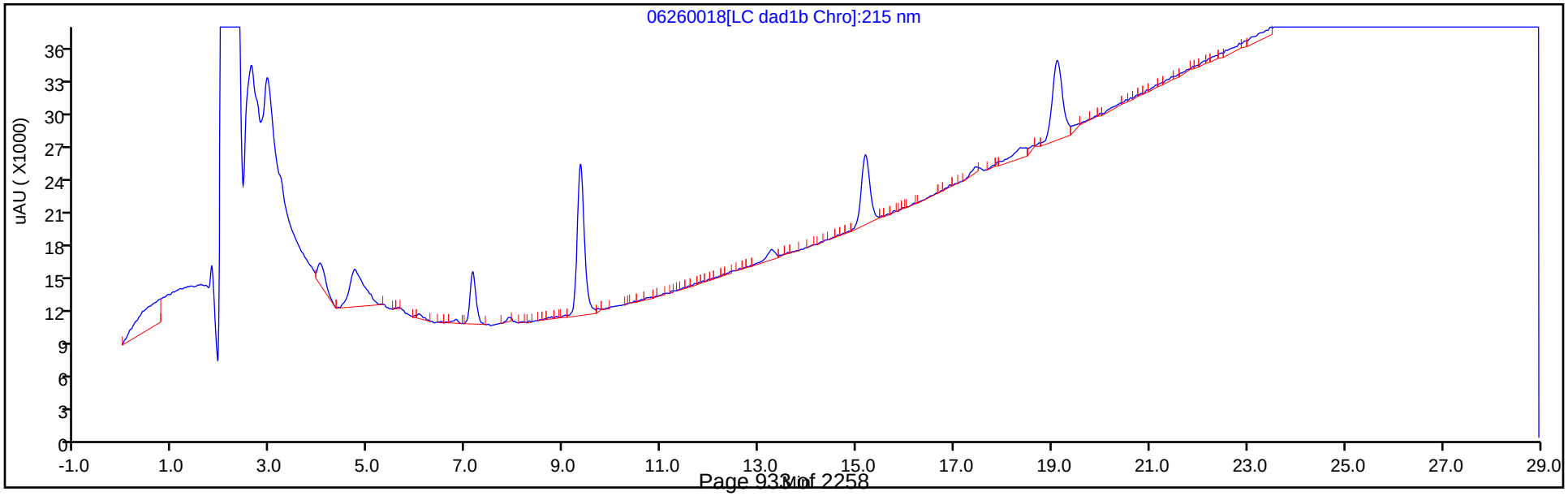
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260018.d

Injection Date:	27-Jun-2020 00:59:36	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6	Worklist Smp#:	18
Client ID:	G0096-20A				
Injection Vol:	100.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	18
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260018.D				
Lims ID:	280-137736-A-6-A				
Client ID:	G0096-20A				
Sample Type:	Client				
Inject. Date:	27-Jun-2020 00:59:36	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137736-A-6-A				
Misc. Info.:	280-0092796-018				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 15:27:55	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1036				
First Level Reviewer: zhangji		Date:	27-Jun-2020 11:58:21		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.0165	8.26

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

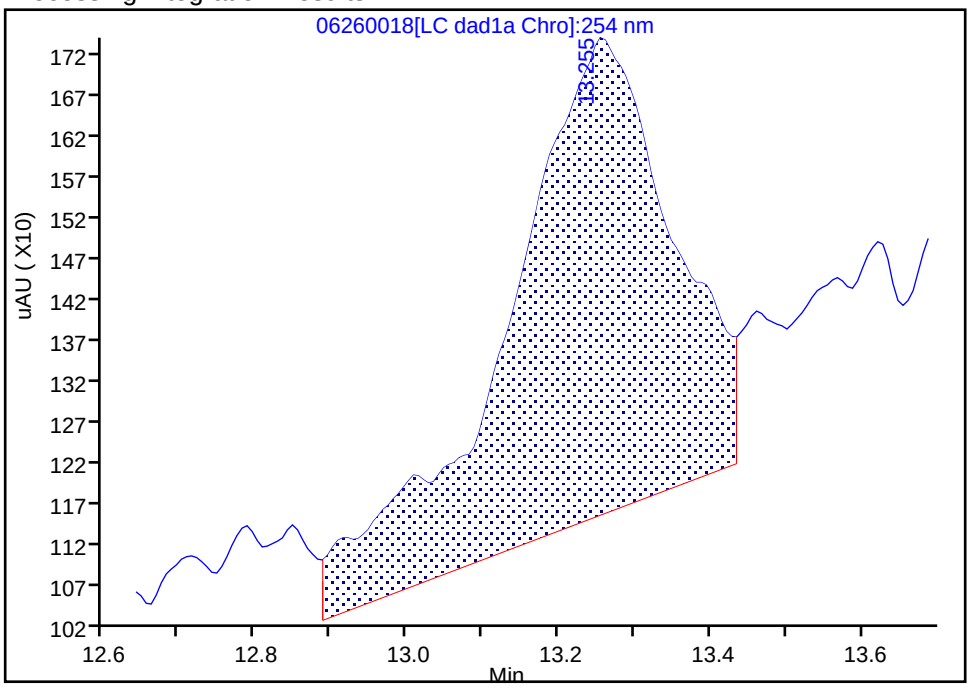
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260018.d				
Injection Date:	27-Jun-2020 00:59:36	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6		
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

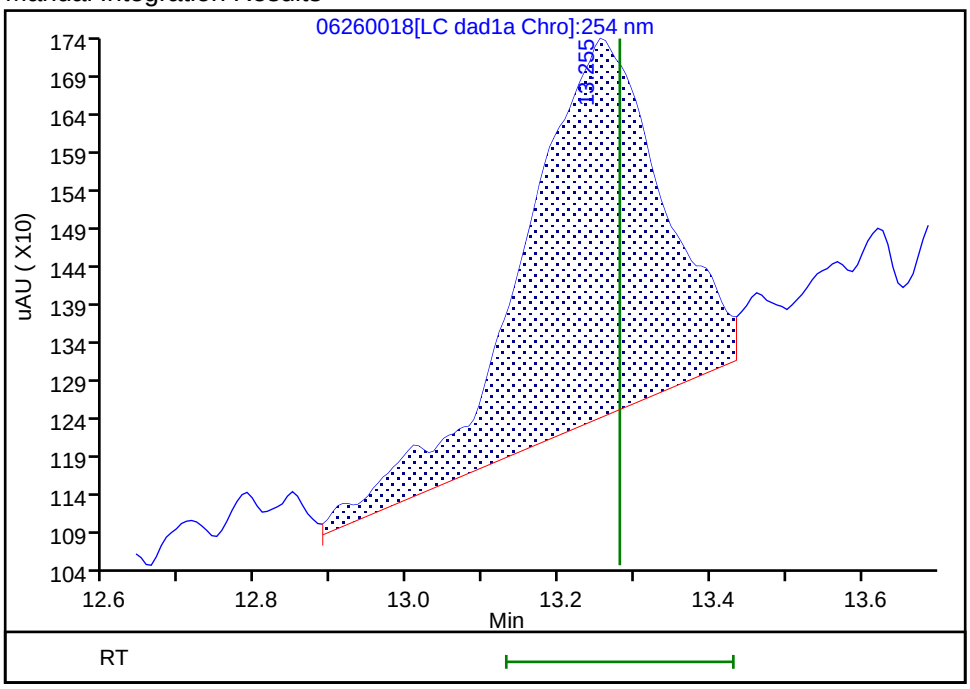
Processing Integration Results

RT: 13.25
Area: 9010
Amount: 0.025867
Amount Units: ug/ml



Manual Integration Results

RT: 13.25
Area: 6419
Amount: 0.016521
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:58:19
Audit Action: Assigned New Baseline Audit Reason: Baseline

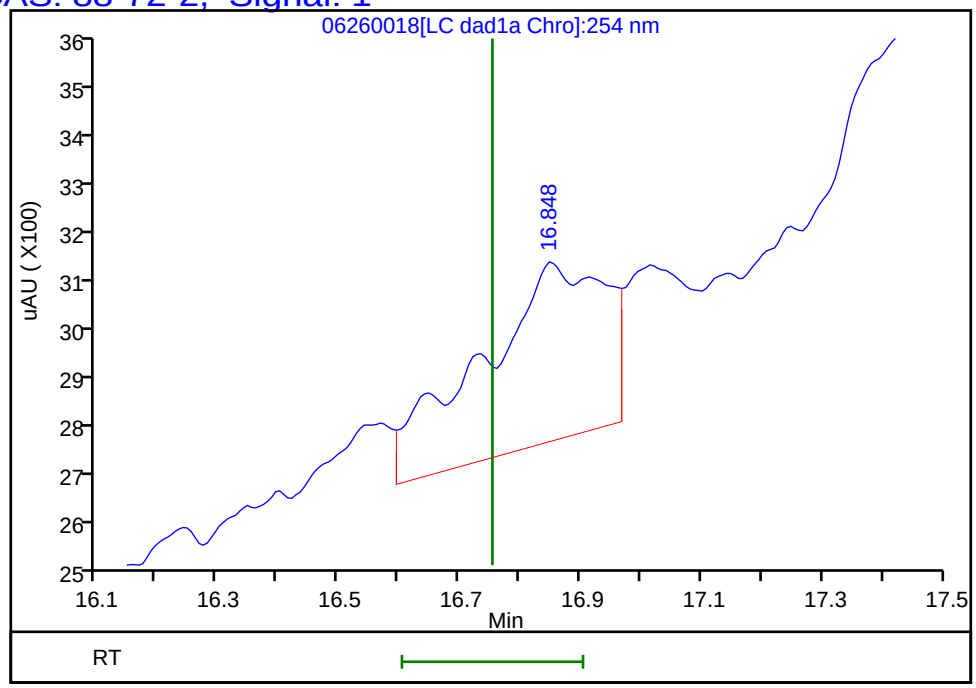
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260018.d				
Injection Date:	27-Jun-2020 00:59:36	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6		
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.85
Response: 5145
Amount: 0.018849



Reviewer: zhangji, 27-Jun-2020 11:58:21
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

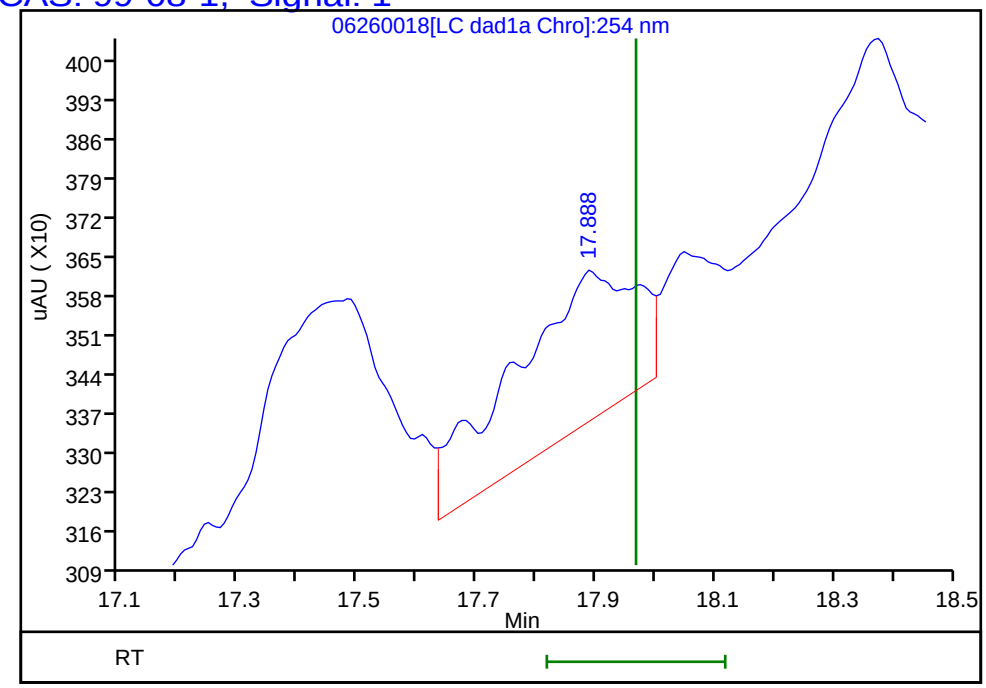
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260018.d				
Injection Date:	27-Jun-2020 00:59:36	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6		
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 17.89
Response: 4067
Amount: 0.013633



Reviewer: zhangji, 27-Jun-2020 11:58:21
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

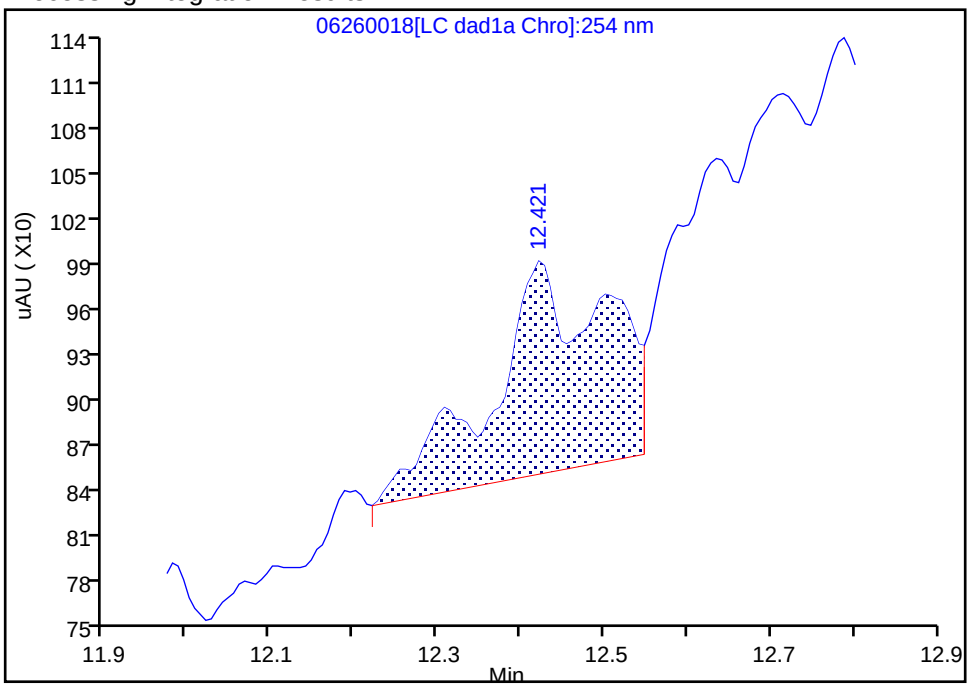
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260018.d				
Injection Date:	27-Jun-2020 00:59:36	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-6-A	Lab Sample ID:	280-137736-6		
Client ID:	G0096-20A				
Operator ID:	JZ	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

9 Nitrobenzene, CAS: 98-95-3

Signal: 1

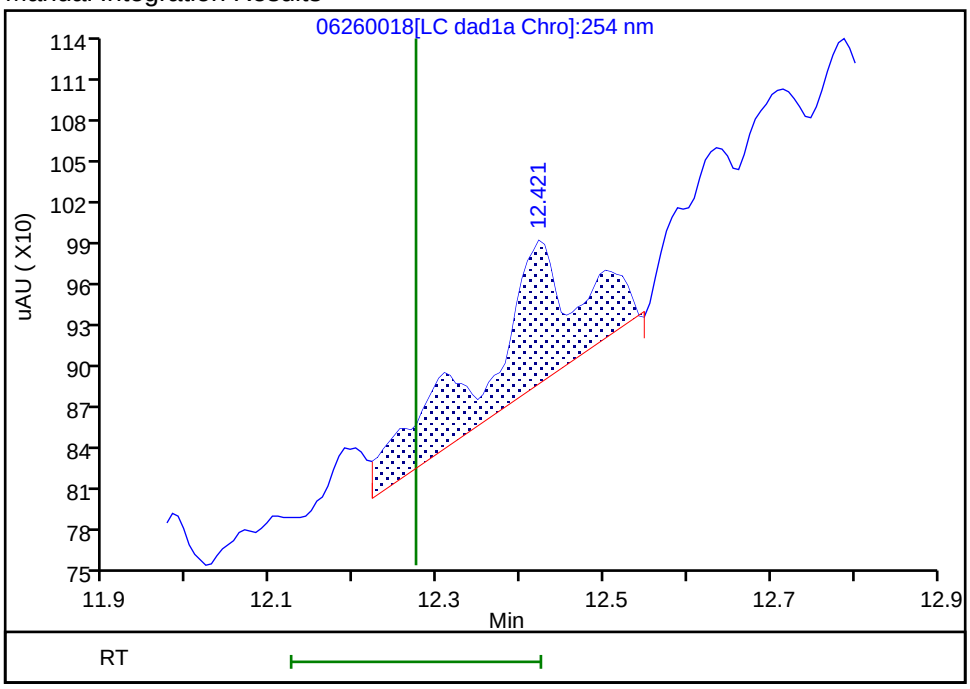
Processing Integration Results

RT: 12.42
Area: 1332
Amount: 0.003033
Amount Units: ug/ml



Manual Integration Results

RT: 12.42
Area: 852
Amount: 0.001940
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:58:19

Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0296-20A Lab Sample ID: 280-137736-7

Matrix: Water Lab File ID: 06240019.D

Analysis Method: 8330A Date Collected: 06/16/2020 08:00

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 470.3(mL) Date Analyzed: 06/24/2020 20:52

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499988 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	13	M	0.22	0.21	0.089
99-65-0	1,3-Dinitrobenzene	0.11	U M	0.12	0.11	0.039
118-96-7	2,4,6-Trinitrotoluene	1.0		0.12	0.11	0.048
121-14-2	2,4-Dinitrotoluene	0.10	J	0.11	0.085	0.029
606-20-2	2,6-Dinitrotoluene	0.085	U	0.11	0.085	0.043
35572-78-2	2-Amino-4,6-dinitrotoluene	1.1		0.12	0.11	0.054
88-72-2	2-Nitrotoluene	0.21	U M	0.22	0.21	0.091
99-08-1	3-Nitrotoluene	0.43	U	0.43	0.43	0.21
19406-51-0	4-Amino-2,6-dinitrotoluene	1.6		0.16	0.13	0.061
99-99-0	4-Nitrotoluene	0.43	U	0.44	0.43	0.11
2691-41-0	HMX	9.7	M	0.22	0.21	0.093
5755-27-1	MNX	1.5	J M	2.1	0.43	0.16
98-95-3	Nitrobenzene	0.21	U M	0.22	0.21	0.097
479-45-8	Tetryl	0.11	U M	0.12	0.11	0.034

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	98	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240019.D
Lims ID: 280-137736-A-7-A
Client ID: G0296-20A
Sample Type: Client
Inject. Date: 24-Jun-2020 20:52:07 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-7-A
Misc. Info.: 280-0092716-019
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:07 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 24-Jun-2020 21:48:41

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1	6.718	6.712	0.006	78259	0.9104	M
6 MNX	1	7.385	7.384	0.001	23042	0.1453	M
7 RDX	1	7.785	7.785	0.000	374582	3.21	EM
$ 9 1,2-Dinitrobenzene	1	8.745	8.738	0.007	27109	0.1961	M
10 1,3,5-Trinitrobenzene	1	8.925	8.918	0.007	271593	1.18	M
11 1,3-Dinitrobenzene	1		9.565			ND	MU
12 Nitrobenzene	1		9.945			ND	MU
14 Tetryl	1		10.252			ND	MU
16 2,4,6-Trinitrotoluene	1	11.211	11.225	-0.014	20131	0.0987	
17 4-Amino-2,6-dinitrotoluene	1	11.371	11.385	-0.014	25907	0.1518	
18 2-Amino-4,6-dinitrotoluene	1	11.665	11.678	-0.013	20566	0.1014	
19 2,6-Dinitrotoluene	1		11.818			ND	
20 2,4-Dinitrotoluene	1	12.005	12.018	-0.013	2967	0.009773	
21 o-Nitrotoluene	1		12.845			ND	U
22 p-Nitrotoluene	1		13.272			ND	
23 m-Nitrotoluene	1		13.865			ND	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
Review Flags
M - Manually Integrated
U - Marked Undetected

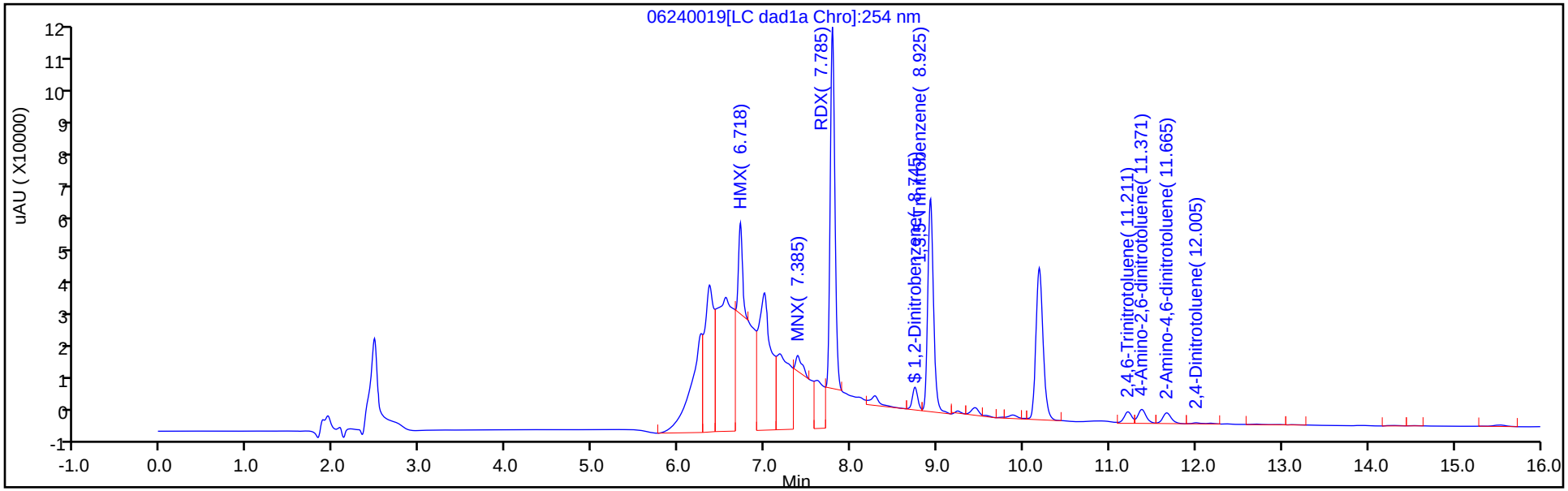
Report Date: 25-Jun-2020 21:10:15 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

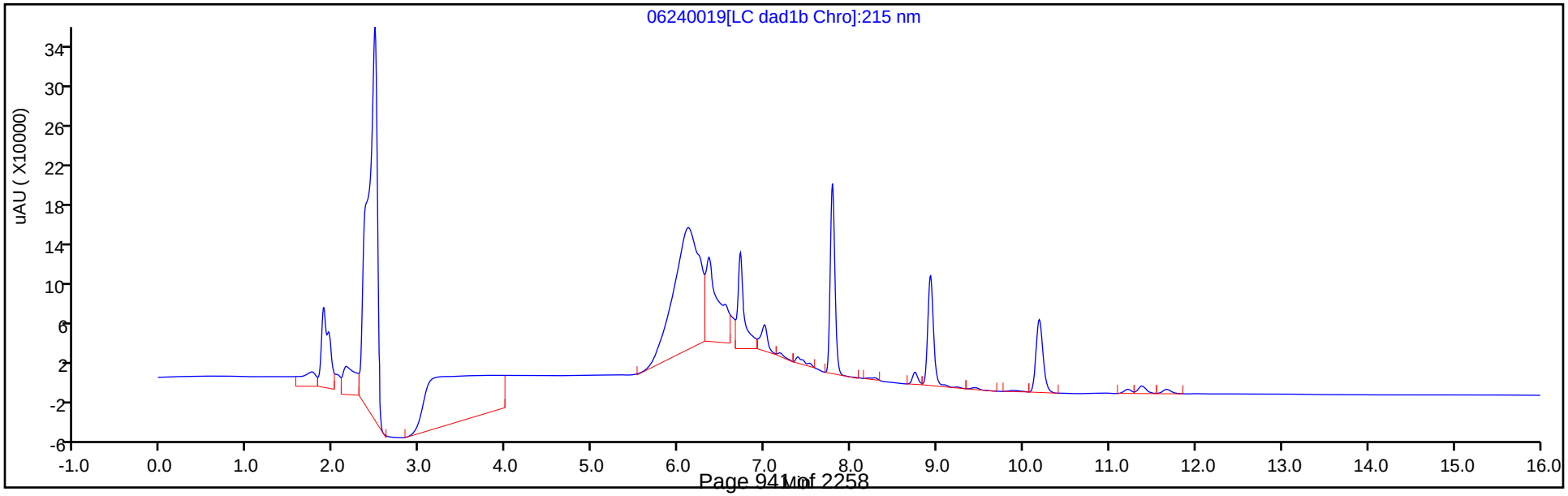
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240019.d

Injection Date:	24-Jun-2020 20:52:07	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7	Worklist Smp#:	19
Client ID:	G0296-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240019.D				
Lims ID:	280-137736-A-7-A				
Client ID:	G0296-20A				
Sample Type:	Client				
Inject. Date:	24-Jun-2020 20:52:07	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-7-A				
Misc. Info.:	280-0092716-019				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	25-Jun-2020 21:10:07	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1063				
First Level Reviewer: zhangji		Date:	24-Jun-2020 21:48:41		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1961	98.07

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

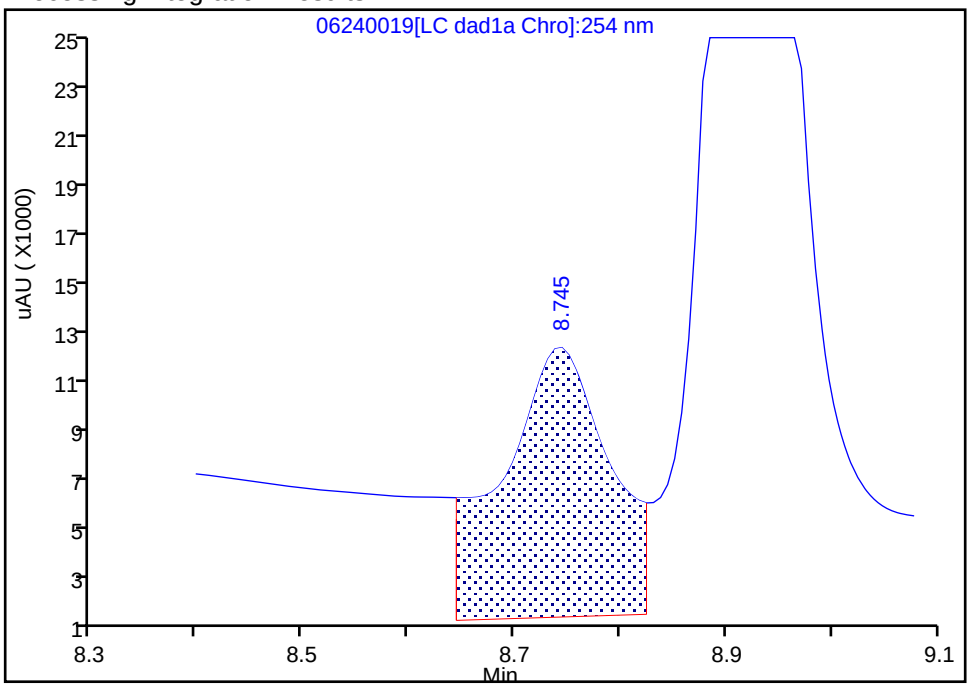
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240019.d				
Injection Date:	24-Jun-2020 20:52:07	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

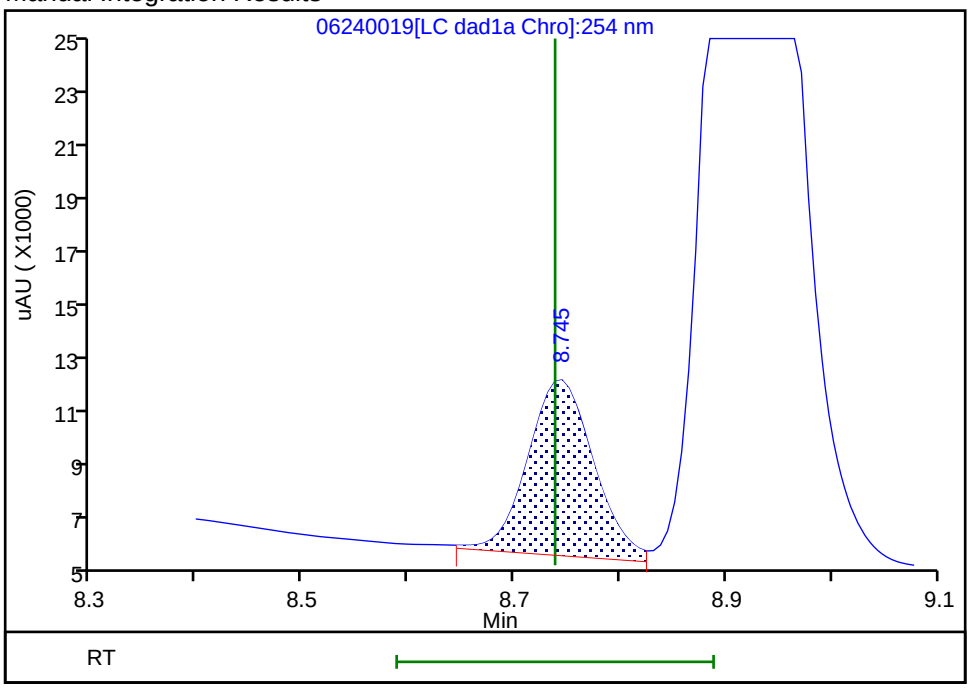
Processing Integration Results

RT: 8.74
Area: 73868
Amount: 0.534453
Amount Units: ug/mL



Manual Integration Results

RT: 8.74
Area: 27109
Amount: 0.196140
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 21:47:57
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

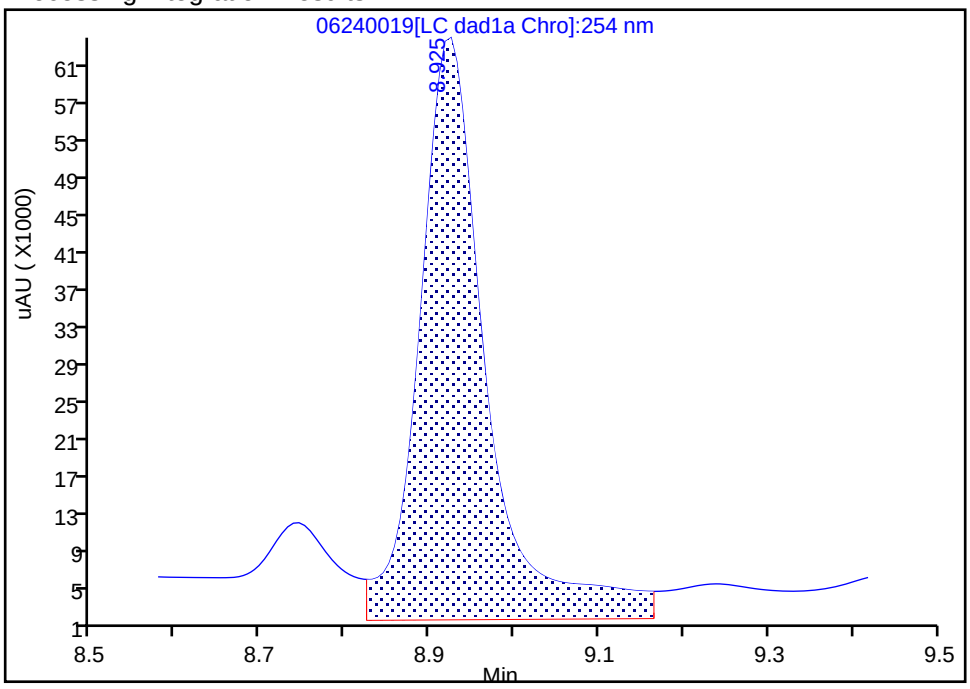
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240019.d				
Injection Date:	24-Jun-2020 20:52:07	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

10 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

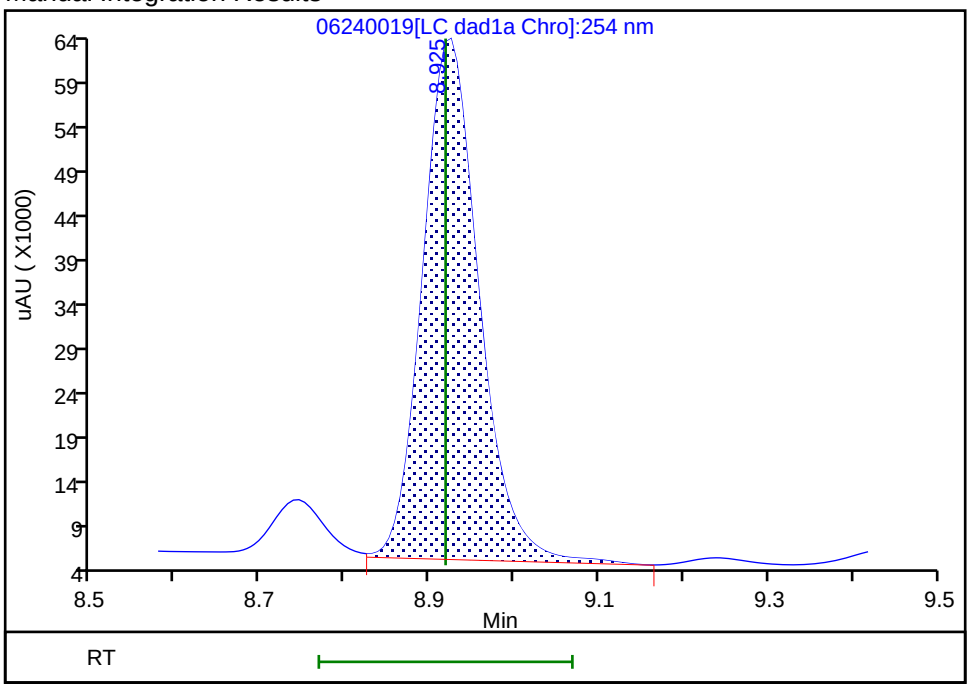
Processing Integration Results

RT: 8.92
Area: 341371
Amount: 1.482231
Amount Units: ug/mL



Manual Integration Results

RT: 8.92
Area: 271593
Amount: 1.179255
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 21:47:57
Audit Action: Assigned New Baseline Audit Reason: Baseline

User Disabled Compound Report

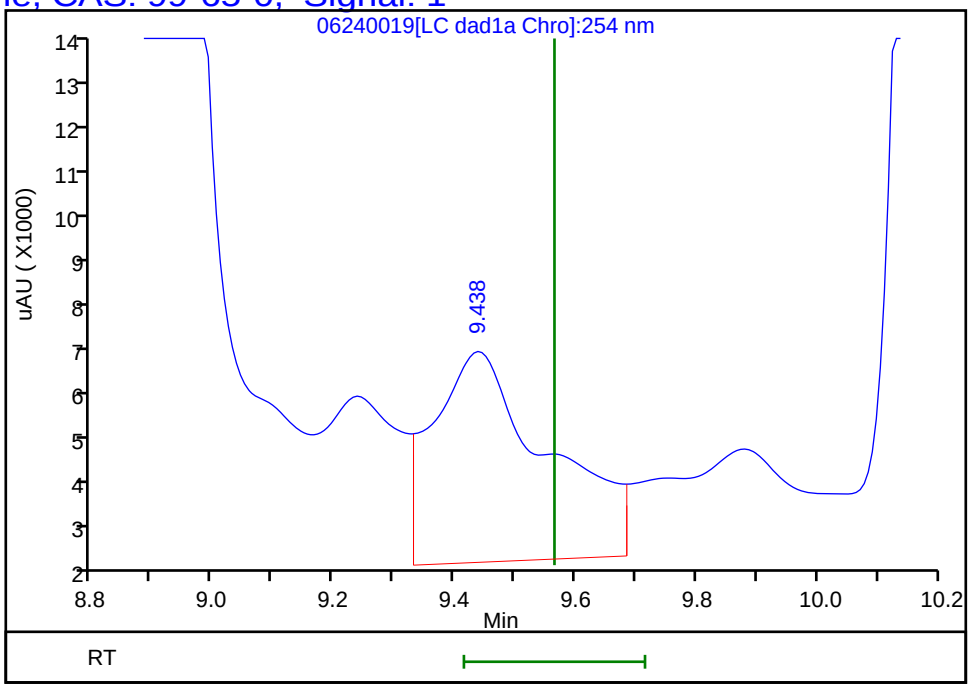
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240019.d

Injection Date:	24-Jun-2020 20:52:07	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

11 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.44
Response: 57748
Amount: 0.188297



Reviewer: zhangji, 24-Jun-2020 21:48:41
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

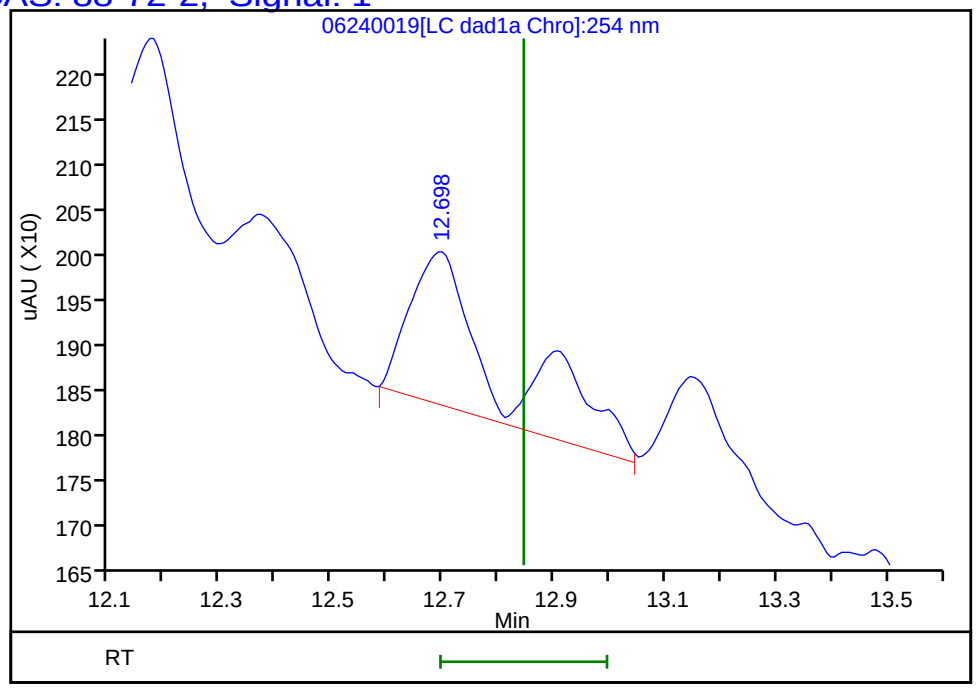
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240019.d				
Injection Date:	24-Jun-2020 20:52:07	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

21 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 12.70
Response: 1943
Amount: 0.014387



Reviewer: zhangji, 24-Jun-2020 21:48:41
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

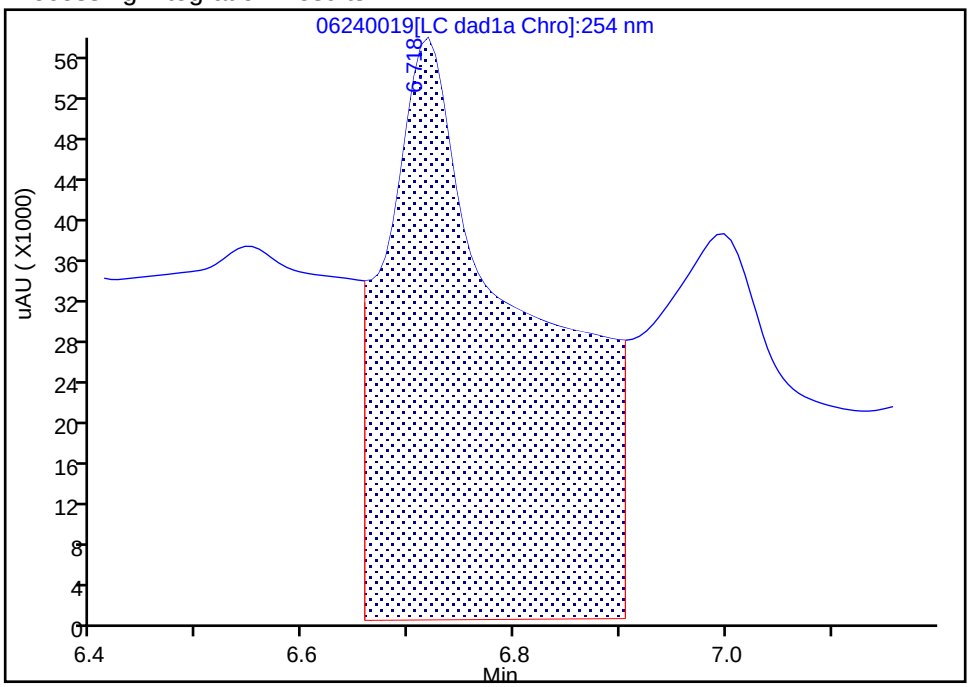
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240019.d				
Injection Date:	24-Jun-2020 20:52:07	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

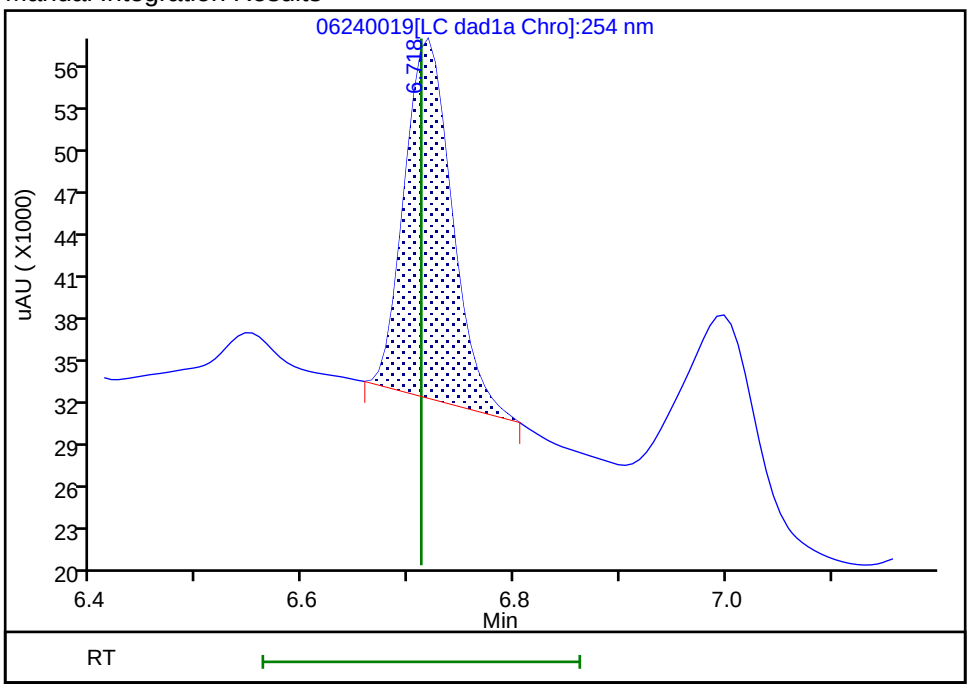
Processing Integration Results

RT: 6.72
Area: 529976
Amount: 6.165224
Amount Units: ug/mL



Manual Integration Results

RT: 6.72
Area: 78259
Amount: 0.910389
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 21:47:30

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

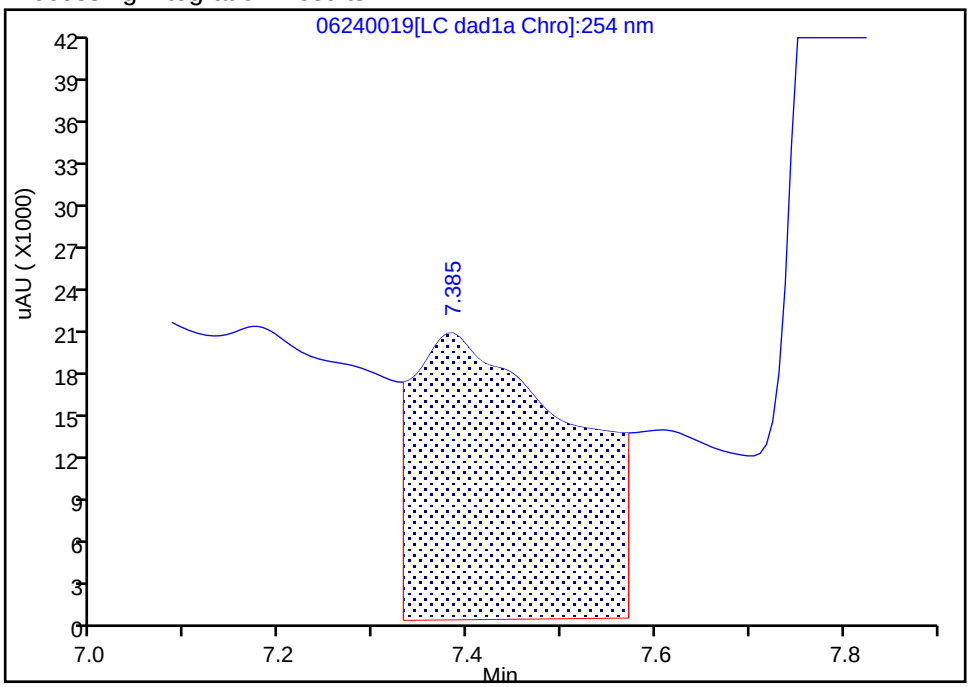
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240019.d				
Injection Date:	24-Jun-2020 20:52:07	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

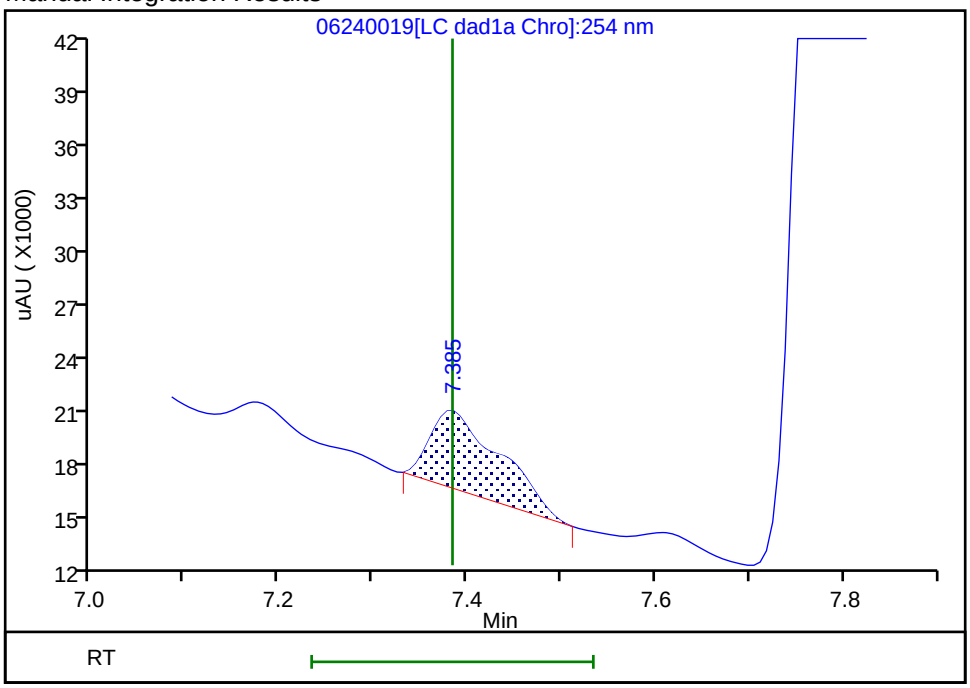
Processing Integration Results

RT: 7.38
Area: 235209
Amount: 1.483555
Amount Units: ug/mL



Manual Integration Results

RT: 7.38
Area: 23042
Amount: 0.145335
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 21:47:36

Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

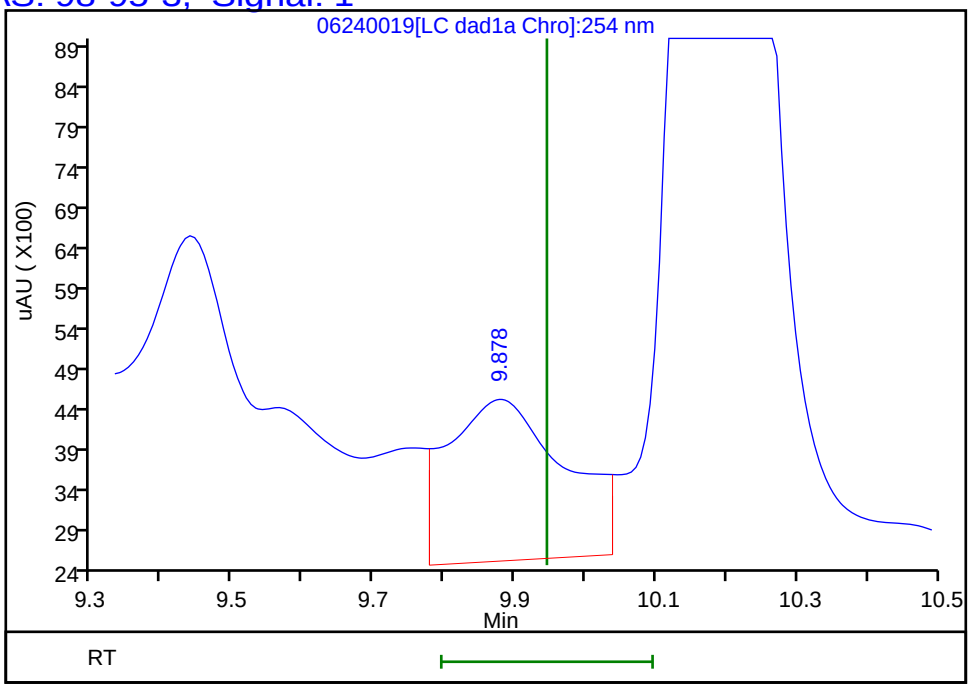
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240019.d

Injection Date:	24-Jun-2020 20:52:07	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

12 Nitrobenzene, CAS: 98-95-3, Signal: 1

RT: 9.88
Response: 23076
Amount: 0.115148



Reviewer: zhangji, 24-Jun-2020 21:48:41
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

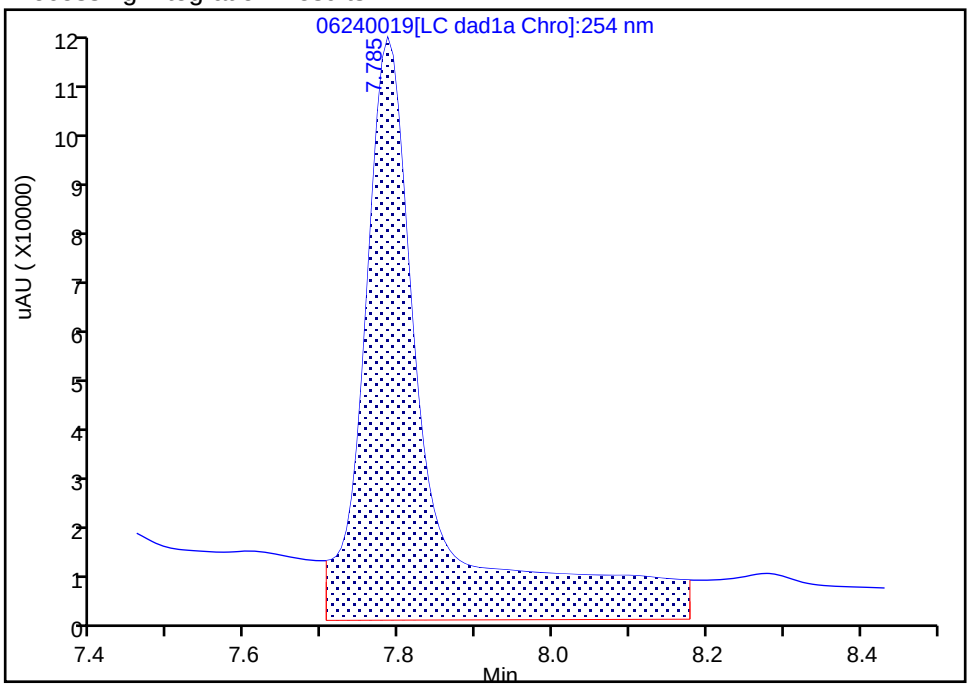
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240019.d				
Injection Date:	24-Jun-2020 20:52:07	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

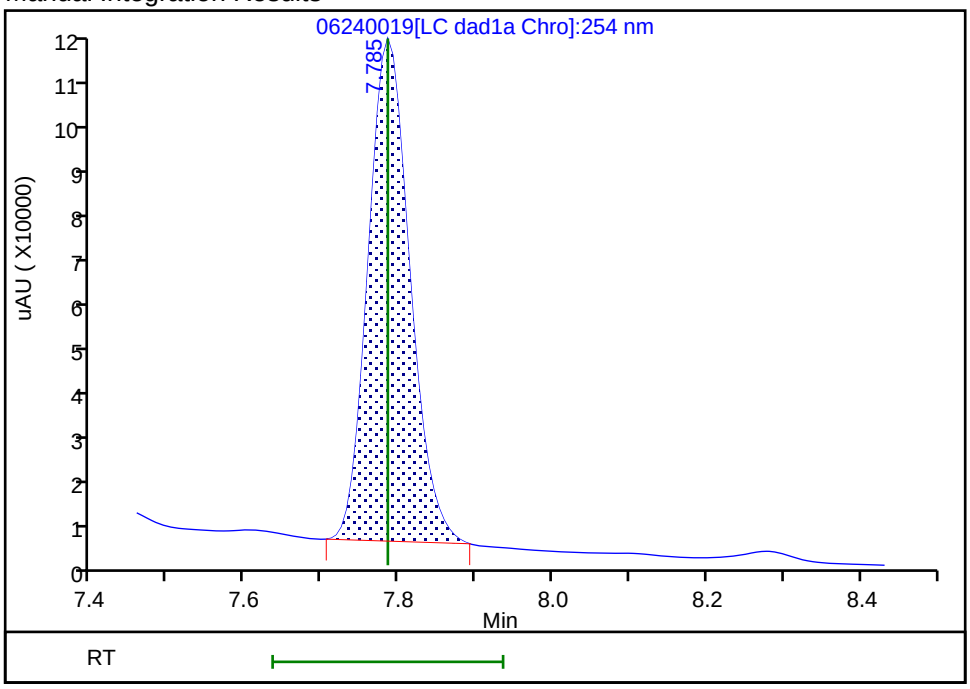
Processing Integration Results

RT: 7.78
Area: 643790
Amount: 5.520736
Amount Units: ug/mL



Manual Integration Results

RT: 7.78
Area: 374582
Amount: 3.212179
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 21:47:41

Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

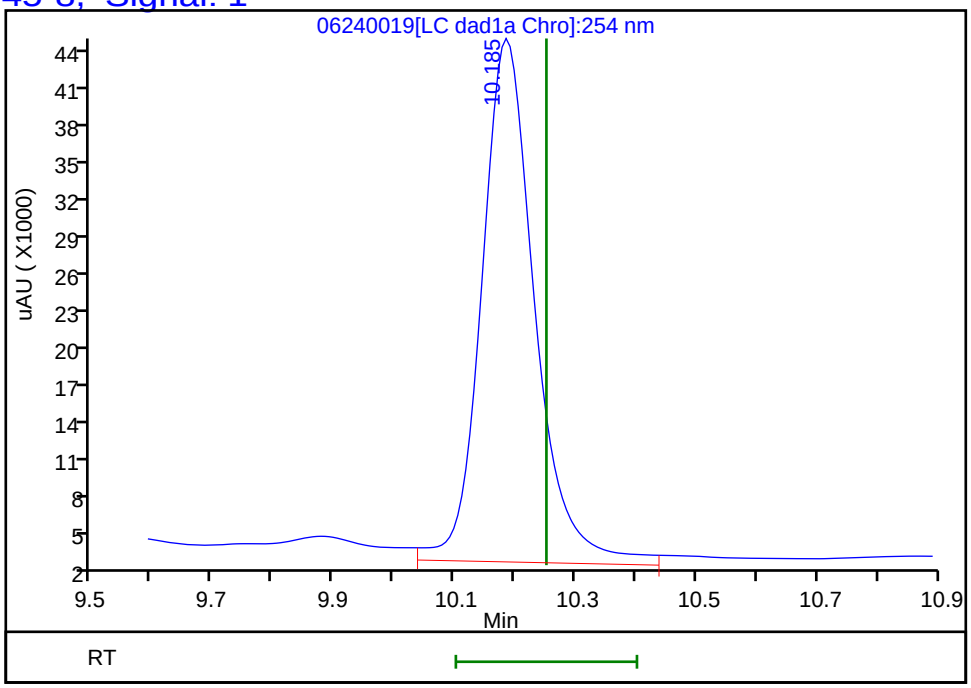
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240019.d

Injection Date:	24-Jun-2020 20:52:07	Instrument ID:	CHHPLC_X3
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7
Client ID:	G0296-20A		
Operator ID:	JZ	ALS Bottle#:	19 Worklist Smp#: 19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000
Method:	8330_X3	Limit Group:	GCSV - 8330
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.18
Response: 260710
Amount: 1.472672



Reviewer: zhangji, 24-Jun-2020 21:48:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0296-20A Lab Sample ID: 280-137736-7

Matrix: Water Lab File ID: 06260021.D

Analysis Method: 8330A Date Collected: 06/16/2020 08:00

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 470.3(mL) Date Analyzed: 06/27/2020 02:44

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

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

Analysis Batch No.: 500326 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	102		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260021.D
Lims ID: 280-137736-A-7-A
Client ID: G0296-20A
Sample Type: Client
Inject. Date: 27-Jun-2020 02:44:27 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-7-A
Misc. Info.: 280-0092796-021
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 15:28:01 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 27-Jun-2020 11:58:59

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
	6 HMX	1	7.132	7.154	-0.022	151643	0.8266	
	7 MNX	1	7.885	7.919	-0.034	46497	0.1539	
	8 RDX	1	9.338	9.367	-0.029	760027	3.11	E
	9 Nitrobenzene	1		12.274			ND	
$	10 1,2-Dinitrobenzene	1	13.238	13.281	-0.043	58180	0.2032	
	12 1,3-Dinitrobenzene	1		15.814			ND	
	14 o-Nitrotoluene	1		16.754			ND	U
	15 p-Nitrotoluene	1		17.034			ND	
	16 4-Amino-2,6-dinitrotoluene	1	17.425	17.474	-0.049	54954	0.1592	
	17 m-Nitrotoluene	1		17.967			ND	U
	18 2-Amino-4,6-dinitrotoluene	1	18.345	18.407	-0.062	51524	0.1108	
	19 1,3,5-Trinitrobenzene	1	19.098	19.147	-0.049	525660	1.11	
	20 2,6-Dinitrotoluene	1		20.074			ND	
	21 2,4-Dinitrotoluene	1	20.565	20.587	-0.022	6670	0.0104	
	22 Tetryl	1		23.887			ND	
	23 2,4,6-Trinitrotoluene	1	24.858	24.907	-0.049	31750	0.0712	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
Review Flags
U - Marked Undetected

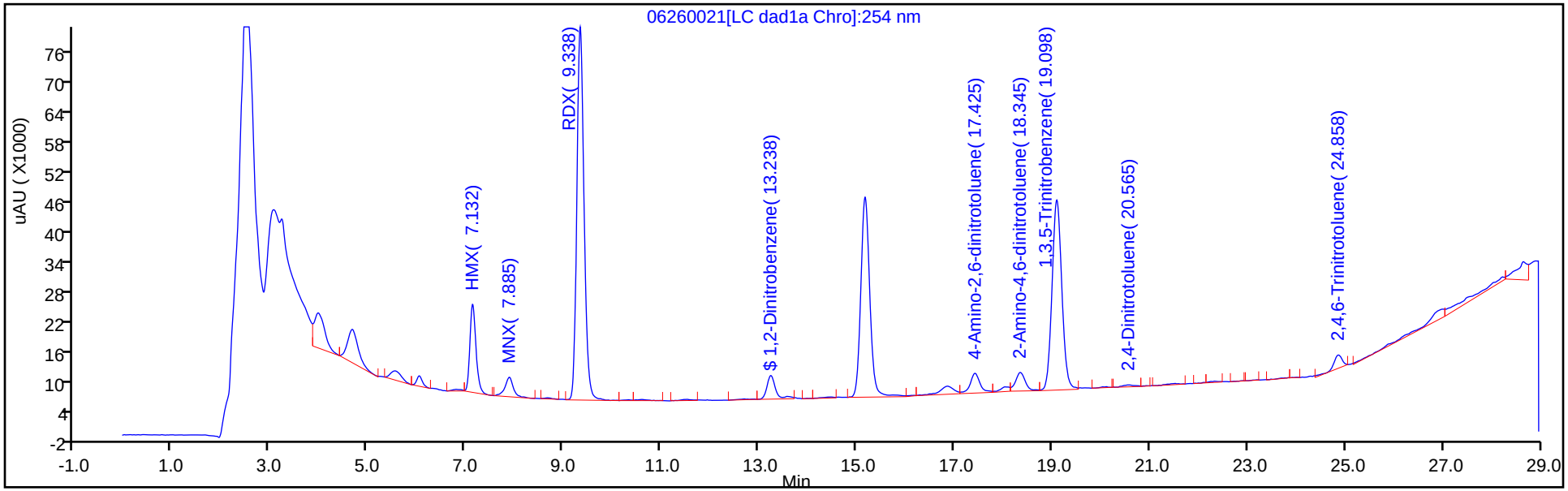
Report Date: 27-Jun-2020 15:28:01 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

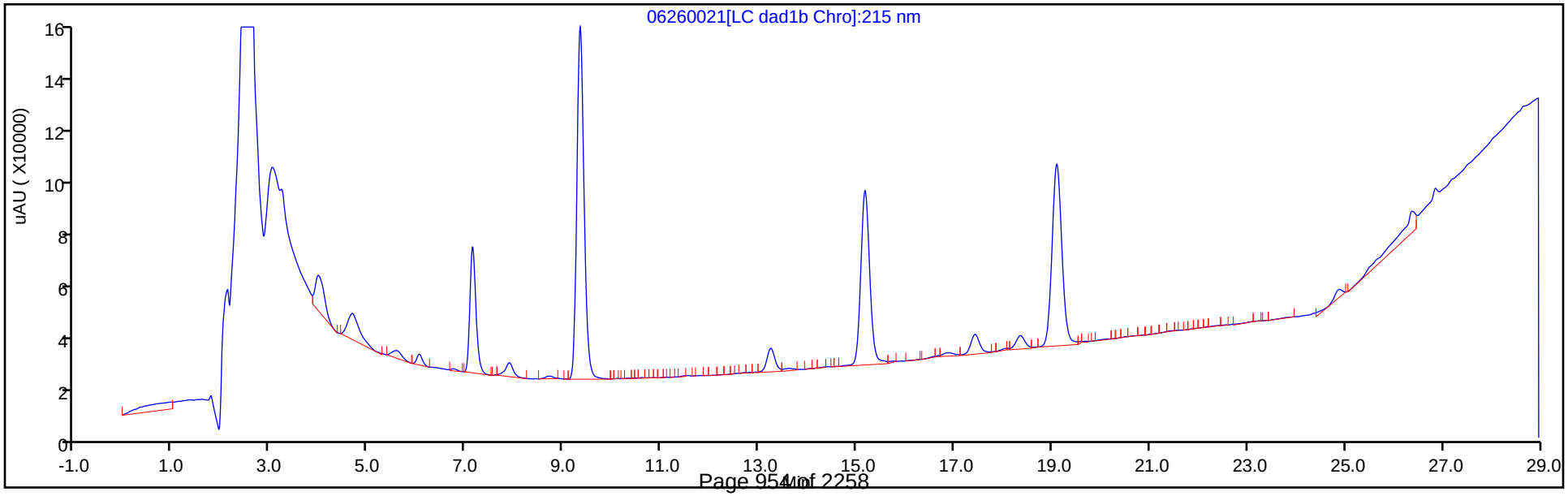
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260021.d

Injection Date:	27-Jun-2020 02:44:27	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137736-A-7-A	Lab Sample ID:		Worklist Smp#:	21
Client ID:	G0296-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260021.D				
Lims ID:	280-137736-A-7-A				
Client ID:	G0296-20A				
Sample Type:	Client				
Inject. Date:	27-Jun-2020 02:44:27	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-7-A				
Misc. Info.:	280-0092796-021				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 15:28:01	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1036				
First Level Reviewer: zhangji		Date:	27-Jun-2020 11:58:59		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2032	101.61

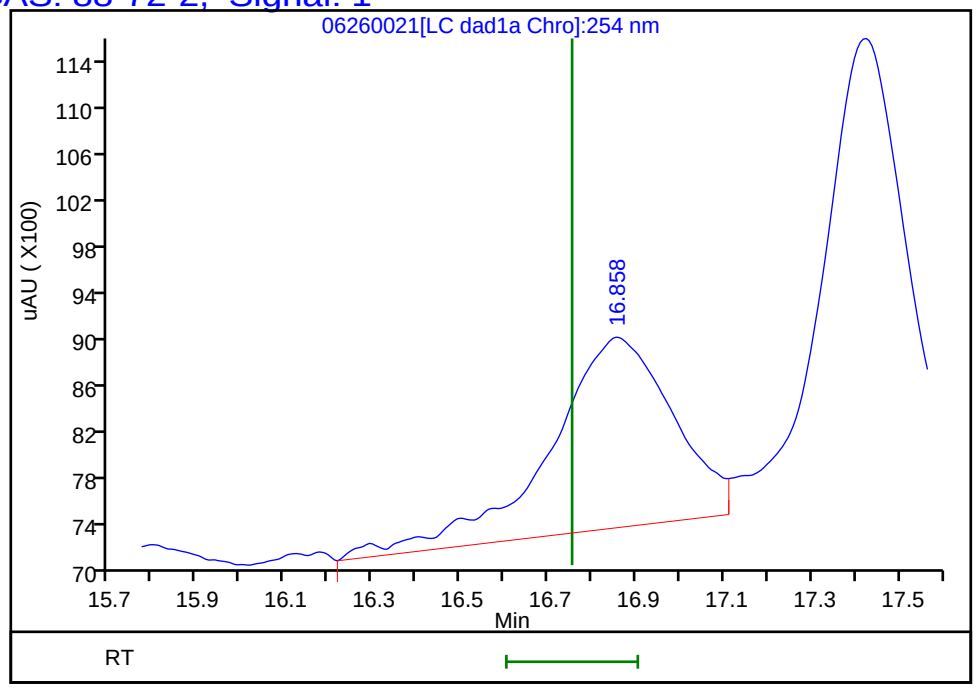
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260021.d				
Injection Date:	27-Jun-2020 02:44:27	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-7-A	Lab Sample ID:			
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.86
Response: 31708
Amount: 0.116162



Reviewer: zhangji, 27-Jun-2020 11:58:59
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

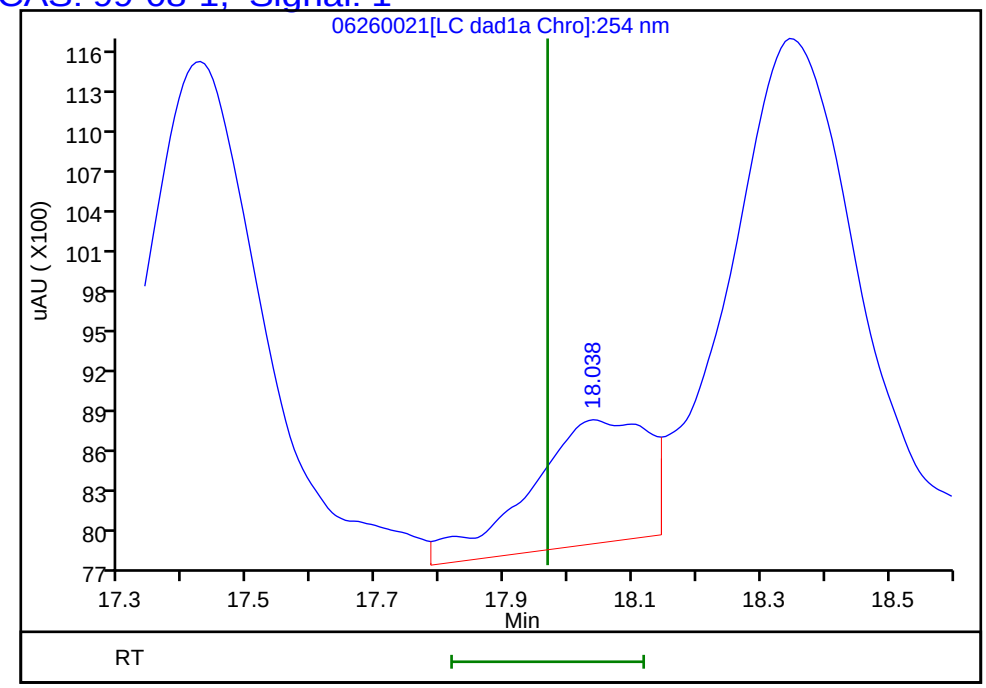
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260021.d				
Injection Date:	27-Jun-2020 02:44:27	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-7-A	Lab Sample ID:			
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 18.04
Response: 12013
Amount: 0.040268



Reviewer: zhangji, 27-Jun-2020 11:58:59
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0296-20A DL Lab Sample ID: 280-137736-7 DL

Matrix: Water Lab File ID: 06260012.D

Analysis Method: 8330A Date Collected: 06/16/2020 08:00

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 470.3(mL) Date Analyzed: 06/26/2020 19:07

Con. Extract Vol.: 5(mL) Dilution Factor: 10

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 500316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
121-82-4	RDX	36	D M	2.2	2.1	0.55

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	114	D	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\06260012.D				
Lims ID:	280-137736-A-7-A				
Client ID:	G0296-20A				
Sample Type:	Client				
Inject. Date:	26-Jun-2020 19:07:27	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137736-A-7-A				
Misc. Info.:	280-0092794-012				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 13:26:12	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1036				
First Level Reviewer: zhangji		Date:	26-Jun-2020 19:47:58		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1	6.712	6.710	0.002	7715	0.0897	M
6 MNX	1	7.385	7.384	0.001	886	0.005588	M
7 RDX	1	7.792	7.790	0.002	39626	0.3398	M
$ 9 1,2-Dinitrobenzene	1	8.758	8.756	0.002	3138	0.0227	
10 1,3,5-Trinitrobenzene	1	8.932	8.930	0.002	28104	0.1220	
11 1,3-Dinitrobenzene	1		9.583			ND	U
12 Nitrobenzene	1		9.963			ND	
14 Tetryl	1		10.283			ND	U
16 2,4,6-Trinitrotoluene	1		11.250			ND	U
17 4-Amino-2,6-dinitrotoluene	1		11.423			ND	U
18 2-Amino-4,6-dinitrotoluene	1	11.711	11.716	-0.005	4393	0.0217	
19 2,6-Dinitrotoluene	1		11.850			ND	
20 2,4-Dinitrotoluene	1		12.050			ND	
21 o-Nitrotoluene	1		12.870			ND	U
22 p-Nitrotoluene	1		13.310			ND	U
23 m-Nitrotoluene	1	13.885	13.896	-0.011	2960	0.0207	M

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

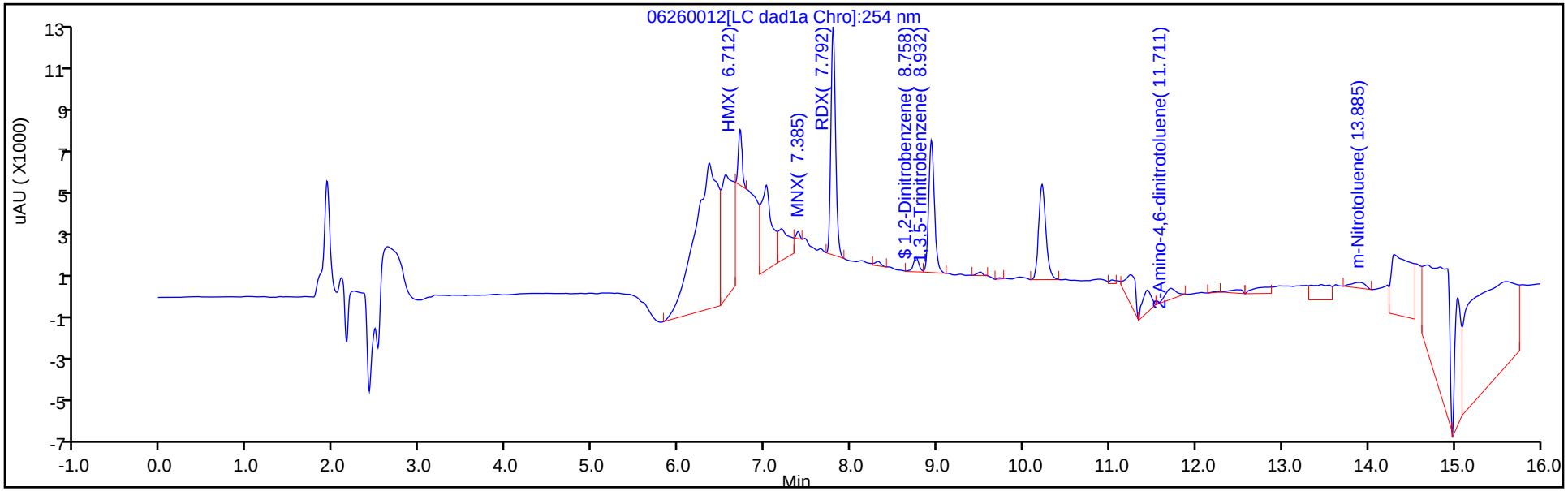
Report Date: 27-Jun-2020 13:26:13 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

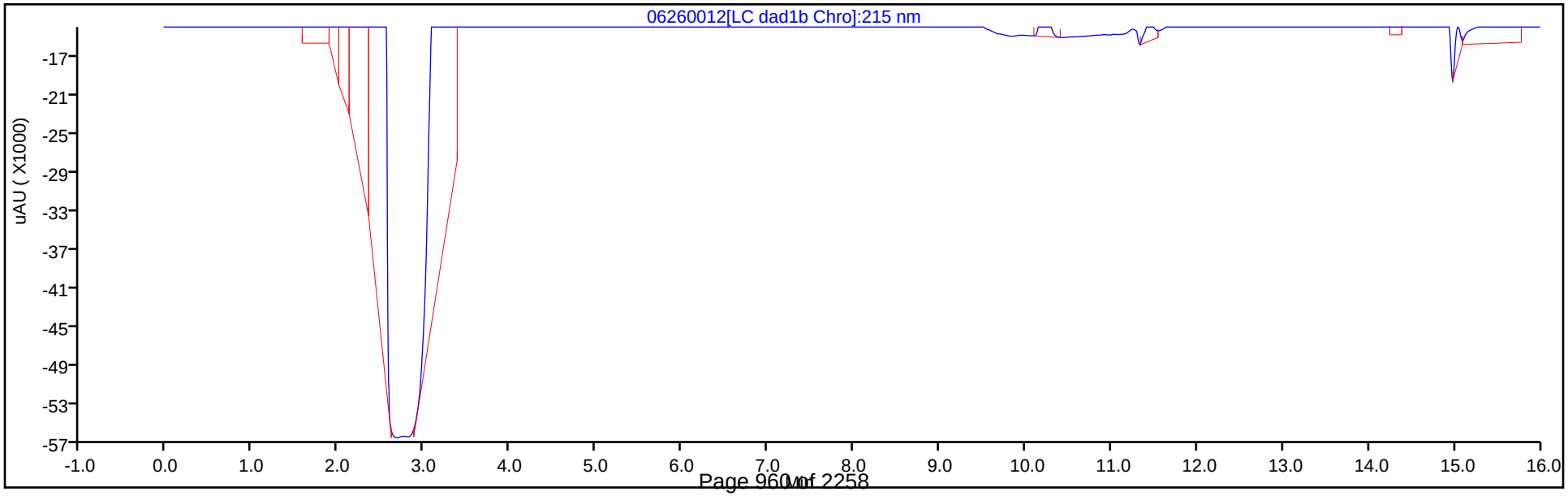
Data File: \\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260012.d

Injection Date:	26-Jun-2020 19:07:27	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7	Worklist Smp#:	12
Client ID:	G0296-20A				
Injection Vol:	100.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	12
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\06260012.D				
Lims ID:	280-137736-A-7-A				
Client ID:	G0296-20A				
Sample Type:	Client				
Inject. Date:	26-Jun-2020 19:07:27	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137736-A-7-A				
Misc. Info.:	280-0092794-012				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 13:26:12	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1036				

First Level Reviewer: zhangji Date: 26-Jun-2020 19:47:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.0227	11.35

User Disabled Compound Report

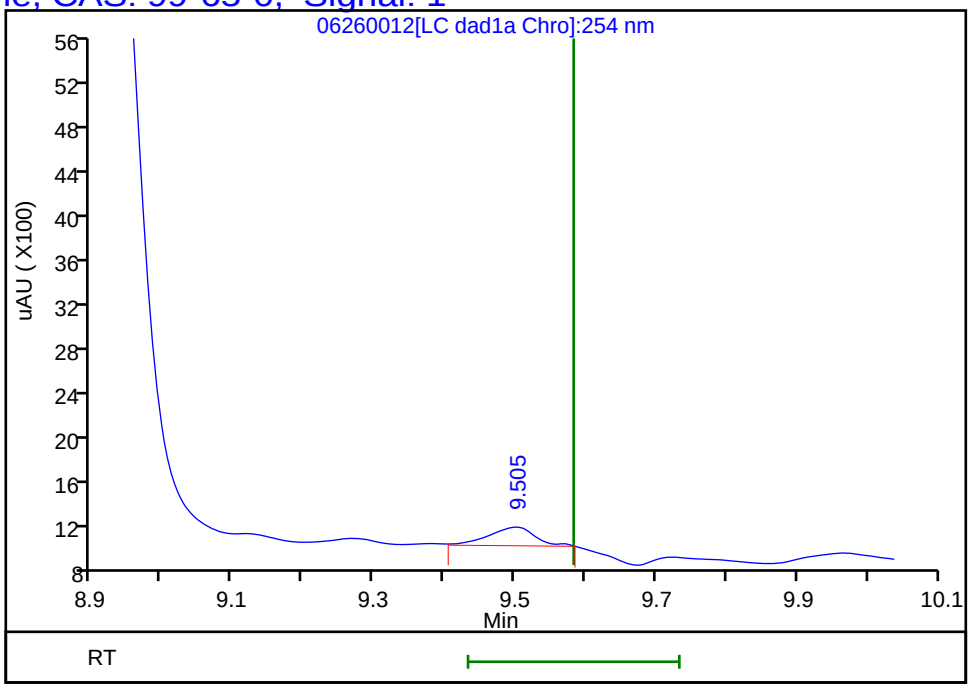
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260012.d

Injection Date:	26-Jun-2020 19:07:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

11 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.50
Response: 754
Amount: 0.002459



Reviewer: zhangji, 26-Jun-2020 19:47:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

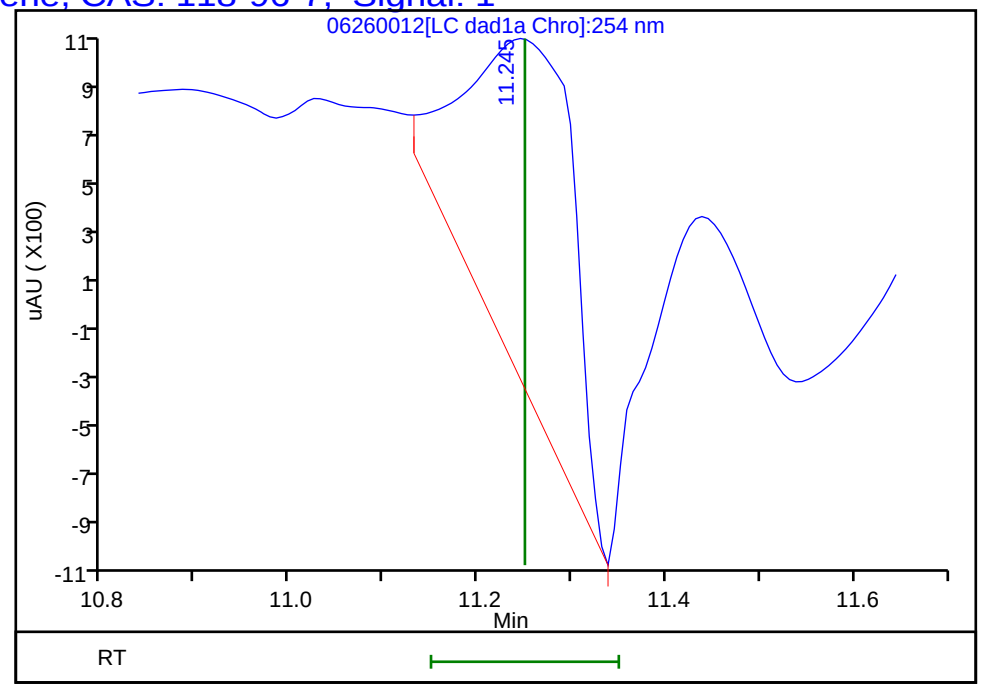
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260012.d

Injection Date:	26-Jun-2020 19:07:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

16 2,4,6-Trinitrotoluene, CAS: 118-96-7, Signal: 1

RT: 11.24
Response: 10881
Amount: 0.053330



Reviewer: zhangji, 26-Jun-2020 19:47:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

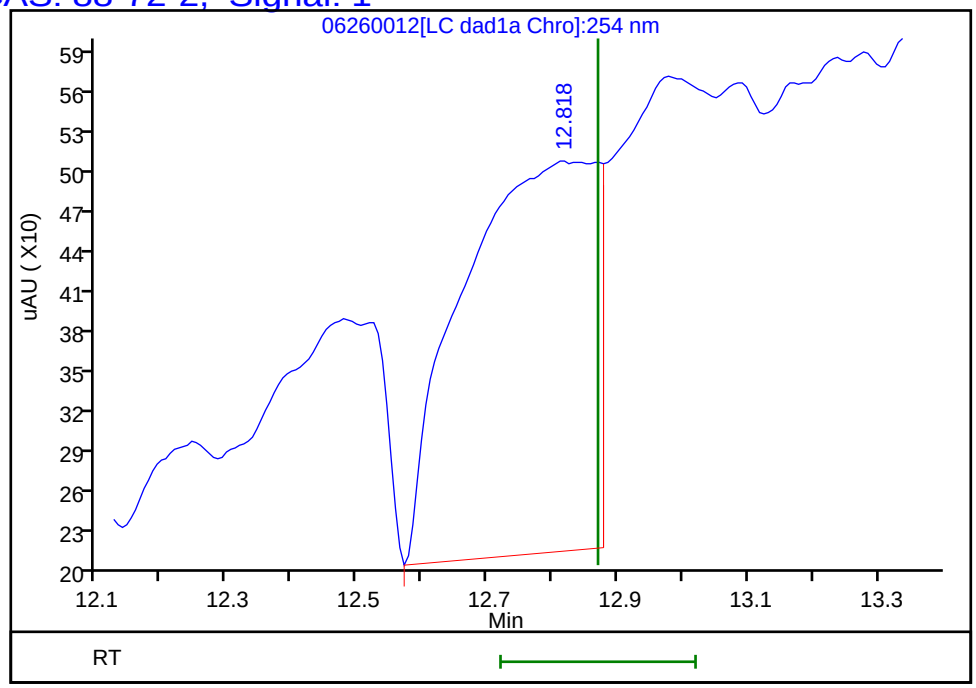
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260012.d				
Injection Date:	26-Jun-2020 19:07:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

21 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 12.82
Response: 4153
Amount: 0.030751



Reviewer: zhangji, 26-Jun-2020 19:47:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

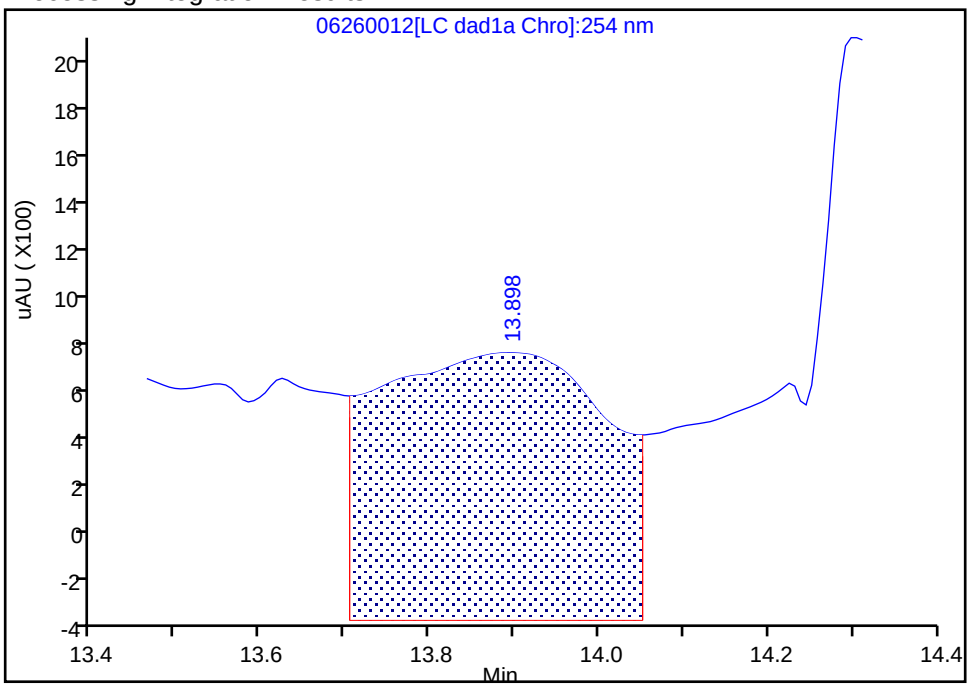
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260012.d				
Injection Date:	26-Jun-2020 19:07:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

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

Signal: 1

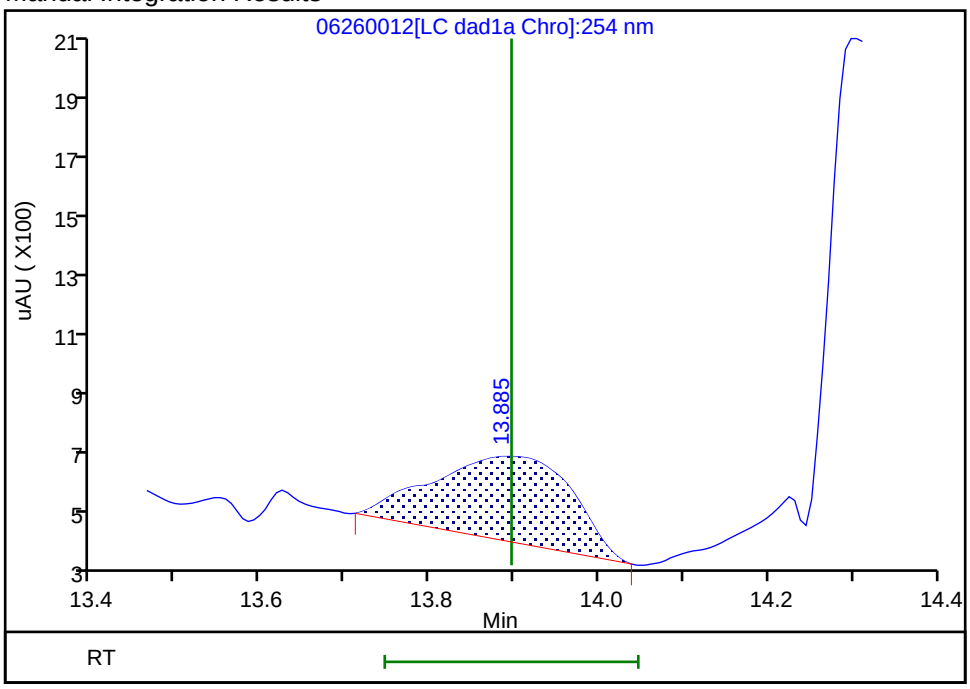
Processing Integration Results

RT: 13.90
Area: 20284
Amount: 0.141818
Amount Units: ug/mL



Manual Integration Results

RT: 13.88
Area: 2960
Amount: 0.020695
Amount Units: ug/mL



Reviewer: zhangji, 26-Jun-2020 19:47:52

Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

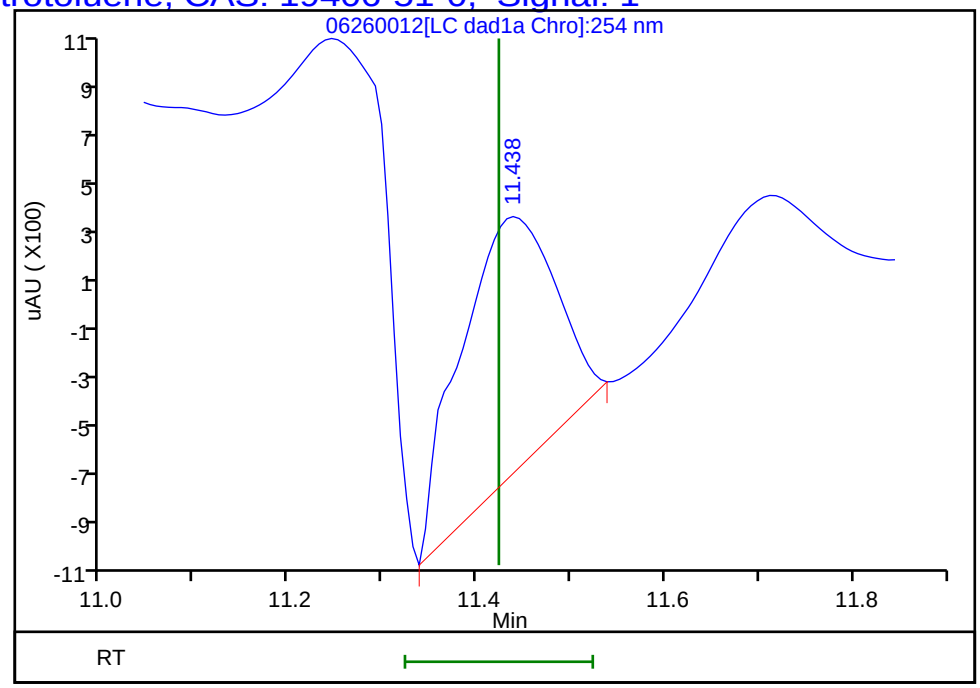
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260012.d

Injection Date:	26-Jun-2020 19:07:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

17 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0, Signal: 1

RT: 11.44
Response: 7326
Amount: 0.047595



Reviewer: zhangji, 26-Jun-2020 19:47:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

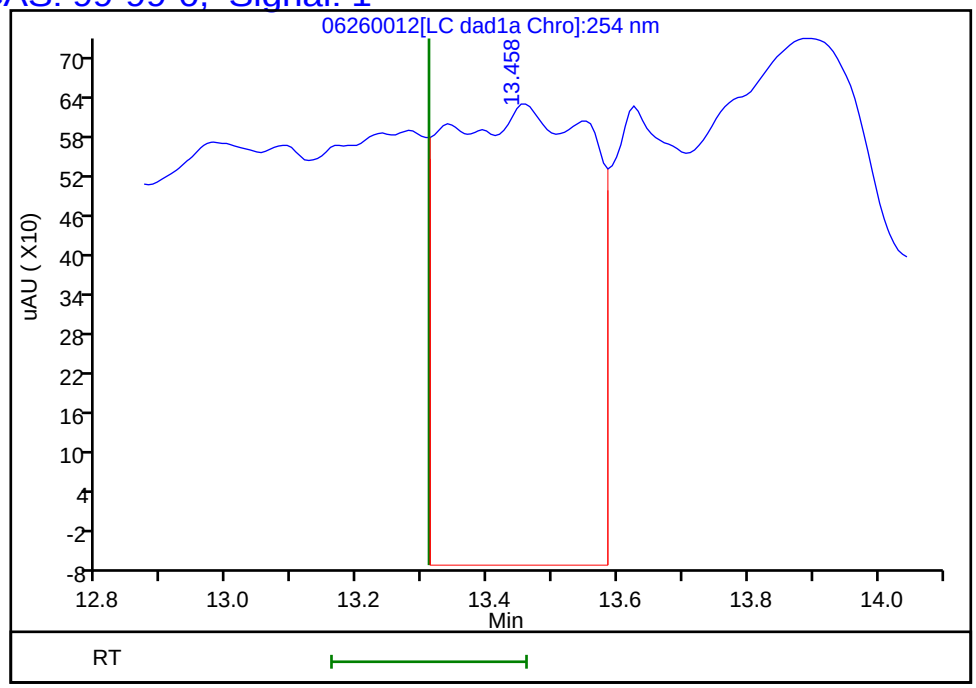
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260012.d
Injection Date: 26-Jun-2020 19:07:27 Instrument ID: CHHPLC_X3
Lims ID: 280-137736-A-7-A Lab Sample ID: 280-137736-7
Client ID: G0296-20A
Operator ID: JZ ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 10.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

22 p-Nitrotoluene, CAS: 99-99-0, Signal: 1

RT: 13.46
Response: 10928
Amount: 0.096704



Reviewer: zhangji, 26-Jun-2020 19:47:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

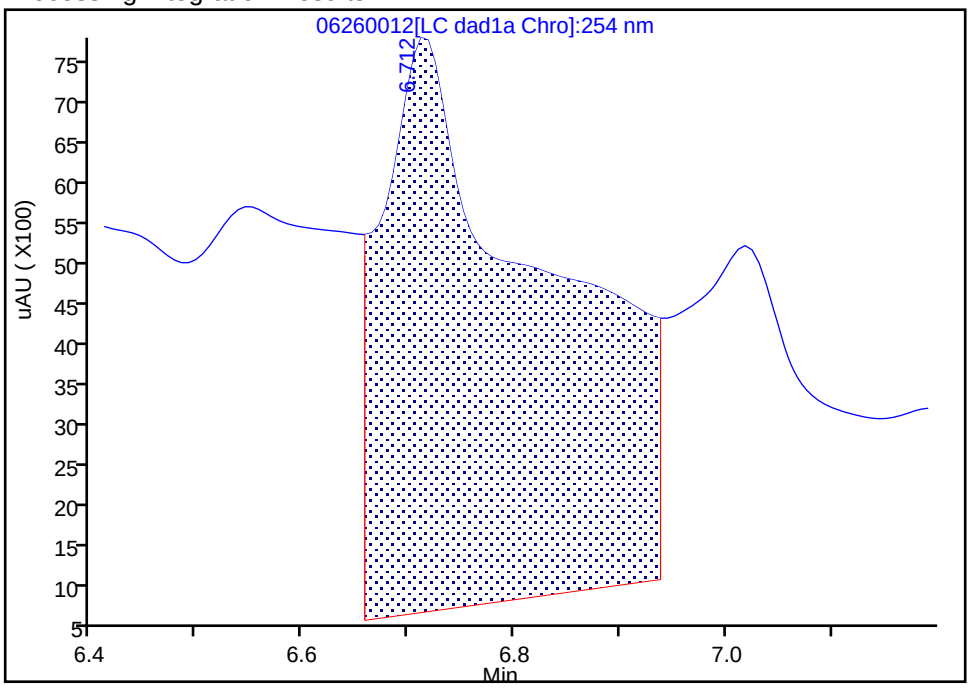
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260012.d				
Injection Date:	26-Jun-2020 19:07:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

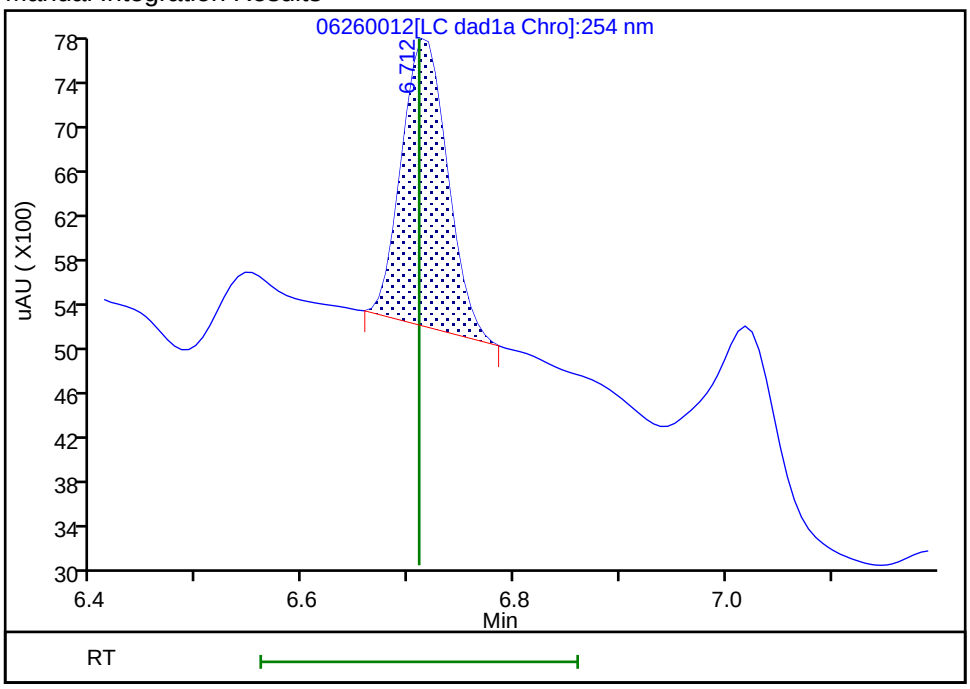
Processing Integration Results

RT: 6.71
Area: 76638
Amount: 0.891532
Amount Units: ug/mL



Manual Integration Results

RT: 6.71
Area: 7715
Amount: 0.089749
Amount Units: ug/mL



Reviewer: zhangji, 26-Jun-2020 19:47:16

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

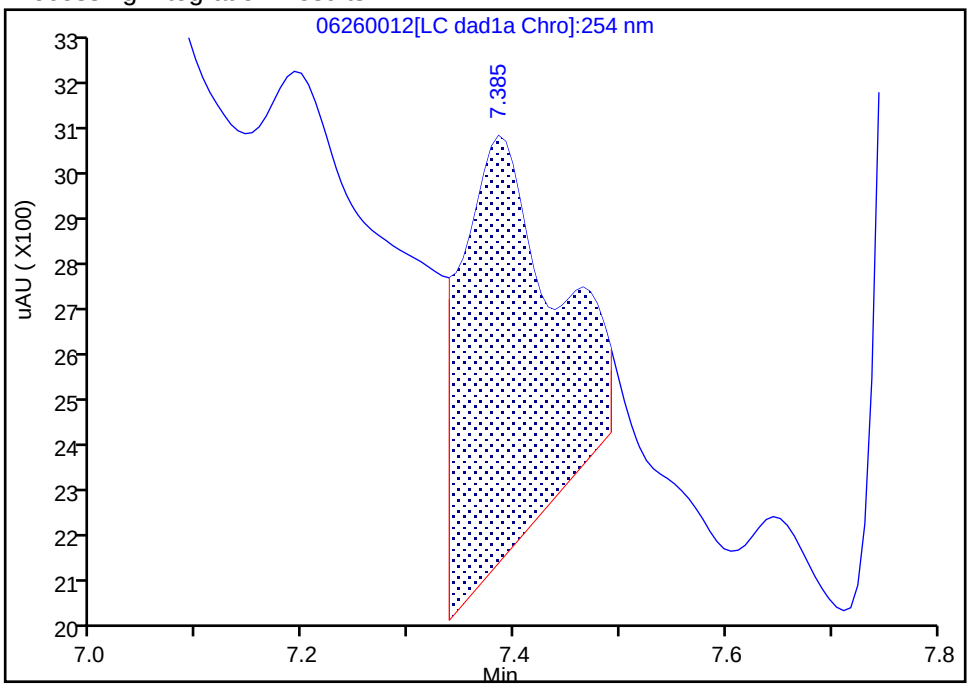
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260012.d				
Injection Date:	26-Jun-2020 19:07:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

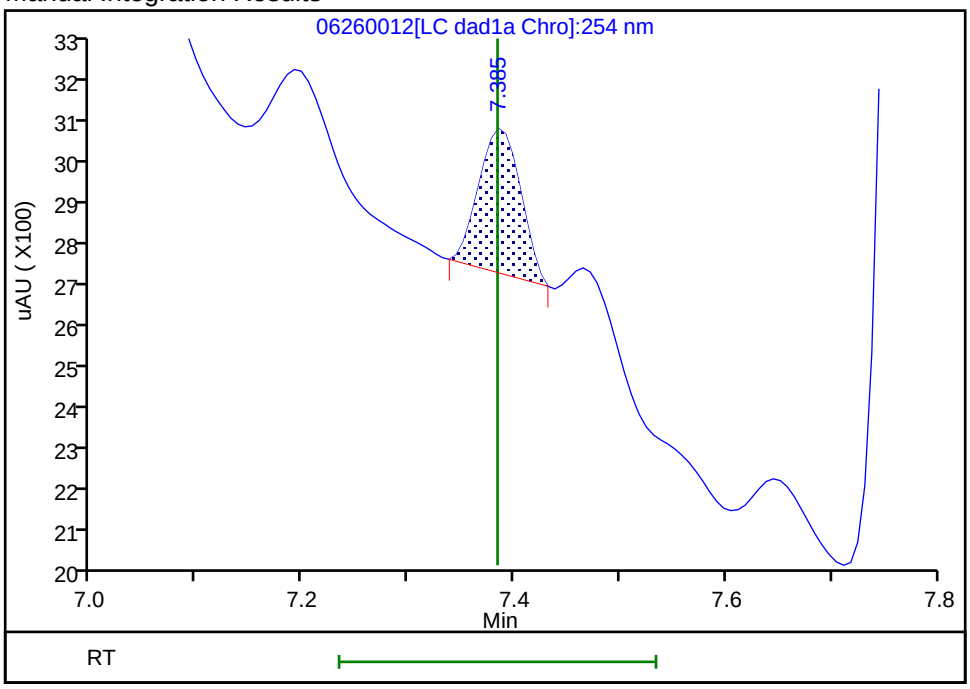
Processing Integration Results

RT: 7.38
Area: 5214
Amount: 0.032887
Amount Units: ug/mL



Manual Integration Results

RT: 7.38
Area: 886
Amount: 0.005588
Amount Units: ug/mL



Reviewer: zhangji, 26-Jun-2020 19:47:22

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

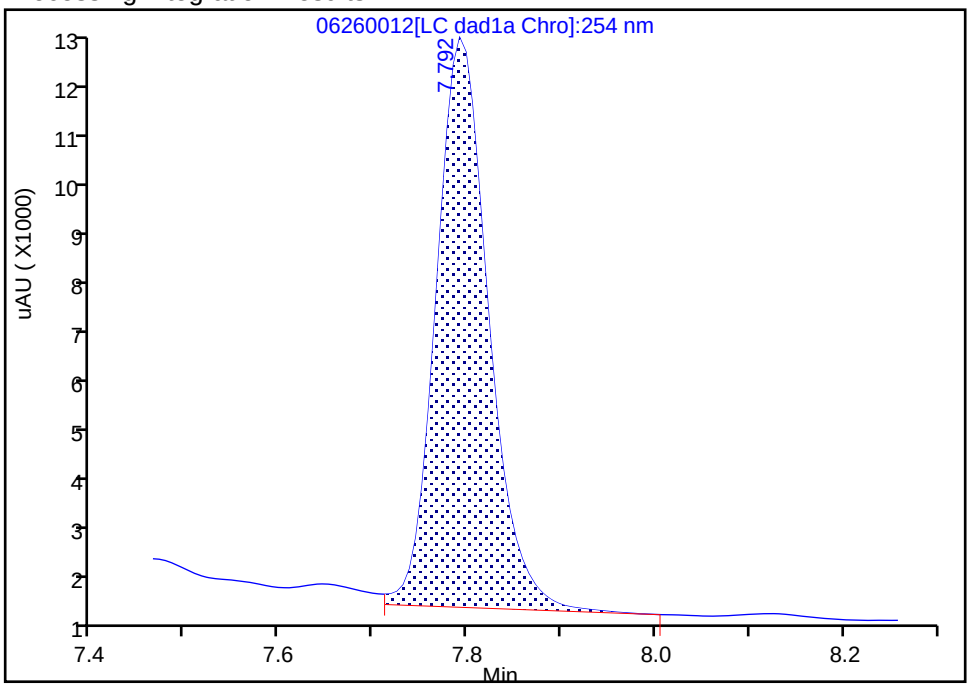
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260012.d				
Injection Date:	26-Jun-2020 19:07:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

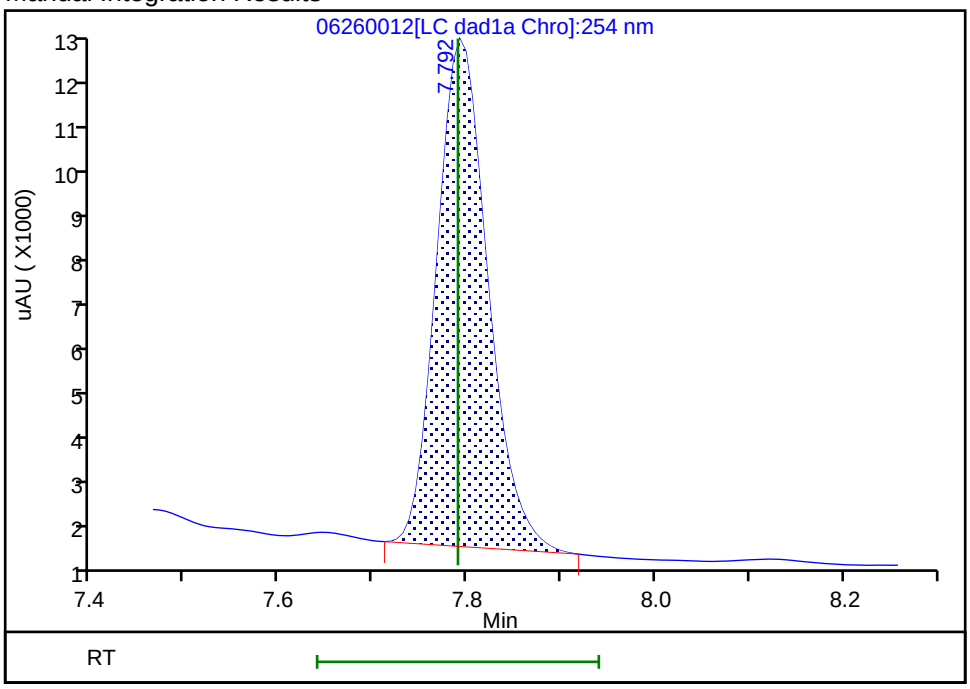
Processing Integration Results

RT: 7.79
Area: 41348
Amount: 0.354574
Amount Units: ug/mL



Manual Integration Results

RT: 7.79
Area: 39626
Amount: 0.339808
Amount Units: ug/mL



Reviewer: zhangji, 26-Jun-2020 19:47:26

Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

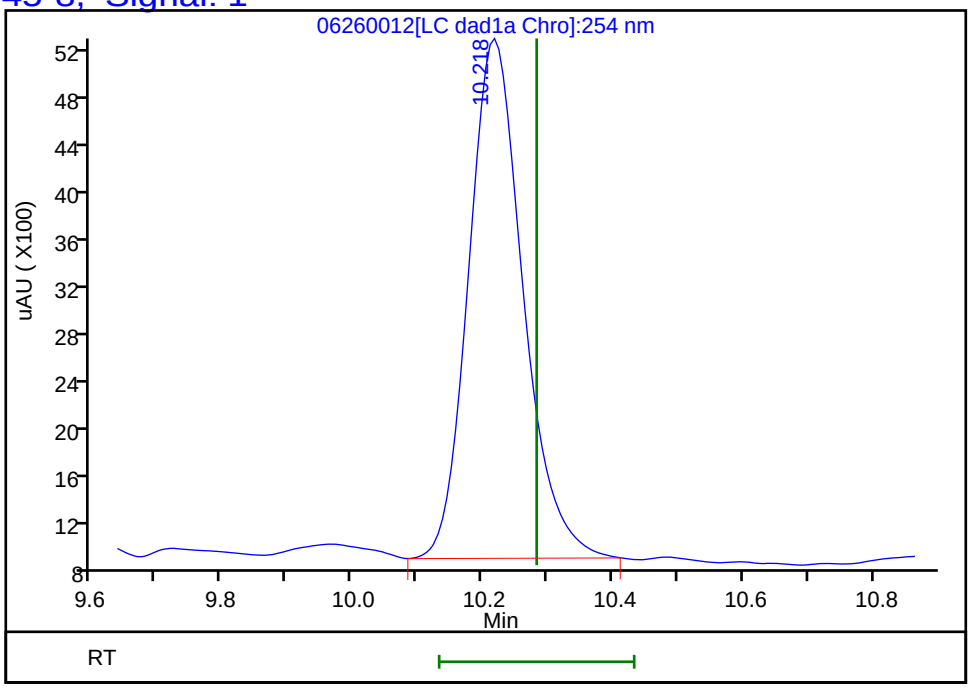
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260012.d

Injection Date:	26-Jun-2020 19:07:27	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.22
Response: 25531
Amount: 0.144217



Reviewer: zhangji, 26-Jun-2020 19:47:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0296-20A DL Lab Sample ID: 280-137736-7 DL

Matrix: Water Lab File ID: 06260022.D

Analysis Method: 8330A Date Collected: 06/16/2020 08:00

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 470.3(mL) Date Analyzed: 06/27/2020 03:19

Con. Extract Vol.: 5(mL) Dilution Factor: 10

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

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

Analysis Batch No.: 500326 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	82	*Q M D*	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260022.D
Lims ID: 280-137736-A-7-A
Client ID: G0296-20A
Sample Type: Client
Inject. Date: 27-Jun-2020 03:19:24 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 100.0 ul Dil. Factor: 10.0000
Sample Info: 280-137736-A-7-A
Misc. Info.: 280-0092796-022
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 15:28:01 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 27-Jun-2020 11:59:19

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1	7.135	7.154	-0.019	15920	0.0599	
7 MNX	1		7.919			ND	
8 RDX	1	9.349	9.367	-0.018	79202	0.3241	
9 Nitrobenzene	1		12.274			ND	
$ 10 1,2-Dinitrobenzene	1	13.262	13.281	-0.019	6384	0.0164	M
12 1,3-Dinitrobenzene	1		15.814			ND	U
14 o-Nitrotoluene	1		16.754			ND	U
15 p-Nitrotoluene	1		17.034			ND	
16 4-Amino-2,6-dinitrotoluene	1	17.442	17.474	-0.032	6426	0.0186	
17 m-Nitrotoluene	1		17.967			ND	U
18 2-Amino-4,6-dinitrotoluene	1		18.407			ND	U
19 1,3,5-Trinitrobenzene	1	19.115	19.147	-0.032	59453	0.1258	
20 2,6-Dinitrotoluene	1		20.074			ND	
21 2,4-Dinitrotoluene	1		20.587			ND	
22 Tetryl	1		23.887			ND	
23 2,4,6-Trinitrotoluene	1		24.907			ND	

QC Flag Legend

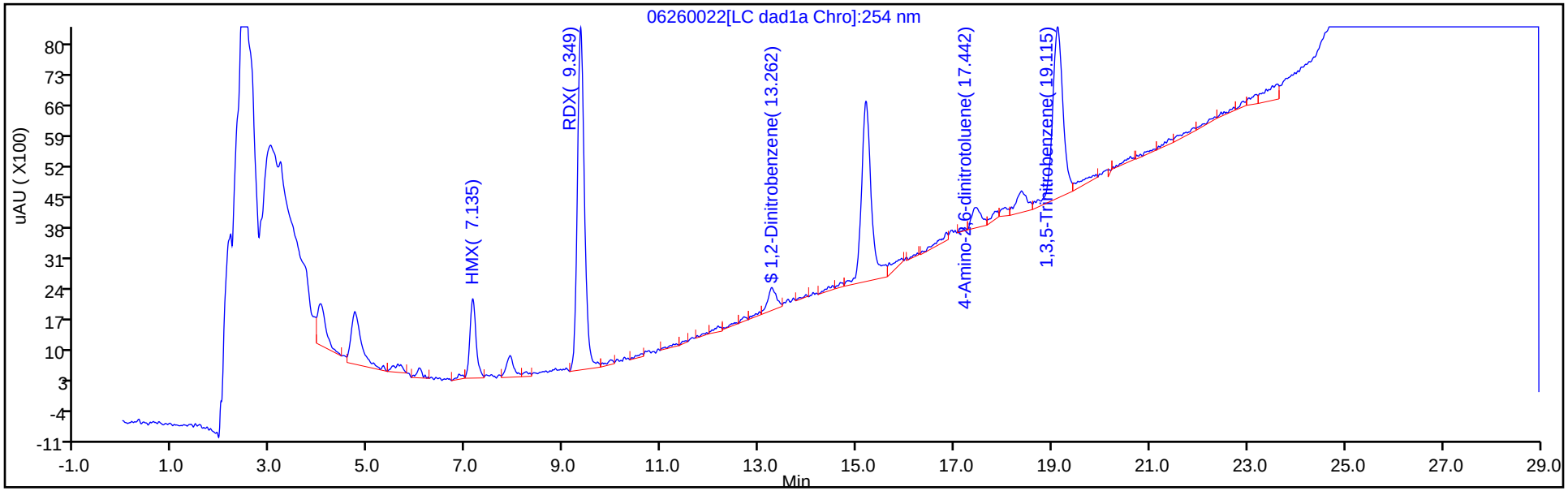
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 27-Jun-2020 15:28:02 Chrom Revision: 2.3 21-Jun-2020 18:30:46

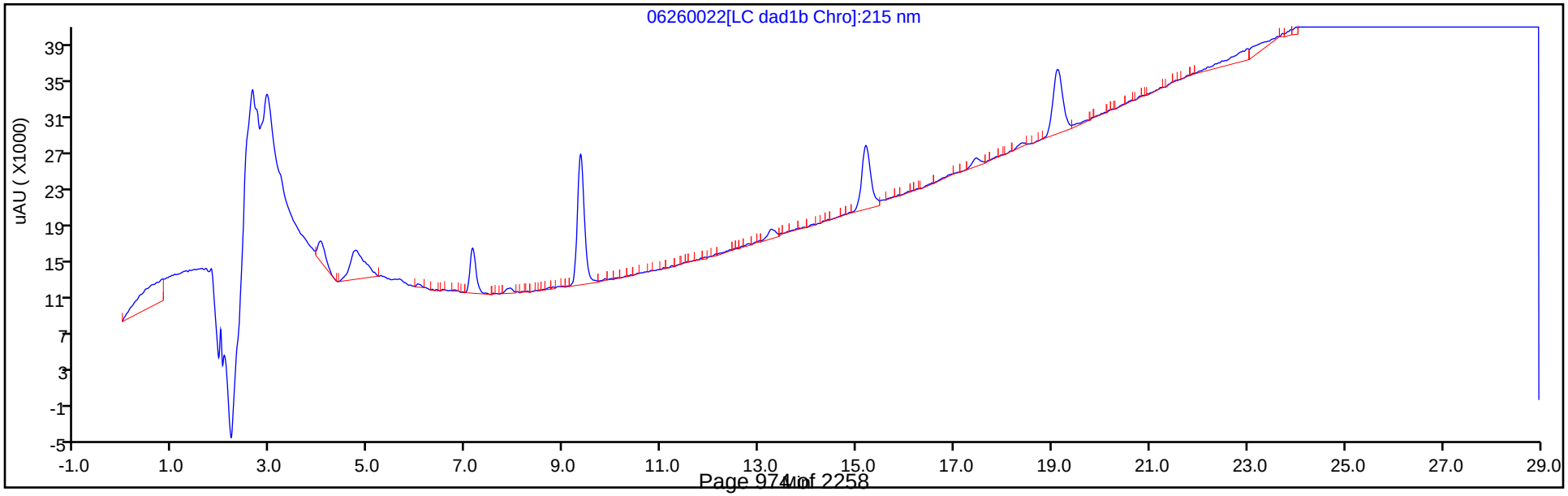
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260022.d				
Injection Date:	27-Jun-2020 03:19:24	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7	Worklist Smp#:	22
Client ID:	G0296-20A				
Injection Vol:	100.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	22
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260022.D				
Lims ID:	280-137736-A-7-A				
Client ID:	G0296-20A				
Sample Type:	Client				
Inject. Date:	27-Jun-2020 03:19:24	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Sample Info:	280-137736-A-7-A				
Misc. Info.:	280-0092796-022				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 15:28:01	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1036				
First Level Reviewer: zhangji		Date:	27-Jun-2020 11:59:19		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.0164	8.20

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

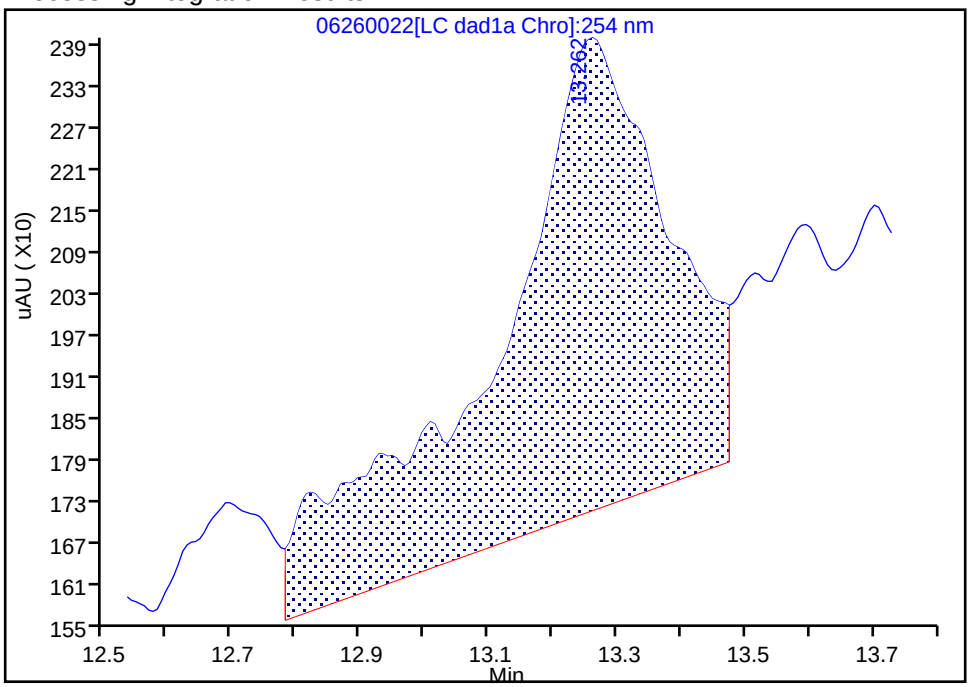
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260022.d				
Injection Date:	27-Jun-2020 03:19:24	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

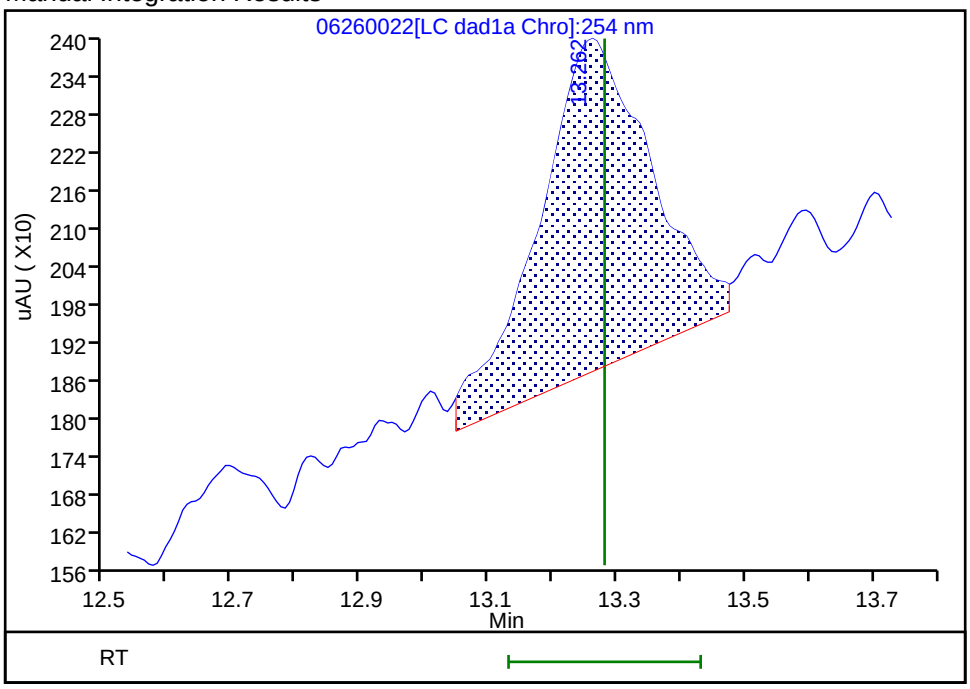
Processing Integration Results

RT: 13.26
Area: 13193
Amount: 0.040955
Amount Units: ug/ml



Manual Integration Results

RT: 13.26
Area: 6384
Amount: 0.016394
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:59:18

Audit Action: Split an Integrated Peak Audit Reason: Baseline

User Disabled Compound Report

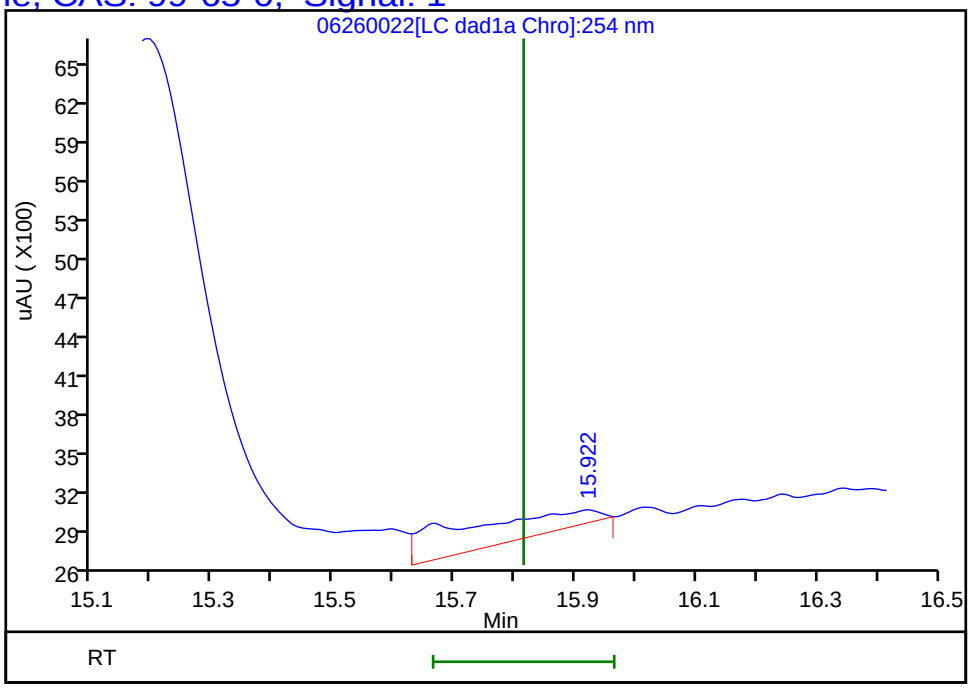
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260022.d

Injection Date:	27-Jun-2020 03:19:24	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 15.92
Response: 3085
Amount: 0.004576



Reviewer: zhangji, 27-Jun-2020 11:59:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

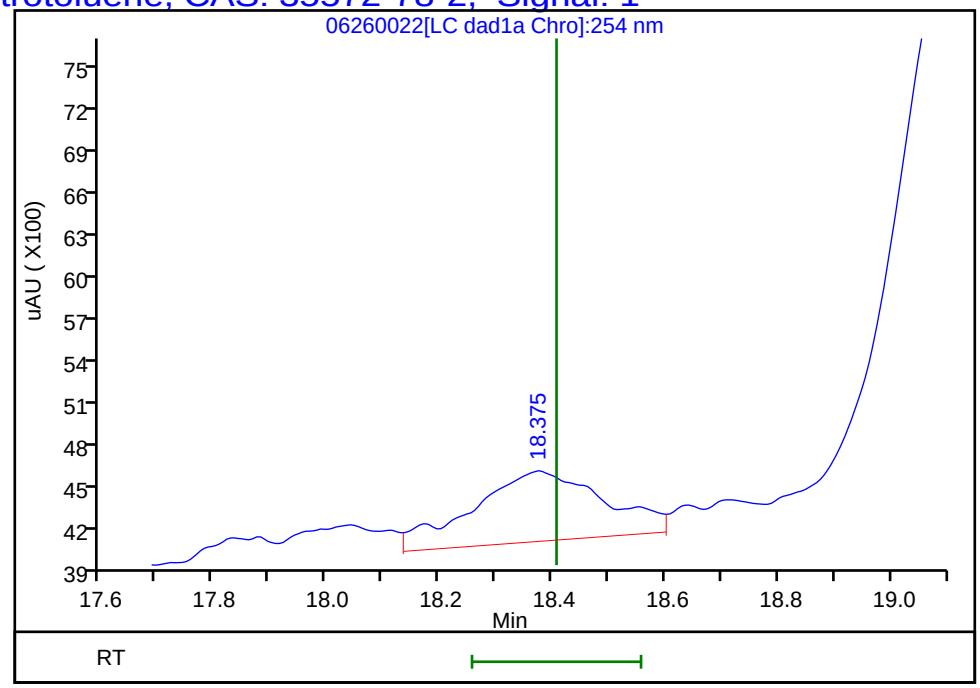
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260022.d				
Injection Date:	27-Jun-2020 03:19:24	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2, Signal: 1

RT: 18.38
Response: 7935
Amount: 0.017057



Reviewer: zhangji, 27-Jun-2020 11:59:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

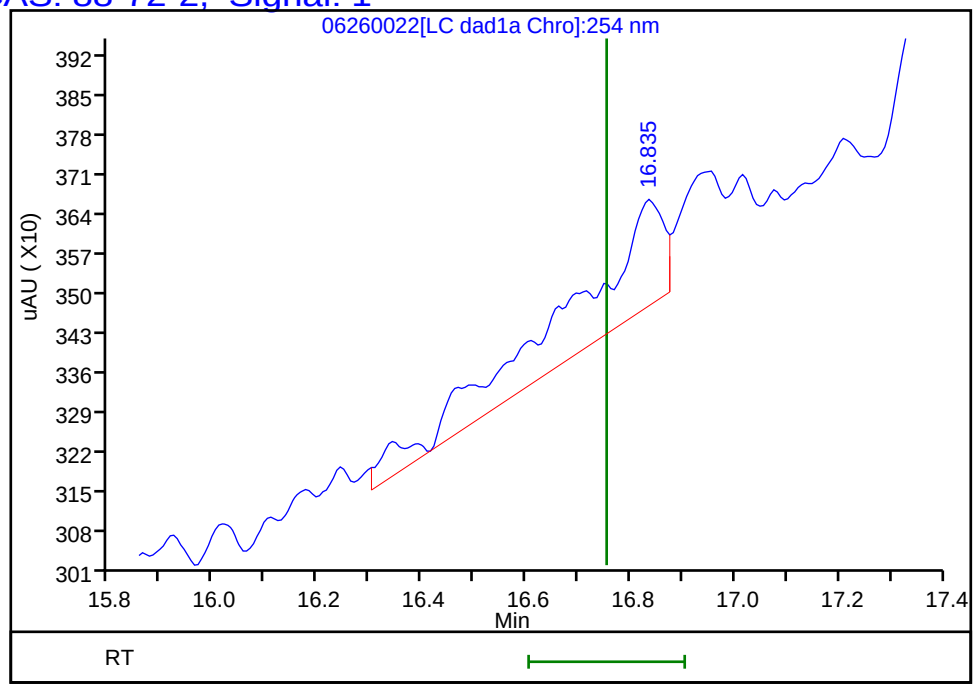
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260022.d				
Injection Date:	27-Jun-2020 03:19:24	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.84
Response: 2665
Amount: 0.009763



Reviewer: zhangji, 27-Jun-2020 11:59:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

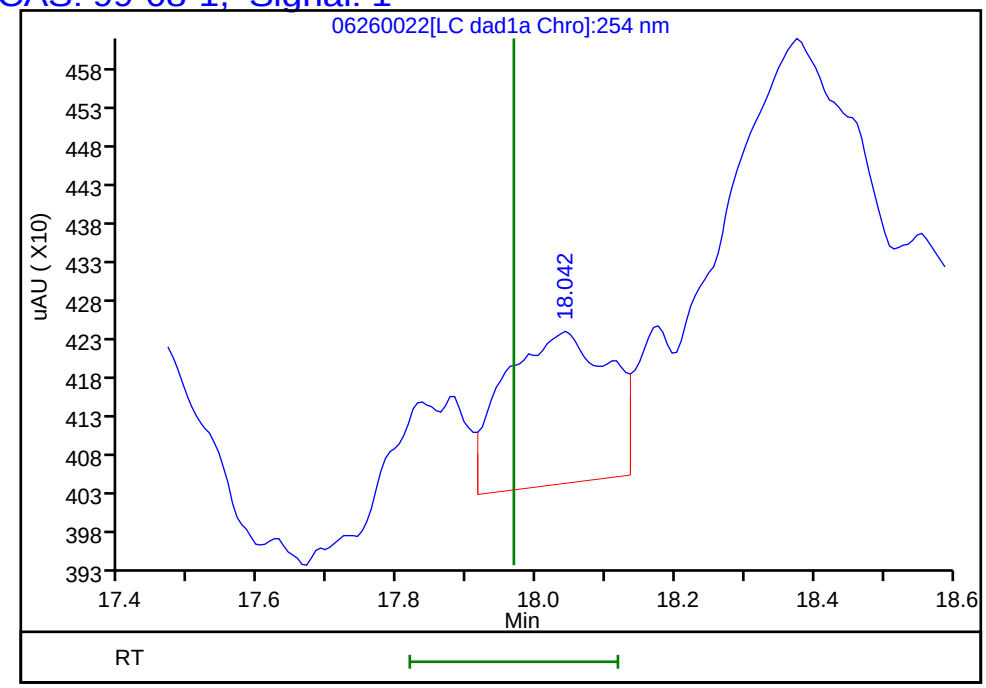
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260022.d				
Injection Date:	27-Jun-2020 03:19:24	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-7-A	Lab Sample ID:	280-137736-7		
Client ID:	G0296-20A				
Operator ID:	JZ	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	10.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 18.04
Response: 2055
Amount: 0.006888



Reviewer: zhangji, 27-Jun-2020 11:59:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0092-20A Lab Sample ID: 280-137736-8

Matrix: Water Lab File ID: 06240022.D

Analysis Method: 8330A Date Collected: 06/16/2020 10:40

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 475.4(mL) Date Analyzed: 06/24/2020 22:01

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499988 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.21	U	0.22	0.21	0.088
99-65-0	1,3-Dinitrobenzene	0.11	U	0.12	0.11	0.039
118-96-7	2,4,6-Trinitrotoluene	0.11	U	0.12	0.11	0.047
121-14-2	2,4-Dinitrotoluene	0.084	U	0.11	0.084	0.029
606-20-2	2,6-Dinitrotoluene	0.084	U	0.11	0.084	0.042
35572-78-2	2-Amino-4,6-dinitrotoluene	0.11	U	0.12	0.11	0.053
88-72-2	2-Nitrotoluene	0.21	U	0.22	0.21	0.090
99-08-1	3-Nitrotoluene	0.42	U M	0.42	0.42	0.21
19406-51-0	4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.061
99-99-0	4-Nitrotoluene	0.42	U M	0.43	0.42	0.11
2691-41-0	HMX	0.21	U	0.22	0.21	0.092
5755-27-1	MNX	0.42	U	2.1	0.42	0.16
121-82-4	RDX	0.21	U	0.22	0.21	0.054
479-45-8	Tetryl	0.11	U	0.12	0.11	0.033

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	98	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240022.D
Lims ID: 280-137736-A-8-A
Client ID: G0092-20A
Sample Type: Client
Inject. Date: 24-Jun-2020 22:01:18 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-8-A
Misc. Info.: 280-0092716-022
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:16 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 15:59:40

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 HMX	1		6.712			ND	
	6 MNX	1		7.384			ND	
	7 RDX	1		7.785			ND	
$	9 1,2-Dinitrobenzene	1	8.734	8.738	-0.004	27157	0.1965	M
	10 1,3,5-Trinitrobenzene	1		8.918			ND	
	11 1,3-Dinitrobenzene	1		9.565			ND	
	12 Nitrobenzene	1	9.934	9.945	-0.011	3904	0.0195	M
	14 Tetryl	1		10.252			ND	
	16 2,4,6-Trinitrotoluene	1		11.225			ND	
	17 4-Amino-2,6-dinitrotoluene	1		11.385			ND	
	18 2-Amino-4,6-dinitrotoluene	1		11.678			ND	
	19 2,6-Dinitrotoluene	1		11.818			ND	
	20 2,4-Dinitrotoluene	1		12.018			ND	
	21 o-Nitrotoluene	1		12.845			ND	
	22 p-Nitrotoluene	1		13.272			ND	U
	23 m-Nitrotoluene	1		13.865			ND	U

QC Flag Legend

Review Flags
M - Manually Integrated
U - Marked Undetected

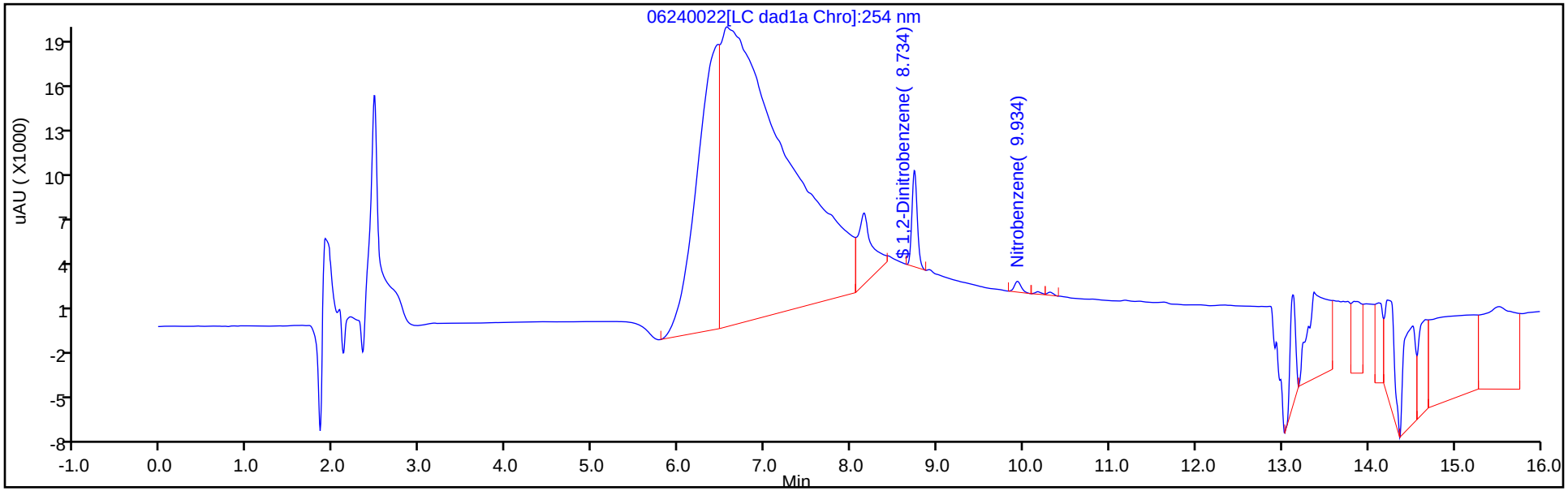
Report Date: 25-Jun-2020 21:10:17 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

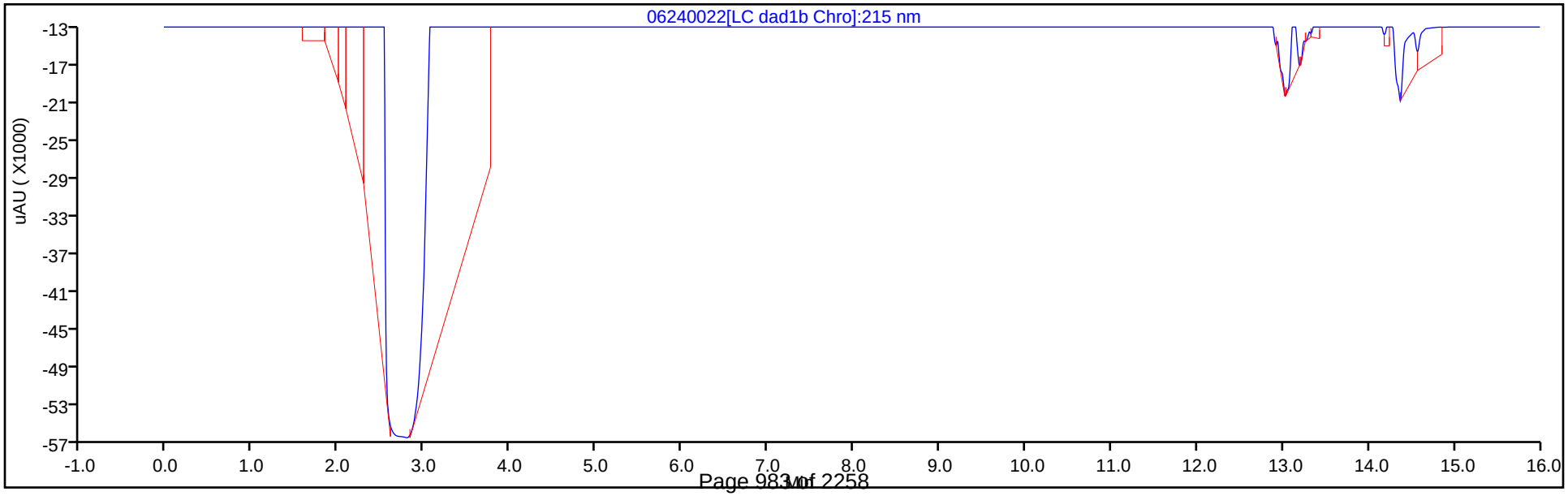
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240022.d

Injection Date:	24-Jun-2020 22:01:18	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-A-8-A	Lab Sample ID:	280-137736-8	Worklist Smp#:	22
Client ID:	G0092-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240022.D
Lims ID: 280-137736-A-8-A
Client ID: G0092-20A
Sample Type: Client
Inject. Date: 24-Jun-2020 22:01:18 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-8-A
Misc. Info.: 280-0092716-022
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:16 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 15:59:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1965	98.24

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

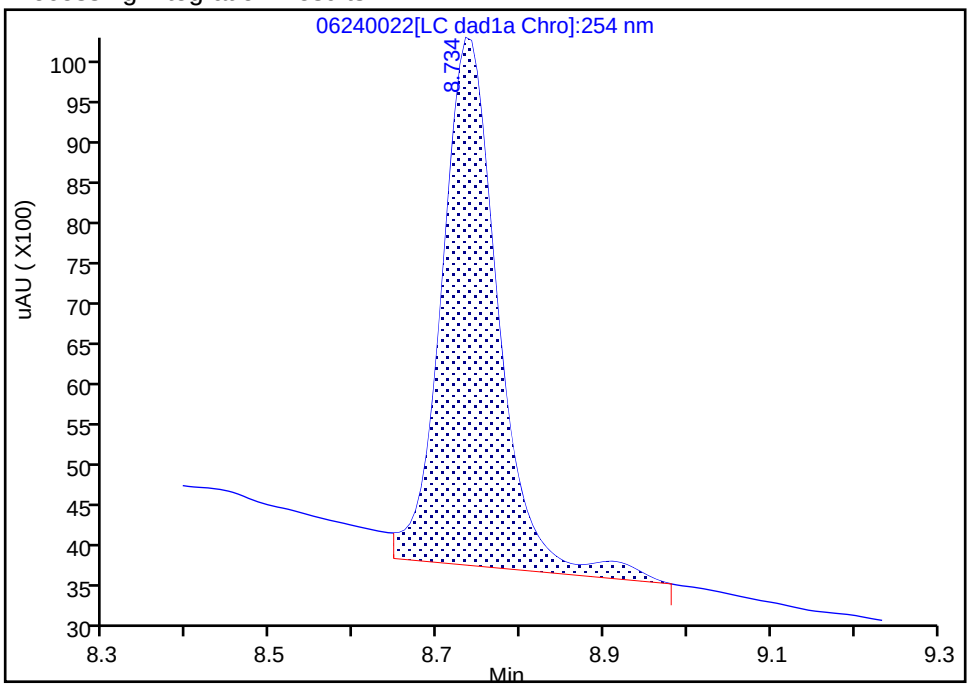
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240022.d				
Injection Date:	24-Jun-2020 22:01:18	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-8-A	Lab Sample ID:	280-137736-8		
Client ID:	G0092-20A				
Operator ID:	JZ	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

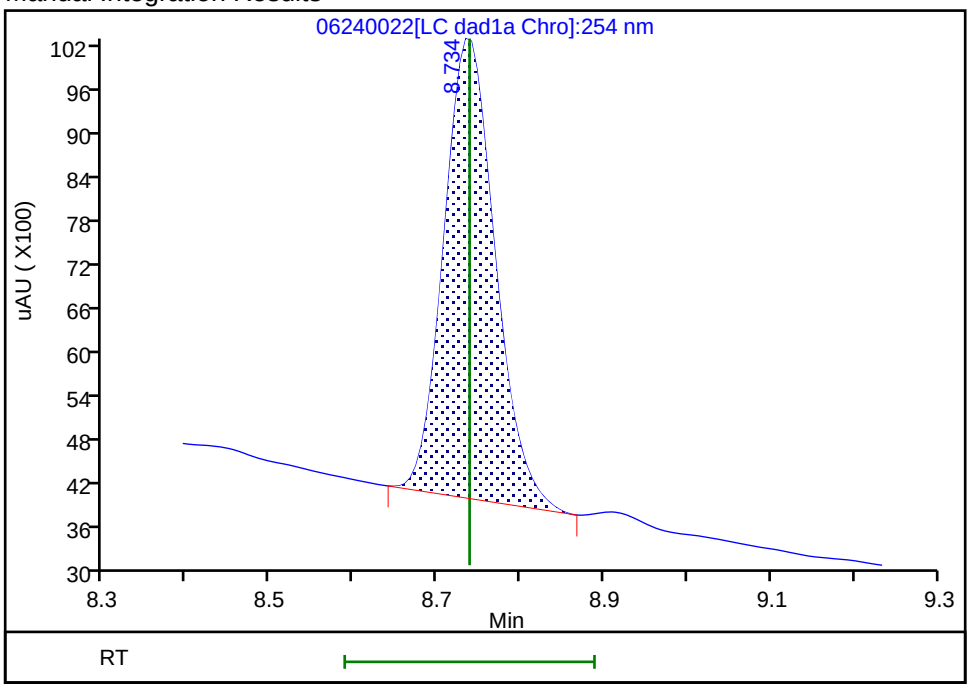
Processing Integration Results

RT: 8.73
Area: 30937
Amount: 0.223837
Amount Units: ug/mL



Manual Integration Results

RT: 8.73
Area: 27157
Amount: 0.196488
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 15:59:26

Audit Action: Manually Integrated Audit Reason: Baseline

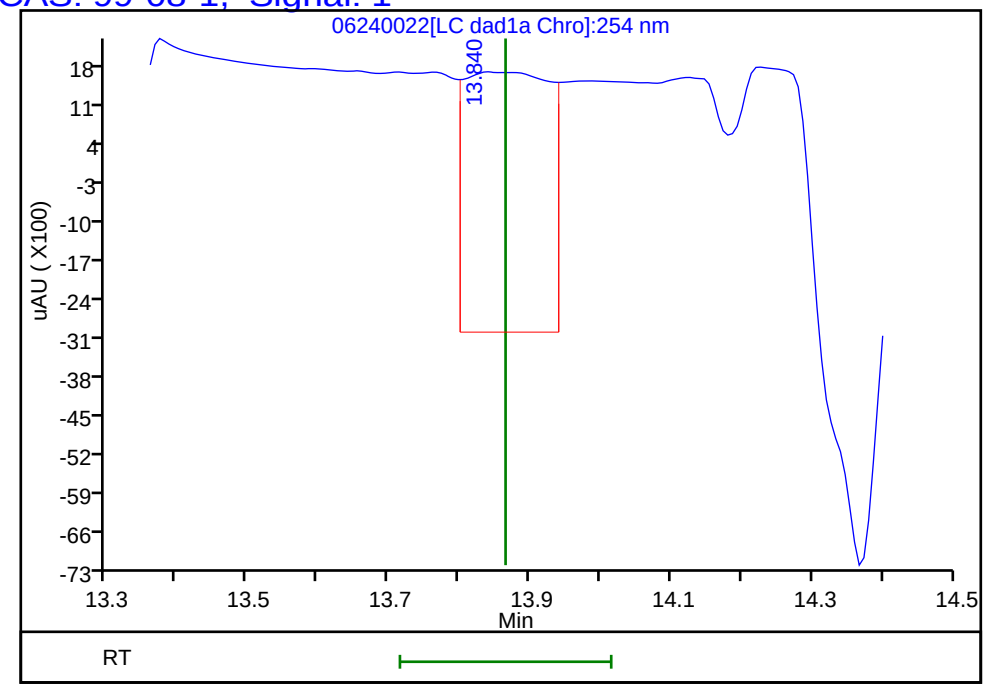
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240022.d				
Injection Date:	24-Jun-2020 22:01:18	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-8-A	Lab Sample ID:	280-137736-8		
Client ID:	G0092-20A				
Operator ID:	JZ	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

23 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 13.84
Response: 39016
Amount: 0.272785



Reviewer: zhangji, 25-Jun-2020 15:59:40
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

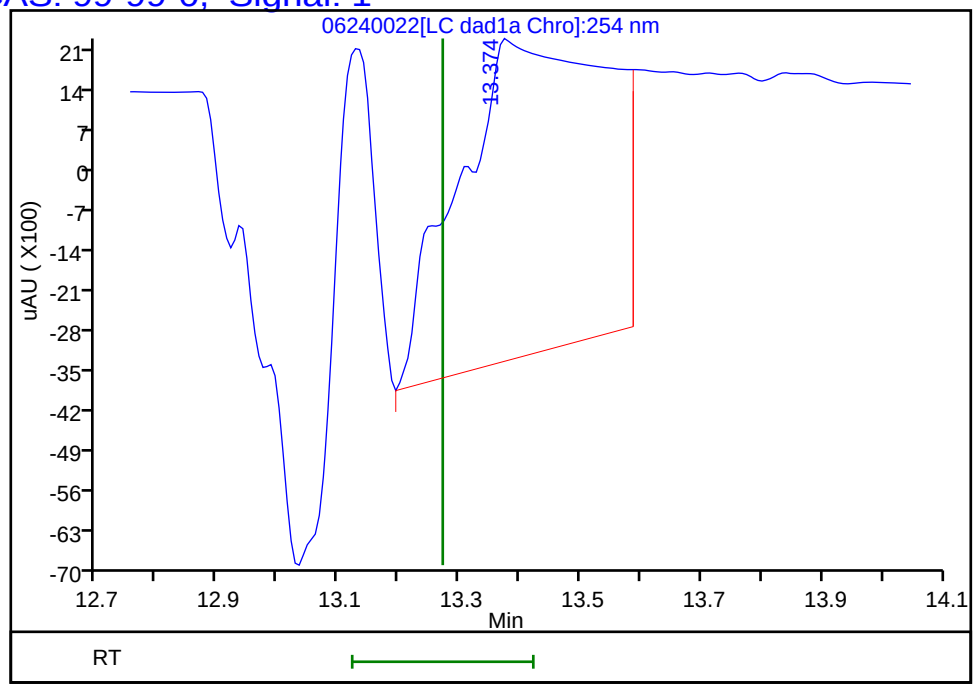
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240022.d

Injection Date:	24-Jun-2020 22:01:18	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-8-A	Lab Sample ID:	280-137736-8		
Client ID:	G0092-20A				
Operator ID:	JZ	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

22 p-Nitrotoluene, CAS: 99-99-0, Signal: 1

RT: 13.37
Response: 95485
Amount: 0.844962



Reviewer: zhangji, 25-Jun-2020 15:59:40
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

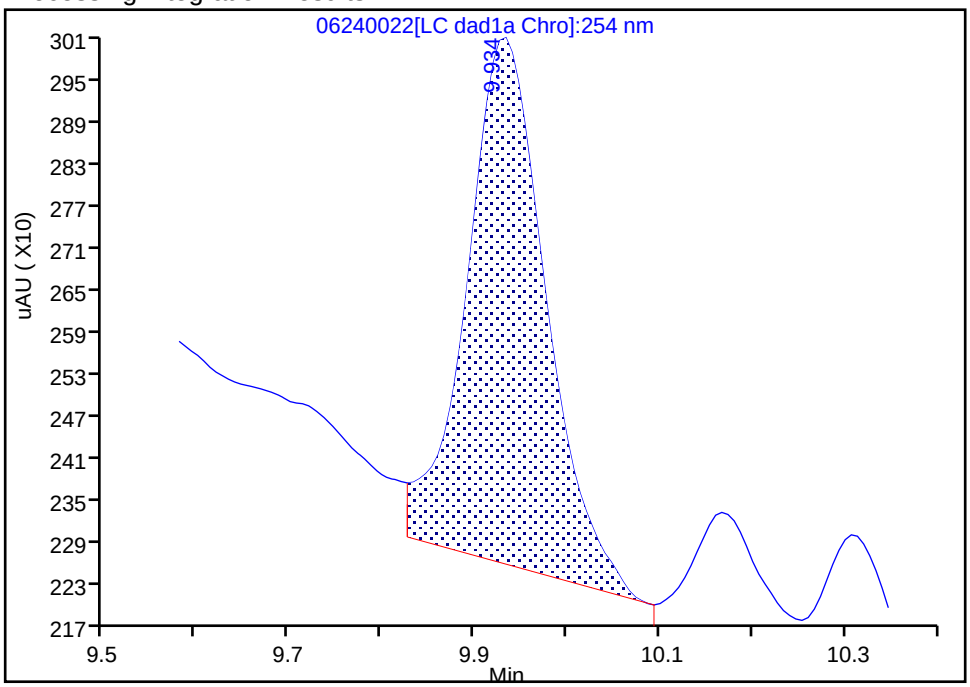
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240022.d				
Injection Date:	24-Jun-2020 22:01:18	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-8-A	Lab Sample ID:	280-137736-8		
Client ID:	G0092-20A				
Operator ID:	JZ	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

12 Nitrobenzene, CAS: 98-95-3

Signal: 1

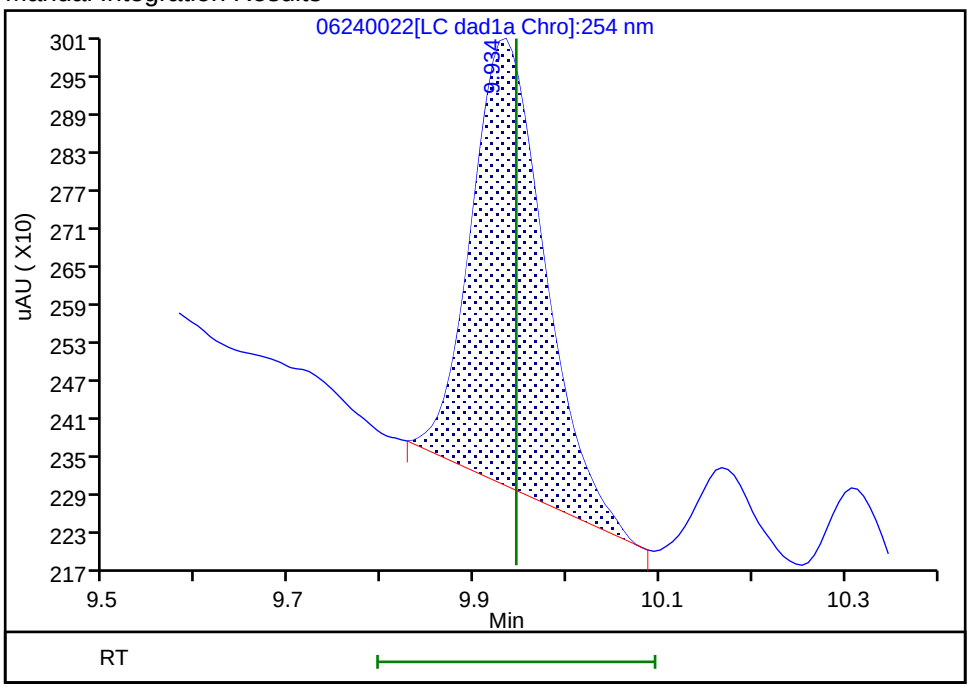
Processing Integration Results

RT: 9.93
Area: 4501
Amount: 0.022460
Amount Units: ug/mL



Manual Integration Results

RT: 9.93
Area: 3904
Amount: 0.019481
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 15:59:33

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0092-20A Lab Sample ID: 280-137736-8

Matrix: Water Lab File ID: 06260023.D

Analysis Method: 8330A Date Collected: 06/16/2020 10:40

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 475.4(mL) Date Analyzed: 06/27/2020 03:54

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

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

Analysis Batch No.: 500326 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
98-95-3	Nitrobenzene	0.21	U	0.22	0.21	0.096

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	96		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260023.D
Lims ID: 280-137736-A-8-A
Client ID: G0092-20A
Sample Type: Client
Inject. Date: 27-Jun-2020 03:54:24 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-8-A
Misc. Info.: 280-0092796-023
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 15:28:01 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 27-Jun-2020 11:59:32

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1		7.154			ND	
7 MNX	1		7.919			ND	
8 RDX	1		9.367			ND	U
9 Nitrobenzene	1		12.274			ND	
$ 10 1,2-Dinitrobenzene	1	13.251	13.281	-0.030	55320	0.1929	
12 1,3-Dinitrobenzene	1		15.814			ND	
14 o-Nitrotoluene	1		16.754			ND	U
15 p-Nitrotoluene	1		17.034			ND	
16 4-Amino-2,6-dinitrotoluene	1		17.474			ND	
17 m-Nitrotoluene	1		17.967			ND	U
18 2-Amino-4,6-dinitrotoluene	1		18.407			ND	
19 1,3,5-Trinitrobenzene	1		19.147			ND	U
20 2,6-Dinitrotoluene	1		20.074			ND	
21 2,4-Dinitrotoluene	1		20.587			ND	
22 Tetryl	1		23.887			ND	
23 2,4,6-Trinitrotoluene	1		24.907			ND	

QC Flag Legend

Review Flags
U - Marked Undetected

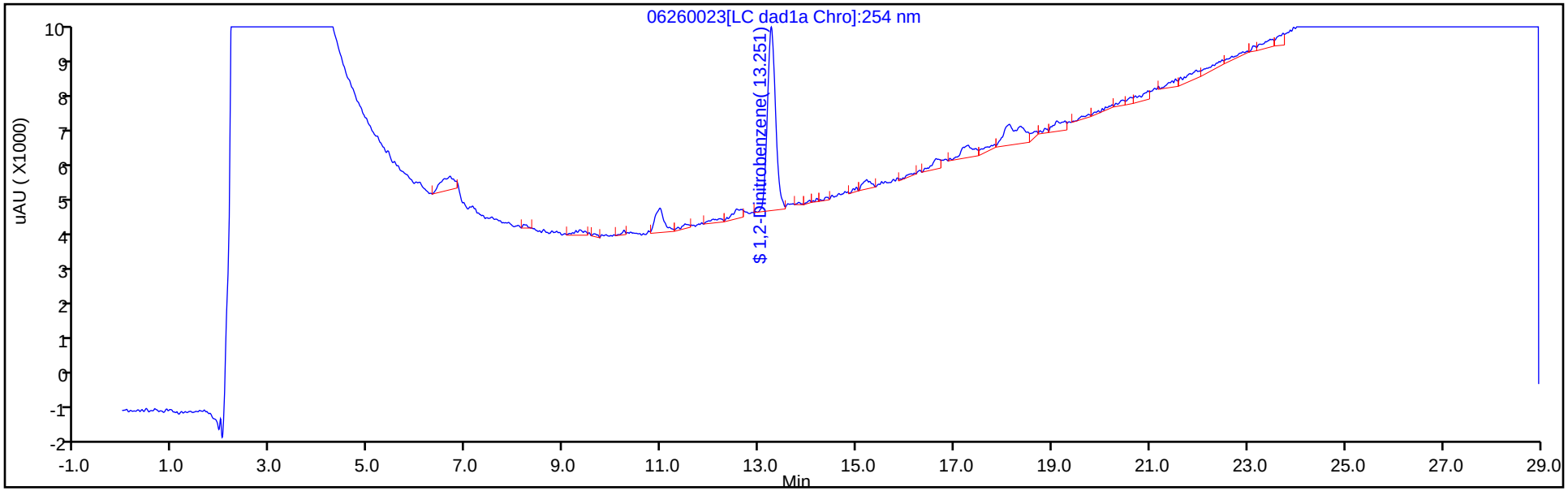
Report Date: 27-Jun-2020 15:28:03 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

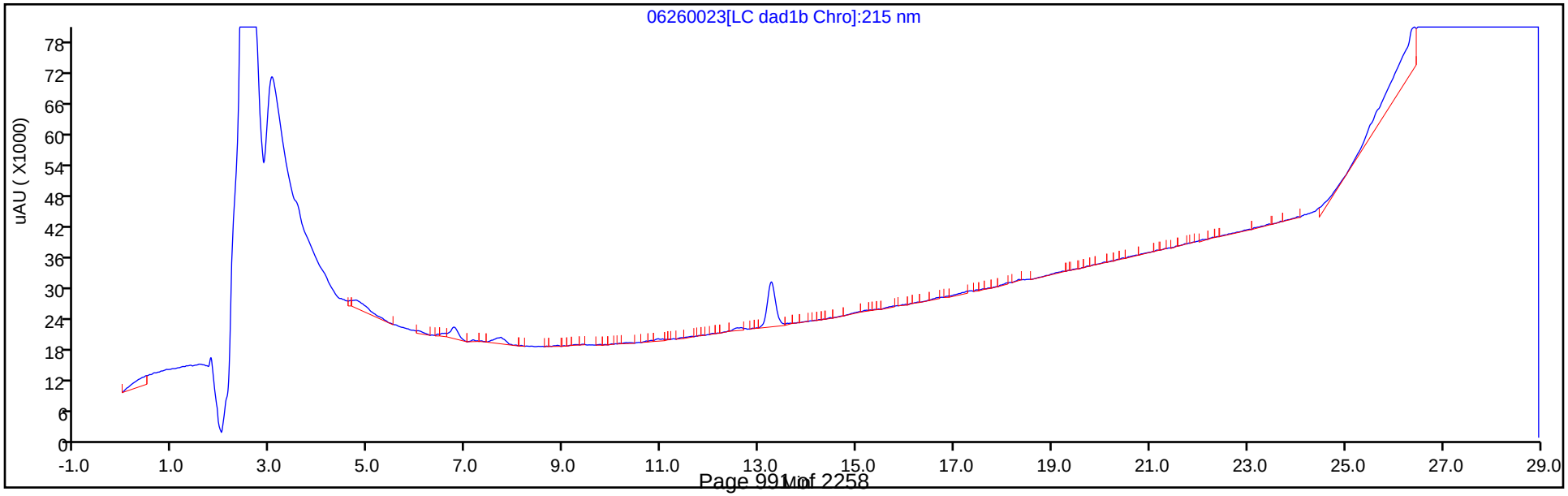
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260023.d

Injection Date:	27-Jun-2020 03:54:24	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137736-A-8-A	Lab Sample ID:	280-137736-8	Worklist Smp#:	23
Client ID:	G0092-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260023.D				
Lims ID:	280-137736-A-8-A				
Client ID:	G0092-20A				
Sample Type:	Client				
Inject. Date:	27-Jun-2020 03:54:24	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-8-A				
Misc. Info.:	280-0092796-023				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 15:28:01	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1036				
First Level Reviewer: zhangji		Date:	27-Jun-2020 11:59:32		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1929	96.46

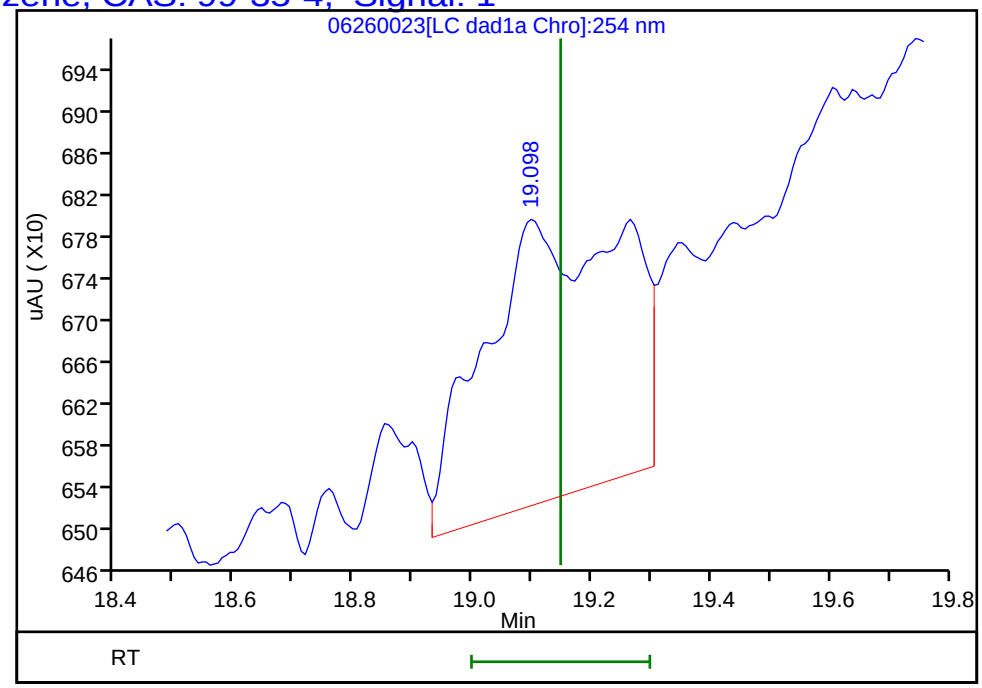
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260023.d				
Injection Date:	27-Jun-2020 03:54:24	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-8-A	Lab Sample ID:	280-137736-8		
Client ID:	G0092-20A				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4, Signal: 1

RT: 19.10
Response: 4308
Amount: 0.009118



Reviewer: zhangji, 27-Jun-2020 11:59:32
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

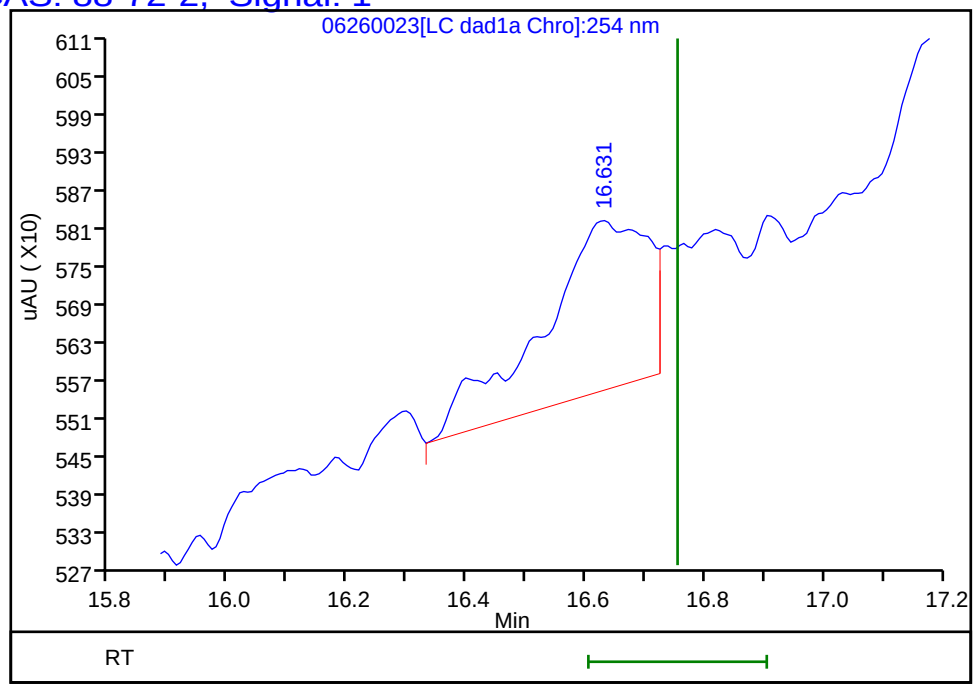
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260023.d				
Injection Date:	27-Jun-2020 03:54:24	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-8-A	Lab Sample ID:	280-137736-8		
Client ID:	G0092-20A				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.63
Response: 3314
Amount: 0.012141



Reviewer: zhangji, 27-Jun-2020 11:59:32
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

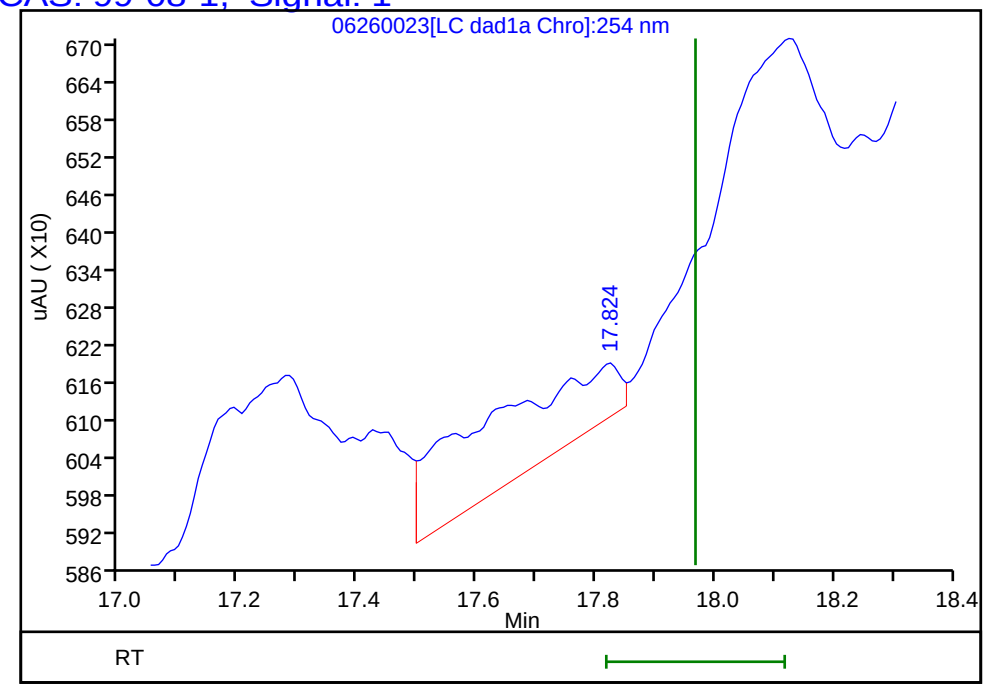
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260023.d				
Injection Date:	27-Jun-2020 03:54:24	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-8-A	Lab Sample ID:	280-137736-8		
Client ID:	G0092-20A				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 17.82
Response: 2266
Amount: 0.007596



Reviewer: zhangji, 27-Jun-2020 11:59:32
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

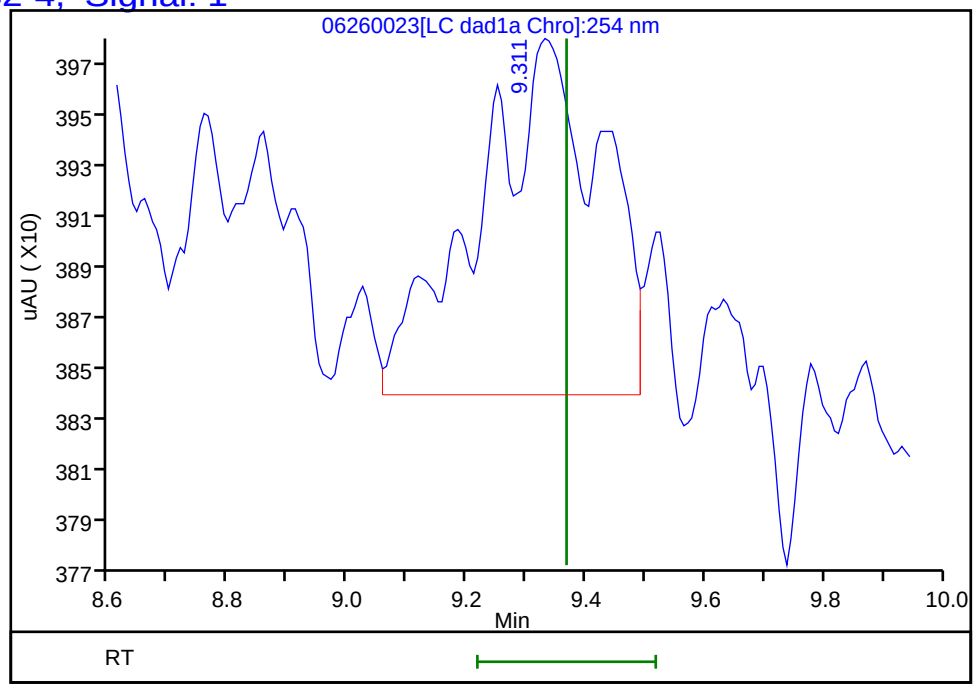
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260023.d				
Injection Date:	27-Jun-2020 03:54:24	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-8-A	Lab Sample ID:	280-137736-8		
Client ID:	G0092-20A				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

8 RDX, CAS: 121-82-4, Signal: 1

RT: 9.31
Response: 1980
Amount: 0.008103



Reviewer: zhangji, 27-Jun-2020 11:59:32
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: PZ019-20A Lab Sample ID: 280-137736-9

Matrix: Water Lab File ID: 06240023.D

Analysis Method: 8330A Date Collected: 06/16/2020 12:00

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 476(mL) Date Analyzed: 06/24/2020 22:24

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499988 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.21	U	0.22	0.21	0.088
99-65-0	1,3-Dinitrobenzene	0.11	U	0.12	0.11	0.039
118-96-7	2,4,6-Trinitrotoluene	0.11	U	0.12	0.11	0.047
121-14-2	2,4-Dinitrotoluene	0.084	U	0.11	0.084	0.029
606-20-2	2,6-Dinitrotoluene	0.084	U	0.11	0.084	0.042
35572-78-2	2-Amino-4,6-dinitrotoluene	0.11	U	0.12	0.11	0.053
88-72-2	2-Nitrotoluene	0.21	U	0.22	0.21	0.090
99-08-1	3-Nitrotoluene	0.42	U M	0.42	0.42	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	0.13	U	0.16	0.13	0.061
99-99-0	4-Nitrotoluene	0.42	U	0.43	0.42	0.11
2691-41-0	HMX	0.21	U	0.22	0.21	0.092
5755-27-1	MNX	0.42	U M	2.1	0.42	0.16
98-95-3	Nitrobenzene	0.21	U M	0.22	0.21	0.096
121-82-4	RDX	0.21	U	0.22	0.21	0.054
479-45-8	Tetryl	0.11	U	0.12	0.11	0.033

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	99	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240023.D
Lims ID: 280-137736-A-9-A
Client ID: PZ019-20A
Sample Type: Client
Inject. Date: 24-Jun-2020 22:24:18 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-9-A
Misc. Info.: 280-0092716-023
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:16 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:05:04

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
1	2,6-diamino-4-nitrotoluene	1	6.568	6.567	0.001	7717	0.0307	M
2	TNX	1		6.617			ND	
3	HMX	1		6.712			ND	
4	2,4-diamino-6-nitrotoluene	1		6.753			ND	
5	DNX	1		6.937			ND	
6	MNX	1		7.384			ND	U
7	RDX	1		7.785			ND	
8	2,4,6-Trinitrophenol	1		8.085			ND	
$ 9	1,2-Dinitrobenzene	1	8.721	8.738	-0.017	27235	0.1971	M
10	1,3,5-Trinitrobenzene	1		8.918			ND	
11	1,3-Dinitrobenzene	1		9.565			ND	
12	Nitrobenzene	1		9.945			ND	U
13	3,5-Dinitroaniline	1	10.207	10.207	0.000	1016	0.002551	
14	Tetryl	1		10.252			ND	
15	Nitroglycerin	2		10.765			ND	
16	2,4,6-Trinitrotoluene	1		11.225			ND	
17	4-Amino-2,6-dinitrotoluene	1		11.385			ND	
18	2-Amino-4,6-dinitrotoluene	1		11.678			ND	
19	2,6-Dinitrotoluene	1		11.818			ND	
20	2,4-Dinitrotoluene	1		12.018			ND	
21	o-Nitrotoluene	1		12.845			ND	
22	p-Nitrotoluene	1		13.272			ND	
23	m-Nitrotoluene	1		13.865			ND	U
24	PETN	2		14.958			ND	
25	Ammonium Picrate	1		0.000			ND	
26	Triamine Trinitrobenzene	1		0.000			ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

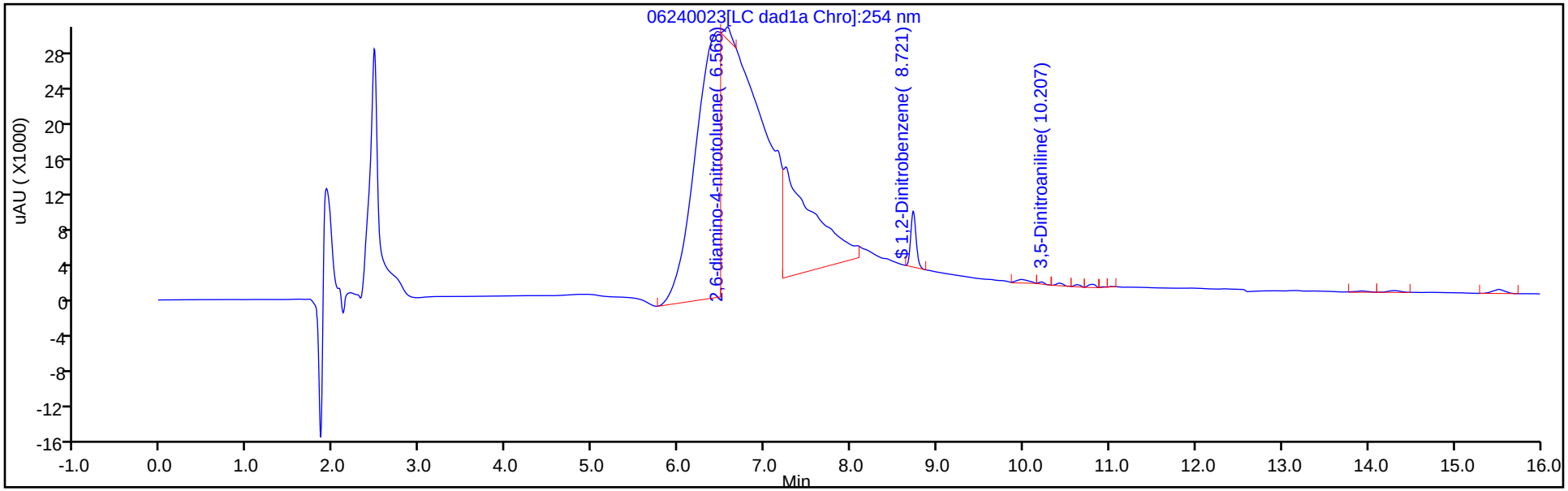
Report Date: 25-Jun-2020 21:10:17 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

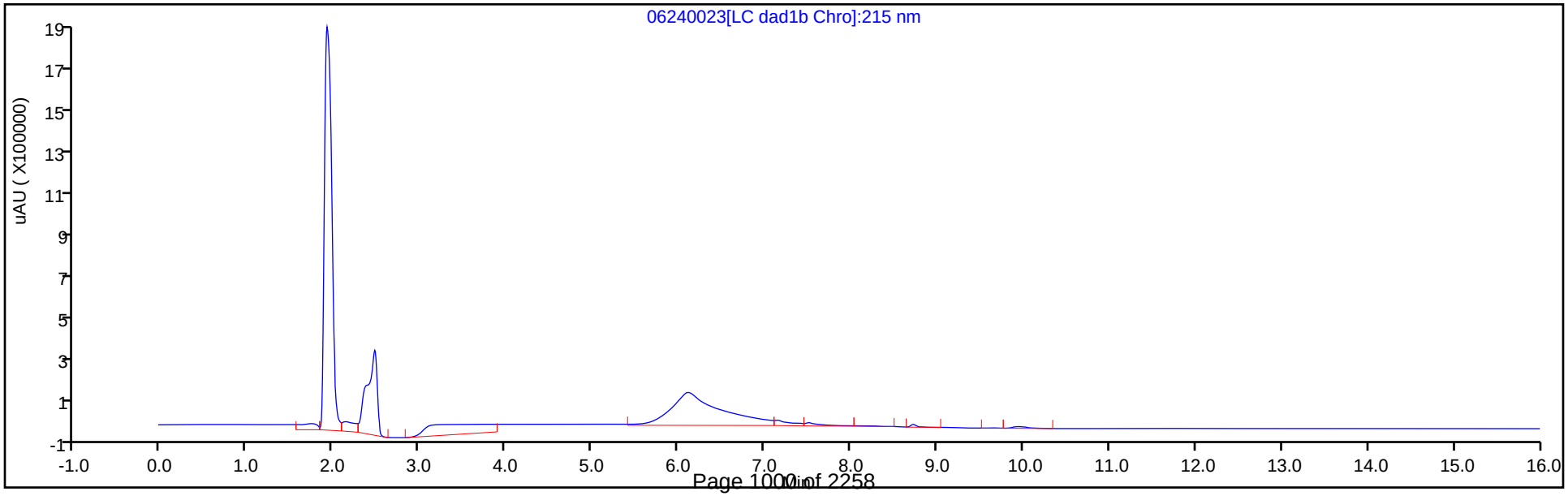
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240023.d

Injection Date:	24-Jun-2020 22:24:18	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-A-9-A	Lab Sample ID:	280-137736-9	Worklist Smp#:	23
Client ID:	PZ019-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240023.D				
Lims ID:	280-137736-A-9-A				
Client ID:	PZ019-20A				
Sample Type:	Client				
Inject. Date:	24-Jun-2020 22:24:18	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-9-A				
Misc. Info.:	280-0092716-023				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	25-Jun-2020 21:10:16	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1063				
First Level Reviewer: zhangji		Date:	25-Jun-2020 16:05:04		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1971	98.53

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

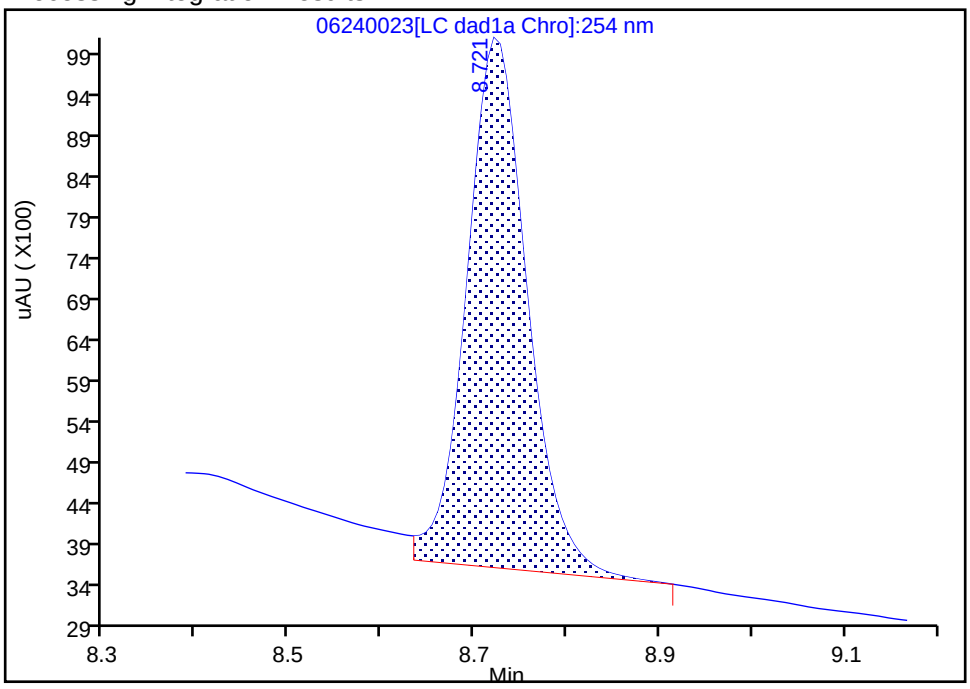
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240023.d				
Injection Date:	24-Jun-2020 22:24:18	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-9-A	Lab Sample ID:	280-137736-9		
Client ID:	PZ019-20A				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

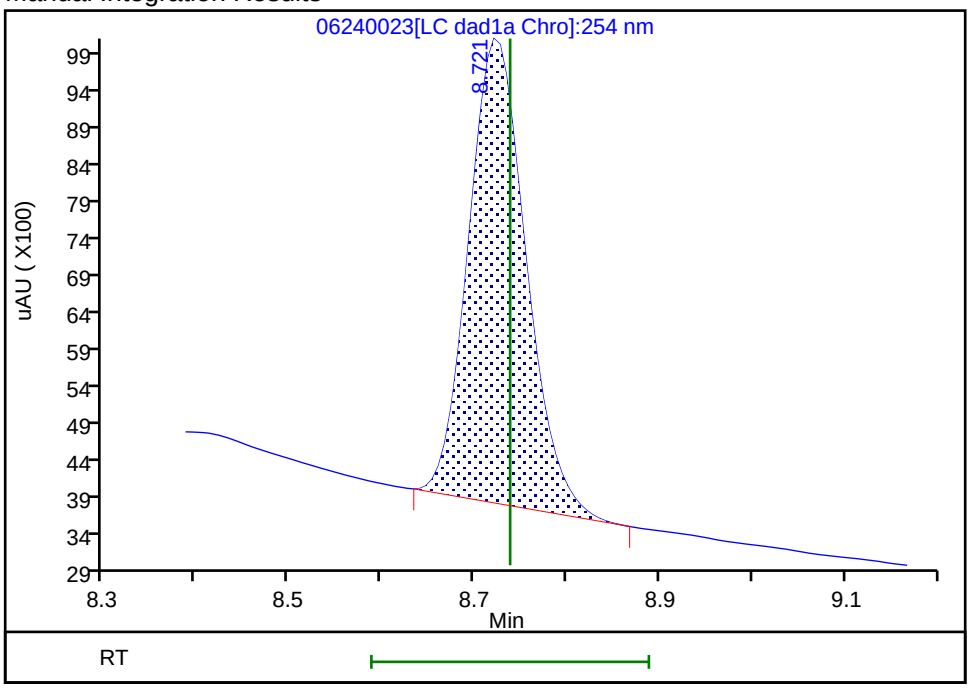
Processing Integration Results

RT: 8.72
Area: 29582
Amount: 0.214033
Amount Units: ug/mL



Manual Integration Results

RT: 8.72
Area: 27235
Amount: 0.197052
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:04:40

Audit Action: Manually Integrated Audit Reason: Baseline

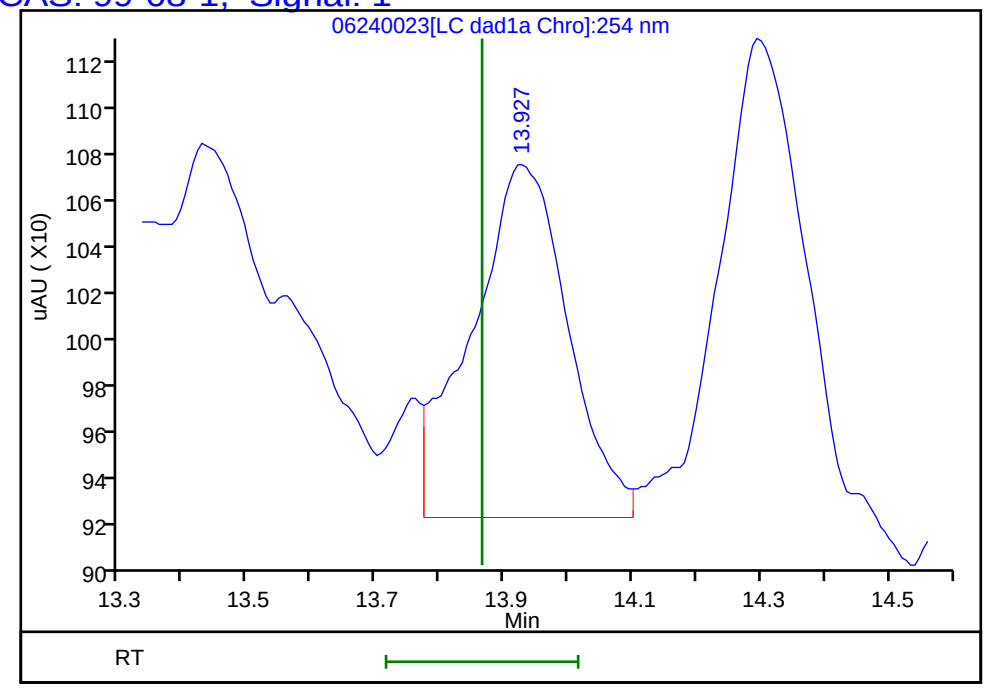
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240023.d				
Injection Date:	24-Jun-2020 22:24:18	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-9-A	Lab Sample ID:	280-137736-9		
Client ID:	PZ019-20A				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

23 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 13.93
Response: 1549
Amount: 0.010830



Reviewer: zhangji, 25-Jun-2020 16:05:04
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

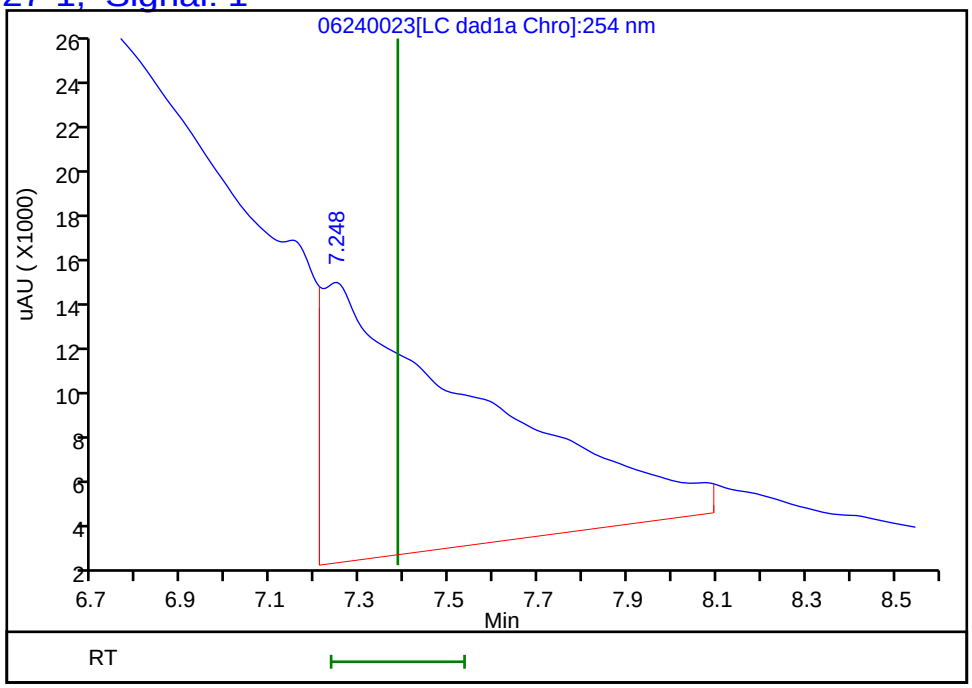
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240023.d				
Injection Date:	24-Jun-2020 22:24:18	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-9-A	Lab Sample ID:	280-137736-9		
Client ID:	PZ019-20A				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.25
Response: 305841
Amount: 1.929058



Reviewer: zhangji, 25-Jun-2020 16:05:04
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

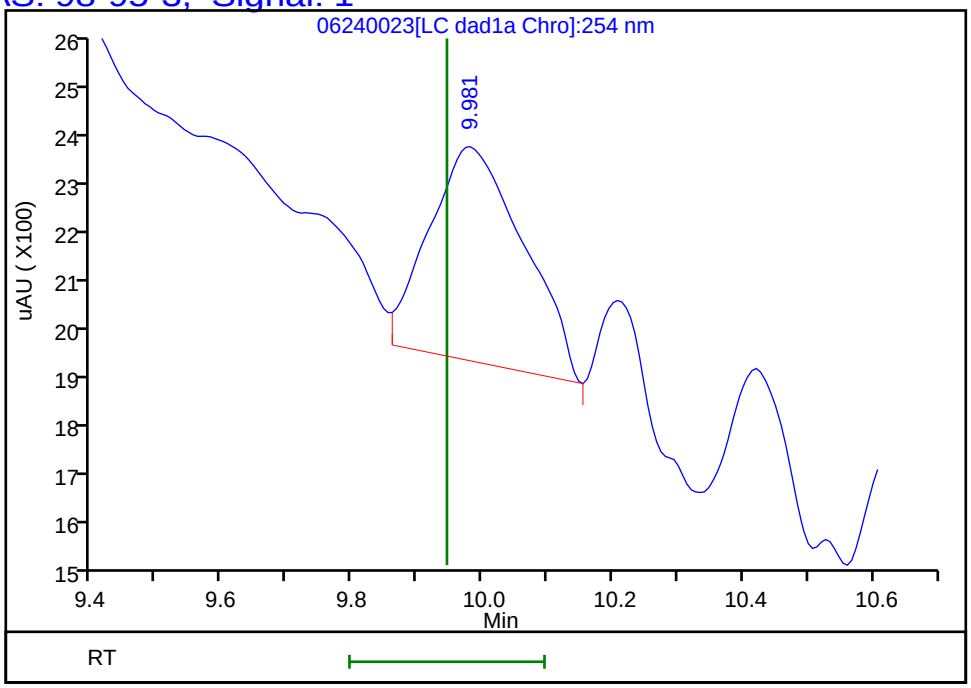
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240023.d				
Injection Date:	24-Jun-2020 22:24:18	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-9-A	Lab Sample ID:	280-137736-9		
Client ID:	PZ019-20A				
Operator ID:	JZ	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

12 Nitrobenzene, CAS: 98-95-3, Signal: 1

RT: 9.98
Response: 4143
Amount: 0.020673



Reviewer: zhangji, 25-Jun-2020 16:05:04
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: PZ020-20A Lab Sample ID: 280-137736-10

Matrix: Water Lab File ID: 06240049.D

Analysis Method: 8330A Date Collected: 06/15/2020 15:40

Extraction Method: 3535 Date Extracted: 06/19/2020 15:47

Sample wt/vol: 480.5(mL) Date Analyzed: 06/25/2020 08:22

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499989 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	1.5	M	0.22	0.21	0.088
99-65-0	1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.038
118-96-7	2,4,6-Trinitrotoluene	2.2		0.11	0.10	0.047
121-14-2	2,4-Dinitrotoluene	0.083	U	0.10	0.083	0.029
606-20-2	2,6-Dinitrotoluene	0.083	U	0.10	0.083	0.042
35572-78-2	2-Amino-4,6-dinitrotoluene	0.10	U M Q	0.11	0.10	0.053
88-72-2	2-Nitrotoluene	0.21	U Q	0.22	0.21	0.089
99-08-1	3-Nitrotoluene	0.42	U M Q	0.42	0.42	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	0.12	U M Q	0.16	0.12	0.060
99-99-0	4-Nitrotoluene	0.42	U Q	0.43	0.42	0.10
2691-41-0	HMX	0.21	U	0.22	0.21	0.091
5755-27-1	MNX	0.42	U M	2.1	0.42	0.16
121-82-4	RDX	0.58	M	0.22	0.21	0.054
479-45-8	Tetryl	0.10	U M	0.11	0.10	0.033

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	97	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240049.D
Lims ID: 280-137736-A-10-A
Client ID: PZ020-20A
Sample Type: Client
Inject. Date: 25-Jun-2020 08:22:41 ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-10-
Misc. Info.: 280-0092716-049
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:09:52 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:16:10

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1		6.712			ND	
6 MNX	1		7.384			ND	MU
7 RDX	1	7.779	7.785	-0.006	6554	0.0562	M
$ 9 1,2-Dinitrobenzene	1	8.732	8.738	-0.006	26839	0.1942	M
10 1,3,5-Trinitrobenzene	1	8.919	8.918	0.001	32620	0.1416	M
11 1,3-Dinitrobenzene	1		9.565			ND	
12 Nitrobenzene	1	9.905	9.945	-0.040	2797	0.0140	M
14 Tetryl	1		10.252			ND	MU
16 2,4,6-Trinitrotoluene	1	11.185	11.225	-0.040	42336	0.2075	
17 4-Amino-2,6-dinitrotoluene	1		11.385			ND	U
18 2-Amino-4,6-dinitrotoluene	1		11.678			ND	U
19 2,6-Dinitrotoluene	1		11.818			ND	
20 2,4-Dinitrotoluene	1		12.018			ND	
21 o-Nitrotoluene	1		12.845			ND	
22 p-Nitrotoluene	1		13.272			ND	
23 m-Nitrotoluene	1		13.865			ND	U

QC Flag Legend

Review Flags
M - Manually Integrated
U - Marked Undetected

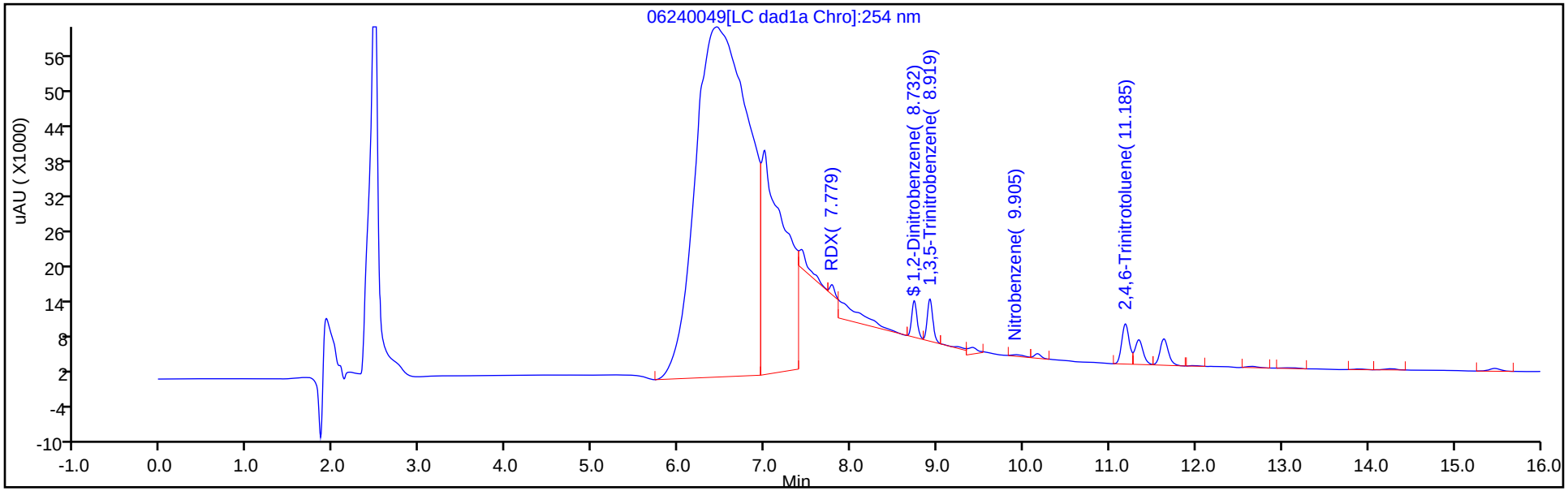
Report Date: 25-Jun-2020 21:09:54 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

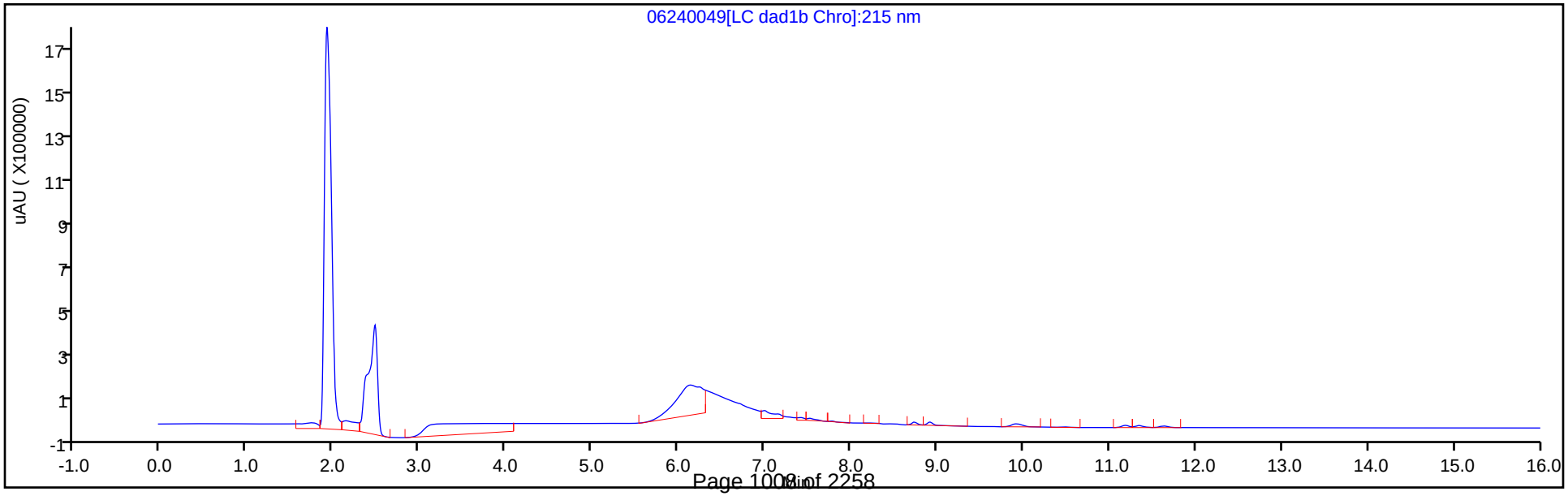
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240049.d

Injection Date:	25-Jun-2020 08:22:41	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-A-10-A	Lab Sample ID:	280-137736-10	Worklist Smp#:	49
Client ID:	PZ020-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	49
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240049.D
Lims ID: 280-137736-A-10-A
Client ID: PZ020-20A
Sample Type: Client
Inject. Date: 25-Jun-2020 08:22:41 ALS Bottle#: 49 Worklist Smp#: 49
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-10-
Misc. Info.: 280-0092716-049
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:09:52 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:16:10

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1942	97.09

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

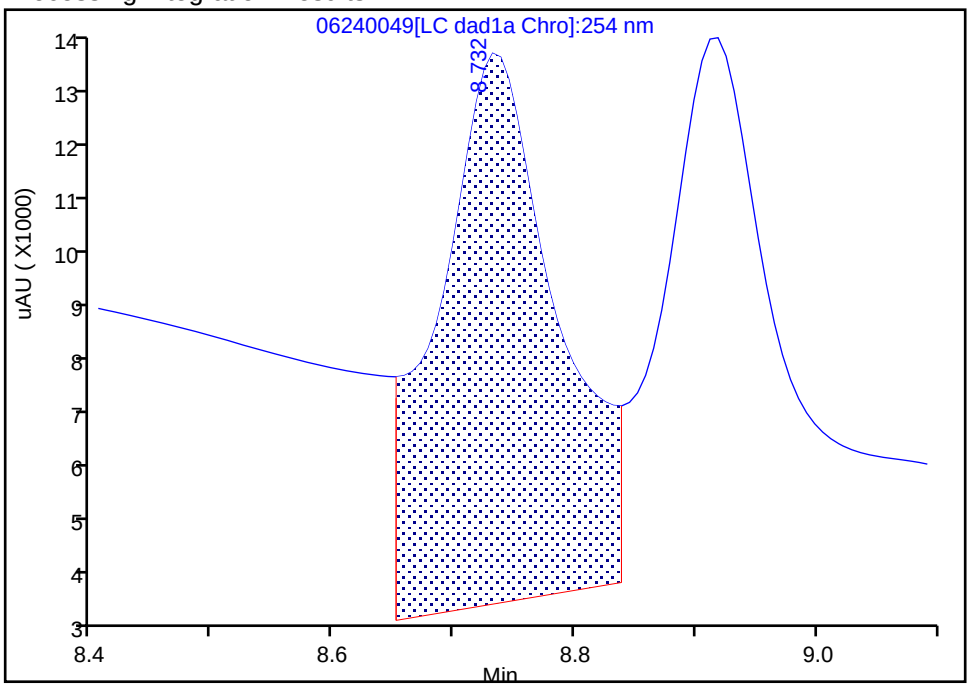
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240049.d				
Injection Date:	25-Jun-2020 08:22:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	49	Worklist Smp#:	49
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

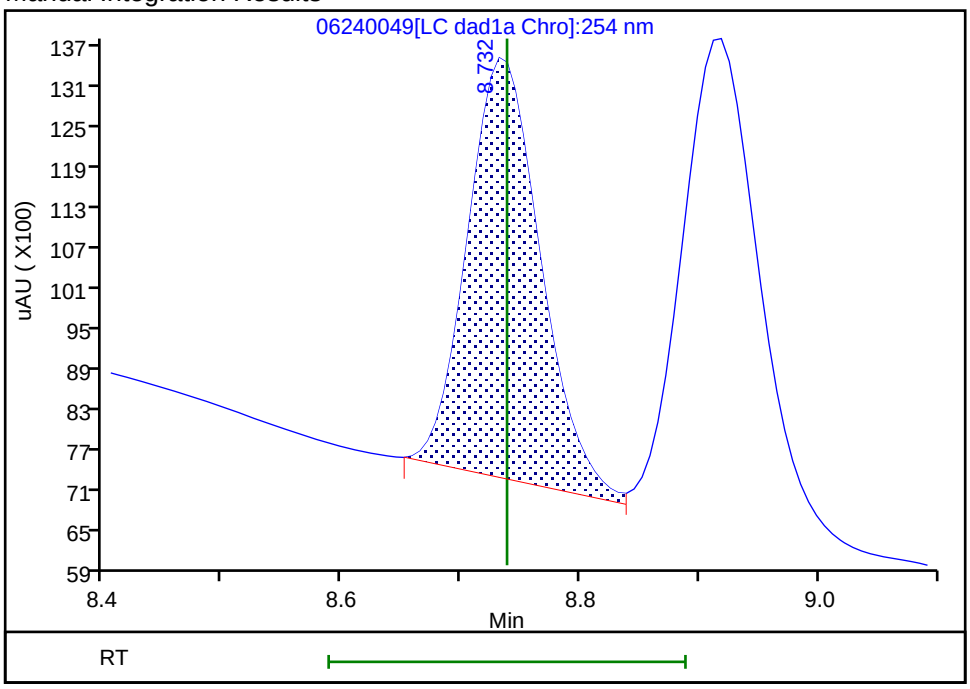
Processing Integration Results

RT: 8.73
Area: 69231
Amount: 0.500904
Amount Units: ug/mL



Manual Integration Results

RT: 8.73
Area: 26839
Amount: 0.194187
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:15:41

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

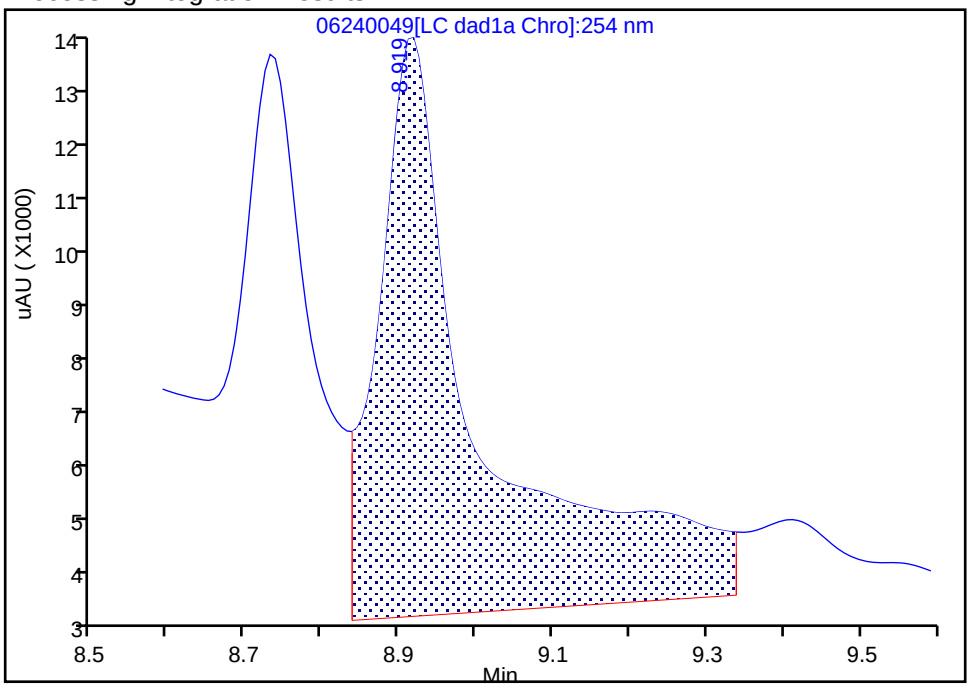
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240049.d				
Injection Date:	25-Jun-2020 08:22:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	49	Worklist Smp#:	49
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

10 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

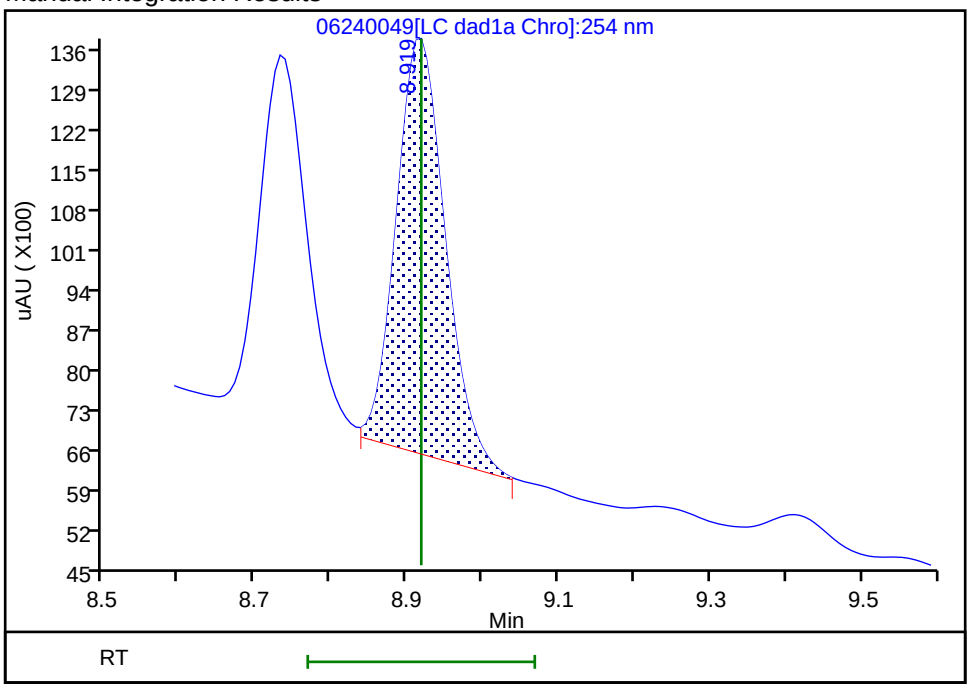
Processing Integration Results

RT: 8.92
Area: 93098
Amount: 0.404231
Amount Units: ug/mL



Manual Integration Results

RT: 8.92
Area: 32620
Amount: 0.141636
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:15:44

Audit Action: Split an Integrated Peak Audit Reason: Baseline

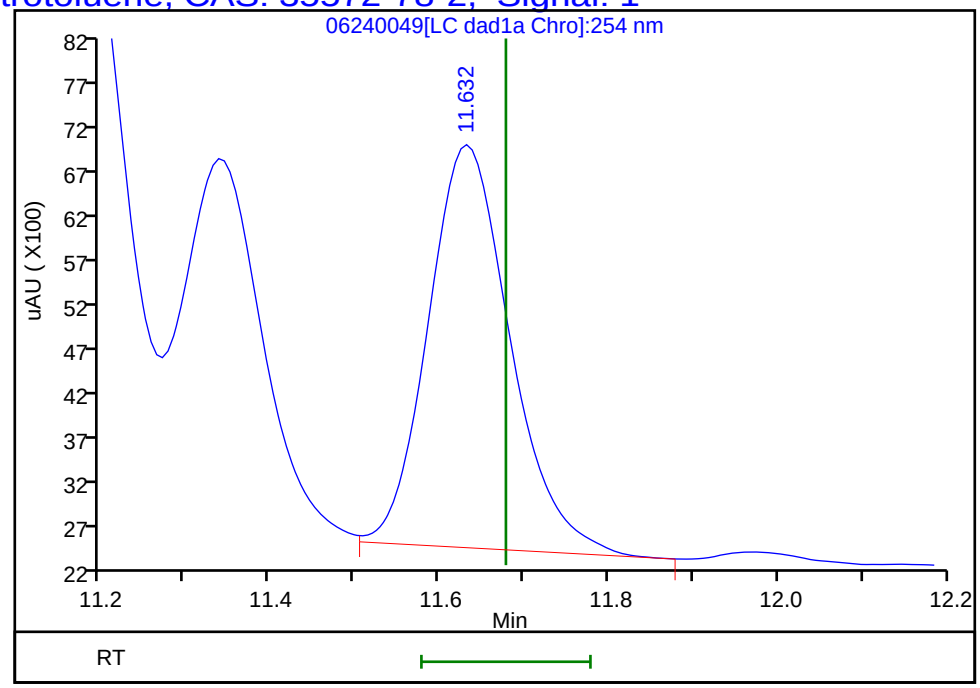
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240049.d				
Injection Date:	25-Jun-2020 08:22:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	49	Worklist Smp#:	49
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2, Signal: 1

RT: 11.63
Response: 30537
Amount: 0.150565



Reviewer: zhangji, 25-Jun-2020 16:16:10
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

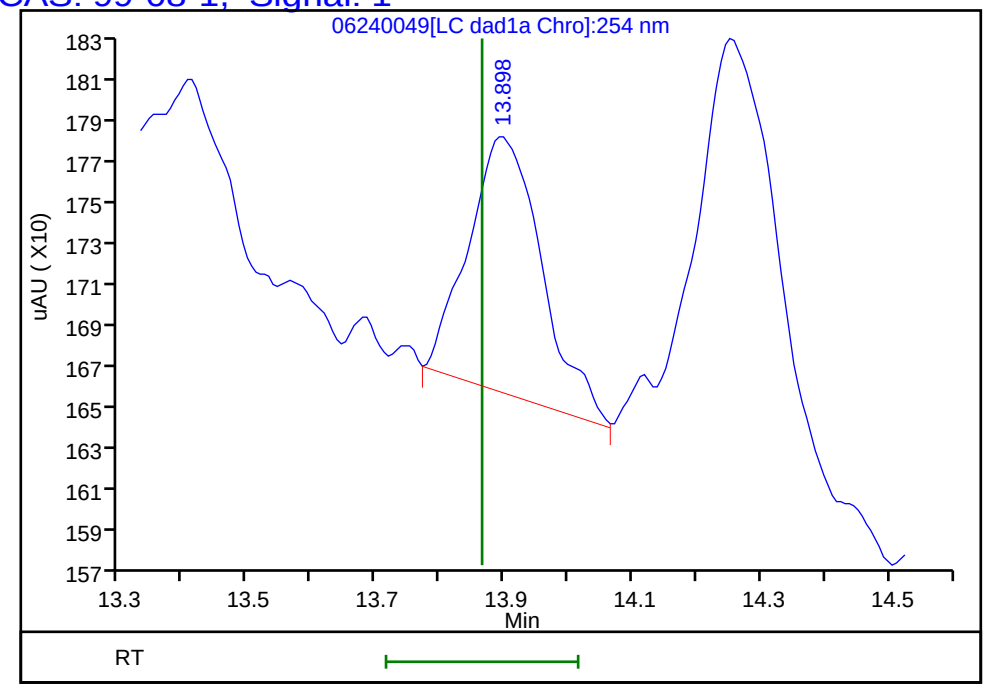
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240049.d				
Injection Date:	25-Jun-2020 08:22:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	49	Worklist Smp#:	49
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

23 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 13.90
Response: 999
Amount: 0.006985



Reviewer: zhangji, 25-Jun-2020 16:16:10
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

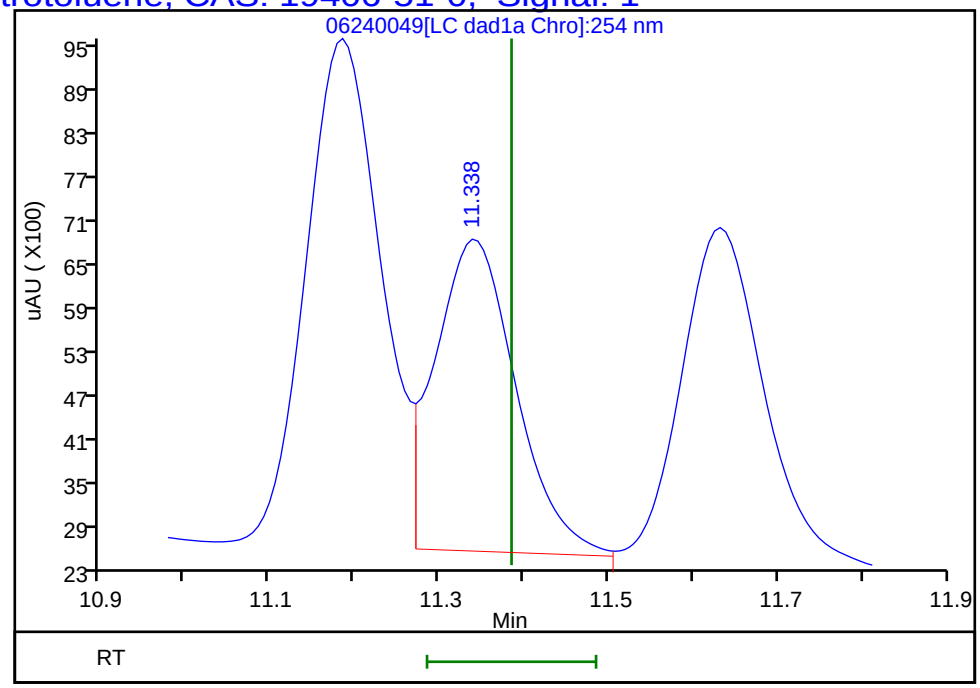
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240049.d				
Injection Date:	25-Jun-2020 08:22:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	49	Worklist Smp#:	49
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

17 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0, Signal: 1

RT: 11.34
Response: 27807
Amount: 0.162416



Reviewer: zhangji, 25-Jun-2020 16:16:10
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

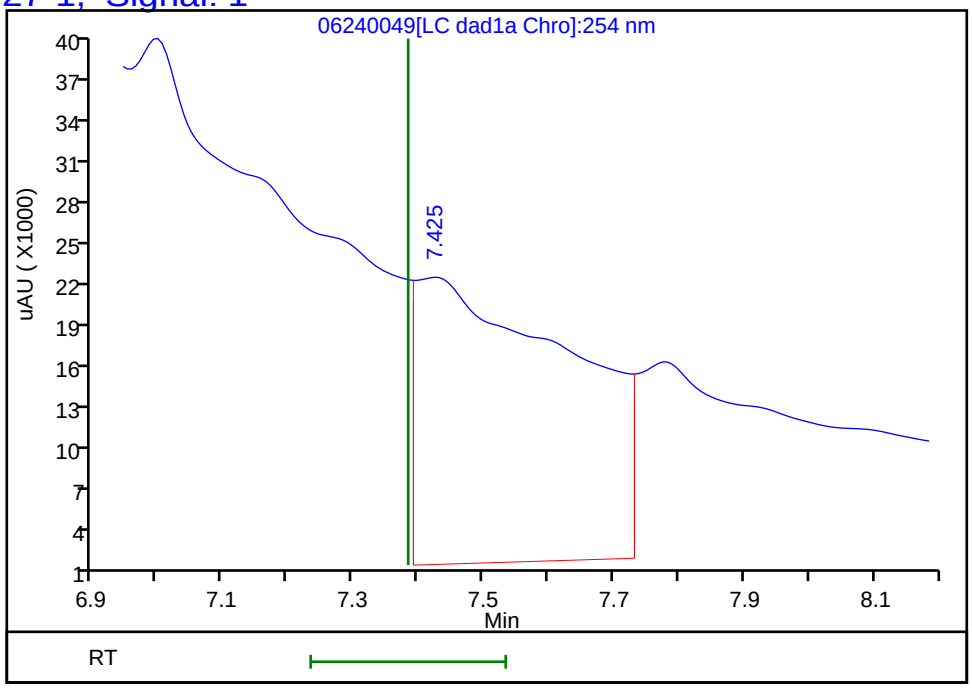
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240049.d

Injection Date:	25-Jun-2020 08:22:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	49	Worklist Smp#:	49
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.43
Response: 336880
Amount: 2.124833



Reviewer: zhangji, 25-Jun-2020 16:16:10
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

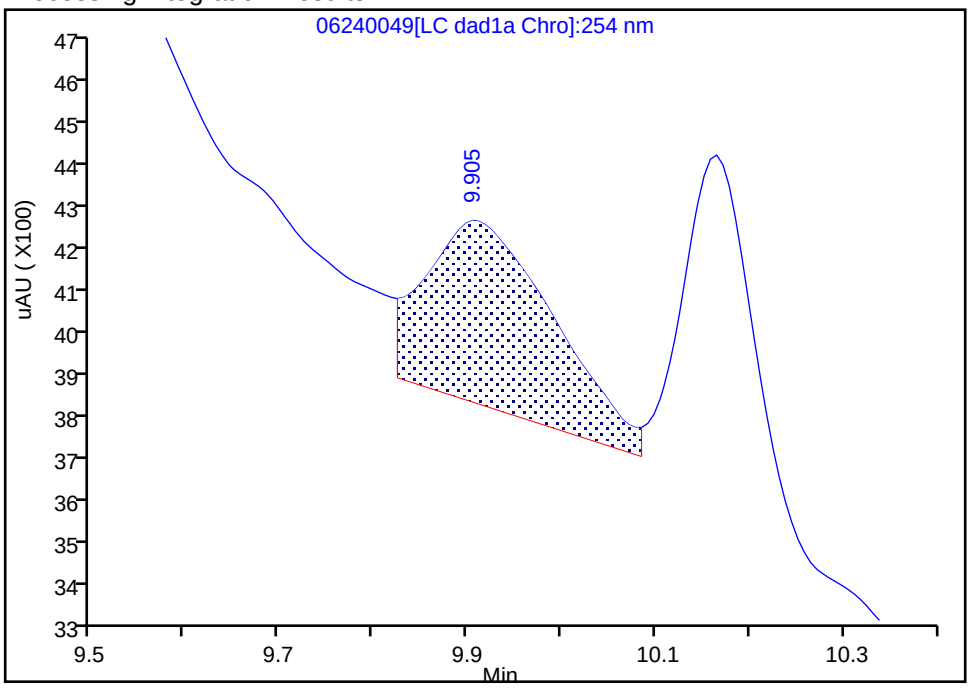
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240049.d				
Injection Date:	25-Jun-2020 08:22:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	49	Worklist Smp#:	49
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

12 Nitrobenzene, CAS: 98-95-3

Signal: 1

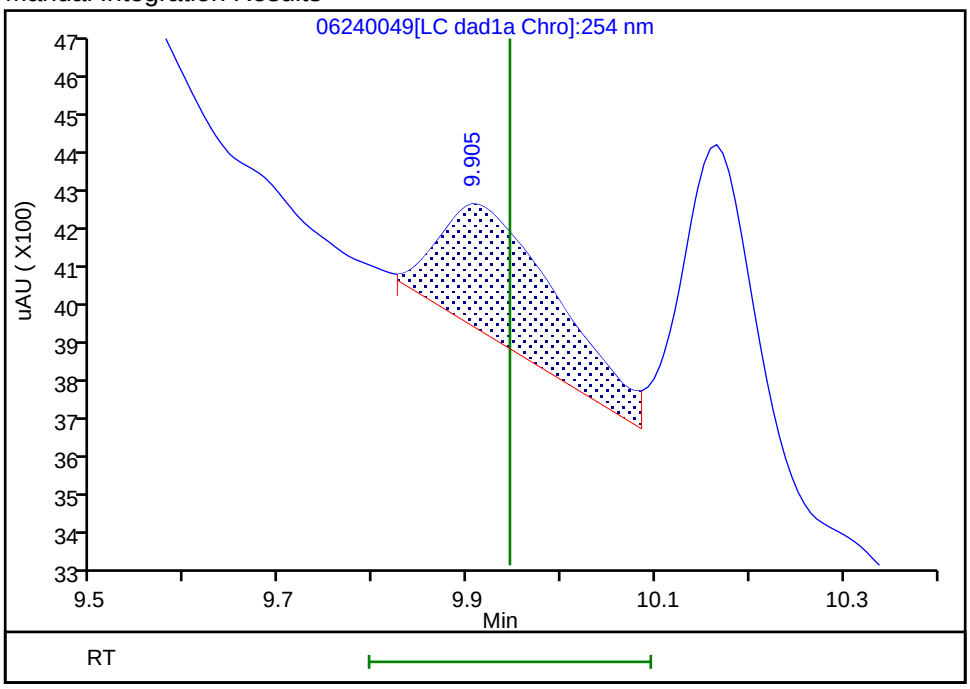
Processing Integration Results

RT: 9.91
Area: 3811
Amount: 0.019017
Amount Units: ug/mL



Manual Integration Results

RT: 9.91
Area: 2797
Amount: 0.013957
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:16:08

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

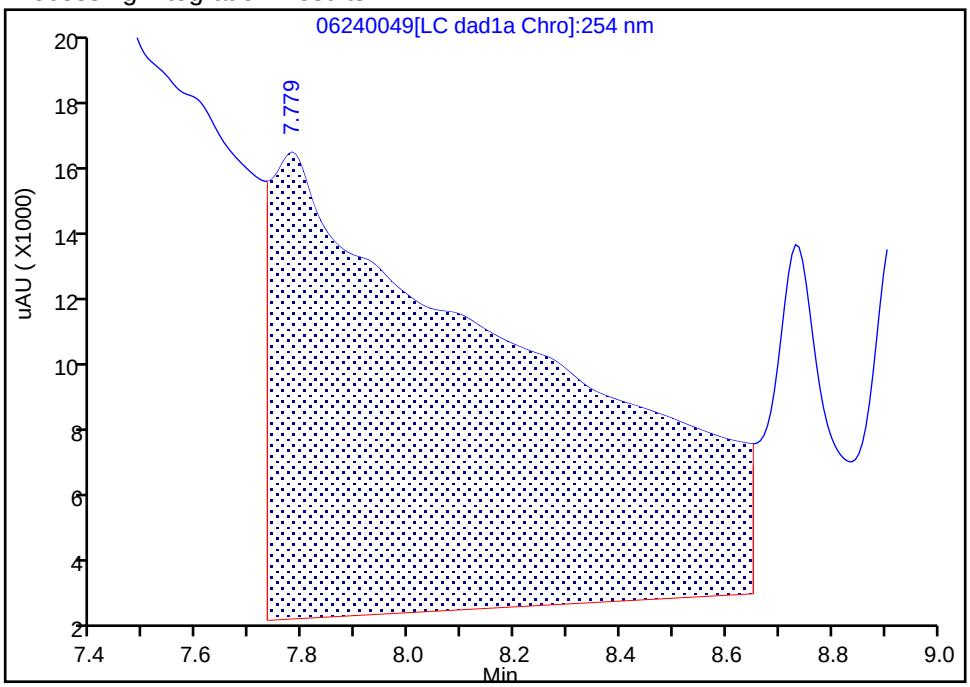
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240049.d				
Injection Date:	25-Jun-2020 08:22:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	49	Worklist Smp#:	49
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

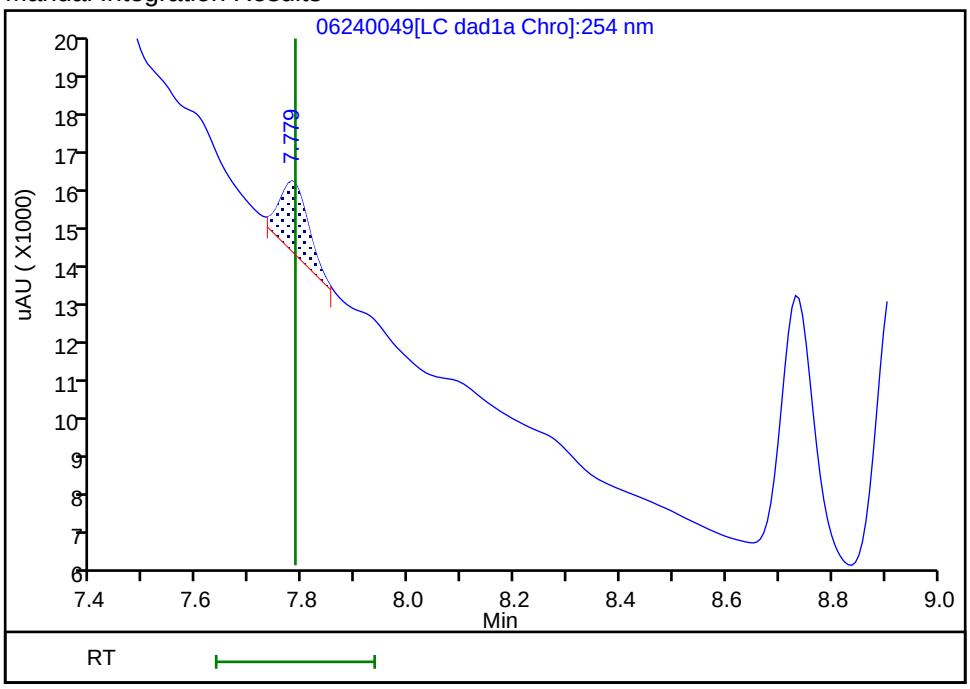
RT: 7.78
Area: 452003
Amount: 3.876092
Amount Units: ug/mL

Processing Integration Results



RT: 7.78
Area: 6554
Amount: 0.056203
Amount Units: ug/mL

Manual Integration Results



Reviewer: zhangji, 25-Jun-2020 16:15:35
Audit Action: Split an Integrated Peak Audit Reason: Baseline

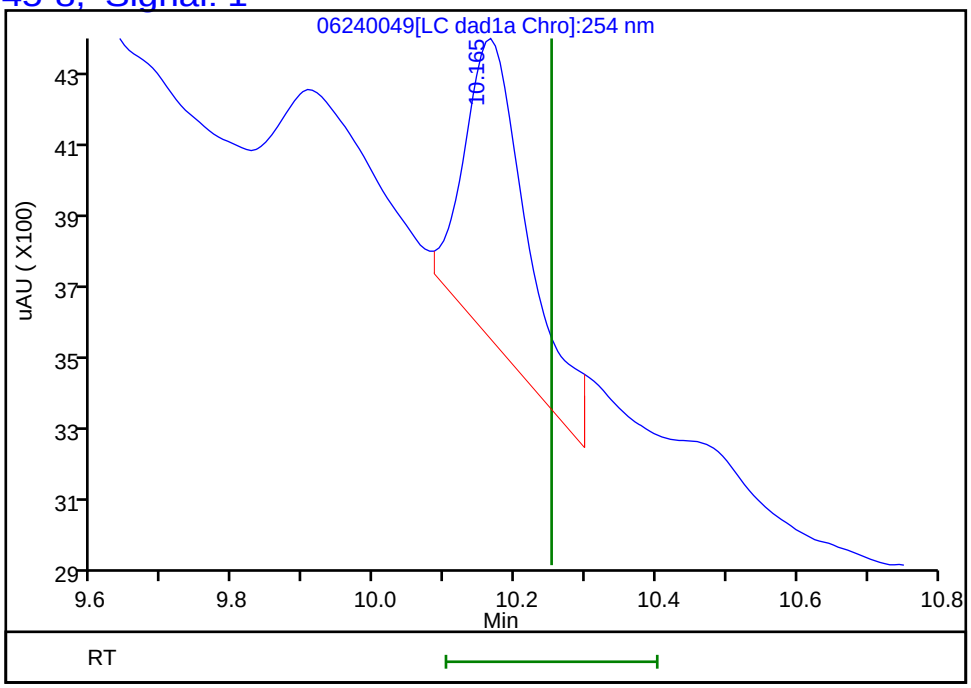
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240049.d				
Injection Date:	25-Jun-2020 08:22:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	49	Worklist Smp#:	49
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.17
Response: 5232
Amount: 0.029554



Reviewer: zhangji, 25-Jun-2020 16:16:10
Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: PZ020-20A Lab Sample ID: 280-137736-10

Matrix: Water Lab File ID: 06260034.D

Analysis Method: 8330A Date Collected: 06/15/2020 15:40

Extraction Method: 3535 Date Extracted: 06/19/2020 15:47

Sample wt/vol: 480.5(mL) Date Analyzed: 06/27/2020 15:36

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

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

Analysis Batch No.: 500327 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
98-95-3	Nitrobenzene	0.21	U	0.22	0.21	0.095

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	96	*M*	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260034.D
Lims ID: 280-137736-A-10-A
Client ID: PZ020-20A
Sample Type: Client
Inject. Date: 27-Jun-2020 15:36:02 ALS Bottle#: 34 Worklist Smp#: 34
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-10-
Misc. Info.: 280-0092796-034
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 01-Jul-2020 16:55:51 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1062

First Level Reviewer: zhangji Date: 27-Jun-2020 16:14:27

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1	7.128	7.154	-0.026	7638	0.0131	M
7 MNX	1		7.919			ND	
8 RDX	1	9.341	9.367	-0.026	9800	0.0401	M
9 Nitrobenzene	1		12.274			ND	
$ 10 1,2-Dinitrobenzene	1	13.261	13.281	-0.020	54857	0.1912	M
12 1,3-Dinitrobenzene	1		15.814			ND	
14 o-Nitrotoluene	1		16.754			ND	U
15 p-Nitrotoluene	1		17.034			ND	
16 4-Amino-2,6-dinitrotoluene	1	17.454	17.474	-0.020	58241	0.1687	
17 m-Nitrotoluene	1		17.967			ND	
18 2-Amino-4,6-dinitrotoluene	1	18.388	18.407	-0.019	71995	0.1548	M
19 1,3,5-Trinitrobenzene	1	19.134	19.147	-0.013	64601	0.1367	M
20 2,6-Dinitrotoluene	1		20.074			ND	
21 2,4-Dinitrotoluene	1		20.587			ND	U
22 Tetryl	1		23.887			ND	
23 2,4,6-Trinitrotoluene	1	24.888	24.907	-0.019	76126	0.1817	M

QC Flag Legend

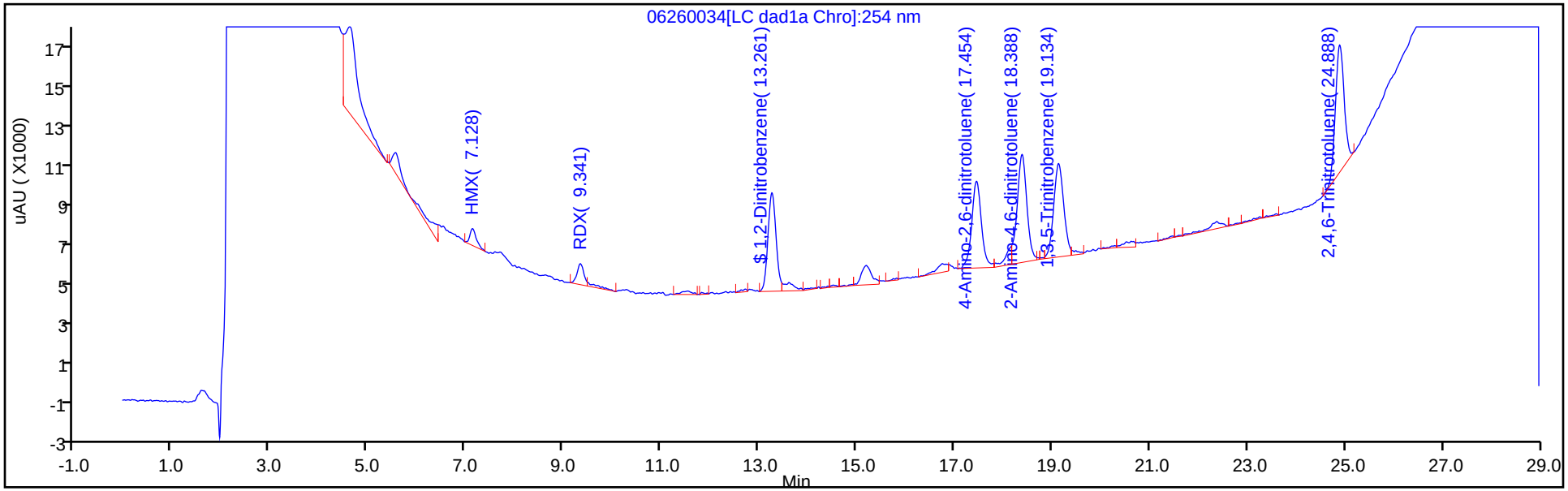
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 01-Jul-2020 16:56:00 Chrom Revision: 2.3 21-Jun-2020 18:30:46

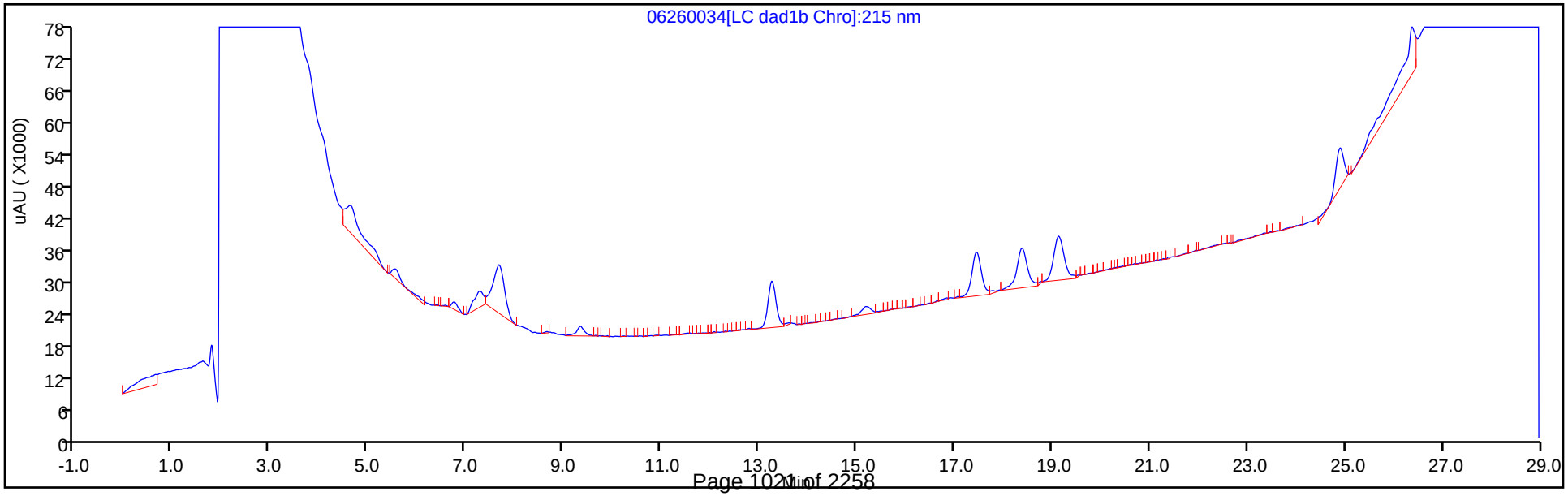
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260034.d				
Injection Date:	27-Jun-2020 15:36:02	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137736-A-10-A	Lab Sample ID:	280-137736-10	Worklist Smp#:	34
Client ID:	PZ020-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260034.D				
Lims ID:	280-137736-A-10-A				
Client ID:	PZ020-20A				
Sample Type:	Client				
Inject. Date:	27-Jun-2020 15:36:02	ALS Bottle#:	34	Worklist Smp#:	34
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-10-				
Misc. Info.:	280-0092796-034				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	01-Jul-2020 16:55:51	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1062				
First Level Reviewer: zhangji		Date:	27-Jun-2020 16:14:27		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1912	95.62

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

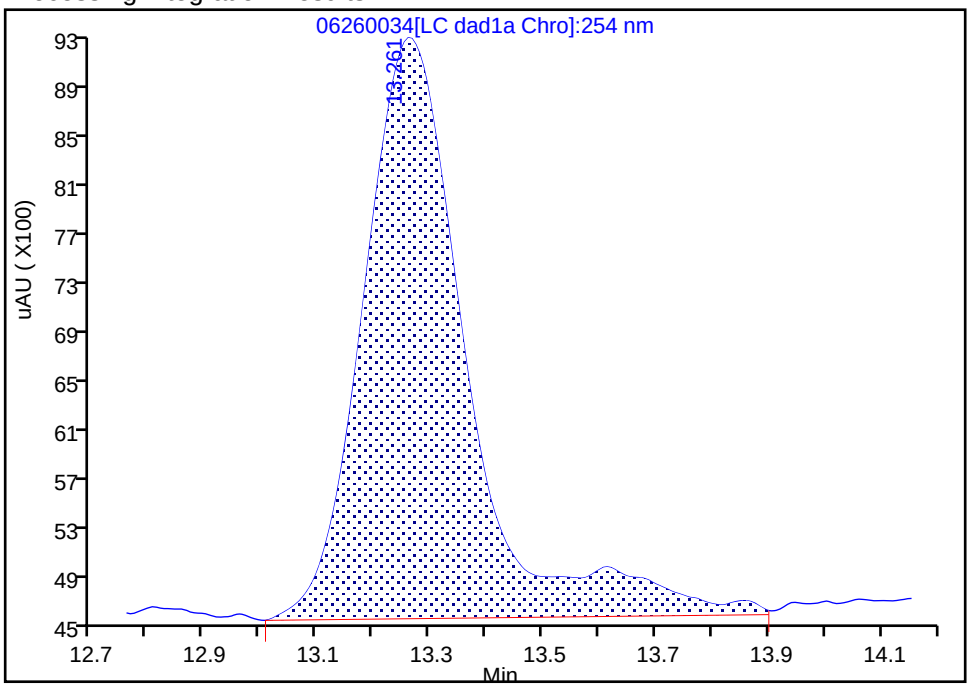
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260034.d				
Injection Date:	27-Jun-2020 15:36:02	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	34	Worklist Smp#:	34
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

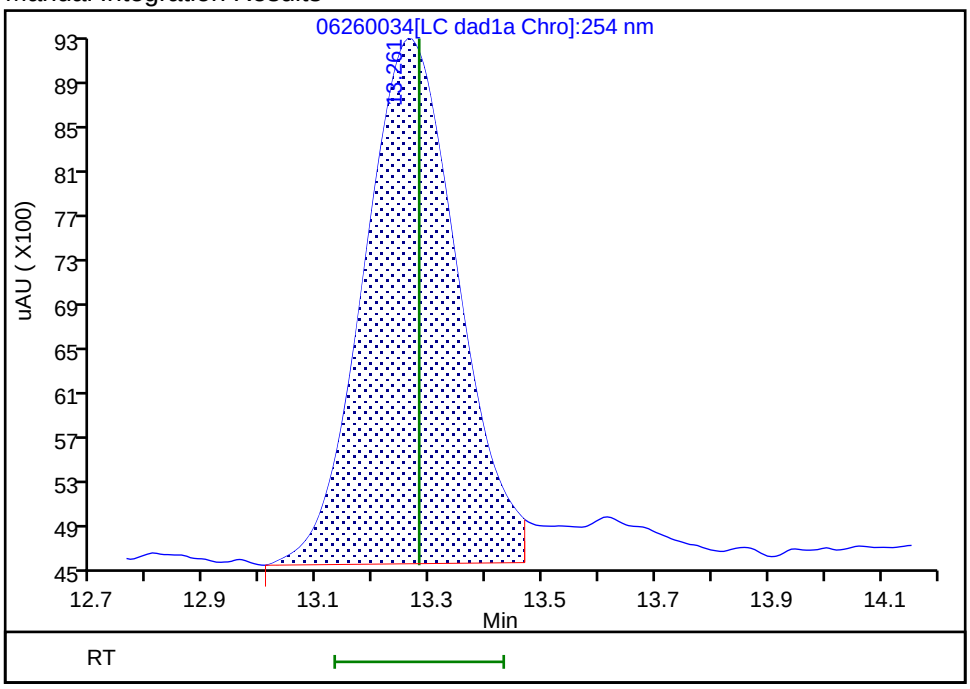
Processing Integration Results

RT: 13.26
Area: 61112
Amount: 0.213806
Amount Units: ug/ml



Manual Integration Results

RT: 13.26
Area: 54857
Amount: 0.191243
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 16:13:58

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

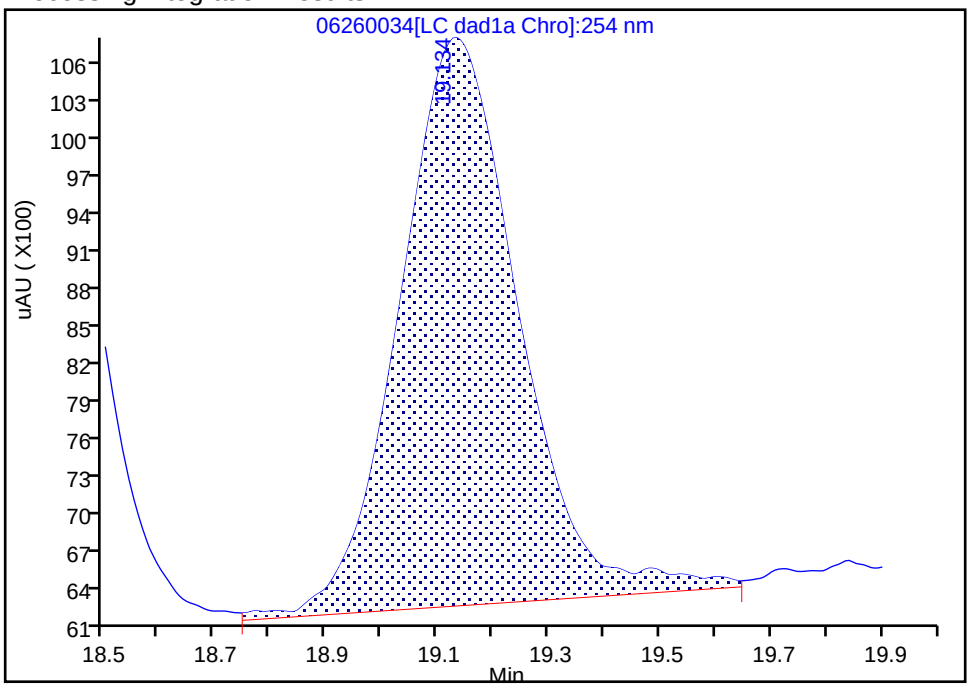
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260034.d				
Injection Date:	27-Jun-2020 15:36:02	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	34	Worklist Smp#:	34
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

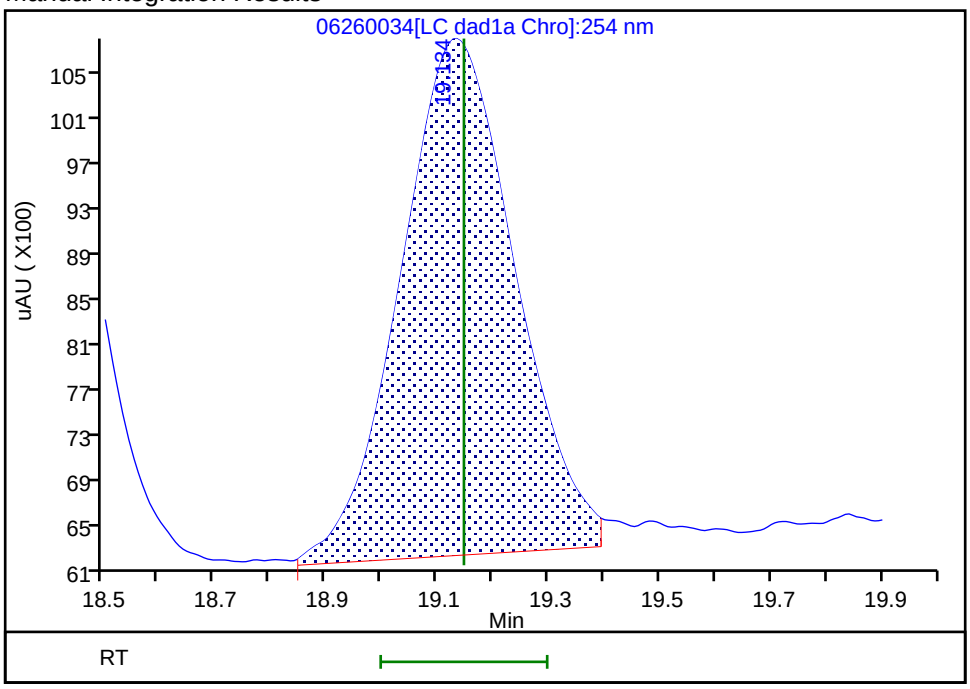
Processing Integration Results

RT: 19.13
Area: 67050
Amount: 0.141920
Amount Units: ug/ml



Manual Integration Results

RT: 19.13
Area: 64601
Amount: 0.136736
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 16:14:13

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

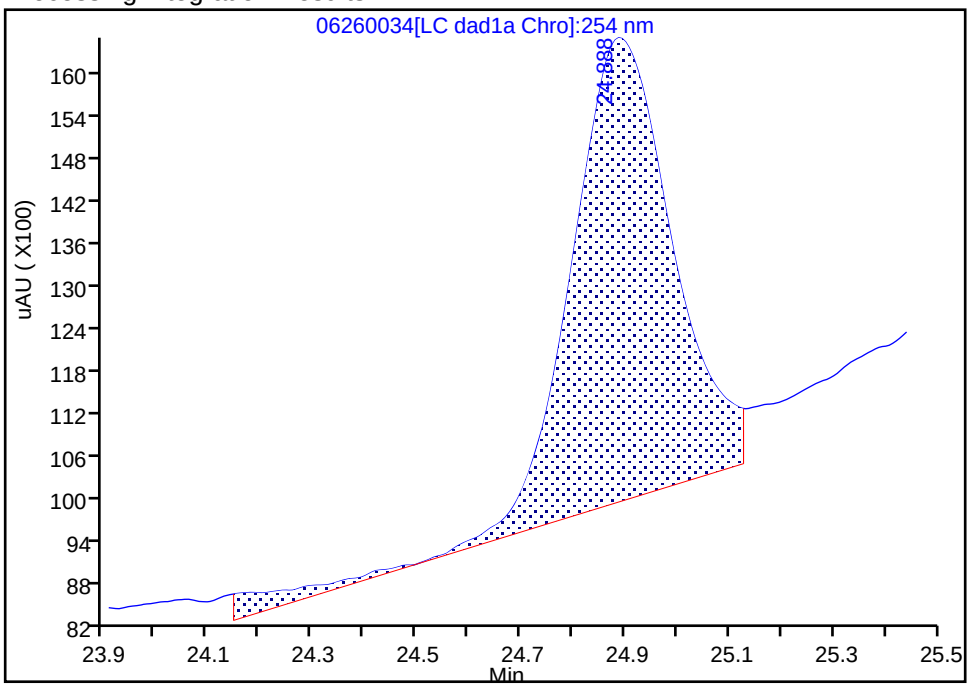
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260034.d				
Injection Date:	27-Jun-2020 15:36:02	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	34	Worklist Smp#:	34
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

23 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

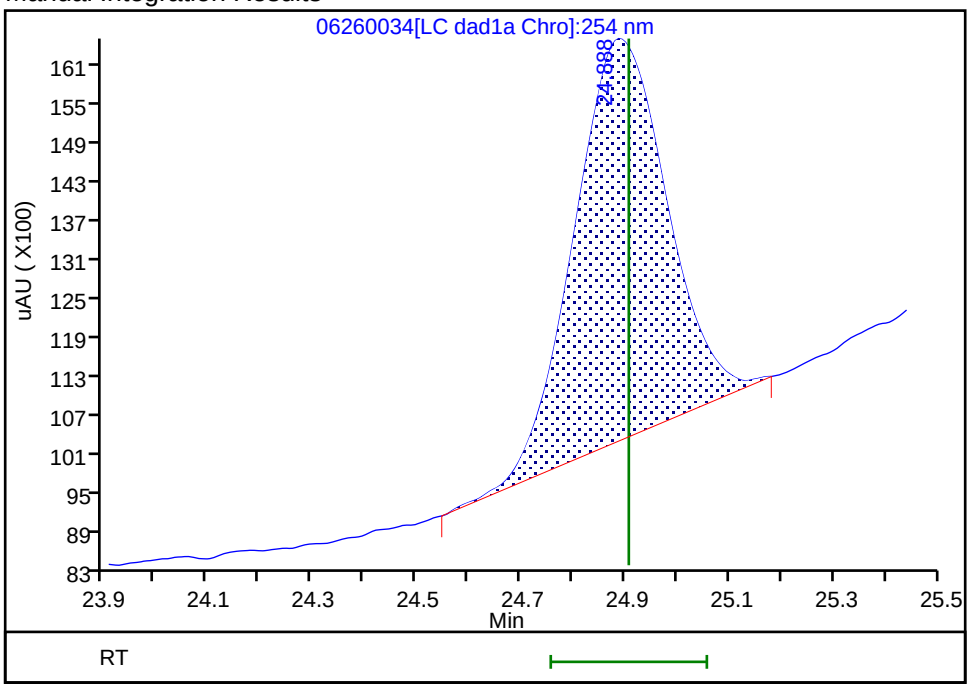
Processing Integration Results

RT: 24.89
Area: 90738
Amount: 0.218072
Amount Units: ug/ml



Manual Integration Results

RT: 24.89
Area: 76126
Amount: 0.181689
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 16:14:22

Audit Action: Manually Integrated Audit Reason: Baseline

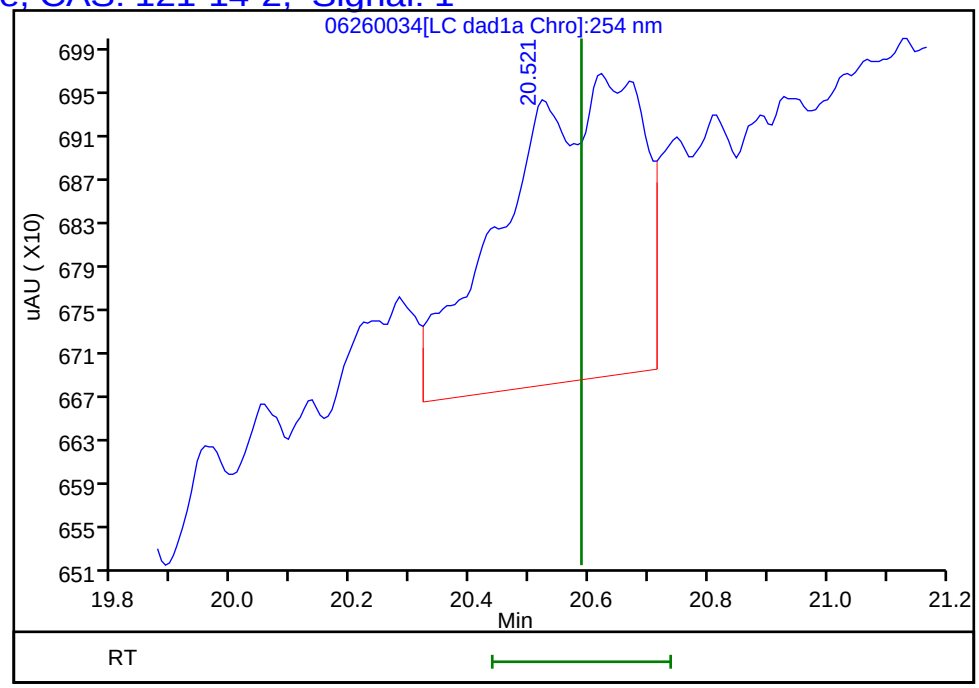
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260034.d				
Injection Date:	27-Jun-2020 15:36:02	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	34	Worklist Smp#:	34
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2, Signal: 1

RT: 20.52
Response: 4418
Amount: 0.006902



Reviewer: zhangji, 27-Jun-2020 16:14:27
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

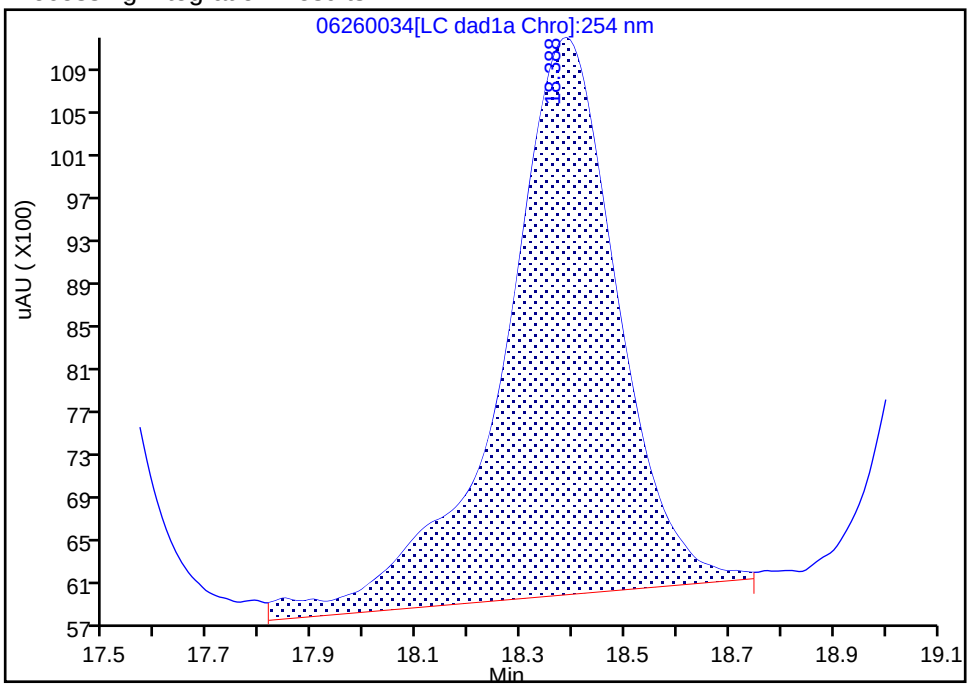
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260034.d				
Injection Date:	27-Jun-2020 15:36:02	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	34	Worklist Smp#:	34
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

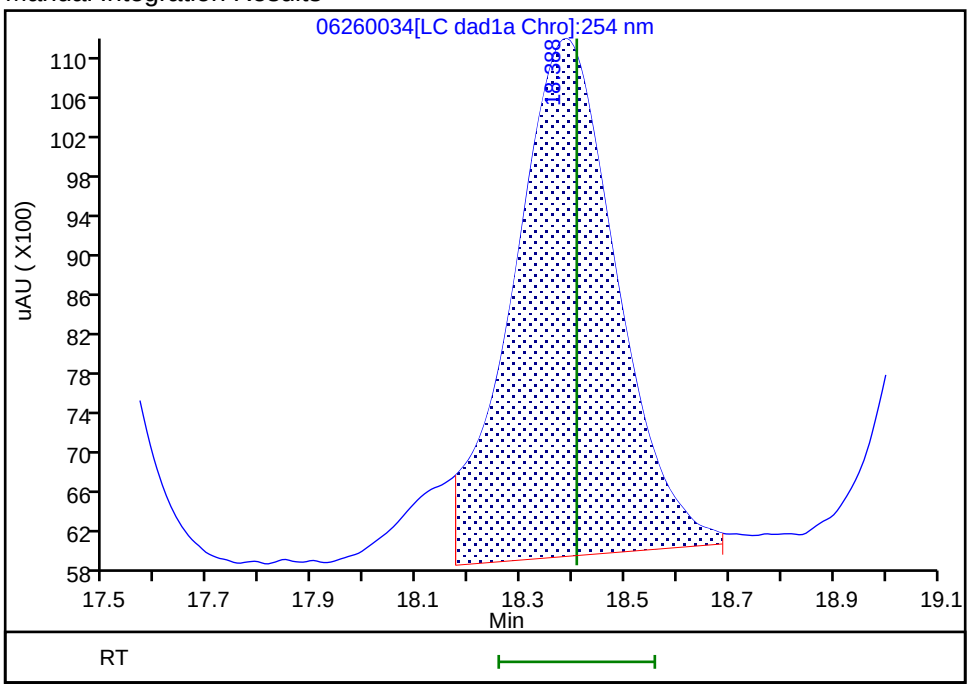
Processing Integration Results

RT: 18.39
Area: 80239
Amount: 0.172479
Amount Units: ug/ml



Manual Integration Results

RT: 18.39
Area: 71995
Amount: 0.154758
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 16:14:07

Audit Action: Split an Integrated Peak Audit Reason: Baseline

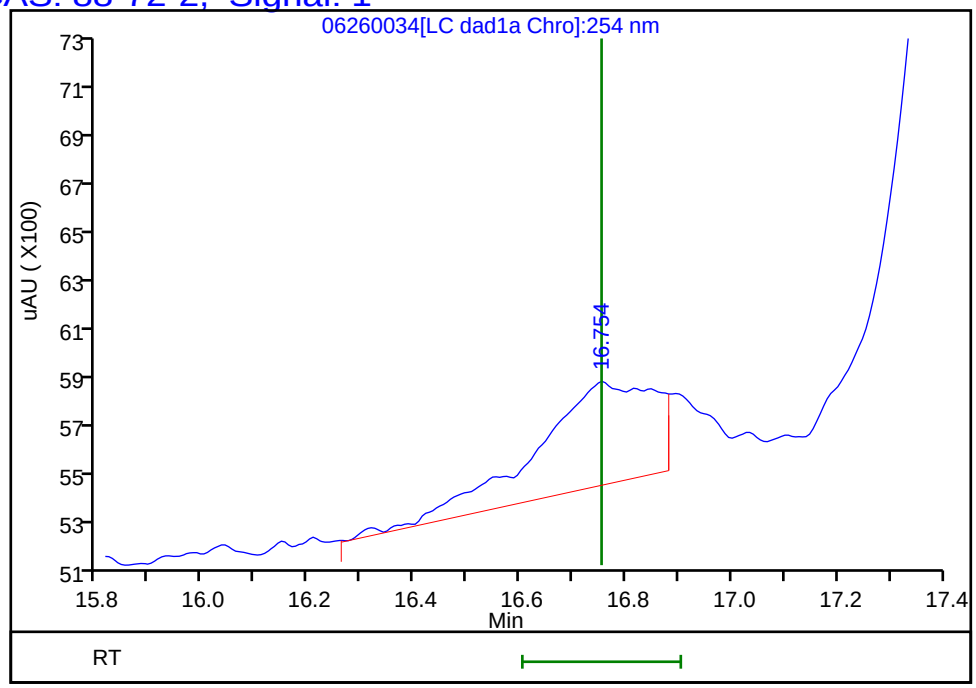
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260034.d				
Injection Date:	27-Jun-2020 15:36:02	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	34	Worklist Smp#:	34
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.75
Response: 6472
Amount: 0.023710



Reviewer: zhangji, 27-Jun-2020 16:14:27
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

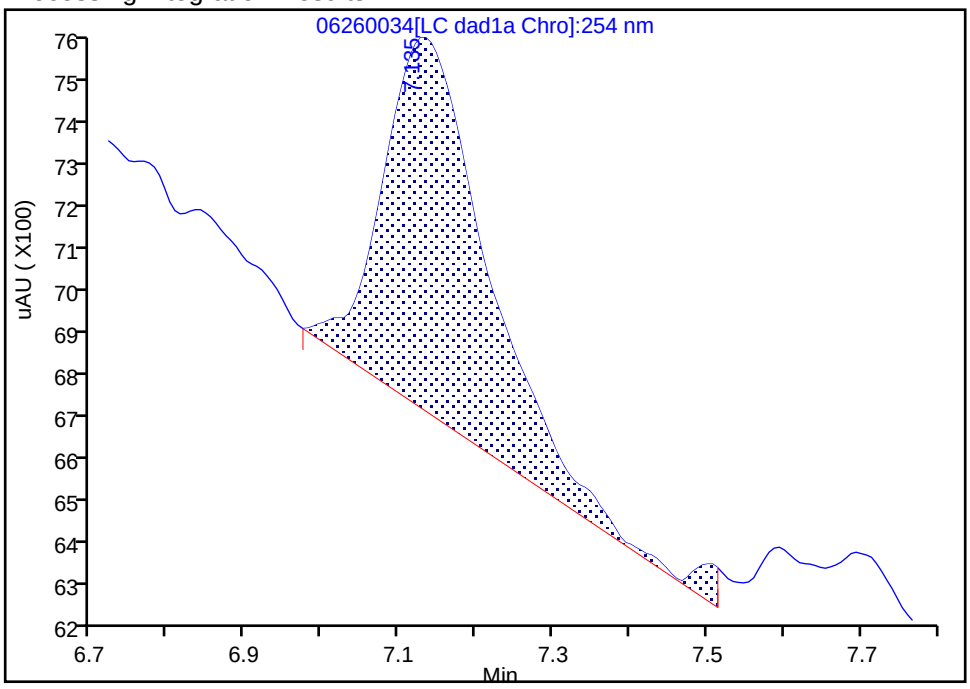
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260034.d				
Injection Date:	27-Jun-2020 15:36:02	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	34	Worklist Smp#:	34
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

6 HMX, CAS: 2691-41-0

Signal: 1

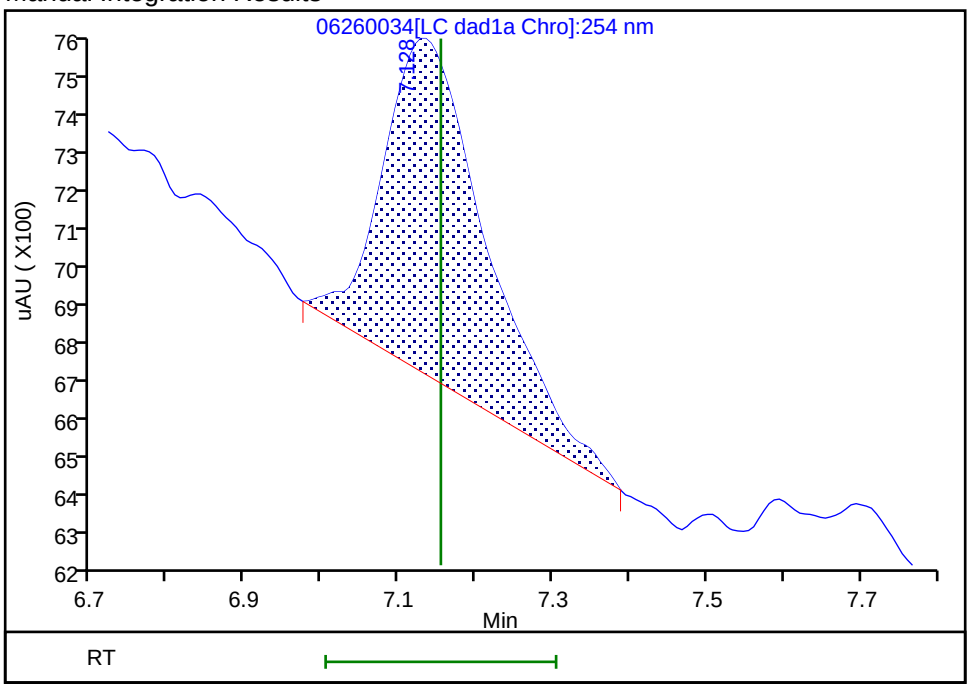
Processing Integration Results

RT: 7.13
Area: 7985
Amount: 0.015033
Amount Units: ug/ml



Manual Integration Results

RT: 7.13
Area: 7638
Amount: 0.013073
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 16:13:45

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

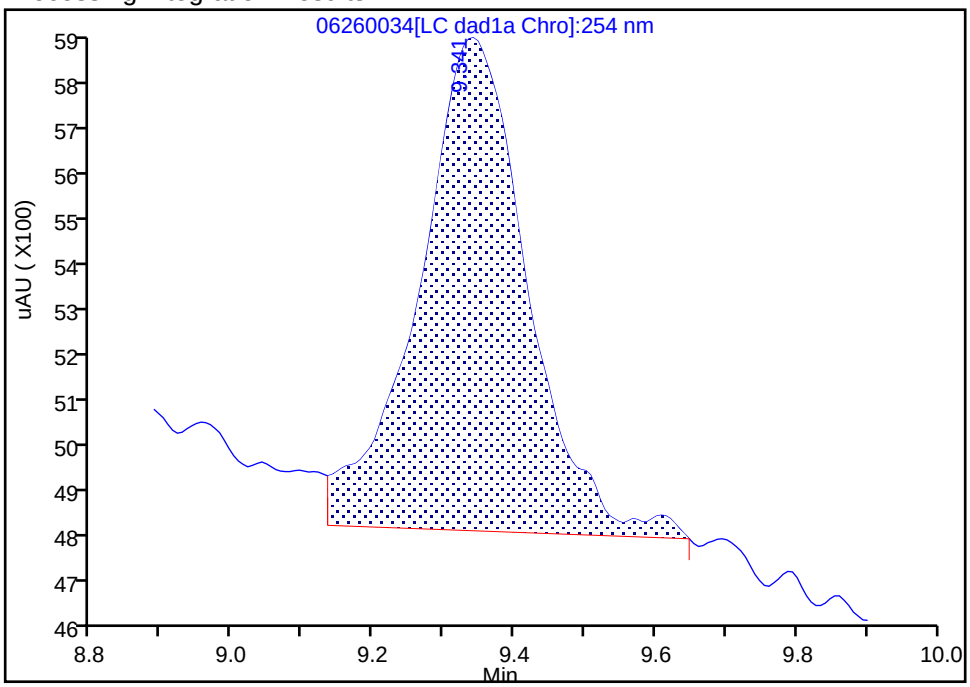
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260034.d				
Injection Date:	27-Jun-2020 15:36:02	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	34	Worklist Smp#:	34
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

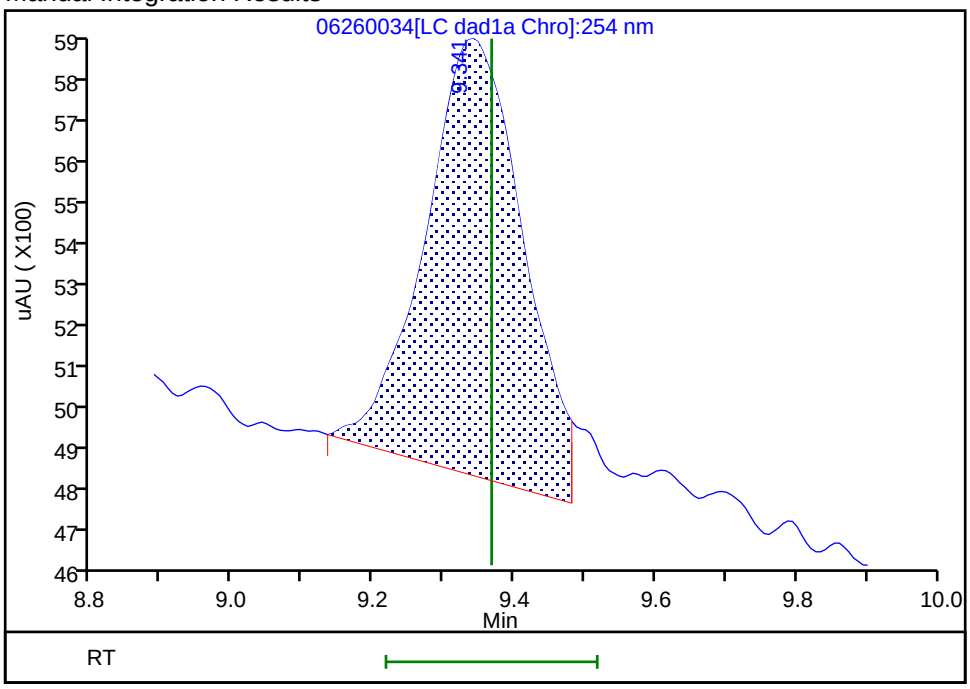
Processing Integration Results

RT: 9.34
Area: 11067
Amount: 0.045290
Amount Units: ug/ml



Manual Integration Results

RT: 9.34
Area: 9800
Amount: 0.040105
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 16:13:53

Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: PZ020-20A RE Lab Sample ID: 280-137736-10 RE

Matrix: Water Lab File ID: 06300029.D

Analysis Method: 8330A Date Collected: 06/15/2020 15:40

Extraction Method: 3535 Date Extracted: 06/30/2020 12:07

Sample wt/vol: 464.8(mL) Date Analyzed: 07/01/2020 02:46

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 500691 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	*1,3,5-Trinitrobenzene*	*1.5*	*M H*	*0.23*	0.22	*0.090*
99-65-0	*1,3-Dinitrobenzene*	*0.11*	*U M H*	*0.12*	0.11	*0.040*
118-96-7	*2,4,6-Trinitrotoluene*	*2.3*	*M H*	*0.12*	0.11	*0.048*
121-14-2	*2,4-Dinitrotoluene*	*0.086*	*U M H*	*0.11*	0.086	*0.029*
606-20-2	*2,6-Dinitrotoluene*	*0.086*	*U H Q*	*0.11*	0.086	*0.043*
35572-78-2	*2-Amino-4,6-dinitrotoluene*	*1.7*	*M H*	*0.12*	0.11	*0.055*
88-72-2	*2-Nitrotoluene*	*0.22*	*U M H*	*0.23*	0.22	*0.092*
99-08-1	*3-Nitrotoluene*	*0.43*	*U M H*	*0.43*	0.43	*0.21*
19406-51-0	*4-Amino-2,6-dinitrotoluene*	*1.8*	*M H*	*0.16*	0.13	*0.062*
99-99-0	*4-Nitrotoluene*	*0.43*	*U H*	*0.44*	0.43	*0.11*
2691-41-0	*HMX*	*0.22*	*U H*	*0.23*	0.22	*0.094*
5755-27-1	*MNX*	*0.43*	*U M H*	*2.2*	0.43	*0.17*
121-82-4	*RDX*	*0.51*	*M H*	*0.23*	0.22	*0.055*
479-45-8	*Tetryl*	*0.11*	*U M H*	*0.12*	0.11	*0.034*

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	103	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300029.D				
Lims ID:	280-137736-B-10-A				
Client ID:	PZ020-20A				
Sample Type:	Client				
Inject. Date:	01-Jul-2020 02:46:03	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-B-10-				
Misc. Info.:	280-0092909-029				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	01-Jul-2020 15:06:12	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1062				
First Level Reviewer: zhangji		Date:	01-Jul-2020 14:22:44		

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 HMX	1		6.710			ND	
	6 MNX	1		7.386			ND	U
	7 RDX	1	7.800	7.783	0.017	5566	0.0477	M
$	9 1,2-Dinitrobenzene	1	8.773	8.757	0.016	28540	0.2065	M
	10 1,3,5-Trinitrobenzene	1	8.946	8.930	0.016	32518	0.1412	M
	11 1,3-Dinitrobenzene	1		9.583			ND	U
	12 Nitrobenzene	1	9.980	9.963	0.017	3316	0.0165	
	14 Tetryl	1		10.283			ND	U
	16 2,4,6-Trinitrotoluene	1	11.286	11.250	0.036	42852	0.2100	M
	17 4-Amino-2,6-dinitrotoluene	1	11.466	11.423	0.043	28898	0.1685	M
	18 2-Amino-4,6-dinitrotoluene	1	11.760	11.710	0.050	32021	0.1579	M
	19 2,6-Dinitrotoluene	1		11.850			ND	
	20 2,4-Dinitrotoluene	1		12.050			ND	MU
	21 o-Nitrotoluene	1		12.883			ND	U
	22 p-Nitrotoluene	1		13.323			ND	
	23 m-Nitrotoluene	1		13.923			ND	U

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

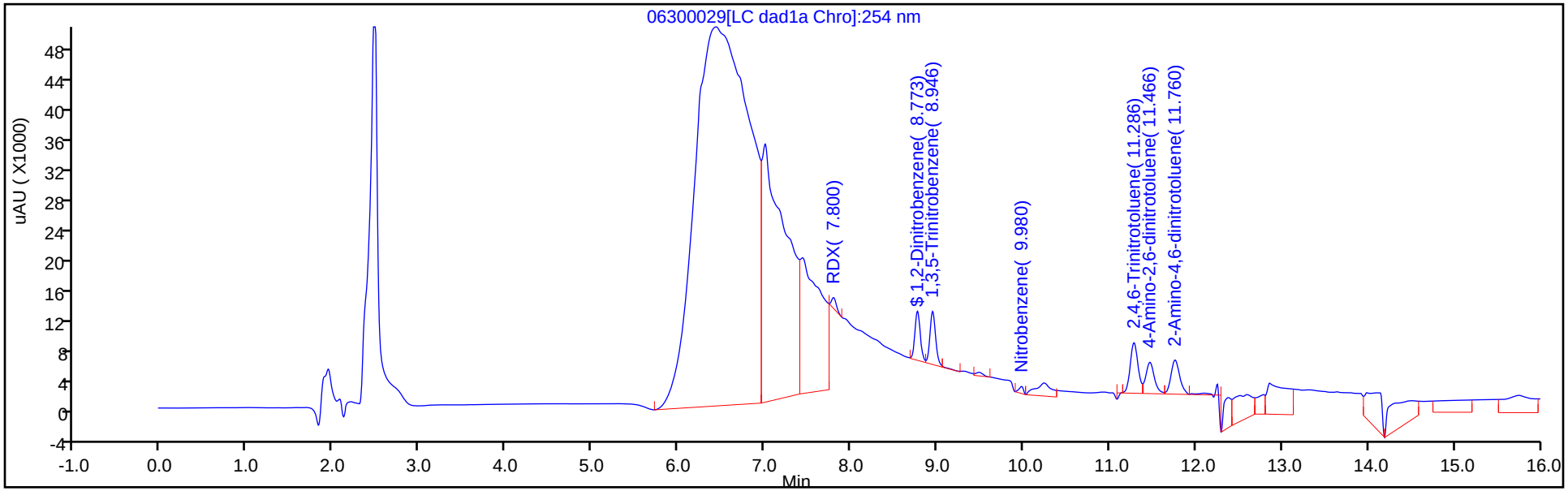
Report Date: 01-Jul-2020 15:06:15 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

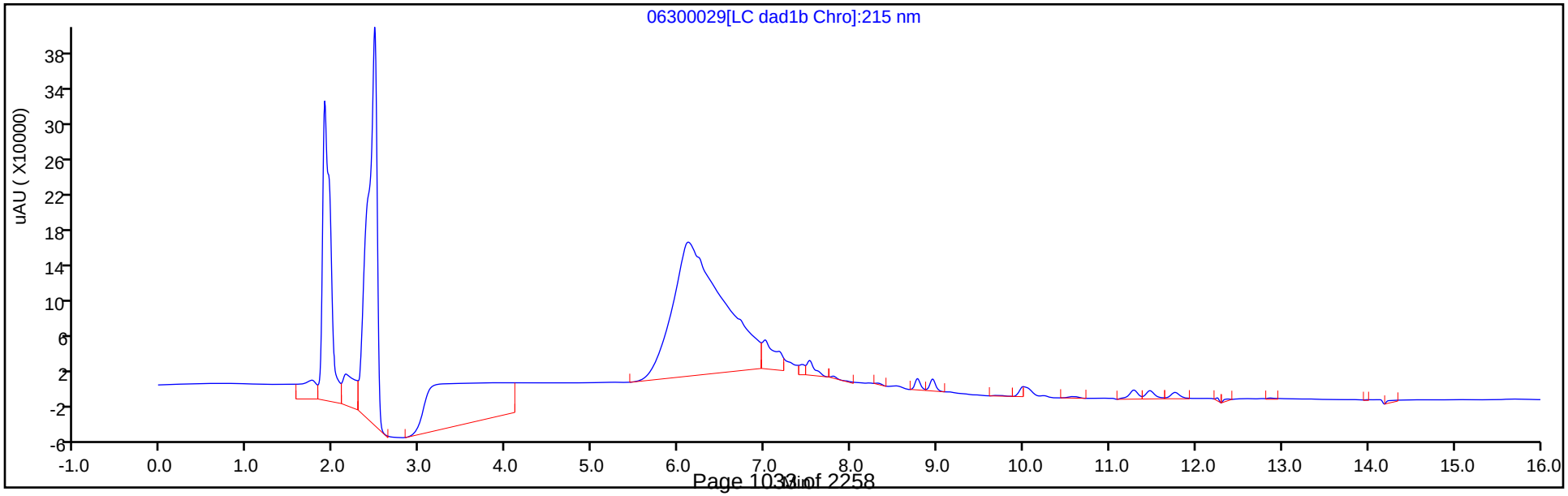
Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300029.d

Injection Date:	01-Jul-2020 02:46:03	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-B-10-A	Lab Sample ID:	280-137736-10	Worklist Smp#:	29
Client ID:	PZ020-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300029.D				
Lims ID:	280-137736-B-10-A				
Client ID:	PZ020-20A				
Sample Type:	Client				
Inject. Date:	01-Jul-2020 02:46:03	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-B-10-				
Misc. Info.:	280-0092909-029				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	01-Jul-2020 15:06:12	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1062				

First Level Reviewer: zhangji Date: 01-Jul-2020 14:22:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.2065	103.25

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

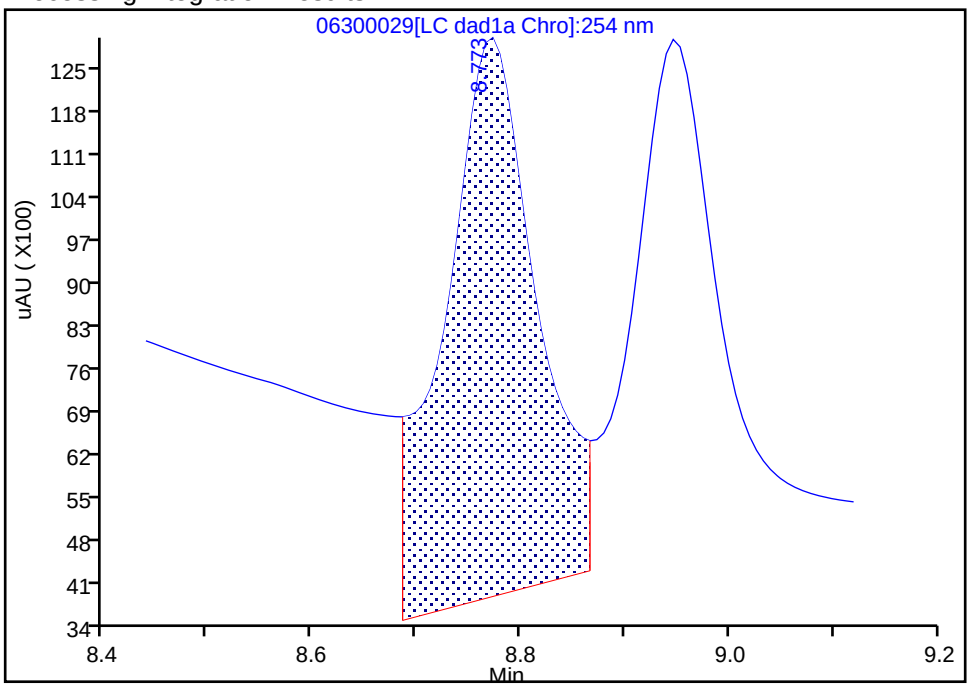
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300029.d				
Injection Date:	01-Jul-2020 02:46:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

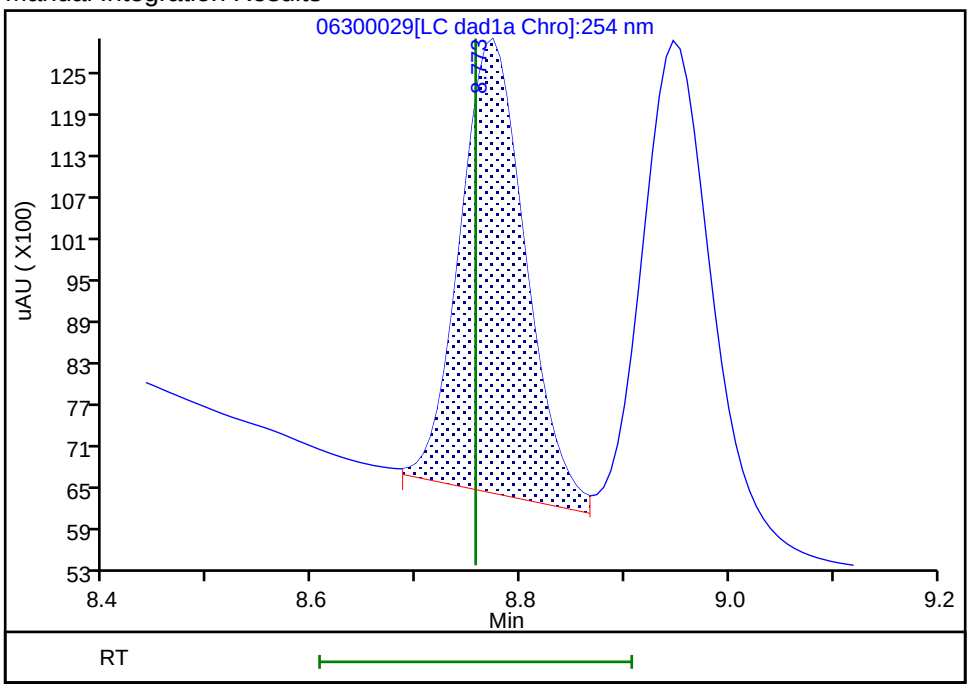
Processing Integration Results

RT: 8.77
Area: 56113
Amount: 0.405992
Amount Units: ug/mL



Manual Integration Results

RT: 8.77
Area: 28540
Amount: 0.206494
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:22:12
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

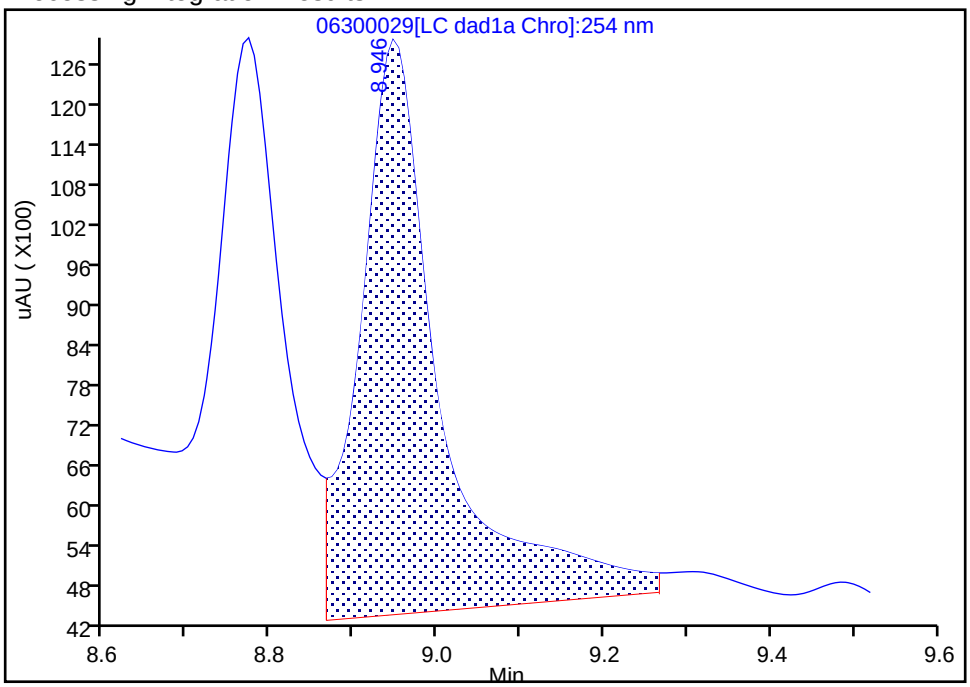
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300029.d				
Injection Date:	01-Jul-2020 02:46:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

10 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

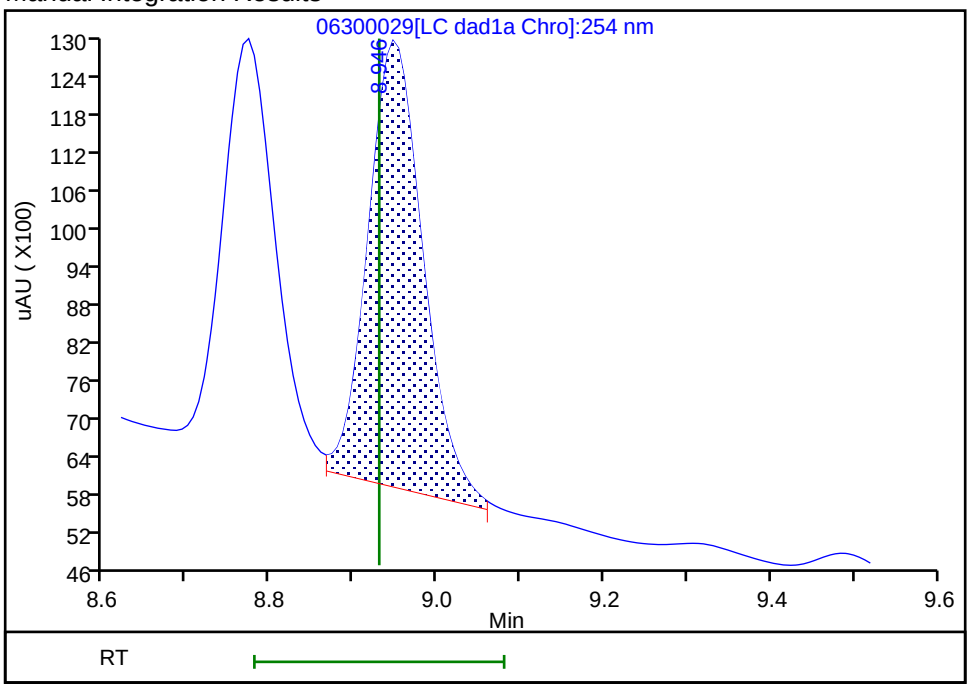
Processing Integration Results

RT: 8.95
Area: 57871
Amount: 0.251276
Amount Units: ug/mL



Manual Integration Results

RT: 8.95
Area: 32518
Amount: 0.141193
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:22:14
Audit Action: Split an Integrated Peak Audit Reason: Baseline

User Disabled Compound Report

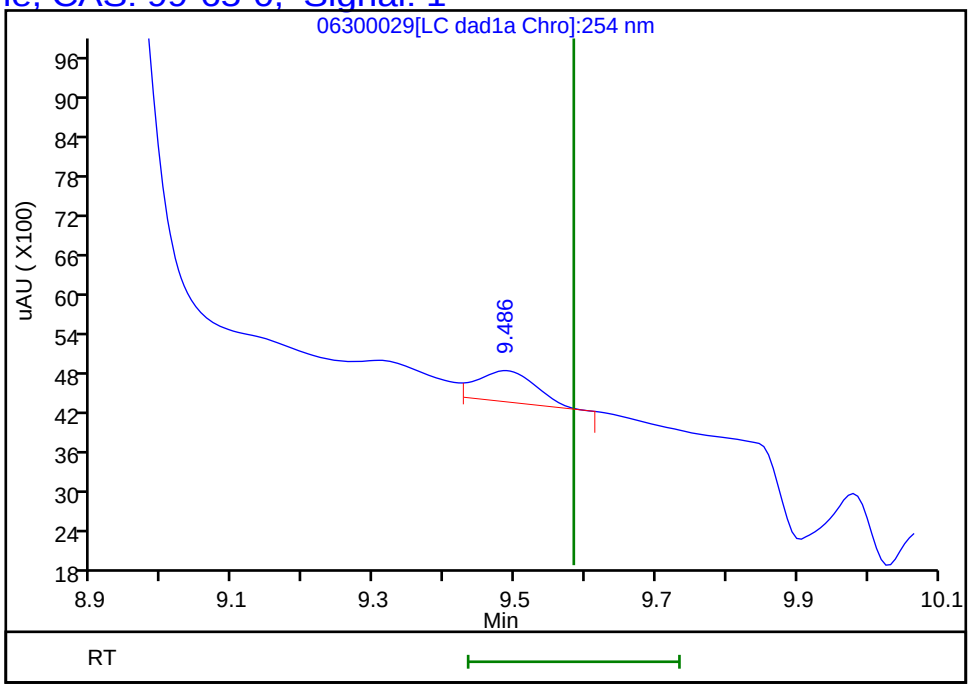
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300029.d

Injection Date:	01-Jul-2020 02:46:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

11 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.49
Response: 2703
Amount: 0.008814



Reviewer: zhangji, 01-Jul-2020 14:22:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

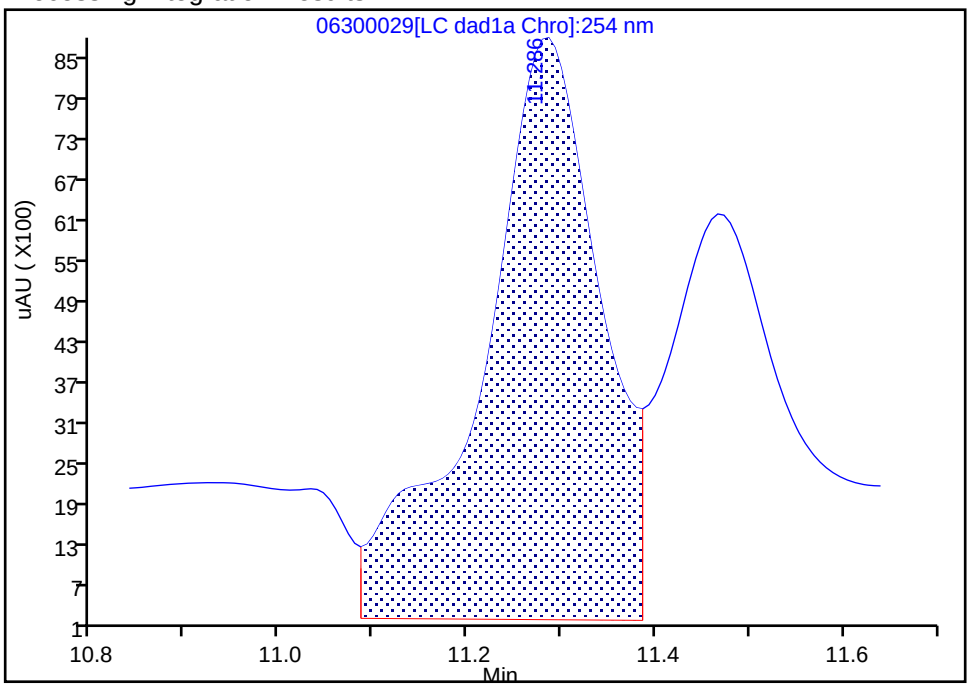
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300029.d				
Injection Date:	01-Jul-2020 02:46:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

16 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

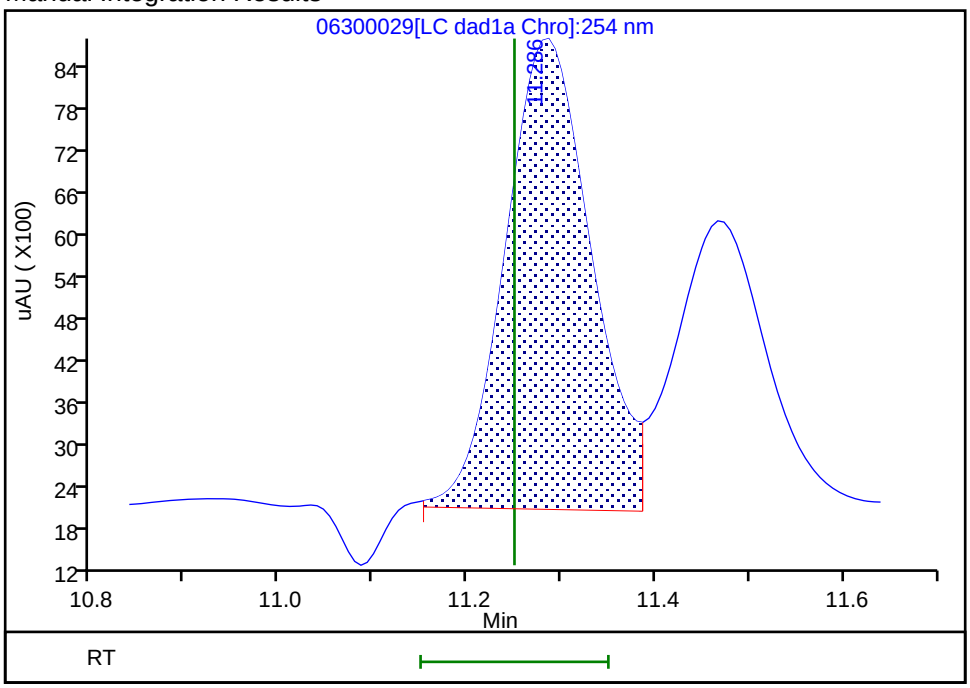
Processing Integration Results

RT: 11.29
Area: 75444
Amount: 0.369767
Amount Units: ug/mL



Manual Integration Results

RT: 11.29
Area: 42852
Amount: 0.210027
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:22:33

Audit Action: Split an Integrated Peak Audit Reason: Baseline

User Disabled Compound Report

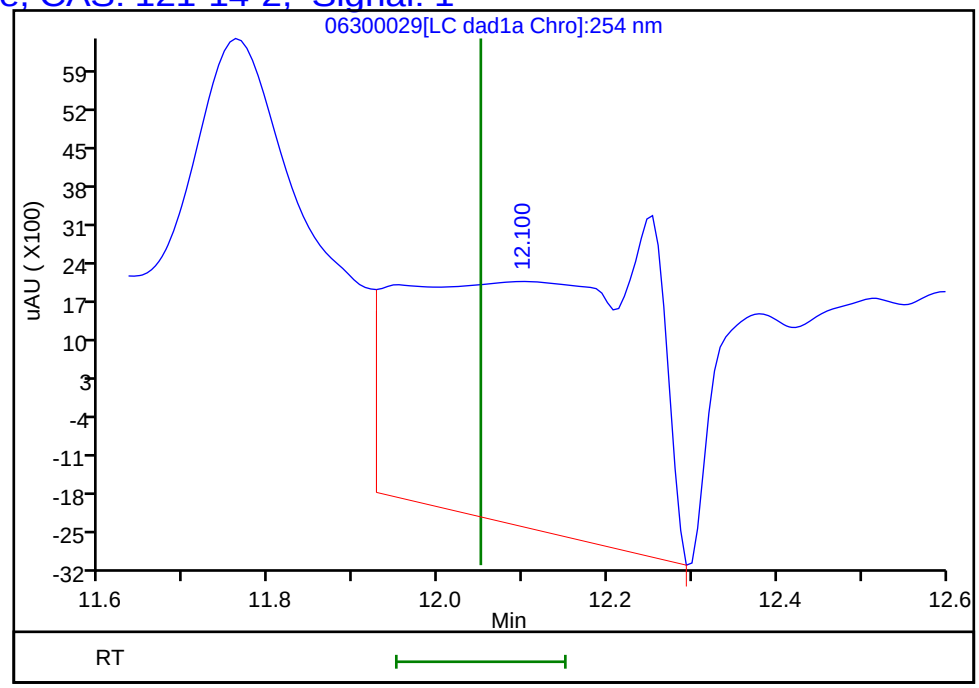
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300029.d

Injection Date:	01-Jul-2020 02:46:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

20 2,4-Dinitrotoluene, CAS: 121-14-2, Signal: 1

RT: 12.10
Response: 93436
Amount: 0.307776



Reviewer: zhangji, 01-Jul-2020 14:22:44

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

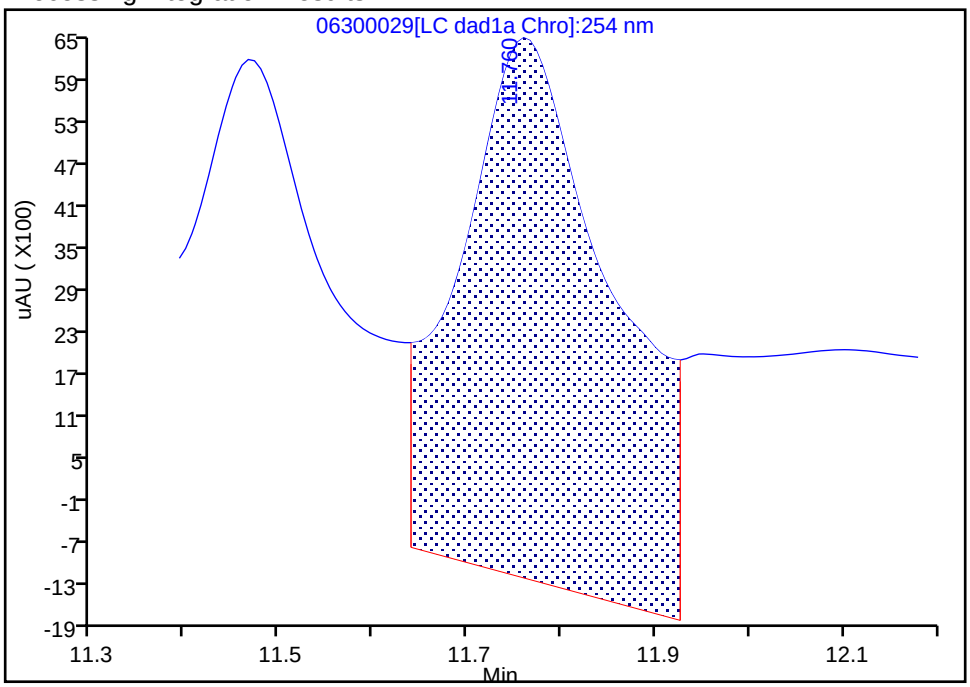
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300029.d				
Injection Date:	01-Jul-2020 02:46:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

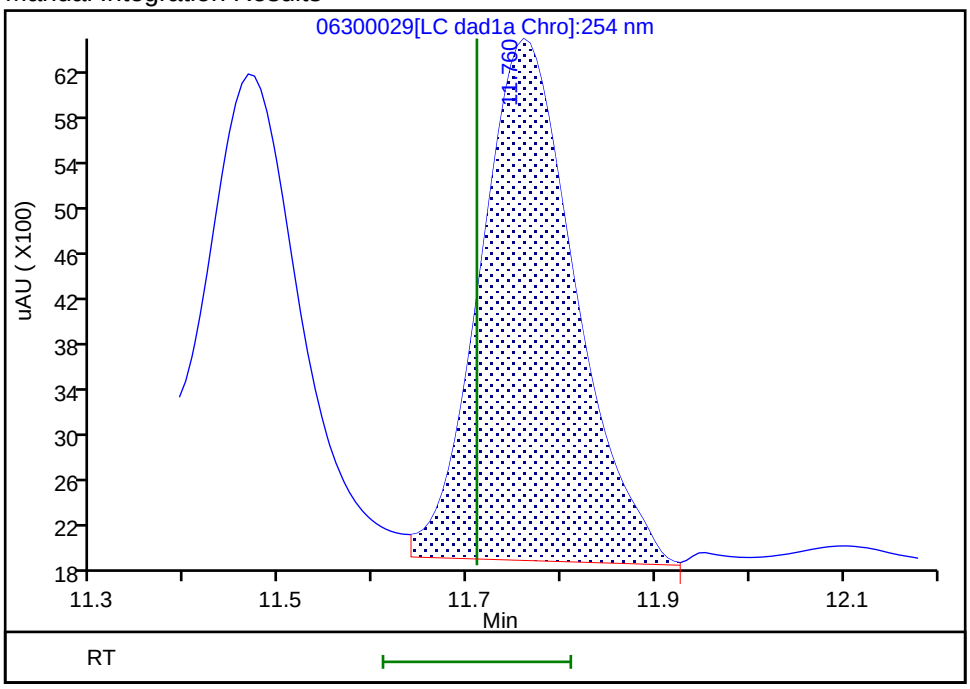
Processing Integration Results

RT: 11.76
Area: 86665
Amount: 0.427307
Amount Units: ug/mL



Manual Integration Results

RT: 11.76
Area: 32021
Amount: 0.157881
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:22:30
Audit Action: Assigned New Baseline Audit Reason: Baseline

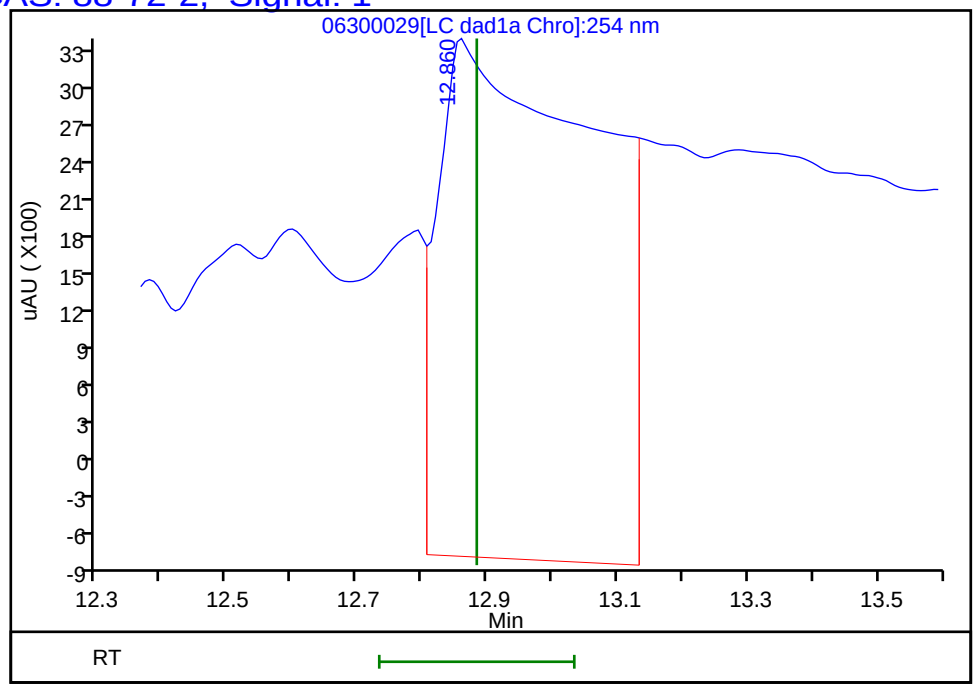
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300029.d				
Injection Date:	01-Jul-2020 02:46:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

21 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 12.86
Response: 69470
Amount: 0.514399



Reviewer: zhangji, 01-Jul-2020 14:22:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

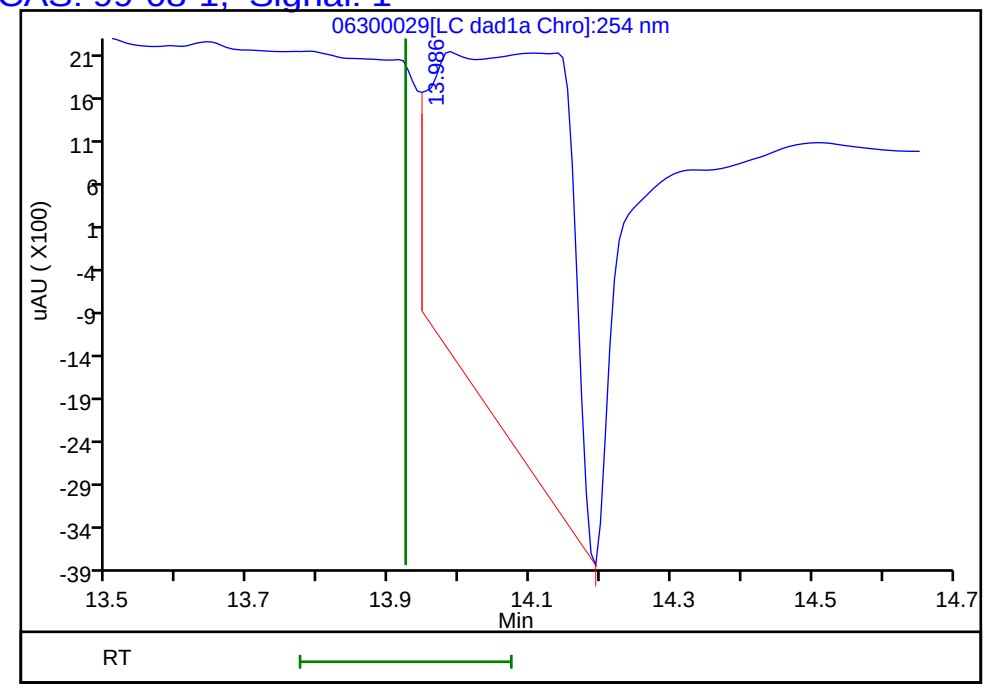
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300029.d

Injection Date:	01-Jul-2020 02:46:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

23 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 13.99
Response: 56210
Amount: 0.392998



Reviewer: zhangji, 01-Jul-2020 14:22:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

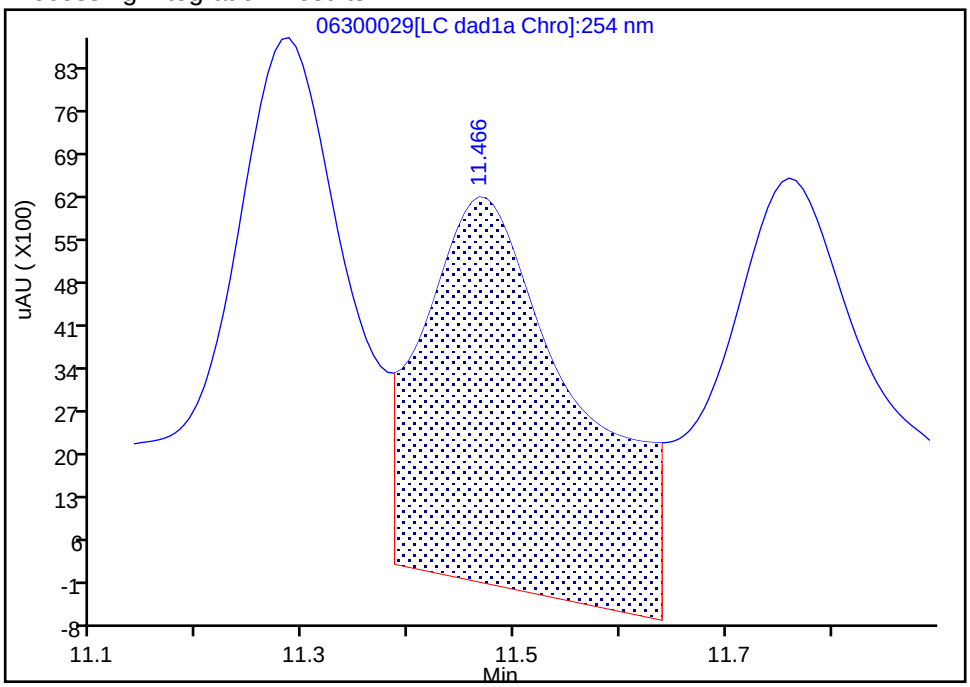
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300029.d				
Injection Date:	01-Jul-2020 02:46:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

17 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

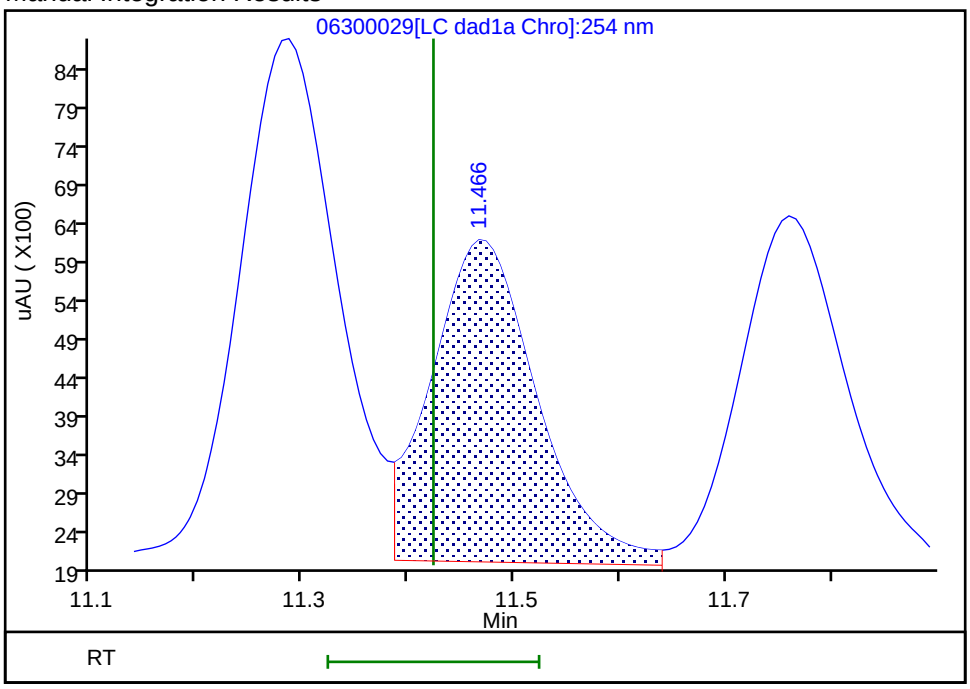
Processing Integration Results

RT: 11.47
Area: 63447
Amount: 0.362222
Amount Units: ug/mL



Manual Integration Results

RT: 11.47
Area: 28898
Amount: 0.168532
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:22:30
Audit Action: Assigned New Baseline Audit Reason: Baseline

User Disabled Compound Report

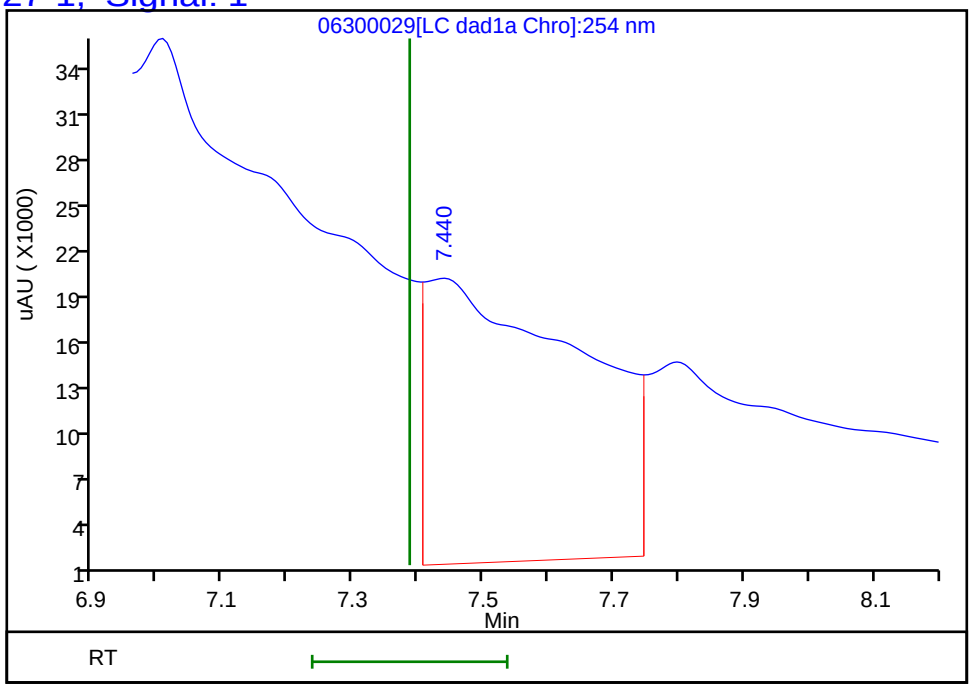
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300029.d

Injection Date:	01-Jul-2020 02:46:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.44
Response: 295919
Amount: 1.866476



Reviewer: zhangji, 01-Jul-2020 14:22:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

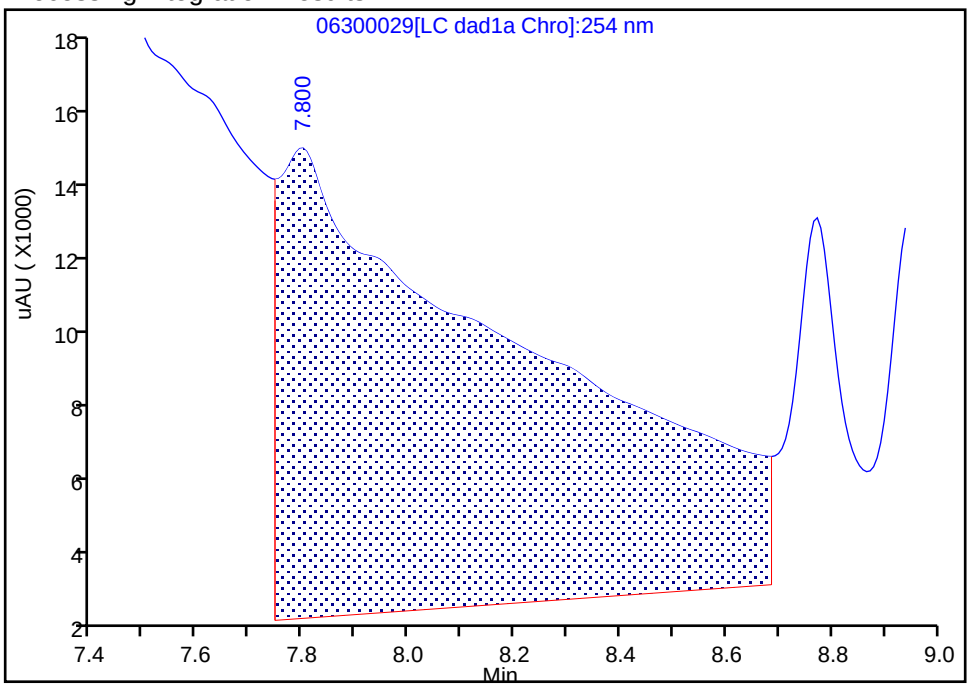
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300029.d				
Injection Date:	01-Jul-2020 02:46:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

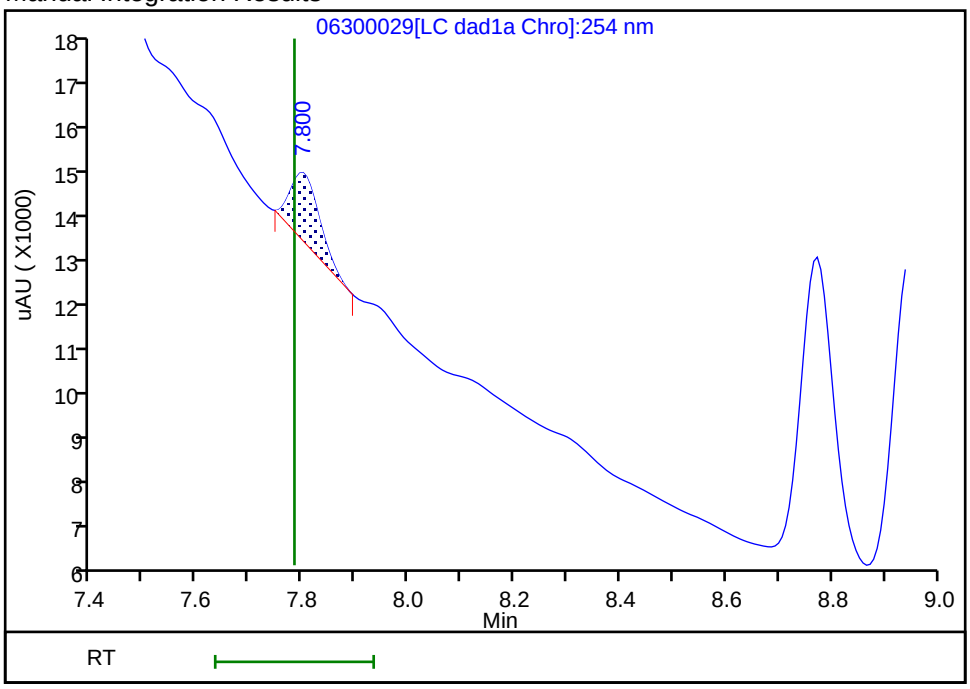
Processing Integration Results

RT: 7.80
Area: 387584
Amount: 3.323675
Amount Units: ug/mL



Manual Integration Results

RT: 7.80
Area: 5566
Amount: 0.047730
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:22:00
Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

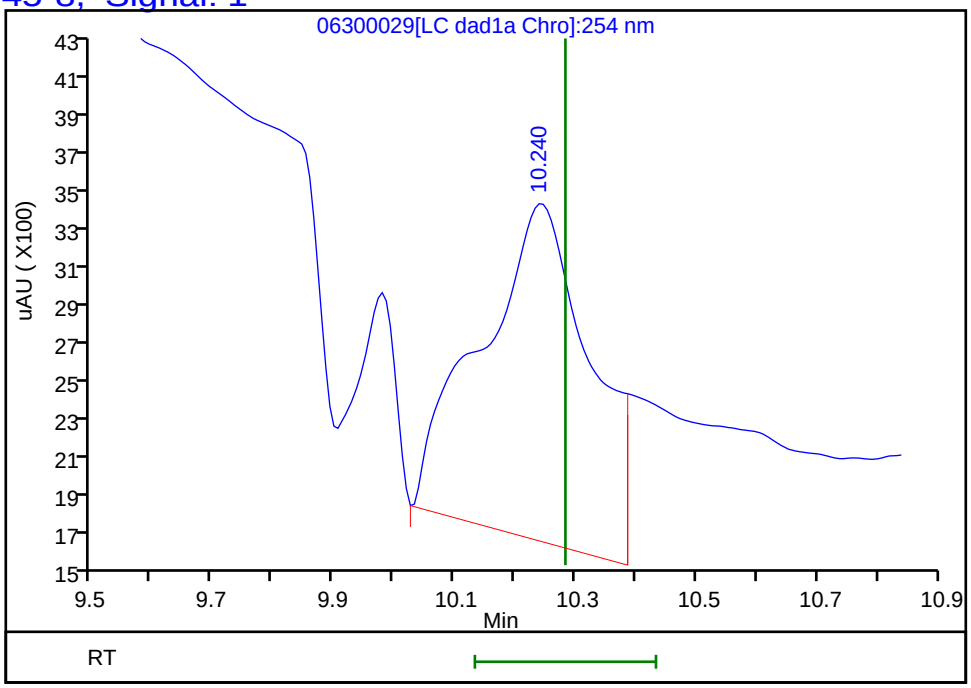
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300029.d

Injection Date:	01-Jul-2020 02:46:03	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.24
Response: 21781
Amount: 0.123034



Reviewer: zhangji, 01-Jul-2020 14:22:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: PZ020-20A RE Lab Sample ID: 280-137736-10 RE

Matrix: Water Lab File ID: 07010014.D

Analysis Method: 8330A Date Collected: 06/15/2020 15:40

Extraction Method: 3535 Date Extracted: 06/30/2020 12:07

Sample wt/vol: 464.8(mL) Date Analyzed: 07/02/2020 02:26

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

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

Analysis Batch No.: 500847 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
98-95-3	*Nitrobenzene*	*0.22*	*U H*	*0.23*	0.22	*0.098*

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	99	*M*	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\07010014.D
Lims ID: 280-137736-B-10-A
Client ID: PZ020-20A
Sample Type: Client
Inject. Date: 02-Jul-2020 02:26:39 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-B-10-
Misc. Info.: 280-0092951-014
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 02-Jul-2020 15:28:45 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1059

First Level Reviewer: zhangji Date: 02-Jul-2020 15:20:43

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
	6 HMX	1	7.260	7.244	0.016	6811	0.008401	M
	7 MNX	1		7.943			ND	
	8 RDX	1	9.493	9.477	0.016	8908	0.0365	M
	9 Nitrobenzene	1		12.370			ND	
$	10 1,2-Dinitrobenzene	1	13.433	13.417	0.016	56643	0.1977	M
	12 1,3-Dinitrobenzene	1		15.943			ND	
	14 o-Nitrotoluene	1	16.813	16.863	-0.050	2582	0.009459	
	15 p-Nitrotoluene	1		17.150			ND	
	16 4-Amino-2,6-dinitrotoluene	1	17.653	17.630	0.023	57634	0.1669	M
	17 m-Nitrotoluene	1		18.083			ND	U
	18 2-Amino-4,6-dinitrotoluene	1	18.613	18.590	0.023	67547	0.1452	
	19 1,3,5-Trinitrobenzene	1	19.287	19.270	0.017	70879	0.1500	
	20 2,6-Dinitrotoluene	1		20.203			ND	
	21 2,4-Dinitrotoluene	1		20.724			ND	U
	22 Tetryl	1		24.050			ND	
	23 2,4,6-Trinitrotoluene	1	25.047	25.030	0.017	75300	0.1796	M

QC Flag Legend

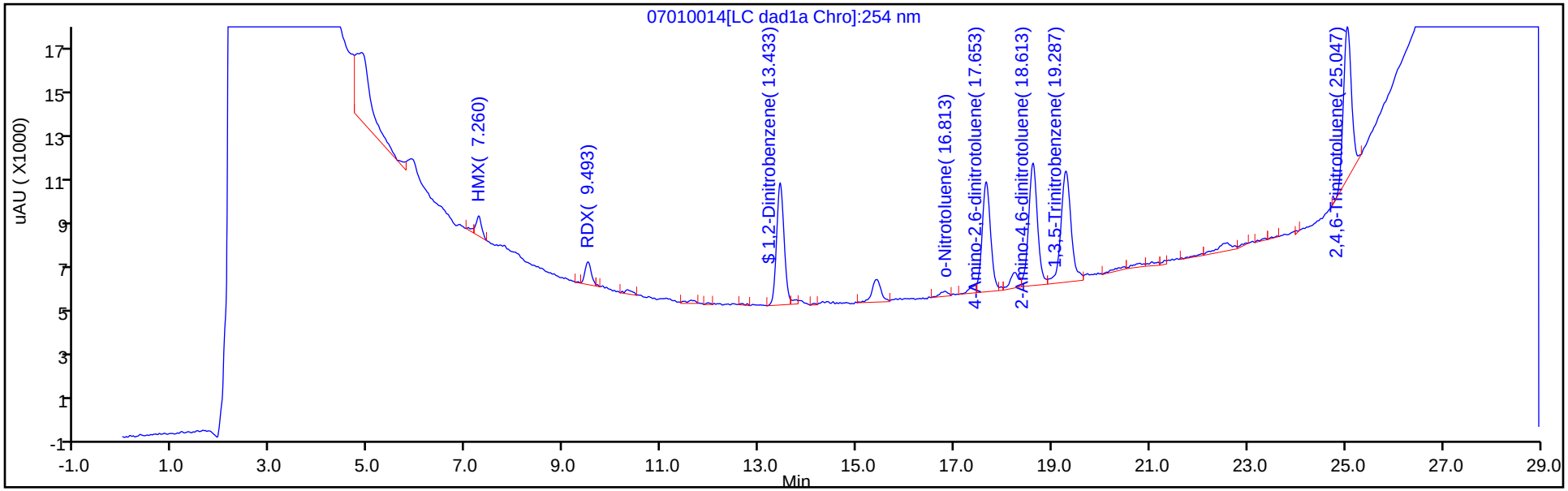
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 02-Jul-2020 15:28:48 Chrom Revision: 2.3 21-Jun-2020 18:30:46

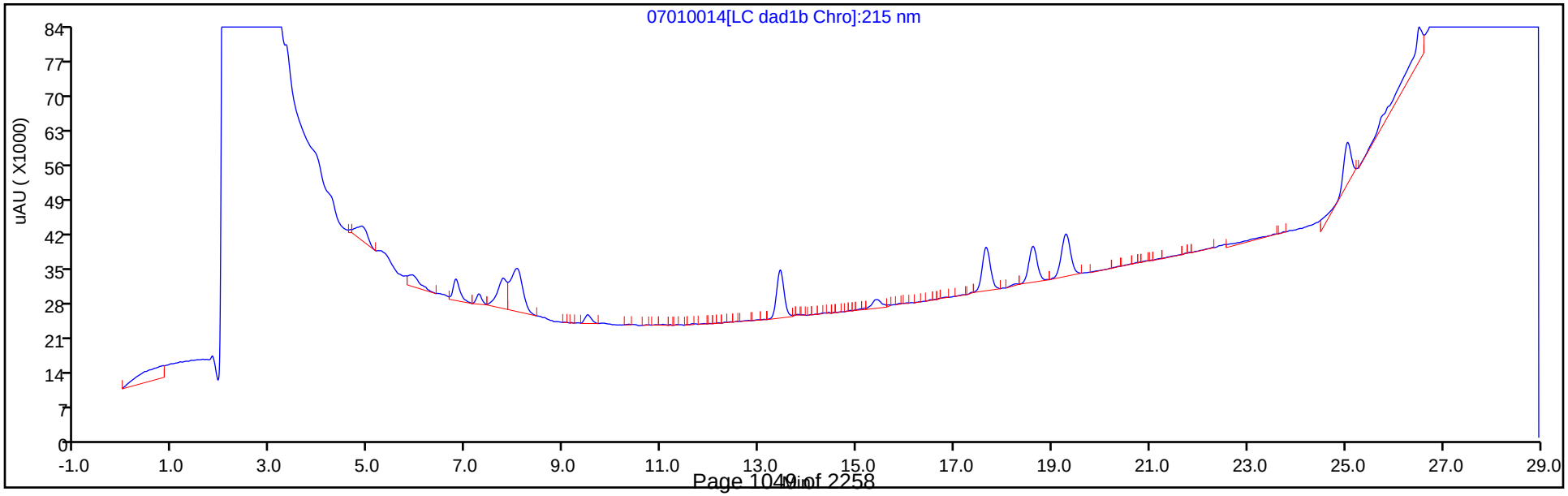
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010014.d				
Injection Date:	02-Jul-2020 02:26:39	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137736-B-10-A	Lab Sample ID:	280-137736-10	Worklist Smp#:	14
Client ID:	PZ020-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\07010014.D				
Lims ID:	280-137736-B-10-A				
Client ID:	PZ020-20A				
Sample Type:	Client				
Inject. Date:	02-Jul-2020 02:26:39	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-B-10-				
Misc. Info.:	280-0092951-014				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	02-Jul-2020 15:28:45	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1059				
First Level Reviewer: zhangji		Date:	02-Jul-2020 15:20:43		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1977	98.84

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

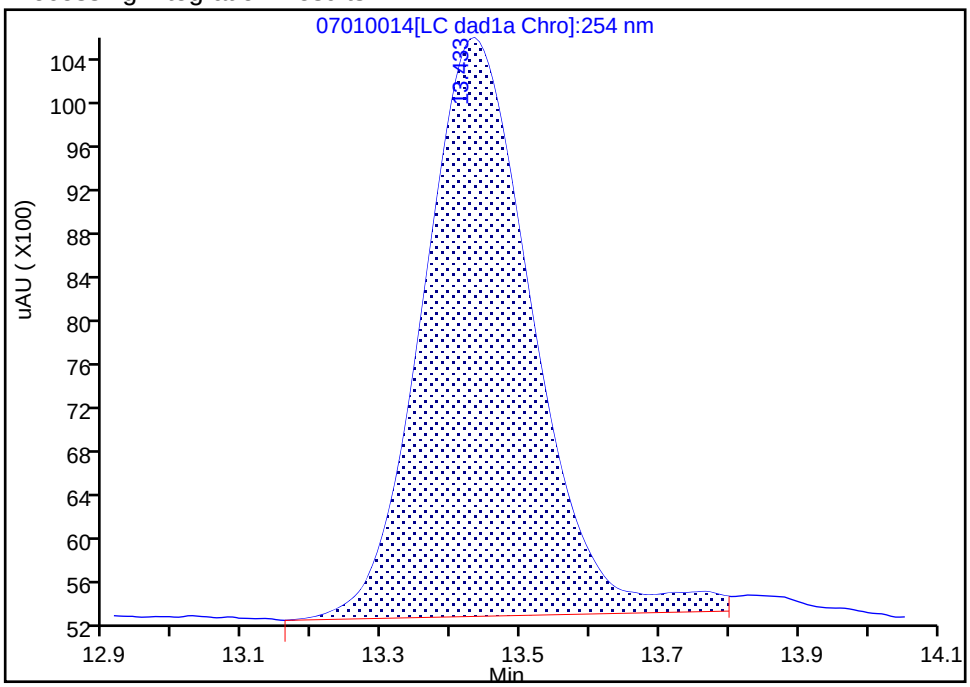
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010014.d				
Injection Date:	02-Jul-2020 02:26:39	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

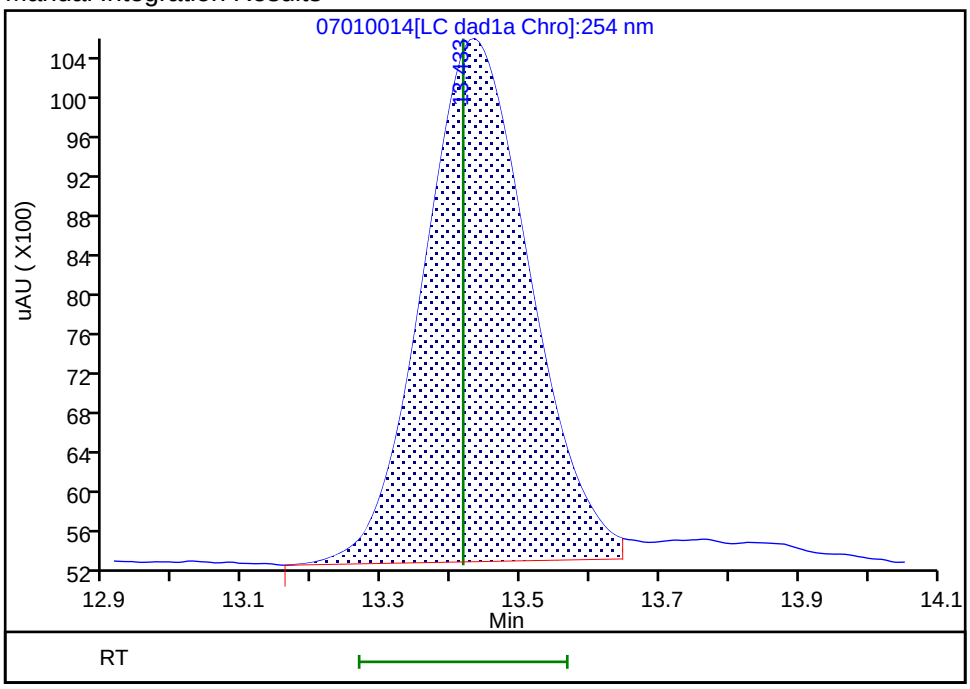
Processing Integration Results

RT: 13.43
Area: 58229
Amount: 0.203406
Amount Units: ug/ml



Manual Integration Results

RT: 13.43
Area: 56643
Amount: 0.197686
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:20:14

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

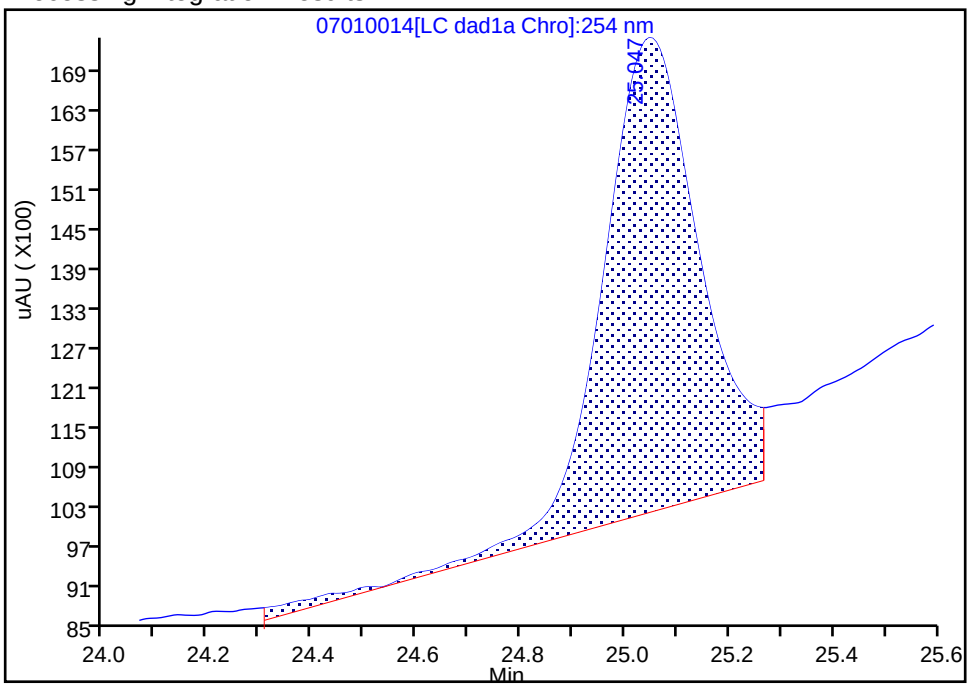
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010014.d				
Injection Date:	02-Jul-2020 02:26:39	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

23 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

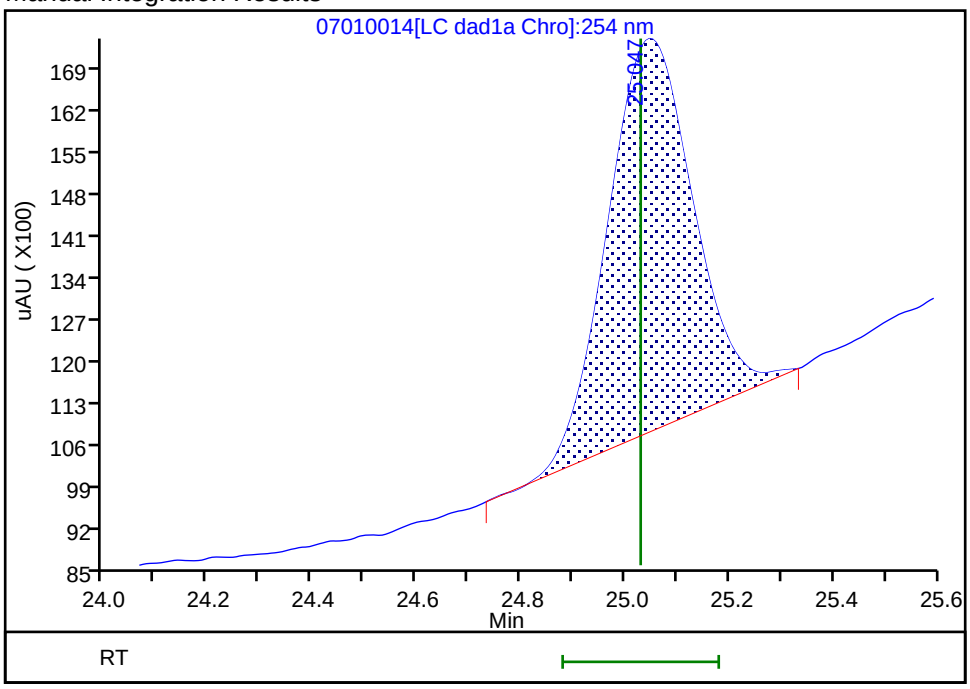
Processing Integration Results

RT: 25.05
Area: 94073
Amount: 0.226376
Amount Units: ug/ml



Manual Integration Results

RT: 25.05
Area: 75300
Amount: 0.179632
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:20:40

Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

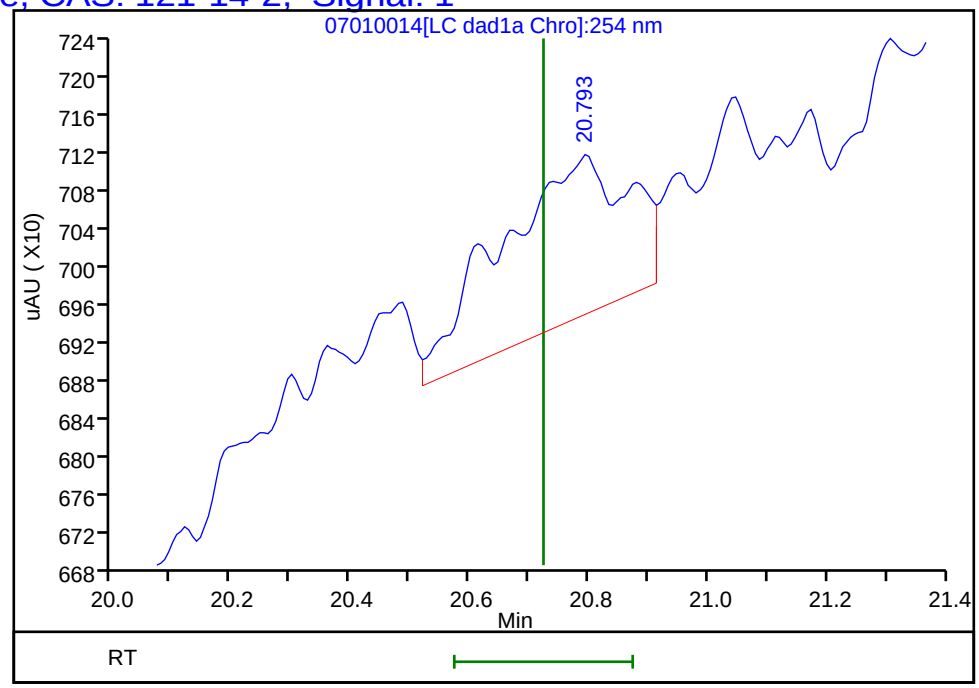
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010014.d

Injection Date:	02-Jul-2020 02:26:39	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2, Signal: 1

RT: 20.79
Response: 2568
Amount: 0.004012



Reviewer: zhangji, 02-Jul-2020 15:20:43

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

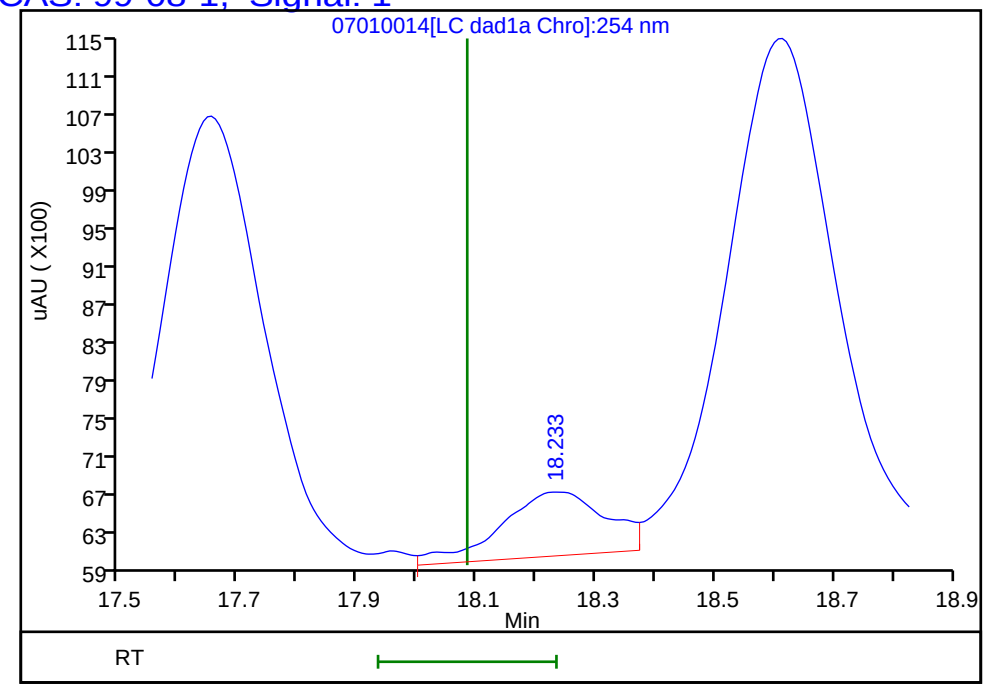
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010014.d

Injection Date:	02-Jul-2020 02:26:39	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 18.23
Response: 8268
Amount: 0.027715



Reviewer: zhangji, 02-Jul-2020 15:20:43

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

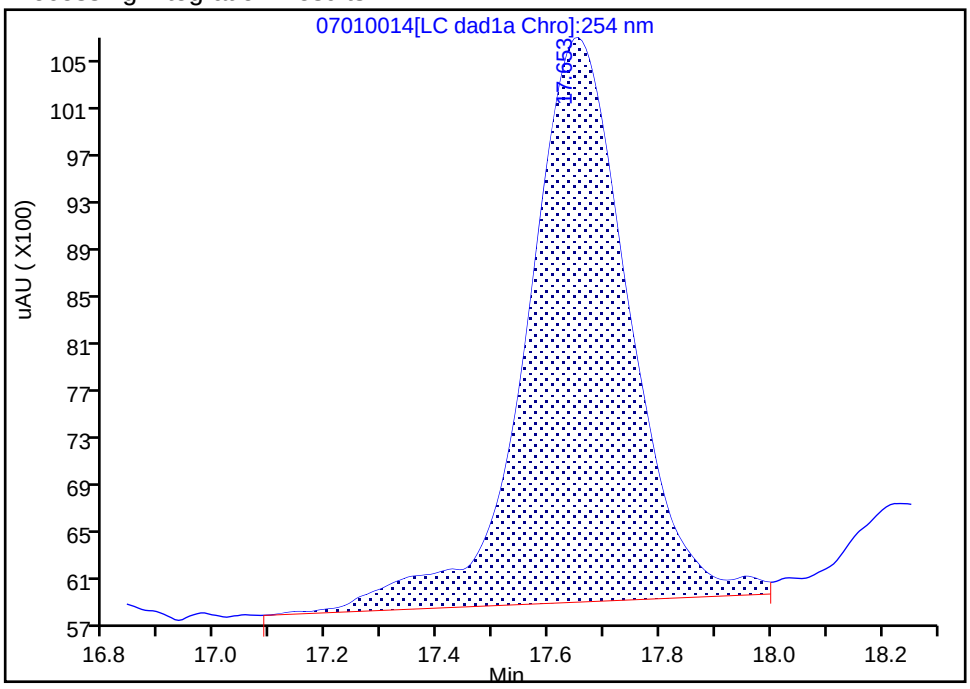
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010014.d				
Injection Date:	02-Jul-2020 02:26:39	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

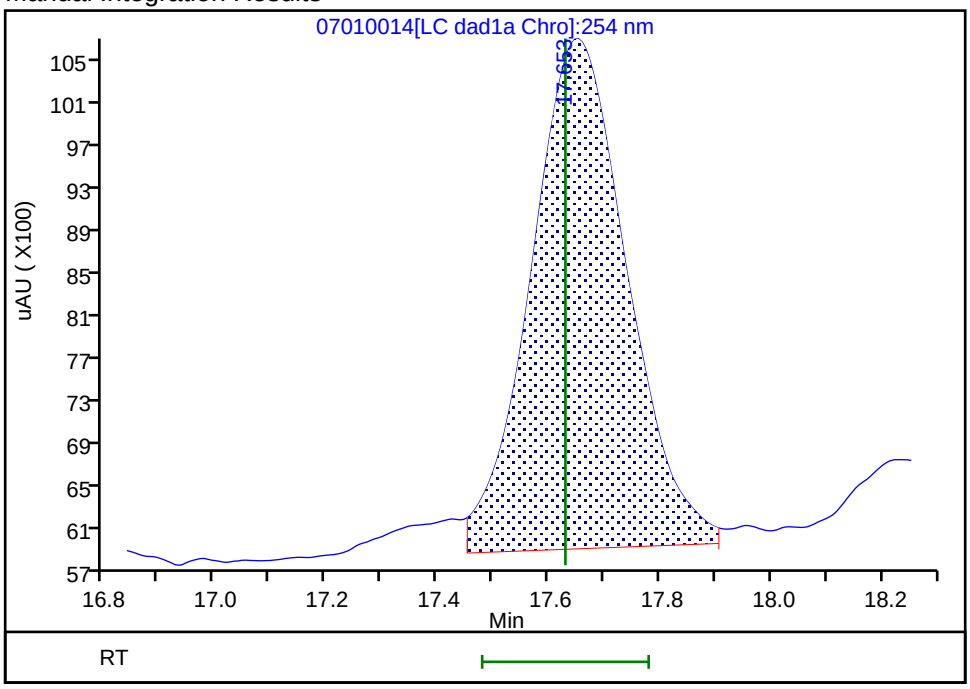
Processing Integration Results

RT: 17.65
Area: 61605
Amount: 0.178444
Amount Units: ug/ml



Manual Integration Results

RT: 17.65
Area: 57634
Amount: 0.166942
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:20:26

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

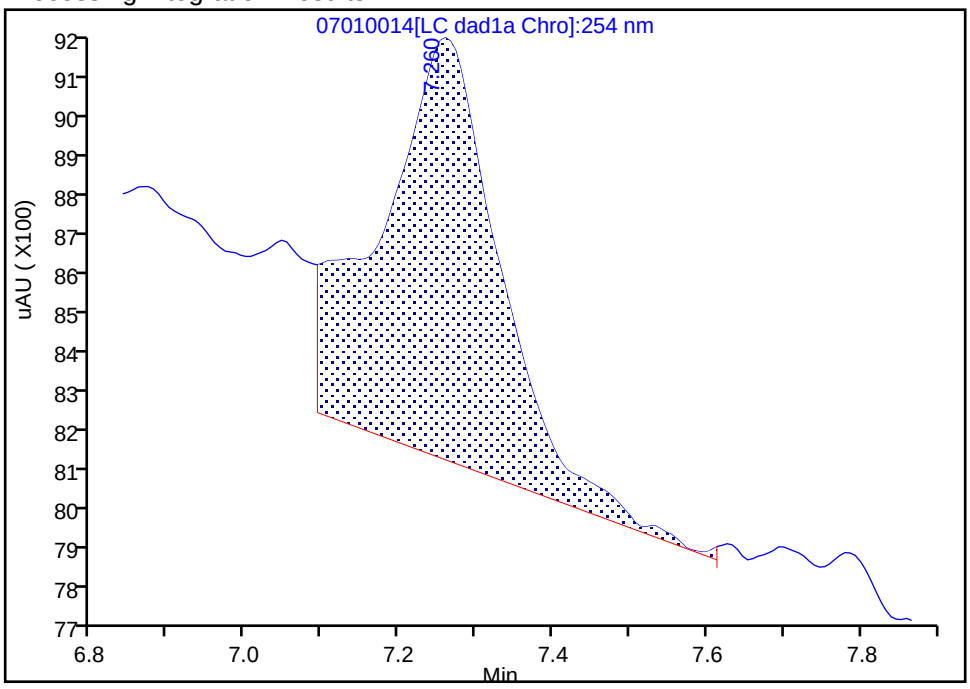
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010014.d				
Injection Date:	02-Jul-2020 02:26:39	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

6 HMX, CAS: 2691-41-0

Signal: 1

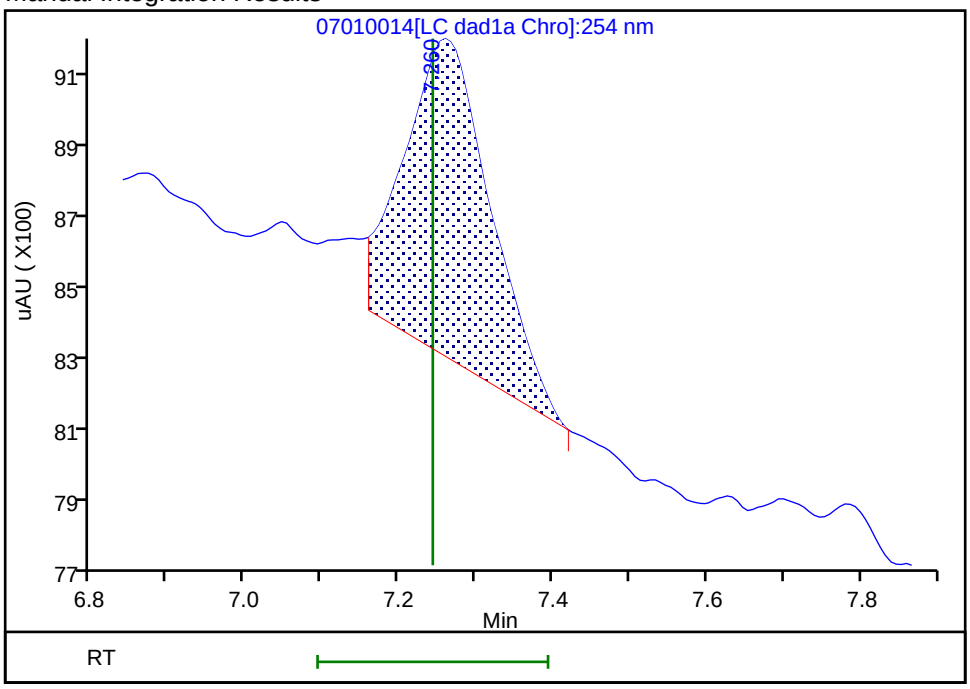
Processing Integration Results

RT: 7.26
Area: 11311
Amount: 0.033823
Amount Units: ug/ml



Manual Integration Results

RT: 7.26
Area: 6811
Amount: 0.008401
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:19:56
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

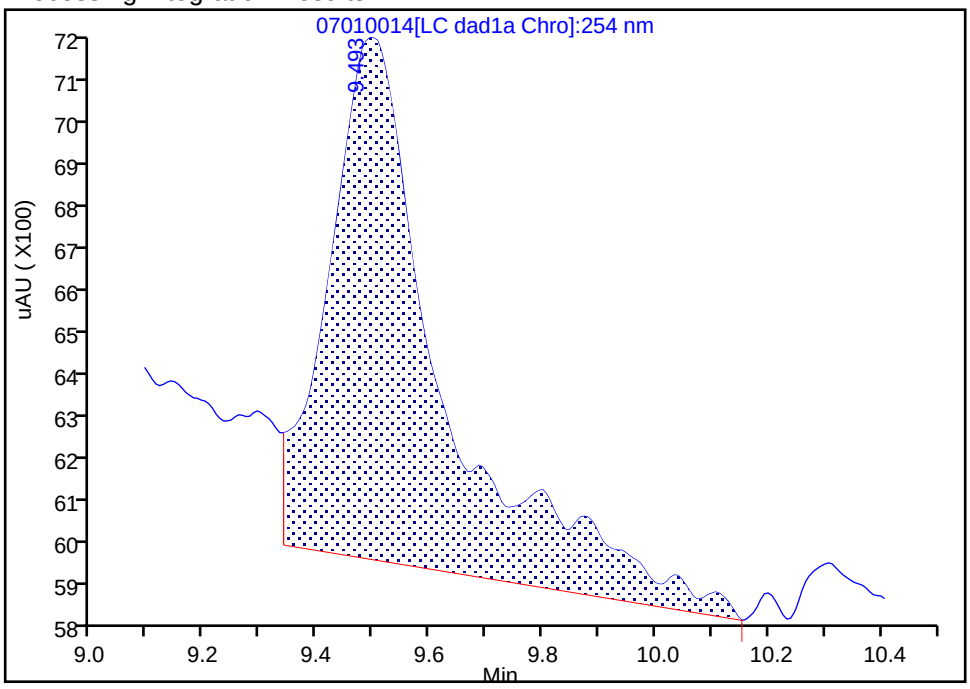
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010014.d				
Injection Date:	02-Jul-2020 02:26:39	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-10-A	Lab Sample ID:	280-137736-10		
Client ID:	PZ020-20A				
Operator ID:	JZ	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

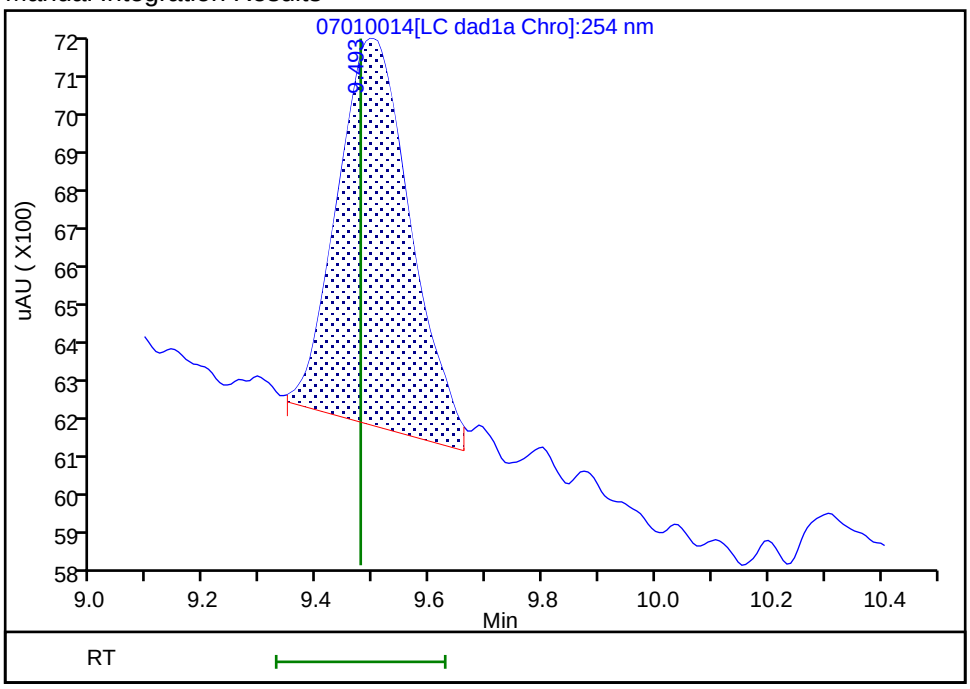
Processing Integration Results

RT: 9.49
Area: 16911
Amount: 0.069205
Amount Units: ug/ml



Manual Integration Results

RT: 9.49
Area: 8908
Amount: 0.036454
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:20:10

Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0087-20A Lab Sample ID: 280-137736-11

Matrix: Water Lab File ID: 06240050.D

Analysis Method: 8330A Date Collected: 06/15/2020 16:40

Extraction Method: 3535 Date Extracted: 06/19/2020 15:47

Sample wt/vol: 465.6(mL) Date Analyzed: 06/25/2020 08:45

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499989 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.21	U	0.23	0.21	0.090
99-65-0	1,3-Dinitrobenzene	0.11	U	0.12	0.11	0.040
118-96-7	2,4,6-Trinitrotoluene	0.11	U	0.12	0.11	0.048
121-14-2	2,4-Dinitrotoluene	0.086	U	0.11	0.086	0.029
606-20-2	2,6-Dinitrotoluene	0.086	U	0.11	0.086	0.043
35572-78-2	2-Amino-4,6-dinitrotoluene	0.11	U Q	0.12	0.11	0.054
88-72-2	2-Nitrotoluene	0.21	U Q	0.23	0.21	0.092
99-08-1	3-Nitrotoluene	0.43	U M Q	0.43	0.43	0.21
19406-51-0	4-Amino-2,6-dinitrotoluene	0.13	U Q	0.16	0.13	0.062
99-99-0	4-Nitrotoluene	0.43	U M Q	0.44	0.43	0.11
2691-41-0	HMX	0.37	M	0.23	0.21	0.094
5755-27-1	MNX	0.43	U	2.1	0.43	0.17
98-95-3	Nitrobenzene	0.21	U	0.23	0.21	0.098
121-82-4	RDX	0.15	J M	0.23	0.21	0.055
479-45-8	Tetryl	0.11	U	0.12	0.11	0.034

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	101	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240050.D
Lims ID: 280-137736-A-11-A
Client ID: G0087-20A
Sample Type: Client
Inject. Date: 25-Jun-2020 08:45:41 ALS Bottle#: 50 Worklist Smp#: 50
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-11-
Misc. Info.: 280-0092716-050
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:09:52 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:16:41

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1	6.702	6.712	-0.010	2956	0.0344	M
6 MNX	1		7.384			ND	
7 RDX	1	7.776	7.785	-0.009	1592	0.0137	M
$ 9 1,2-Dinitrobenzene	1	8.736	8.738	-0.002	27886	0.2018	M
10 1,3,5-Trinitrobenzene	1		8.918			ND	
11 1,3-Dinitrobenzene	1		9.565			ND	
12 Nitrobenzene	1		9.945			ND	
14 Tetryl	1		10.252			ND	
16 2,4,6-Trinitrotoluene	1		11.225			ND	
17 4-Amino-2,6-dinitrotoluene	1		11.385			ND	
18 2-Amino-4,6-dinitrotoluene	1		11.678			ND	
19 2,6-Dinitrotoluene	1		11.818			ND	
20 2,4-Dinitrotoluene	1		12.018			ND	
21 o-Nitrotoluene	1		12.845			ND	
22 p-Nitrotoluene	1		13.272			ND	U
23 m-Nitrotoluene	1		13.865			ND	U

QC Flag Legend

Review Flags
M - Manually Integrated
U - Marked Undetected

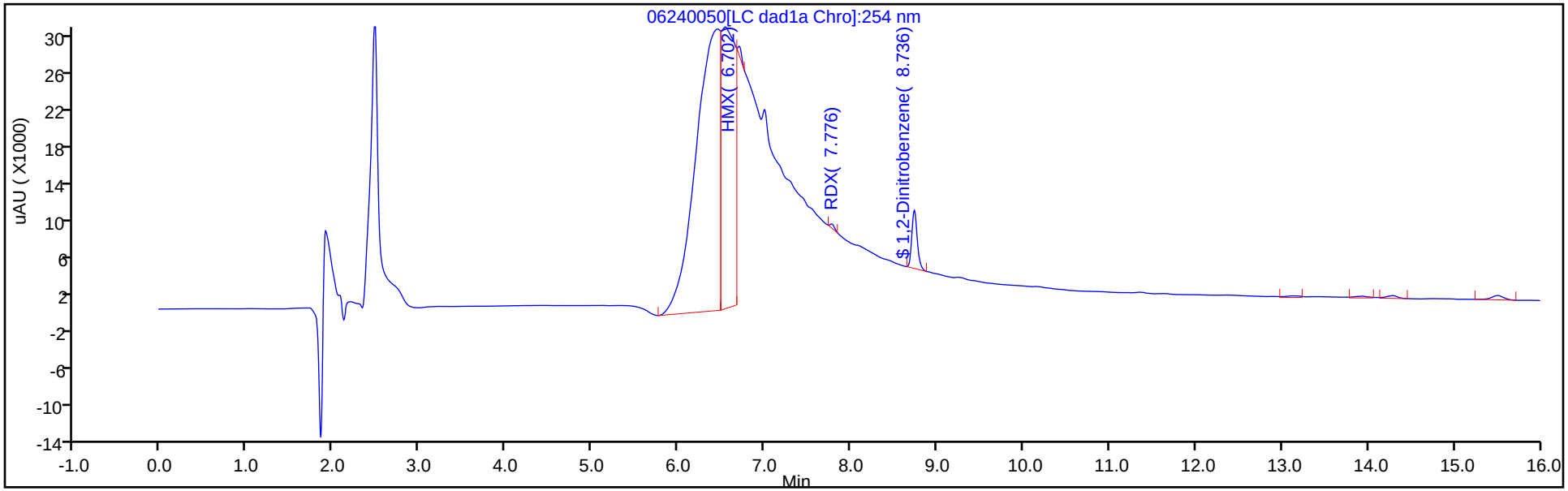
Report Date: 25-Jun-2020 21:09:54 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

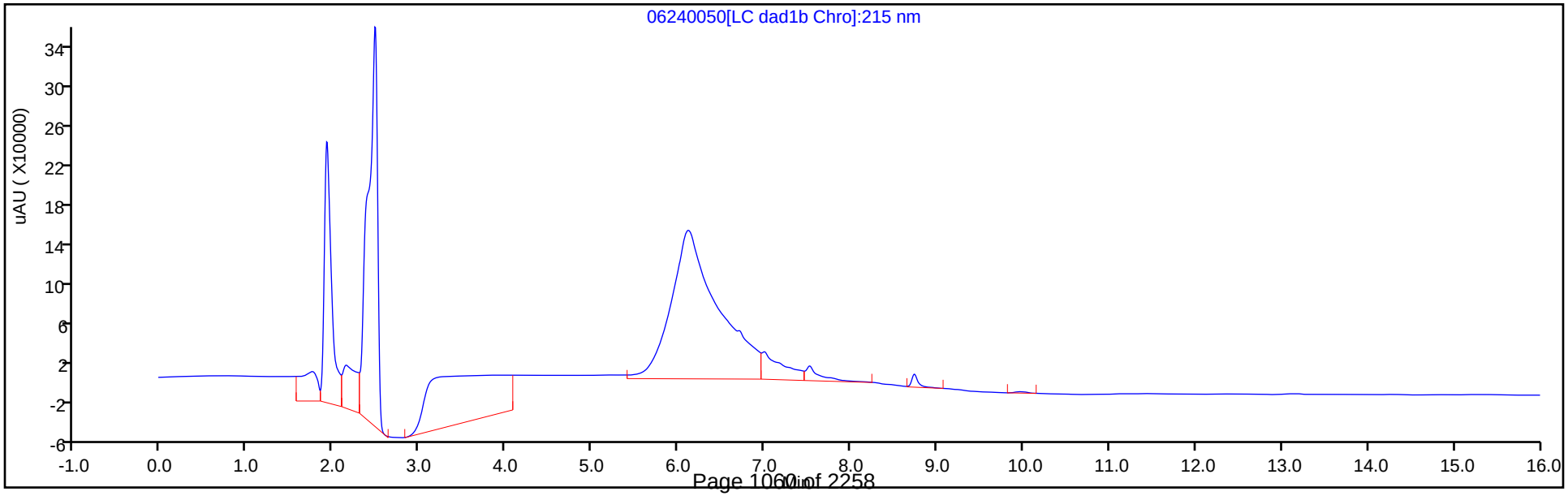
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240050.d

Injection Date:	25-Jun-2020 08:45:41	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-A-11-A	Lab Sample ID:	280-137736-11	Worklist Smp#:	50
Client ID:	G0087-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	50
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240050.D
Lims ID: 280-137736-A-11-A
Client ID: G0087-20A
Sample Type: Client
Inject. Date: 25-Jun-2020 08:45:41 ALS Bottle#: 50 Worklist Smp#: 50
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-11-
Misc. Info.: 280-0092716-050
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:09:52 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:16:41

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.2018	100.88

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

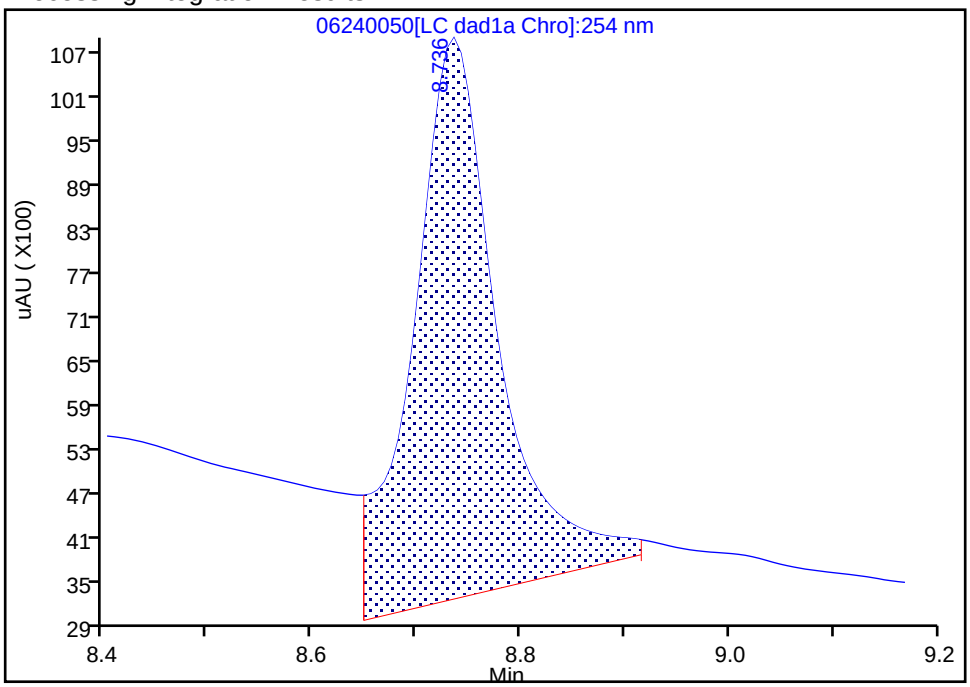
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240050.d				
Injection Date:	25-Jun-2020 08:45:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-11-A	Lab Sample ID:	280-137736-11		
Client ID:	G0087-20A				
Operator ID:	JZ	ALS Bottle#:	50	Worklist Smp#:	50
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

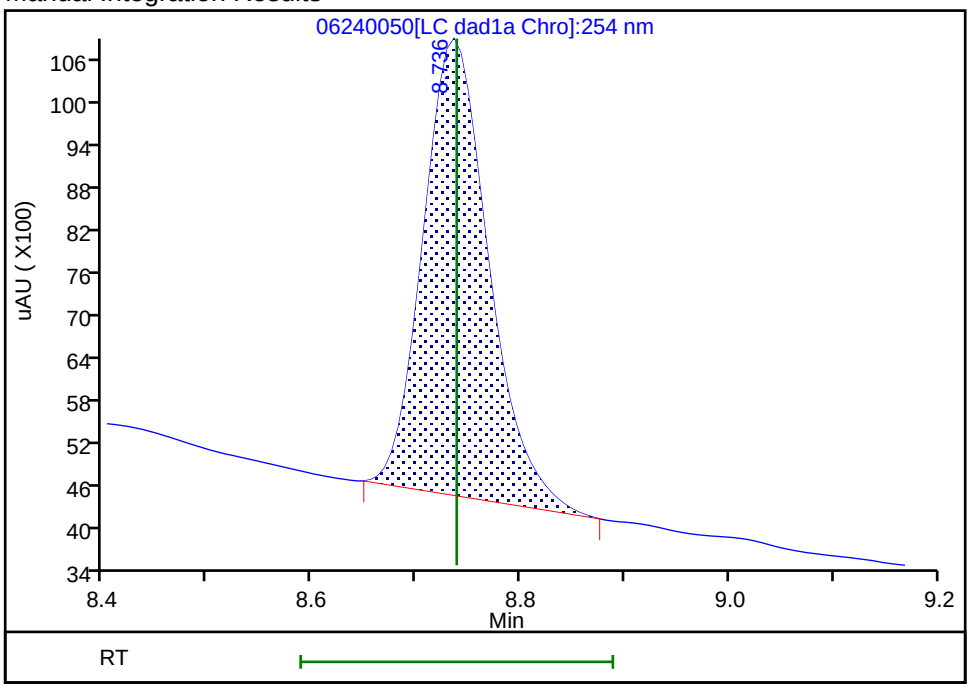
Processing Integration Results

RT: 8.74
Area: 42807
Amount: 0.309719
Amount Units: ug/mL



Manual Integration Results

RT: 8.74
Area: 27886
Amount: 0.201762
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:16:20

Audit Action: Manually Integrated Audit Reason: Baseline

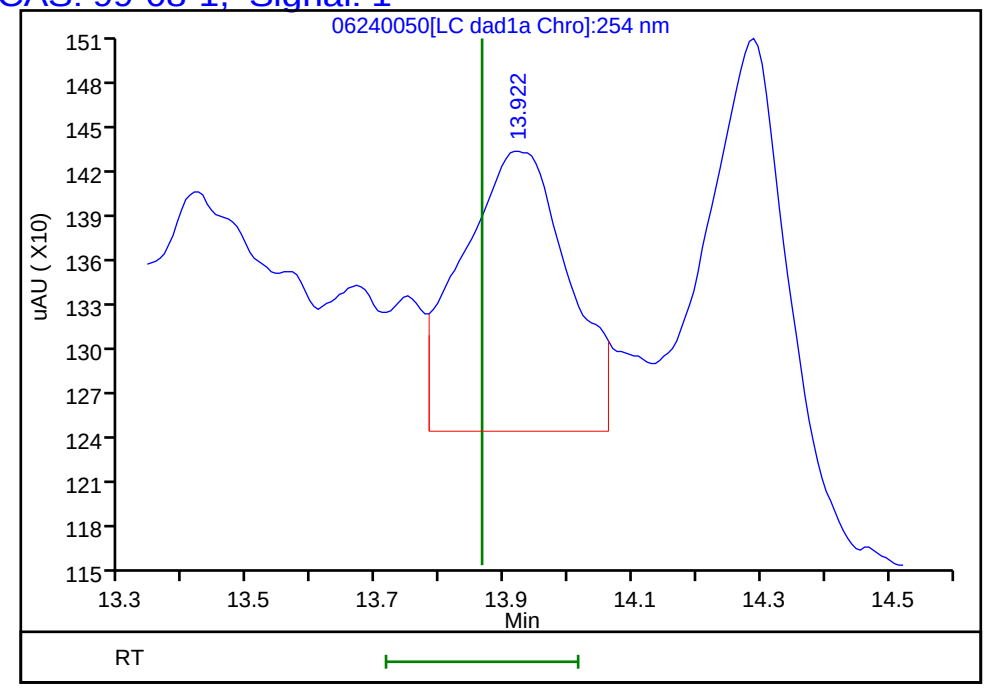
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240050.d				
Injection Date:	25-Jun-2020 08:45:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-11-A	Lab Sample ID:	280-137736-11		
Client ID:	G0087-20A				
Operator ID:	JZ	ALS Bottle#:	50	Worklist Smp#:	50
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

23 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 13.92
Response: 2136
Amount: 0.014934



Reviewer: zhangji, 25-Jun-2020 16:16:41
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

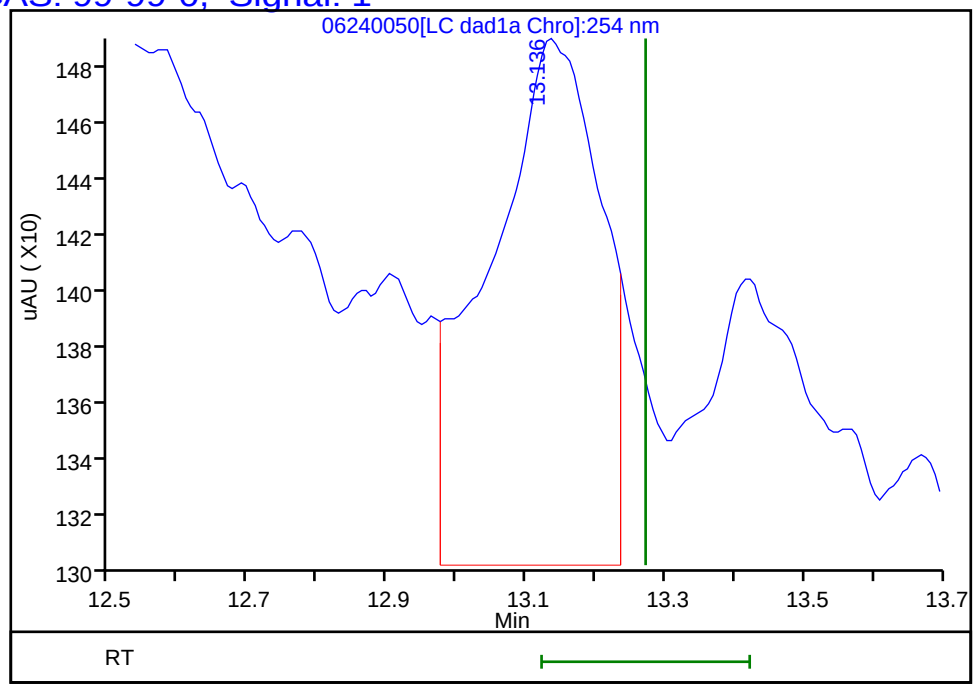
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240050.d				
Injection Date:	25-Jun-2020 08:45:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-11-A	Lab Sample ID:	280-137736-11		
Client ID:	G0087-20A				
Operator ID:	JZ	ALS Bottle#:	50	Worklist Smp#:	50
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

22 p-Nitrotoluene, CAS: 99-99-0, Signal: 1

RT: 13.14
Response: 2065
Amount: 0.018274



Reviewer: zhangji, 25-Jun-2020 16:16:41
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

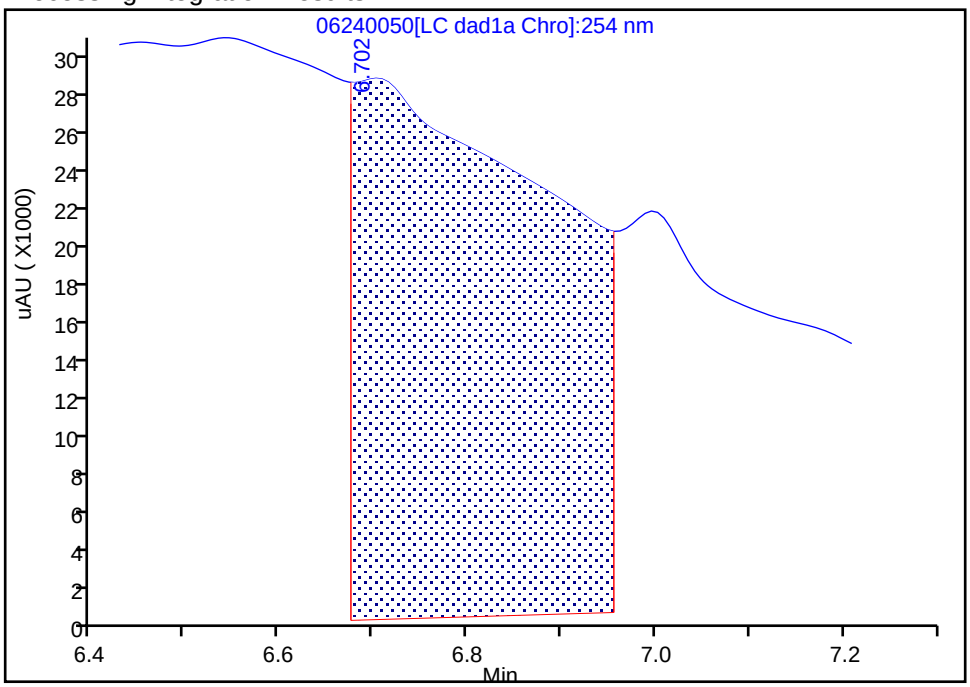
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240050.d				
Injection Date:	25-Jun-2020 08:45:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-11-A	Lab Sample ID:	280-137736-11		
Client ID:	G0087-20A				
Operator ID:	JZ	ALS Bottle#:	50	Worklist Smp#:	50
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

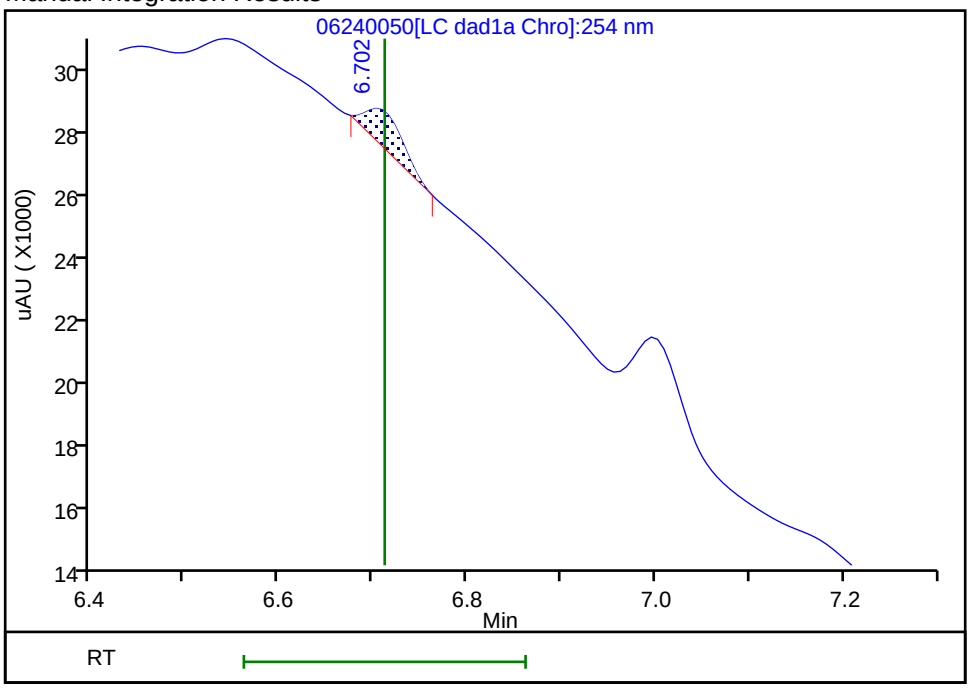
Processing Integration Results

RT: 6.70
Area: 405511
Amount: 4.717319
Amount Units: ug/mL



Manual Integration Results

RT: 6.70
Area: 2956
Amount: 0.034387
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:16:28

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

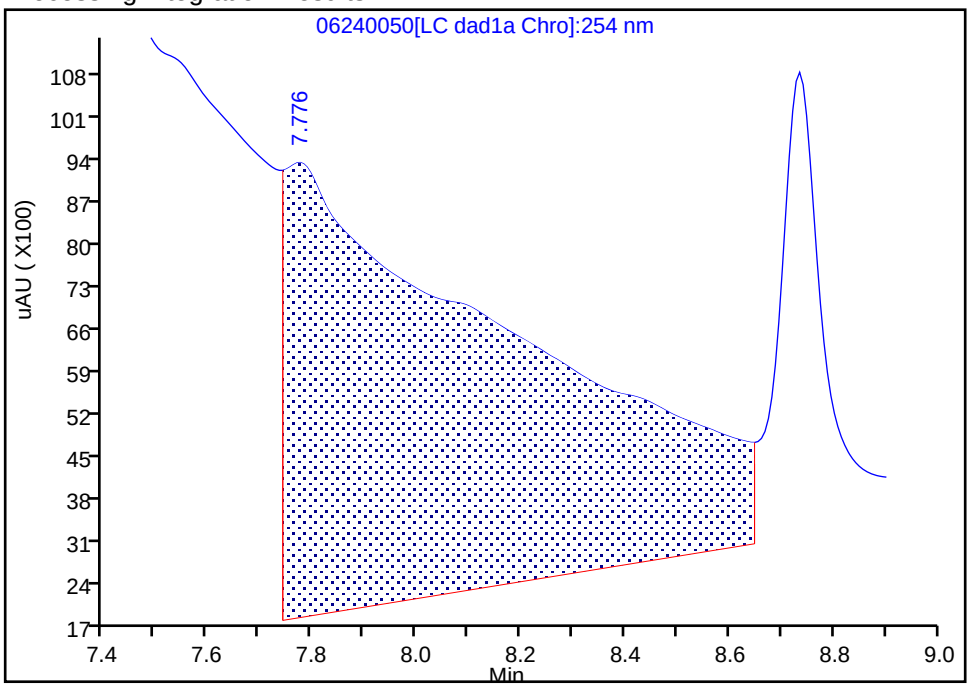
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240050.d		
Injection Date:	25-Jun-2020 08:45:41	Instrument ID:	CHHPLC_X3
Lims ID:	280-137736-A-11-A	Lab Sample ID:	280-137736-11
Client ID:	G0087-20A		
Operator ID:	JZ	ALS Bottle#:	50 Worklist Smp#: 50
Injection Vol:	100.0 ul	Dil. Factor:	1.0000
Method:	8330_X3	Limit Group:	GCSV - 8330
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm

7 RDX, CAS: 121-82-4

Signal: 1

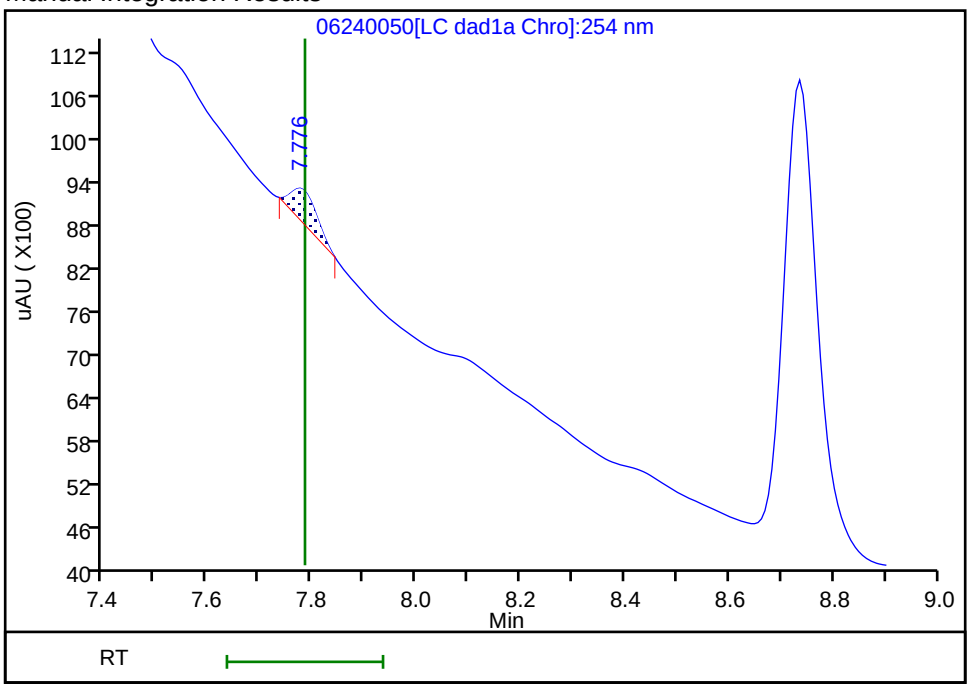
Processing Integration Results

RT: 7.78
Area: 227827
Amount: 1.953700
Amount Units: ug/mL



Manual Integration Results

RT: 7.78
Area: 1592
Amount: 0.013652
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:16:35

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0087-20A Lab Sample ID: 280-137736-11

Matrix: Water Lab File ID: 06260035.D

Analysis Method: 8330A Date Collected: 06/15/2020 16:40

Extraction Method: 3535 Date Extracted: 06/19/2020 15:47

Sample wt/vol: 465.6(mL) Date Analyzed: 06/27/2020 16:10

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

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

Analysis Batch No.: 500327 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	96	*M*	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260035.D
Lims ID: 280-137736-A-11-A
Client ID: G0087-20A
Sample Type: Client
Inject. Date: 27-Jun-2020 16:10:57 ALS Bottle#: 35 Worklist Smp#: 35
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-11-
Misc. Info.: 280-0092796-035
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 01-Jul-2020 16:55:51 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1062

First Level Reviewer: zhangji Date: 27-Jun-2020 16:47:23

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1	7.144	7.154	-0.010	6822	0.008463	M
7 MNX	1		7.919			ND	
8 RDX	1	9.331	9.367	-0.036	3151	0.0129	
9 Nitrobenzene	1		12.274			ND	
$ 10 1,2-Dinitrobenzene	1	13.271	13.281	-0.010	55289	0.1928	M
12 1,3-Dinitrobenzene	1		15.814			ND	
14 o-Nitrotoluene	1		16.754			ND	U
15 p-Nitrotoluene	1		17.034			ND	
16 4-Amino-2,6-dinitrotoluene	1		17.474			ND	
17 m-Nitrotoluene	1		17.967			ND	
18 2-Amino-4,6-dinitrotoluene	1		18.407			ND	
19 1,3,5-Trinitrobenzene	1		19.147			ND	
20 2,6-Dinitrotoluene	1		20.074			ND	
21 2,4-Dinitrotoluene	1		20.587			ND	
22 Tetryl	1		23.887			ND	U
23 2,4,6-Trinitrotoluene	1		24.907			ND	

QC Flag Legend

Review Flags
M - Manually Integrated
U - Marked Undetected

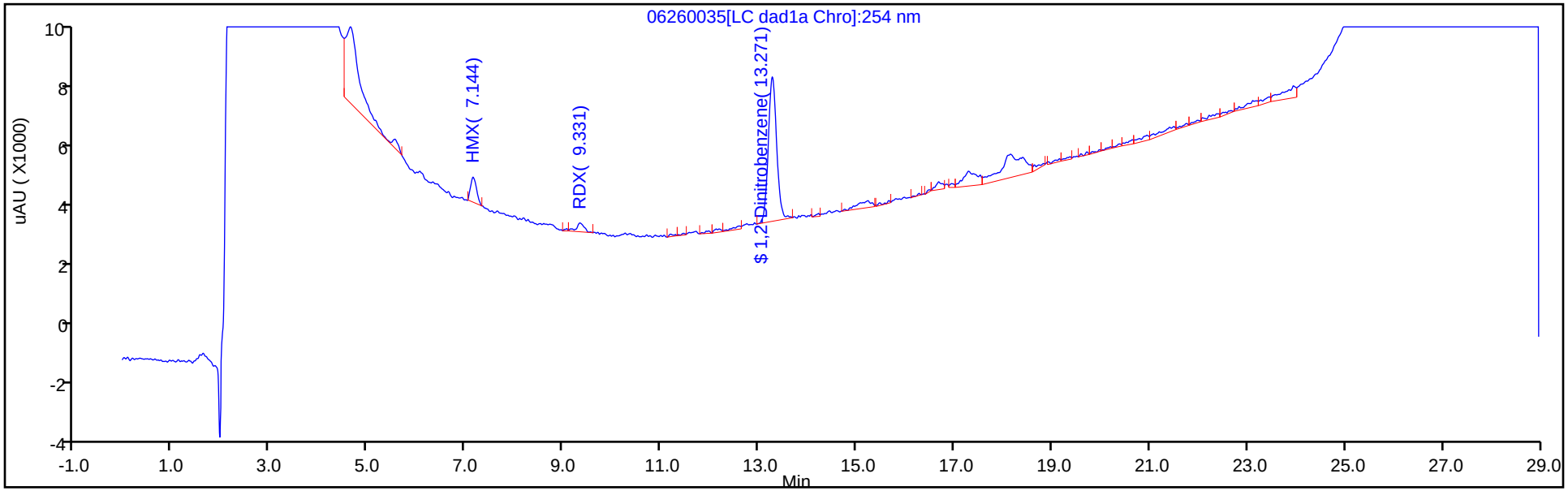
Report Date: 01-Jul-2020 16:56:01 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

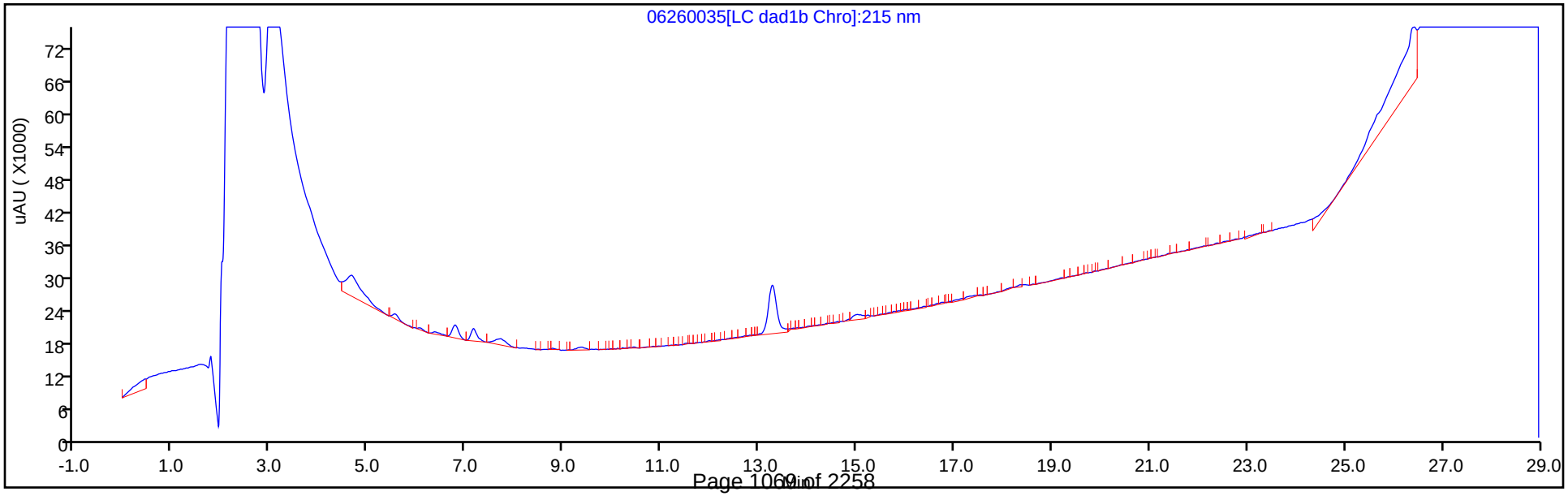
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260035.d

Injection Date:	27-Jun-2020 16:10:57	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137736-A-11-A	Lab Sample ID:	280-137736-11	Worklist Smp#:	35
Client ID:	G0087-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260035.D				
Lims ID:	280-137736-A-11-A				
Client ID:	G0087-20A				
Sample Type:	Client				
Inject. Date:	27-Jun-2020 16:10:57	ALS Bottle#:	35	Worklist Smp#:	35
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-11-				
Misc. Info.:	280-0092796-035				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	01-Jul-2020 16:55:51	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1062				
First Level Reviewer: zhangji		Date:	27-Jun-2020 16:47:23		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1928	96.40

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

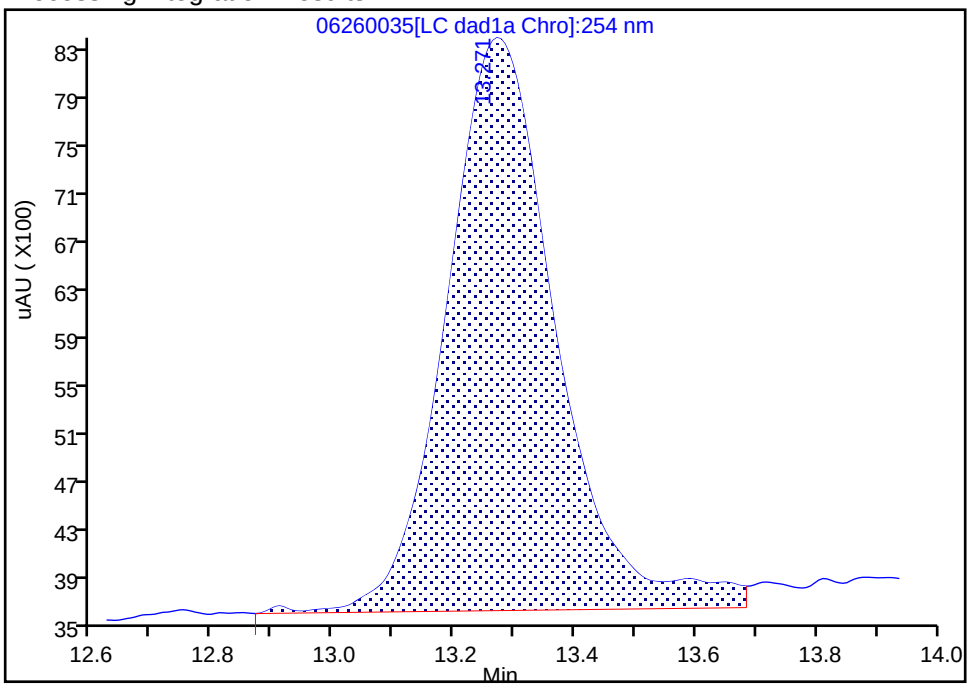
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260035.d				
Injection Date:	27-Jun-2020 16:10:57	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-11-A	Lab Sample ID:	280-137736-11		
Client ID:	G0087-20A				
Operator ID:	JZ	ALS Bottle#:	35	Worklist Smp#:	35
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

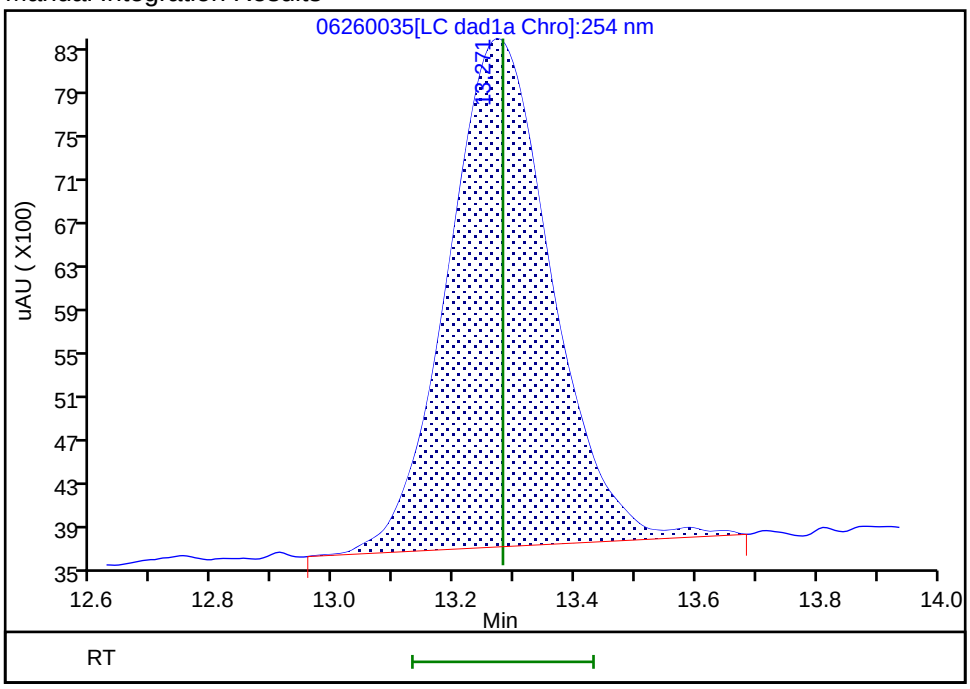
Processing Integration Results

RT: 13.27
Area: 59658
Amount: 0.208561
Amount Units: ug/ml



Manual Integration Results

RT: 13.27
Area: 55289
Amount: 0.192801
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 16:47:10

Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

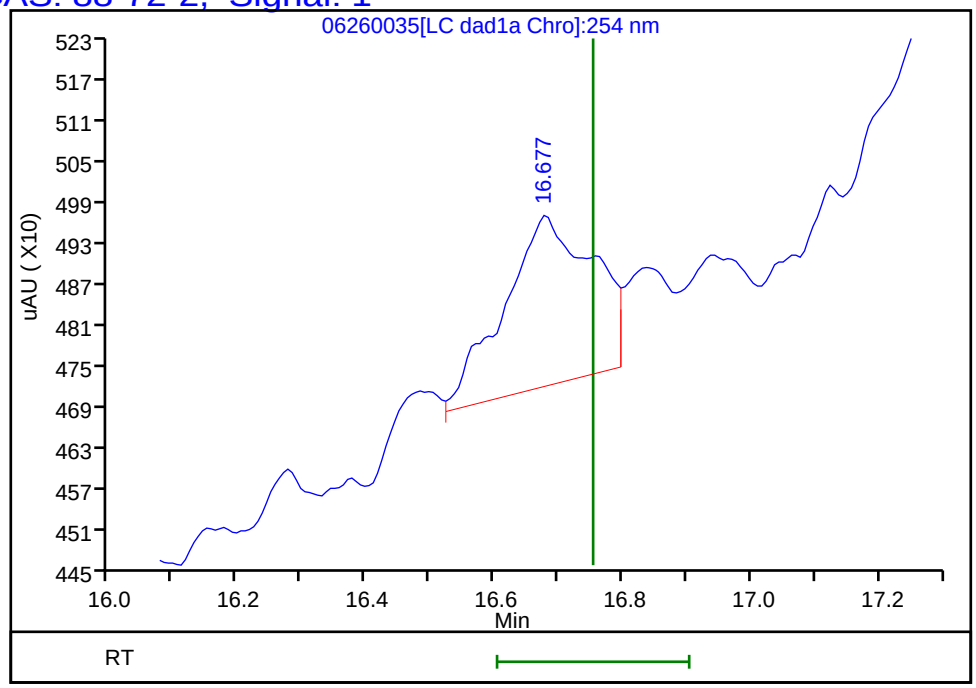
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260035.d

Injection Date:	27-Jun-2020 16:10:57	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-11-A	Lab Sample ID:	280-137736-11		
Client ID:	G0087-20A				
Operator ID:	JZ	ALS Bottle#:	35	Worklist Smp#:	35
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.68
Response: 2389
Amount: 0.008752



Reviewer: zhangji, 27-Jun-2020 16:47:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

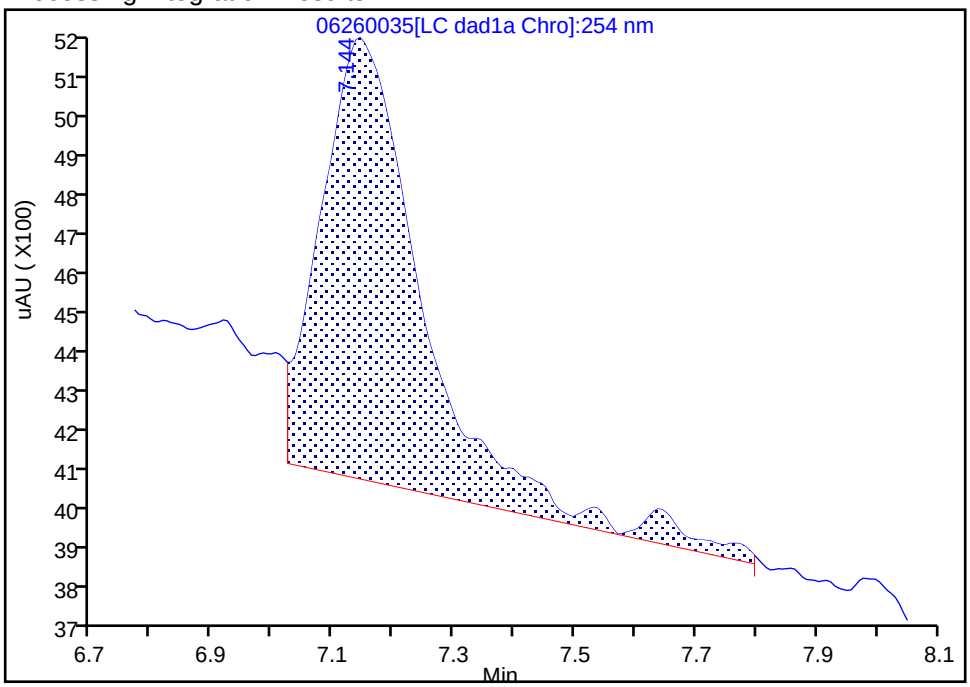
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260035.d				
Injection Date:	27-Jun-2020 16:10:57	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-11-A	Lab Sample ID:	280-137736-11		
Client ID:	G0087-20A				
Operator ID:	JZ	ALS Bottle#:	35	Worklist Smp#:	35
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

6 HMX, CAS: 2691-41-0

Signal: 1

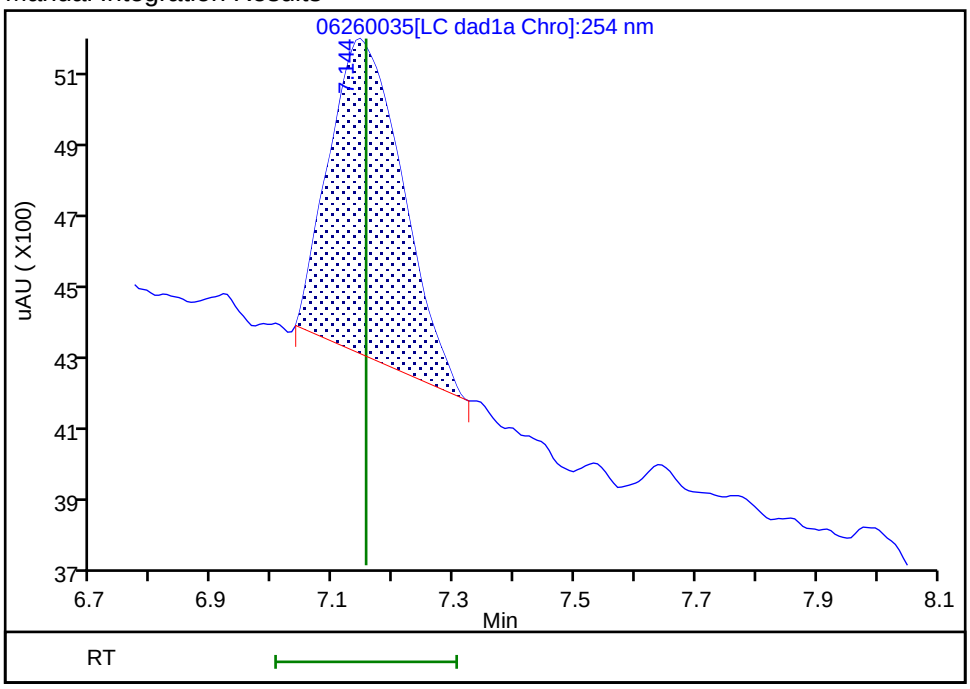
Processing Integration Results

RT: 7.14
Area: 12002
Amount: 0.037726
Amount Units: ug/ml



Manual Integration Results

RT: 7.14
Area: 6822
Amount: 0.008463
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 16:47:18

Audit Action: Manually Integrated Audit Reason: Baseline

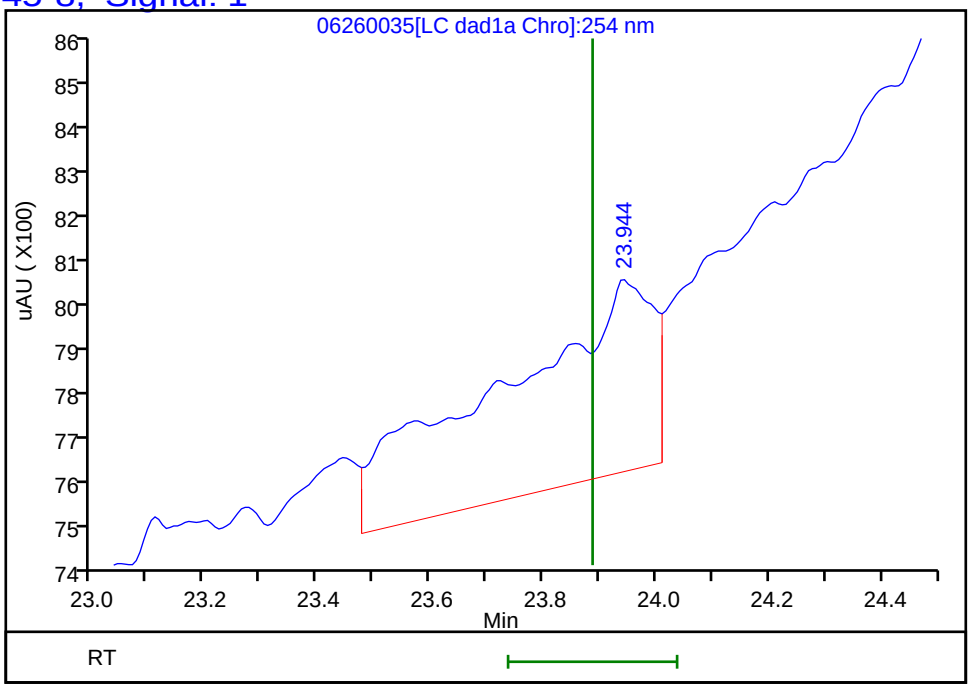
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260035.d				
Injection Date:	27-Jun-2020 16:10:57	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-11-A	Lab Sample ID:	280-137736-11		
Client ID:	G0087-20A				
Operator ID:	JZ	ALS Bottle#:	35	Worklist Smp#:	35
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

22 Tetryl, CAS: 479-45-8, Signal: 1

RT: 23.94
Response: 7613
Amount: 0.020649



Reviewer: zhangji, 27-Jun-2020 16:47:23
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0087-20A RE Lab Sample ID: 280-137736-11 RE

Matrix: Water Lab File ID: 06300030.D

Analysis Method: 8330A Date Collected: 06/15/2020 16:40

Extraction Method: 3535 Date Extracted: 06/30/2020 12:07

Sample wt/vol: 469(mL) Date Analyzed: 07/01/2020 03:09

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 500691 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	*1,3,5-Trinitrobenzene*	*0.21*	*U H*	*0.22*	0.21	*0.090*
99-65-0	*1,3-Dinitrobenzene*	*0.11*	*U H*	*0.12*	0.11	*0.039*
118-96-7	*2,4,6-Trinitrotoluene*	*0.11*	*U H*	*0.12*	0.11	*0.048*
121-14-2	*2,4-Dinitrotoluene*	*0.085*	*U H*	*0.11*	0.085	*0.029*
606-20-2	*2,6-Dinitrotoluene*	*0.085*	*U H Q*	*0.11*	0.085	*0.043*
35572-78-2	*2-Amino-4,6-dinitrotoluene*	*0.11*	*U H*	*0.12*	0.11	*0.054*
88-72-2	*2-Nitrotoluene*	*0.21*	*U H*	*0.22*	0.21	*0.091*
99-08-1	*3-Nitrotoluene*	*0.43*	*U H*	*0.43*	0.43	*0.21*
19406-51-0	*4-Amino-2,6-dinitrotoluene*	*0.13*	*U H*	*0.16*	0.13	*0.062*
99-99-0	*4-Nitrotoluene*	*0.43*	*U M H*	*0.44*	0.43	*0.11*
2691-41-0	*HMX*	*0.39*	*M H*	*0.22*	0.21	*0.093*
5755-27-1	*MNX*	*0.43*	*U H*	*2.1*	0.43	*0.16*
98-95-3	*Nitrobenzene*	*0.21*	*U H*	*0.22*	0.21	*0.097*
121-82-4	*RDX*	*0.16*	*J M H*	*0.22*	0.21	*0.055*
479-45-8	*Tetryl*	*0.11*	*U H*	*0.12*	0.11	*0.034*

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	106	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300030.D
Lims ID: 280-137736-B-11-A
Client ID: G0087-20A
Sample Type: Client
Inject. Date: 01-Jul-2020 03:09:01 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-B-11-
Misc. Info.: 280-0092909-030
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 01-Jul-2020 15:06:12 Calib Date: 26-Jun-2020 01:16:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1062

First Level Reviewer: zhangji Date: 01-Jul-2020 14:23:41

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 HMX	1	6.709	6.710	-0.001	3183	0.0370	M
	6 MNX	1		7.386			ND	
	7 RDX	1	7.795	7.783	0.012	1712	0.0147	M
$	9 1,2-Dinitrobenzene	1	8.775	8.757	0.018	29421	0.2129	M
	10 1,3,5-Trinitrobenzene	1		8.930			ND	
	11 1,3-Dinitrobenzene	1		9.583			ND	
	12 Nitrobenzene	1		9.963			ND	
	14 Tetryl	1		10.283			ND	
	16 2,4,6-Trinitrotoluene	1		11.250			ND	
	17 4-Amino-2,6-dinitrotoluene	1		11.423			ND	
	18 2-Amino-4,6-dinitrotoluene	1		11.710			ND	
	19 2,6-Dinitrotoluene	1		11.850			ND	
	20 2,4-Dinitrotoluene	1		12.050			ND	
	21 o-Nitrotoluene	1		12.883			ND	
	22 p-Nitrotoluene	1	13.315	13.323	-0.008	981	0.008681	7M
	23 m-Nitrotoluene	1		13.923			ND	

QC Flag Legend

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

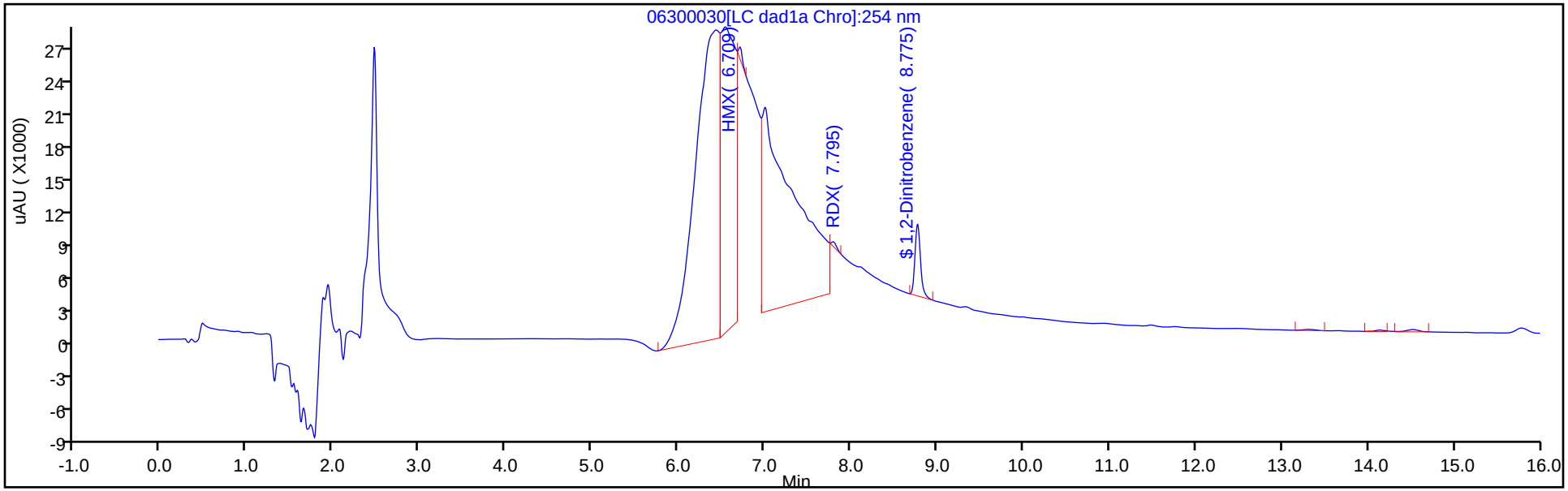
Report Date: 01-Jul-2020 15:06:16 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

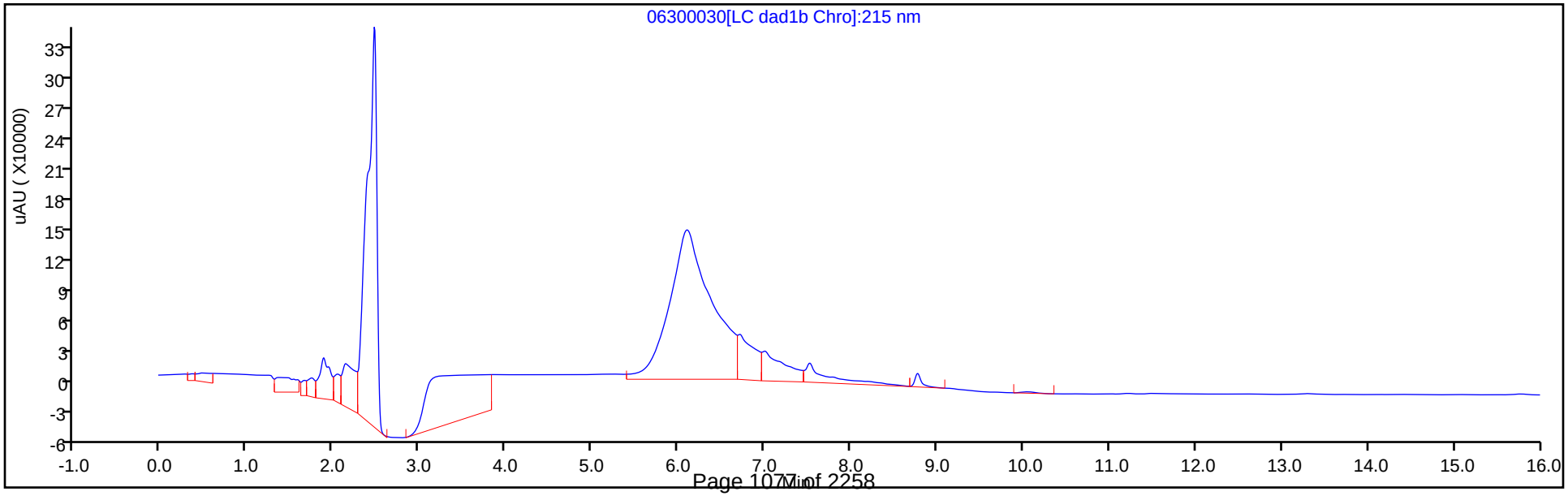
Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300030.d

Injection Date:	01-Jul-2020 03:09:01	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-B-11-A	Lab Sample ID:	280-137736-11	Worklist Smp#:	30
Client ID:	G0087-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300030.D				
Lims ID:	280-137736-B-11-A				
Client ID:	G0087-20A				
Sample Type:	Client				
Inject. Date:	01-Jul-2020 03:09:01	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-B-11-				
Misc. Info.:	280-0092909-030				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	01-Jul-2020 15:06:12	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1062				

First Level Reviewer: zhangji Date: 01-Jul-2020 14:23:41

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.2129	106.43

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

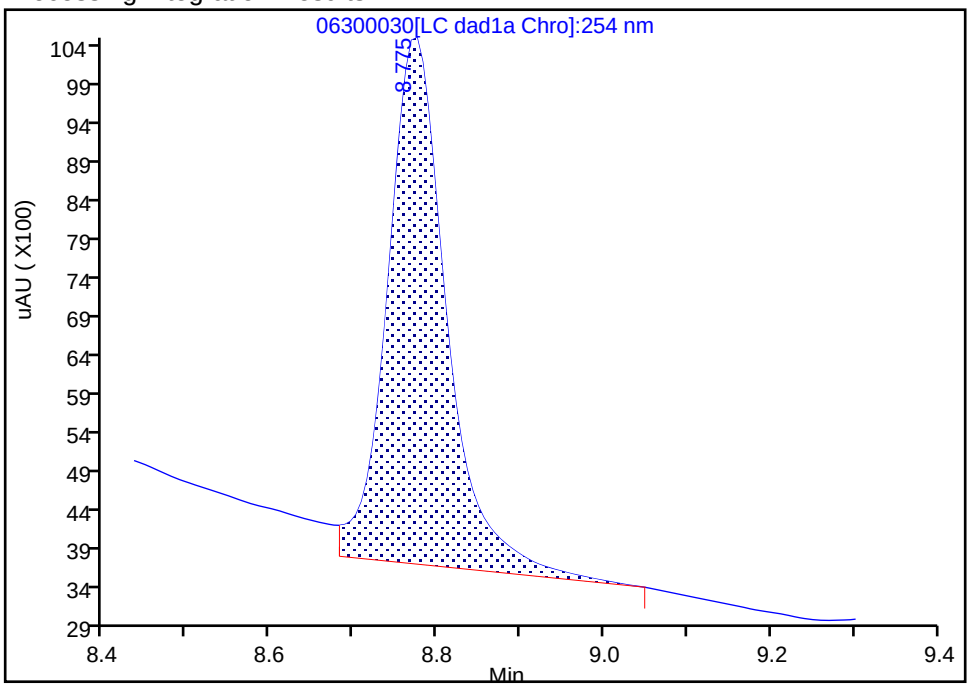
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300030.d				
Injection Date:	01-Jul-2020 03:09:01	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-11-A	Lab Sample ID:	280-137736-11		
Client ID:	G0087-20A				
Operator ID:	JZ	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

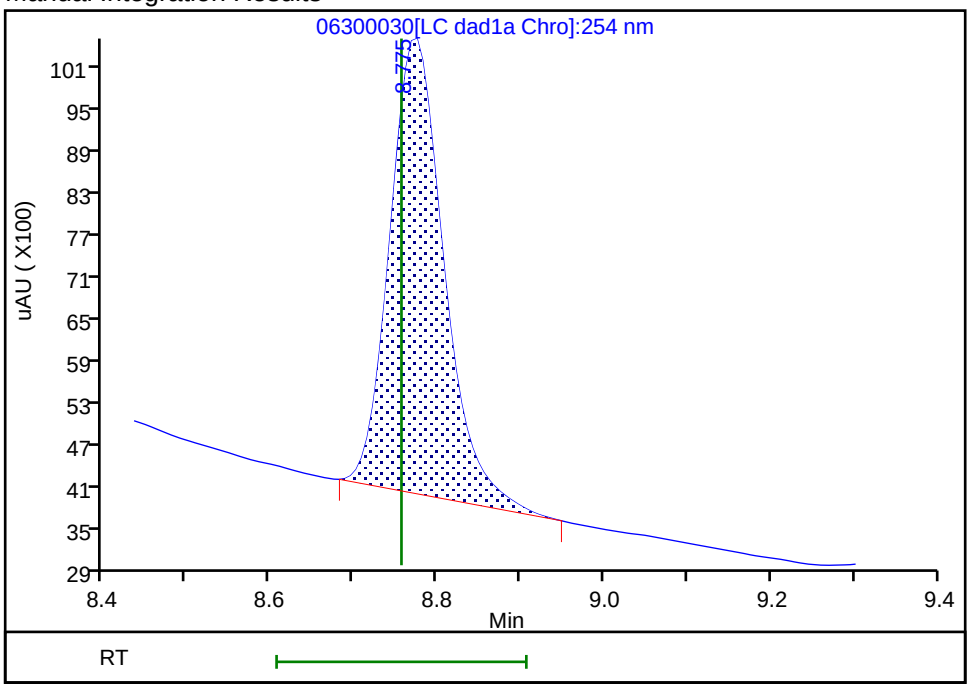
Processing Integration Results

RT: 8.78
Area: 33624
Amount: 0.243278
Amount Units: ug/mL



Manual Integration Results

RT: 8.78
Area: 29421
Amount: 0.212868
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:23:14

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

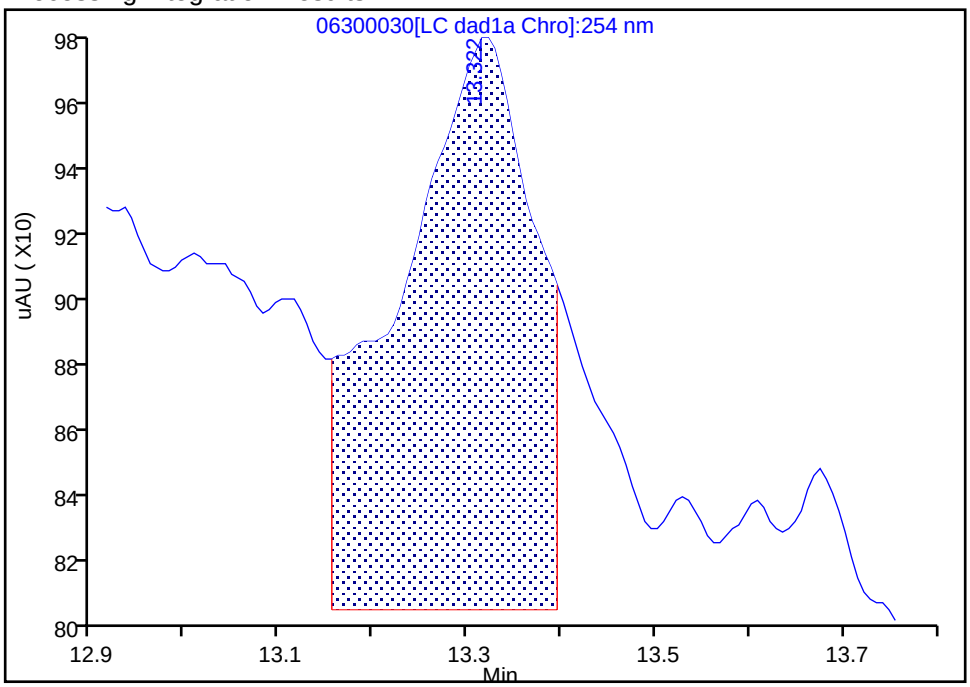
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300030.d				
Injection Date:	01-Jul-2020 03:09:01	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-11-A	Lab Sample ID:	280-137736-11		
Client ID:	G0087-20A				
Operator ID:	JZ	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

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

Signal: 1

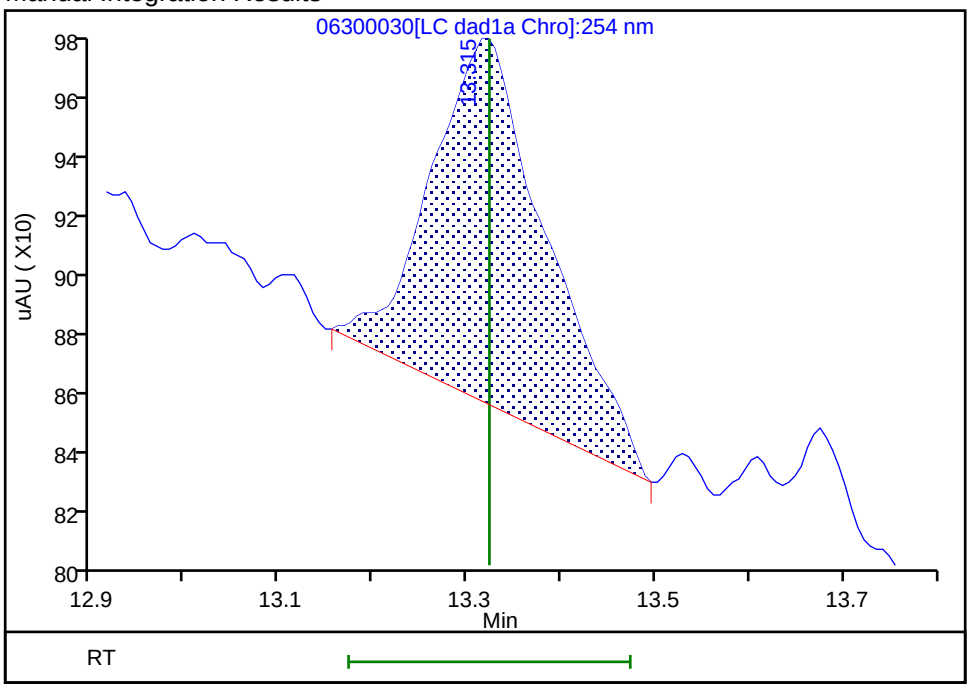
Processing Integration Results

RT: 13.32
Area: 1608
Amount: 0.014229
Amount Units: ug/mL



Manual Integration Results

RT: 13.32
Area: 981
Amount: 0.008681
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:23:25

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

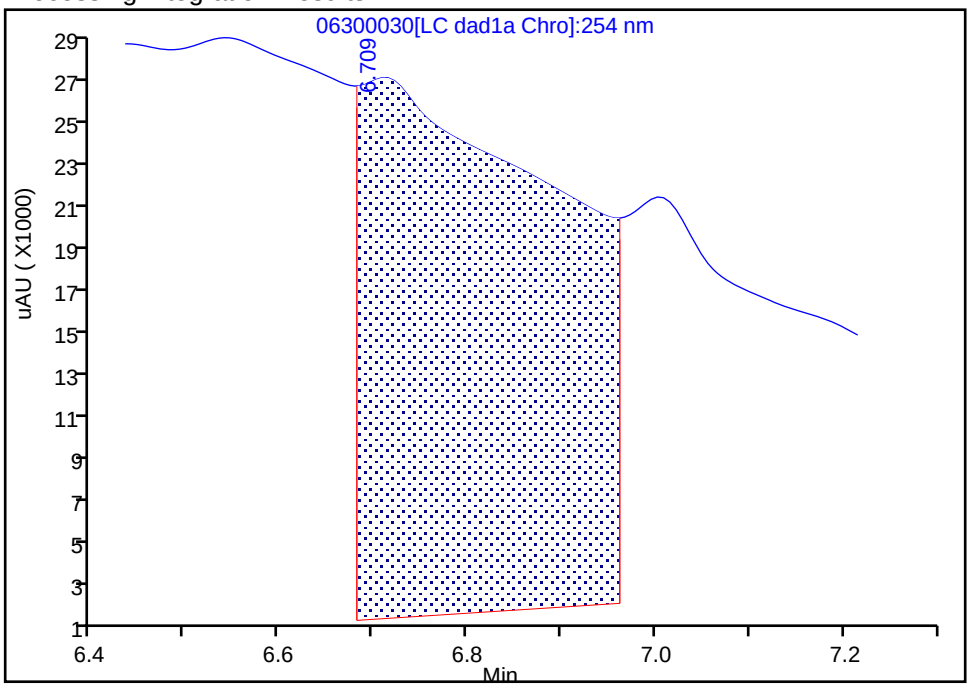
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300030.d				
Injection Date:	01-Jul-2020 03:09:01	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-11-A	Lab Sample ID:	280-137736-11		
Client ID:	G0087-20A				
Operator ID:	JZ	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

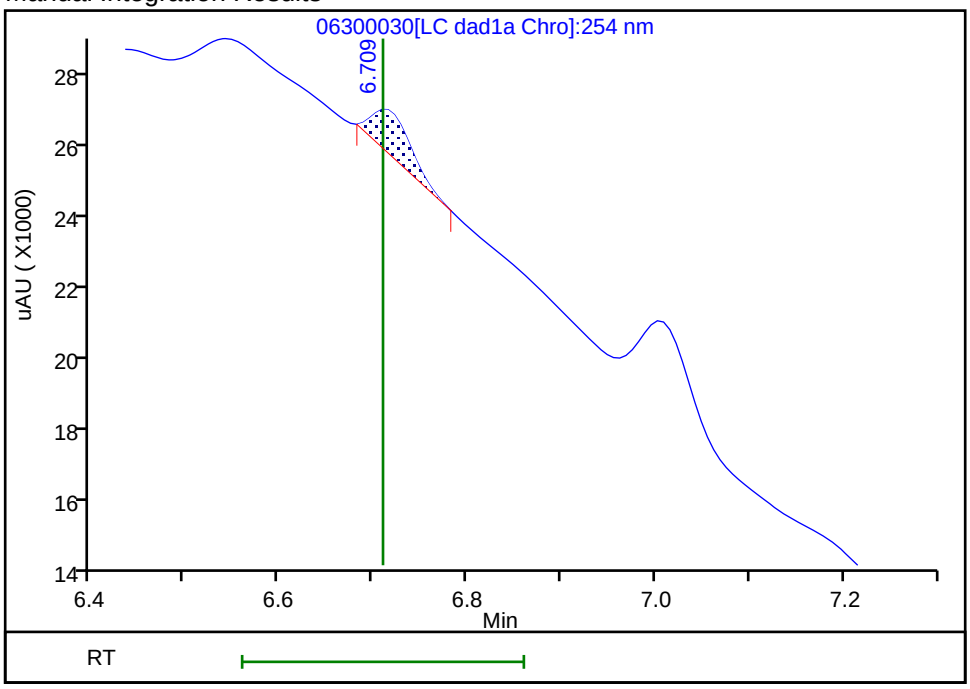
Processing Integration Results

RT: 6.71
Area: 355949
Amount: 4.140763
Amount Units: ug/mL



Manual Integration Results

RT: 6.71
Area: 3183
Amount: 0.037028
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:23:36
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

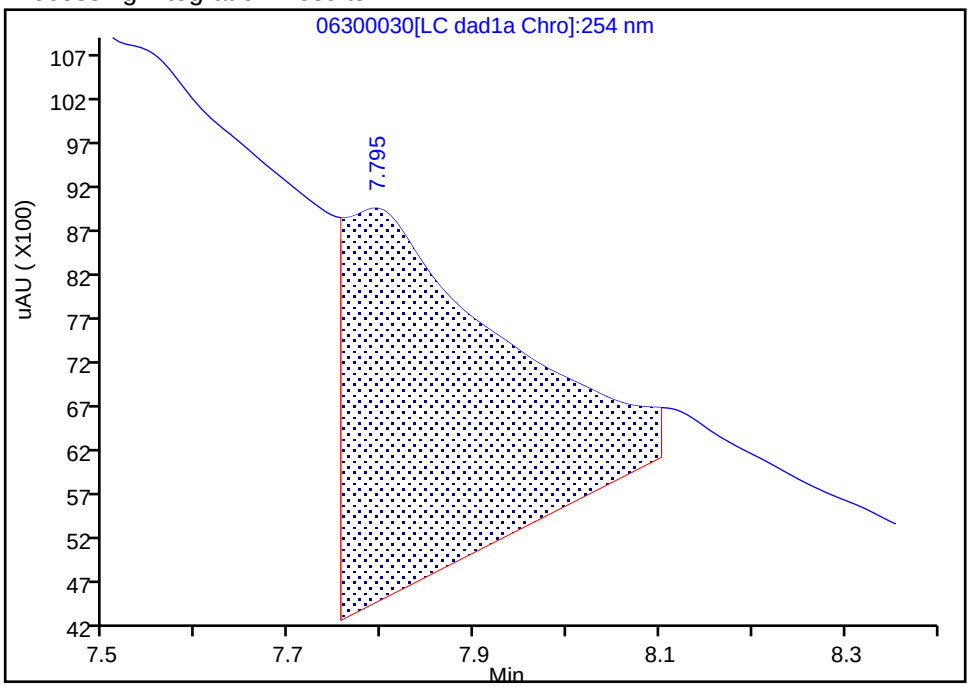
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300030.d				
Injection Date:	01-Jul-2020 03:09:01	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-11-A	Lab Sample ID:	280-137736-11		
Client ID:	G0087-20A				
Operator ID:	JZ	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

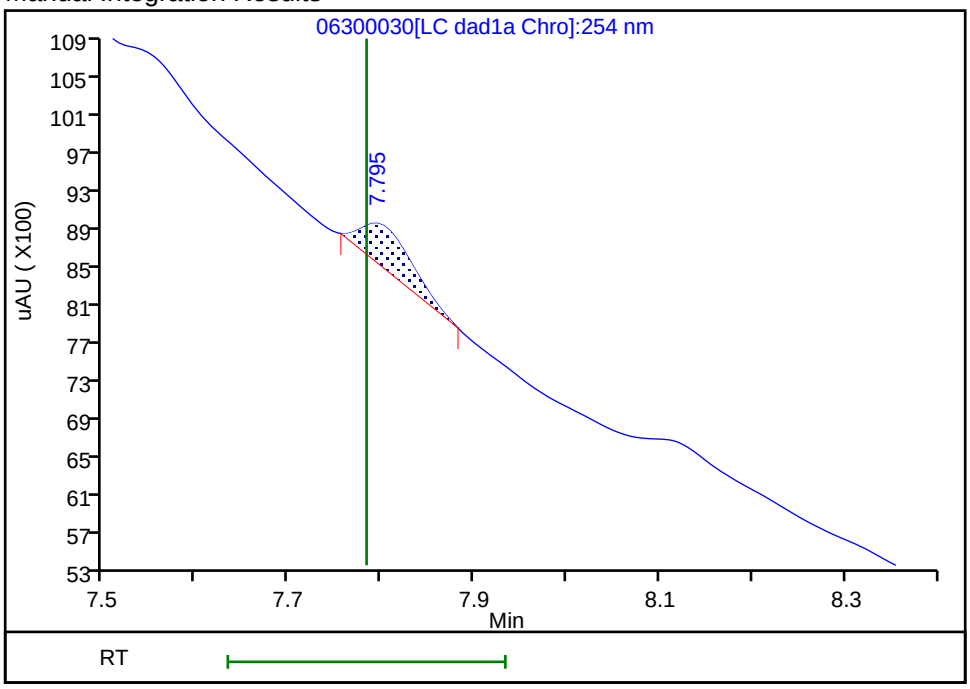
Processing Integration Results

RT: 7.80
Area: 51237
Amount: 0.439376
Amount Units: ug/mL



Manual Integration Results

RT: 7.80
Area: 1712
Amount: 0.014681
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:23:32

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0087-20A RE Lab Sample ID: 280-137736-11 RE

Matrix: Water Lab File ID: 07010015.D

Analysis Method: 8330A Date Collected: 06/15/2020 16:40

Extraction Method: 3535 Date Extracted: 06/30/2020 12:07

Sample wt/vol: 469(mL) Date Analyzed: 07/02/2020 03:01

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

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

Analysis Batch No.: 500847 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	101		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\07010015.D
Lims ID: 280-137736-B-11-A
Client ID: G0087-20A
Sample Type: Client
Inject. Date: 02-Jul-2020 03:01:35 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-B-11-
Misc. Info.: 280-0092951-015
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 02-Jul-2020 15:28:45 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1059

First Level Reviewer: zhangji Date: 02-Jul-2020 15:21:16

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1	7.252	7.244	0.008	9236	0.0221	
7 MNX	1		7.943			ND	
8 RDX	1	9.492	9.477	0.015	3013	0.0123	M
9 Nitrobenzene	1		12.370			ND	
$ 10 1,2-Dinitrobenzene	1	13.426	13.417	0.009	57751	0.2017	
12 1,3-Dinitrobenzene	1		15.943			ND	
14 o-Nitrotoluene	1		16.863			ND	U
15 p-Nitrotoluene	1		17.150			ND	
16 4-Amino-2,6-dinitrotoluene	1	17.692	17.630	0.062	2148	0.006222	M
17 m-Nitrotoluene	1		18.083			ND	
18 2-Amino-4,6-dinitrotoluene	1		18.590			ND	U
19 1,3,5-Trinitrobenzene	1		19.270			ND	
20 2,6-Dinitrotoluene	1		20.203			ND	
21 2,4-Dinitrotoluene	1		20.724			ND	
22 Tetryl	1		24.050			ND	
23 2,4,6-Trinitrotoluene	1		25.030			ND	

QC Flag Legend

Review Flags
M - Manually Integrated
U - Marked Undetected

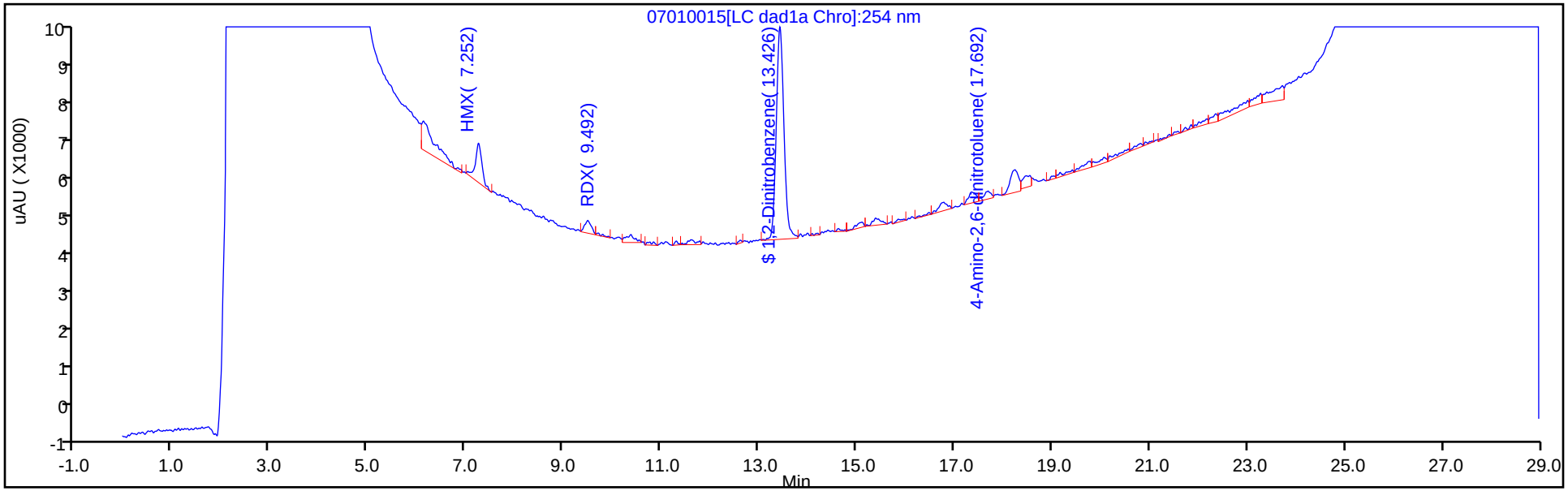
Report Date: 02-Jul-2020 15:28:49 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

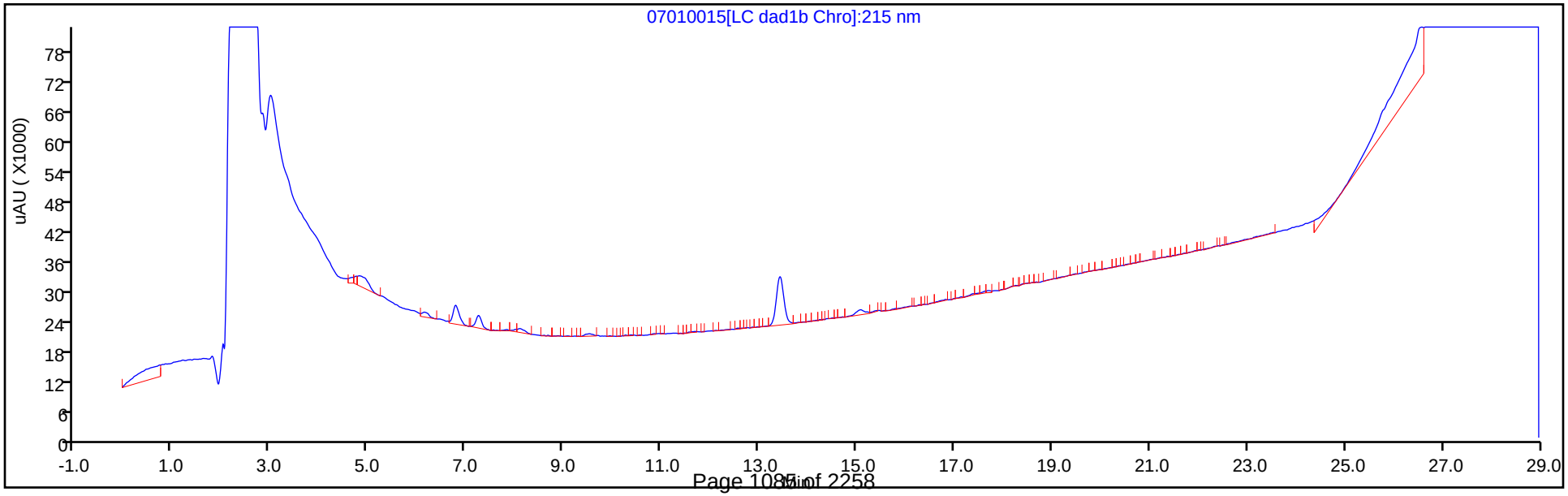
Data File: \\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010015.d

Injection Date:	02-Jul-2020 03:01:35	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137736-B-11-A	Lab Sample ID:	280-137736-11	Worklist Smp#:	15
Client ID:	G0087-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\07010015.D				
Lims ID:	280-137736-B-11-A				
Client ID:	G0087-20A				
Sample Type:	Client				
Inject. Date:	02-Jul-2020 03:01:35	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-B-11-				
Misc. Info.:	280-0092951-015				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	02-Jul-2020 15:28:45	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1059				
First Level Reviewer: zhangji		Date:	02-Jul-2020 15:21:16		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2017	100.84

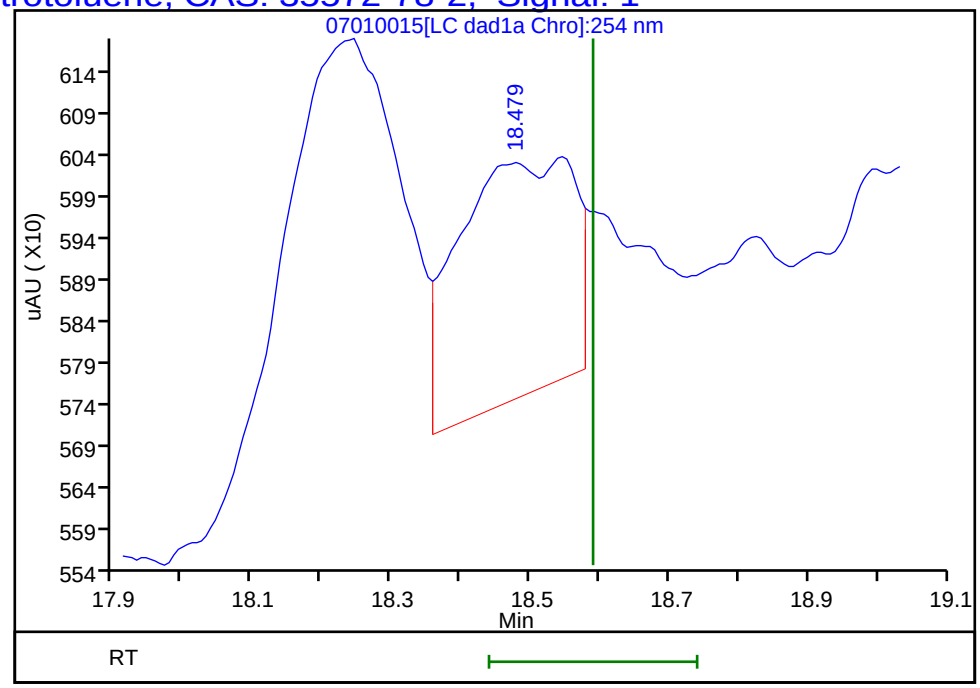
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010015.d				
Injection Date:	02-Jul-2020 03:01:35	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-11-A	Lab Sample ID:	280-137736-11		
Client ID:	G0087-20A				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2, Signal: 1

RT: 18.48
Response: 3295
Amount: 0.007083



Reviewer: zhangji, 02-Jul-2020 15:21:16
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

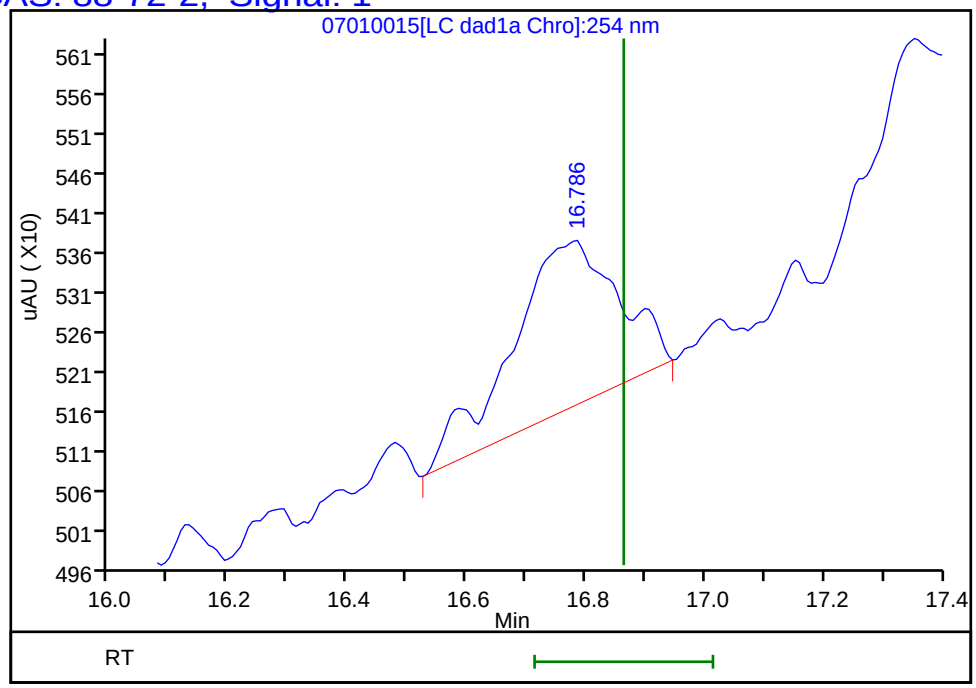
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010015.d				
Injection Date:	02-Jul-2020 03:01:35	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-11-A	Lab Sample ID:	280-137736-11		
Client ID:	G0087-20A				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.79
Response: 2642
Amount: 0.009679



Reviewer: zhangji, 02-Jul-2020 15:21:16
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

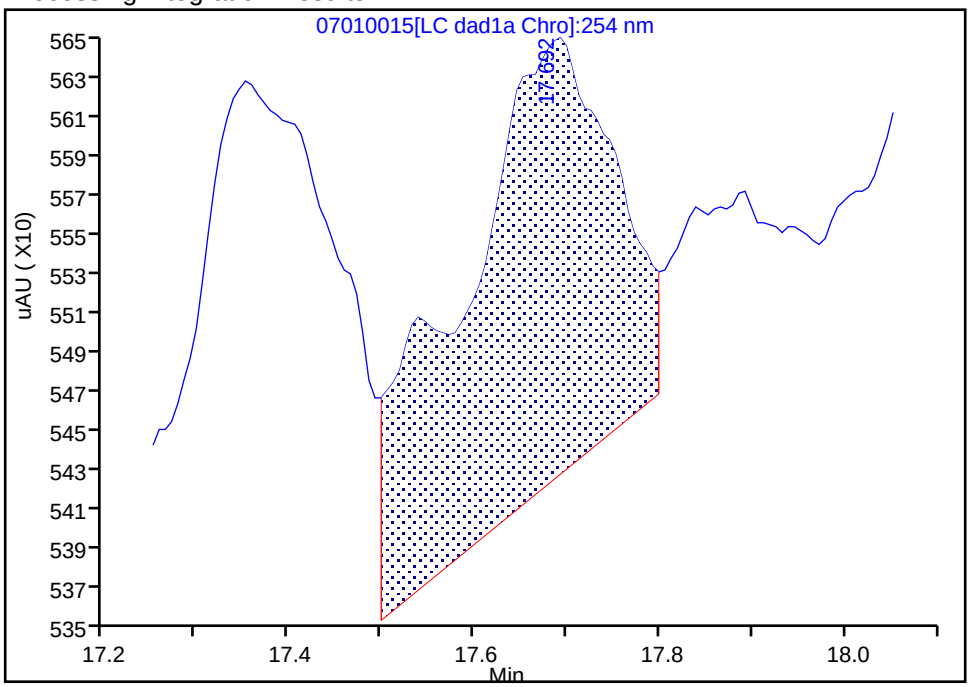
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010015.d				
Injection Date:	02-Jul-2020 03:01:35	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-11-A	Lab Sample ID:	280-137736-11		
Client ID:	G0087-20A				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

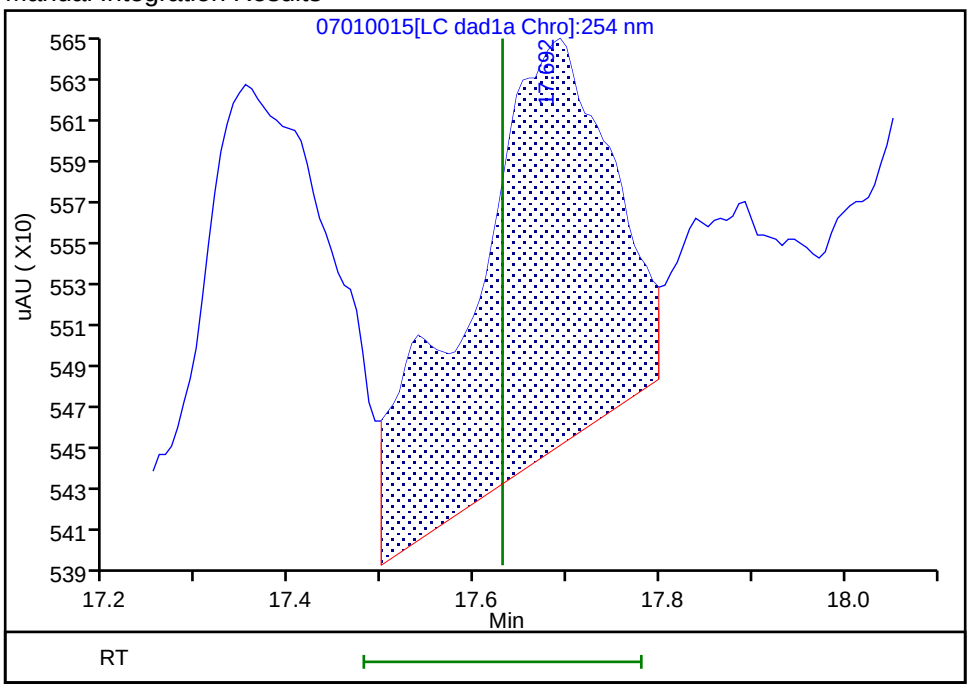
Processing Integration Results

RT: 17.69
Area: 2706
Amount: 0.007838
Amount Units: ug/ml



Manual Integration Results

RT: 17.69
Area: 2148
Amount: 0.006222
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:21:02
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

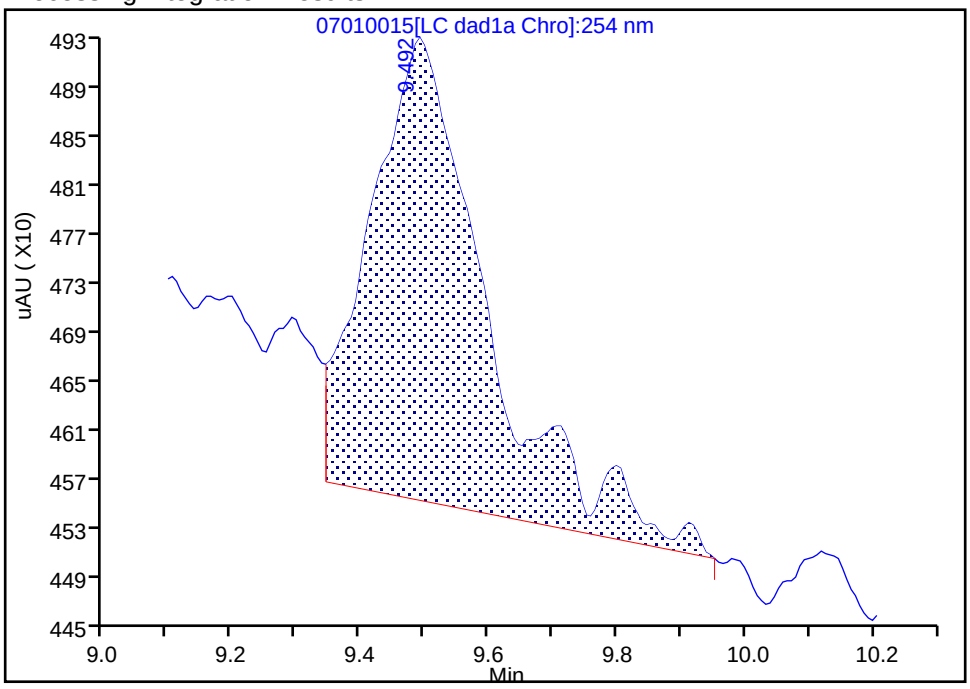
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010015.d				
Injection Date:	02-Jul-2020 03:01:35	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-11-A	Lab Sample ID:	280-137736-11		
Client ID:	G0087-20A				
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

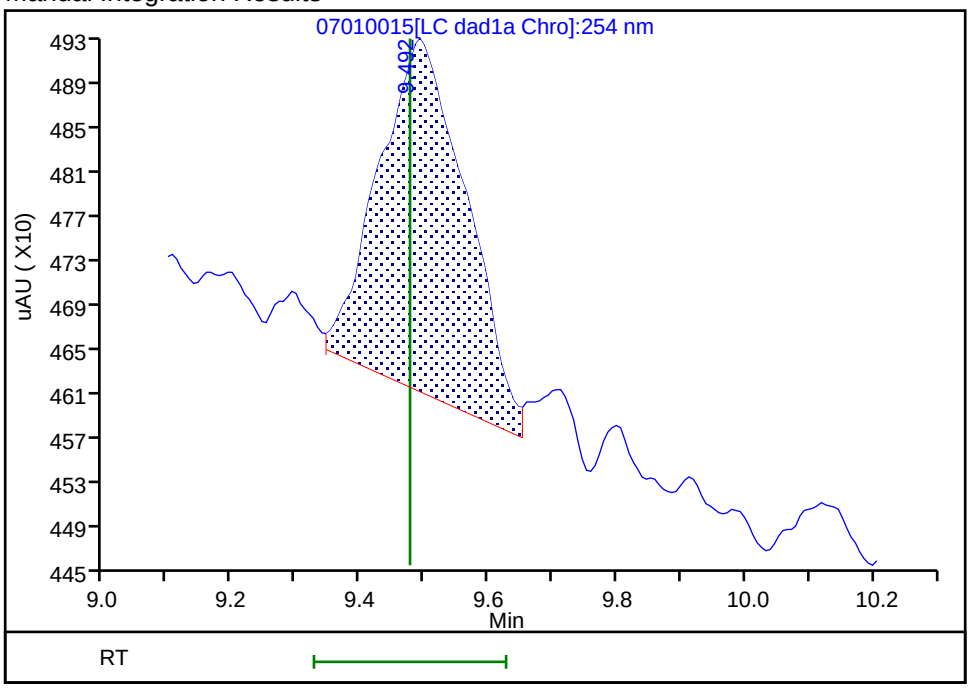
Processing Integration Results

RT: 9.49
Area: 4737
Amount: 0.019385
Amount Units: ug/ml



Manual Integration Results

RT: 9.49
Area: 3013
Amount: 0.012330
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:21:13

Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0088-20A Lab Sample ID: 280-137736-12

Matrix: Water Lab File ID: 06240051.D

Analysis Method: 8330A Date Collected: 06/15/2020 13:40

Extraction Method: 3535 Date Extracted: 06/19/2020 15:47

Sample wt/vol: 478.7(mL) Date Analyzed: 06/25/2020 09:08

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499989 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	4.7		0.22	0.21	0.088
99-65-0	1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.039
118-96-7	2,4,6-Trinitrotoluene	0.63	J1	0.11	0.10	0.047
121-14-2	2,4-Dinitrotoluene	0.084	U	0.10	0.084	0.029
606-20-2	2,6-Dinitrotoluene	0.084	U	0.10	0.084	0.042
35572-78-2	2-Amino-4,6-dinitrotoluene	0.44	Q	0.11	0.10	0.053
88-72-2	2-Nitrotoluene	0.21	U Q	0.22	0.21	0.089
99-08-1	3-Nitrotoluene	0.42	U Q	0.42	0.42	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	0.44	Q	0.16	0.13	0.060
99-99-0	4-Nitrotoluene	0.42	U M Q	0.43	0.42	0.10
2691-41-0	HMX	0.21	U	0.22	0.21	0.091
5755-27-1	MNX	0.42	U M	2.1	0.42	0.16
98-95-3	Nitrobenzene	0.21	U	0.22	0.21	0.095
121-82-4	RDX	0.21	U	0.22	0.21	0.054
479-45-8	Tetryl	0.10	U M	0.11	0.10	0.033

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	88		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240051.D
Lims ID: 280-137736-A-12-A
Client ID: G0088-20A
Sample Type: Client
Inject. Date: 25-Jun-2020 09:08:41 ALS Bottle#: 51 Worklist Smp#: 51
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-12-
Misc. Info.: 280-0092716-051
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:09:52 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:17:14

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 HMX	1		6.712			ND	
	6 MNX	1		7.384			ND	U
	7 RDX	1		7.785			ND	
$	9 1,2-Dinitrobenzene	1	8.728	8.738	-0.010	24254	0.1755	
	10 1,3,5-Trinitrobenzene	1	8.915	8.918	-0.003	104482	0.4537	
	11 1,3-Dinitrobenzene	1		9.565			ND	
	12 Nitrobenzene	1		9.945			ND	
	14 Tetryl	1		10.252			ND	U
	16 2,4,6-Trinitrotoluene	1	11.201	11.225	-0.024	12353	0.0605	
	17 4-Amino-2,6-dinitrotoluene	1	11.361	11.385	-0.024	6283	0.0417	
	18 2-Amino-4,6-dinitrotoluene	1	11.648	11.678	-0.030	8572	0.0423	
	19 2,6-Dinitrotoluene	1		11.818			ND	
	20 2,4-Dinitrotoluene	1		12.018			ND	
	21 o-Nitrotoluene	1		12.845			ND	
	22 p-Nitrotoluene	1		13.272			ND	U
	23 m-Nitrotoluene	1		13.865			ND	

QC Flag Legend

Review Flags
U - Marked Undetected

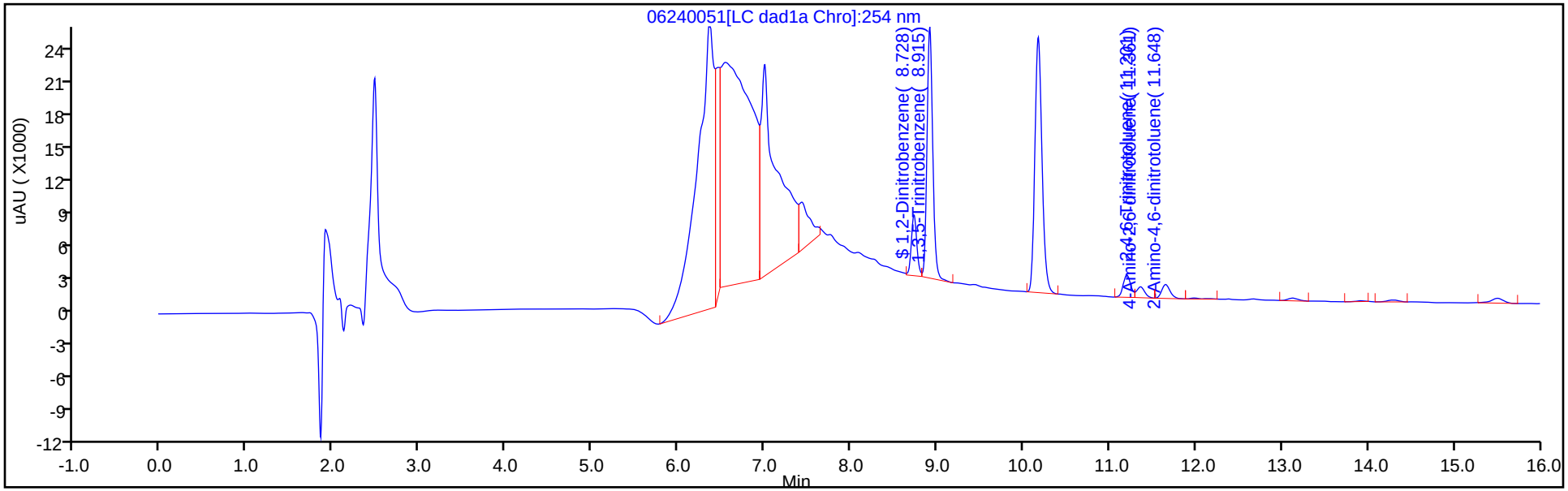
Report Date: 25-Jun-2020 21:09:55 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

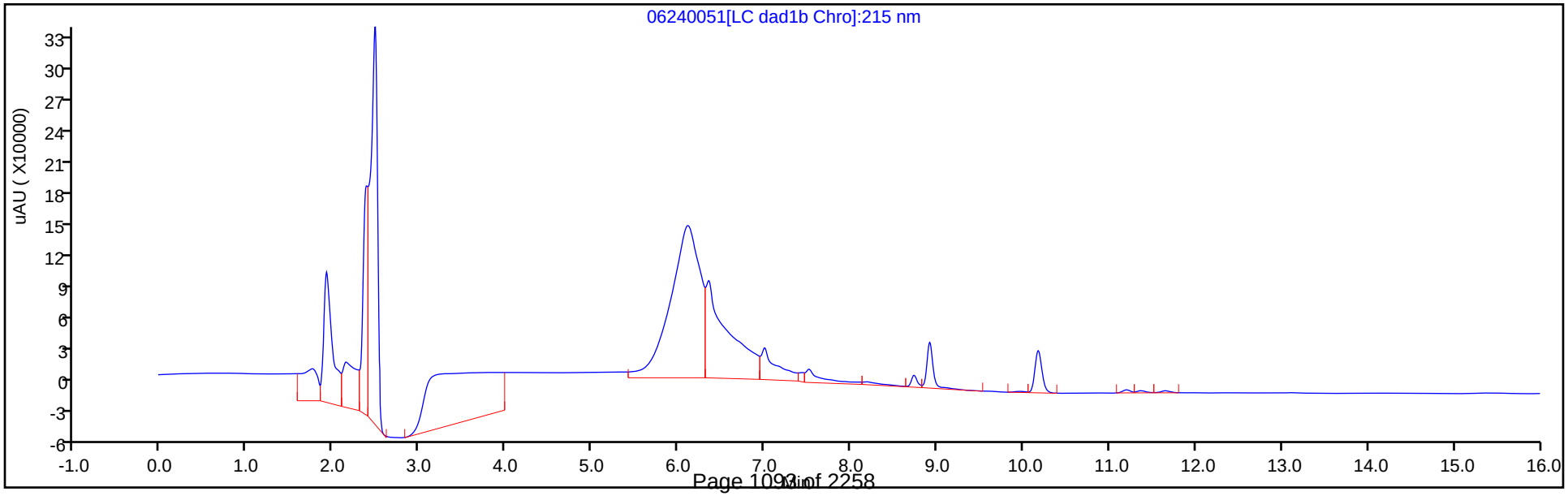
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240051.d

Injection Date:	25-Jun-2020 09:08:41	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-A-12-A	Lab Sample ID:	280-137736-12	Worklist Smp#:	51
Client ID:	G0088-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	51
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240051.D
Lims ID: 280-137736-A-12-A
Client ID: G0088-20A
Sample Type: Client
Inject. Date: 25-Jun-2020 09:08:41 ALS Bottle#: 51 Worklist Smp#: 51
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-12-
Misc. Info.: 280-0092716-051
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:09:52 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:17:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1755	87.74

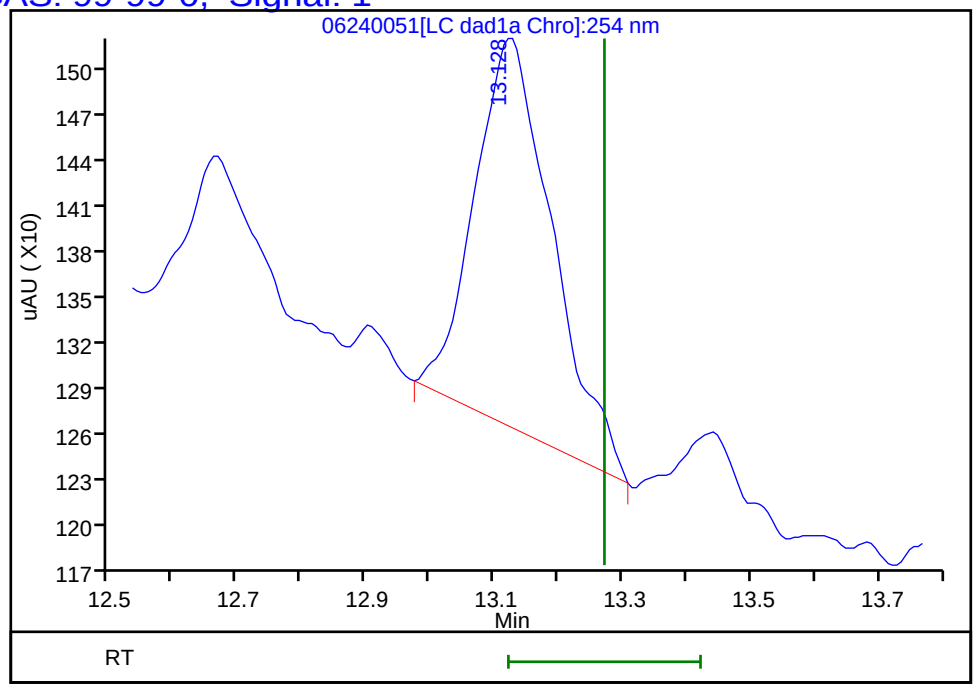
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240051.d				
Injection Date:	25-Jun-2020 09:08:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	51	Worklist Smp#:	51
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

22 p-Nitrotoluene, CAS: 99-99-0, Signal: 1

RT: 13.13
Response: 2125
Amount: 0.018804



Reviewer: zhangji, 25-Jun-2020 16:17:14
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

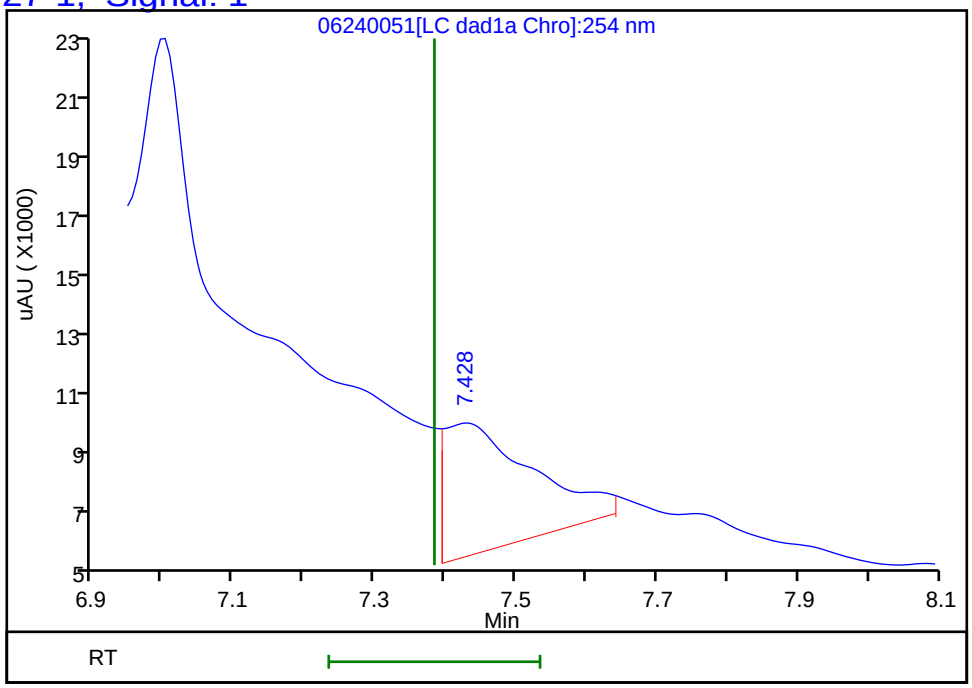
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240051.d				
Injection Date:	25-Jun-2020 09:08:41	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	51	Worklist Smp#:	51
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.43
Response: 35754
Amount: 0.225514



Reviewer: zhangji, 25-Jun-2020 16:17:14
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

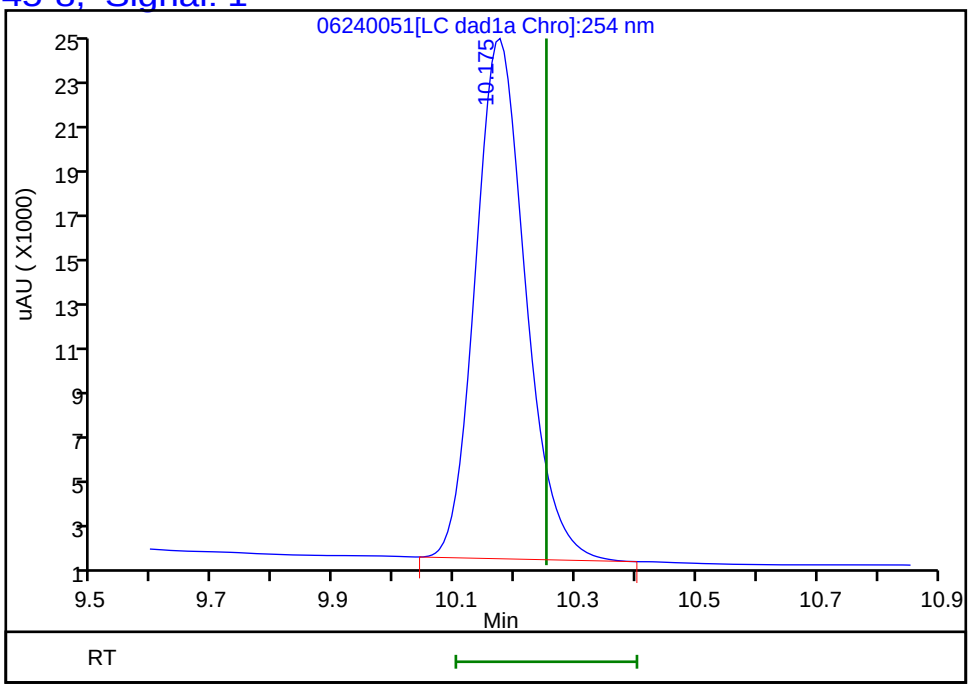
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240051.d

Injection Date:	25-Jun-2020 09:08:41	Instrument ID:	CHHPLC_X3
Lims ID:	280-137736-A-12-A	Lab Sample ID:	280-137736-12
Client ID:	G0088-20A		
Operator ID:	JZ	ALS Bottle#:	51 Worklist Smp#: 51
Injection Vol:	100.0 ul	Dil. Factor:	1.0000
Method:	8330_X3	Limit Group:	GCSV - 8330
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.17
Response: 132817
Amount: 0.750243



Reviewer: zhangji, 25-Jun-2020 16:17:14
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0088-20A Lab Sample ID: 280-137736-12

Matrix: Water Lab File ID: 06260036.D

Analysis Method: 8330A Date Collected: 06/15/2020 13:40

Extraction Method: 3535 Date Extracted: 06/19/2020 15:47

Sample wt/vol: 478.7(mL) Date Analyzed: 06/27/2020 16:45

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

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

Analysis Batch No.: 500327 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
118-96-7	*2,4,6-Trinitrotoluene*	*0.41*	*J1 M*	*0.11*	0.10	*0.047*

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	87		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260036.D
Lims ID: 280-137736-A-12-A
Client ID: G0088-20A
Sample Type: Client
Inject. Date: 27-Jun-2020 16:45:58 ALS Bottle#: 36 Worklist Smp#: 36
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-12-
Misc. Info.: 280-0092796-036
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 01-Jul-2020 16:55:51 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1062

First Level Reviewer: zhangji Date: 27-Jun-2020 17:32:24

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1		7.154			ND	
7 MNX	1		7.919			ND	
8 RDX	1		9.367			ND	U
9 Nitrobenzene	1		12.274			ND	
$ 10 1,2-Dinitrobenzene	1	13.258	13.281	-0.023	50263	0.1747	
12 1,3-Dinitrobenzene	1		15.814			ND	
14 o-Nitrotoluene	1		16.754			ND	U
15 p-Nitrotoluene	1		17.034			ND	
16 4-Amino-2,6-dinitrotoluene	1	17.438	17.474	-0.036	11608	0.0336	M
17 m-Nitrotoluene	1		17.967			ND	
18 2-Amino-4,6-dinitrotoluene	1	18.398	18.407	-0.009	25444	0.0547	
19 1,3,5-Trinitrobenzene	1	19.132	19.147	-0.015	203809	0.4314	
20 2,6-Dinitrotoluene	1		20.074			ND	
21 2,4-Dinitrotoluene	1		20.587			ND	
22 Tetryl	1		23.887			ND	
23 2,4,6-Trinitrotoluene	1	24.918	24.907	0.011	19064	0.0396	M

QC Flag Legend

Review Flags
M - Manually Integrated
U - Marked Undetected

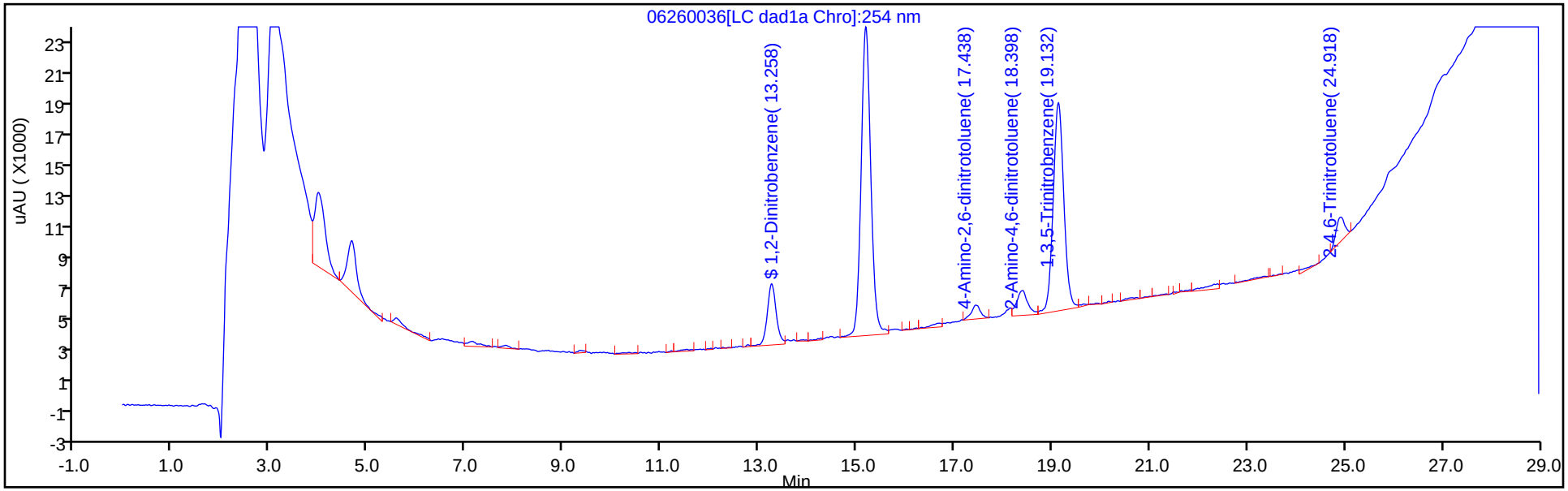
Report Date: 01-Jul-2020 16:56:02 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

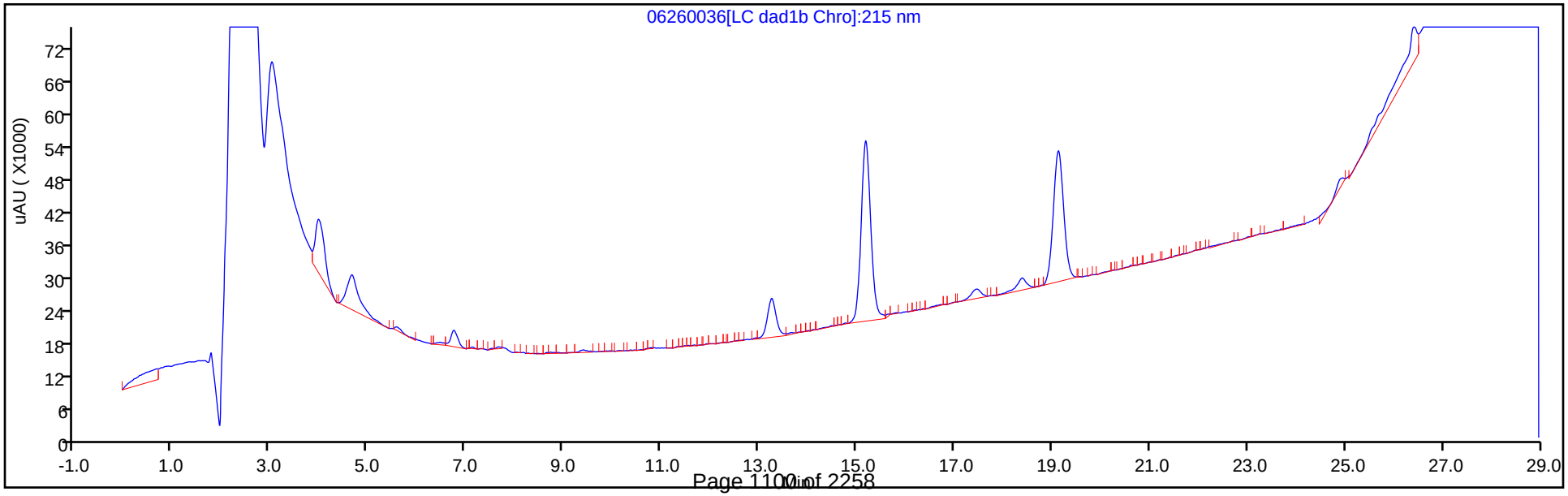
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260036.d

Injection Date:	27-Jun-2020 16:45:58	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137736-A-12-A	Lab Sample ID:	280-137736-12	Worklist Smp#:	36
Client ID:	G0088-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260036.D				
Lims ID:	280-137736-A-12-A				
Client ID:	G0088-20A				
Sample Type:	Client				
Inject. Date:	27-Jun-2020 16:45:58	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-12-				
Misc. Info.:	280-0092796-036				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	01-Jul-2020 16:55:51	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1062				
First Level Reviewer: zhangji		Date:	27-Jun-2020 17:32:24		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1747	87.34

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

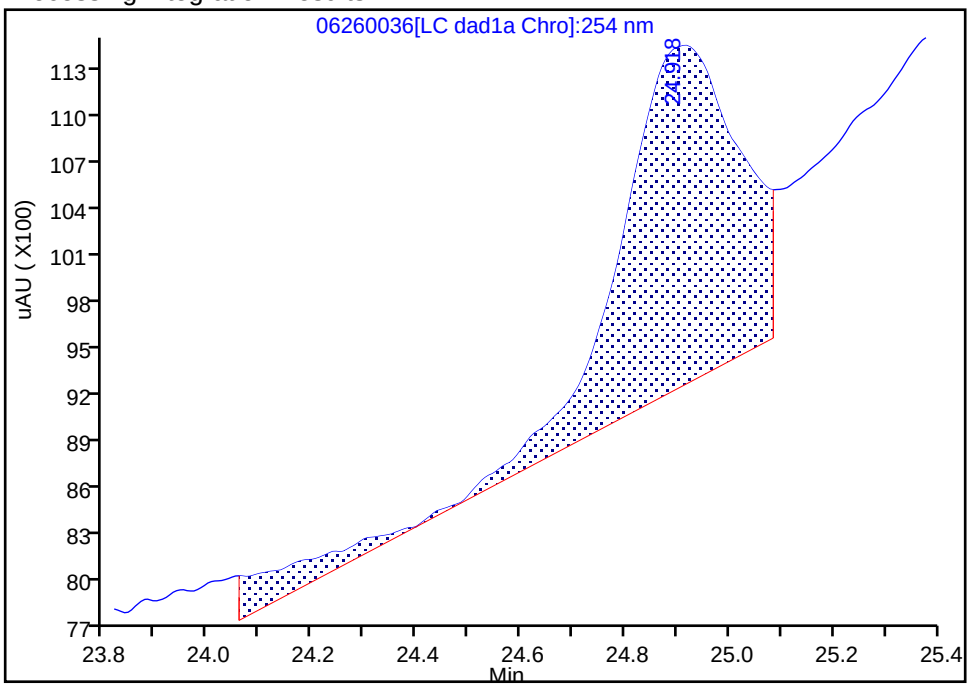
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260036.d				
Injection Date:	27-Jun-2020 16:45:58	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

23 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

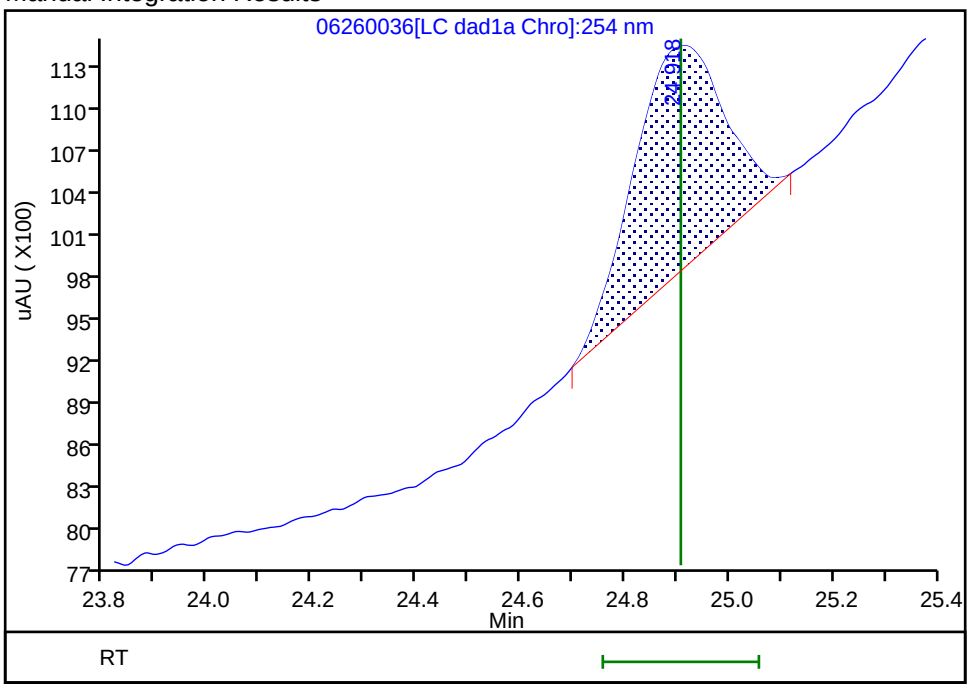
Processing Integration Results

RT: 24.92
Area: 37183
Amount: 0.084721
Amount Units: ug/ml



Manual Integration Results

RT: 24.92
Area: 19064
Amount: 0.039606
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 17:32:10

Audit Action: Manually Integrated Audit Reason: Baseline

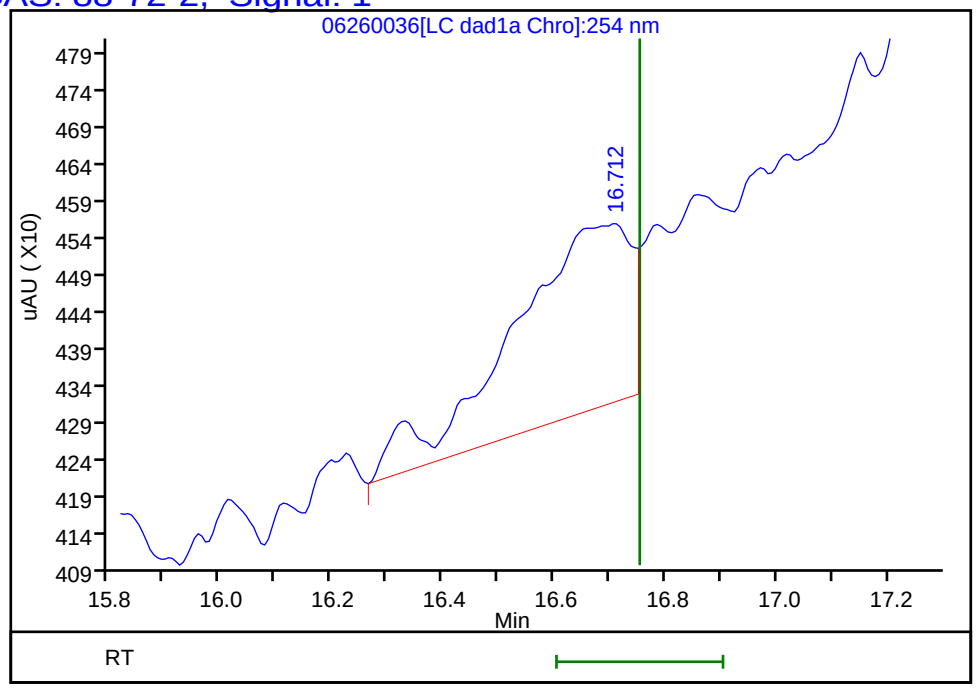
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260036.d				
Injection Date:	27-Jun-2020 16:45:58	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.71
Response: 3756
Amount: 0.013760



Reviewer: zhangji, 27-Jun-2020 17:32:24
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

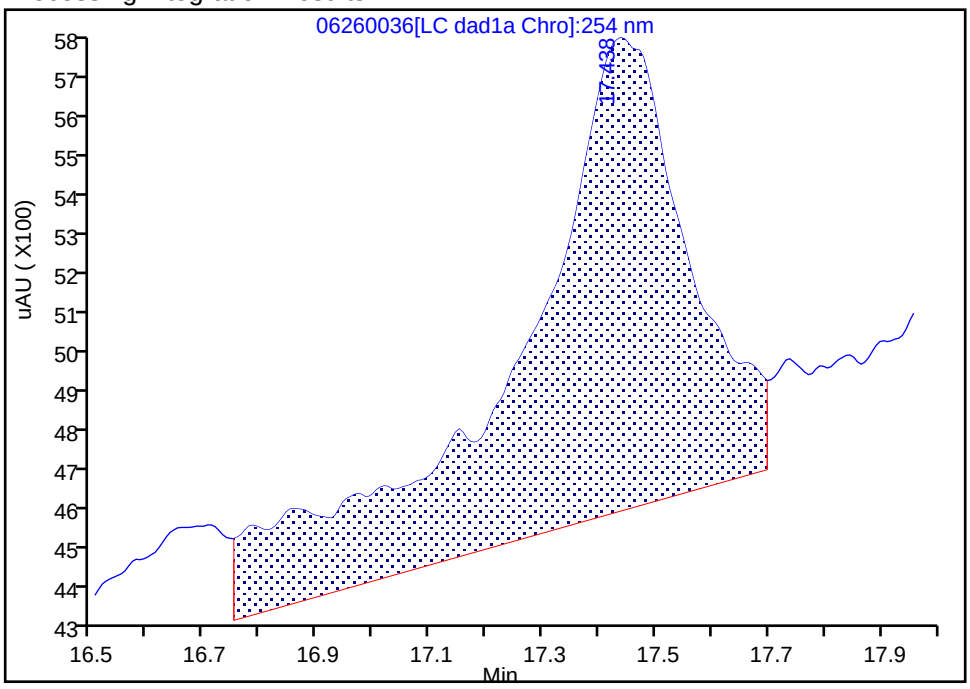
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260036.d				
Injection Date:	27-Jun-2020 16:45:58	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

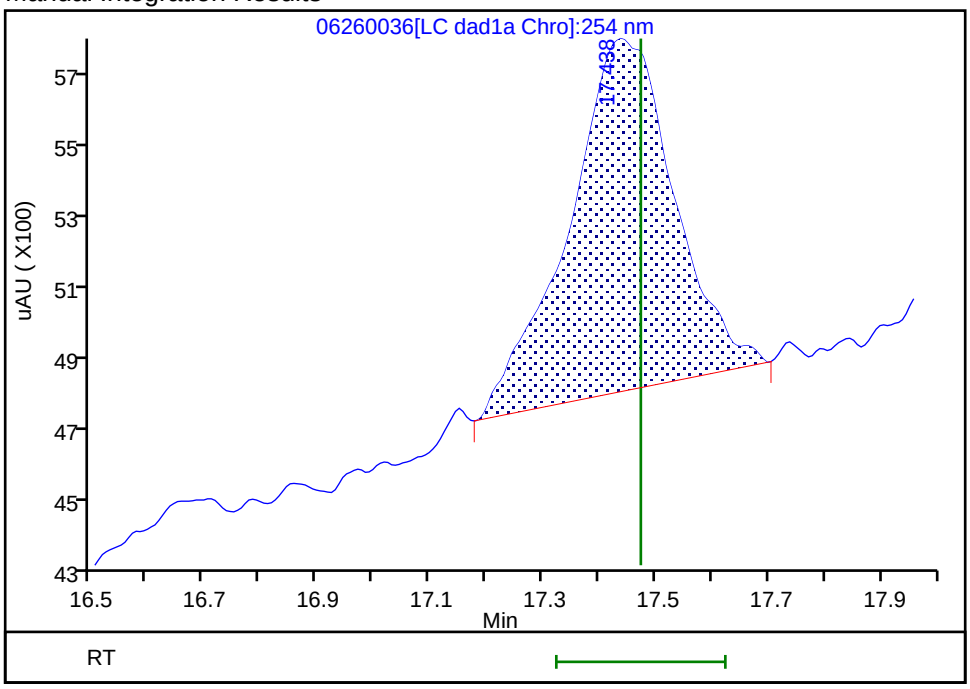
Processing Integration Results

RT: 17.44
Area: 24602
Amount: 0.071262
Amount Units: ug/ml



Manual Integration Results

RT: 17.44
Area: 11608
Amount: 0.033624
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 17:32:19

Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

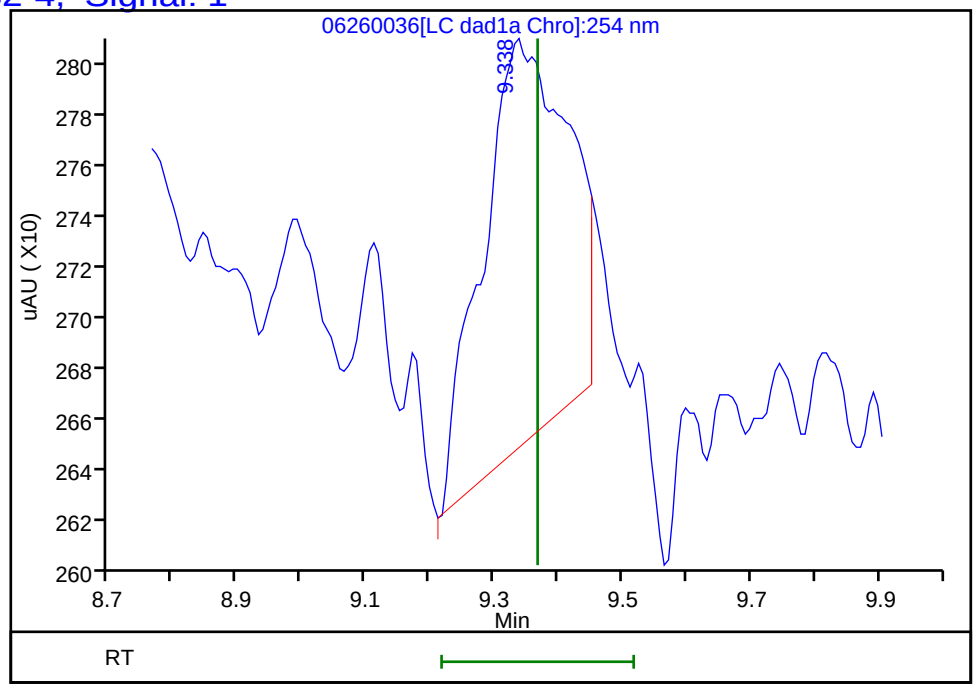
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260036.d

Injection Date:	27-Jun-2020 16:45:58	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	36	Worklist Smp#:	36
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

8 RDX, CAS: 121-82-4, Signal: 1

RT: 9.34
Response: 1431
Amount: 0.005856



Reviewer: zhangji, 27-Jun-2020 17:32:24

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0088-20A RE Lab Sample ID: 280-137736-12 RE

Matrix: Water Lab File ID: 06300031.D

Analysis Method: 8330A Date Collected: 06/15/2020 13:40

Extraction Method: 3535 Date Extracted: 06/30/2020 12:07

Sample wt/vol: 473.8(mL) Date Analyzed: 07/01/2020 03:32

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 500691 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	*1,3,5-Trinitrobenzene*	*5.5*	*M H*	*0.22*	0.21	*0.089*
99-65-0	*1,3-Dinitrobenzene*	*0.11*	*U H*	*0.12*	0.11	*0.039*
118-96-7	*2,4,6-Trinitrotoluene*	*0.72*	*M H*	*0.12*	0.11	*0.047*
121-14-2	*2,4-Dinitrotoluene*	*0.084*	*U M H*	*0.11*	0.084	*0.029*
606-20-2	*2,6-Dinitrotoluene*	*0.084*	*U M H Q*	*0.11*	0.084	*0.042*
35572-78-2	*2-Amino-4,6-dinitrotoluene*	*0.11*	*U H*	*0.12*	0.11	*0.054*
88-72-2	*2-Nitrotoluene*	*0.21*	*U M H*	*0.22*	0.21	*0.090*
99-08-1	*3-Nitrotoluene*	*0.42*	*U M H*	*0.42*	0.42	*0.21*
19406-51-0	*4-Amino-2,6-dinitrotoluene*	*0.13*	*U M H*	*0.16*	0.13	*0.061*
2691-41-0	*HMX*	*0.21*	*U H*	*0.22*	0.21	*0.092*
5755-27-1	*MNX*	*0.42*	*U M H*	*2.1*	0.42	*0.16*
98-95-3	*Nitrobenzene*	*0.21*	*U H*	*0.22*	0.21	*0.096*
121-82-4	*RDX*	*0.21*	*U H*	*0.22*	0.21	*0.054*
479-45-8	*Tetryl*	*0.11*	*U M H*	*0.12*	0.11	*0.034*

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	107	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300031.D
Lims ID: 280-137736-B-12-A
Client ID: G0088-20A
Sample Type: Client
Inject. Date: 01-Jul-2020 03:32:02 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-B-12-
Misc. Info.: 280-0092909-031
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 01-Jul-2020 15:06:12 Calib Date: 26-Jun-2020 01:16:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1062

First Level Reviewer: zhangji Date: 01-Jul-2020 14:58:04

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 HMX	1		6.710			ND	
	6 MNX	1		7.386			ND	U
	7 RDX	1		7.783			ND	
$	9 1,2-Dinitrobenzene	1	8.776	8.757	0.019	29456	0.2131	M
	10 1,3,5-Trinitrobenzene	1	8.949	8.930	0.019	119348	0.5182	M
	11 1,3-Dinitrobenzene	1		9.583			ND	
	12 Nitrobenzene	1		9.963			ND	
	14 Tetryl	1		10.283			ND	U
	16 2,4,6-Trinitrotoluene	1	11.296	11.250	0.046	13957	0.0684	M
	17 4-Amino-2,6-dinitrotoluene	1		11.423			ND	MU
	18 2-Amino-4,6-dinitrotoluene	1		11.710			ND	
	19 2,6-Dinitrotoluene	1		11.850			ND	MU
	20 2,4-Dinitrotoluene	1		12.050			ND	U
	21 o-Nitrotoluene	1		12.883			ND	U
	22 p-Nitrotoluene	1	13.369	13.323	0.046	1745	0.0154	M
	23 m-Nitrotoluene	1		13.923			ND	U

QC Flag Legend

Review Flags
M - Manually Integrated
U - Marked Undetected

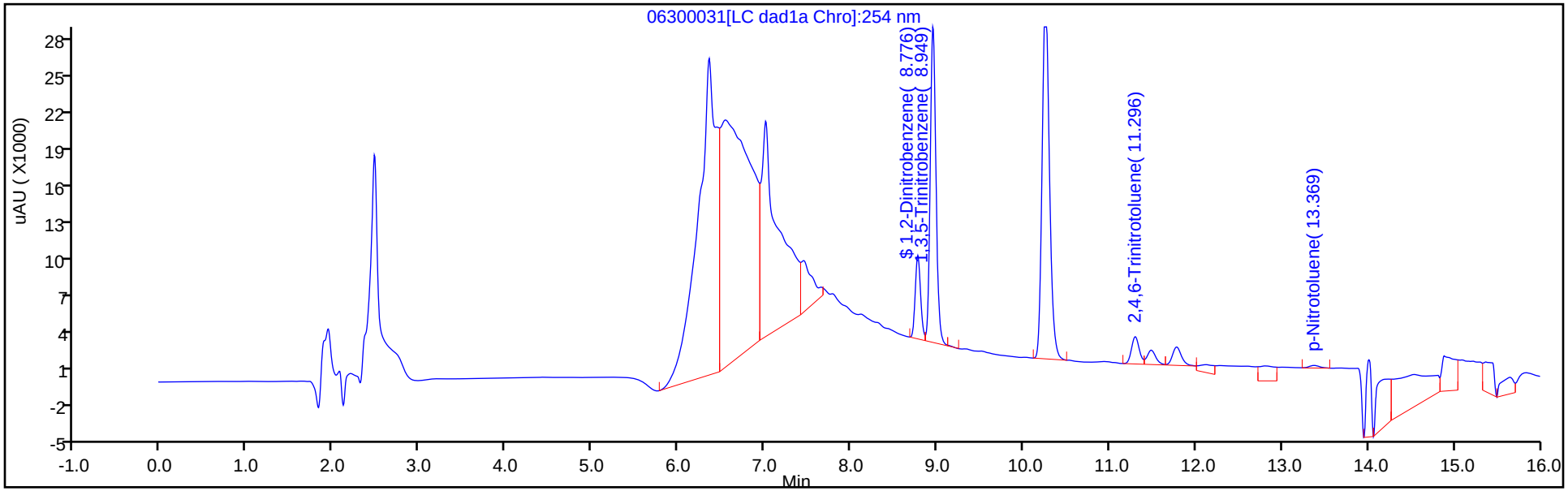
Report Date: 01-Jul-2020 15:06:16 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

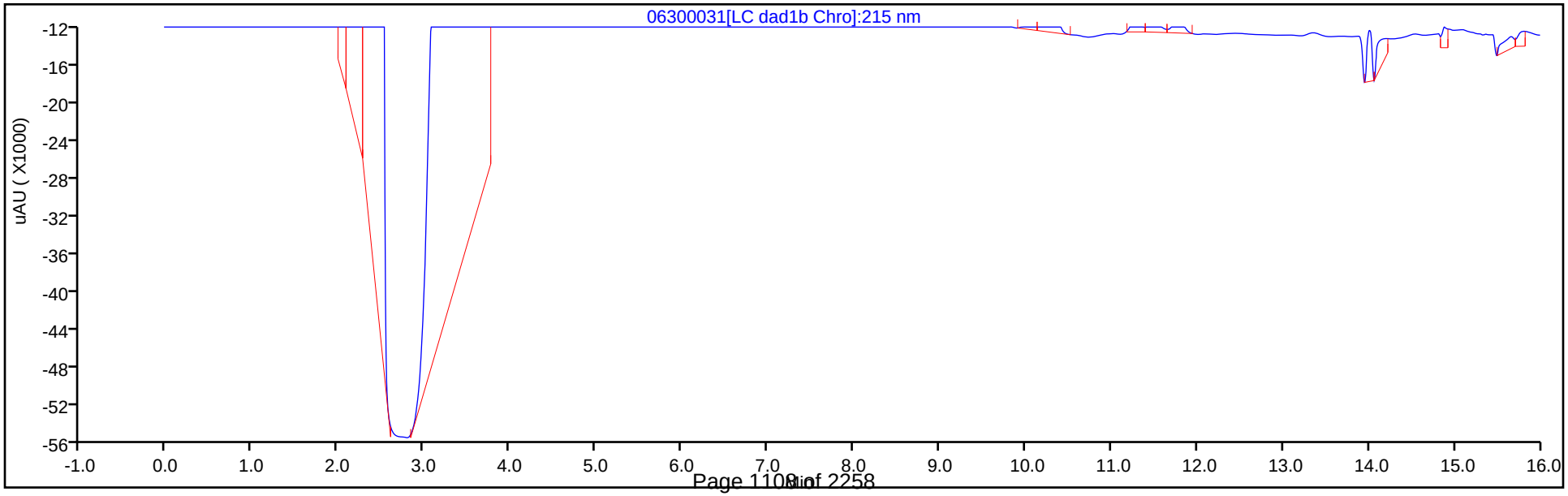
Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300031.d

Injection Date:	01-Jul-2020 03:32:02	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-B-12-A	Lab Sample ID:	280-137736-12	Worklist Smp#:	31
Client ID:	G0088-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300031.D				
Lims ID:	280-137736-B-12-A				
Client ID:	G0088-20A				
Sample Type:	Client				
Inject. Date:	01-Jul-2020 03:32:02	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-B-12-				
Misc. Info.:	280-0092909-031				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	01-Jul-2020 15:06:12	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1062				

First Level Reviewer: zhangji Date: 01-Jul-2020 14:58:04

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.2131	106.56

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

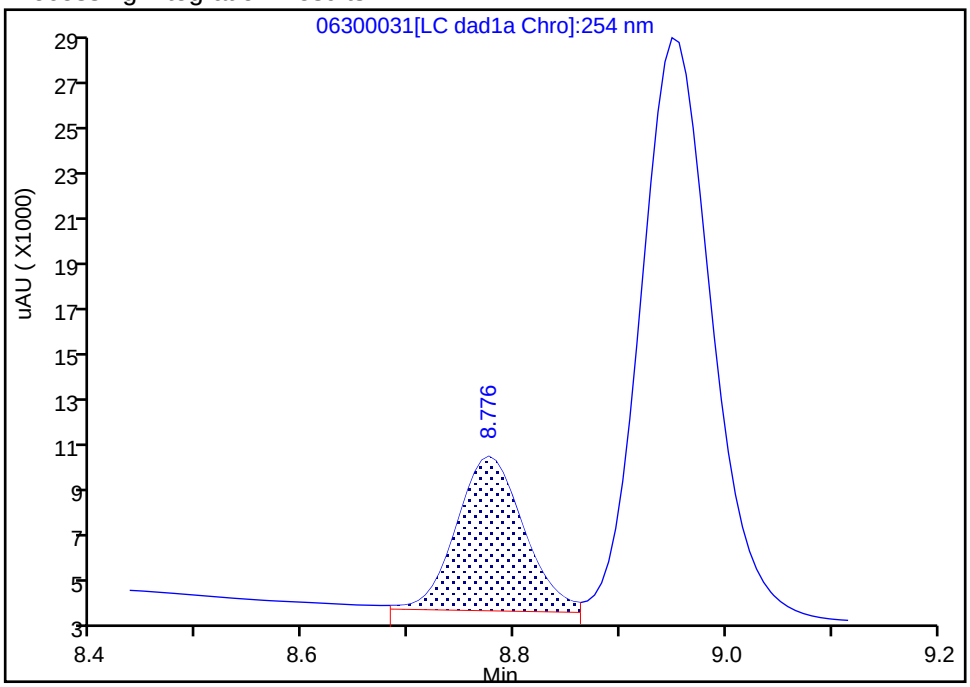
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300031.d				
Injection Date:	01-Jul-2020 03:32:02	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

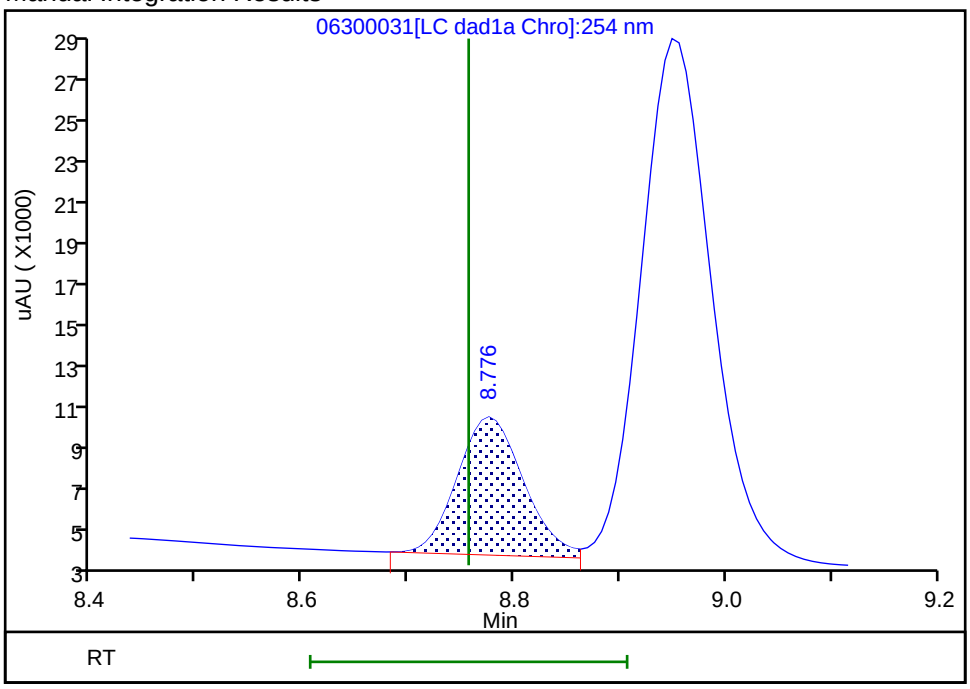
Processing Integration Results

RT: 8.78
Area: 30293
Amount: 0.219177
Amount Units: ug/mL



Manual Integration Results

RT: 8.78
Area: 29456
Amount: 0.213122
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:24:44
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

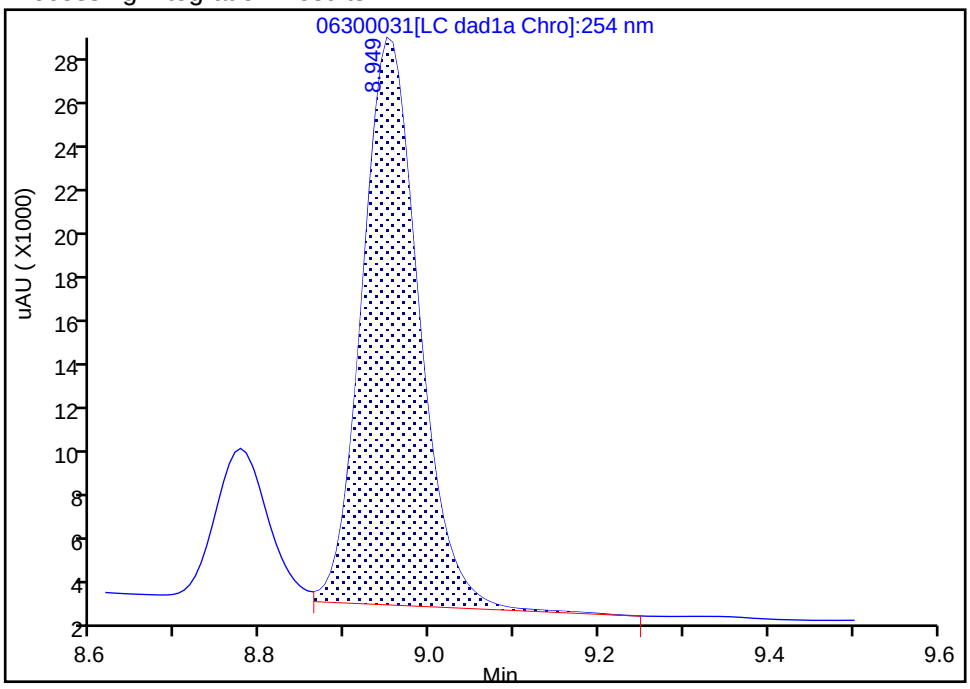
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300031.d				
Injection Date:	01-Jul-2020 03:32:02	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

10 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

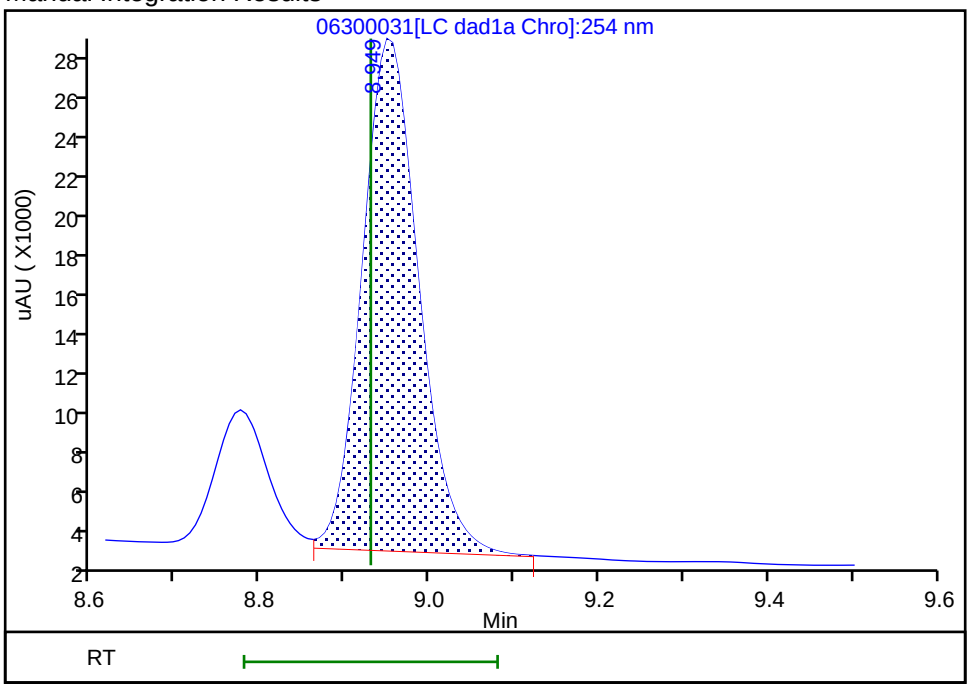
Processing Integration Results

RT: 8.95
Area: 119893
Amount: 0.520575
Amount Units: ug/mL



Manual Integration Results

RT: 8.95
Area: 119348
Amount: 0.518208
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:24:46
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

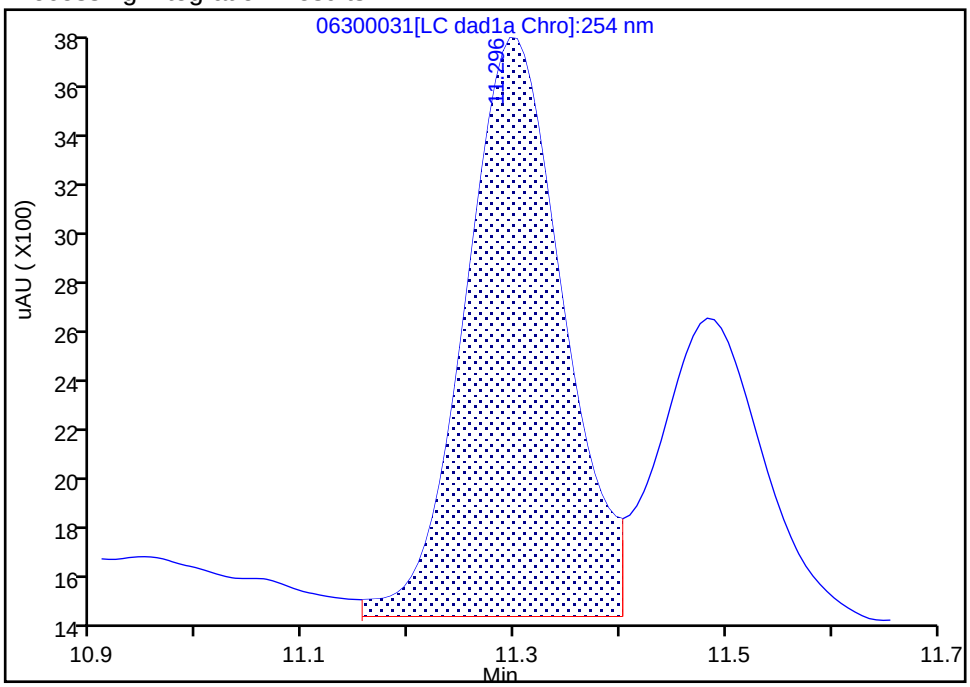
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300031.d				
Injection Date:	01-Jul-2020 03:32:02	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

16 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

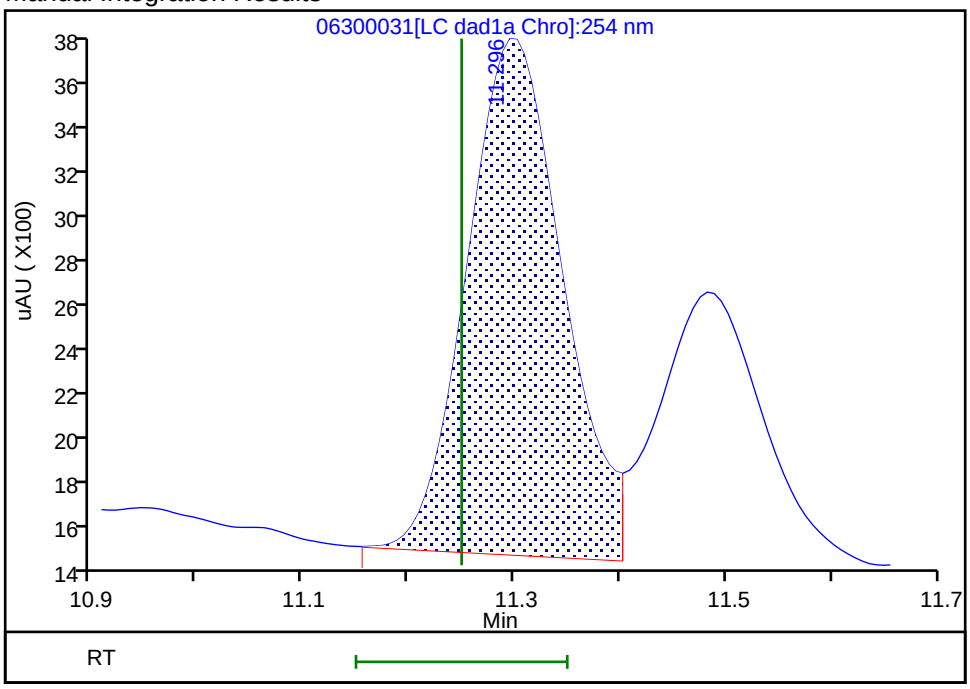
Processing Integration Results

RT: 11.30
Area: 14438
Amount: 0.070764
Amount Units: ug/mL



Manual Integration Results

RT: 11.30
Area: 13957
Amount: 0.068406
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:57:59

Audit Action: Assigned New Baseline Audit Reason: Baseline

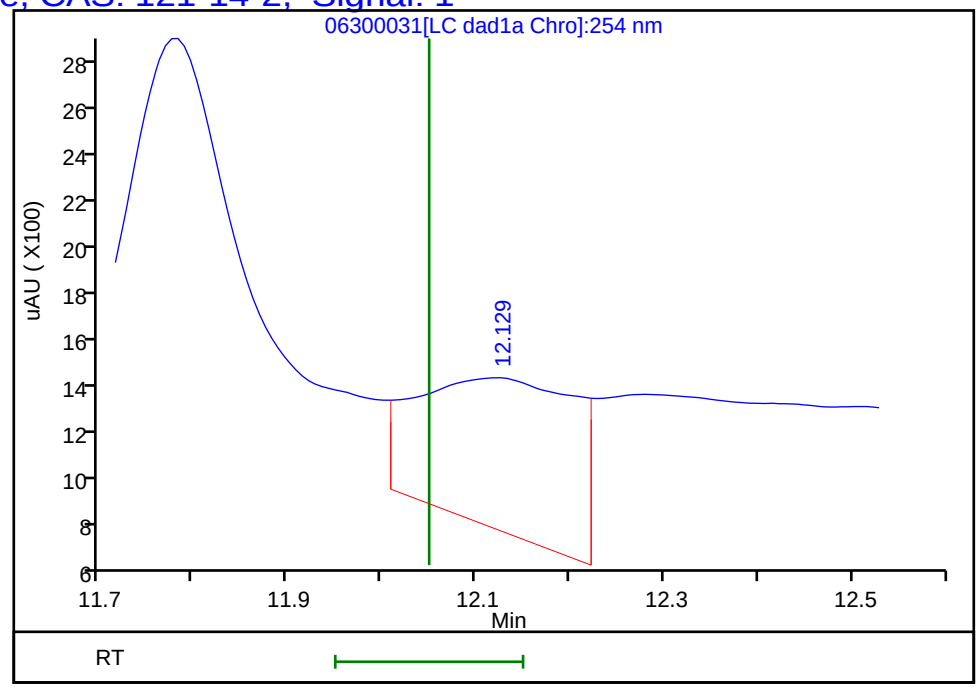
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300031.d				
Injection Date:	01-Jul-2020 03:32:02	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

20 2,4-Dinitrotoluene, CAS: 121-14-2, Signal: 1

RT: 12.13
Response: 7489
Amount: 0.024669



Reviewer: zhangji, 01-Jul-2020 14:58:04
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

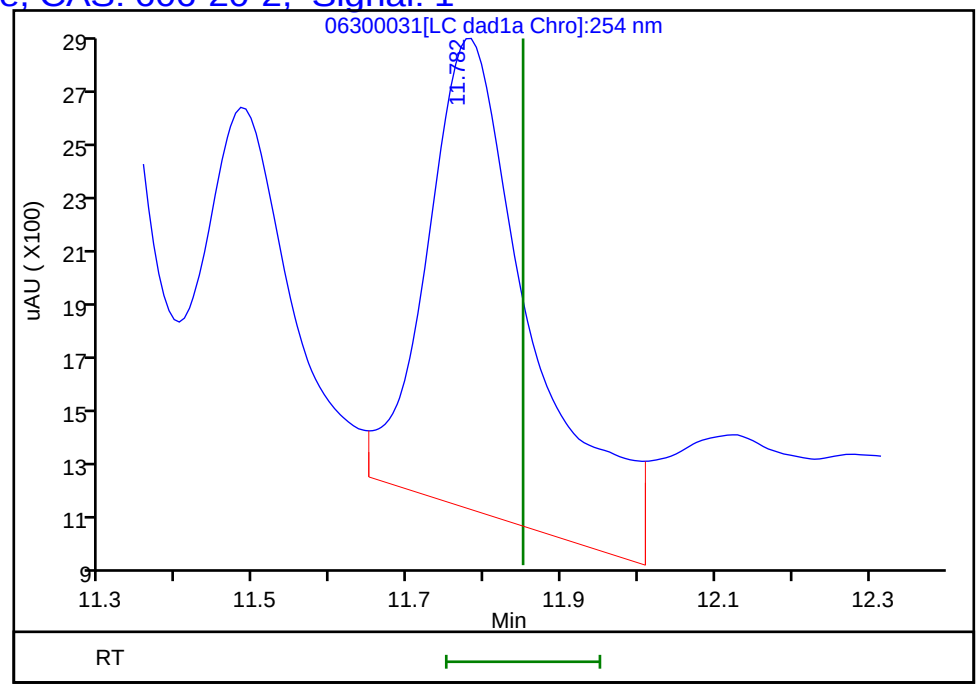
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300031.d				
Injection Date:	01-Jul-2020 03:32:02	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

19 2,6-Dinitrotoluene, CAS: 606-20-2, Signal: 1

RT: 11.78
Response: 16142
Amount: 0.108008



Reviewer: zhangji, 01-Jul-2020 14:58:04
Audit Action: Assigned New Baseline Audit Reason: Baseline

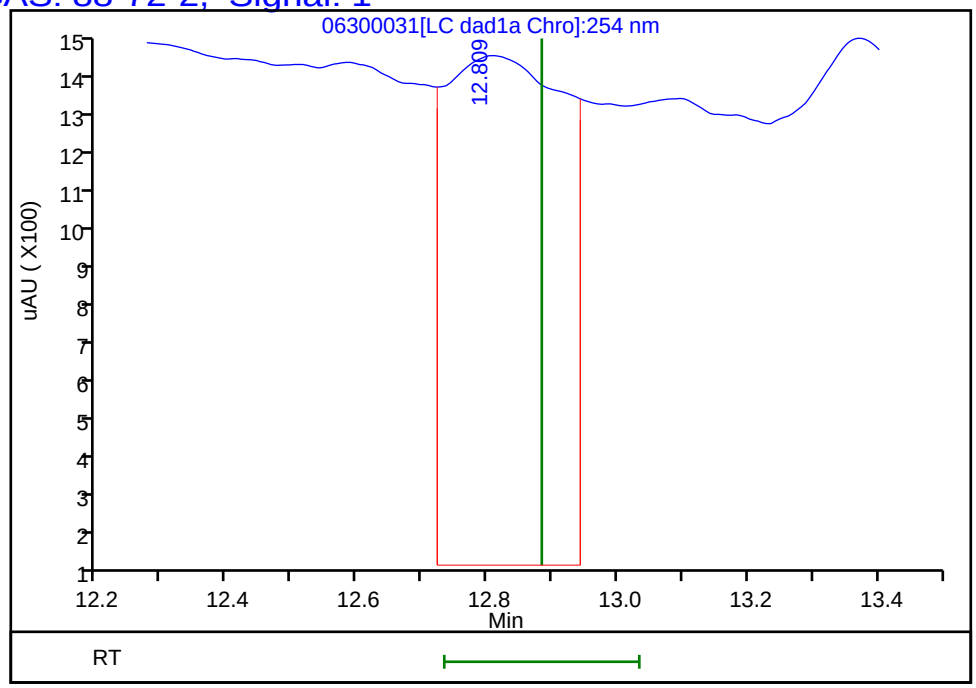
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300031.d				
Injection Date:	01-Jul-2020 03:32:02	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

21 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 12.81
Response: 15437
Amount: 0.114305



Reviewer: zhangji, 01-Jul-2020 14:58:04
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

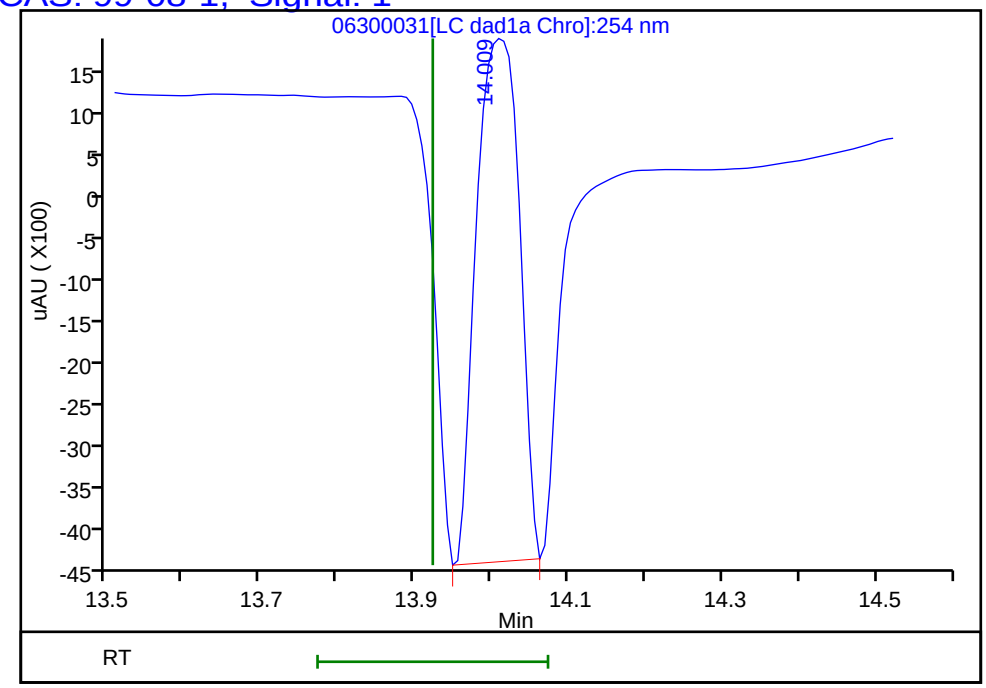
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300031.d				
Injection Date:	01-Jul-2020 03:32:02	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

23 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 14.01
Response: 24375
Amount: 0.170420



Reviewer: zhangji, 01-Jul-2020 14:58:04
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

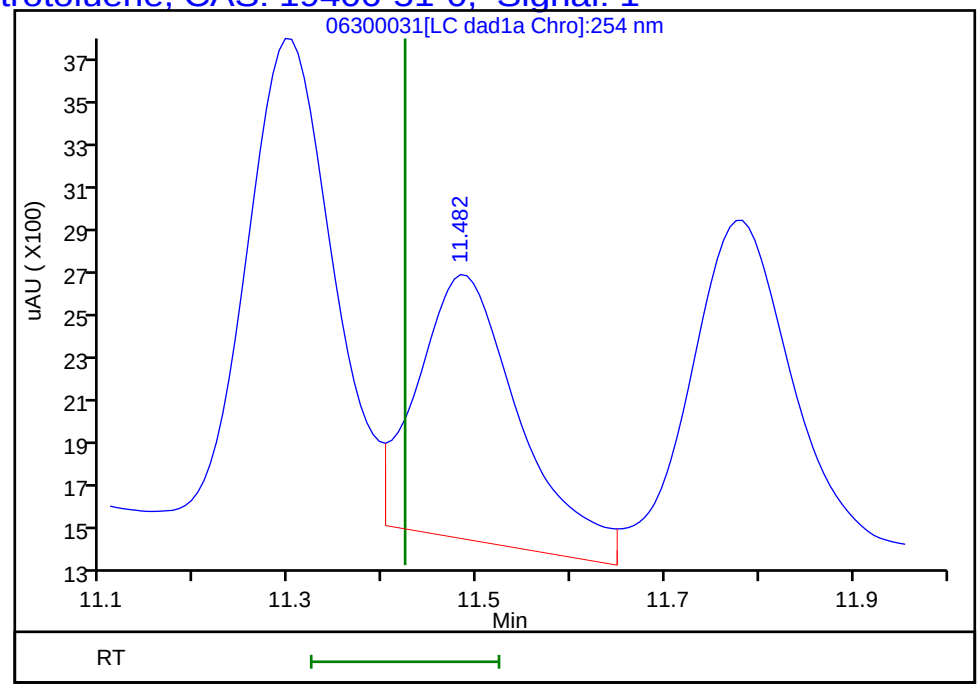
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300031.d				
Injection Date:	01-Jul-2020 03:32:02	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

17 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0, Signal: 1

RT: 11.48
Response: 9144
Amount: 0.057787



Reviewer: zhangji, 01-Jul-2020 14:58:04
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

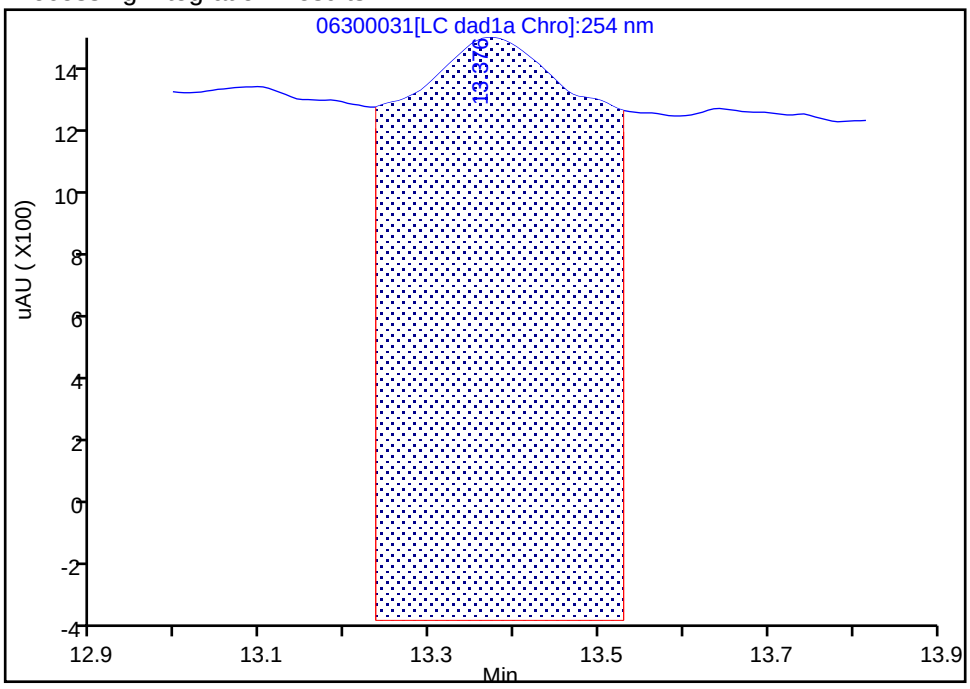
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300031.d				
Injection Date:	01-Jul-2020 03:32:02	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

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

Signal: 1

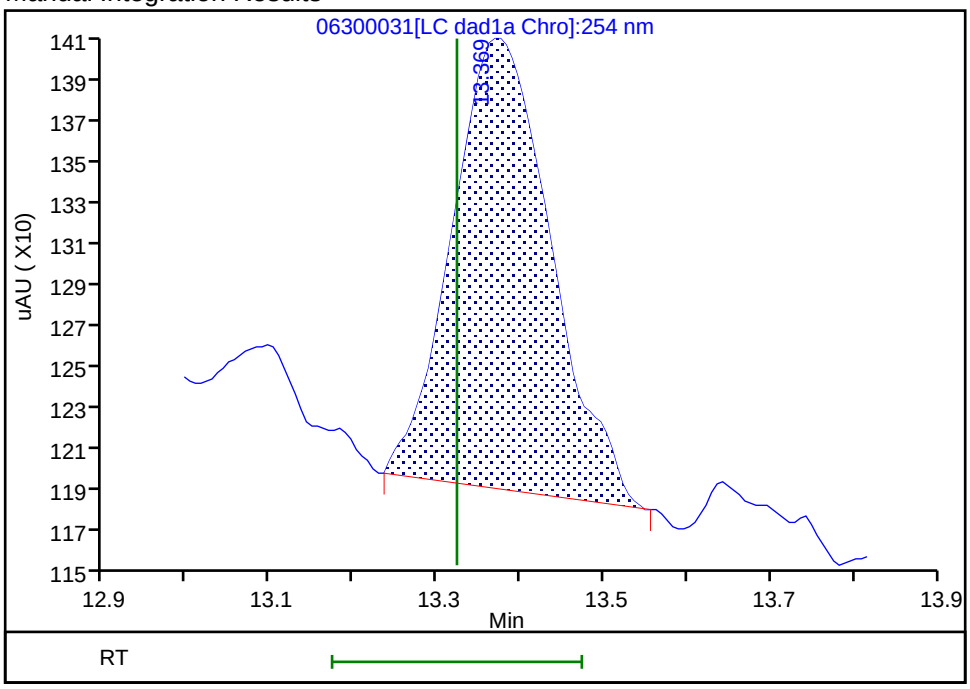
Processing Integration Results

RT: 13.38
Area: 28041
Amount: 0.248139
Amount Units: ug/mL



Manual Integration Results

RT: 13.37
Area: 1745
Amount: 0.015442
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:24:26

Audit Action: Manually Integrated Audit Reason: Baseline

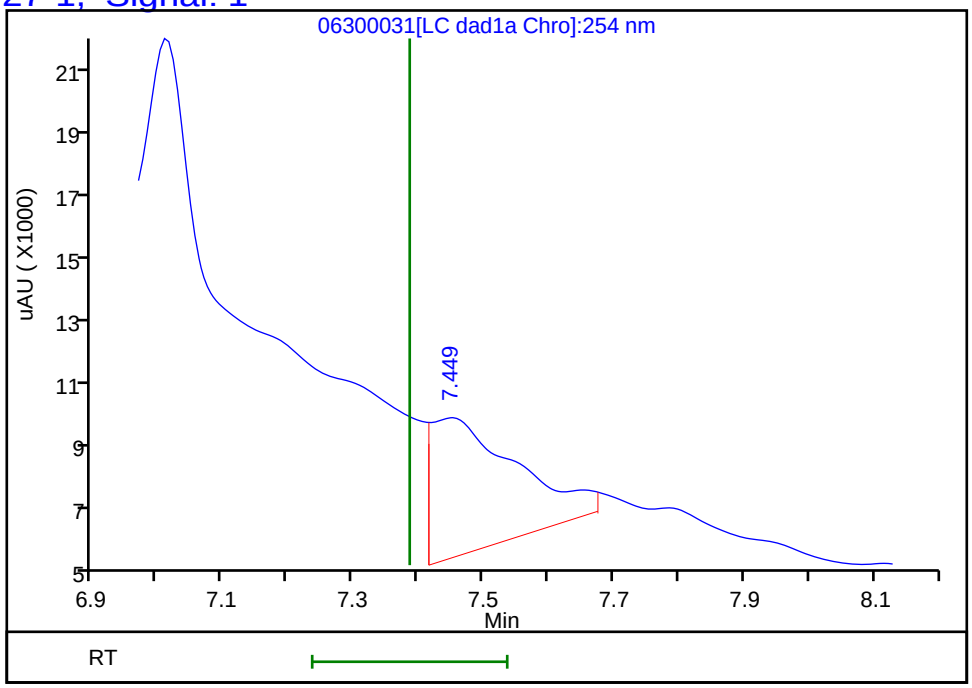
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300031.d				
Injection Date:	01-Jul-2020 03:32:02	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.45
Response: 36669
Amount: 0.231286



Reviewer: zhangji, 01-Jul-2020 14:58:04
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

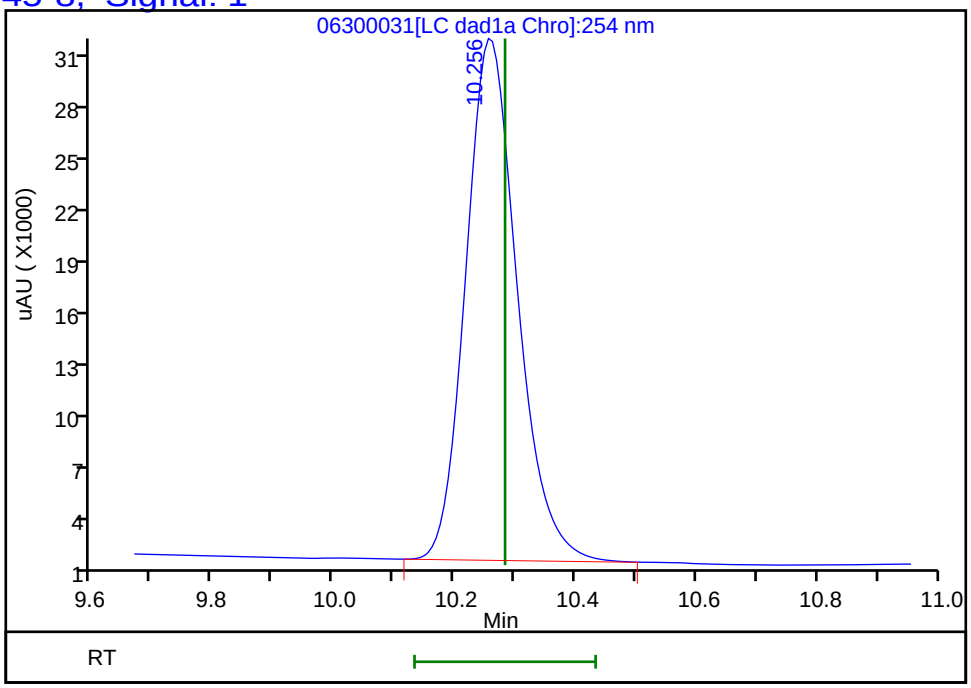
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300031.d

Injection Date:	01-Jul-2020 03:32:02	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.26
Response: 174319
Amount: 0.984675



Reviewer: zhangji, 01-Jul-2020 14:58:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0088-20A RE Lab Sample ID: 280-137736-12 RE

Matrix: Water Lab File ID: 07010016.D

Analysis Method: 8330A Date Collected: 06/15/2020 13:40

Extraction Method: 3535 Date Extracted: 06/30/2020 12:07

Sample wt/vol: 473.8(mL) Date Analyzed: 07/02/2020 03:36

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

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

Analysis Batch No.: 500847 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-99-0	*4-Nitrotoluene*	*0.42*	*U H*	*0.43*	0.42	*0.11*

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	104	*M*	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\07010016.D
Lims ID: 280-137736-B-12-A
Client ID: G0088-20A
Sample Type: Client
Inject. Date: 02-Jul-2020 03:36:33 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-B-12-
Misc. Info.: 280-0092951-016
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 02-Jul-2020 15:28:45 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1059

First Level Reviewer: zhangji Date: 02-Jul-2020 15:22:02

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
	6 HMX	1		7.244			ND	
	7 MNX	1		7.943			ND	
	8 RDX	1	9.525	9.477	0.048	1287	0.005267	
	9 Nitrobenzene	1		12.370			ND	
$	10 1,2-Dinitrobenzene	1	13.411	13.417	-0.006	59772	0.2090	M
	12 1,3-Dinitrobenzene	1		15.943			ND	
	14 o-Nitrotoluene	1		16.863			ND	U
	15 p-Nitrotoluene	1		17.150			ND	
	16 4-Amino-2,6-dinitrotoluene	1	17.625	17.630	-0.005	15743	0.0456	M
	17 m-Nitrotoluene	1		18.083			ND	MU
	18 2-Amino-4,6-dinitrotoluene	1	18.585	18.590	-0.005	25949	0.0558	
	19 1,3,5-Trinitrobenzene	1	19.265	19.270	-0.005	234981	0.4974	
	20 2,6-Dinitrotoluene	1		20.203			ND	
	21 2,4-Dinitrotoluene	1	20.758	20.724	0.035	2959	0.004623	M
	22 Tetryl	1		24.050			ND	
	23 2,4,6-Trinitrotoluene	1	25.025	25.030	-0.005	23896	0.0516	M

QC Flag Legend

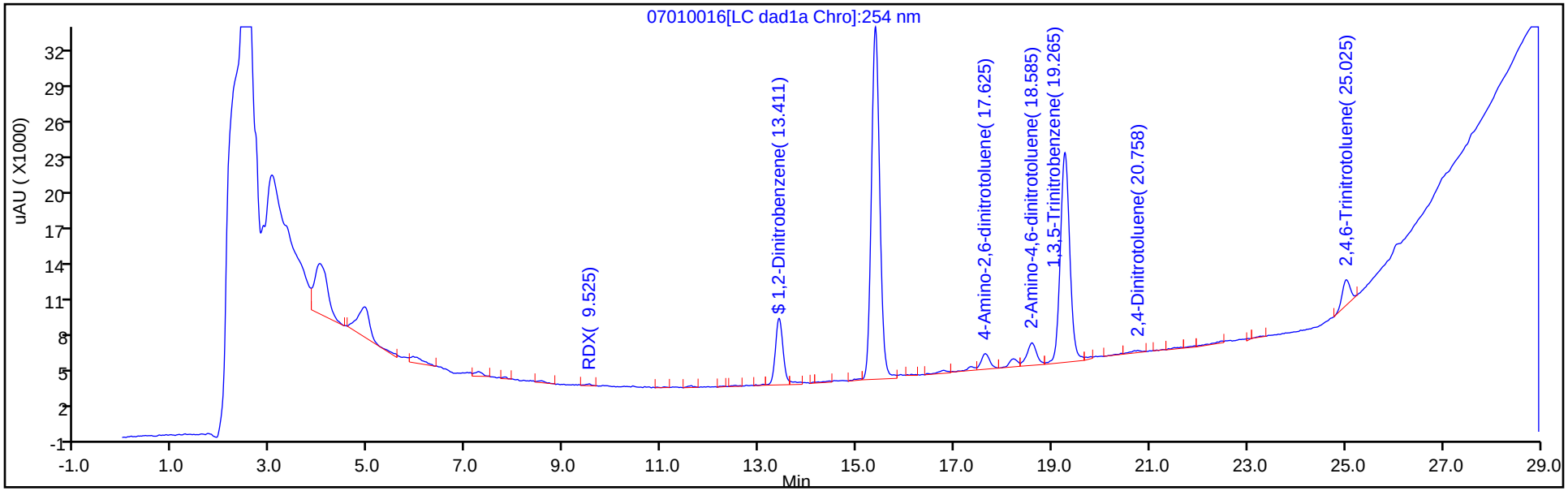
Review Flags
- M - Manually Integrated
- U - Marked Undetected

Report Date: 02-Jul-2020 15:28:49 Chrom Revision: 2.3 21-Jun-2020 18:30:46

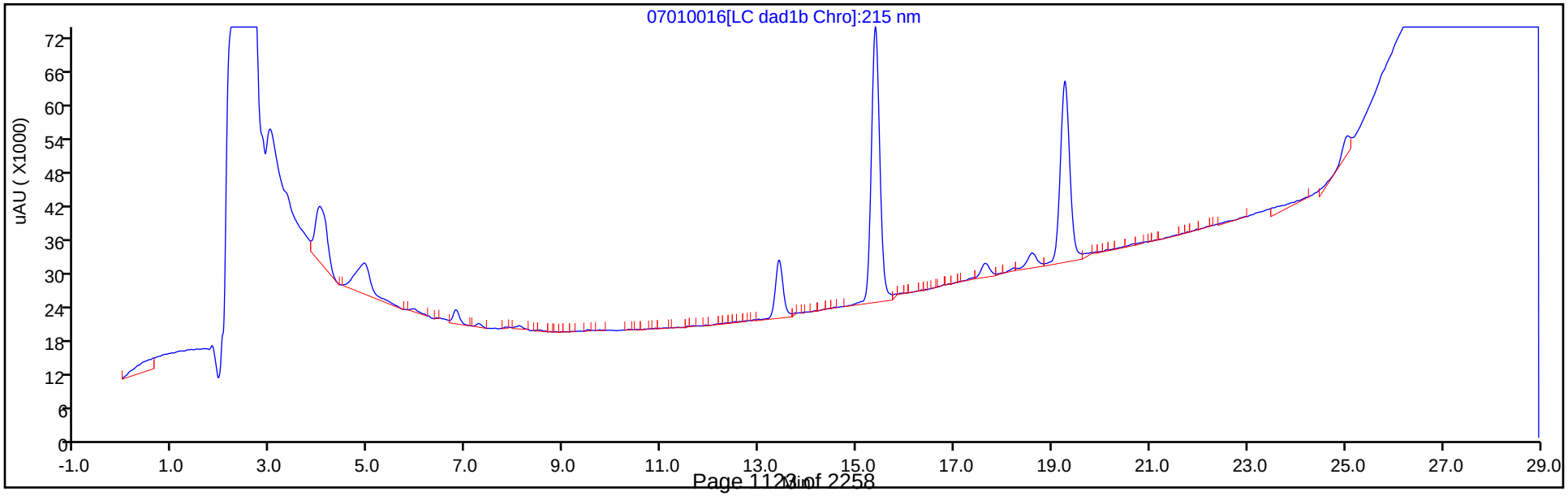
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010016.d				
Injection Date:	02-Jul-2020 03:36:33	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137736-B-12-A	Lab Sample ID:	280-137736-12	Worklist Smp#:	16
Client ID:	G0088-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\07010016.D				
Lims ID:	280-137736-B-12-A				
Client ID:	G0088-20A				
Sample Type:	Client				
Inject. Date:	02-Jul-2020 03:36:33	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-B-12-				
Misc. Info.:	280-0092951-016				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	02-Jul-2020 15:28:45	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1059				
First Level Reviewer: zhangji		Date:	02-Jul-2020 15:22:02		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.2090	104.49

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

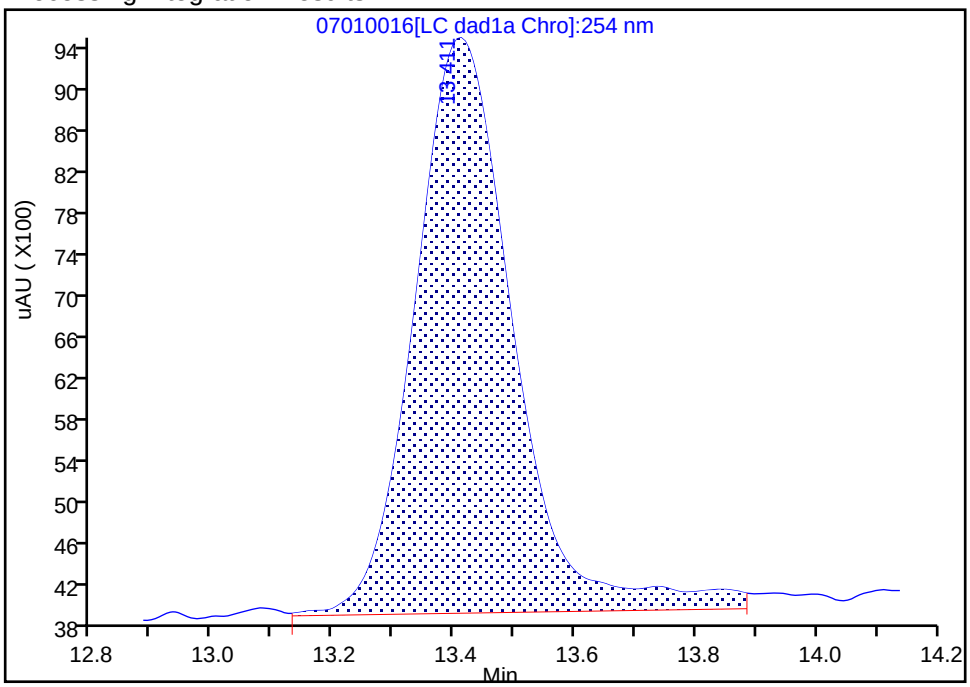
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010016.d				
Injection Date:	02-Jul-2020 03:36:33	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

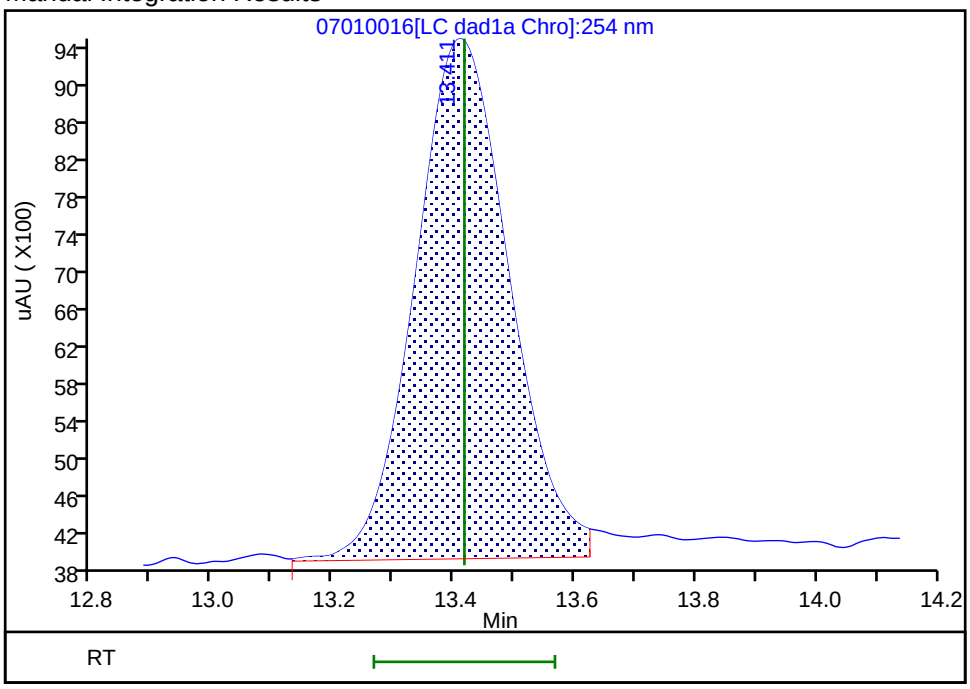
Processing Integration Results

RT: 13.41
Area: 62961
Amount: 0.220475
Amount Units: ug/ml



Manual Integration Results

RT: 13.41
Area: 59772
Amount: 0.208972
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:21:59

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

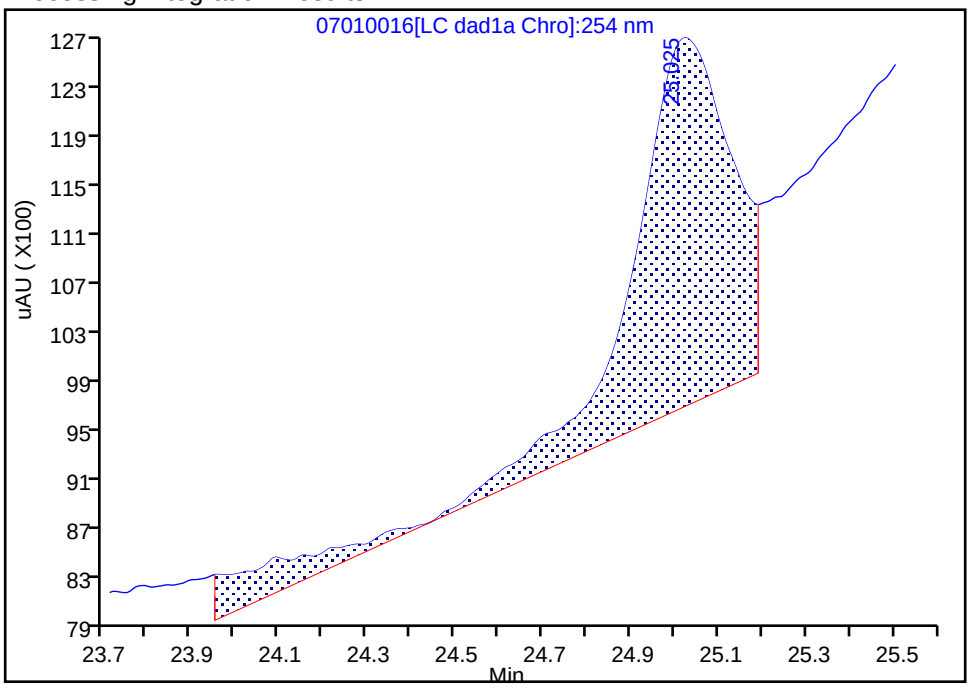
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010016.d				
Injection Date:	02-Jul-2020 03:36:33	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

23 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

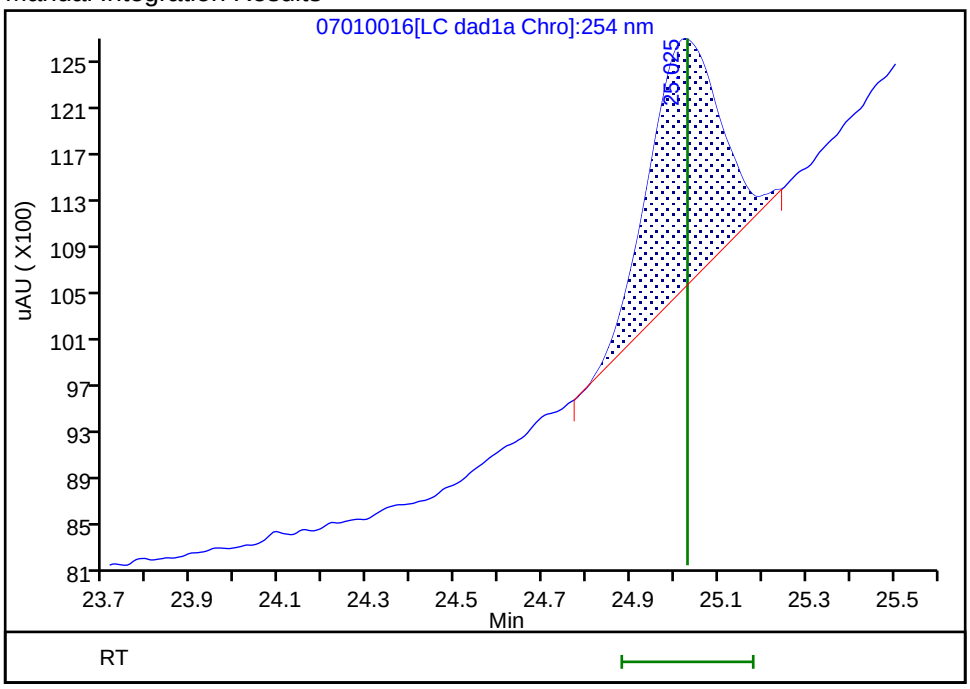
Processing Integration Results

RT: 25.02
Area: 50765
Amount: 0.118540
Amount Units: ug/ml



Manual Integration Results

RT: 25.02
Area: 23896
Amount: 0.051637
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:21:34

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

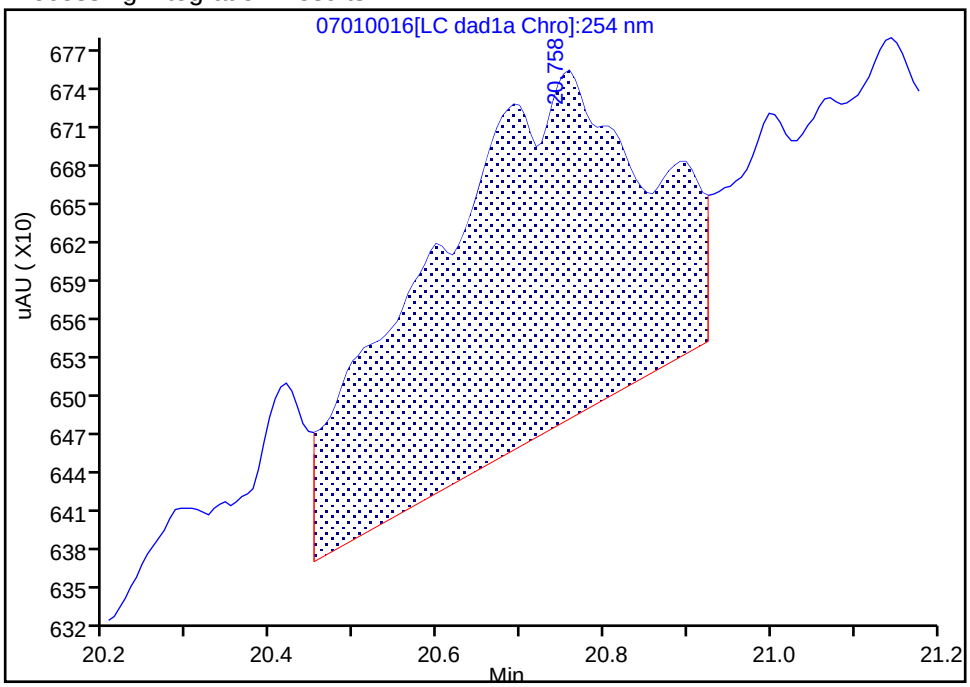
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010016.d				
Injection Date:	02-Jul-2020 03:36:33	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

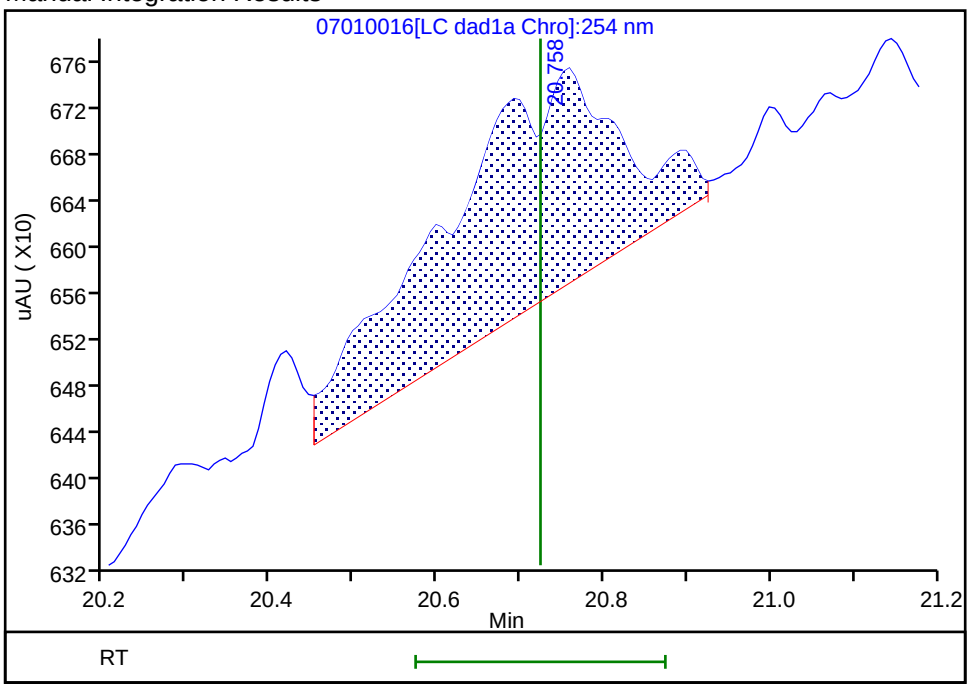
Processing Integration Results

RT: 20.76
Area: 5188
Amount: 0.008105
Amount Units: ug/ml



Manual Integration Results

RT: 20.76
Area: 2959
Amount: 0.004623
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:21:43
Audit Action: Assigned New Baseline Audit Reason: Baseline

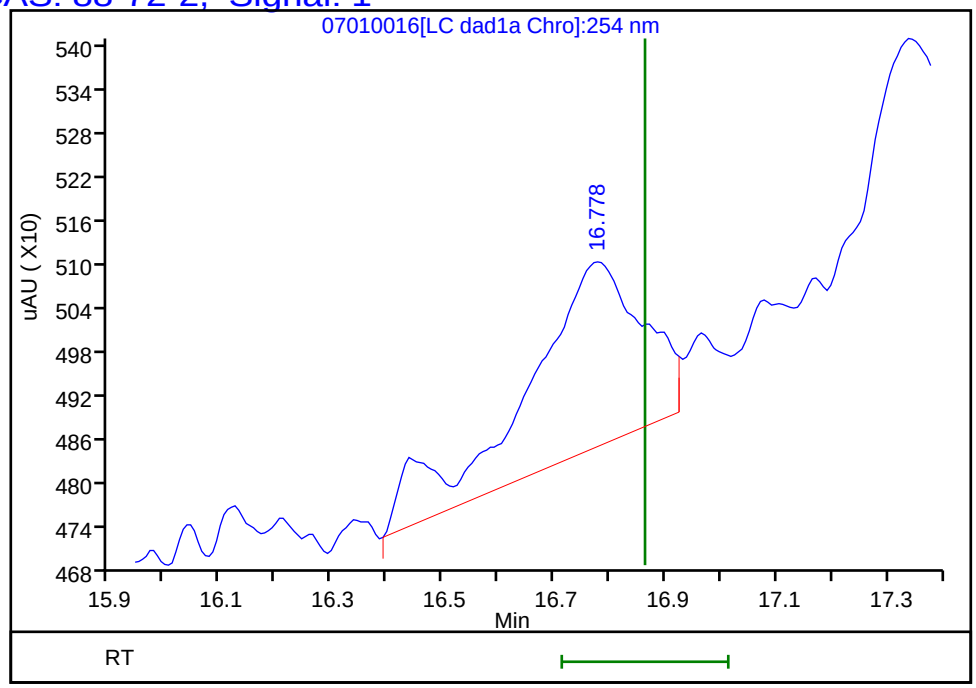
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010016.d				
Injection Date:	02-Jul-2020 03:36:33	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.78
Response: 3769
Amount: 0.013808



Reviewer: zhangji, 02-Jul-2020 15:22:02
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

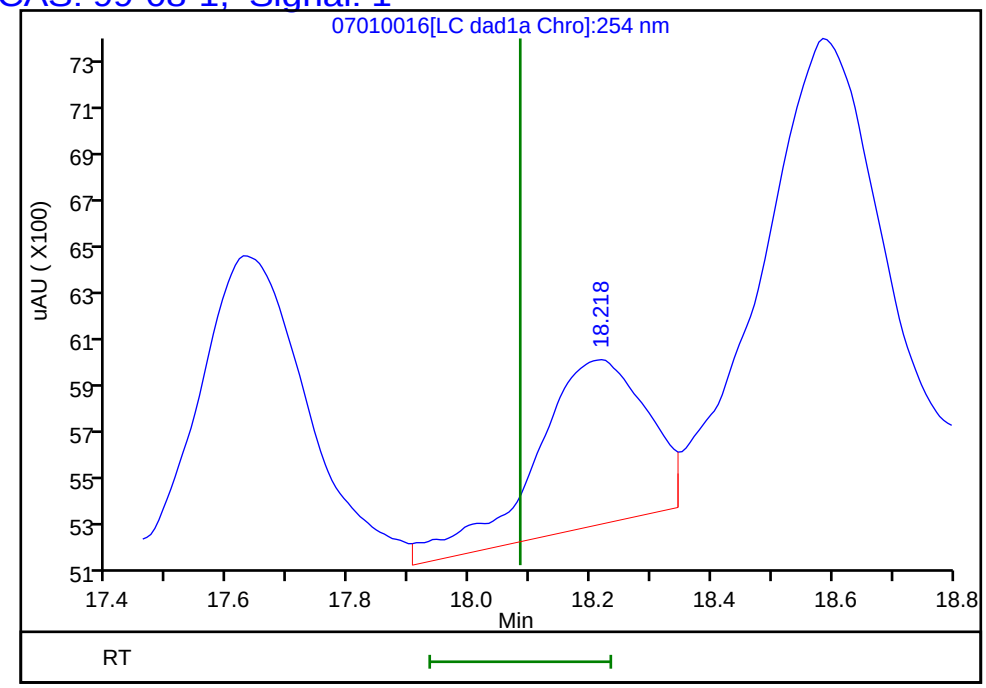
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010016.d				
Injection Date:	02-Jul-2020 03:36:33	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 18.22
Response: 8859
Amount: 0.029696



Reviewer: zhangji, 02-Jul-2020 15:22:02
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

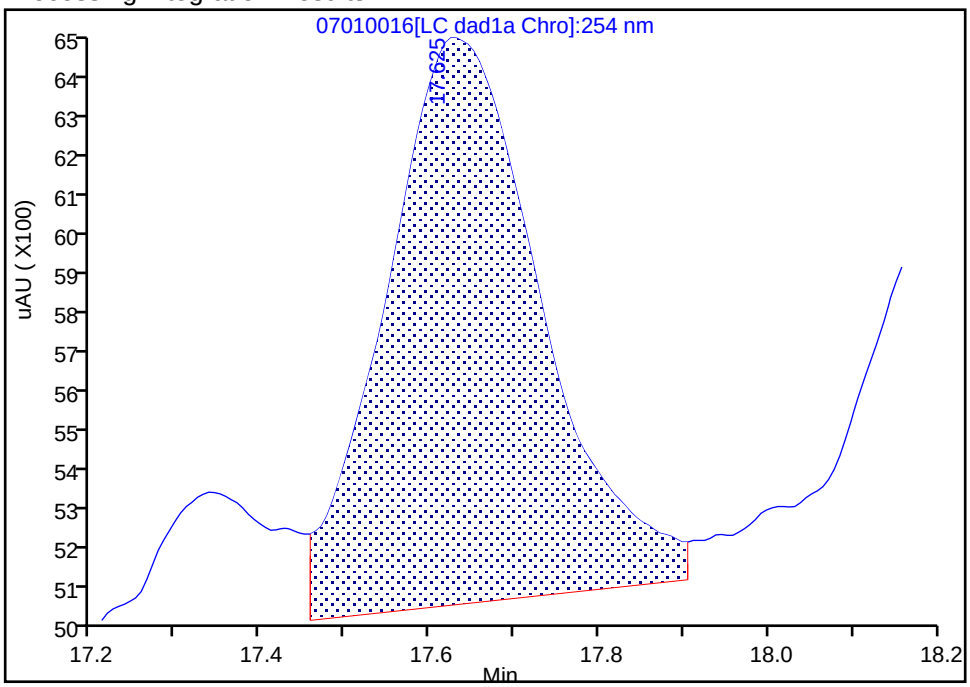
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010016.d				
Injection Date:	02-Jul-2020 03:36:33	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-12-A	Lab Sample ID:	280-137736-12		
Client ID:	G0088-20A				
Operator ID:	JZ	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

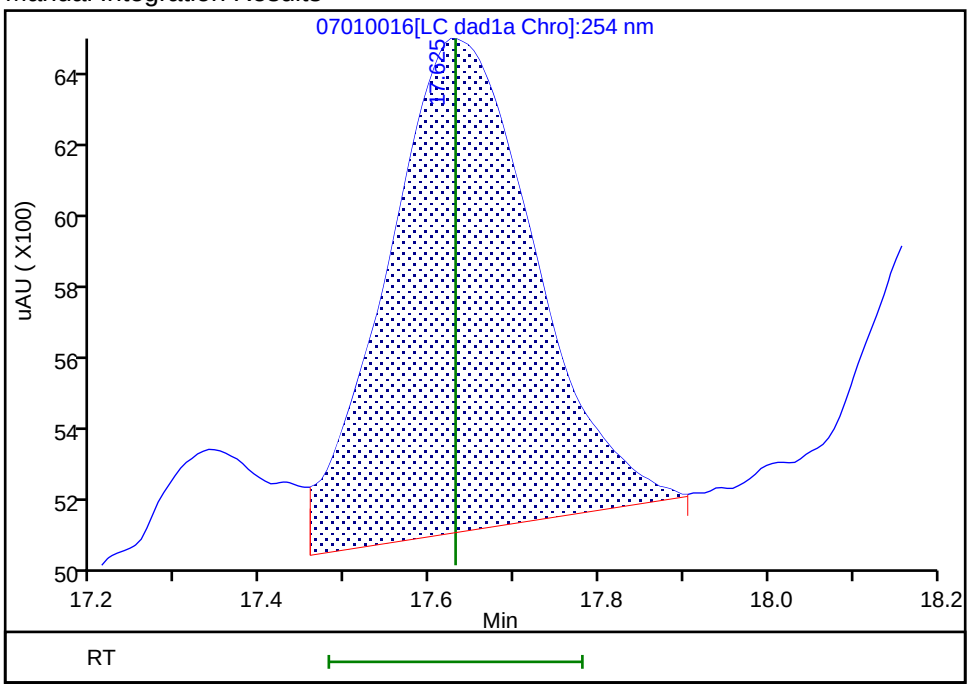
Processing Integration Results

RT: 17.62
Area: 17217
Amount: 0.049870
Amount Units: ug/ml



Manual Integration Results

RT: 17.62
Area: 15743
Amount: 0.045601
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:21:53
Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0089-20A Lab Sample ID: 280-137736-13

Matrix: Water Lab File ID: 06240052.D

Analysis Method: 8330A Date Collected: 06/15/2020 15:20

Extraction Method: 3535 Date Extracted: 06/19/2020 15:47

Sample wt/vol: 476.4(mL) Date Analyzed: 06/25/2020 09:31

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499989 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	2.6	M	0.22	0.21	0.088
99-65-0	1,3-Dinitrobenzene	0.10	U M	0.12	0.10	0.039
118-96-7	2,4,6-Trinitrotoluene	1.7		0.12	0.10	0.047
121-14-2	2,4-Dinitrotoluene	0.084	U	0.10	0.084	0.029
606-20-2	2,6-Dinitrotoluene	0.084	U	0.10	0.084	0.042
35572-78-2	2-Amino-4,6-dinitrotoluene	0.10	U M Q	0.12	0.10	0.053
88-72-2	2-Nitrotoluene	0.21	U Q	0.22	0.21	0.090
99-08-1	3-Nitrotoluene	0.42	U M Q	0.42	0.42	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	0.13	U M Q	0.16	0.13	0.061
99-99-0	4-Nitrotoluene	0.42	U Q	0.43	0.42	0.10
2691-41-0	HMX	0.21	U	0.22	0.21	0.092
5755-27-1	MNX	0.42	U M	2.1	0.42	0.16
98-95-3	Nitrobenzene	0.21	U M	0.22	0.21	0.096
121-82-4	RDX	0.21	U	0.22	0.21	0.054
479-45-8	Tetryl	0.10	U M	0.12	0.10	0.033

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	88	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240052.D
Lims ID: 280-137736-A-13-A
Client ID: G0089-20A
Sample Type: Client
Inject. Date: 25-Jun-2020 09:31:38 ALS Bottle#: 52 Worklist Smp#: 52
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-13-
Misc. Info.: 280-0092716-052
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:09:52 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:17:54

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 HMX	1		6.712			ND	
	6 MNX	1		7.384			ND	U
	7 RDX	1		7.785			ND	
$	9 1,2-Dinitrobenzene	1	8.736	8.738	-0.002	24452	0.1769	M
	10 1,3,5-Trinitrobenzene	1	8.916	8.918	-0.002	56032	0.2433	M
	11 1,3-Dinitrobenzene	1		9.565			ND	U
	12 Nitrobenzene	1		9.945			ND	U
	14 Tetryl	1		10.252			ND	U
	16 2,4,6-Trinitrotoluene	1	11.189	11.225	-0.036	32816	0.1608	
	17 4-Amino-2,6-dinitrotoluene	1		11.385			ND	U
	18 2-Amino-4,6-dinitrotoluene	1		11.678			ND	U
	19 2,6-Dinitrotoluene	1		11.818			ND	
	20 2,4-Dinitrotoluene	1		12.018			ND	
	21 o-Nitrotoluene	1		12.845			ND	
	22 p-Nitrotoluene	1		13.272			ND	
	23 m-Nitrotoluene	1		13.865			ND	U

QC Flag Legend

Review Flags
M - Manually Integrated
U - Marked Undetected

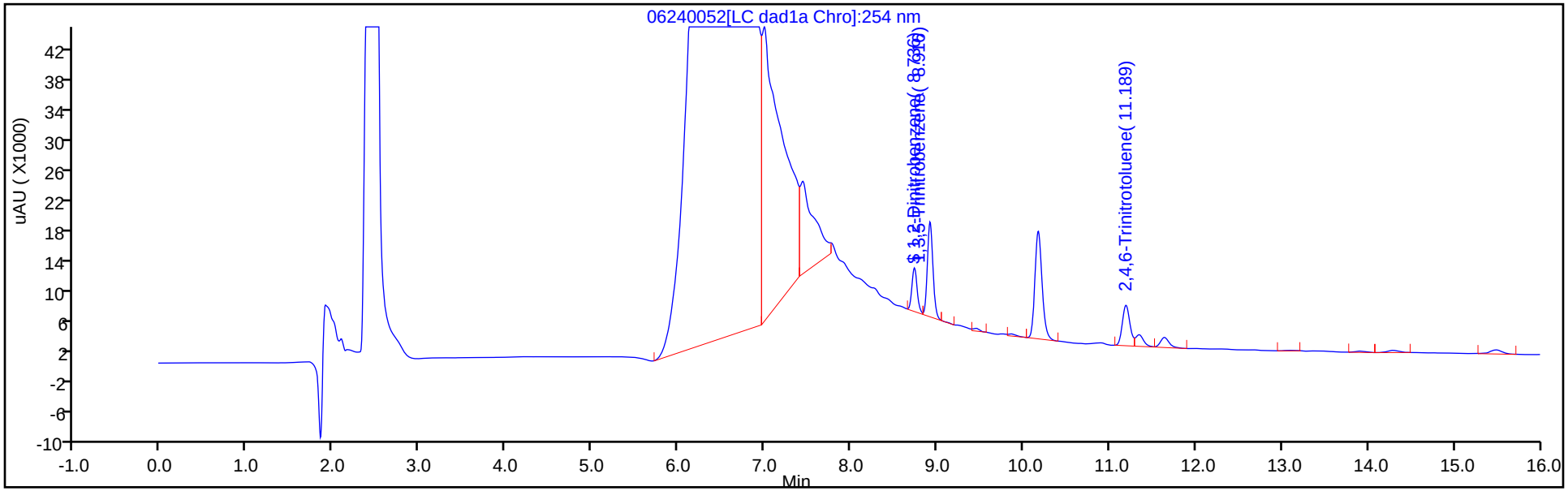
Report Date: 25-Jun-2020 21:09:55 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

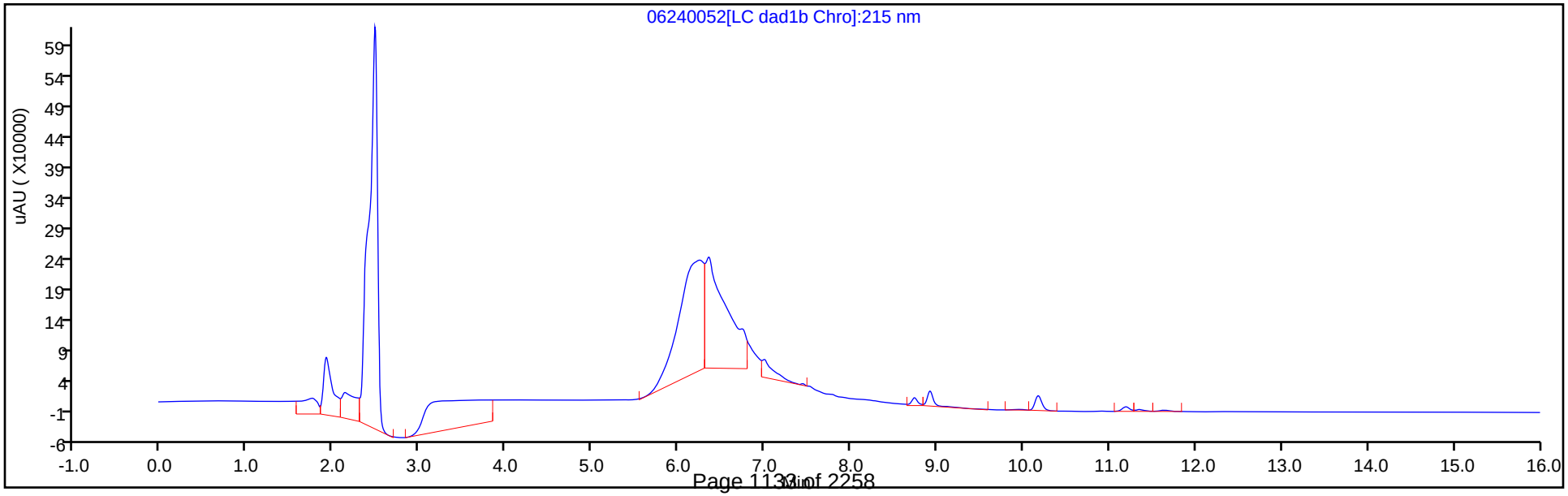
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240052.d

Injection Date:	25-Jun-2020 09:31:38	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-A-13-A	Lab Sample ID:	280-137736-13	Worklist Smp#:	52
Client ID:	G0089-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	52
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240052.D				
Lims ID:	280-137736-A-13-A				
Client ID:	G0089-20A				
Sample Type:	Client				
Inject. Date:	25-Jun-2020 09:31:38	ALS Bottle#:	52	Worklist Smp#:	52
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-13-				
Misc. Info.:	280-0092716-052				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	25-Jun-2020 21:09:52	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1063				

First Level Reviewer: zhangji Date: 25-Jun-2020 16:17:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1769	88.46

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

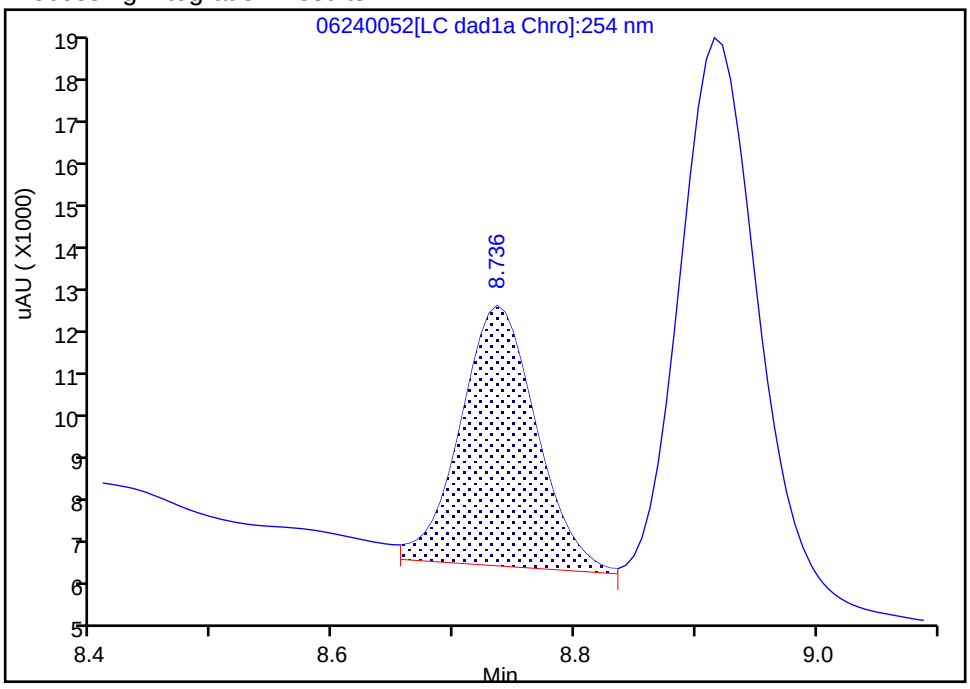
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240052.d				
Injection Date:	25-Jun-2020 09:31:38	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	52	Worklist Smp#:	52
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

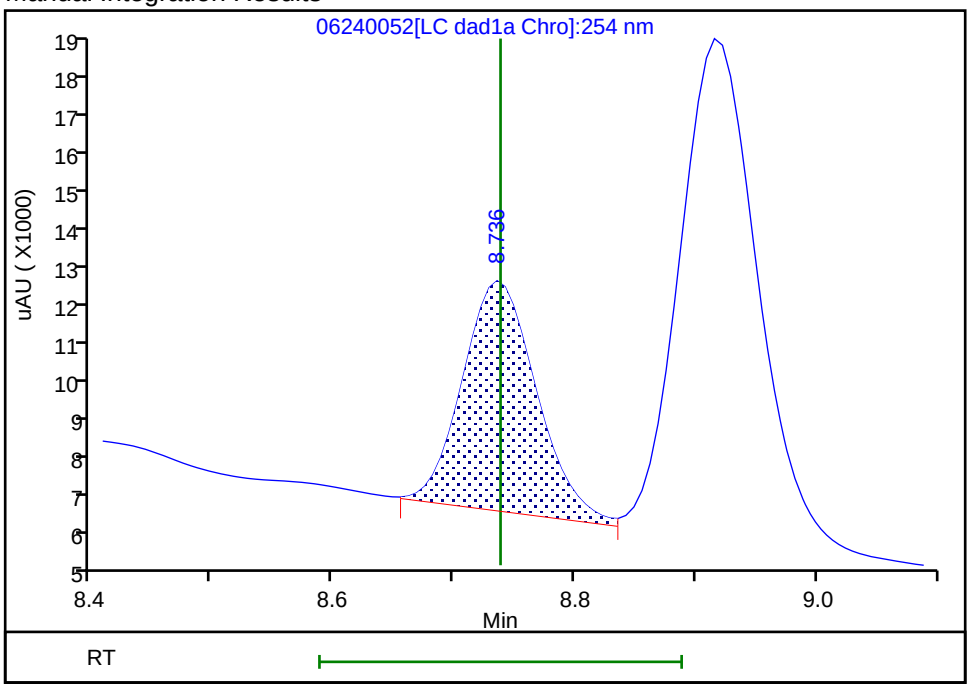
Processing Integration Results

RT: 8.74
Area: 25591
Amount: 0.185157
Amount Units: ug/mL



Manual Integration Results

RT: 8.74
Area: 24452
Amount: 0.176916
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:17:44
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

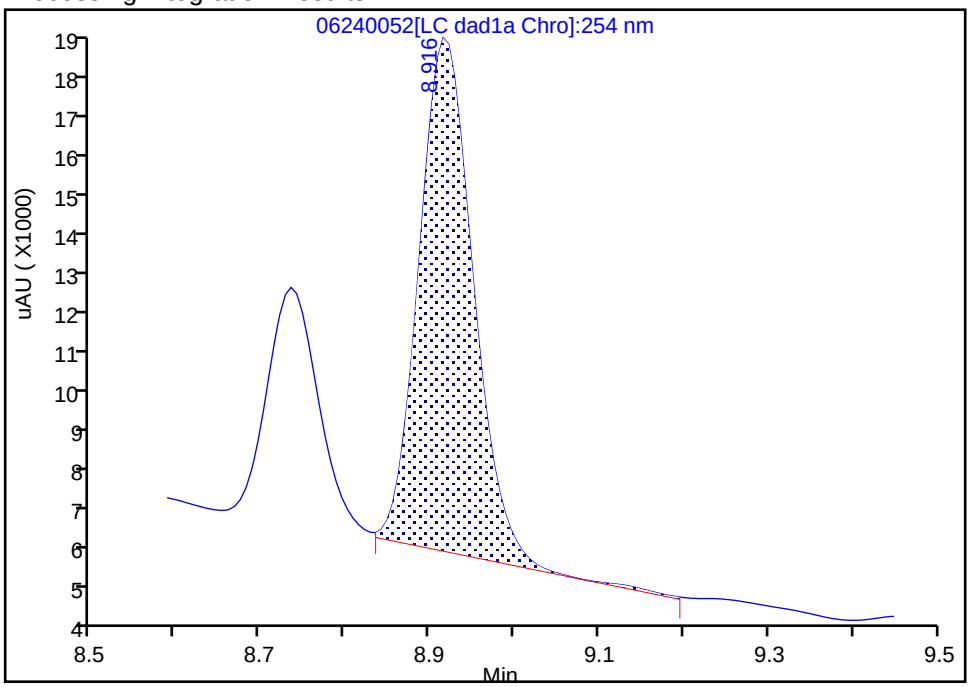
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240052.d				
Injection Date:	25-Jun-2020 09:31:38	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	52	Worklist Smp#:	52
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

10 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

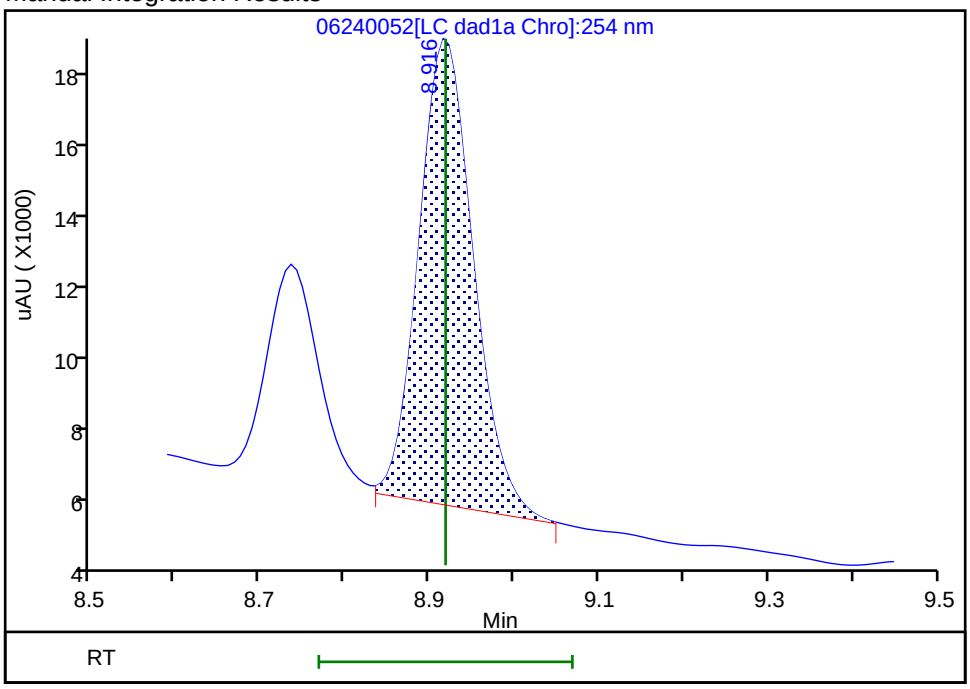
Processing Integration Results

RT: 8.92
Area: 55821
Amount: 0.242375
Amount Units: ug/mL



Manual Integration Results

RT: 8.92
Area: 56032
Amount: 0.243291
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:17:48

Audit Action: Split an Integrated Peak Audit Reason: Baseline

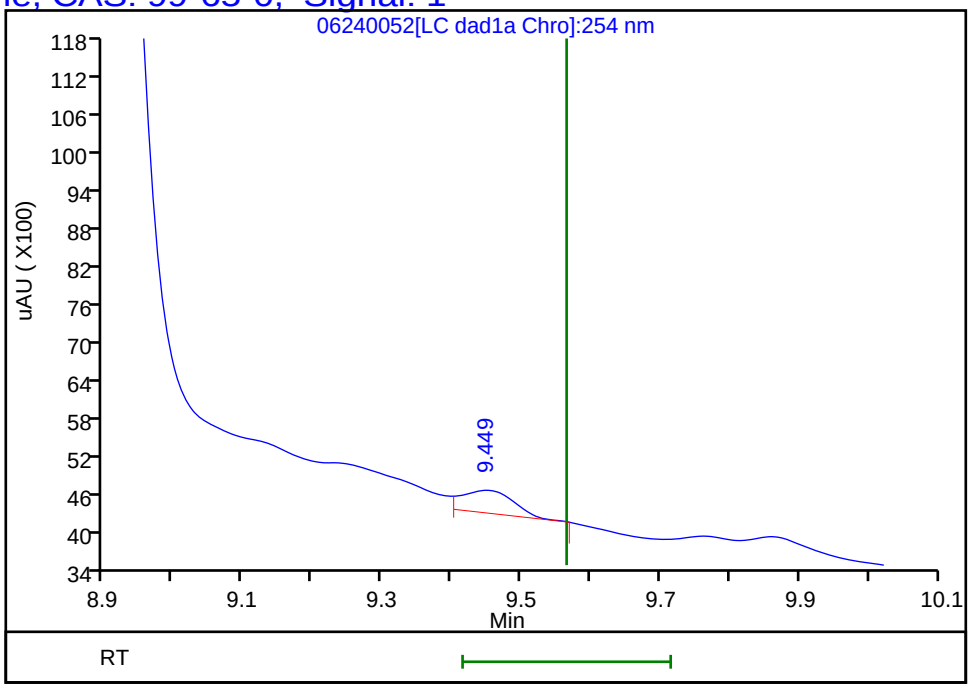
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240052.d				
Injection Date:	25-Jun-2020 09:31:38	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	52	Worklist Smp#:	52
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

11 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.45
Response: 1814
Amount: 0.005915



Reviewer: zhangji, 25-Jun-2020 16:17:54
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

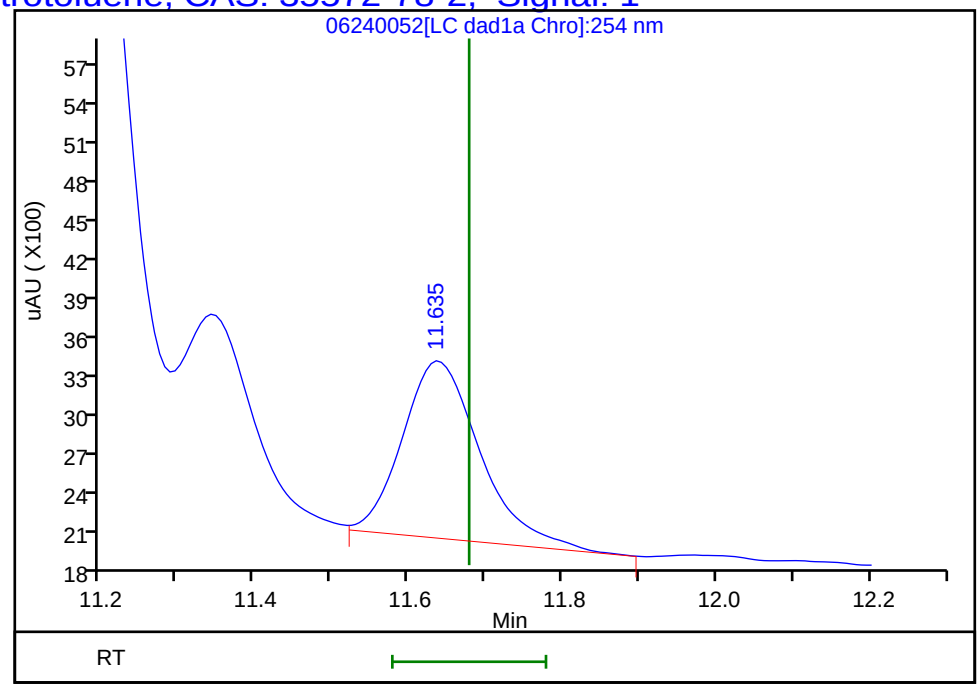
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240052.d				
Injection Date:	25-Jun-2020 09:31:38	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	52	Worklist Smp#:	52
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2, Signal: 1

RT: 11.64
Response: 9373
Amount: 0.046214



Reviewer: zhangji, 25-Jun-2020 16:17:54
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

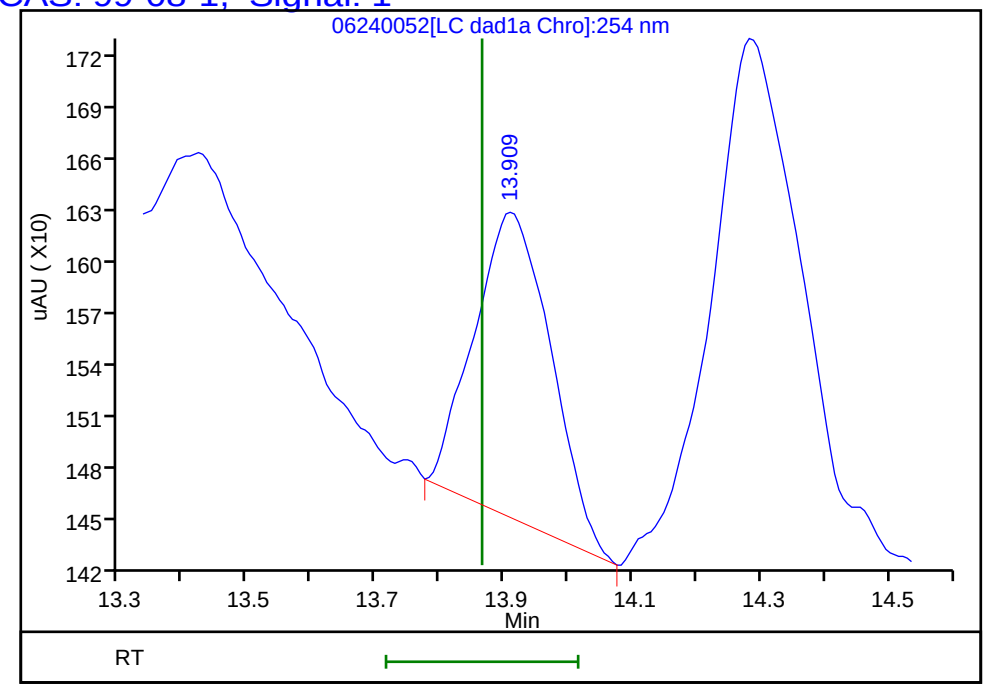
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240052.d				
Injection Date:	25-Jun-2020 09:31:38	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	52	Worklist Smp#:	52
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

23 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 13.91
Response: 1456
Amount: 0.010180



Reviewer: zhangji, 25-Jun-2020 16:17:54
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

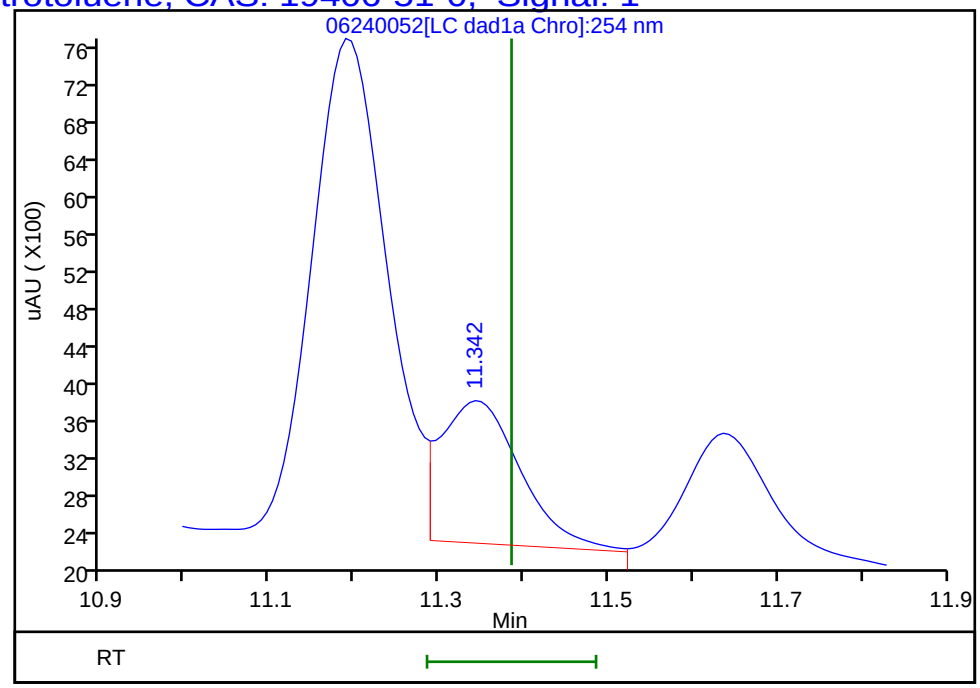
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240052.d

Injection Date:	25-Jun-2020 09:31:38	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	52	Worklist Smp#:	52
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

17 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0, Signal: 1

RT: 11.34
Response: 9881
Amount: 0.061919



Reviewer: zhangji, 25-Jun-2020 16:17:54
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

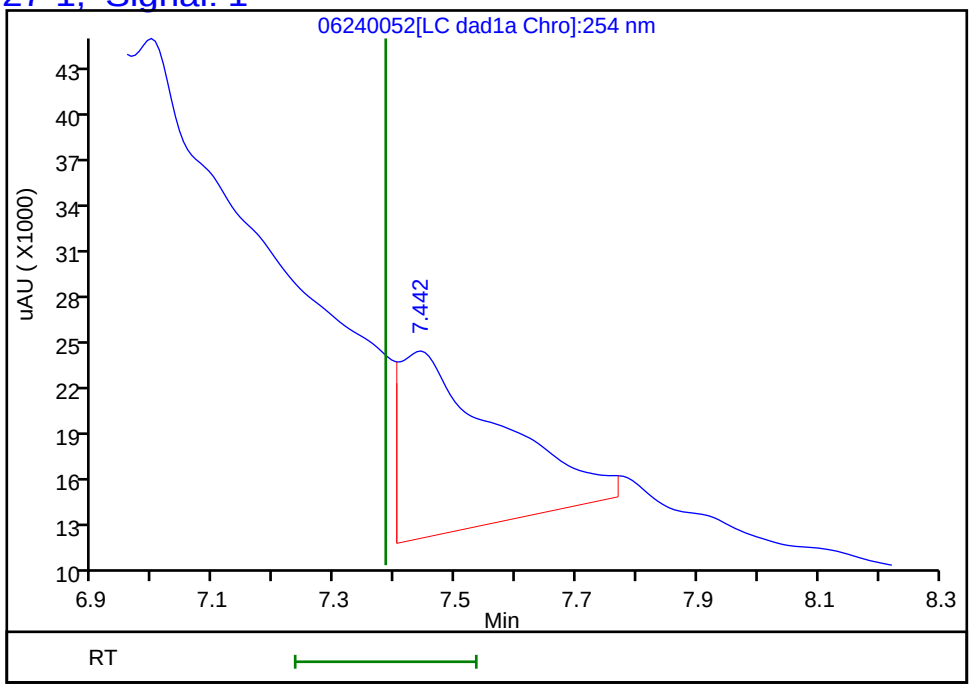
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240052.d				
Injection Date:	25-Jun-2020 09:31:38	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	52	Worklist Smp#:	52
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.44
Response: 136952
Amount: 0.863810



Reviewer: zhangji, 25-Jun-2020 16:17:54
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

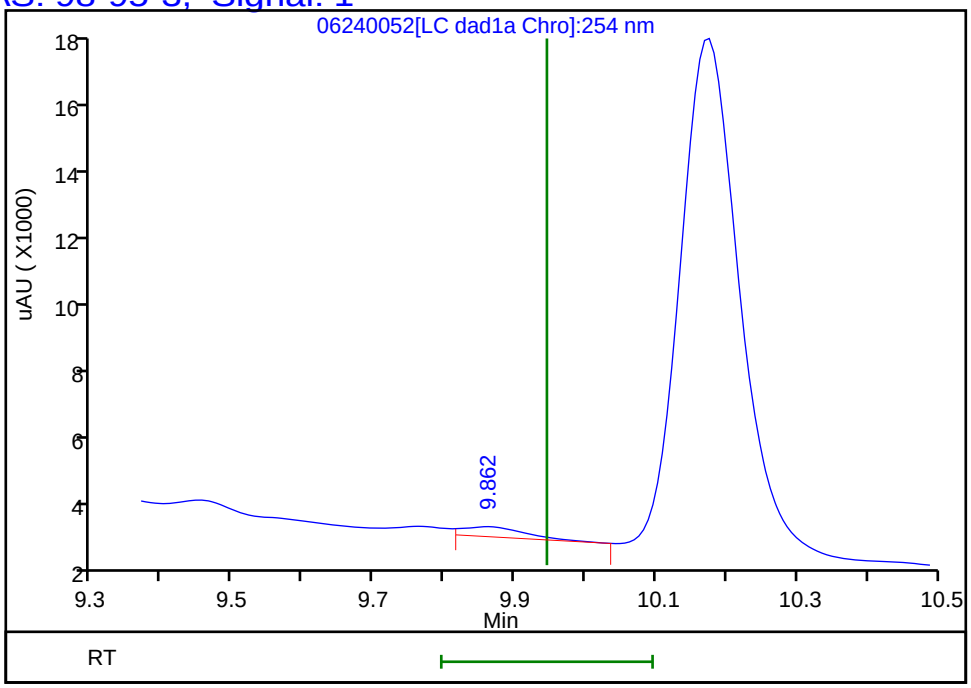
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240052.d				
Injection Date:	25-Jun-2020 09:31:38	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	52	Worklist Smp#:	52
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

12 Nitrobenzene, CAS: 98-95-3, Signal: 1

RT: 9.86
Response: 1695
Amount: 0.008458



Reviewer: zhangji, 25-Jun-2020 16:17:54
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

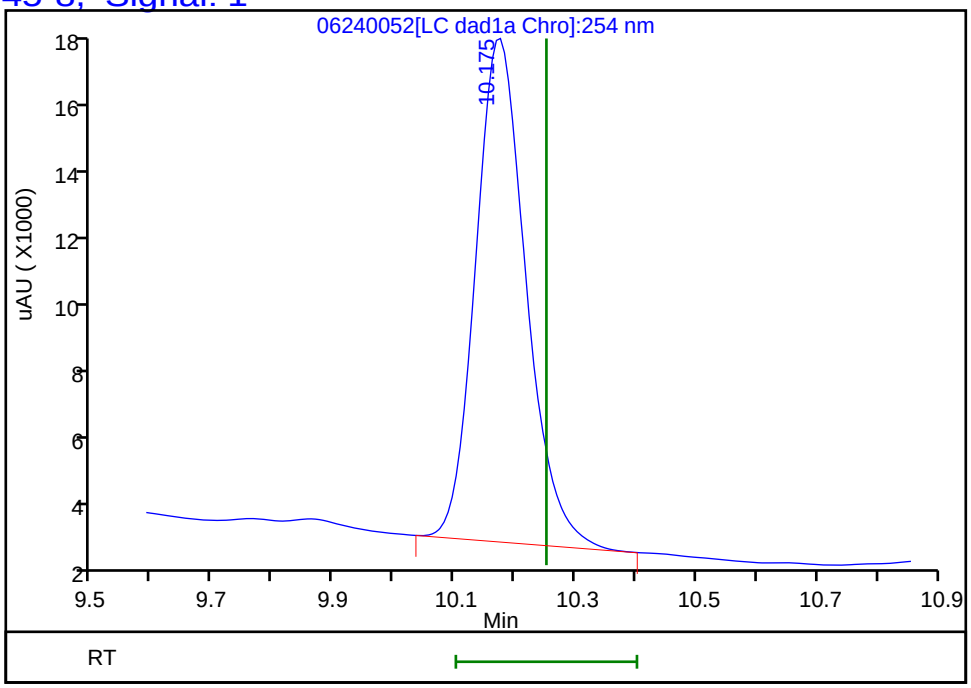
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240052.d				
Injection Date:	25-Jun-2020 09:31:38	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	52	Worklist Smp#:	52
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.18
Response: 82392
Amount: 0.465408



Reviewer: zhangji, 25-Jun-2020 16:17:54
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0089-20A Lab Sample ID: 280-137736-13

Matrix: Water Lab File ID: 06260037.D

Analysis Method: 8330A Date Collected: 06/15/2020 15:20

Extraction Method: 3535 Date Extracted: 06/19/2020 15:47

Sample wt/vol: 476.4(mL) Date Analyzed: 06/27/2020 17:20

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

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

Analysis Batch No.: 500327 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	89		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260037.D				
Lims ID:	280-137736-A-13-A				
Client ID:	G0089-20A				
Sample Type:	Client				
Inject. Date:	27-Jun-2020 17:20:55	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-13-				
Misc. Info.:	280-0092796-037				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	01-Jul-2020 16:55:51	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1062				
First Level Reviewer: zhangji		Date:	01-Jul-2020 16:54:59		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1	7.138	7.154	-0.016	4328	-0.005627	7M
7 MNX	1		7.919			ND	
8 RDX	1	9.351	9.367	-0.016	6832	0.0280	M
9 Nitrobenzene	1		12.274			ND	
$ 10 1,2-Dinitrobenzene	1	13.278	13.281	-0.003	51044	0.1775	
12 1,3-Dinitrobenzene	1		15.814			ND	
14 o-Nitrotoluene	1		16.754			ND	U
15 p-Nitrotoluene	1		17.034			ND	M
16 4-Amino-2,6-dinitrotoluene	1	17.438	17.474	-0.036	20462	0.0593	M
17 m-Nitrotoluene	1		17.967			ND	
18 2-Amino-4,6-dinitrotoluene	1	18.385	18.407	-0.022	28346	0.0609	
19 1,3,5-Trinitrobenzene	1	19.131	19.147	-0.016	107807	0.2282	M
20 2,6-Dinitrotoluene	1		20.074			ND	
21 2,4-Dinitrotoluene	1		20.587			ND	
22 Tetryl	1		23.887			ND	
23 2,4,6-Trinitrotoluene	1	24.905	24.907	-0.002	57192	0.1345	M

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected

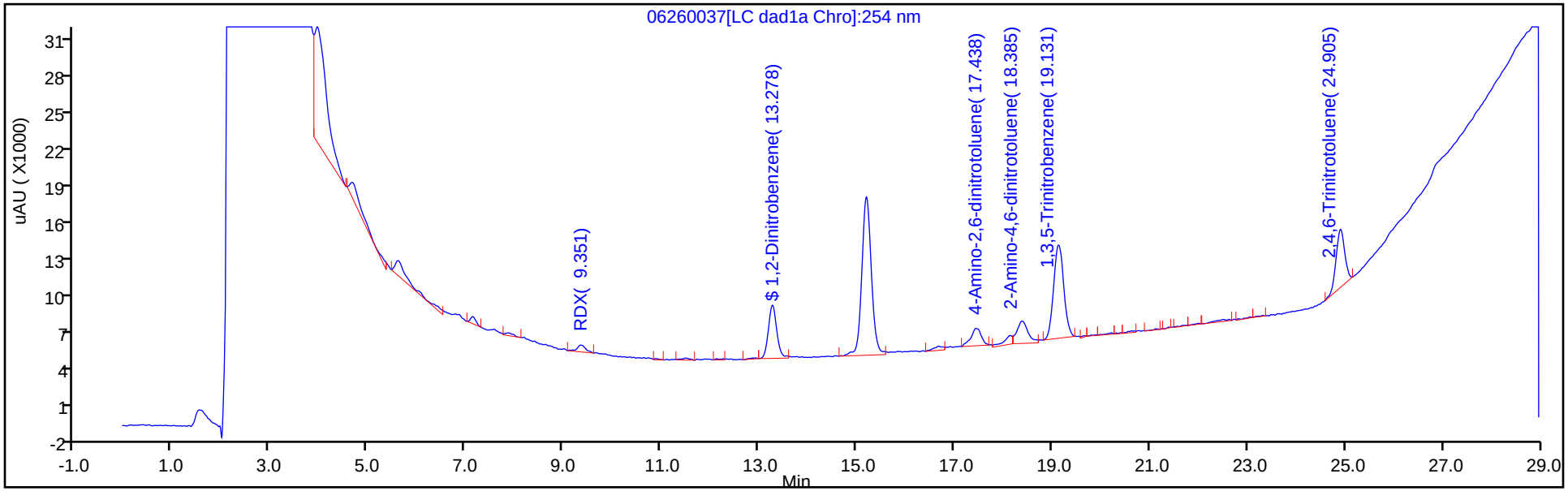
Report Date: 01-Jul-2020 16:56:03 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

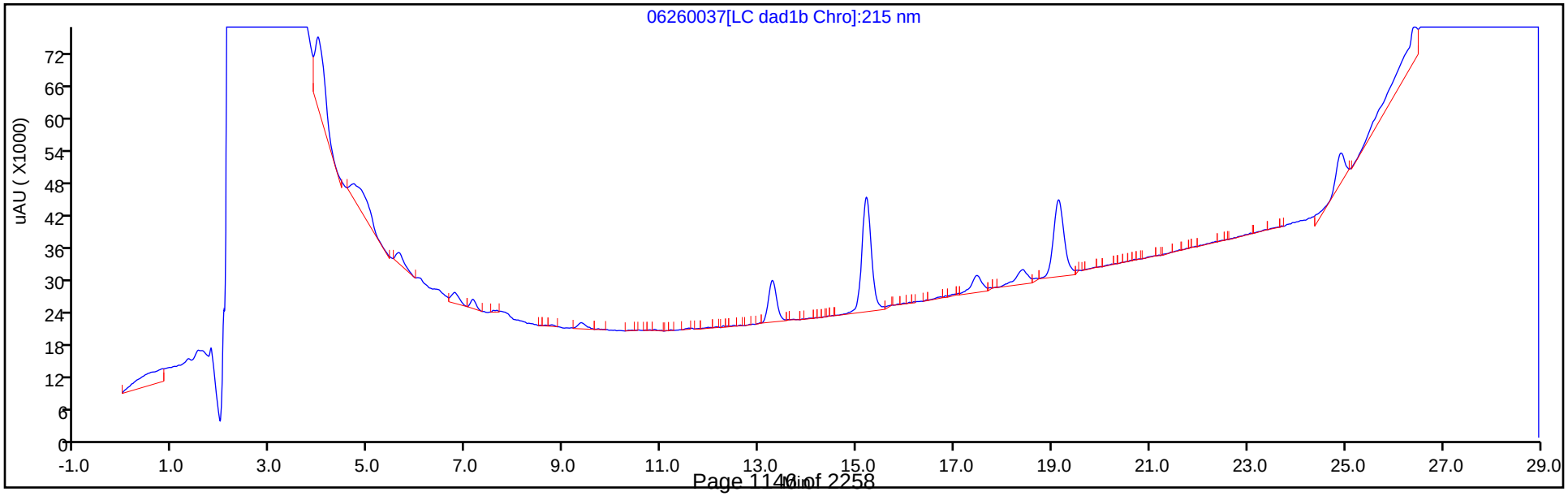
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260037.d

Injection Date:	27-Jun-2020 17:20:55	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137736-A-13-A	Lab Sample ID:	280-137736-13	Worklist Smp#:	37
Client ID:	G0089-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260037.D				
Lims ID:	280-137736-A-13-A				
Client ID:	G0089-20A				
Sample Type:	Client				
Inject. Date:	27-Jun-2020 17:20:55	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-13-				
Misc. Info.:	280-0092796-037				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	01-Jul-2020 16:55:51	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1062				
First Level Reviewer: zhangji		Date:	01-Jul-2020 16:54:59		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1775	88.74

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

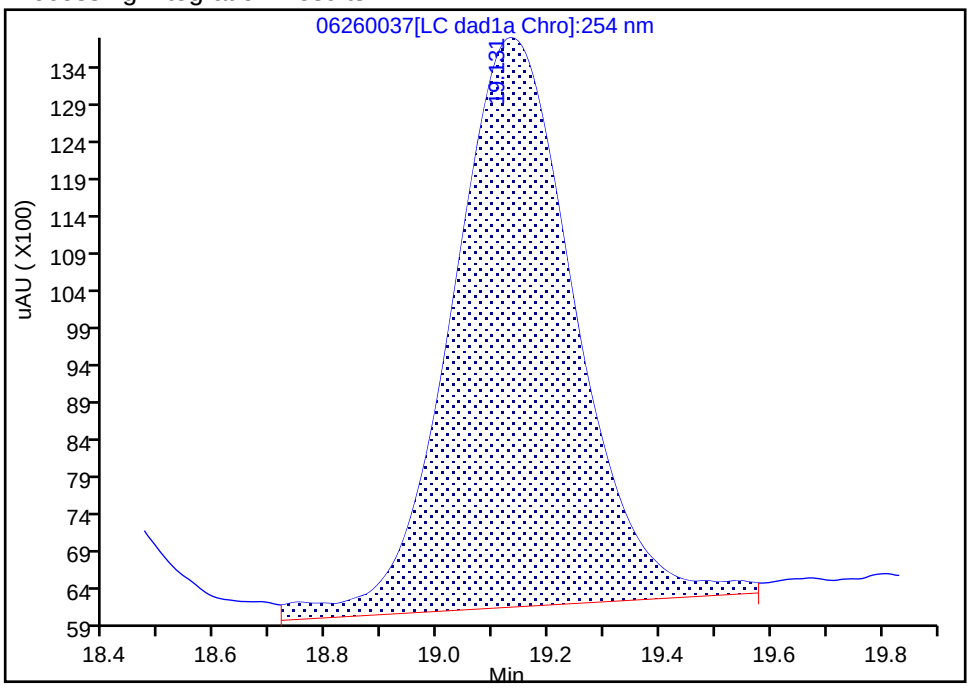
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260037.d				
Injection Date:	27-Jun-2020 17:20:55	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

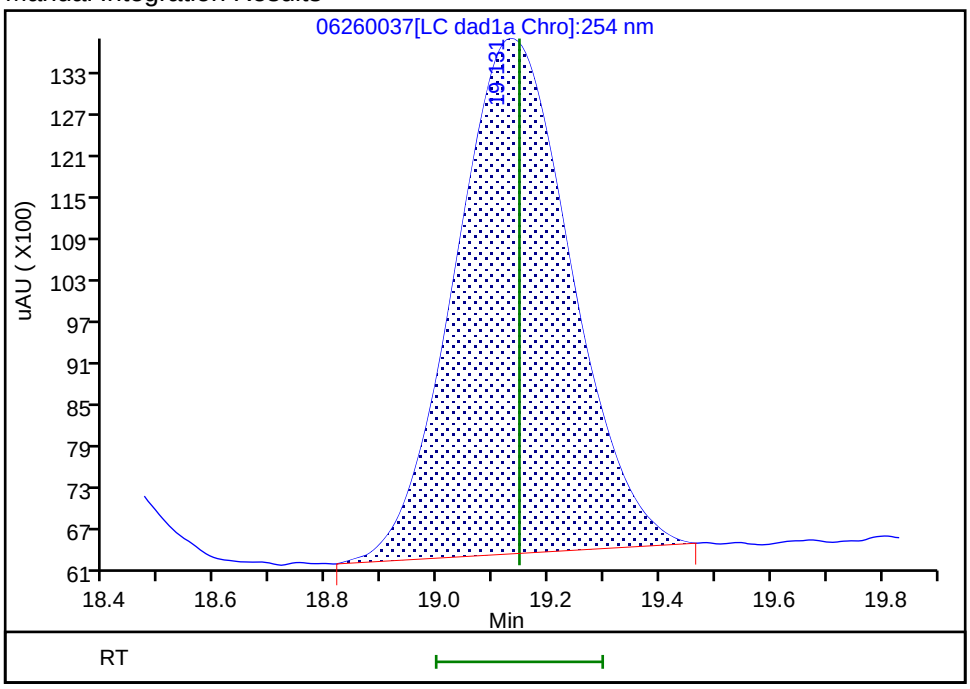
Processing Integration Results

RT: 19.13
Area: 117679
Amount: 0.249082
Amount Units: ug/ml



Manual Integration Results

RT: 19.13
Area: 107807
Amount: 0.228187
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 16:54:50

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

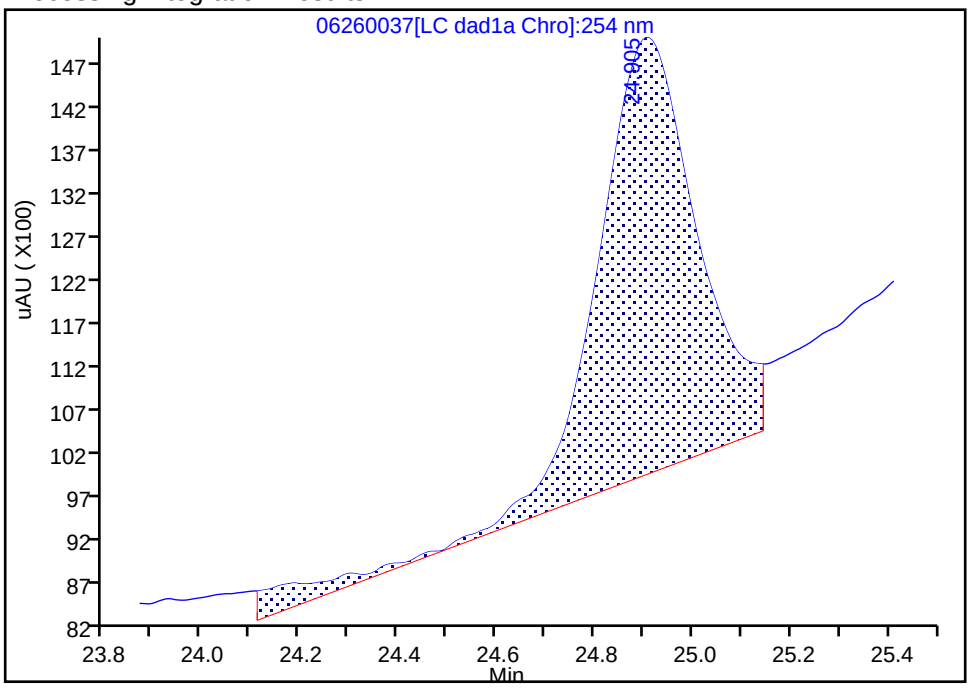
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260037.d				
Injection Date:	27-Jun-2020 17:20:55	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

23 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

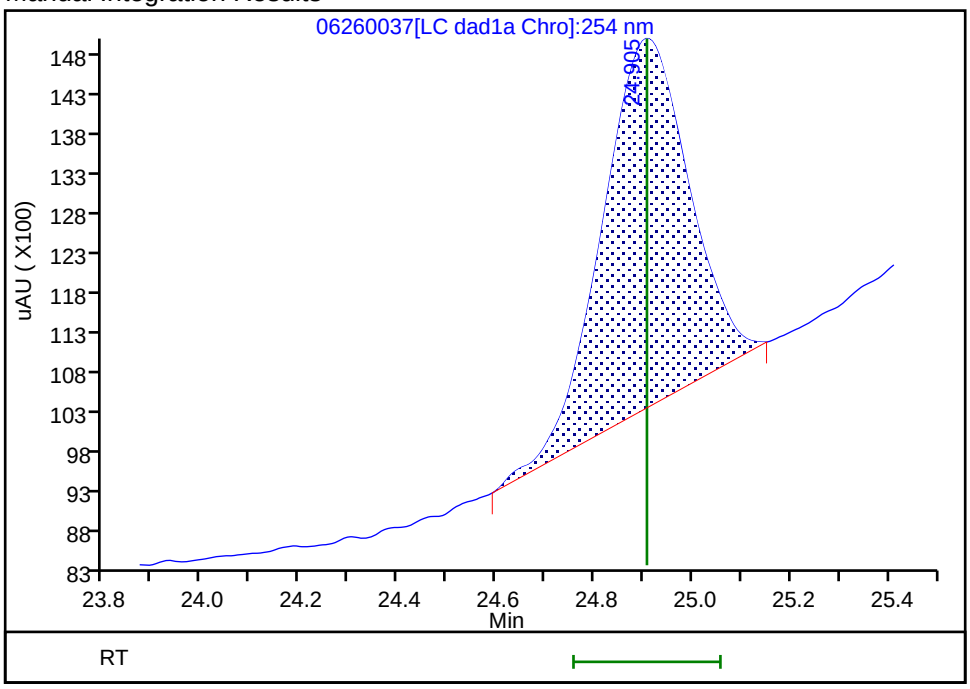
Processing Integration Results

RT: 24.90
Area: 74501
Amount: 0.177642
Amount Units: ug/ml



Manual Integration Results

RT: 24.90
Area: 57192
Amount: 0.134543
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 16:54:55

Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

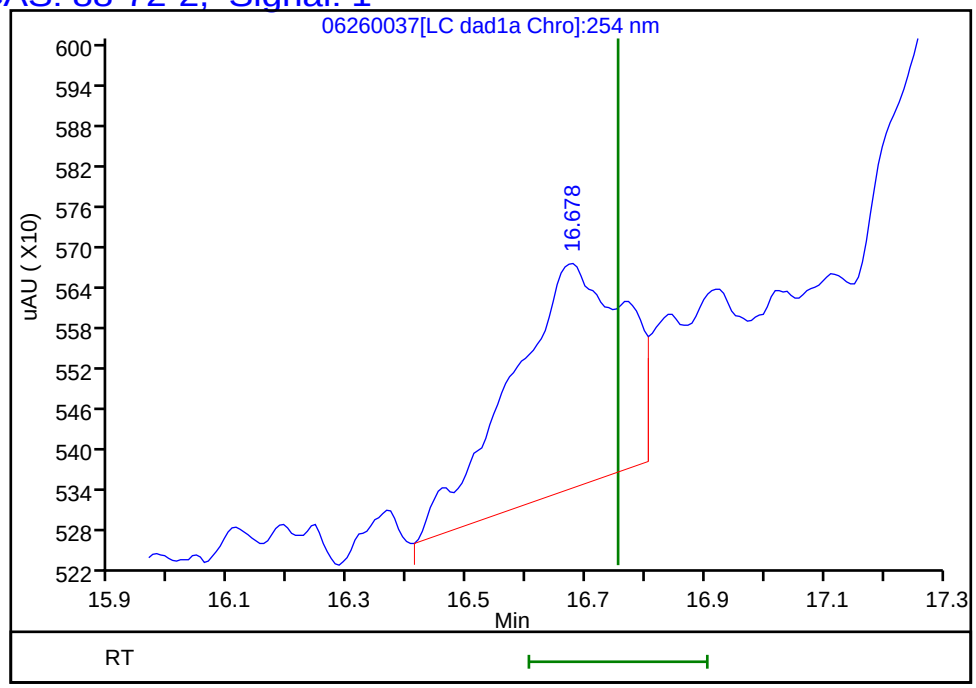
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260037.d

Injection Date:	27-Jun-2020 17:20:55	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.68
Response: 4424
Amount: 0.016207



Reviewer: zhangji, 01-Jul-2020 16:54:59
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

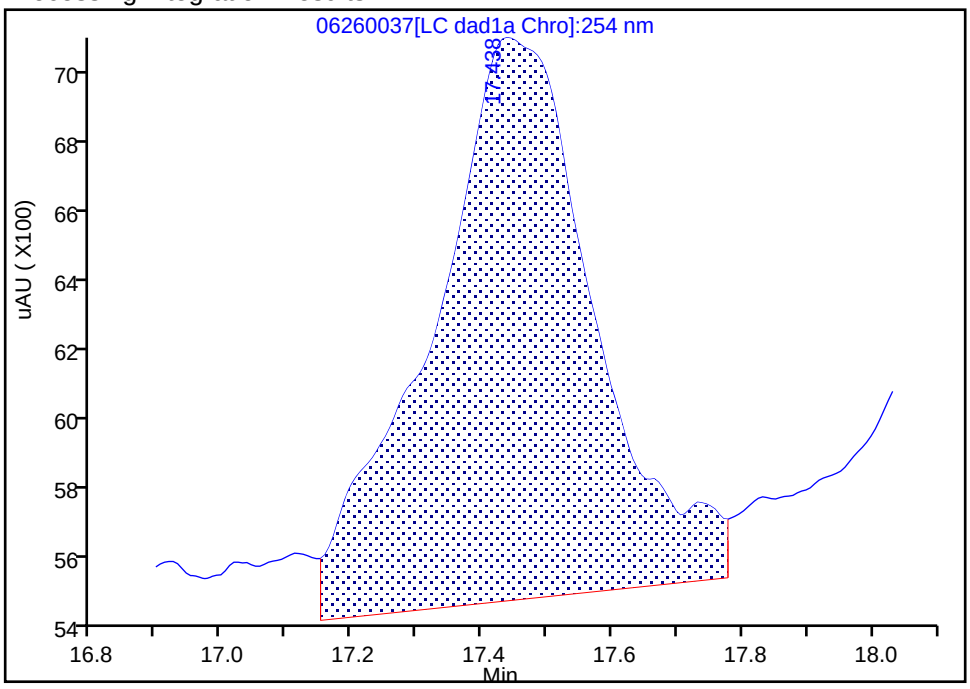
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260037.d				
Injection Date:	27-Jun-2020 17:20:55	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

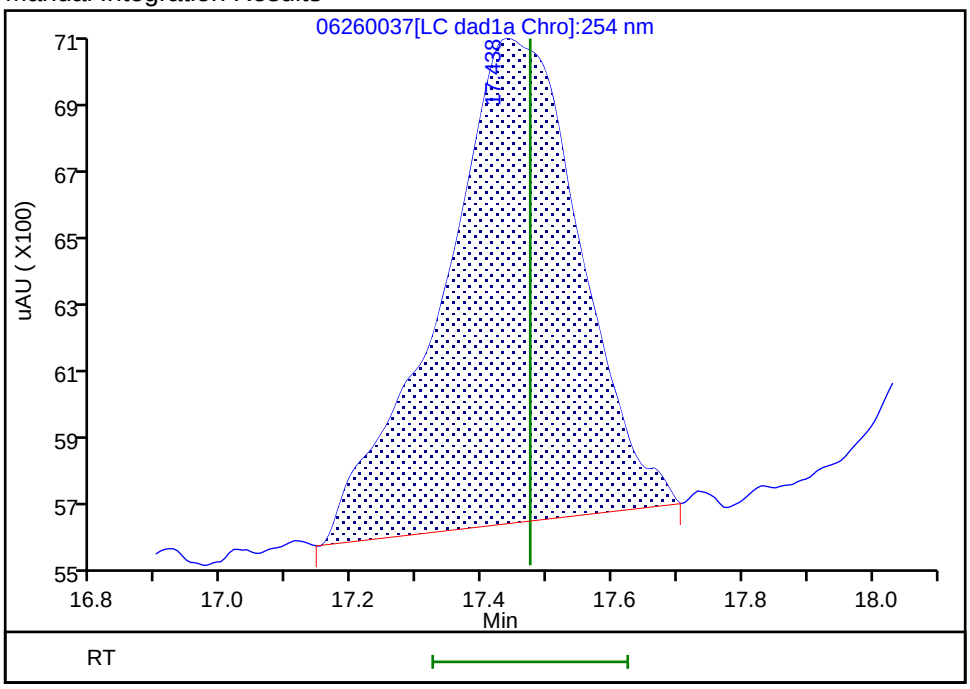
Processing Integration Results

RT: 17.44
Area: 27287
Amount: 0.079039
Amount Units: ug/ml



Manual Integration Results

RT: 17.44
Area: 20462
Amount: 0.059270
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 16:54:42

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

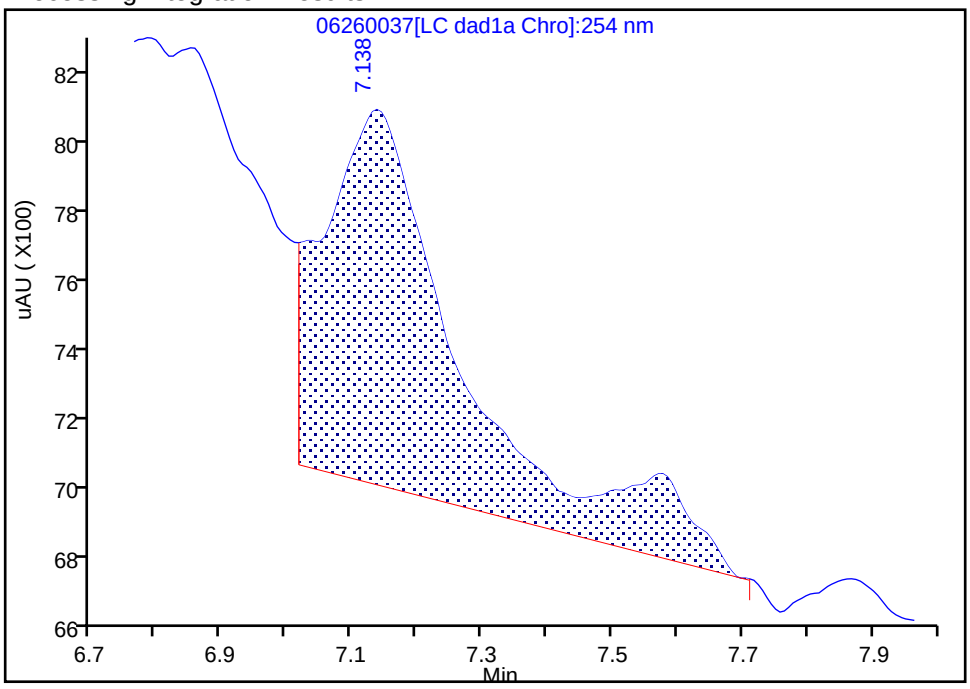
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260037.d				
Injection Date:	27-Jun-2020 17:20:55	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

6 HMX, CAS: 2691-41-0

Signal: 1

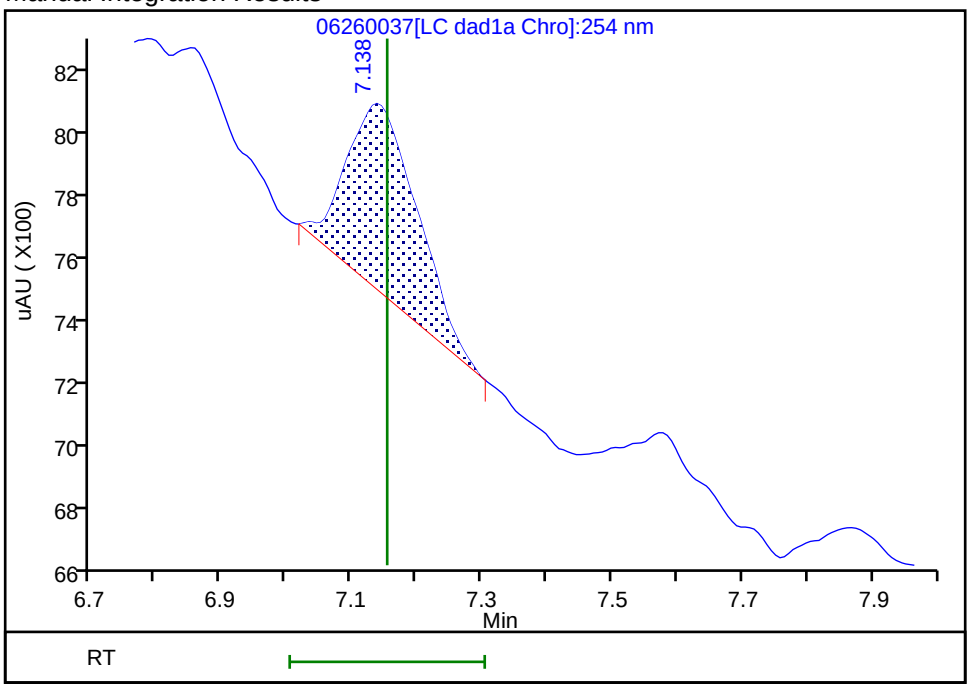
Processing Integration Results

RT: 7.14
Area: 15459
Amount: 0.057256
Amount Units: ug/ml



Manual Integration Results

RT: 7.14
Area: 4328
Amount: -0.005627
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 16:54:22

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

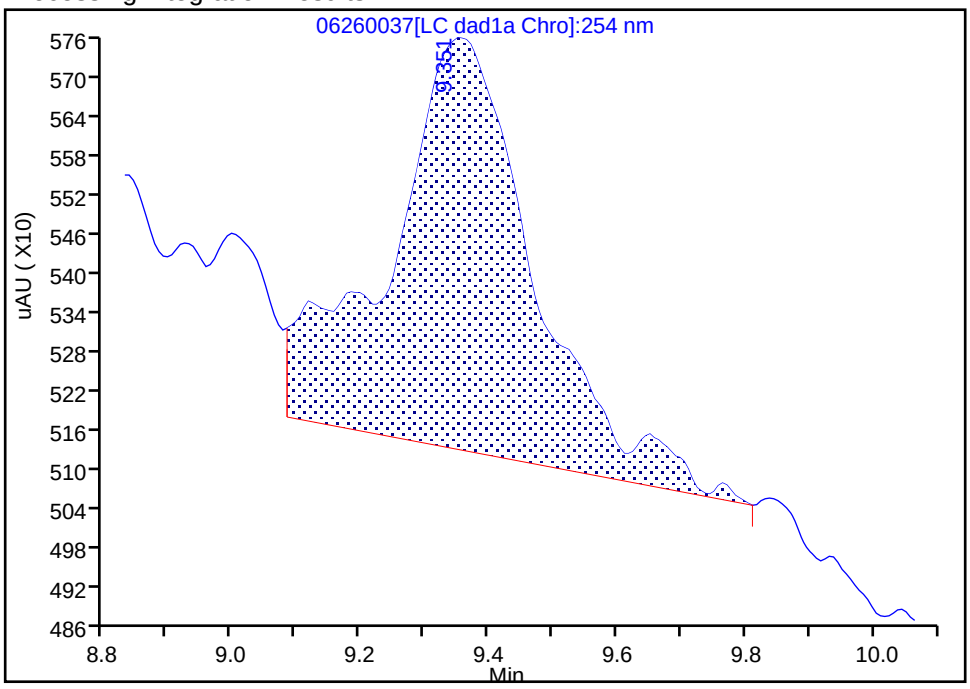
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260037.d				
Injection Date:	27-Jun-2020 17:20:55	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	37	Worklist Smp#:	37
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

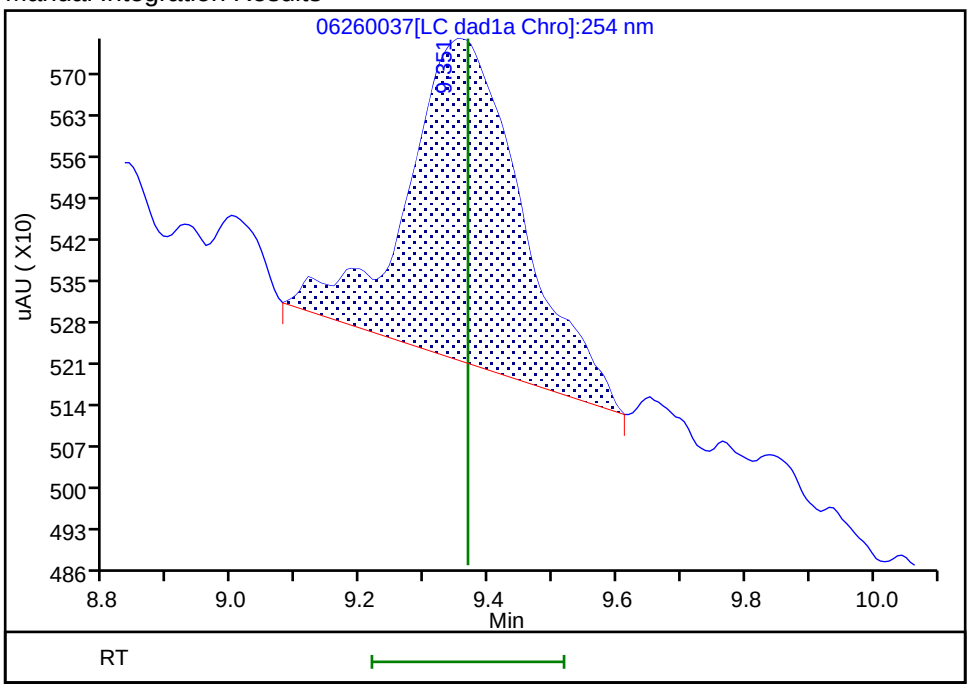
Processing Integration Results

RT: 9.35
Area: 9990
Amount: 0.040882
Amount Units: ug/ml



Manual Integration Results

RT: 9.35
Area: 6832
Amount: 0.027959
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 16:54:29
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0089-20A RE Lab Sample ID: 280-137736-13 RE

Matrix: Water Lab File ID: 06300032.D

Analysis Method: 8330A Date Collected: 06/15/2020 15:20

Extraction Method: 3535 Date Extracted: 06/30/2020 12:07

Sample wt/vol: 466.2(mL) Date Analyzed: 07/01/2020 03:54

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 500691 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	*1,3,5-Trinitrobenzene*	*1.8*	*M H*	*0.23*	0.21	*0.090*
99-65-0	*1,3-Dinitrobenzene*	*0.11*	*U H*	*0.12*	0.11	*0.040*
118-96-7	*2,4,6-Trinitrotoluene*	*1.6*	*H*	*0.12*	0.11	*0.048*
121-14-2	*2,4-Dinitrotoluene*	*0.086*	*U H*	*0.11*	0.086	*0.029*
606-20-2	*2,6-Dinitrotoluene*	*0.086*	*U H Q*	*0.11*	0.086	*0.043*
35572-78-2	*2-Amino-4,6-dinitrotoluene*	*0.11*	*U M H*	*0.12*	0.11	*0.054*
88-72-2	*2-Nitrotoluene*	*0.21*	*U H*	*0.23*	0.21	*0.092*
99-08-1	*3-Nitrotoluene*	*0.43*	*U H*	*0.43*	0.43	*0.21*
19406-51-0	*4-Amino-2,6-dinitrotoluene*	*0.13*	*U M H*	*0.16*	0.13	*0.062*
99-99-0	*4-Nitrotoluene*	*0.43*	*U H*	*0.44*	0.43	*0.11*
2691-41-0	*HMX*	*0.21*	*U H*	*0.23*	0.21	*0.094*
5755-27-1	*MNX*	*0.43*	*U M H*	*2.1*	0.43	*0.17*
121-82-4	*RDX*	*0.21*	*U H*	*0.23*	0.21	*0.055*
479-45-8	*Tetryl*	*0.11*	*U M H*	*0.12*	0.11	*0.034*

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	100	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300032.D
Lims ID: 280-137736-B-13-A
Client ID: G0089-20A
Sample Type: Client
Inject. Date: 01-Jul-2020 03:54:59 ALS Bottle#: 32 Worklist Smp#: 32
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-B-13-
Misc. Info.: 280-0092909-032
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 01-Jul-2020 15:06:12 Calib Date: 26-Jun-2020 01:16:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1062

First Level Reviewer: zhangji Date: 01-Jul-2020 14:58:35

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 HMX	1		6.710			ND	
	6 MNX	1		7.386			ND	U
	7 RDX	1		7.783			ND	
$	9 1,2-Dinitrobenzene	1	8.769	8.757	0.012	27762	0.2009	M
	10 1,3,5-Trinitrobenzene	1	8.942	8.930	0.012	39282	0.1706	M
	11 1,3-Dinitrobenzene	1		9.583			ND	
	12 Nitrobenzene	1	9.969	9.963	0.006	2024	0.0101	
	14 Tetryl	1		10.283			ND	U
	16 2,4,6-Trinitrotoluene	1	11.289	11.250	0.039	30617	0.1501	
	17 4-Amino-2,6-dinitrotoluene	1		11.423			ND	U
	18 2-Amino-4,6-dinitrotoluene	1		11.710			ND	U
	19 2,6-Dinitrotoluene	1		11.850			ND	
	20 2,4-Dinitrotoluene	1		12.050			ND	
	21 o-Nitrotoluene	1		12.883			ND	
	22 p-Nitrotoluene	1		13.323			ND	
	23 m-Nitrotoluene	1		13.923			ND	

QC Flag Legend

Review Flags
M - Manually Integrated
U - Marked Undetected

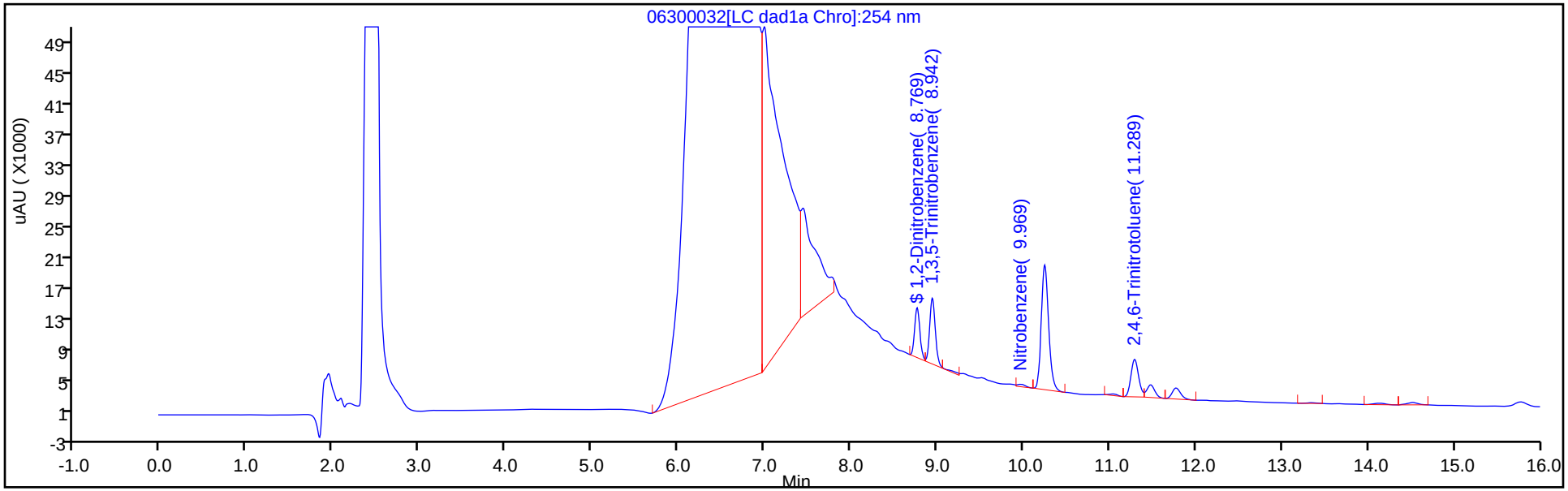
Report Date: 01-Jul-2020 15:06:17 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

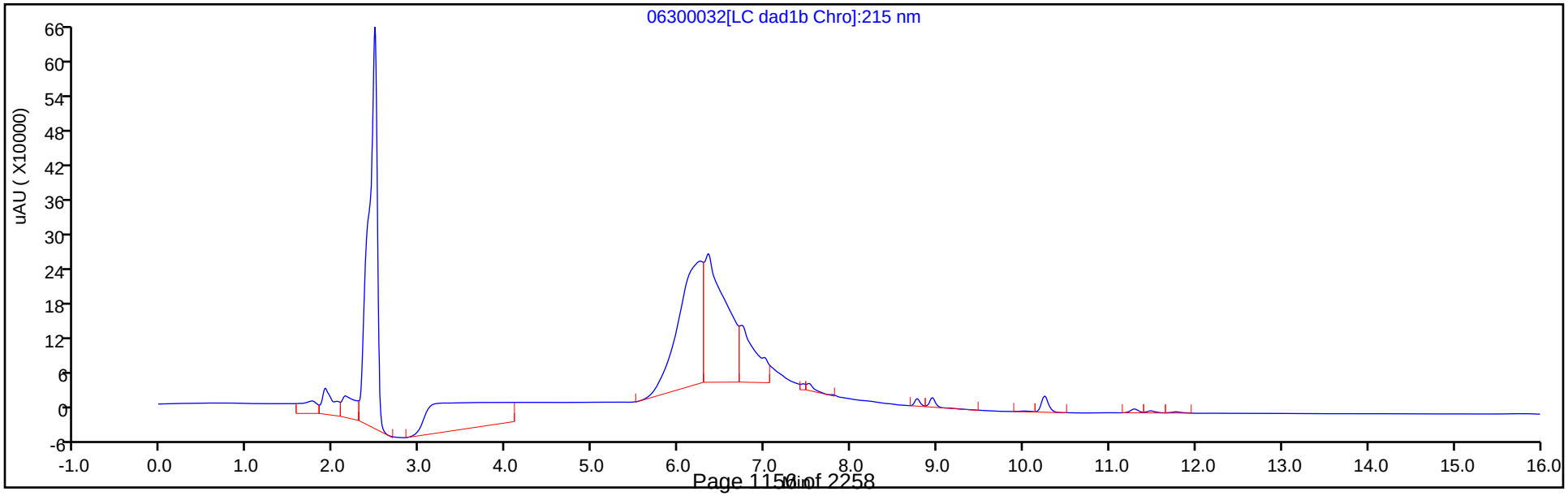
Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300032.d

Injection Date:	01-Jul-2020 03:54:59	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-B-13-A	Lab Sample ID:	280-137736-13	Worklist Smp#:	32
Client ID:	G0089-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300032.D				
Lims ID:	280-137736-B-13-A				
Client ID:	G0089-20A				
Sample Type:	Client				
Inject. Date:	01-Jul-2020 03:54:59	ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-B-13-				
Misc. Info.:	280-0092909-032				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	01-Jul-2020 15:06:12	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1062				

First Level Reviewer: zhangji Date: 01-Jul-2020 14:58:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.2009	100.43

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

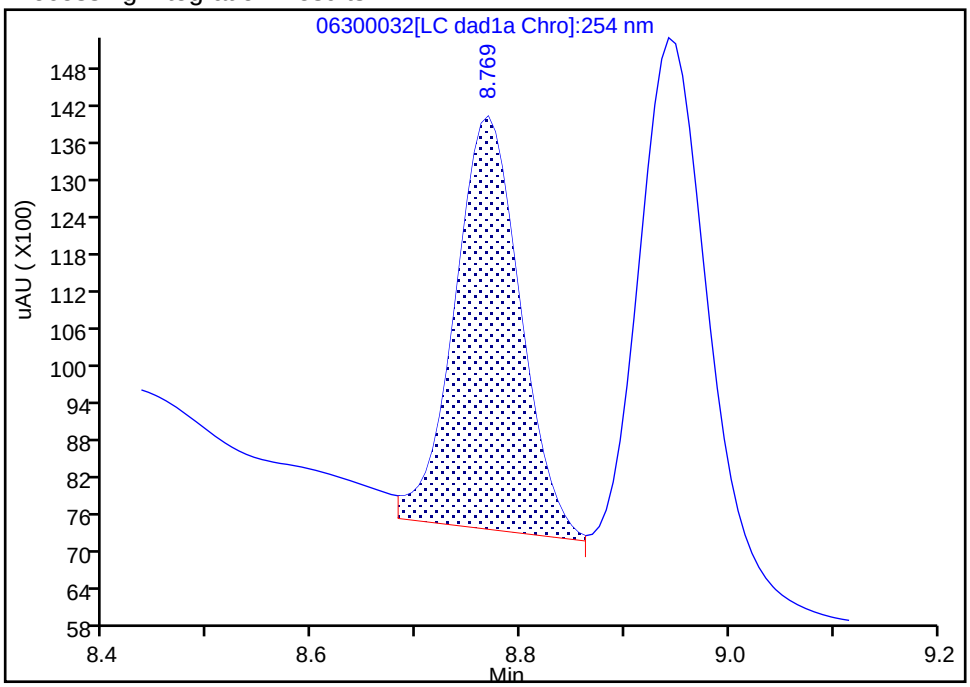
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300032.d				
Injection Date:	01-Jul-2020 03:54:59	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

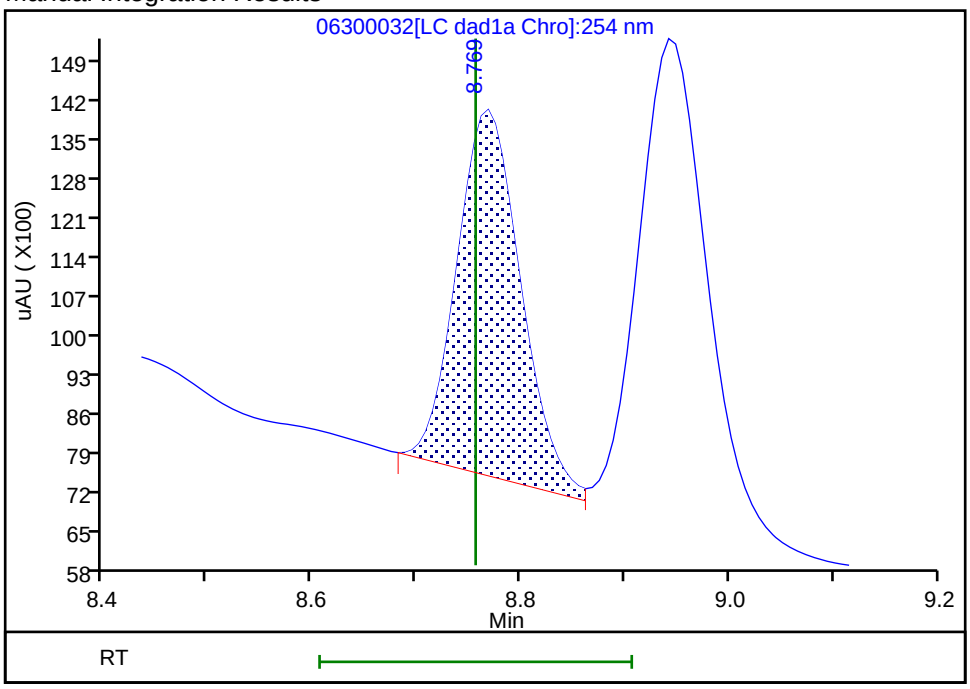
Processing Integration Results

RT: 8.77
Area: 29020
Amount: 0.209967
Amount Units: ug/mL



Manual Integration Results

RT: 8.77
Area: 27762
Amount: 0.200865
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:58:25
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

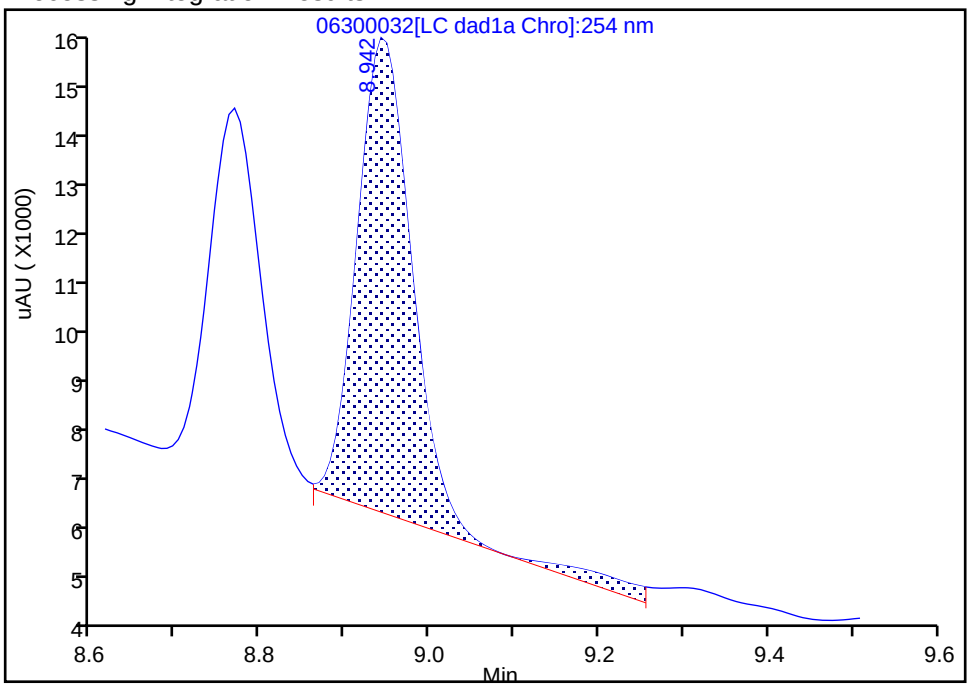
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300032.d				
Injection Date:	01-Jul-2020 03:54:59	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

10 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

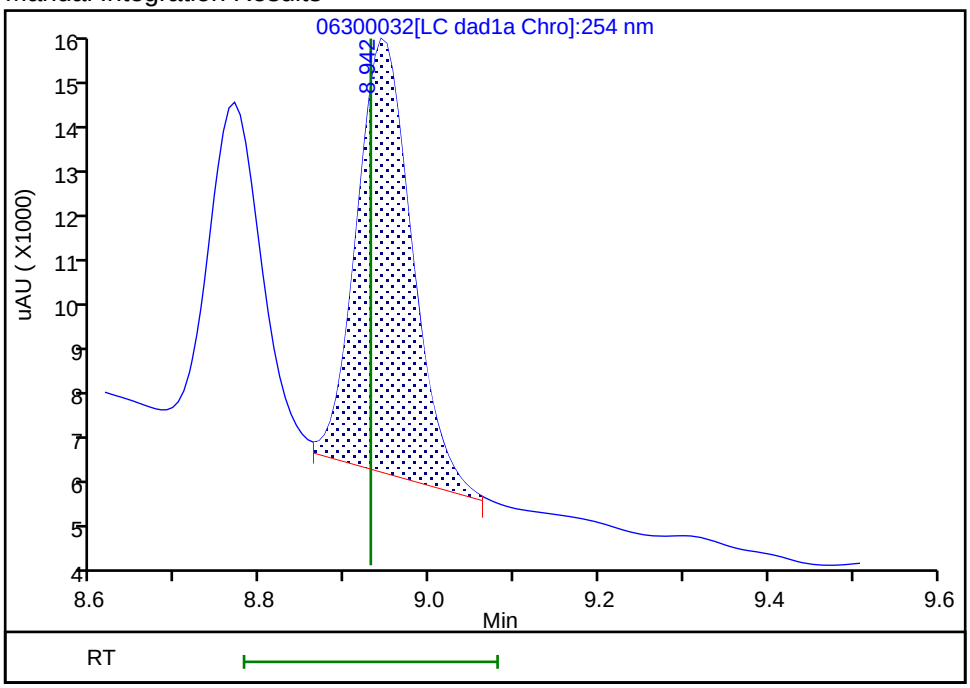
Processing Integration Results

RT: 8.94
Area: 39966
Amount: 0.173532
Amount Units: ug/mL



Manual Integration Results

RT: 8.94
Area: 39282
Amount: 0.170562
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:58:28

Audit Action: Split an Integrated Peak Audit Reason: Baseline

User Disabled Compound Report

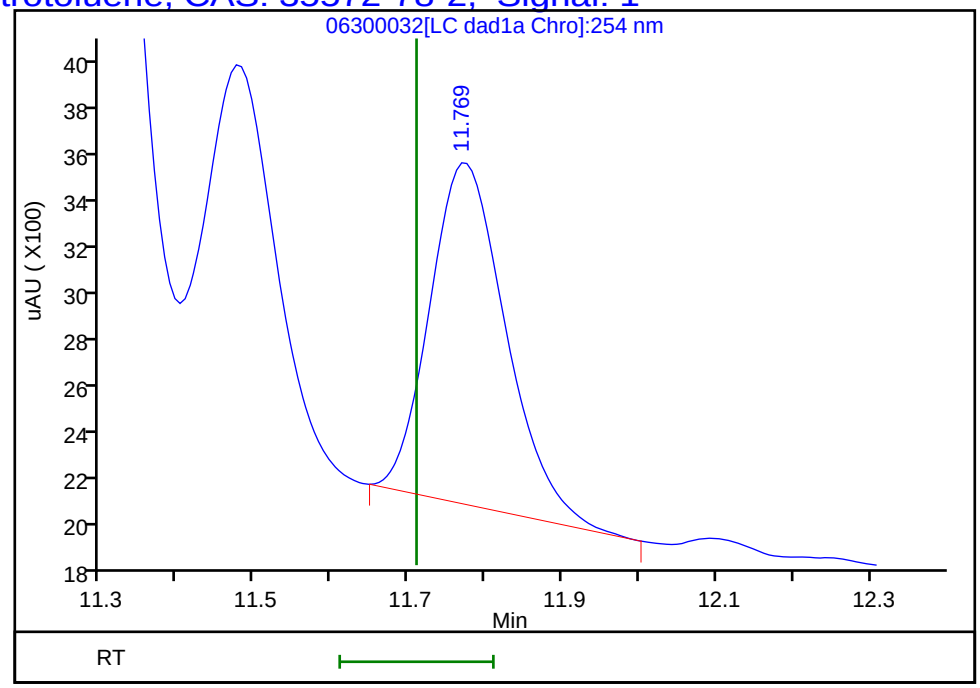
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300032.d

Injection Date:	01-Jul-2020 03:54:59	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2, Signal: 1

RT: 11.77
Response: 9978
Amount: 0.049197



Reviewer: zhangji, 01-Jul-2020 14:58:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

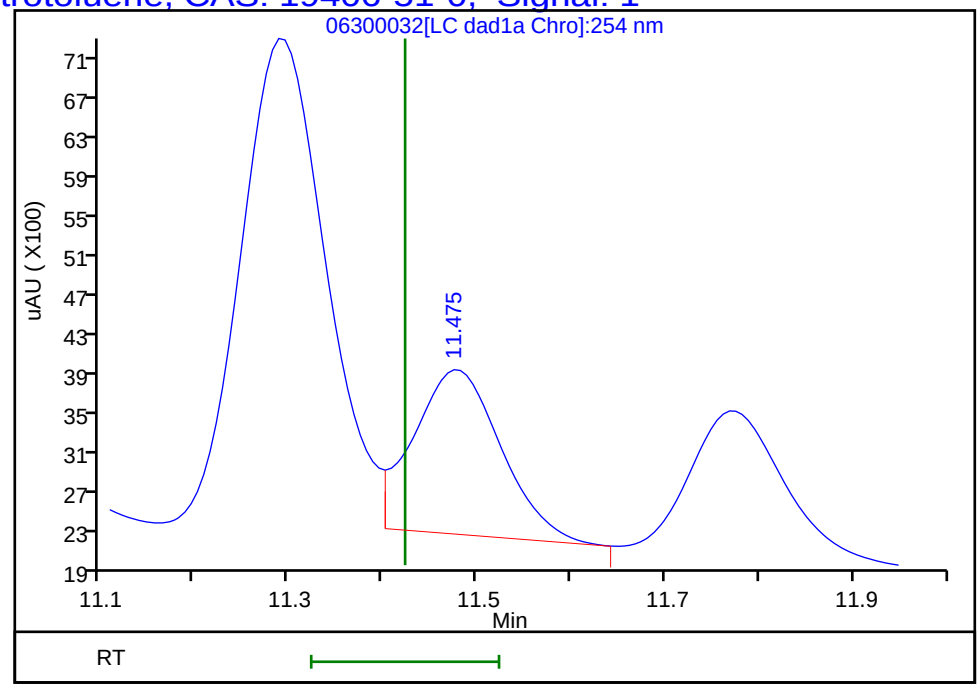
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300032.d

Injection Date:	01-Jul-2020 03:54:59	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

17 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0, Signal: 1

RT: 11.48
Response: 10607
Amount: 0.065989



Reviewer: zhangji, 01-Jul-2020 14:58:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

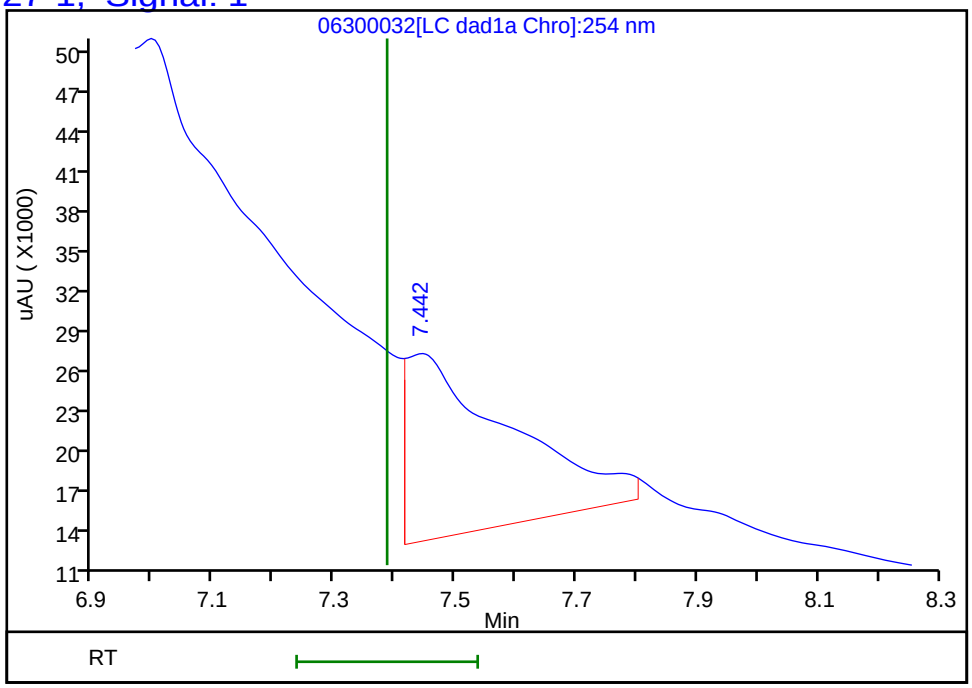
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300032.d				
Injection Date:	01-Jul-2020 03:54:59	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.44
Response: 163404
Amount: 1.030653



Reviewer: zhangji, 01-Jul-2020 14:58:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

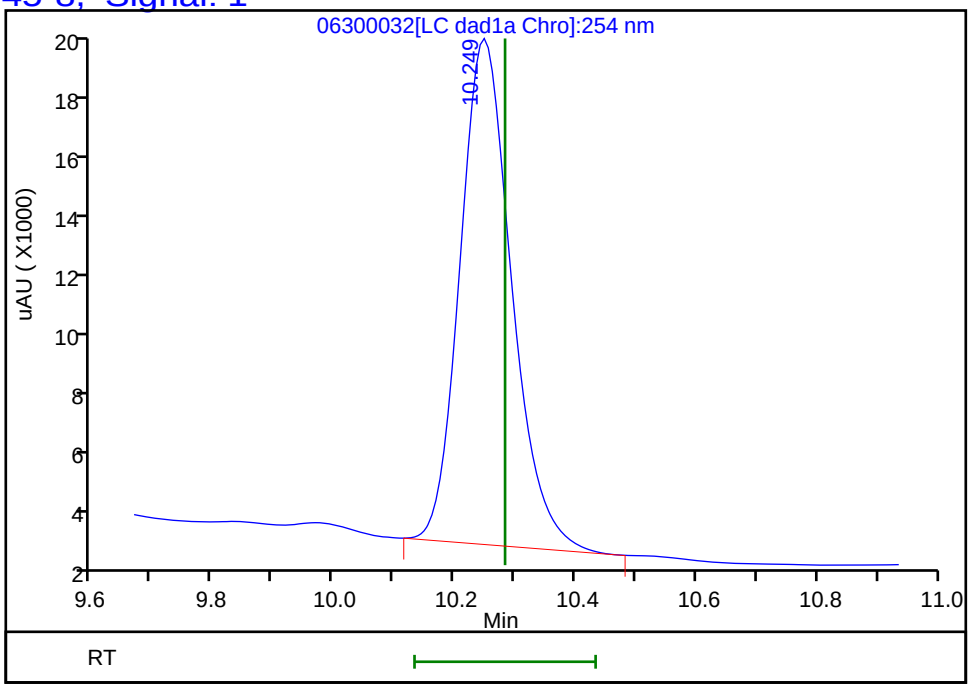
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300032.d				
Injection Date:	01-Jul-2020 03:54:59	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.25
Response: 96844
Amount: 0.547042



Reviewer: zhangji, 01-Jul-2020 14:58:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0089-20A RE Lab Sample ID: 280-137736-13 RE

Matrix: Water Lab File ID: 07010017.D

Analysis Method: 8330A Date Collected: 06/15/2020 15:20

Extraction Method: 3535 Date Extracted: 06/30/2020 12:07

Sample wt/vol: 466.2(mL) Date Analyzed: 07/02/2020 04:11

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

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

Analysis Batch No.: 500847 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
98-95-3	*Nitrobenzene*	*0.21*	*U H*	*0.23*	0.21	*0.098*

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	100		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\07010017.D
Lims ID: 280-137736-B-13-A
Client ID: G0089-20A
Sample Type: Client
Inject. Date: 02-Jul-2020 04:11:32 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-B-13-
Misc. Info.: 280-0092951-017
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 02-Jul-2020 15:28:45 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1059

First Level Reviewer: zhangji Date: 02-Jul-2020 15:22:54

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
	6 HMX	1	7.247	7.244	0.003	8461	0.0177	M
	7 MNX	1		7.943			ND	
	8 RDX	1	9.480	9.477	0.003	6102	0.0250	M
	9 Nitrobenzene	1		12.370			ND	
$	10 1,2-Dinitrobenzene	1	13.407	13.417	-0.010	57261	0.1999	
	12 1,3-Dinitrobenzene	1		15.943			ND	
	14 o-Nitrotoluene	1		16.863			ND	MU
	15 p-Nitrotoluene	1		17.150			ND	
	16 4-Amino-2,6-dinitrotoluene	1	17.627	17.630	-0.003	24057	0.0697	M
	17 m-Nitrotoluene	1		18.083			ND	MU
	18 2-Amino-4,6-dinitrotoluene	1	18.574	18.590	-0.016	22400	0.0482	
	19 1,3,5-Trinitrobenzene	1	19.254	19.270	-0.016	77820	0.1647	
	20 2,6-Dinitrotoluene	1		20.203			ND	
	21 2,4-Dinitrotoluene	1	20.714	20.724	-0.009	1924	0.003006	7M
	22 Tetryl	1		24.050			ND	
	23 2,4,6-Trinitrotoluene	1	25.000	25.030	-0.030	54347	0.1275	M

QC Flag Legend

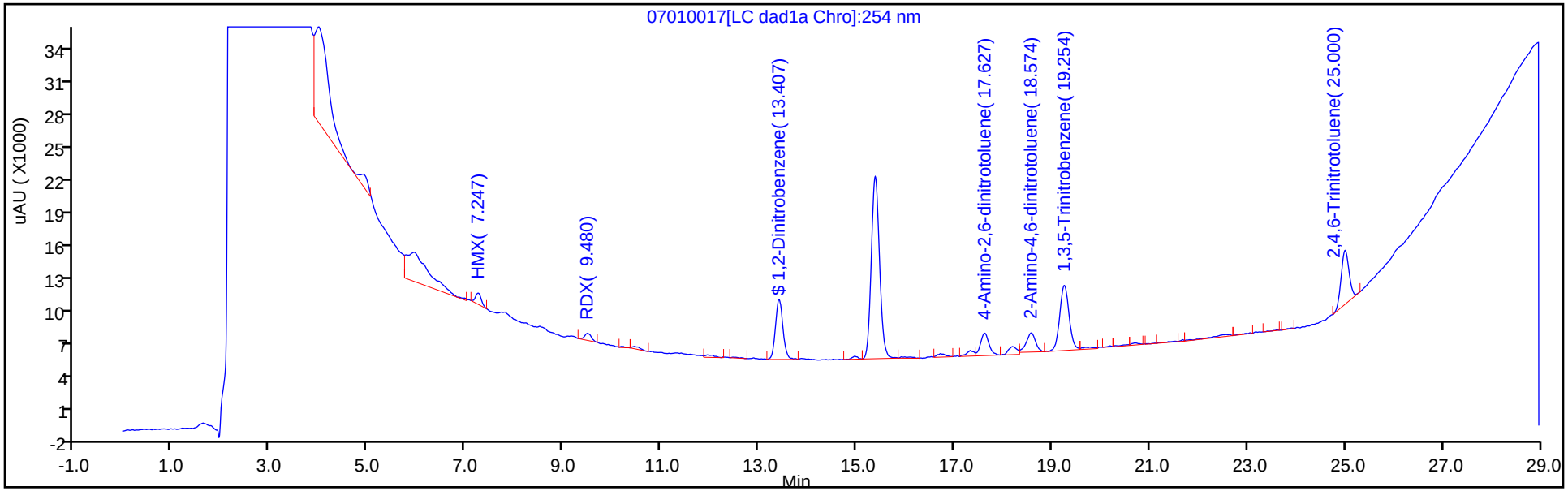
Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 02-Jul-2020 15:28:50 Chrom Revision: 2.3 21-Jun-2020 18:30:46

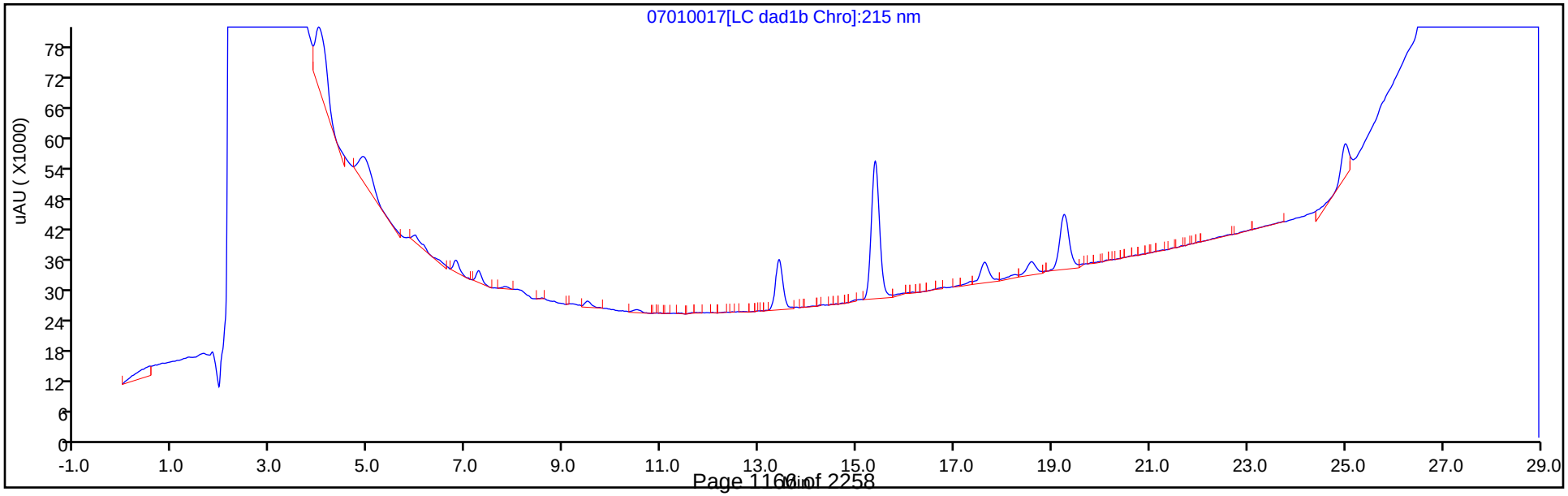
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010017.d				
Injection Date:	02-Jul-2020 04:11:32	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137736-B-13-A	Lab Sample ID:	280-137736-13	Worklist Smp#:	17
Client ID:	G0089-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\07010017.D				
Lims ID:	280-137736-B-13-A				
Client ID:	G0089-20A				
Sample Type:	Client				
Inject. Date:	02-Jul-2020 04:11:32	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-B-13-				
Misc. Info.:	280-0092951-017				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	02-Jul-2020 15:28:45	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1059				
First Level Reviewer: zhangji		Date:	02-Jul-2020 15:22:54		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1999	99.96

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

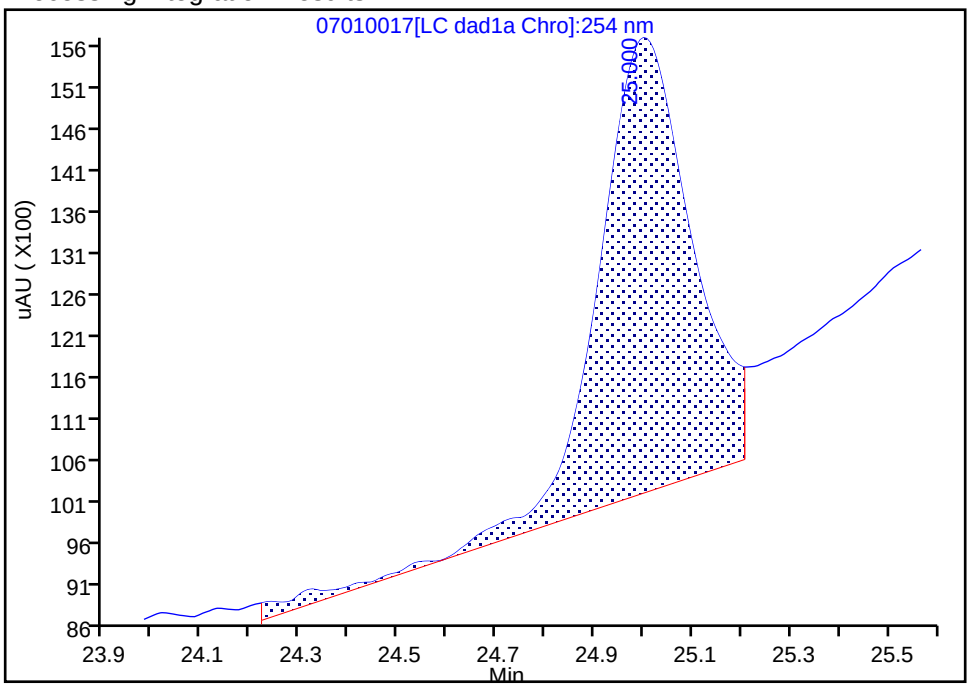
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010017.d				
Injection Date:	02-Jul-2020 04:11:32	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

23 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

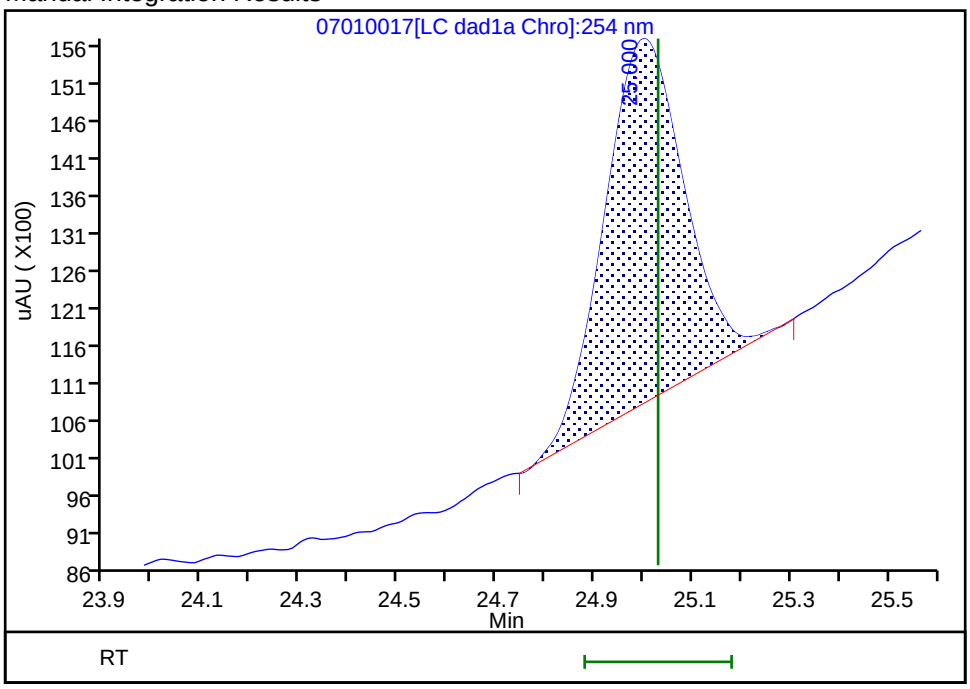
Processing Integration Results

RT: 25.00
Area: 73602
Amount: 0.175404
Amount Units: ug/ml



Manual Integration Results

RT: 25.00
Area: 54347
Amount: 0.127459
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:22:52

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

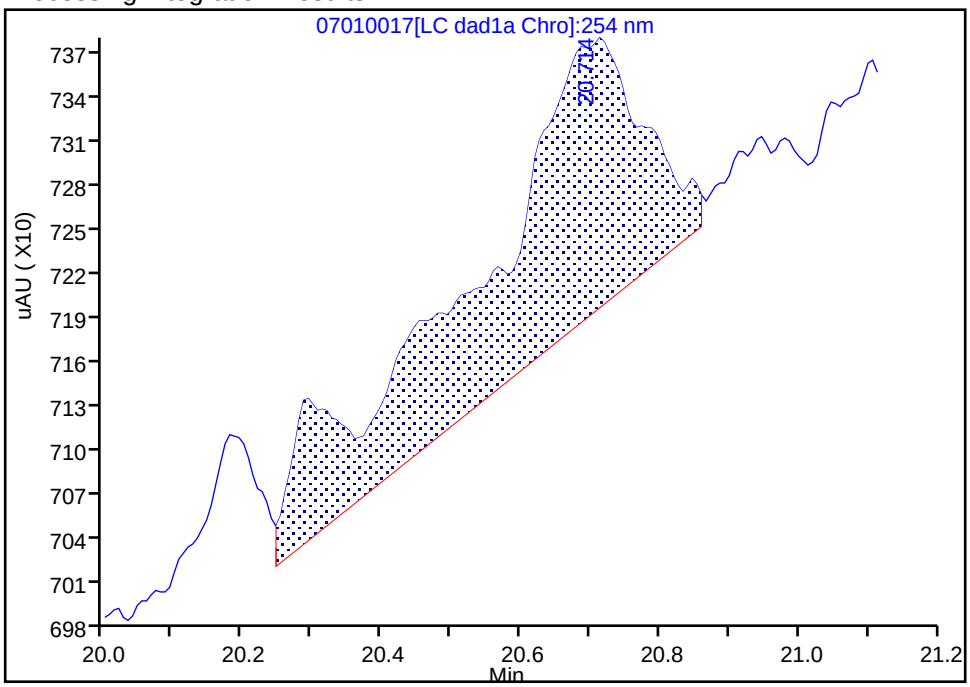
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010017.d				
Injection Date:	02-Jul-2020 04:11:32	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

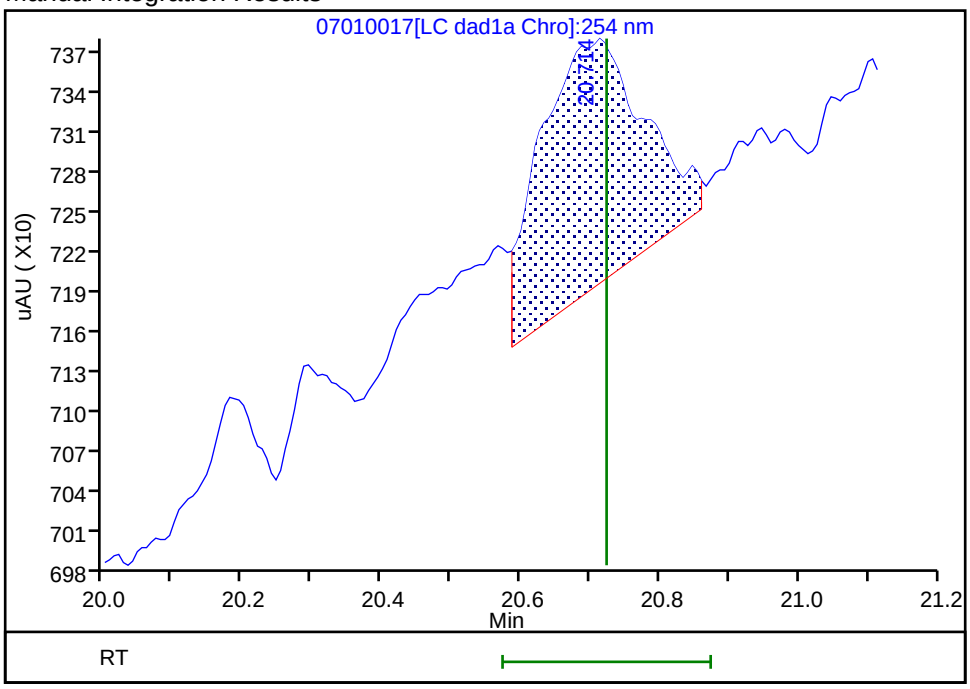
Processing Integration Results

RT: 20.71
Area: 3353
Amount: 0.005238
Amount Units: ug/ml



Manual Integration Results

RT: 20.71
Area: 1924
Amount: 0.003006
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:22:45

Audit Action: Split an Integrated Peak Audit Reason: Baseline

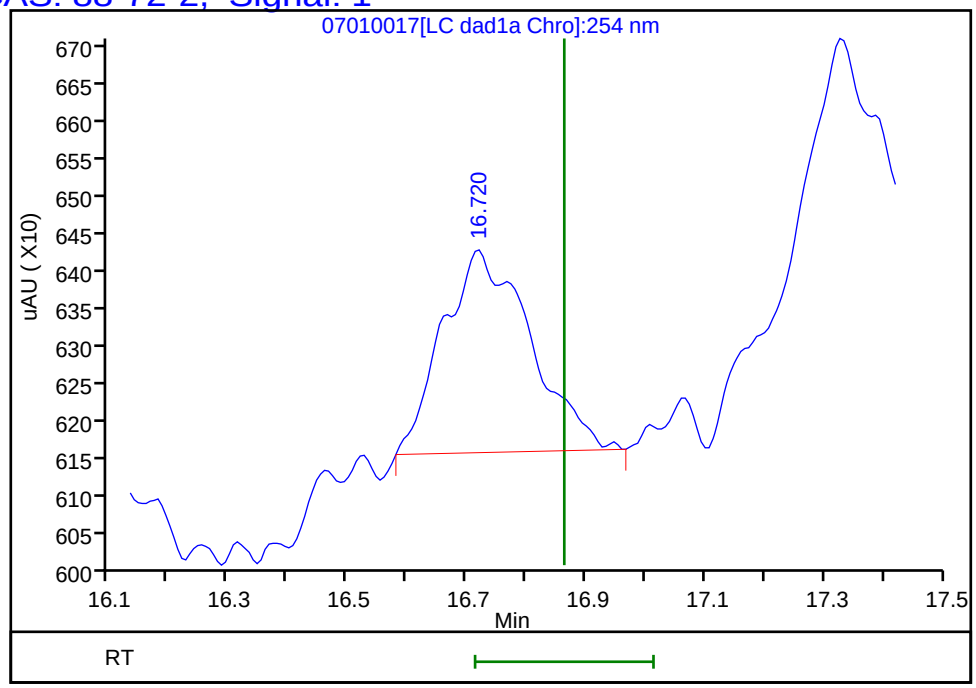
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010017.d				
Injection Date:	02-Jul-2020 04:11:32	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.72
Response: 2754
Amount: 0.010089



Reviewer: zhangji, 02-Jul-2020 15:22:54
Audit Action: Assigned New Baseline Audit Reason: Baseline

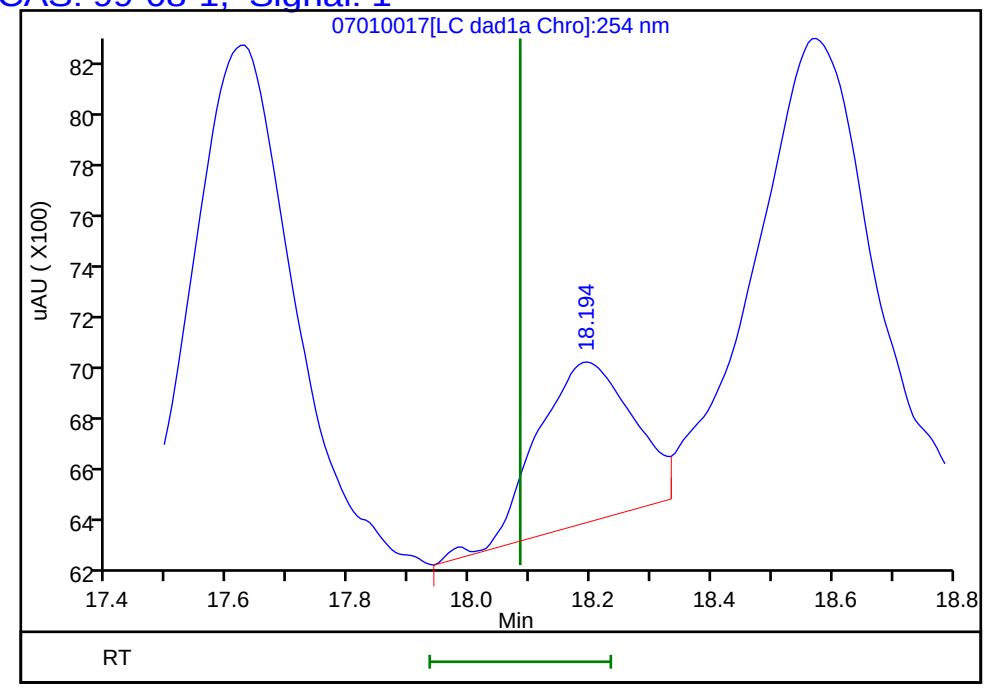
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010017.d				
Injection Date:	02-Jul-2020 04:11:32	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 18.19
Response: 6701
Amount: 0.022462



Reviewer: zhangji, 02-Jul-2020 15:22:54
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

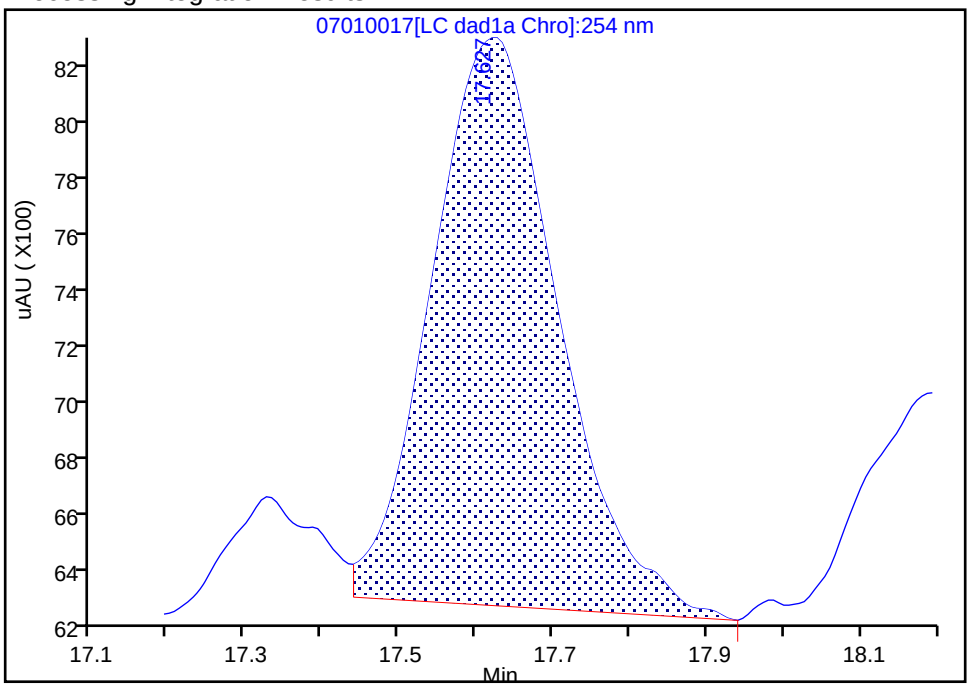
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010017.d				
Injection Date:	02-Jul-2020 04:11:32	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

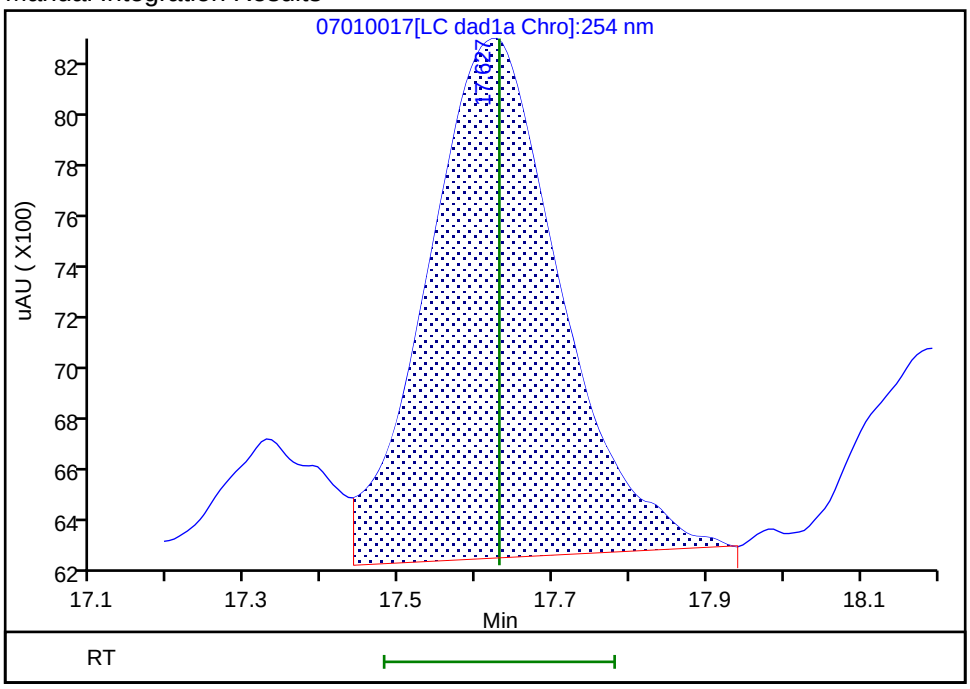
Processing Integration Results

RT: 17.63
Area: 21882
Amount: 0.063383
Amount Units: ug/ml



Manual Integration Results

RT: 17.63
Area: 24057
Amount: 0.069683
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:22:37

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

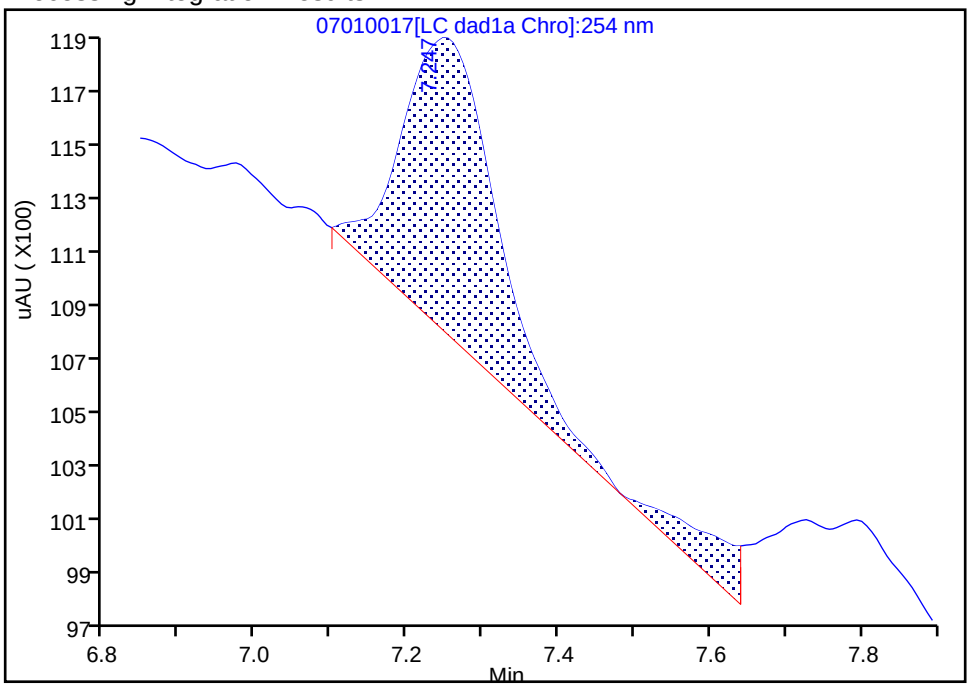
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010017.d				
Injection Date:	02-Jul-2020 04:11:32	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

6 HMX, CAS: 2691-41-0

Signal: 1

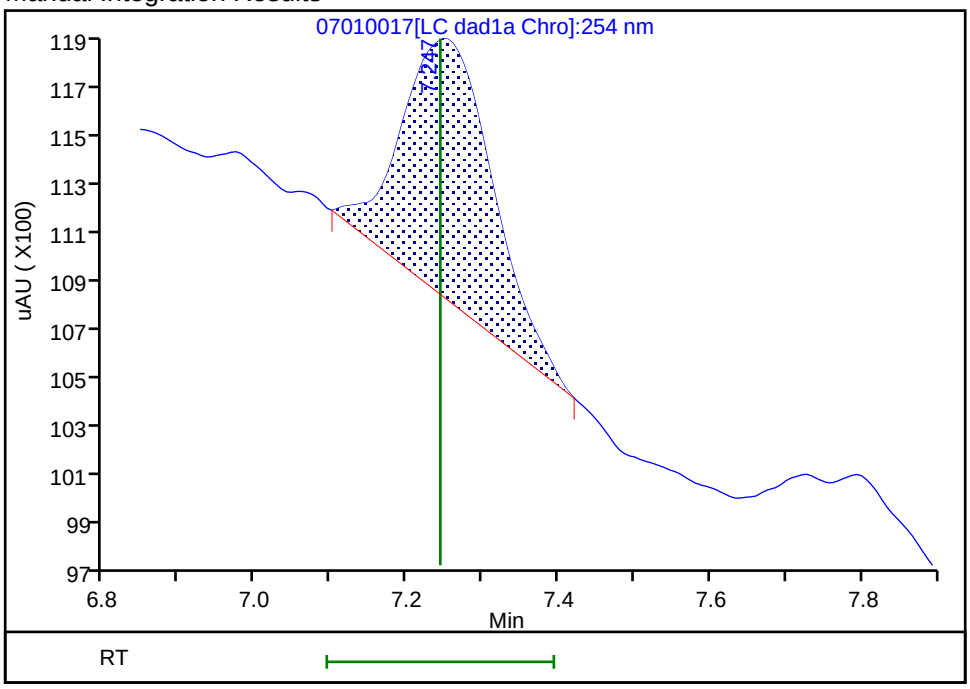
Processing Integration Results

RT: 7.25
Area: 10052
Amount: 0.026710
Amount Units: ug/ml



Manual Integration Results

RT: 7.25
Area: 8461
Amount: 0.017722
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:22:22

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

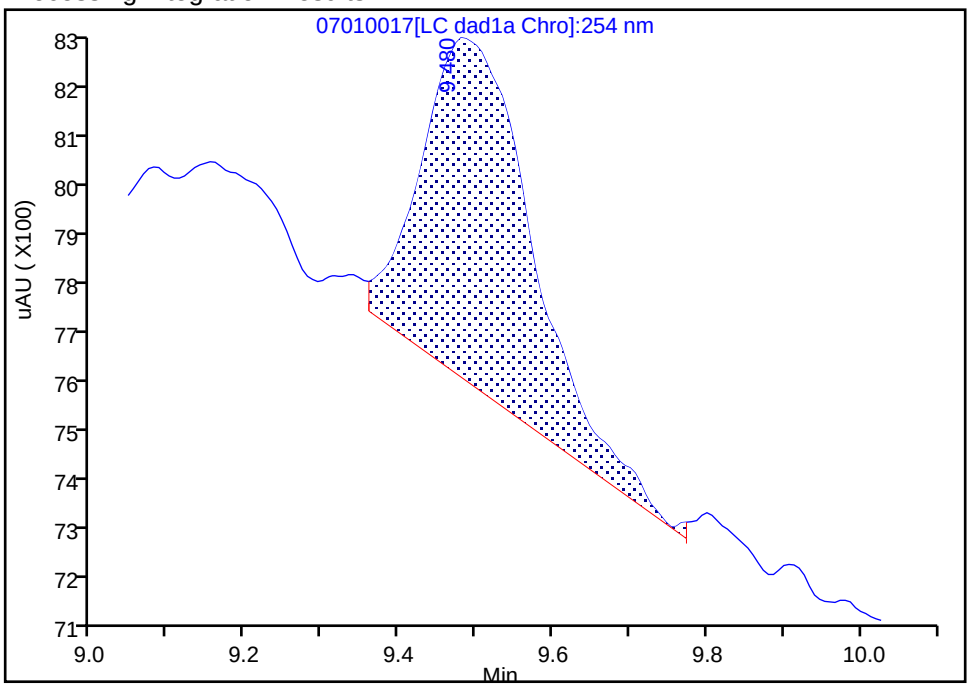
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010017.d				
Injection Date:	02-Jul-2020 04:11:32	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-B-13-A	Lab Sample ID:	280-137736-13		
Client ID:	G0089-20A				
Operator ID:	JZ	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

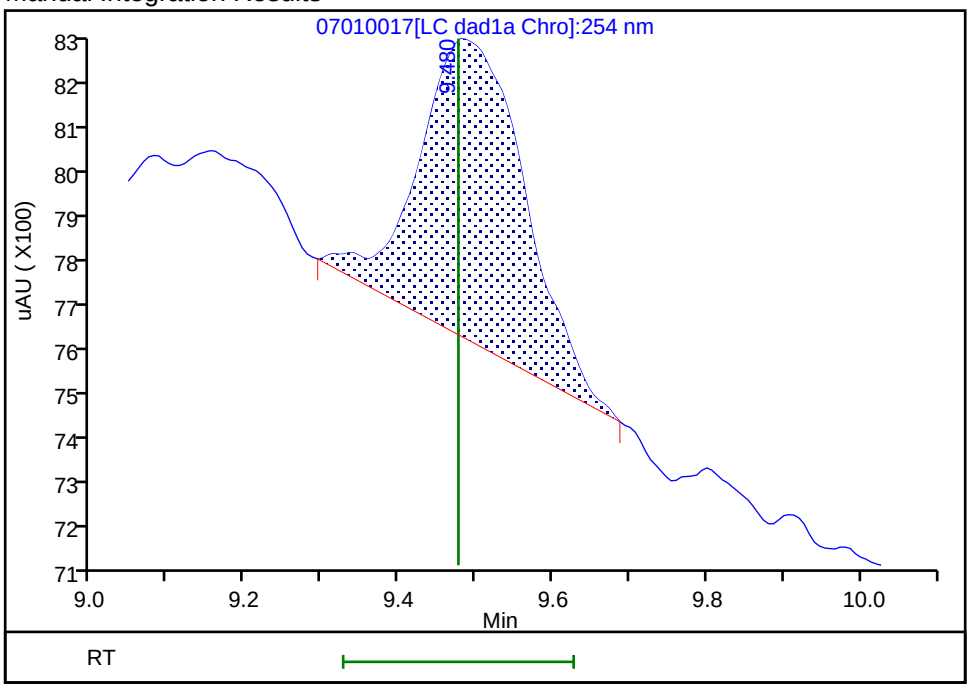
Processing Integration Results

RT: 9.48
Area: 6626
Amount: 0.027116
Amount Units: ug/ml



Manual Integration Results

RT: 9.48
Area: 6102
Amount: 0.024971
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:22:28
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0077-20A Lab Sample ID: 280-137736-14

Matrix: Water Lab File ID: 06240028.D

Analysis Method: 8330A Date Collected: 06/15/2020 13:20

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 474.2(mL) Date Analyzed: 06/25/2020 00:19

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499988 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	1.9	Q	0.22	0.21	0.089
99-65-0	1,3-Dinitrobenzene	0.11	U Q M	0.12	0.11	0.039
118-96-7	2,4,6-Trinitrotoluene	3.3	Q	0.12	0.11	0.047
121-14-2	2,4-Dinitrotoluene	0.084	U Q	0.11	0.084	0.029
606-20-2	2,6-Dinitrotoluene	0.084	U Q	0.11	0.084	0.042
35572-78-2	2-Amino-4,6-dinitrotoluene	1.2	Q	0.12	0.11	0.053
88-72-2	2-Nitrotoluene	0.21	U Q	0.22	0.21	0.090
99-08-1	3-Nitrotoluene	0.42	U Q	0.42	0.42	0.21
19406-51-0	4-Amino-2,6-dinitrotoluene	1.1	Q	0.16	0.13	0.061
99-99-0	4-Nitrotoluene	0.42	U Q M	0.43	0.42	0.11
2691-41-0	HMX	0.21	U Q	0.22	0.21	0.092
5755-27-1	MNX	0.42	U M	2.1	0.42	0.16
98-95-3	Nitrobenzene	0.21	U Q	0.22	0.21	0.096
121-82-4	RDX	0.46	Q	0.22	0.21	0.054
479-45-8	Tetryl	0.11	U Q M	0.12	0.11	0.034

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	77	Q	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240028.D
Lims ID: 280-137736-A-14-A
Client ID: G0077-20A
Sample Type: Client
Inject. Date: 25-Jun-2020 00:19:16 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-14-
Misc. Info.: 280-0092716-028
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:16 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:08:36

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 HMX	1		6.712			ND	
	6 MNX	1		7.384			ND	U
	7 RDX	1	7.782	7.785	-0.003	5076	0.0435	
$	9 1,2-Dinitrobenzene	1	8.748	8.738	0.010	21407	0.1549	
	10 1,3,5-Trinitrobenzene	1	8.928	8.918	0.010	40751	0.1769	
	11 1,3-Dinitrobenzene	1		9.565			ND	U
	12 Nitrobenzene	1		9.945			ND	
	14 Tetryl	1		10.252			ND	U
	16 2,4,6-Trinitrotoluene	1	11.201	11.225	-0.024	63283	0.3102	
	17 4-Amino-2,6-dinitrotoluene	1	11.361	11.385	-0.024	17685	0.1057	
	18 2-Amino-4,6-dinitrotoluene	1	11.655	11.678	-0.023	23082	0.1138	
	19 2,6-Dinitrotoluene	1		11.818			ND	
	20 2,4-Dinitrotoluene	1		12.018			ND	
	21 o-Nitrotoluene	1		12.845			ND	
	22 p-Nitrotoluene	1		13.272			ND	U
	23 m-Nitrotoluene	1		13.865			ND	

QC Flag Legend

Review Flags
U - Marked Undetected

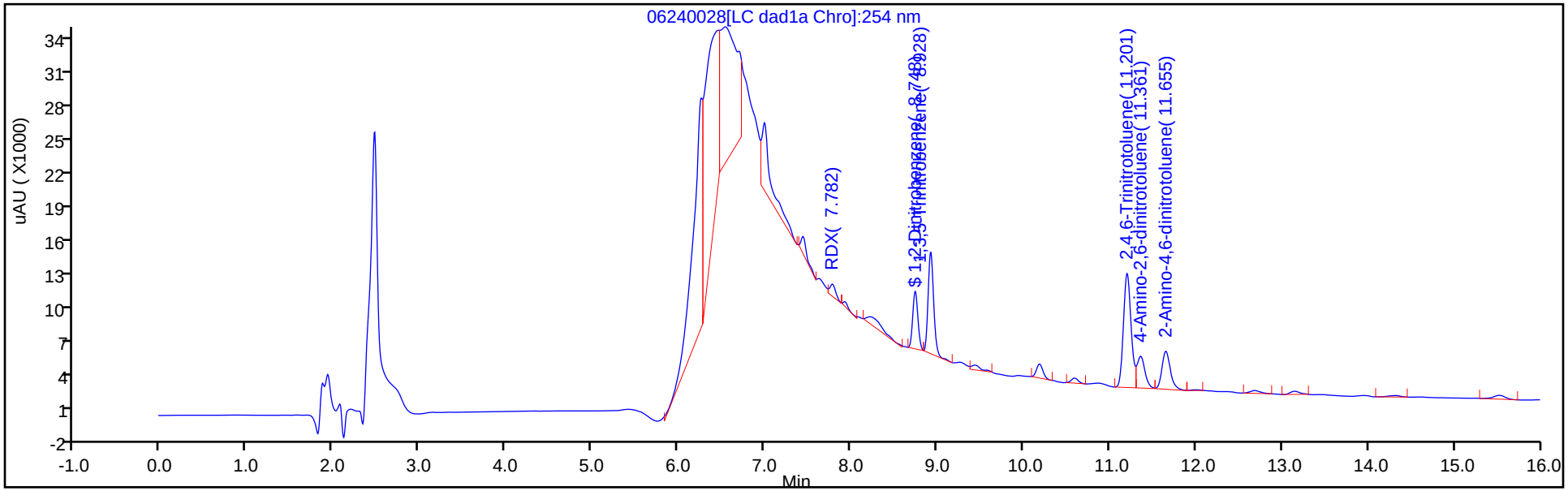
Report Date: 25-Jun-2020 21:10:20 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

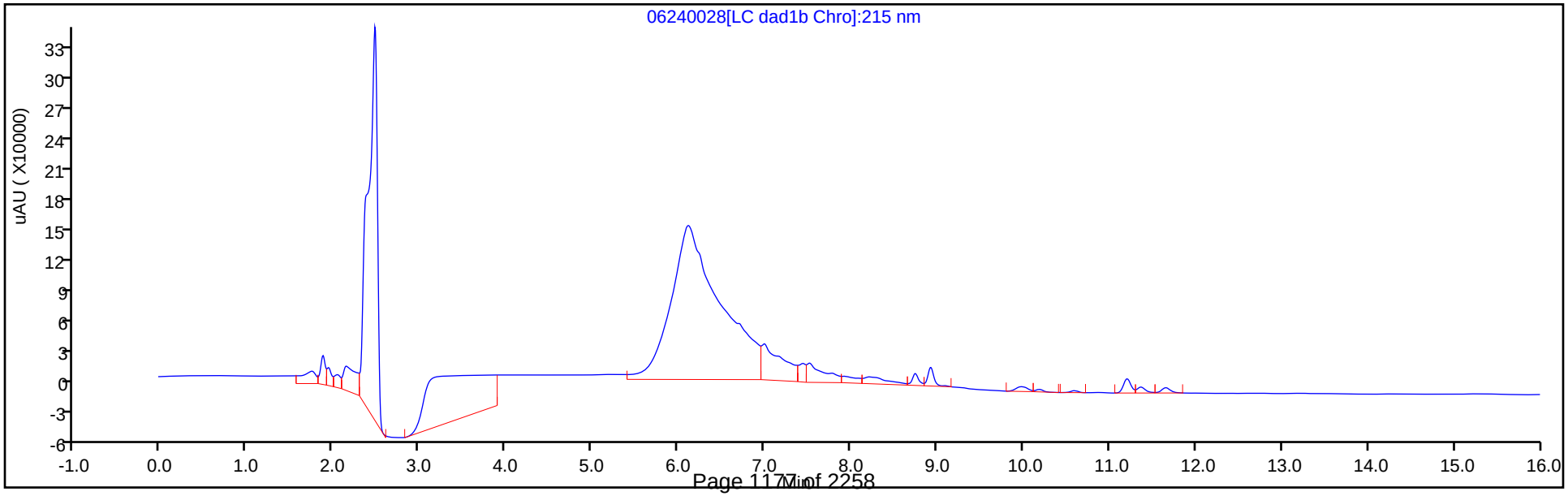
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240028.d

Injection Date:	25-Jun-2020 00:19:16	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-A-14-A	Lab Sample ID:	280-137736-14	Worklist Smp#:	28
Client ID:	G0077-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240028.D				
Lims ID:	280-137736-A-14-A				
Client ID:	G0077-20A				
Sample Type:	Client				
Inject. Date:	25-Jun-2020 00:19:16	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-14-				
Misc. Info.:	280-0092716-028				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	25-Jun-2020 21:10:16	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1063				

First Level Reviewer: zhangji Date: 25-Jun-2020 16:08:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1549	77.44

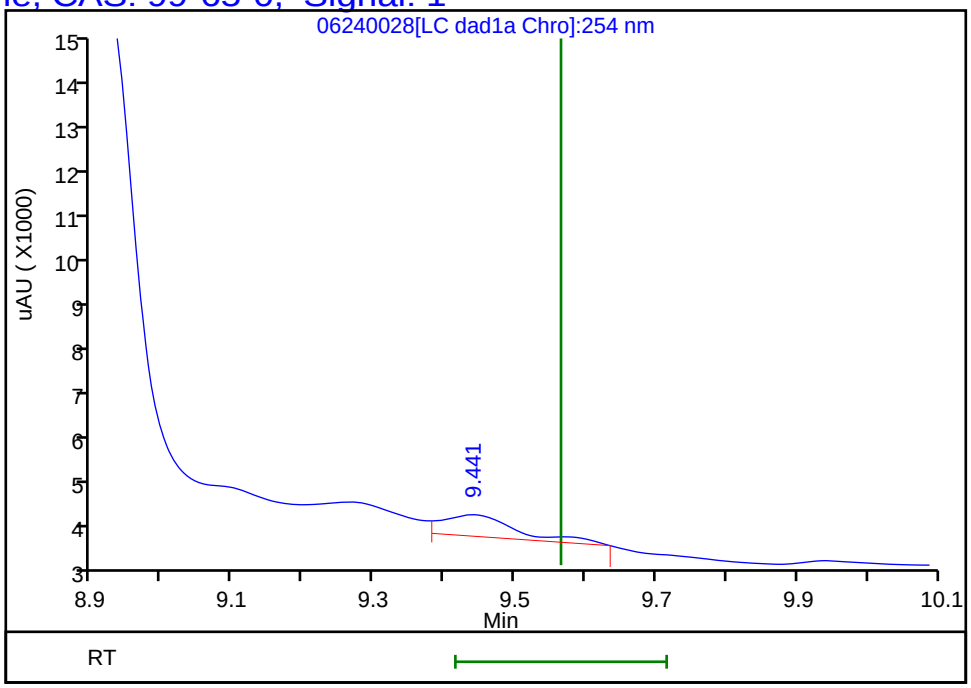
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240028.d				
Injection Date:	25-Jun-2020 00:19:16	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-14-A	Lab Sample ID:	280-137736-14		
Client ID:	G0077-20A				
Operator ID:	JZ	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

11 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.44
Response: 3177
Amount: 0.010359



Reviewer: zhangji, 25-Jun-2020 16:08:36
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

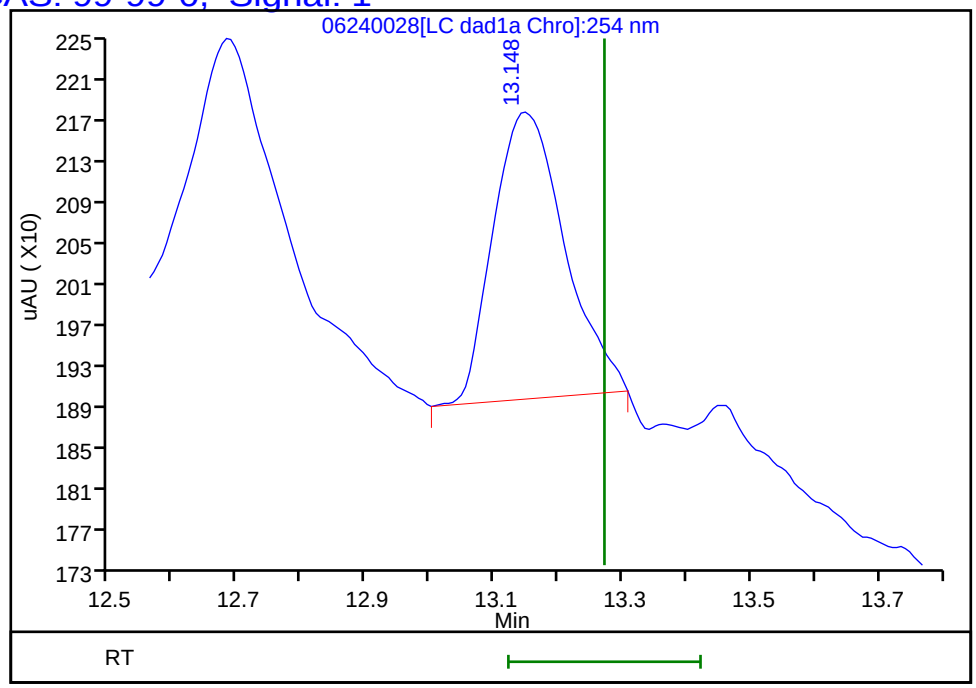
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240028.d				
Injection Date:	25-Jun-2020 00:19:16	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-14-A	Lab Sample ID:	280-137736-14		
Client ID:	G0077-20A				
Operator ID:	JZ	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

22 p-Nitrotoluene, CAS: 99-99-0, Signal: 1

RT: 13.15
Response: 2145
Amount: 0.018981



Reviewer: zhangji, 25-Jun-2020 16:08:36
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

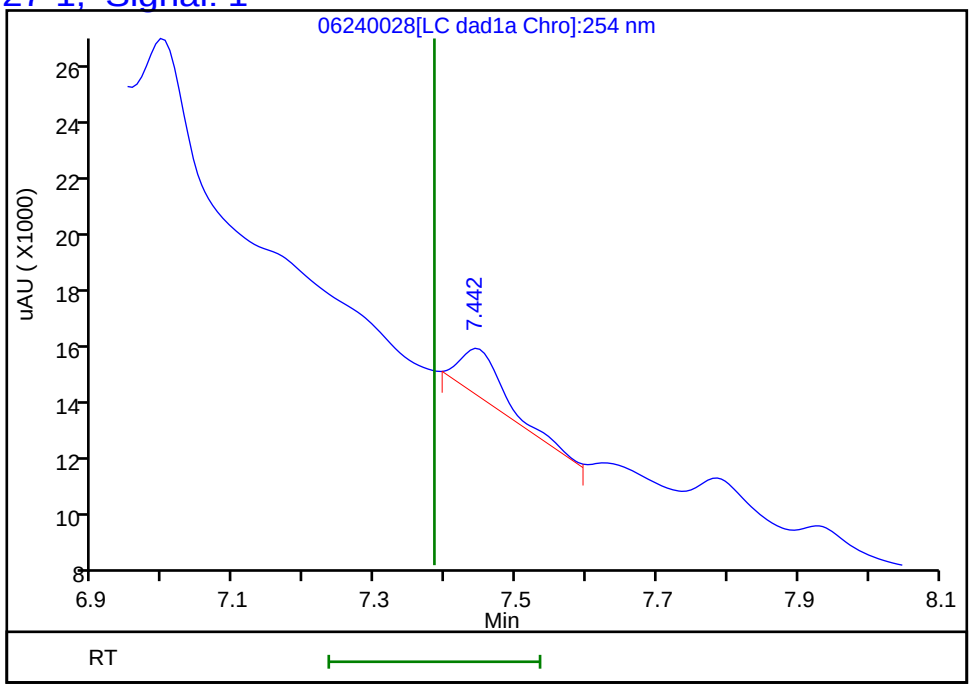
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240028.d				
Injection Date:	25-Jun-2020 00:19:16	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-14-A	Lab Sample ID:	280-137736-14		
Client ID:	G0077-20A				
Operator ID:	JZ	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.44
Response: 6580
Amount: 0.041503



Reviewer: zhangji, 25-Jun-2020 16:08:36
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

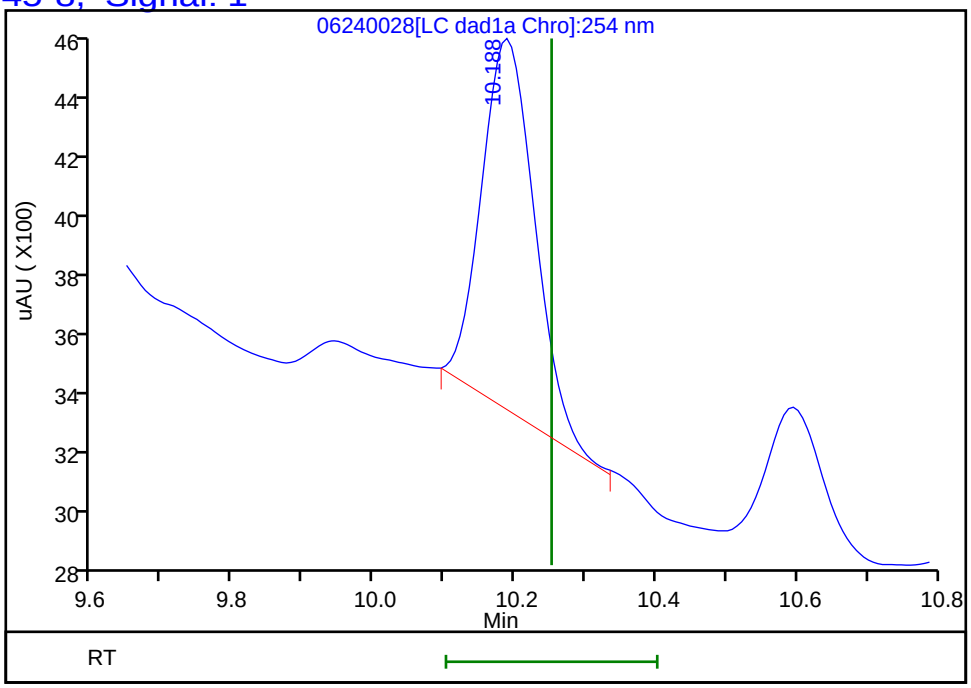
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240028.d				
Injection Date:	25-Jun-2020 00:19:16	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-14-A	Lab Sample ID:	280-137736-14		
Client ID:	G0077-20A				
Operator ID:	JZ	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.19
Response: 6540
Amount: 0.036942



Reviewer: zhangji, 25-Jun-2020 16:08:36
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0077-20A Lab Sample ID: 280-137736-14

Matrix: Water Lab File ID: 06260024.D

Analysis Method: 8330A Date Collected: 06/15/2020 13:20

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 474.2(mL) Date Analyzed: 06/27/2020 04:29

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

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

Analysis Batch No.: 500326 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	79	Q	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260024.D
Lims ID: 280-137736-A-14-A
Client ID: G0077-20A
Sample Type: Client
Inject. Date: 27-Jun-2020 04:29:23 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-14-
Misc. Info.: 280-0092796-024
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 15:28:01 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 27-Jun-2020 12:00:30

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
	6 HMX	1	7.130	7.154	-0.024	7385	0.0116	M
	7 MNX	1		7.919			ND	
	8 RDX	1	9.330	9.367	-0.037	7387	0.0302	M
	9 Nitrobenzene	1		12.274			ND	
$	10 1,2-Dinitrobenzene	1	13.244	13.281	-0.037	45810	0.1586	
	12 1,3-Dinitrobenzene	1		15.814			ND	
	14 o-Nitrotoluene	1		16.754			ND	U
	15 p-Nitrotoluene	1		17.034			ND	
	16 4-Amino-2,6-dinitrotoluene	1	17.430	17.474	-0.044	35153	0.1018	M
	17 m-Nitrotoluene	1		17.967			ND	
	18 2-Amino-4,6-dinitrotoluene	1	18.364	18.407	-0.043	56284	0.1210	M
	19 1,3,5-Trinitrobenzene	1	19.104	19.147	-0.043	78744	0.1667	M
	20 2,6-Dinitrotoluene	1		20.074			ND	
	21 2,4-Dinitrotoluene	1		20.587			ND	
	22 Tetryl	1	23.910	23.887	0.023	44213	0.1199	
	23 2,4,6-Trinitrotoluene	1	24.870	24.907	-0.037	112553	0.2724	

QC Flag Legend

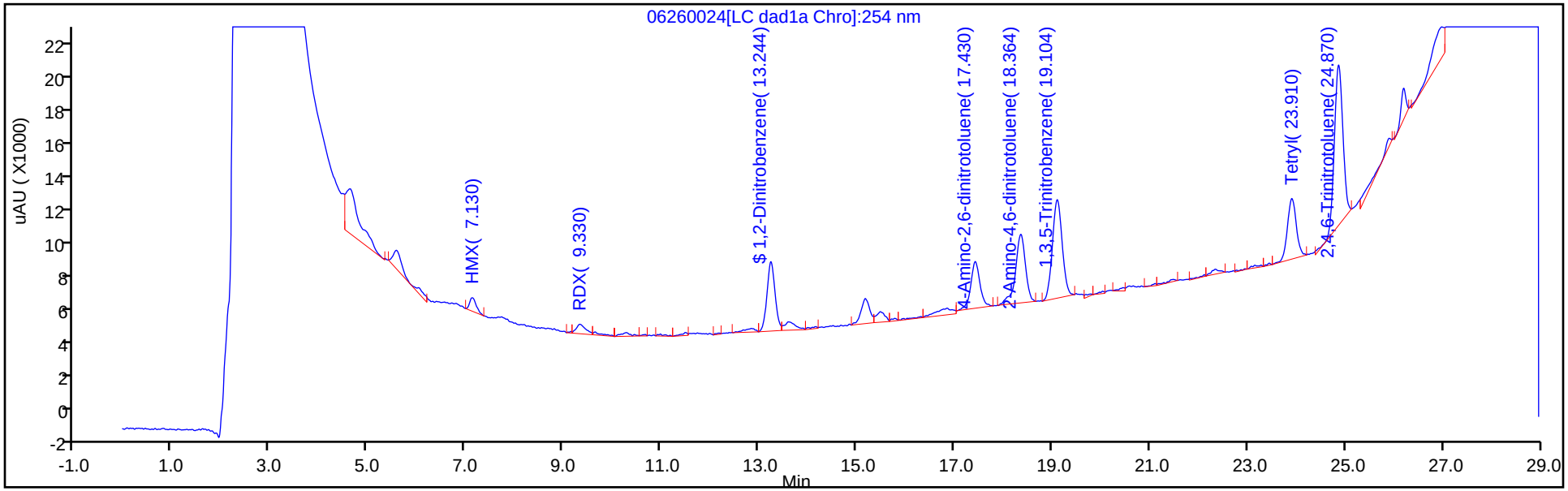
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 27-Jun-2020 15:28:04 Chrom Revision: 2.3 21-Jun-2020 18:30:46

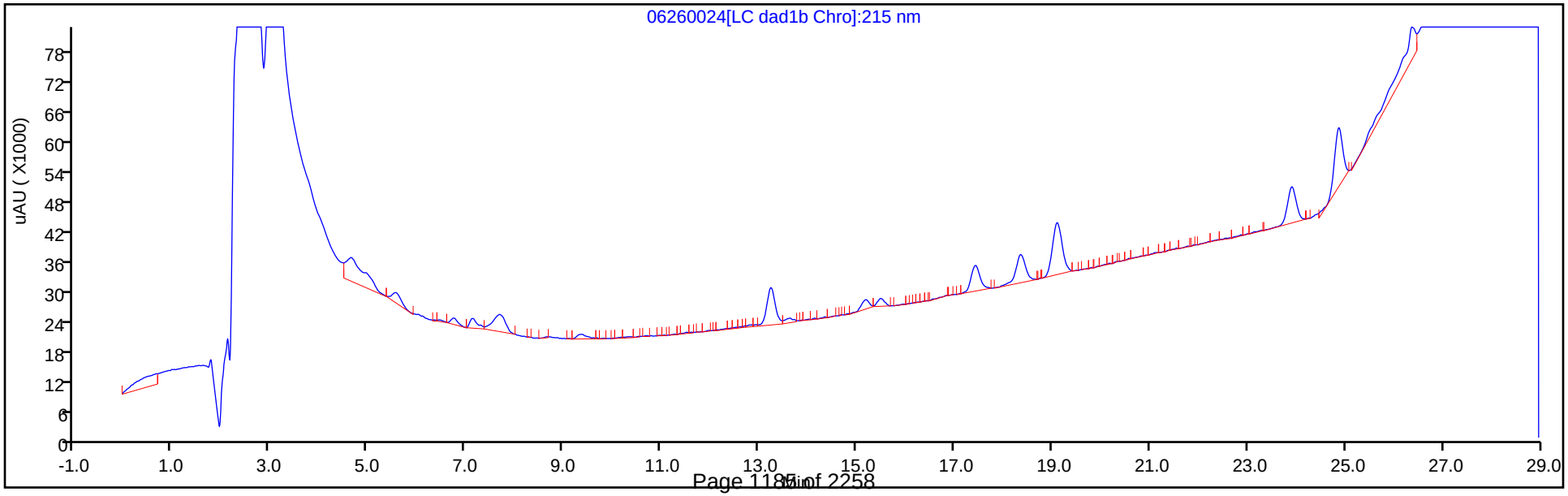
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260024.d				
Injection Date:	27-Jun-2020 04:29:23	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137736-A-14-A	Lab Sample ID:	280-137736-14	Worklist Smp#:	24
Client ID:	G0077-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260024.D				
Lims ID:	280-137736-A-14-A				
Client ID:	G0077-20A				
Sample Type:	Client				
Inject. Date:	27-Jun-2020 04:29:23	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-14-				
Misc. Info.:	280-0092796-024				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 15:28:01	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1036				
First Level Reviewer: zhangji		Date:	27-Jun-2020 12:00:30		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1586	79.30

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

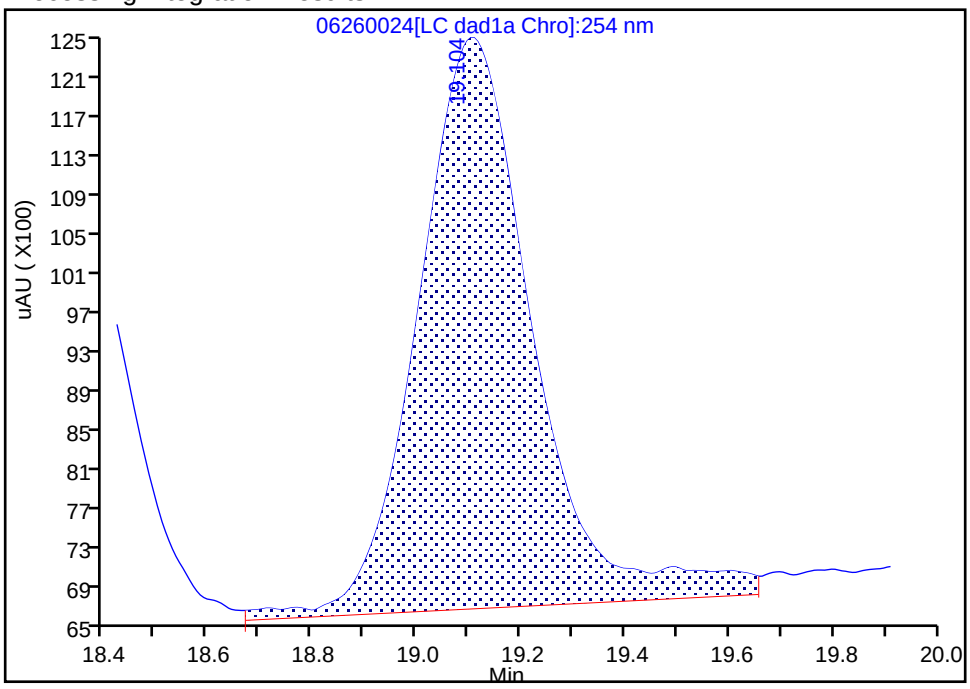
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260024.d				
Injection Date:	27-Jun-2020 04:29:23	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-14-A	Lab Sample ID:	280-137736-14		
Client ID:	G0077-20A				
Operator ID:	JZ	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

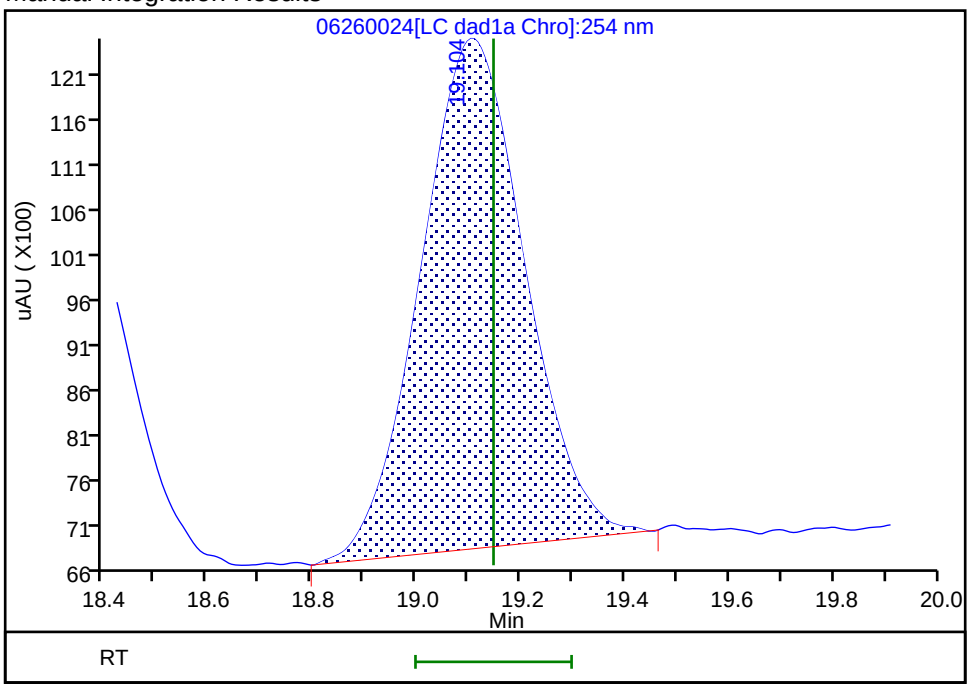
Processing Integration Results

RT: 19.10
Area: 89502
Amount: 0.189442
Amount Units: ug/ml



Manual Integration Results

RT: 19.10
Area: 78744
Amount: 0.166671
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:00:23

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

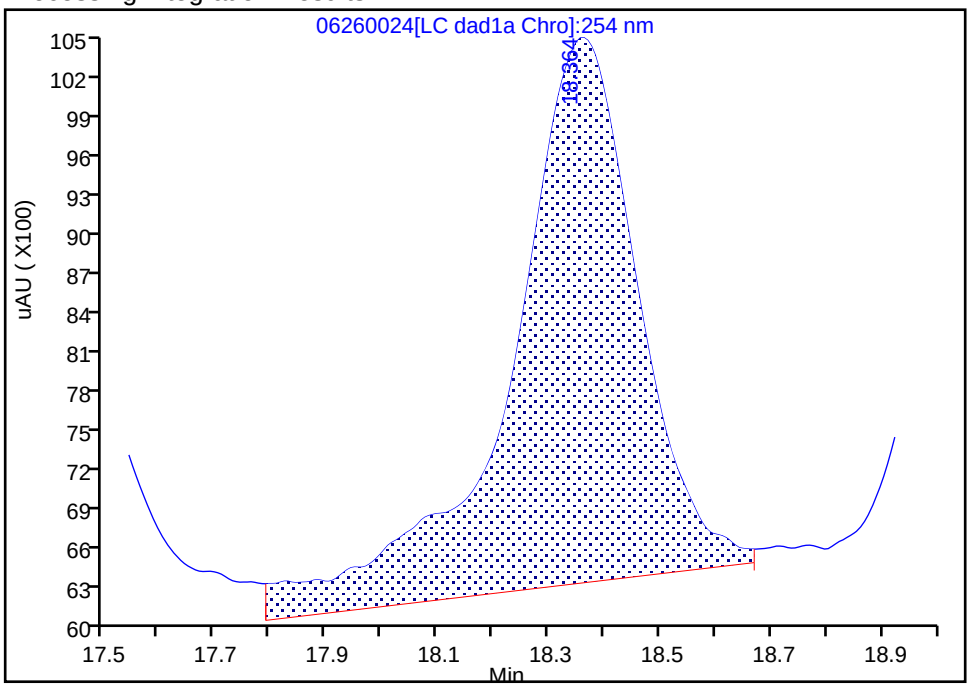
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260024.d				
Injection Date:	27-Jun-2020 04:29:23	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-14-A	Lab Sample ID:	280-137736-14		
Client ID:	G0077-20A				
Operator ID:	JZ	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

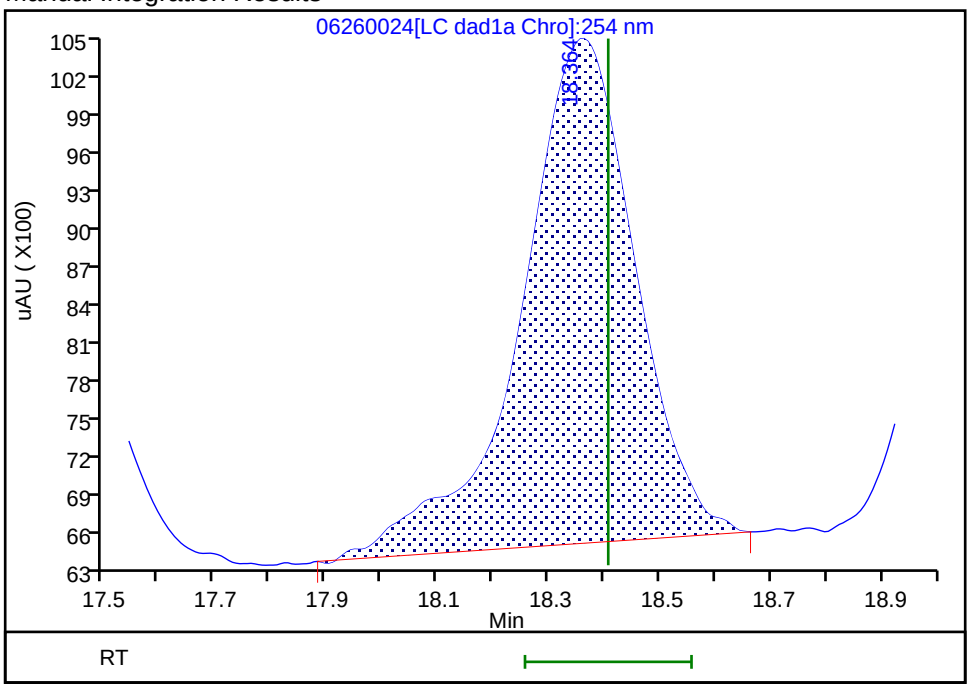
Processing Integration Results

RT: 18.36
Area: 66302
Amount: 0.142520
Amount Units: ug/ml



Manual Integration Results

RT: 18.36
Area: 56284
Amount: 0.120986
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:00:20

Audit Action: Manually Integrated Audit Reason: Baseline

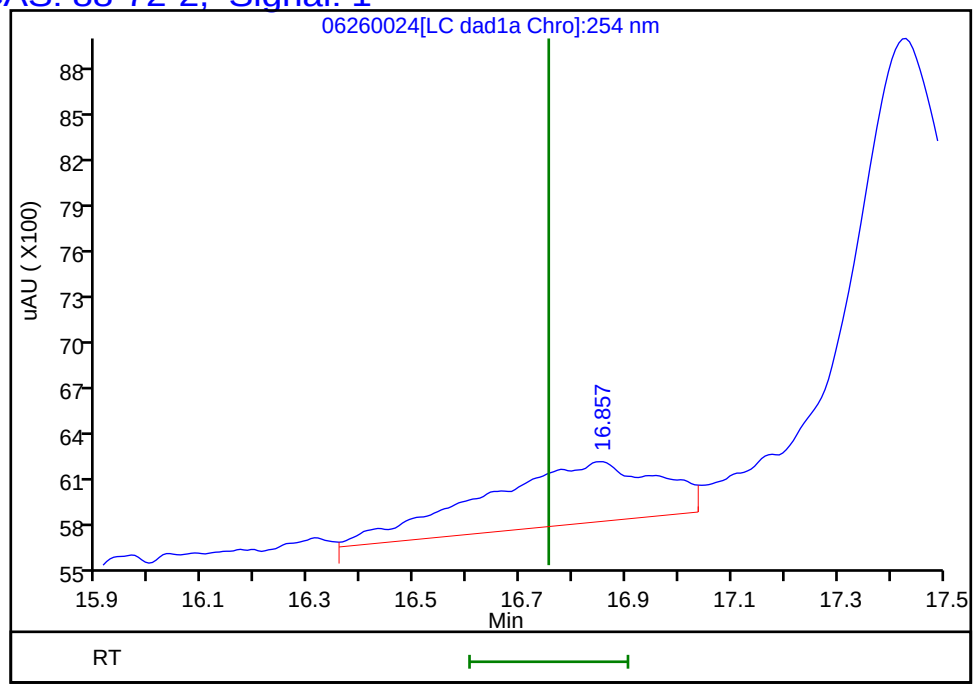
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260024.d				
Injection Date:	27-Jun-2020 04:29:23	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-14-A	Lab Sample ID:	280-137736-14		
Client ID:	G0077-20A				
Operator ID:	JZ	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.86
Response: 9117
Amount: 0.033400



Reviewer: zhangji, 27-Jun-2020 12:00:30
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

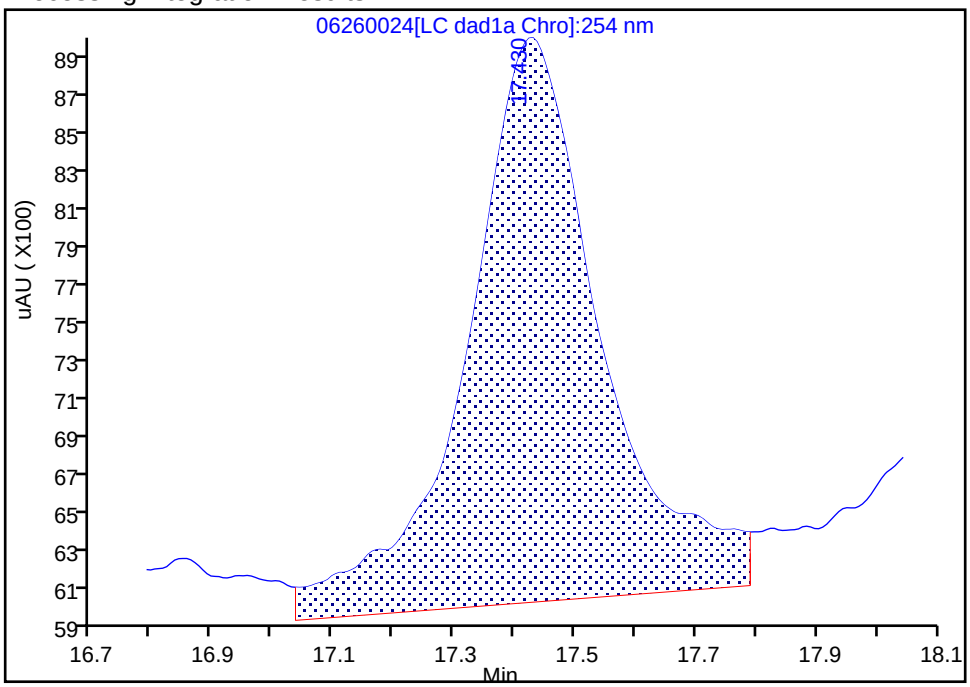
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260024.d				
Injection Date:	27-Jun-2020 04:29:23	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-14-A	Lab Sample ID:	280-137736-14		
Client ID:	G0077-20A				
Operator ID:	JZ	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

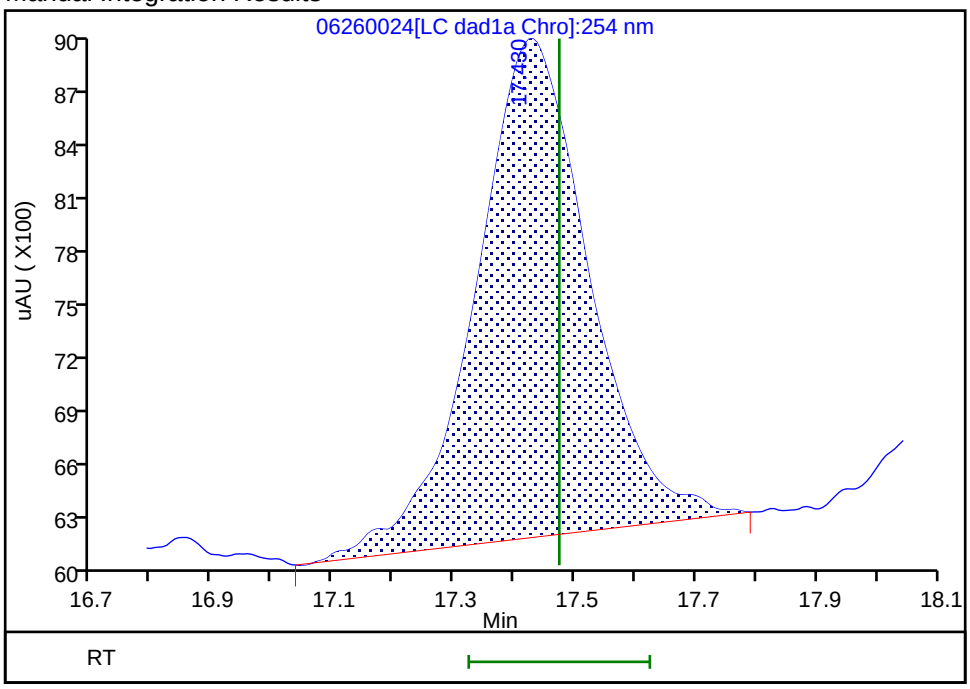
Processing Integration Results

RT: 17.43
Area: 45210
Amount: 0.130954
Amount Units: ug/ml



Manual Integration Results

RT: 17.43
Area: 35153
Amount: 0.101824
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:00:12

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

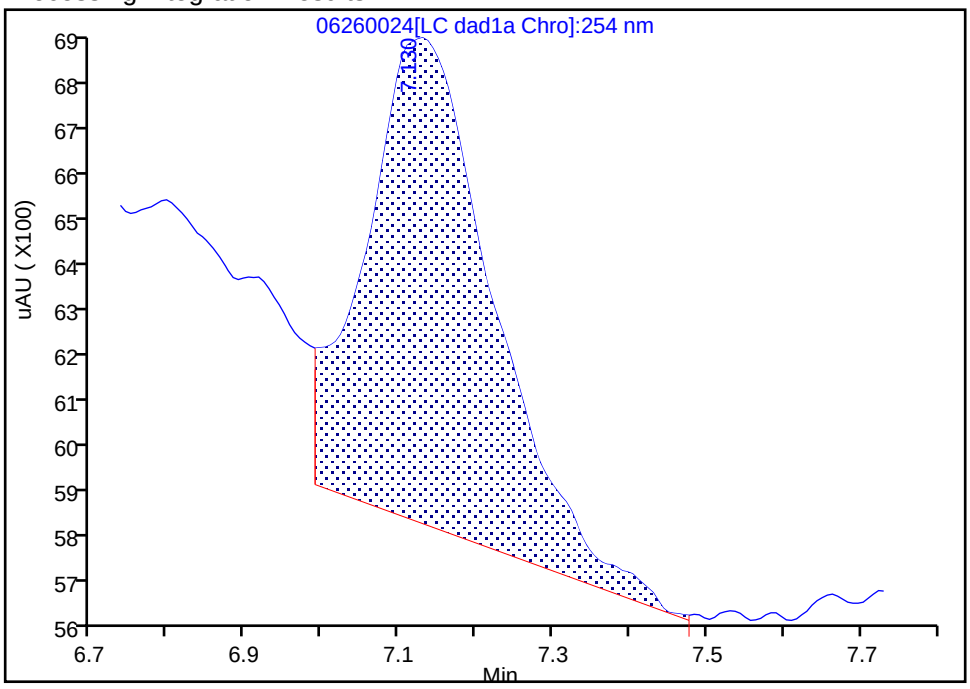
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260024.d				
Injection Date:	27-Jun-2020 04:29:23	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-14-A	Lab Sample ID:	280-137736-14		
Client ID:	G0077-20A				
Operator ID:	JZ	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

6 HMX, CAS: 2691-41-0

Signal: 1

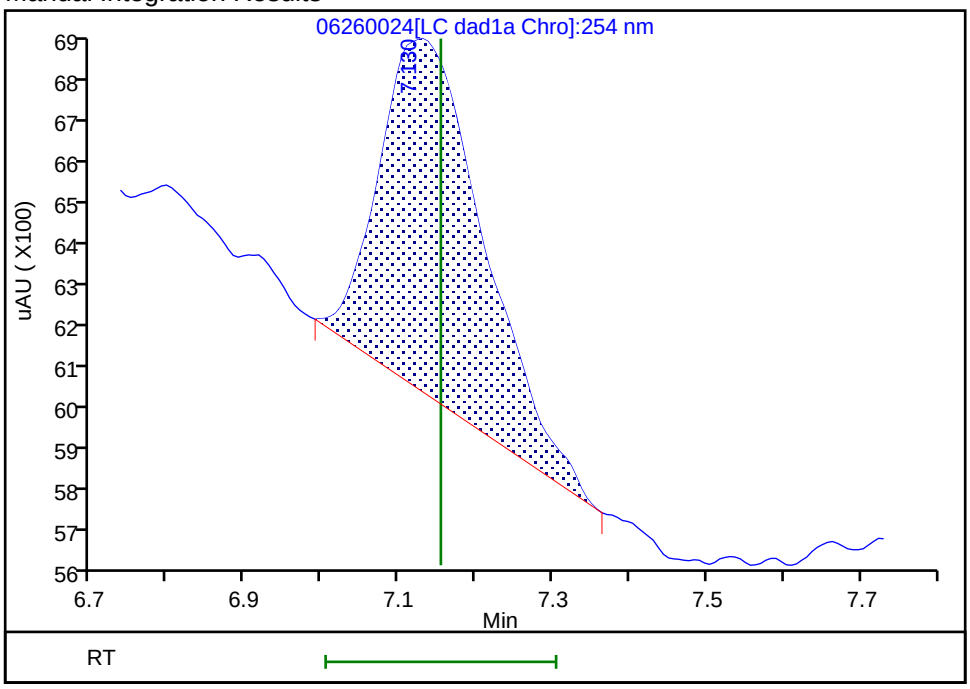
Processing Integration Results

RT: 7.13
Area: 11209
Amount: 0.033246
Amount Units: ug/ml



Manual Integration Results

RT: 7.13
Area: 7385
Amount: 0.011643
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:59:53

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

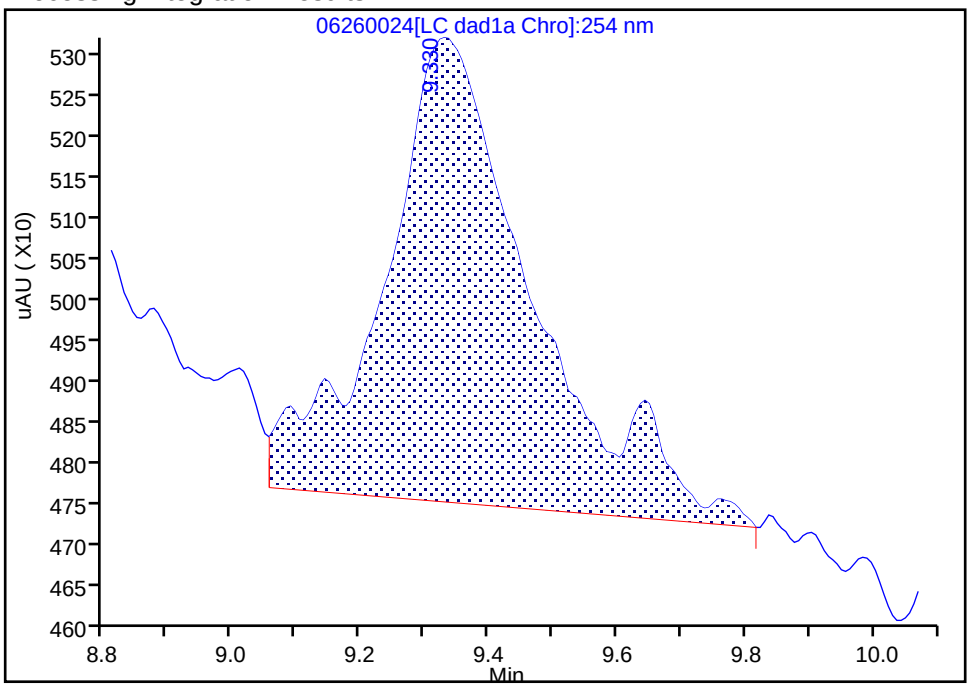
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260024.d				
Injection Date:	27-Jun-2020 04:29:23	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-14-A	Lab Sample ID:	280-137736-14		
Client ID:	G0077-20A				
Operator ID:	JZ	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

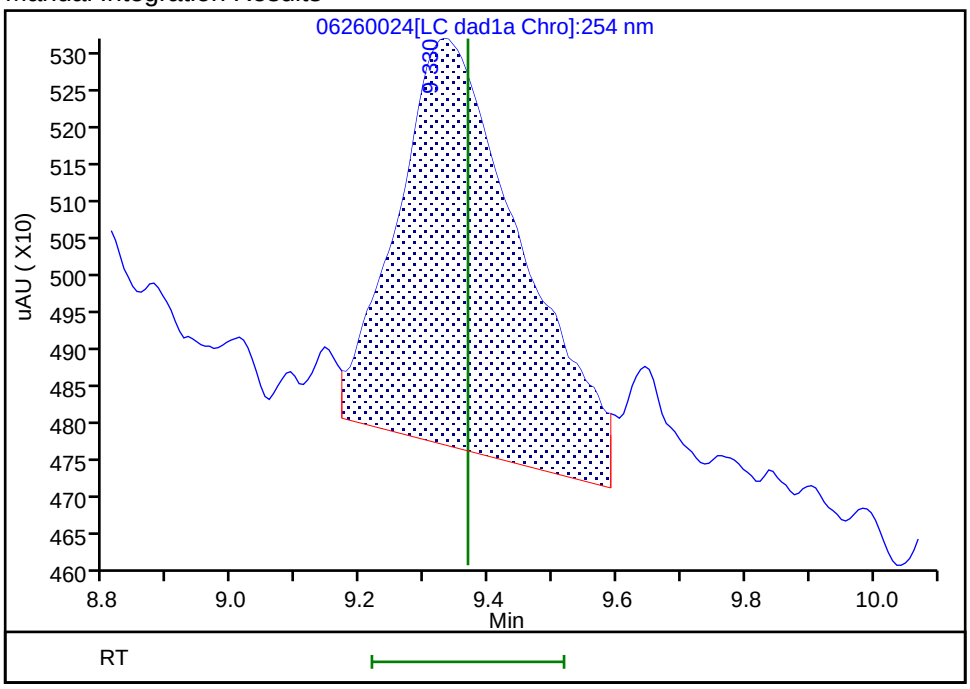
Processing Integration Results

RT: 9.33
Area: 9118
Amount: 0.037314
Amount Units: ug/ml



Manual Integration Results

RT: 9.33
Area: 7387
Amount: 0.030230
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:00:01

Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0078-20A Lab Sample ID: 280-137736-15

Matrix: Water Lab File ID: 06240029.D

Analysis Method: 8330A Date Collected: 06/15/2020 14:30

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 474.2(mL) Date Analyzed: 06/25/2020 00:42

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499988 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.21	U Q	0.22	0.21	0.089
99-65-0	1,3-Dinitrobenzene	0.11	U Q	0.12	0.11	0.039
118-96-7	2,4,6-Trinitrotoluene	0.11	U Q	0.12	0.11	0.047
121-14-2	2,4-Dinitrotoluene	0.084	U Q	0.11	0.084	0.029
606-20-2	2,6-Dinitrotoluene	0.084	U Q	0.11	0.084	0.042
35572-78-2	2-Amino-4,6-dinitrotoluene	0.11	U Q	0.12	0.11	0.053
88-72-2	2-Nitrotoluene	0.21	U Q	0.22	0.21	0.090
99-08-1	3-Nitrotoluene	0.42	U M Q	0.42	0.42	0.21
19406-51-0	4-Amino-2,6-dinitrotoluene	0.13	U Q	0.16	0.13	0.061
99-99-0	4-Nitrotoluene	0.42	U Q	0.43	0.42	0.11
2691-41-0	HMX	0.21	U M Q	0.22	0.21	0.092
5755-27-1	MNX	0.42	U	2.1	0.42	0.16
98-95-3	Nitrobenzene	0.21	U Q	0.22	0.21	0.096
121-82-4	RDX	0.21	U Q	0.22	0.21	0.054
479-45-8	Tetryl	0.11	U Q	0.12	0.11	0.034

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	81	M Q	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240029.D
Lims ID: 280-137736-A-15-A
Client ID: G0078-20A
Sample Type: Client
Inject. Date: 25-Jun-2020 00:42:14 ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-15-
Misc. Info.: 280-0092716-029
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:16 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:08:51

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 HMX	1		6.712			ND	U
	6 MNX	1		7.384			ND	
	7 RDX	1		7.785			ND	
$	9 1,2-Dinitrobenzene	1	8.736	8.738	-0.002	22339	0.1616	M
	10 1,3,5-Trinitrobenzene	1		8.918			ND	
	11 1,3-Dinitrobenzene	1		9.565			ND	
	12 Nitrobenzene	1		9.945			ND	
	14 Tetryl	1		10.252			ND	
	16 2,4,6-Trinitrotoluene	1		11.225			ND	
	17 4-Amino-2,6-dinitrotoluene	1		11.385			ND	
	18 2-Amino-4,6-dinitrotoluene	1		11.678			ND	
	19 2,6-Dinitrotoluene	1		11.818			ND	
	20 2,4-Dinitrotoluene	1		12.018			ND	
	21 o-Nitrotoluene	1		12.845			ND	
	22 p-Nitrotoluene	1		13.272			ND	
	23 m-Nitrotoluene	1		13.865			ND	U

QC Flag Legend

Review Flags
M - Manually Integrated
U - Marked Undetected

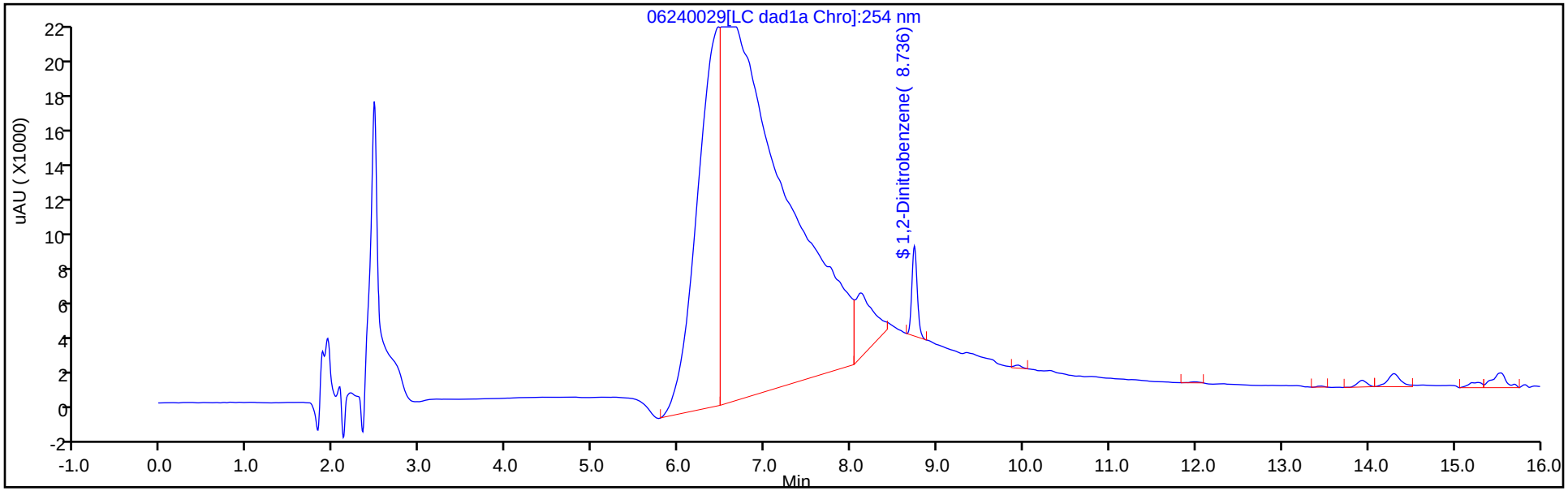
Report Date: 25-Jun-2020 21:10:21 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

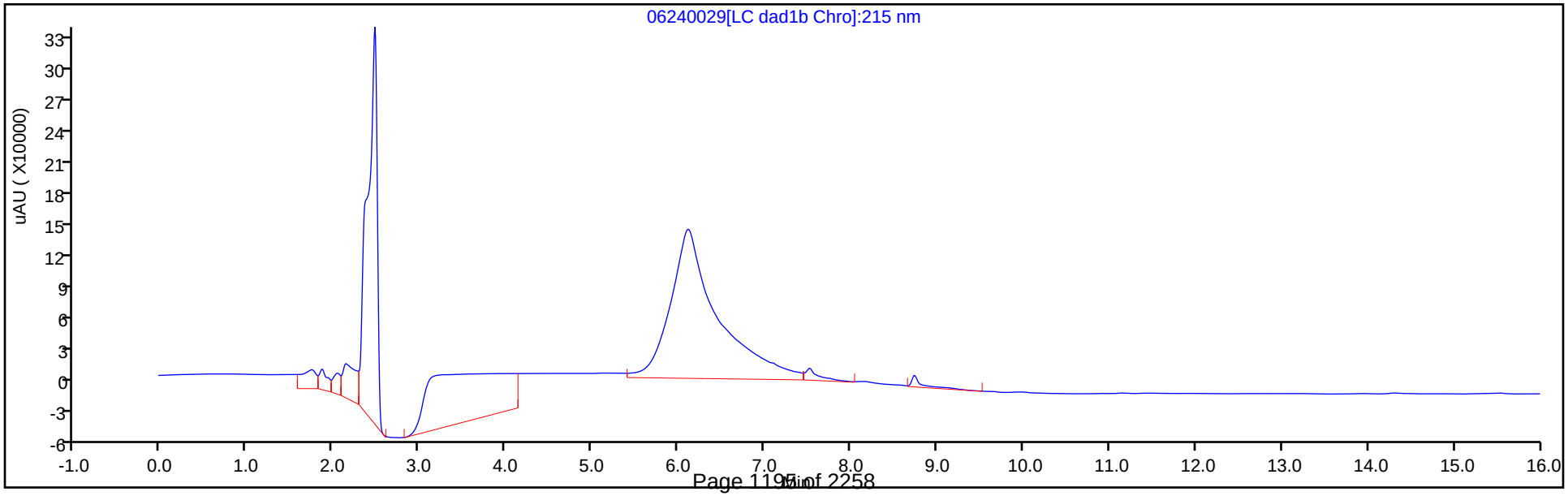
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240029.d

Injection Date:	25-Jun-2020 00:42:14	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-A-15-A	Lab Sample ID:	280-137736-15	Worklist Smp#:	29
Client ID:	G0078-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240029.D				
Lims ID:	280-137736-A-15-A				
Client ID:	G0078-20A				
Sample Type:	Client				
Inject. Date:	25-Jun-2020 00:42:14	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-15-				
Misc. Info.:	280-0092716-029				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	25-Jun-2020 21:10:16	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1063				

First Level Reviewer: zhangji Date: 25-Jun-2020 16:08:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1616	80.81

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

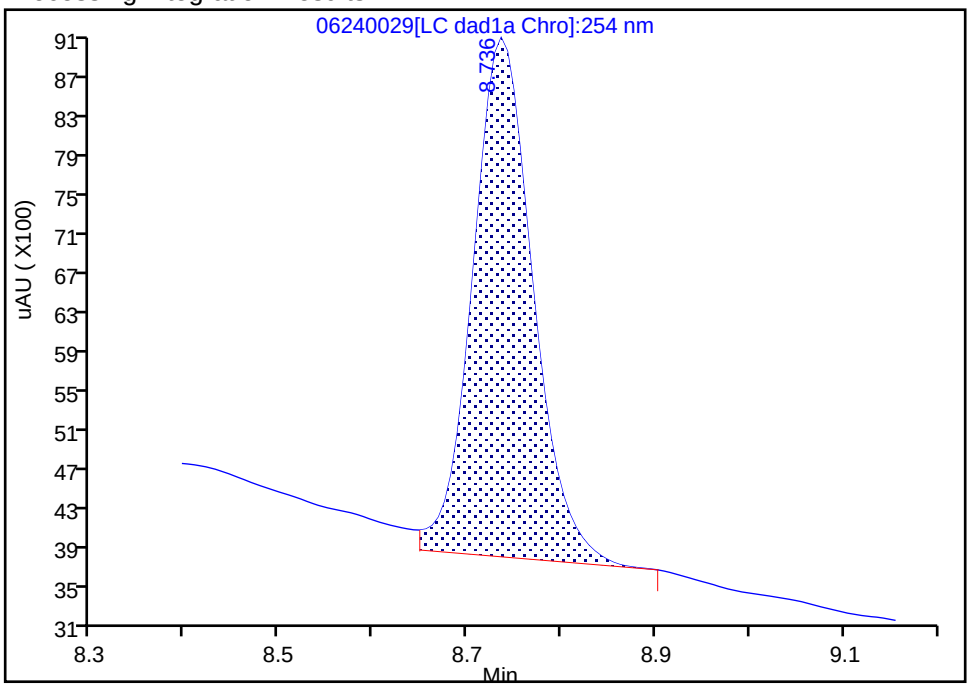
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240029.d				
Injection Date:	25-Jun-2020 00:42:14	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-15-A	Lab Sample ID:	280-137736-15		
Client ID:	G0078-20A				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

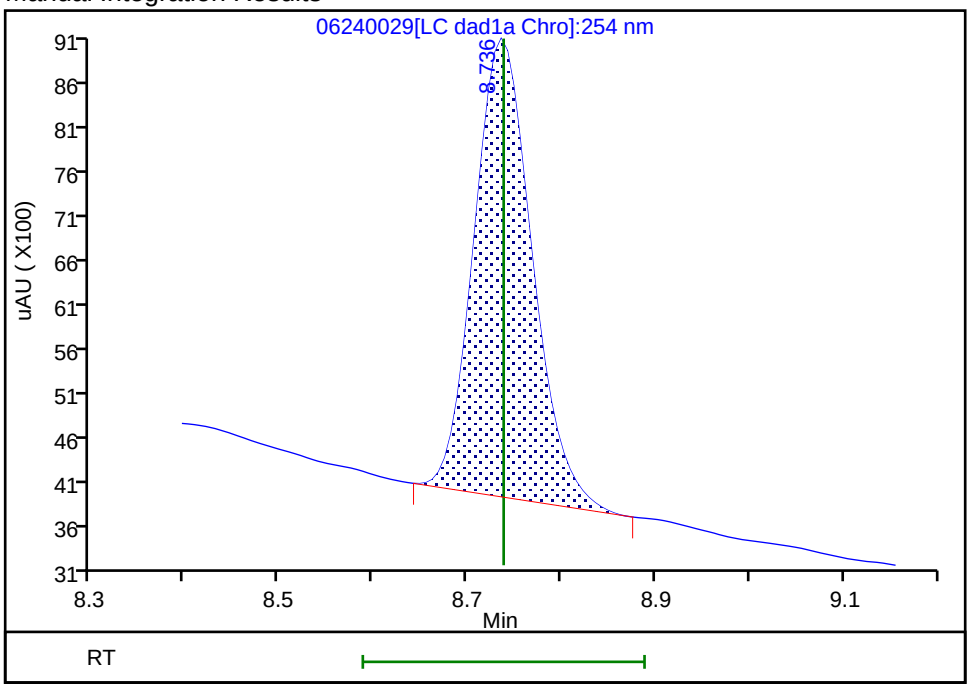
Processing Integration Results

RT: 8.74
Area: 23729
Amount: 0.171685
Amount Units: ug/mL



Manual Integration Results

RT: 8.74
Area: 22339
Amount: 0.161628
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:08:49

Audit Action: Manually Integrated Audit Reason: Baseline

User Disabled Compound Report

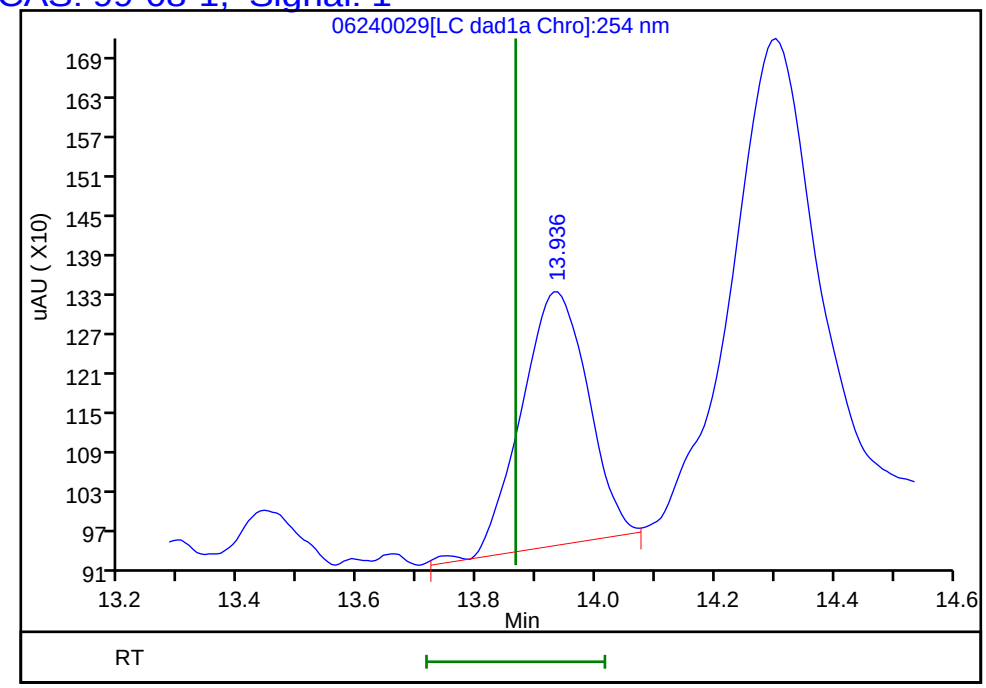
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240029.d

Injection Date:	25-Jun-2020 00:42:14	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-15-A	Lab Sample ID:	280-137736-15		
Client ID:	G0078-20A				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

23 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 13.94
Response: 3008
Amount: 0.021031



Reviewer: zhangji, 25-Jun-2020 16:08:51
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

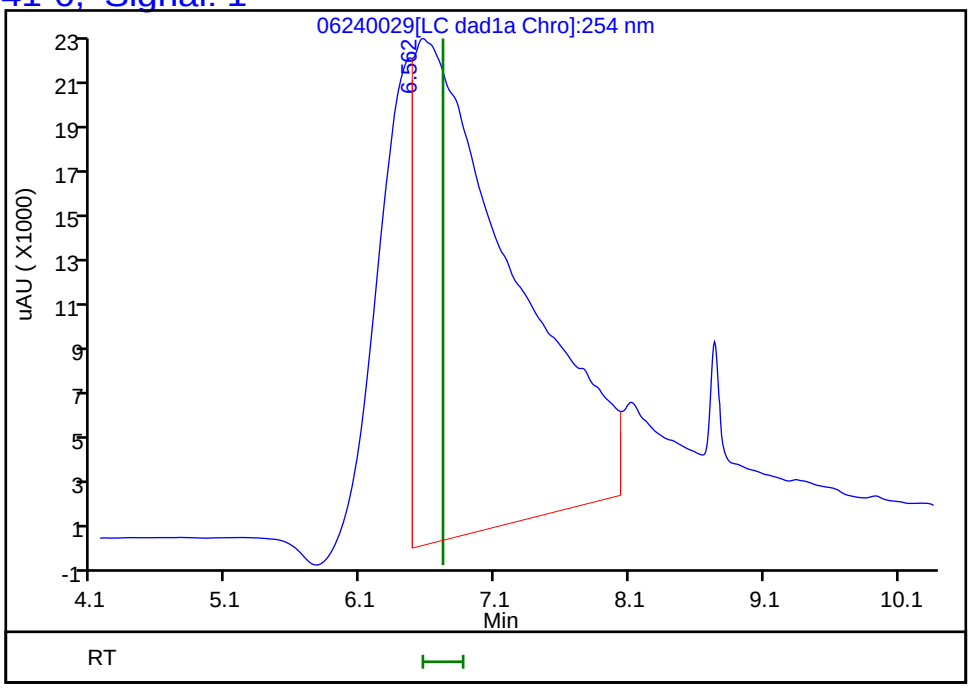
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240029.d

Injection Date:	25-Jun-2020 00:42:14	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-15-A	Lab Sample ID:	280-137736-15		
Client ID:	G0078-20A				
Operator ID:	JZ	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0, Signal: 1

RT: 6.56
Response: 1134512
Amount: 13.197806



Reviewer: zhangji, 25-Jun-2020 16:08:51
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0093-20A Lab Sample ID: 280-137736-16

Matrix: Water Lab File ID: 06260013.D

Analysis Method: 8330A Date Collected: 06/16/2020 08:25

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 466.1(mL) Date Analyzed: 06/26/2020 19:30

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 500316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.45	Q M	0.23	0.21	0.090
99-65-0	1,3-Dinitrobenzene	0.11	U Q	0.12	0.11	0.040
118-96-7	2,4,6-Trinitrotoluene	0.11	U Q M	0.12	0.11	0.048
606-20-2	2,6-Dinitrotoluene	0.086	U Q	0.11	0.086	0.043
35572-78-2	2-Amino-4,6-dinitrotoluene	1.8	Q J1	0.12	0.11	0.054
88-72-2	2-Nitrotoluene	0.21	U Q	0.23	0.21	0.092
99-08-1	3-Nitrotoluene	0.43	U Q	0.43	0.43	0.21
19406-51-0	4-Amino-2,6-dinitrotoluene	0.13	U Q	0.16	0.13	0.062
99-99-0	4-Nitrotoluene	0.43	U Q M	0.44	0.43	0.11
2691-41-0	HMX	0.21	U Q	0.23	0.21	0.094
479-45-8	Tetryl	0.11	U Q M	0.12	0.11	0.034

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	69	Q M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\06260013.D
Lims ID: 280-137736-A-16-A
Client ID: G0093-20A
Sample Type: Client
Inject. Date: 26-Jun-2020 19:30:25 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-16-
Misc. Info.: 280-0092794-013
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 13:26:12 Calib Date: 26-Jun-2020 01:16:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 26-Jun-2020 19:56:00

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
	3 HMX	1		6.710			ND	
	6 MNX	1	7.376	7.384	-0.008	4614	0.0291	M
	7 RDX	1	7.769	7.790	-0.021	5234	0.0449	M
$	9 1,2-Dinitrobenzene	1	8.763	8.756	0.007	18942	0.1371	M
	10 1,3,5-Trinitrobenzene	1	8.936	8.930	0.006	9724	0.0422	M
	11 1,3-Dinitrobenzene	1		9.583			ND	
	12 Nitrobenzene	1	9.963	9.963	0.000	2563	0.0128	M
	14 Tetryl	1		10.283			ND	MU
	16 2,4,6-Trinitrotoluene	1		11.250			ND	U
	17 4-Amino-2,6-dinitrotoluene	1		11.423			ND	
	18 2-Amino-4,6-dinitrotoluene	1	11.703	11.716	-0.013	33296	0.1642	
	19 2,6-Dinitrotoluene	1		11.850			ND	
	20 2,4-Dinitrotoluene	1	12.076	12.050	0.026	1756	0.005784	
	21 o-Nitrotoluene	1		12.870			ND	
	22 p-Nitrotoluene	1		13.310			ND	U
	23 m-Nitrotoluene	1		13.896			ND	

QC Flag Legend

Review Flags
M - Manually Integrated
U - Marked Undetected

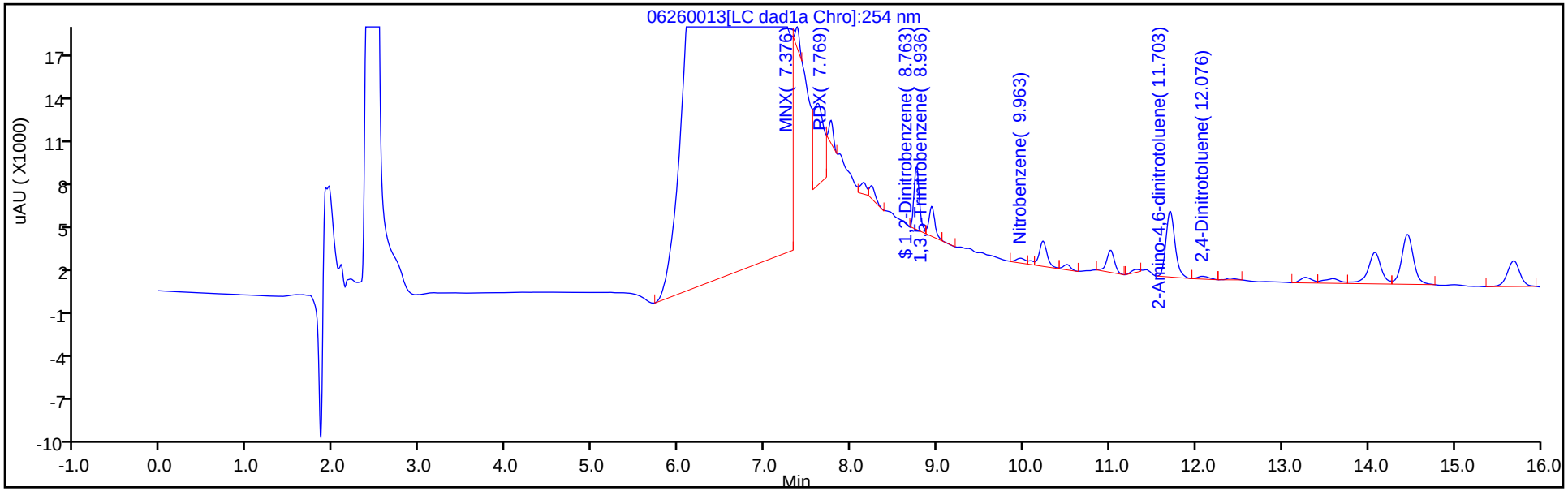
Report Date: 27-Jun-2020 13:26:14 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

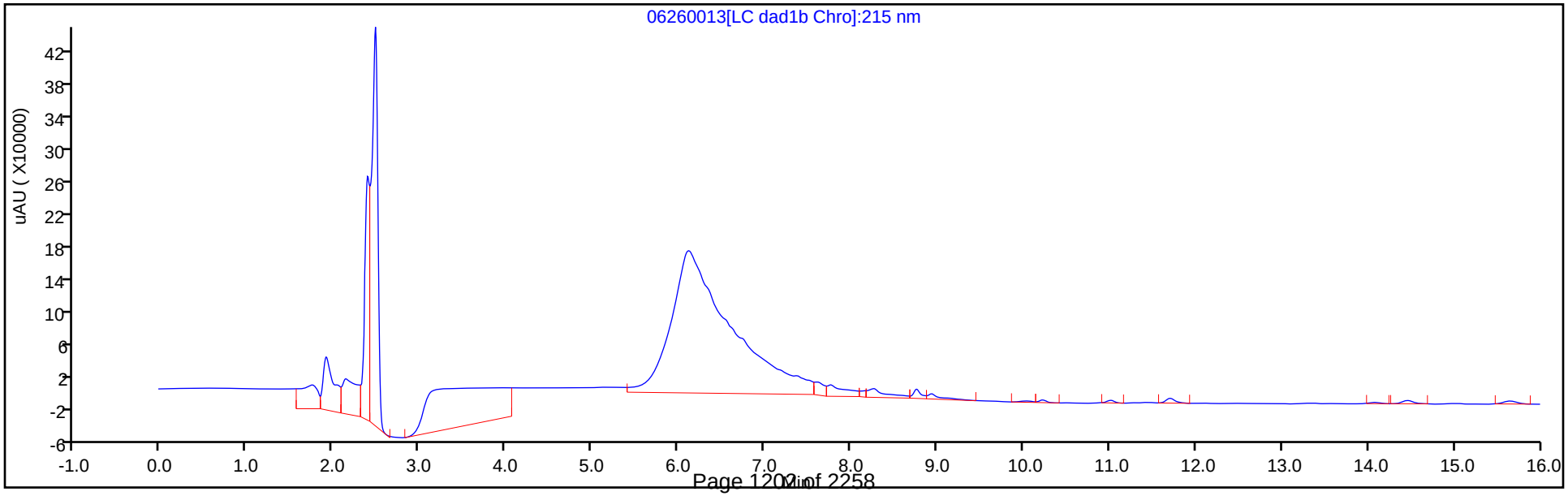
Data File: \\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260013.d

Injection Date:	26-Jun-2020 19:30:25	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-A-16-A	Lab Sample ID:	280-137736-16	Worklist Smp#:	13
Client ID:	G0093-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\06260013.D				
Lims ID:	280-137736-A-16-A				
Client ID:	G0093-20A				
Sample Type:	Client				
Inject. Date:	26-Jun-2020 19:30:25	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-16-				
Misc. Info.:	280-0092794-013				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 13:26:12	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1036				

First Level Reviewer: zhangji Date: 26-Jun-2020 19:56:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1371	68.53

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

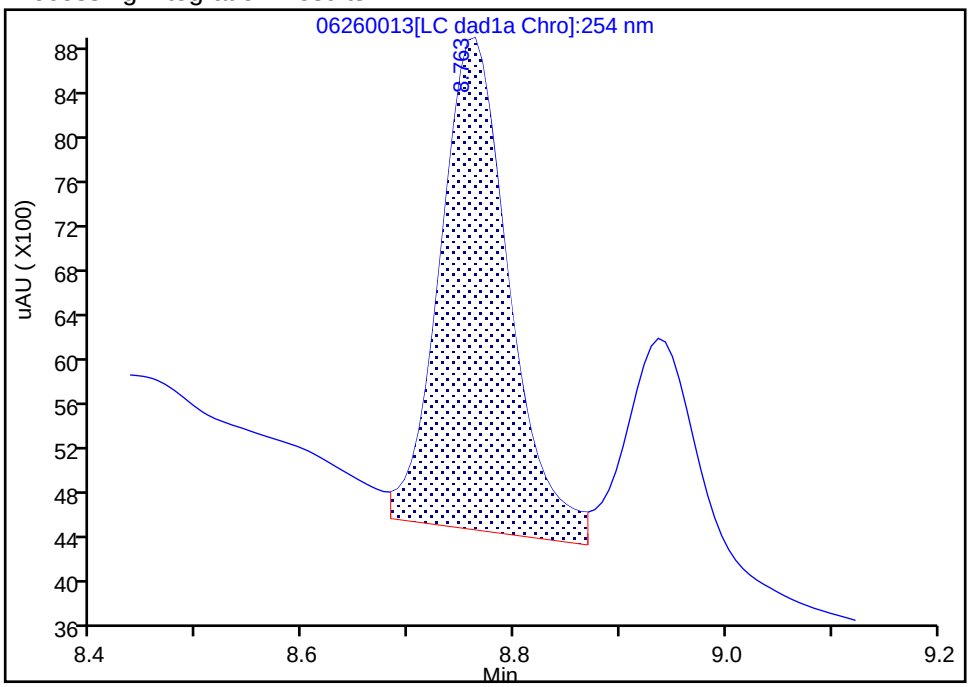
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260013.d				
Injection Date:	26-Jun-2020 19:30:25	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-16-A	Lab Sample ID:	280-137736-16		
Client ID:	G0093-20A				
Operator ID:	JZ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

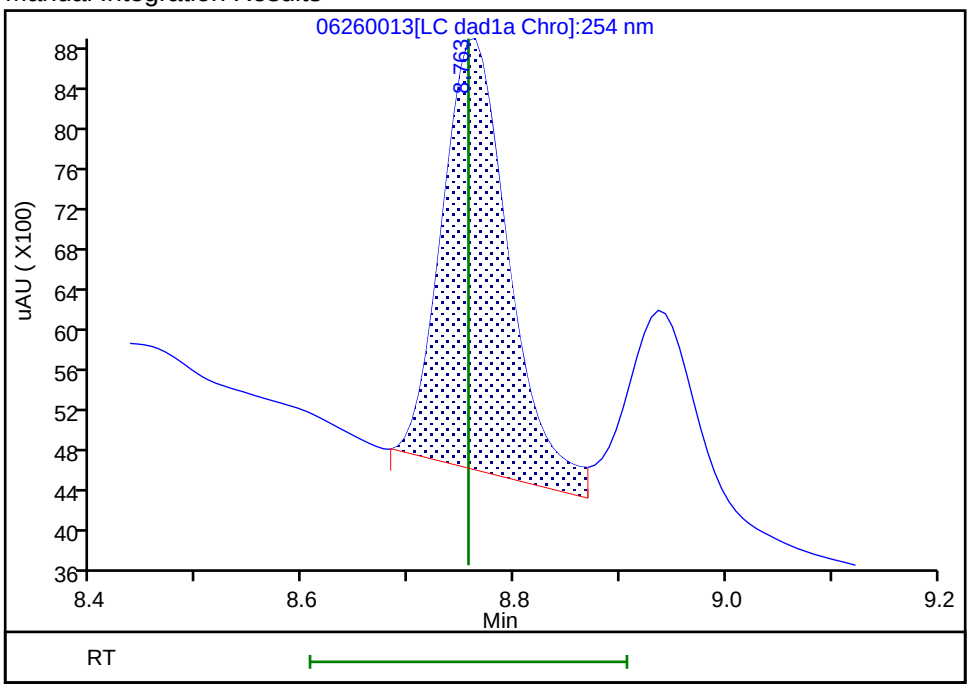
Processing Integration Results

RT: 8.76
Area: 20258
Amount: 0.146572
Amount Units: ug/mL



Manual Integration Results

RT: 8.76
Area: 18942
Amount: 0.137050
Amount Units: ug/mL



Reviewer: zhangji, 26-Jun-2020 19:55:24

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

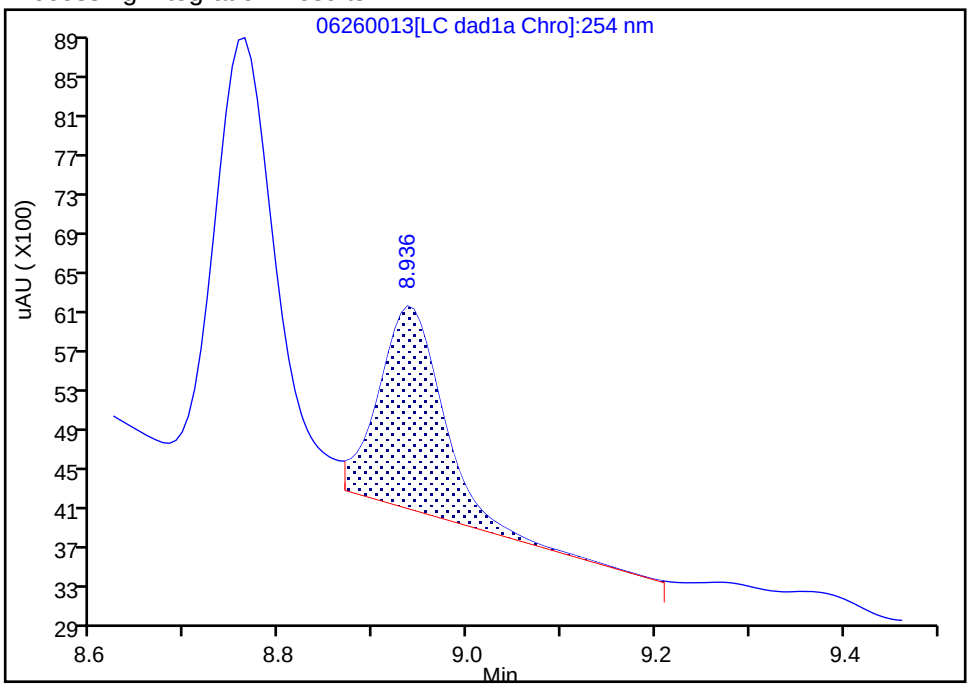
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260013.d				
Injection Date:	26-Jun-2020 19:30:25	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-16-A	Lab Sample ID:	280-137736-16		
Client ID:	G0093-20A				
Operator ID:	JZ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

10 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

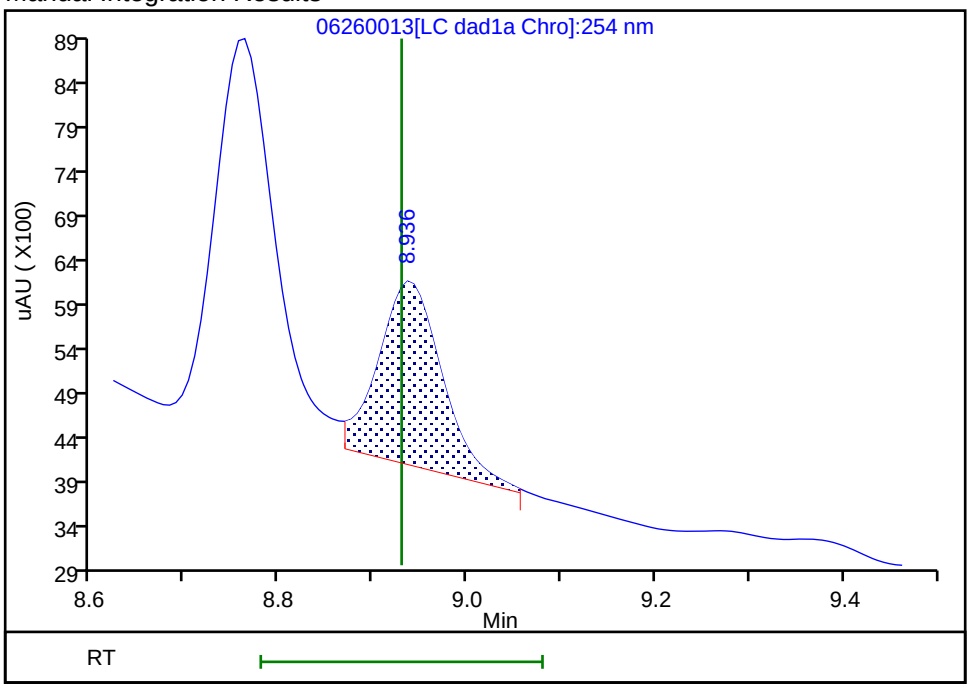
Processing Integration Results

RT: 8.94
Area: 9841
Amount: 0.042730
Amount Units: ug/mL



Manual Integration Results

RT: 8.94
Area: 9724
Amount: 0.042222
Amount Units: ug/mL



Reviewer: zhangji, 26-Jun-2020 19:55:26

Audit Action: Split an Integrated Peak Audit Reason: Baseline

User Disabled Compound Report

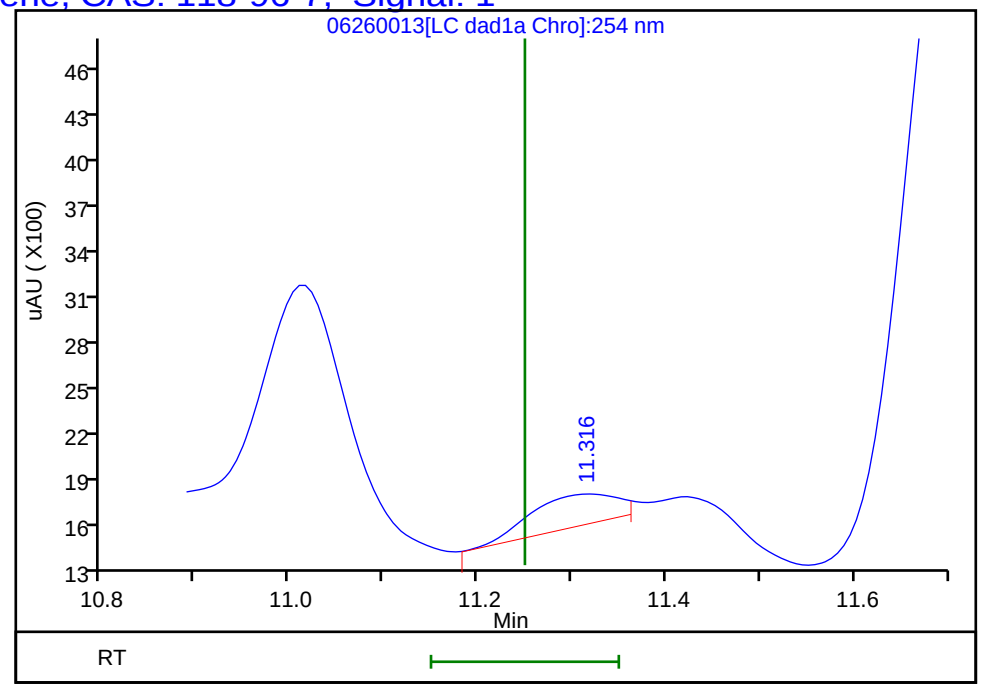
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260013.d
Injection Date: 26-Jun-2020 19:30:25 Instrument ID: CHHPLC_X3
Lims ID: 280-137736-A-16-A Lab Sample ID: 280-137736-16
Client ID: G0093-20A
Operator ID: JZ ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

16 2,4,6-Trinitrotoluene, CAS: 118-96-7, Signal: 1

RT: 11.32
Response: 1302
Amount: 0.006381



Reviewer: zhangji, 26-Jun-2020 19:56:00
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

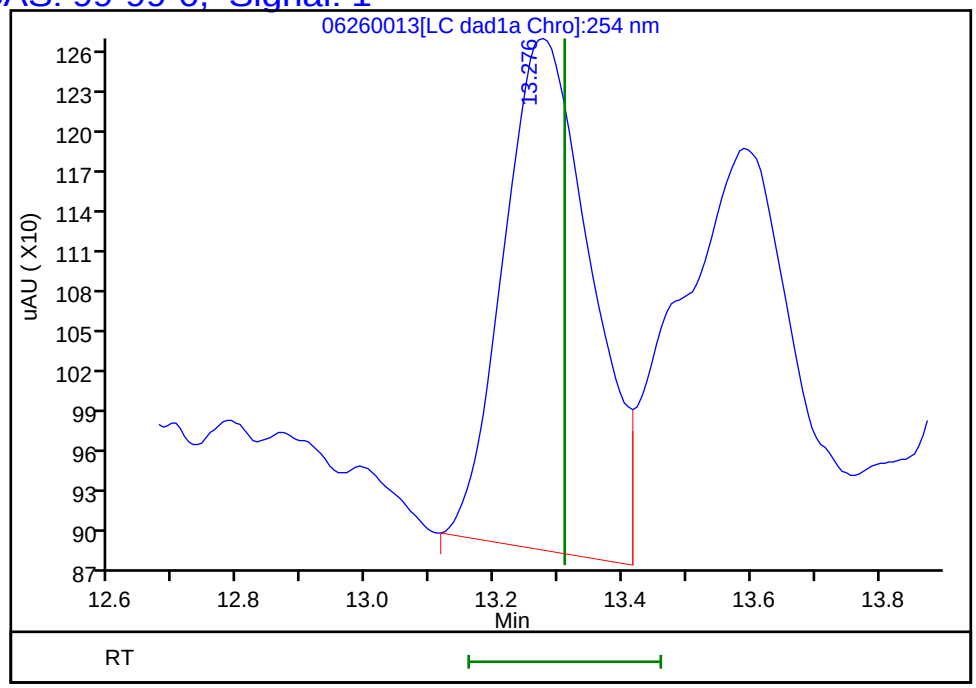
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260013.d

Injection Date:	26-Jun-2020 19:30:25	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-16-A	Lab Sample ID:	280-137736-16		
Client ID:	G0093-20A				
Operator ID:	JZ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

22 p-Nitrotoluene, CAS: 99-99-0, Signal: 1

RT: 13.28
Response: 3630
Amount: 0.032122



Reviewer: zhangji, 26-Jun-2020 19:56:00
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

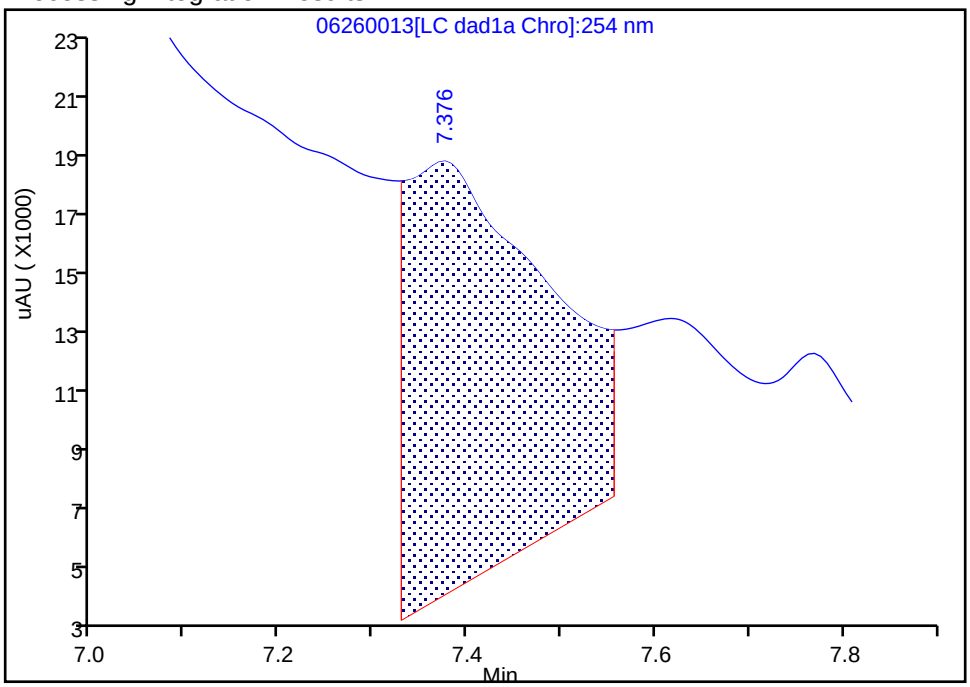
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260013.d		
Injection Date:	26-Jun-2020 19:30:25	Instrument ID:	CHHPLC_X3
Lims ID:	280-137736-A-16-A	Lab Sample ID:	280-137736-16
Client ID:	G0093-20A		
Operator ID:	JZ	ALS Bottle#:	13 Worklist Smp#: 13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000
Method:	8330_X3	Limit Group:	GCSV - 8330
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm

6 MNX, CAS: 5755-27-1

Signal: 1

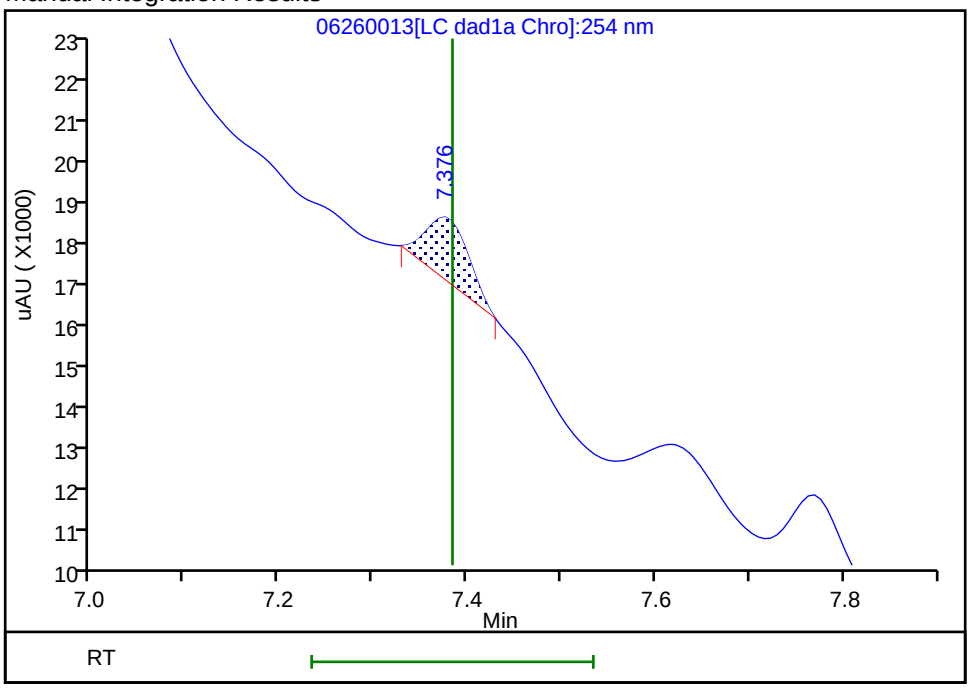
Processing Integration Results

RT: 7.38
Area: 144284
Amount: 0.910055
Amount Units: ug/mL



Manual Integration Results

RT: 7.38
Area: 4614
Amount: 0.029102
Amount Units: ug/mL



Reviewer: zhangji, 26-Jun-2020 19:55:10

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

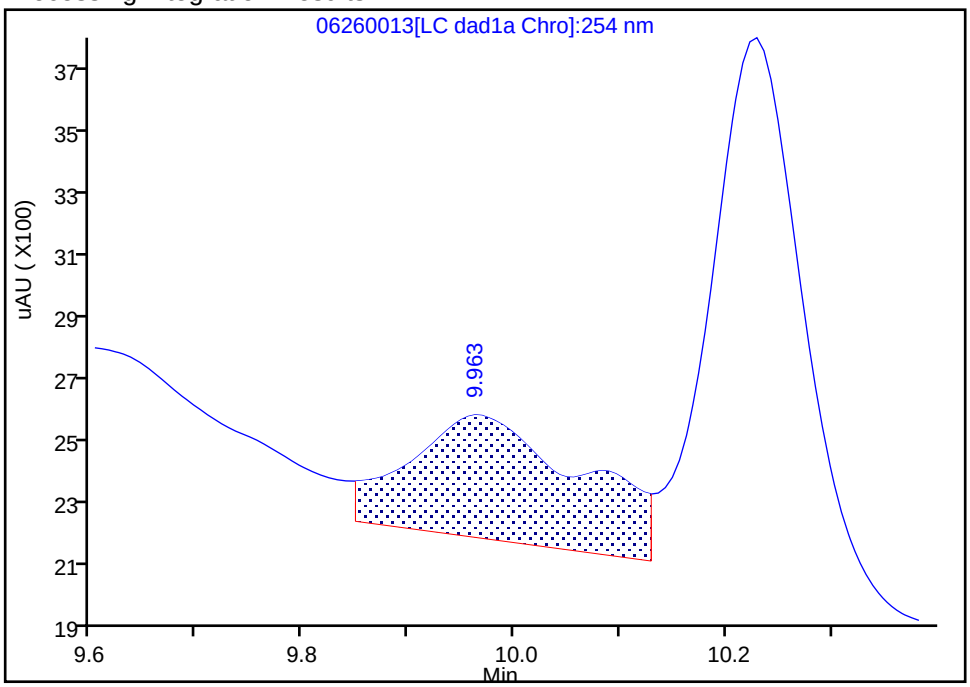
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260013.d				
Injection Date:	26-Jun-2020 19:30:25	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-16-A	Lab Sample ID:	280-137736-16		
Client ID:	G0093-20A				
Operator ID:	JZ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

12 Nitrobenzene, CAS: 98-95-3

Signal: 1

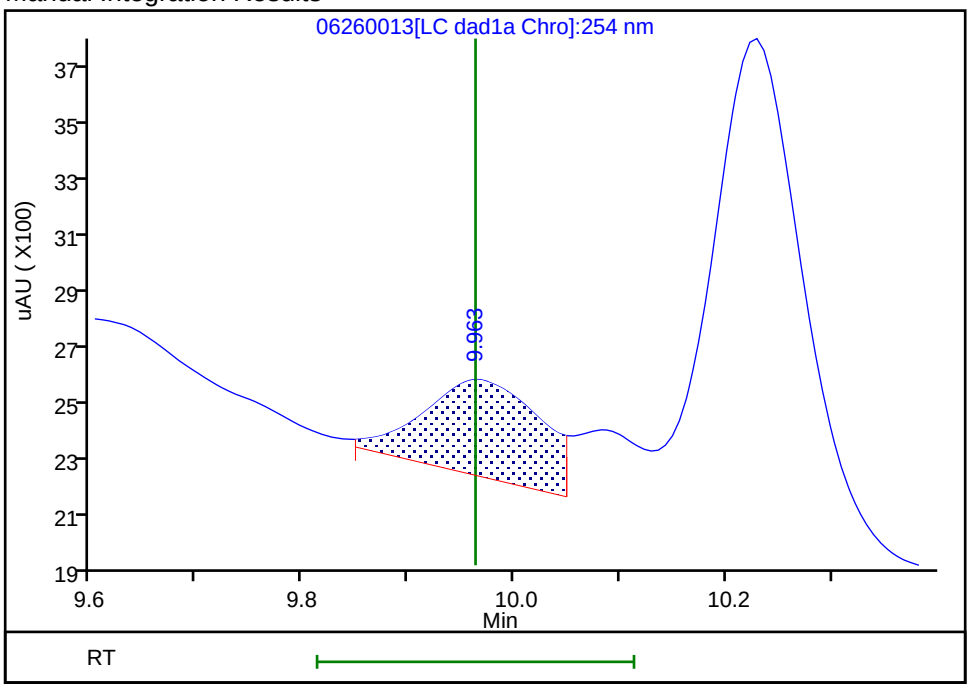
Processing Integration Results

RT: 9.96
Area: 4401
Amount: 0.021961
Amount Units: ug/mL



Manual Integration Results

RT: 9.96
Area: 2563
Amount: 0.012789
Amount Units: ug/mL



Reviewer: zhangji, 26-Jun-2020 19:55:55

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

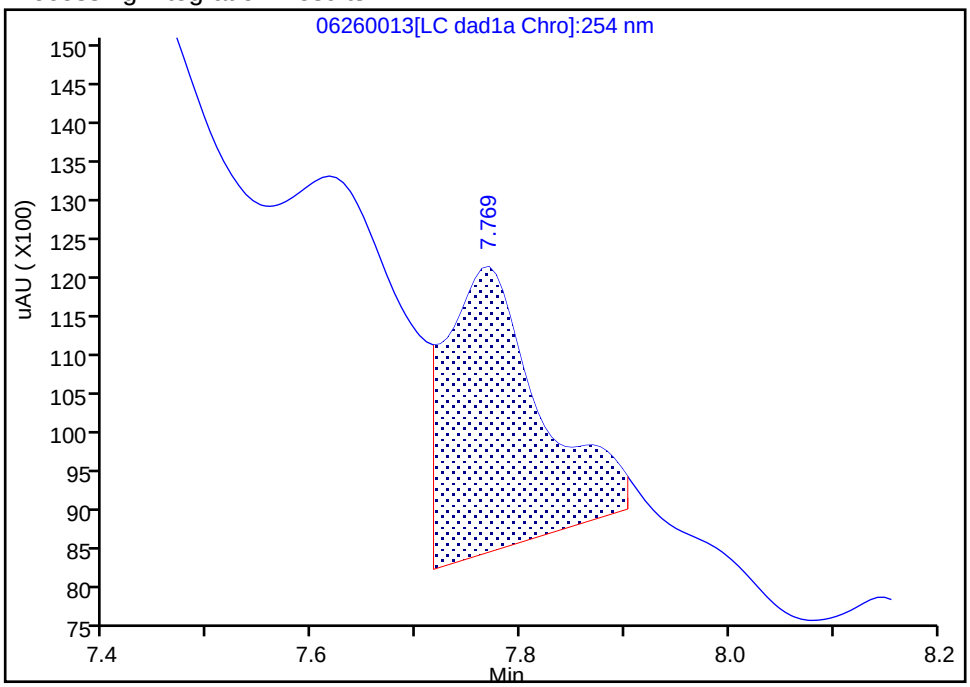
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260013.d				
Injection Date:	26-Jun-2020 19:30:25	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-16-A	Lab Sample ID:	280-137736-16		
Client ID:	G0093-20A				
Operator ID:	JZ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

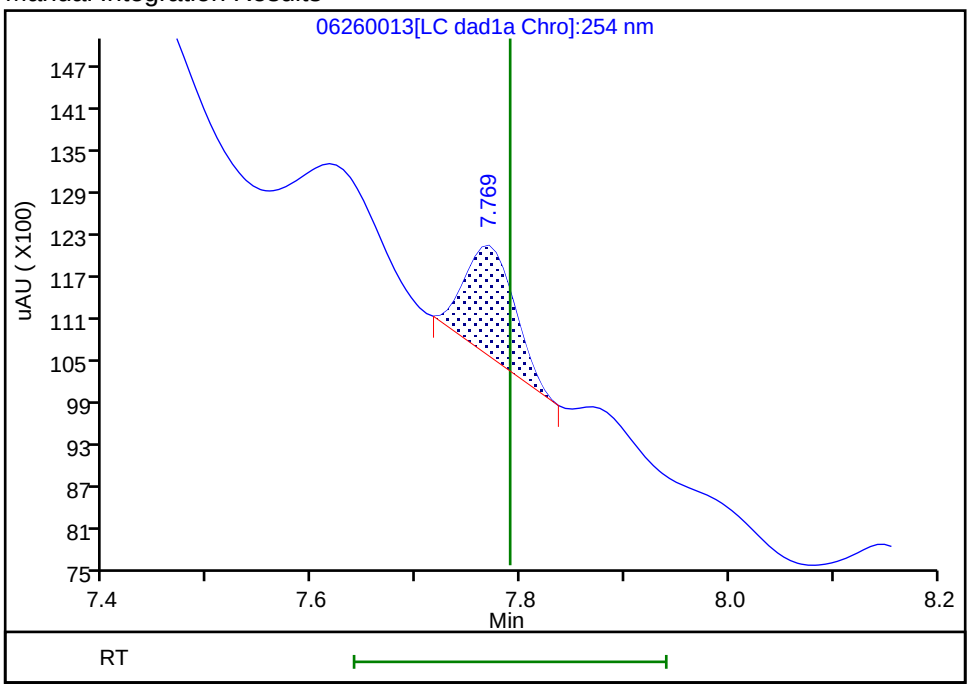
Processing Integration Results

RT: 7.77
Area: 23258
Amount: 0.199446
Amount Units: ug/mL



Manual Integration Results

RT: 7.77
Area: 5234
Amount: 0.044883
Amount Units: ug/mL



Reviewer: zhangji, 26-Jun-2020 19:55:15

Audit Action: Manually Integrated Audit Reason: Baseline

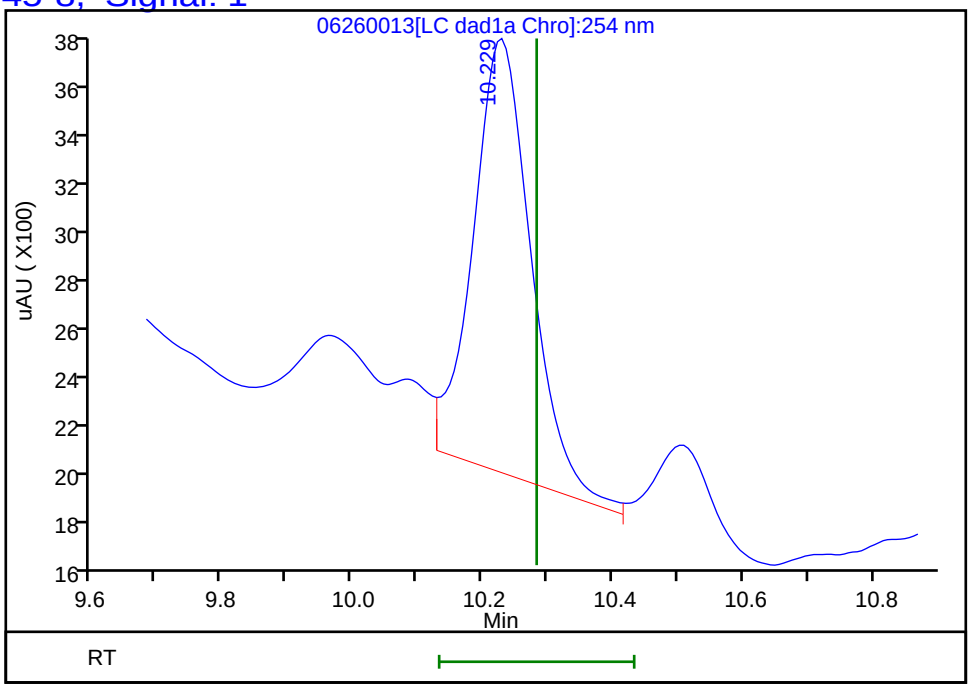
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260013.d				
Injection Date:	26-Jun-2020 19:30:25	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-16-A	Lab Sample ID:	280-137736-16		
Client ID:	G0093-20A				
Operator ID:	JZ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.23
Response: 10683
Amount: 0.060345



Reviewer: zhangji, 26-Jun-2020 19:56:00
Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0093-20A Lab Sample ID: 280-137736-16

Matrix: Water Lab File ID: 06260025.D

Analysis Method: 8330A Date Collected: 06/16/2020 08:25

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 466.1(mL) Date Analyzed: 06/27/2020 05:04

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

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

Analysis Batch No.: 500326 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
121-14-2	2,4-Dinitrotoluene	0.086	U Q	0.11	0.086	0.029
35572-78-2	*2-Amino-4,6-dinitrotoluene*	*0.51*	*Q M J1*	*0.12*	0.11	*0.054*
5755-27-1	MNX	0.43	U	2.1	0.43	0.17
98-95-3	Nitrobenzene	0.21	U Q	0.23	0.21	0.098
121-82-4	RDX	0.21	U M Q	0.23	0.21	0.055

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	75	*M Q*	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260025.D
Lims ID: 280-137736-A-16-A
Client ID: G0093-20A
Sample Type: Client
Inject. Date: 27-Jun-2020 05:04:18 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-16-
Misc. Info.: 280-0092796-025
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 15:28:01 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 27-Jun-2020 12:01:13

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
	6 HMX	1	7.119	7.154	-0.035	19781	0.0817	M
	7 MNX	1		7.919			ND	
	8 RDX	1		9.367			ND	U
	9 Nitrobenzene	1		12.274			ND	
$	10 1,2-Dinitrobenzene	1	13.252	13.281	-0.029	43546	0.1504	M
	12 1,3-Dinitrobenzene	1		15.814			ND	U
	14 o-Nitrotoluene	1		16.754			ND	U
	15 p-Nitrotoluene	1		17.034			ND	
	16 4-Amino-2,6-dinitrotoluene	1		17.474			ND	
	17 m-Nitrotoluene	1		17.967			ND	MU
	18 2-Amino-4,6-dinitrotoluene	1	18.332	18.407	-0.075	22219	0.0478	M
	19 1,3,5-Trinitrobenzene	1	19.099	19.147	-0.048	19865	0.0420	M
	20 2,6-Dinitrotoluene	1		20.074			ND	
	21 2,4-Dinitrotoluene	1		20.587			ND	
	22 Tetryl	1		23.887			ND	
	23 2,4,6-Trinitrotoluene	1		24.907			ND	

QC Flag Legend

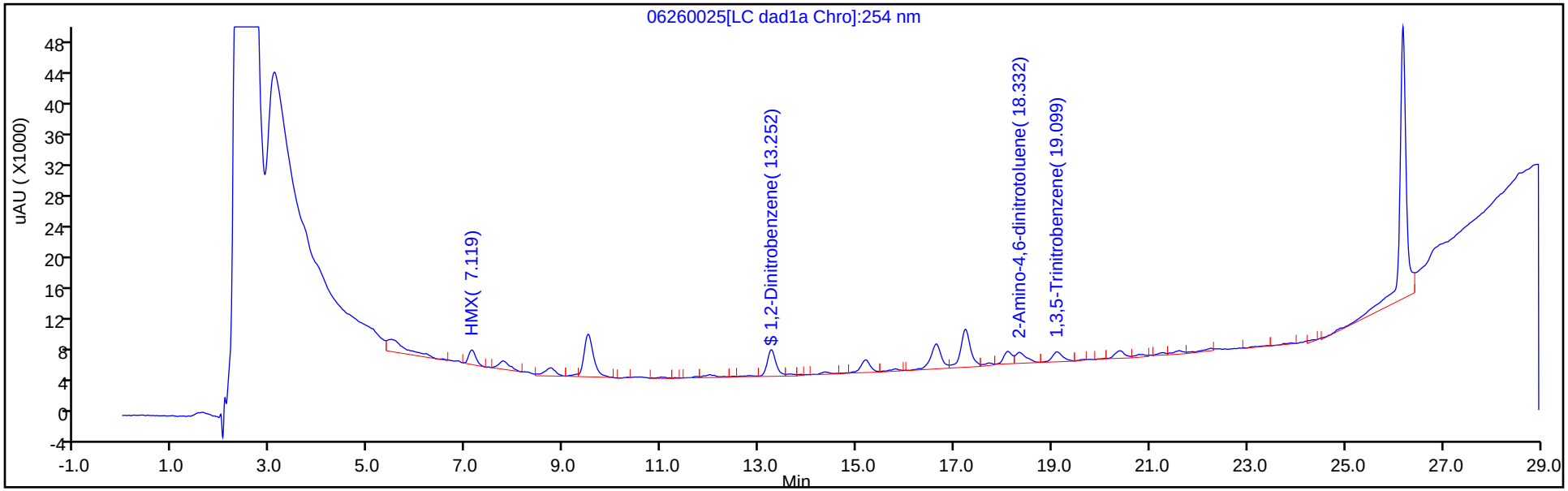
Review Flags
M - Manually Integrated
U - Marked Undetected

Report Date: 27-Jun-2020 15:28:04 Chrom Revision: 2.3 21-Jun-2020 18:30:46

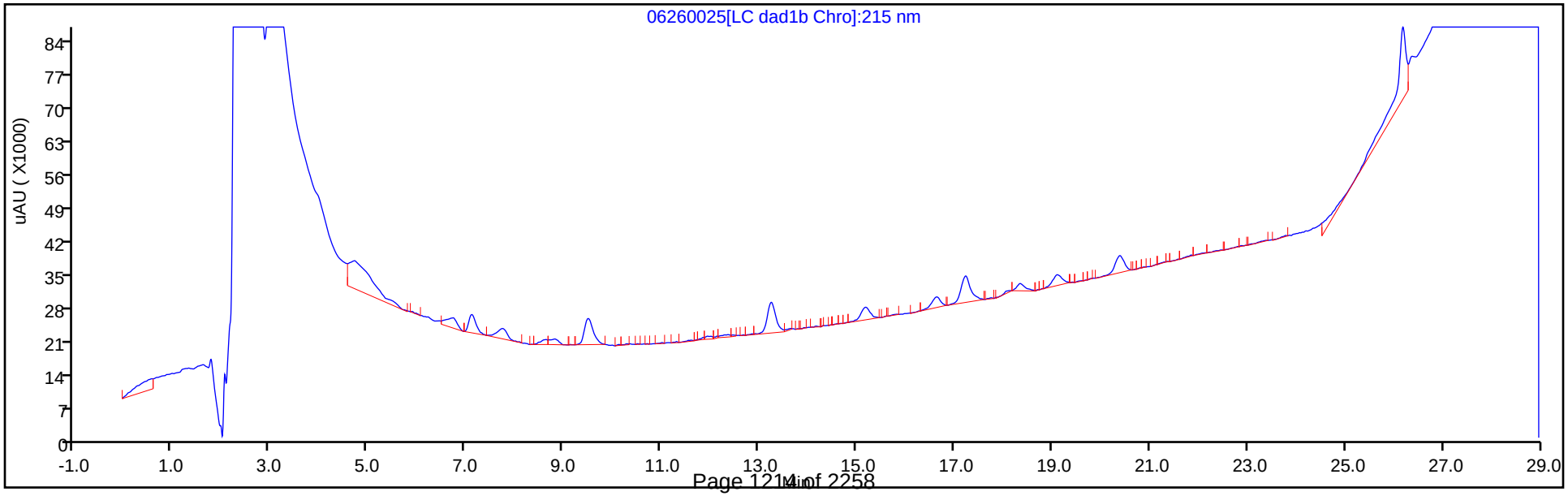
Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260025.d				
Injection Date:	27-Jun-2020 05:04:18	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137736-A-16-A	Lab Sample ID:	280-137736-16	Worklist Smp#:	25
Client ID:	G0093-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260025.D				
Lims ID:	280-137736-A-16-A				
Client ID:	G0093-20A				
Sample Type:	Client				
Inject. Date:	27-Jun-2020 05:04:18	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-16-				
Misc. Info.:	280-0092796-025				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 15:28:01	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1036				
First Level Reviewer: zhangji		Date:	27-Jun-2020 12:01:13		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1504	75.22

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

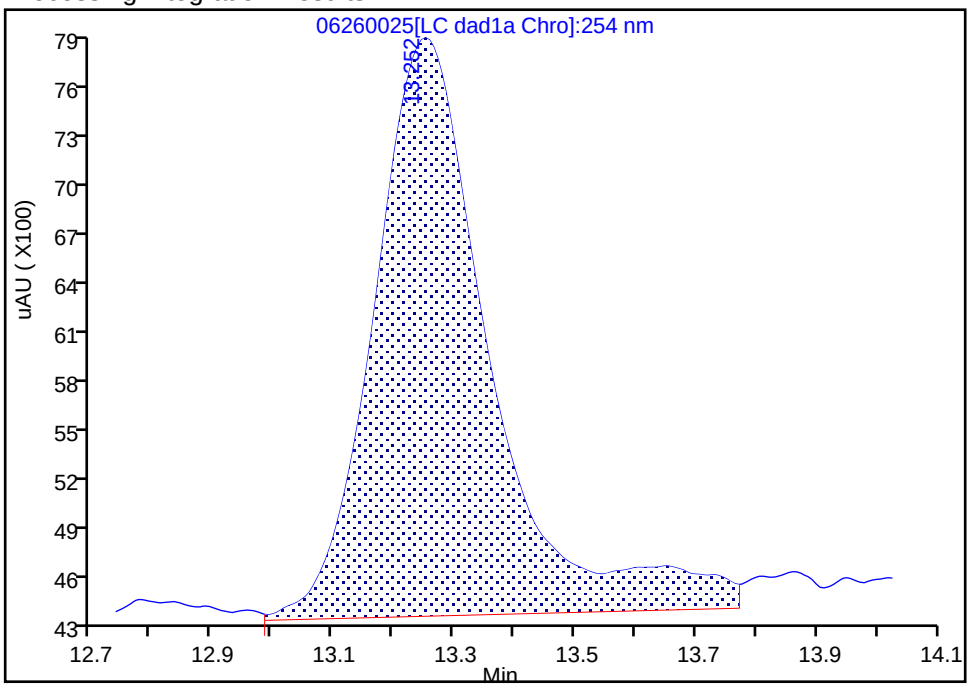
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260025.d				
Injection Date:	27-Jun-2020 05:04:18	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-16-A	Lab Sample ID:	280-137736-16		
Client ID:	G0093-20A				
Operator ID:	JZ	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

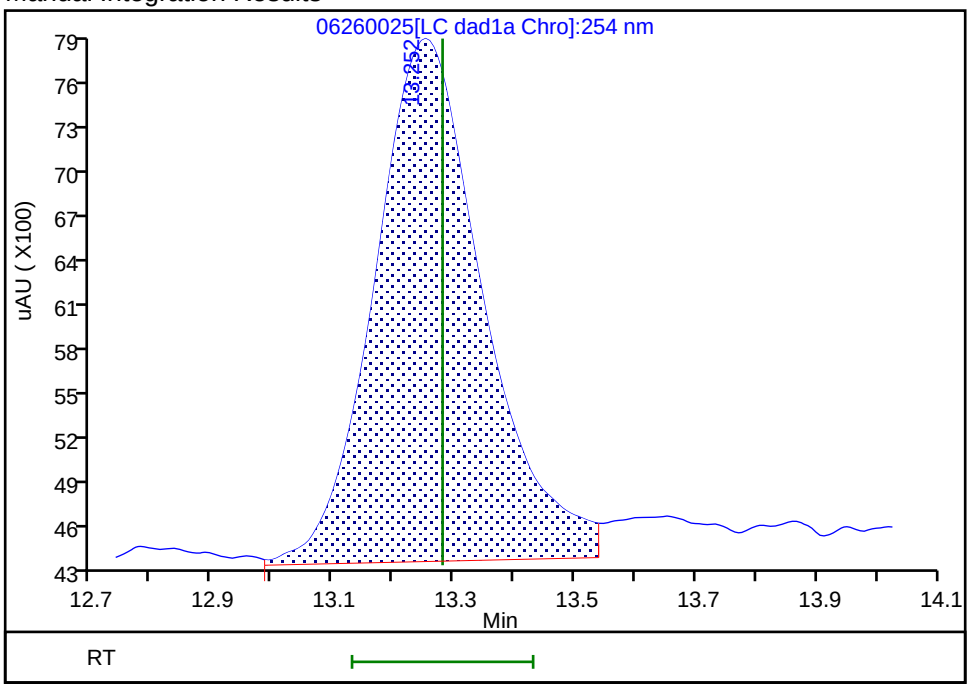
Processing Integration Results

RT: 13.25
Area: 46736
Amount: 0.161950
Amount Units: ug/ml



Manual Integration Results

RT: 13.25
Area: 43546
Amount: 0.150443
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:00:59

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

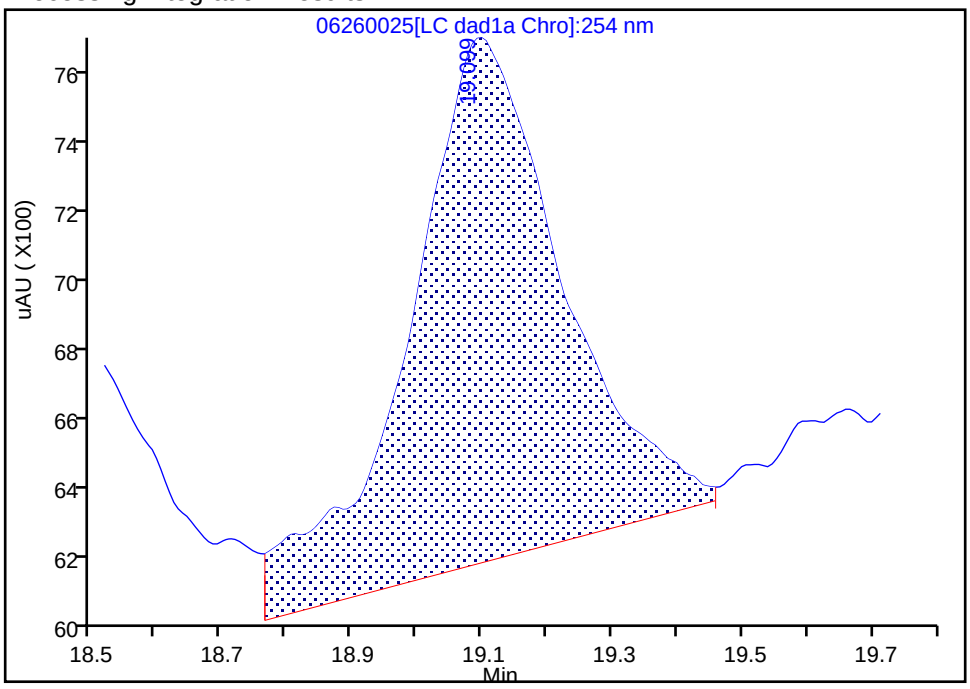
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260025.d				
Injection Date:	27-Jun-2020 05:04:18	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-16-A	Lab Sample ID:	280-137736-16		
Client ID:	G0093-20A				
Operator ID:	JZ	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

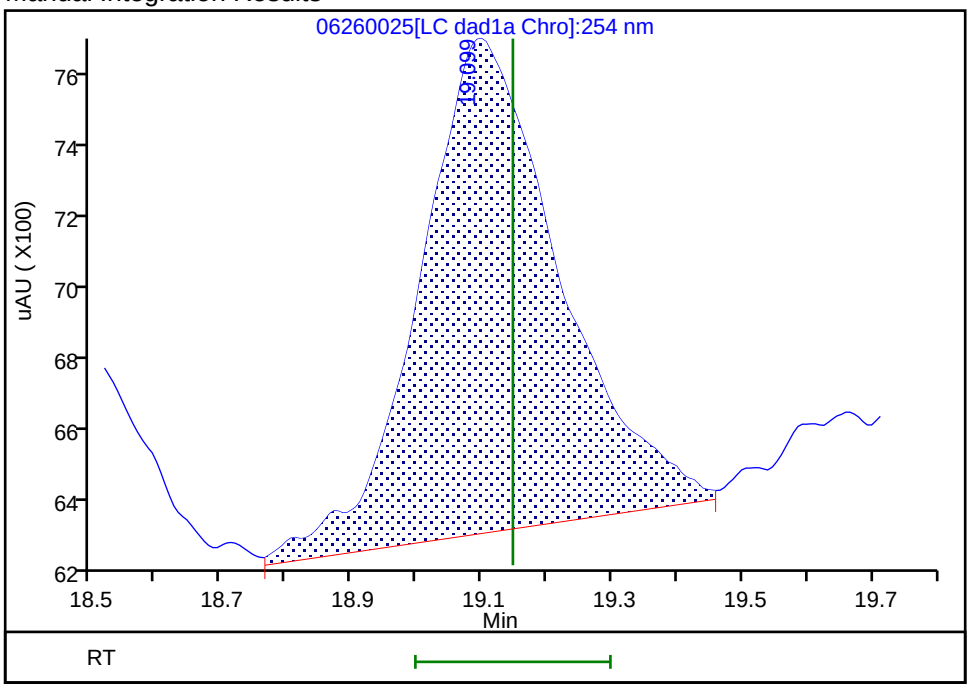
Processing Integration Results

RT: 19.10
Area: 23422
Amount: 0.049576
Amount Units: ug/ml



Manual Integration Results

RT: 19.10
Area: 19865
Amount: 0.042047
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:00:53

Audit Action: Assigned New Baseline Audit Reason: Baseline

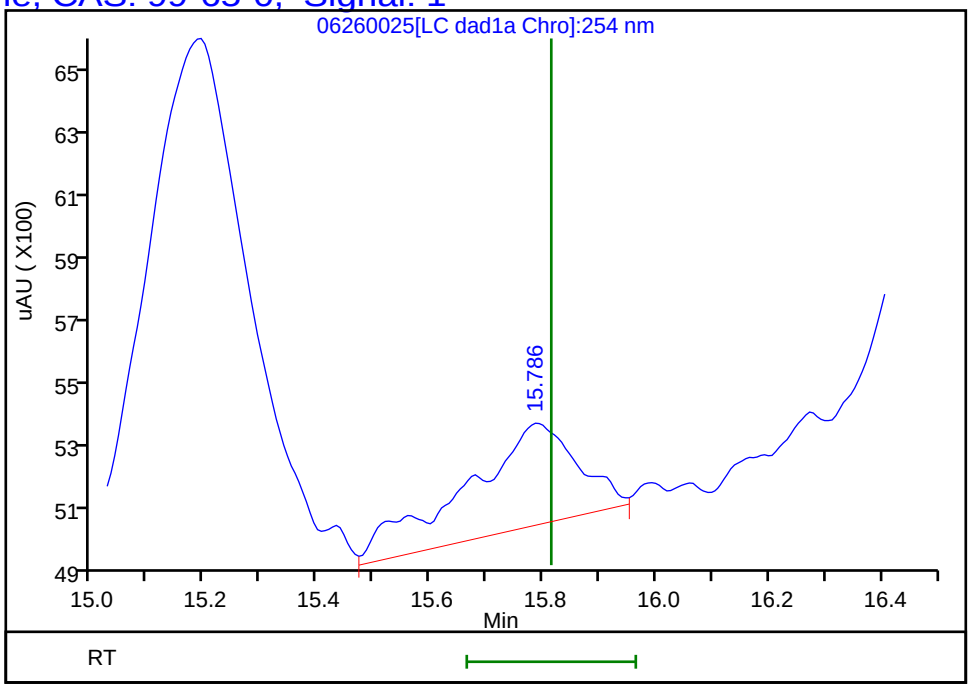
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260025.d				
Injection Date:	27-Jun-2020 05:04:18	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-16-A	Lab Sample ID:	280-137736-16		
Client ID:	G0093-20A				
Operator ID:	JZ	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 15.79
Response: 4382
Amount: 0.006500



Reviewer: zhangji, 27-Jun-2020 12:01:13
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

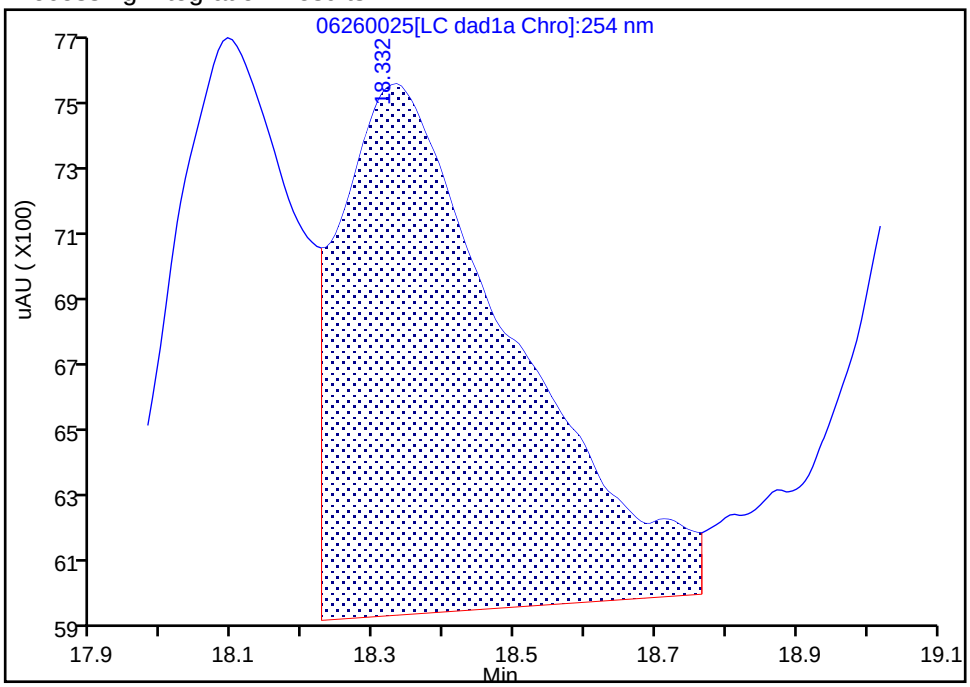
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260025.d				
Injection Date:	27-Jun-2020 05:04:18	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-16-A	Lab Sample ID:	280-137736-16		
Client ID:	G0093-20A				
Operator ID:	JZ	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

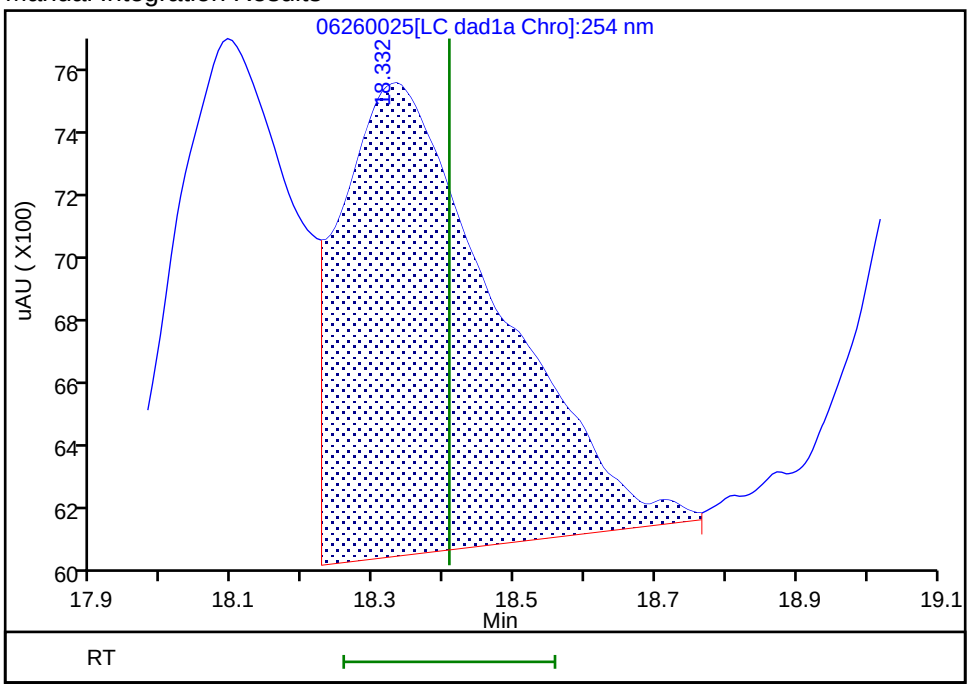
Processing Integration Results

RT: 18.33
Area: 26334
Amount: 0.056607
Amount Units: ug/ml



Manual Integration Results

RT: 18.33
Area: 22219
Amount: 0.047761
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:00:53

Audit Action: Assigned New Baseline Audit Reason: Baseline

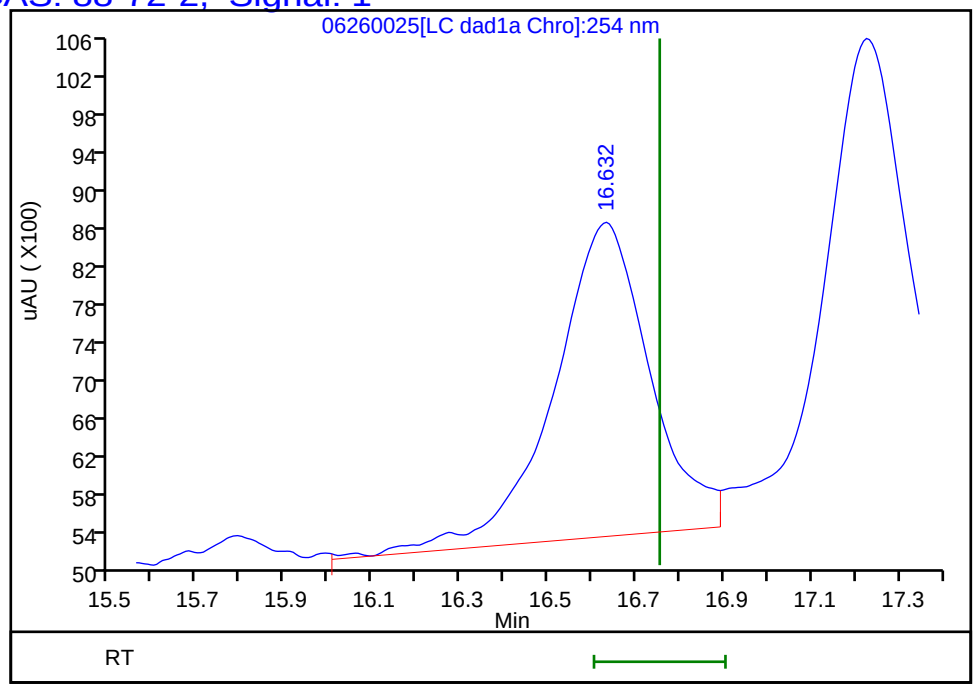
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260025.d				
Injection Date:	27-Jun-2020 05:04:18	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-16-A	Lab Sample ID:	280-137736-16		
Client ID:	G0093-20A				
Operator ID:	JZ	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.63
Response: 49994
Amount: 0.183152



Reviewer: zhangji, 27-Jun-2020 12:01:13
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

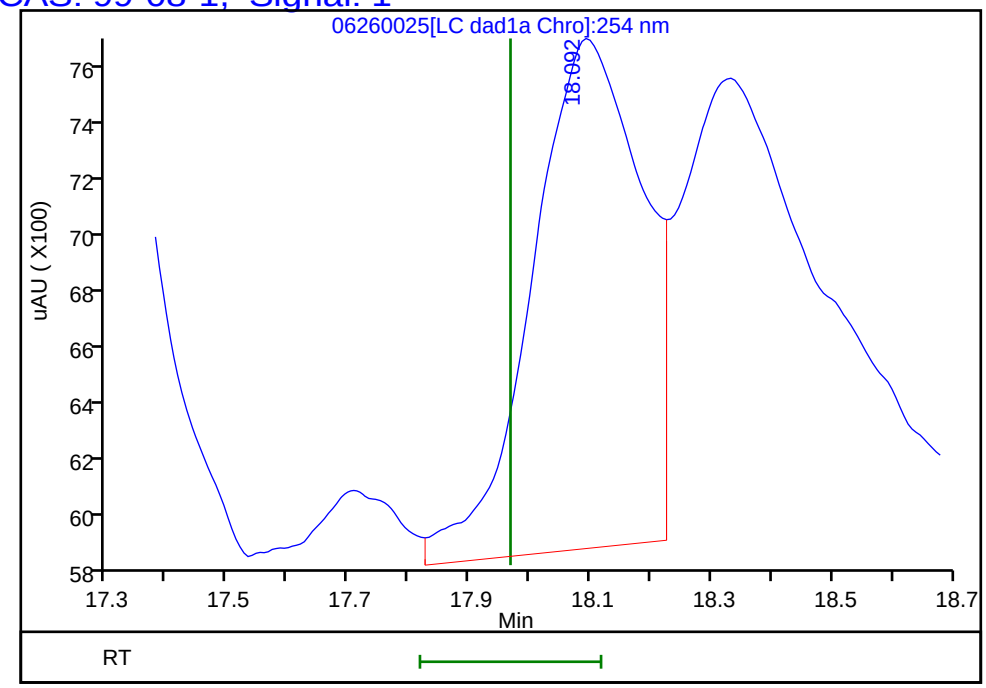
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260025.d				
Injection Date:	27-Jun-2020 05:04:18	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-16-A	Lab Sample ID:	280-137736-16		
Client ID:	G0093-20A				
Operator ID:	JZ	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

17 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 18.09
Response: 21801
Amount: 0.073078



Reviewer: zhangji, 27-Jun-2020 12:01:13
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

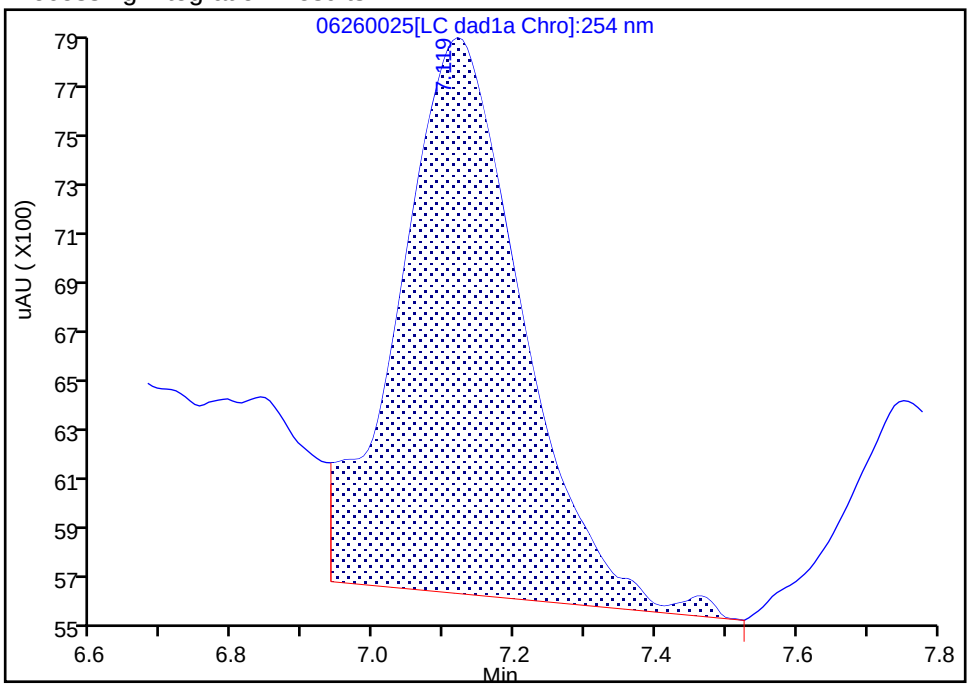
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260025.d				
Injection Date:	27-Jun-2020 05:04:18	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-16-A	Lab Sample ID:	280-137736-16		
Client ID:	G0093-20A				
Operator ID:	JZ	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

6 HMX, CAS: 2691-41-0

Signal: 1

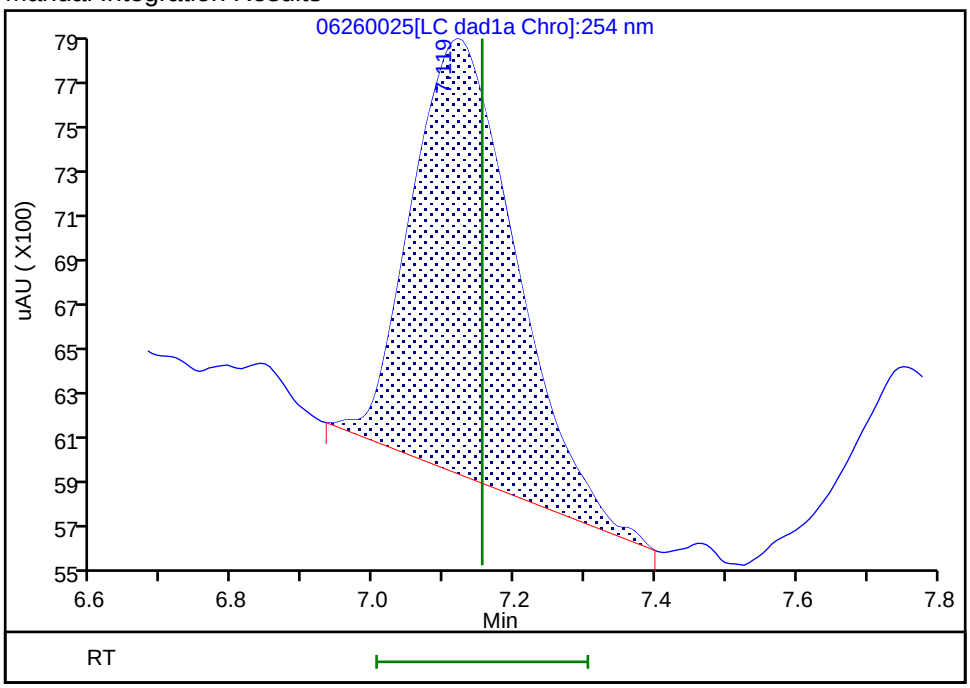
Processing Integration Results

RT: 7.12
Area: 26924
Amount: 0.122025
Amount Units: ug/ml



Manual Integration Results

RT: 7.12
Area: 19781
Amount: 0.081672
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:01:11

Audit Action: Manually Integrated Audit Reason: Baseline

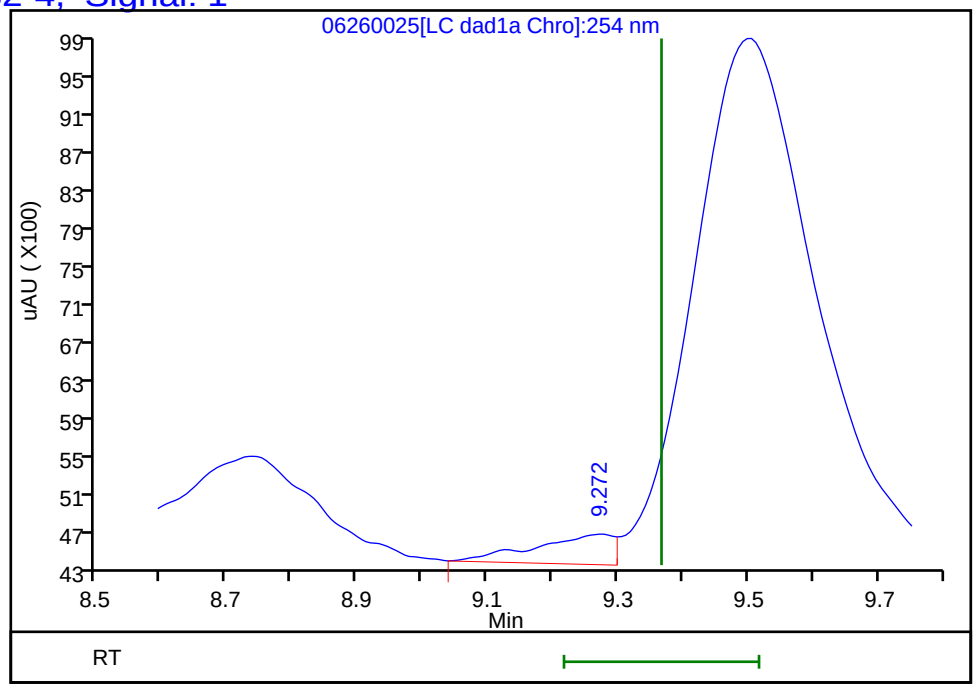
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260025.d				
Injection Date:	27-Jun-2020 05:04:18	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-16-A	Lab Sample ID:	280-137736-16		
Client ID:	G0093-20A				
Operator ID:	JZ	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

8 RDX, CAS: 121-82-4, Signal: 1

RT: 9.27
Response: 2611
Amount: 0.010685



Reviewer: zhangji, 27-Jun-2020 12:01:13
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0086-20A Lab Sample ID: 280-137736-17

Matrix: Water Lab File ID: 06240031.D

Analysis Method: 8330A Date Collected: 06/16/2020 08:15

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 476.2(mL) Date Analyzed: 06/25/2020 01:28

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499988 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	9.4	Q	0.22	0.21	0.088
99-65-0	1,3-Dinitrobenzene	0.10	U Q M	0.12	0.10	0.039
118-96-7	2,4,6-Trinitrotoluene	3.6	Q	0.12	0.10	0.047
121-14-2	2,4-Dinitrotoluene	0.084	U Q	0.10	0.084	0.029
606-20-2	2,6-Dinitrotoluene	0.084	U Q	0.10	0.084	0.042
35572-78-2	2-Amino-4,6-dinitrotoluene	1.6	Q	0.12	0.10	0.053
88-72-2	2-Nitrotoluene	0.21	U Q	0.22	0.21	0.090
99-08-1	3-Nitrotoluene	0.42	U Q	0.42	0.42	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.1	Q	0.16	0.13	0.061
99-99-0	4-Nitrotoluene	0.42	U Q M	0.43	0.42	0.10
2691-41-0	HMX	0.21	U Q M	0.22	0.21	0.092
5755-27-1	MNX	0.42	U M	2.1	0.42	0.16
98-95-3	Nitrobenzene	0.21	U Q	0.22	0.21	0.096
121-82-4	RDX	0.21	J Q	0.22	0.21	0.054
479-45-8	Tetryl	0.10	U Q M	0.12	0.10	0.033

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	81	Q	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240031.D
Lims ID: 280-137736-A-17-A
Client ID: G0086-20A
Sample Type: Client
Inject. Date: 25-Jun-2020 01:28:20 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-17-
Misc. Info.: 280-0092716-031
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:09:57 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:10:45

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1		6.712			ND	U
6 MNX	1		7.384			ND	U
7 RDX	1	7.783	7.785	-0.002	2384	0.0204	
$ 9 1,2-Dinitrobenzene	1	8.743	8.738	0.005	22404	0.1621	
10 1,3,5-Trinitrobenzene	1	8.923	8.918	0.005	206810	0.8980	
11 1,3-Dinitrobenzene	1		9.565			ND	U
12 Nitrobenzene	1		9.945			ND	
14 Tetryl	1		10.252			ND	U
16 2,4,6-Trinitrotoluene	1	11.222	11.225	-0.003	69553	0.3409	
17 4-Amino-2,6-dinitrotoluene	1	11.389	11.385	0.004	17630	0.1054	
18 2-Amino-4,6-dinitrotoluene	1	11.682	11.678	0.004	30575	0.1508	
19 2,6-Dinitrotoluene	1		11.818			ND	
20 2,4-Dinitrotoluene	1		12.018			ND	
21 o-Nitrotoluene	1		12.845			ND	
22 p-Nitrotoluene	1		13.272			ND	U
23 m-Nitrotoluene	1		13.865			ND	

QC Flag Legend

Review Flags
U - Marked Undetected

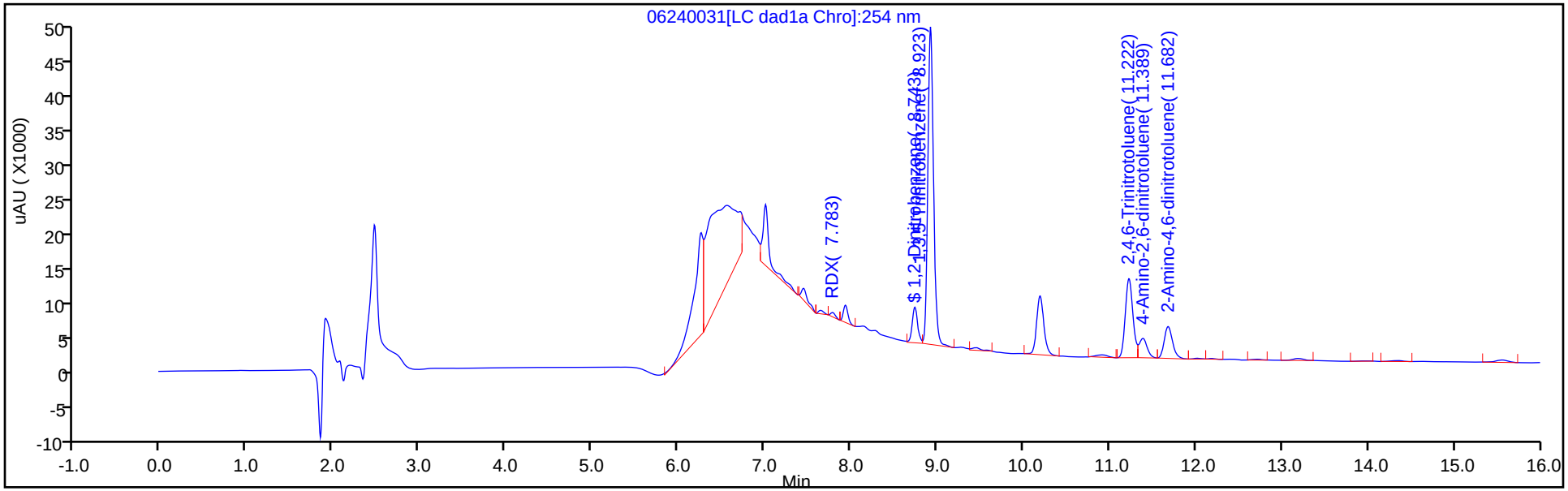
Report Date: 25-Jun-2020 21:10:02 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

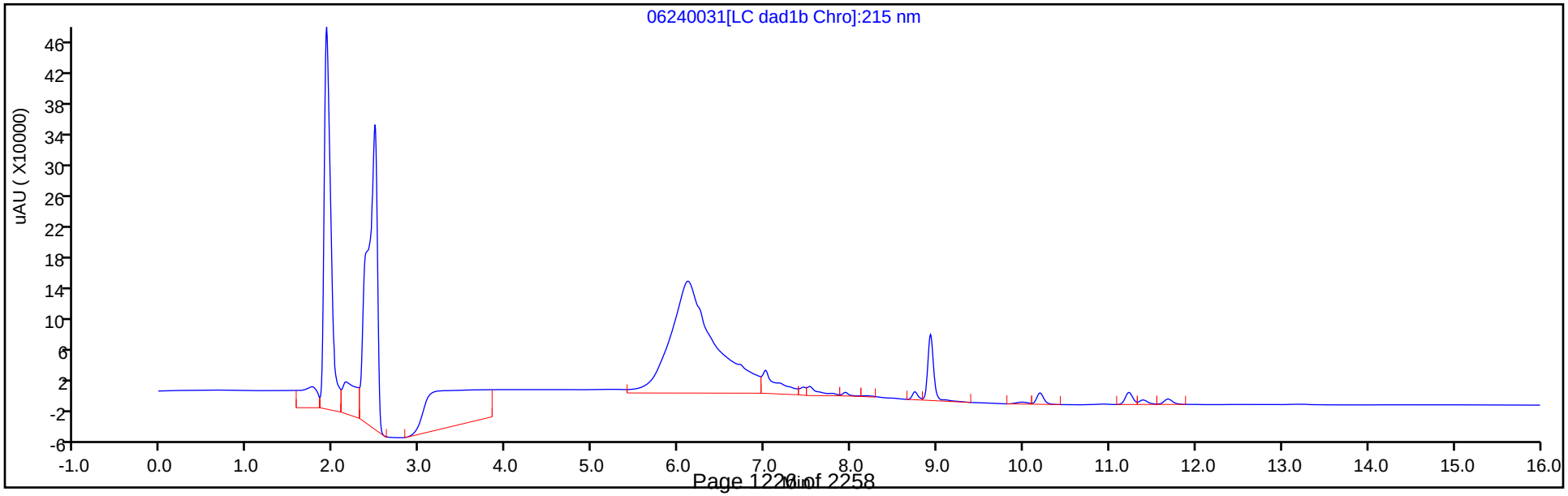
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240031.d

Injection Date:	25-Jun-2020 01:28:20	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-A-17-A	Lab Sample ID:	280-137736-17	Worklist Smp#:	31
Client ID:	G0086-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240031.D				
Lims ID:	280-137736-A-17-A				
Client ID:	G0086-20A				
Sample Type:	Client				
Inject. Date:	25-Jun-2020 01:28:20	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-17-				
Misc. Info.:	280-0092716-031				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	25-Jun-2020 21:09:57	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1063				
First Level Reviewer: zhangji		Date:	25-Jun-2020 16:10:45		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1621	81.05

User Disabled Compound Report

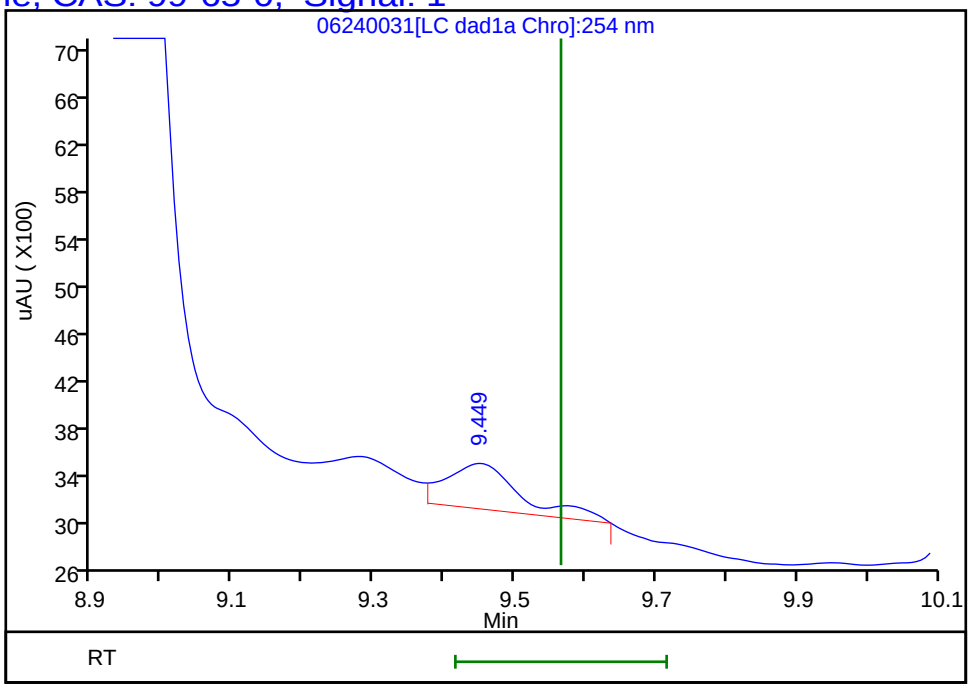
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240031.d

Injection Date:	25-Jun-2020 01:28:20	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-17-A	Lab Sample ID:	280-137736-17		
Client ID:	G0086-20A				
Operator ID:	JZ	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

11 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.45
Response: 2801
Amount: 0.009133



Reviewer: zhangji, 25-Jun-2020 16:10:45
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

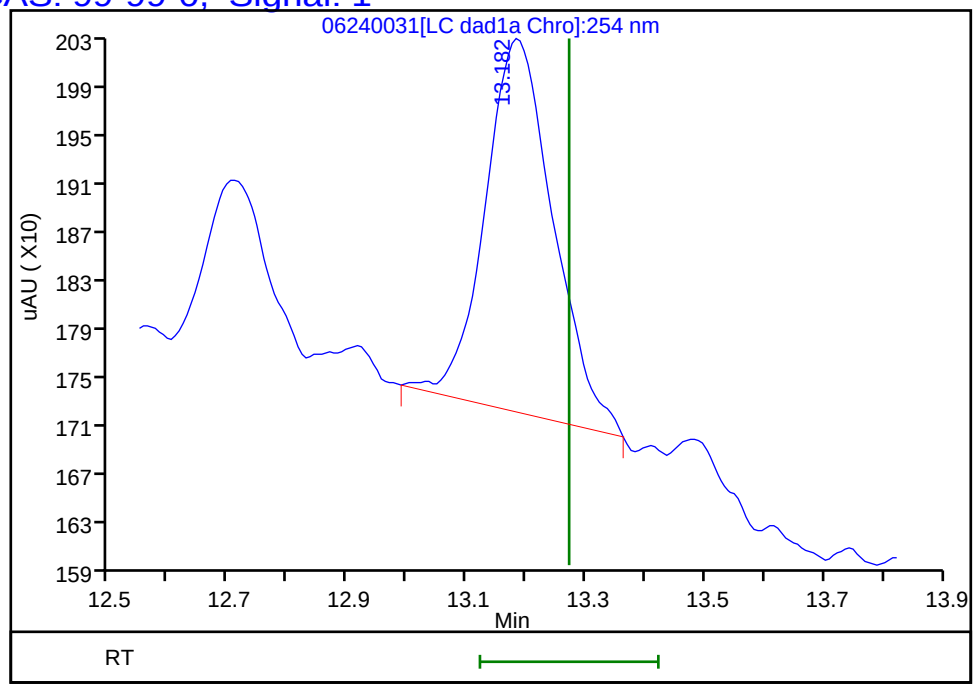
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240031.d				
Injection Date:	25-Jun-2020 01:28:20	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-17-A	Lab Sample ID:	280-137736-17		
Client ID:	G0086-20A				
Operator ID:	JZ	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

22 p-Nitrotoluene, CAS: 99-99-0, Signal: 1

RT: 13.18
Response: 2423
Amount: 0.021442



Reviewer: zhangji, 25-Jun-2020 16:10:45
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

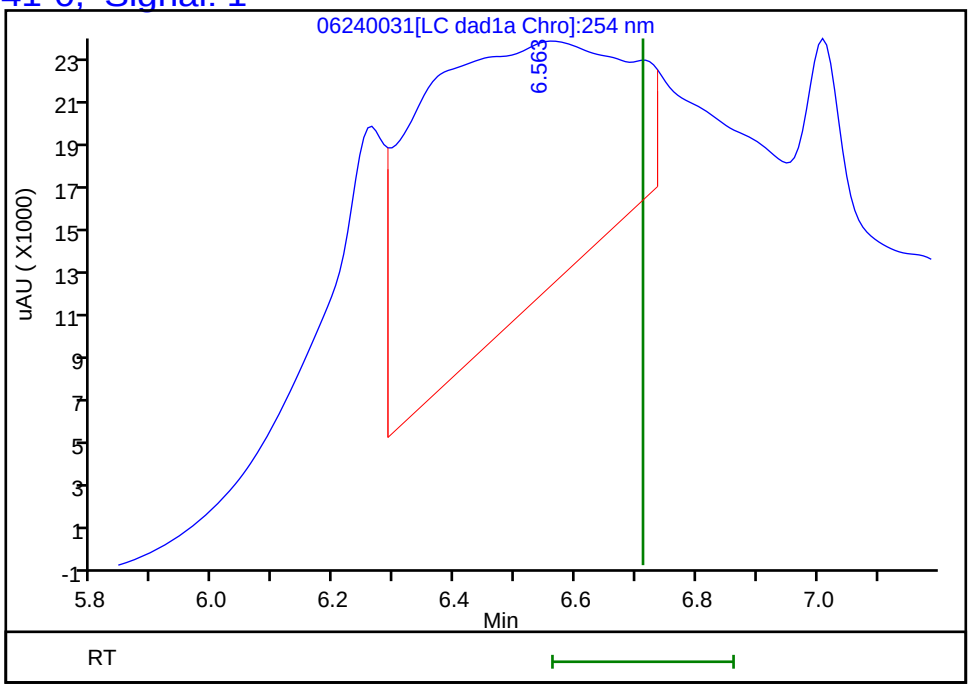
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240031.d				
Injection Date:	25-Jun-2020 01:28:20	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-17-A	Lab Sample ID:	280-137736-17		
Client ID:	G0086-20A				
Operator ID:	JZ	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0, Signal: 1

RT: 6.56
Response: 298688
Amount: 3.474645



Reviewer: zhangji, 25-Jun-2020 16:10:45
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

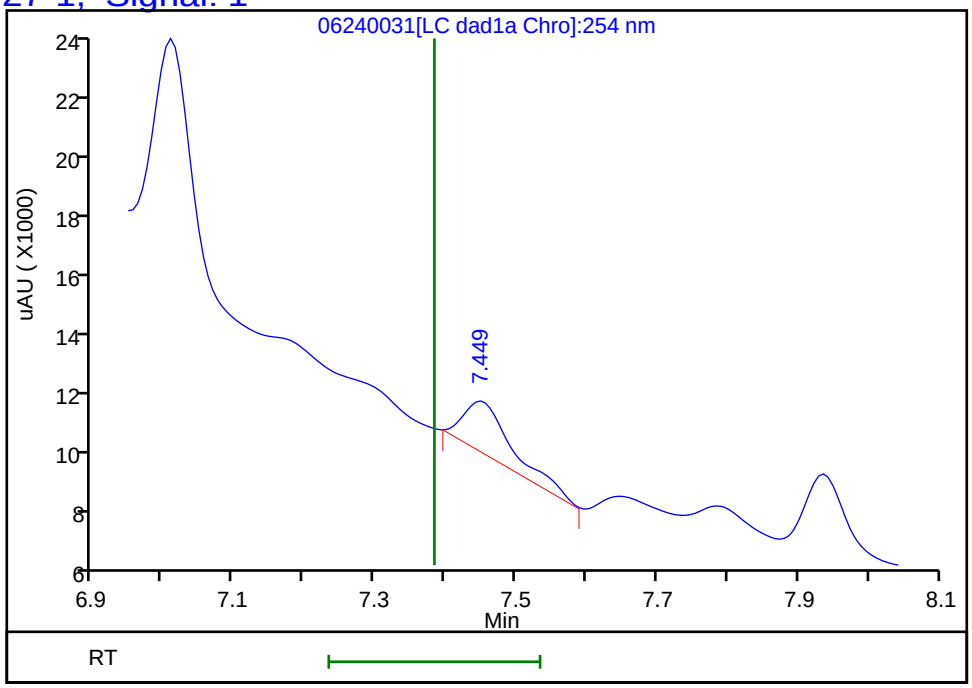
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240031.d				
Injection Date:	25-Jun-2020 01:28:20	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-17-A	Lab Sample ID:	280-137736-17		
Client ID:	G0086-20A				
Operator ID:	JZ	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.45
Response: 8213
Amount: 0.051803



Reviewer: zhangji, 25-Jun-2020 16:10:45
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

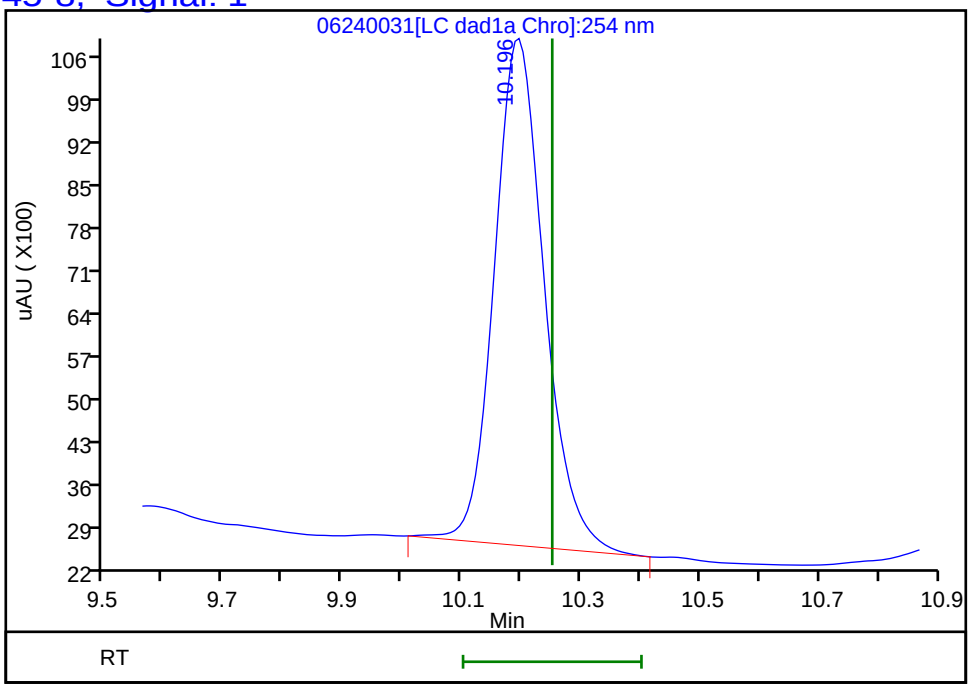
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240031.d				
Injection Date:	25-Jun-2020 01:28:20	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-17-A	Lab Sample ID:	280-137736-17		
Client ID:	G0086-20A				
Operator ID:	JZ	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8, Signal: 1

RT: 10.20
Response: 48807
Amount: 0.275696



Reviewer: zhangji, 25-Jun-2020 16:10:45
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: G0086-20A Lab Sample ID: 280-137736-17

Matrix: Water Lab File ID: 06260026.D

Analysis Method: 8330A Date Collected: 06/16/2020 08:15

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 476.2(mL) Date Analyzed: 06/27/2020 05:39

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: Luna-phenylhex ID: 4.6(mm)

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

Analysis Batch No.: 500326 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	78	Q	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260026.D
Lims ID: 280-137736-A-17-A
Client ID: G0086-20A
Sample Type: Client
Inject. Date: 27-Jun-2020 05:39:16 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-17-
Misc. Info.: 280-0092796-026
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 15:28:01 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 27-Jun-2020 12:02:04

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
	6 HMX	1	7.132	7.154	-0.022	5503	0.001011	7M
	7 MNX	1		7.919			ND	
	8 RDX	1	9.345	9.367	-0.022	4807	0.0197	M
	9 Nitrobenzene	1		12.274			ND	
$	10 1,2-Dinitrobenzene	1	13.245	13.281	-0.036	44991	0.1557	
	12 1,3-Dinitrobenzene	1		15.814			ND	
	14 o-Nitrotoluene	1		16.754			ND	U
	15 p-Nitrotoluene	1		17.034			ND	
	16 4-Amino-2,6-dinitrotoluene	1	17.431	17.474	-0.043	35574	0.1030	M
	17 m-Nitrotoluene	1		17.967			ND	
	18 2-Amino-4,6-dinitrotoluene	1	18.351	18.407	-0.056	87386	0.1878	
	19 1,3,5-Trinitrobenzene	1	19.105	19.147	-0.042	412751	0.8736	
	20 2,6-Dinitrotoluene	1		20.074			ND	
	21 2,4-Dinitrotoluene	1	20.565	20.587	-0.022	2724	0.004255	M
	22 Tetryl	1		23.887			ND	
	23 2,4,6-Trinitrotoluene	1	24.865	24.907	-0.042	127949	0.3107	

QC Flag Legend

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

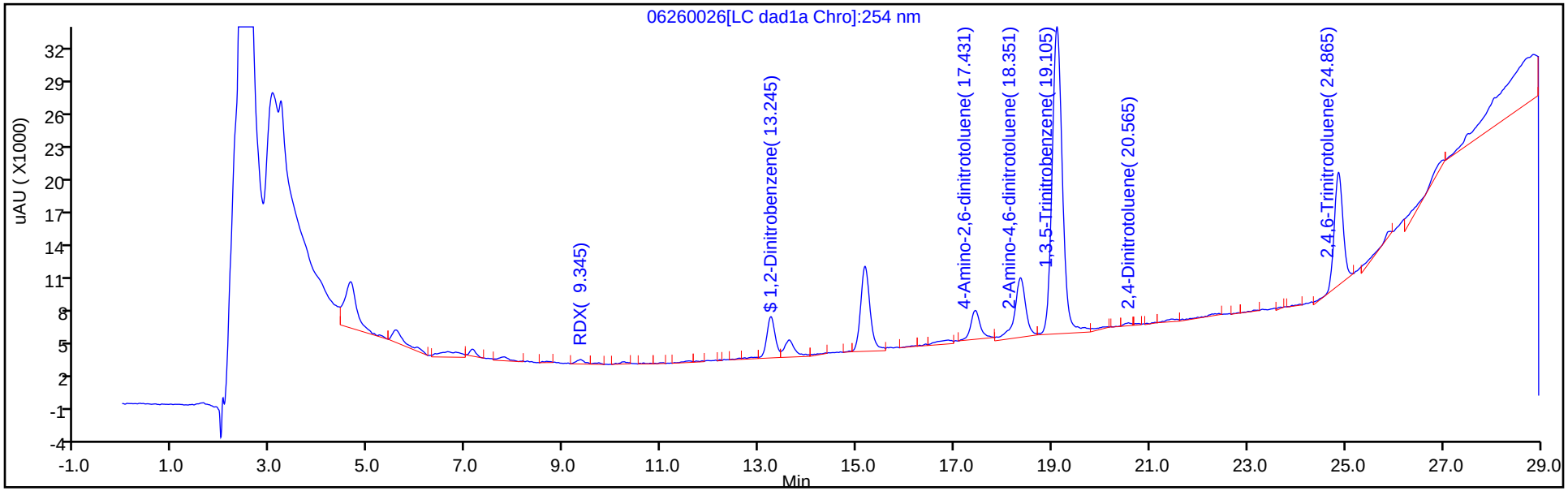
Report Date: 27-Jun-2020 15:28:05 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

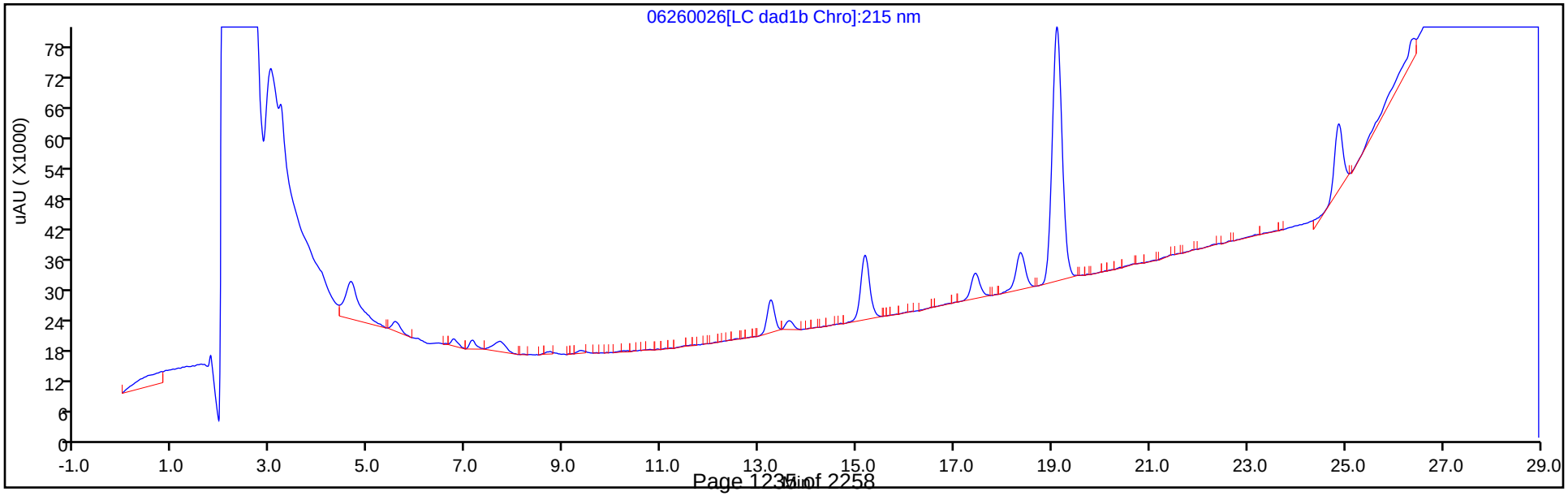
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260026.d

Injection Date:	27-Jun-2020 05:39:16	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	280-137736-A-17-A	Lab Sample ID:	280-137736-17	Worklist Smp#:	26
Client ID:	G0086-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260026.D				
Lims ID:	280-137736-A-17-A				
Client ID:	G0086-20A				
Sample Type:	Client				
Inject. Date:	27-Jun-2020 05:39:16	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-17-				
Misc. Info.:	280-0092796-026				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 15:28:01	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1036				
First Level Reviewer: zhangji		Date:	27-Jun-2020 12:02:04		

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 1,2-Dinitrobenzene	0.2000	0.1557	77.83

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

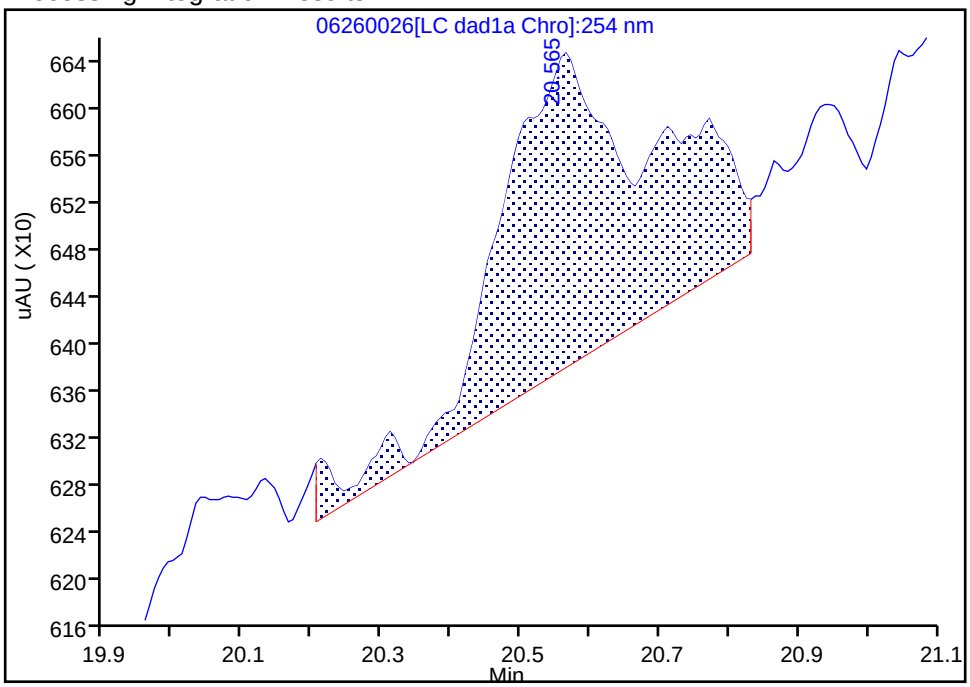
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260026.d		
Injection Date:	27-Jun-2020 05:39:16	Instrument ID:	CHHPLC_G2_LUNA
Lims ID:	280-137736-A-17-A	Lab Sample ID:	280-137736-17
Client ID:	G0086-20A		
Operator ID:	JZ	ALS Bottle#:	26 Worklist Smp#: 26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

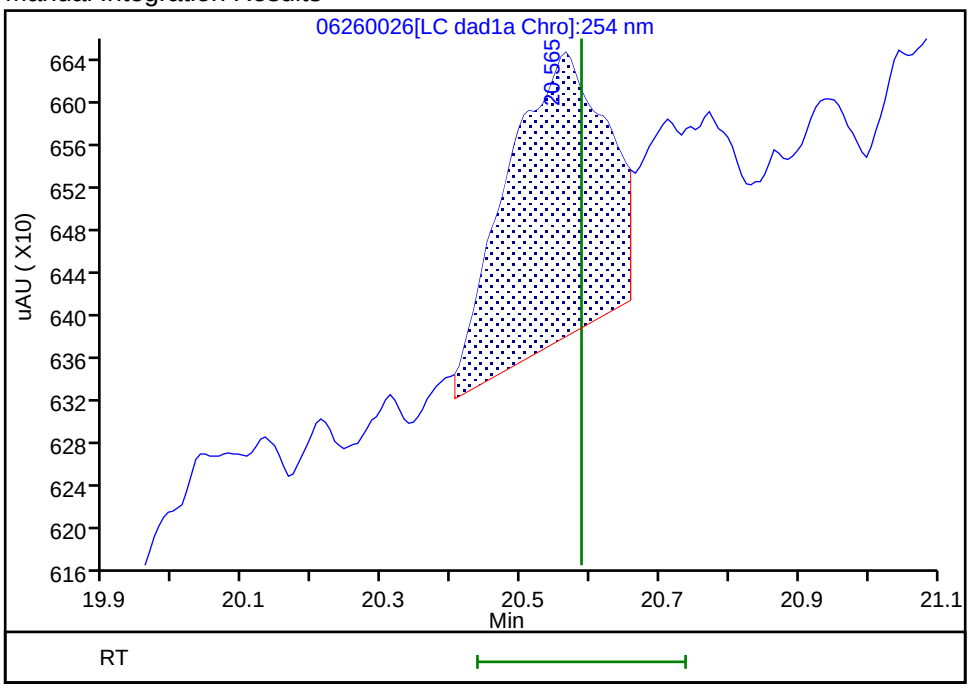
Processing Integration Results

RT: 20.56
Area: 4221
Amount: 0.006594
Amount Units: ug/ml



Manual Integration Results

RT: 20.56
Area: 2724
Amount: 0.004255
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:02:00

Audit Action: Split an Integrated Peak Audit Reason: Baseline

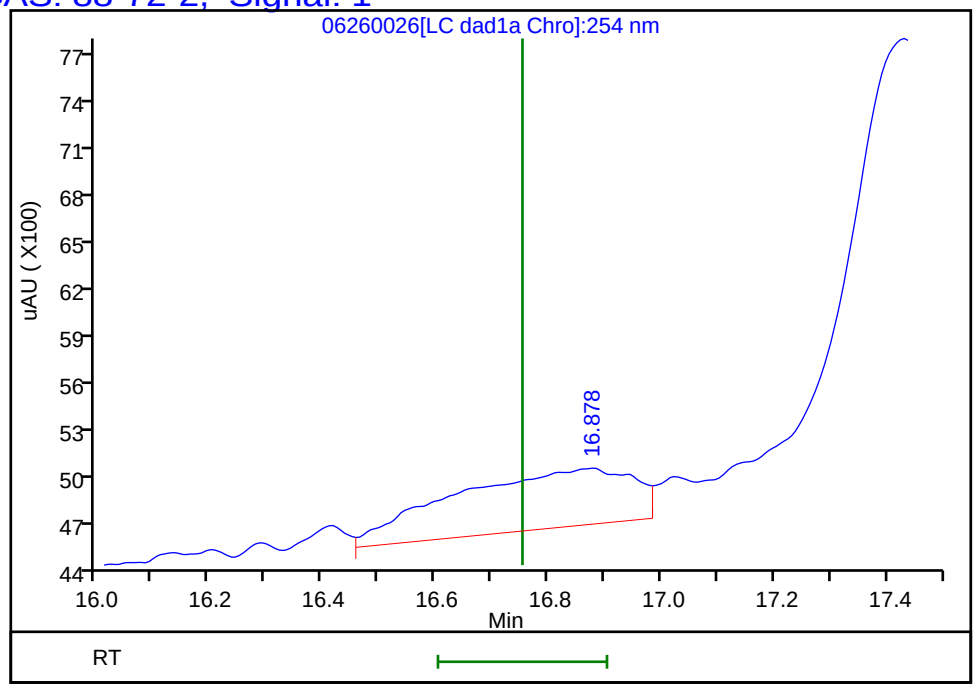
User Disabled Compound Report

Eurofins TestAmerica, Denver

Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260026.d				
Injection Date:	27-Jun-2020 05:39:16	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-17-A	Lab Sample ID:	280-137736-17		
Client ID:	G0086-20A				
Operator ID:	JZ	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

14 o-Nitrotoluene, CAS: 88-72-2, Signal: 1

RT: 16.88
Response: 8355
Amount: 0.030608



Reviewer: zhangji, 27-Jun-2020 12:02:04
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

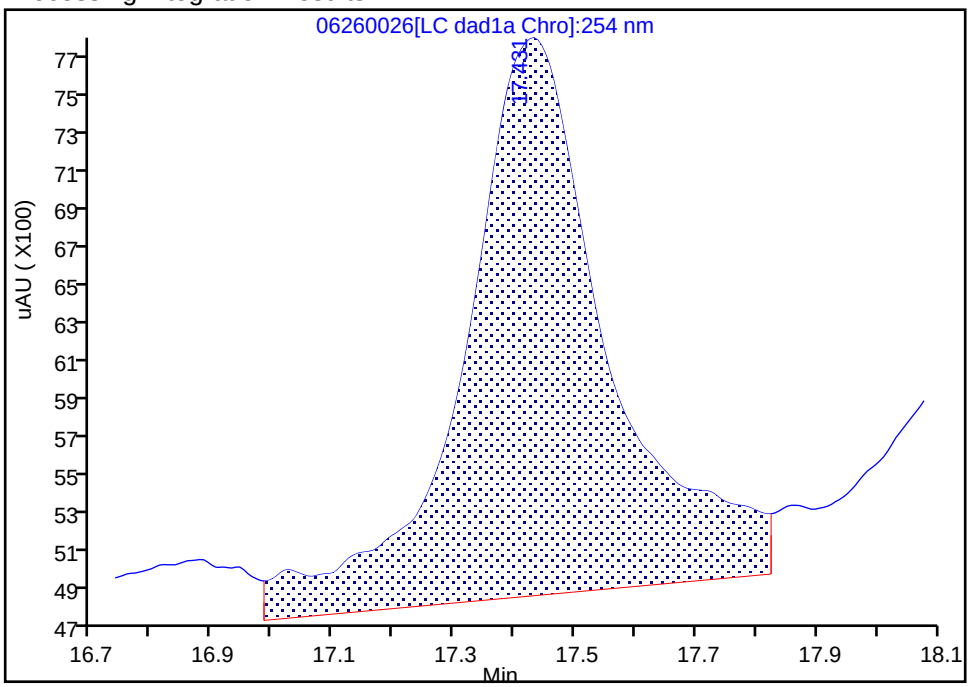
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260026.d				
Injection Date:	27-Jun-2020 05:39:16	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-17-A	Lab Sample ID:	280-137736-17		
Client ID:	G0086-20A				
Operator ID:	JZ	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

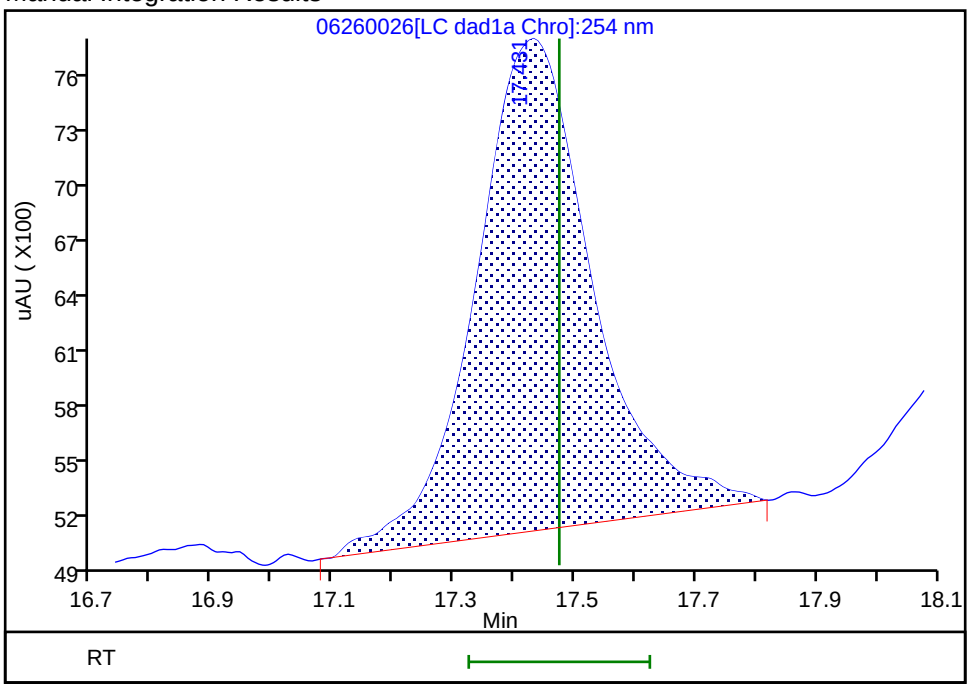
Processing Integration Results

RT: 17.43
Area: 48584
Amount: 0.140727
Amount Units: ug/ml



Manual Integration Results

RT: 17.43
Area: 35574
Amount: 0.103043
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:01:48

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

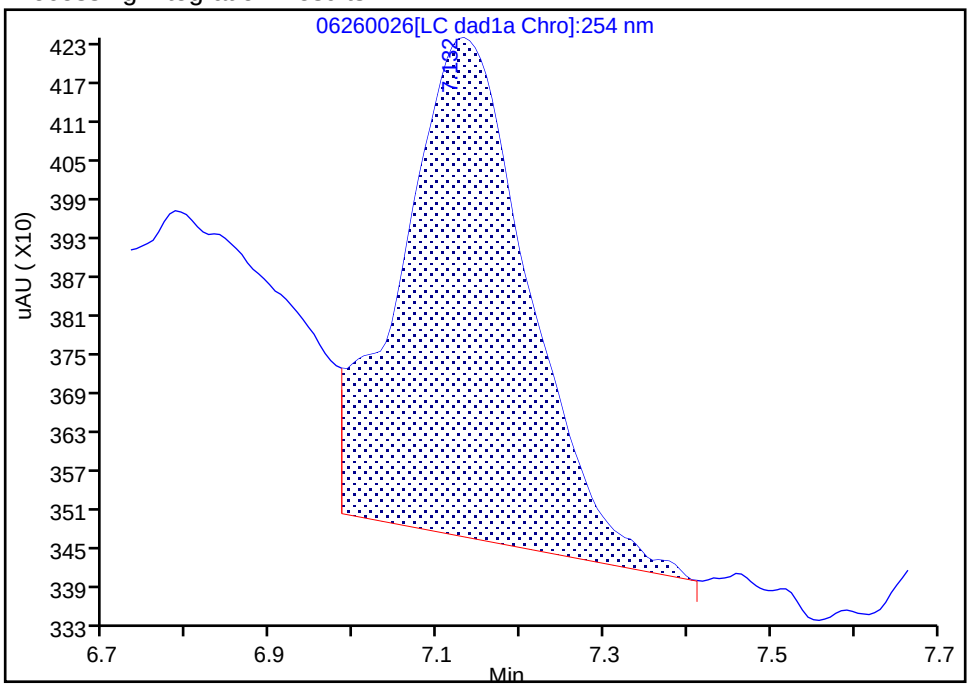
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260026.d				
Injection Date:	27-Jun-2020 05:39:16	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-17-A	Lab Sample ID:	280-137736-17		
Client ID:	G0086-20A				
Operator ID:	JZ	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

6 HMX, CAS: 2691-41-0

Signal: 1

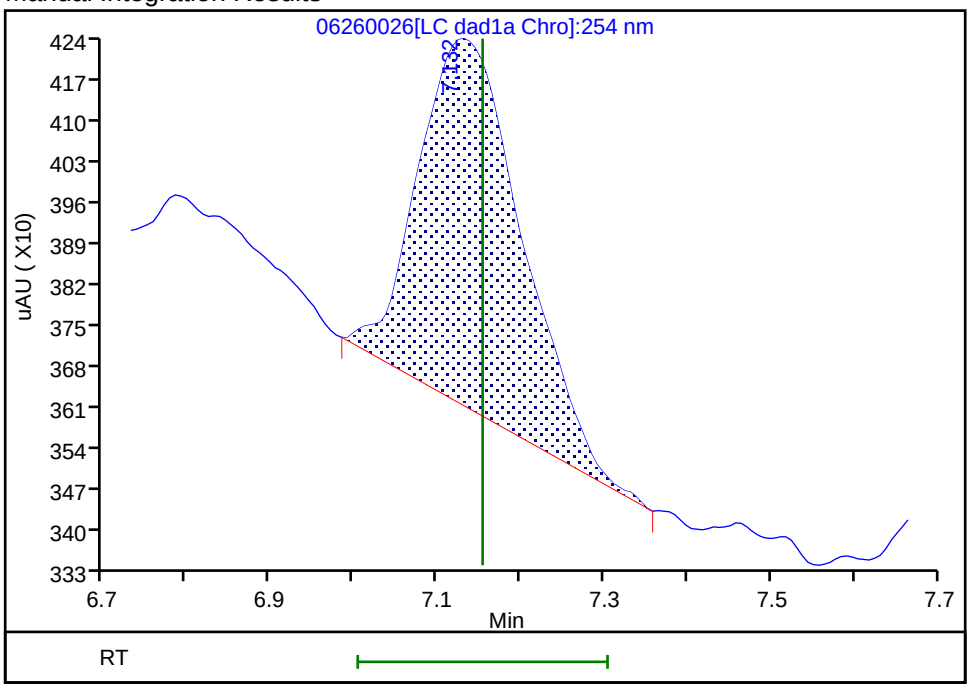
Processing Integration Results

RT: 7.13
Area: 8291
Amount: 0.016762
Amount Units: ug/ml



Manual Integration Results

RT: 7.13
Area: 5503
Amount: 0.001011
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:01:34

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

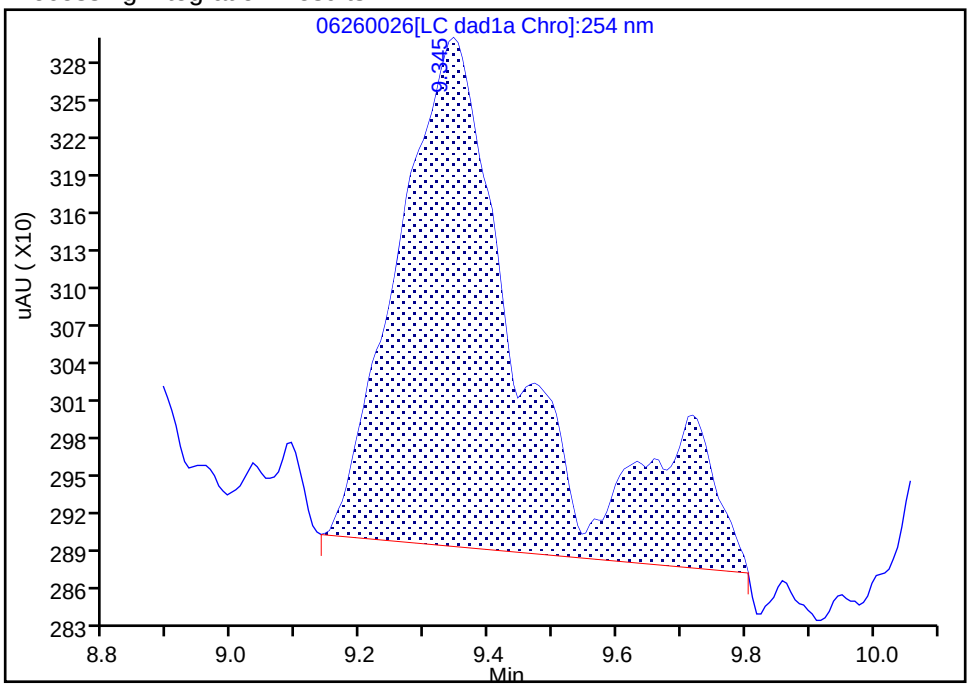
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260026.d				
Injection Date:	27-Jun-2020 05:39:16	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	280-137736-A-17-A	Lab Sample ID:	280-137736-17		
Client ID:	G0086-20A				
Operator ID:	JZ	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

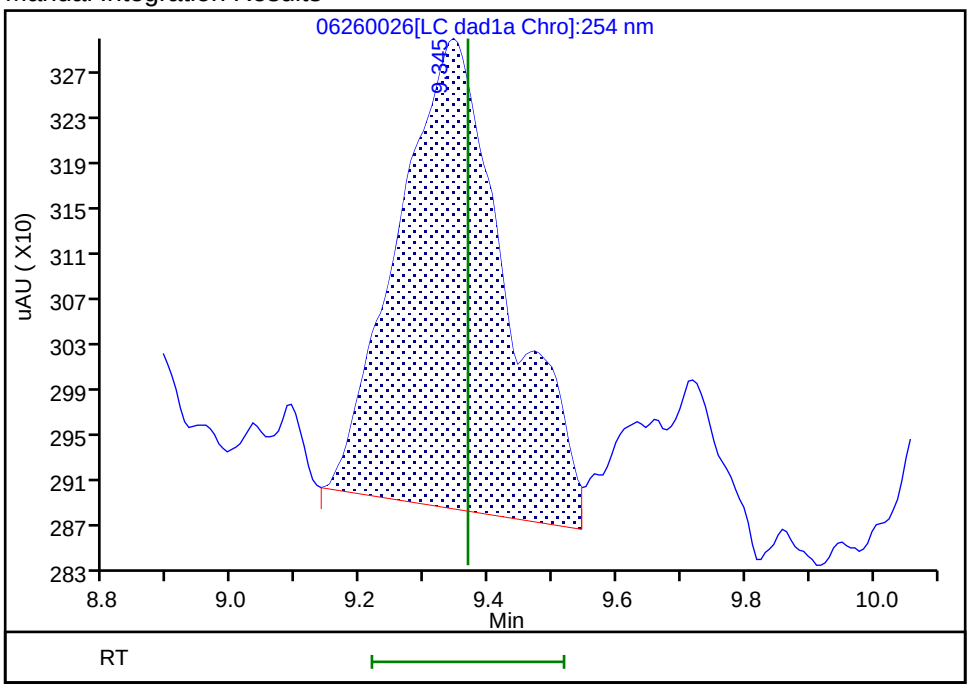
Processing Integration Results

RT: 9.34
Area: 5601
Amount: 0.022921
Amount Units: ug/ml



Manual Integration Results

RT: 9.34
Area: 4807
Amount: 0.019672
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:01:28

Audit Action: Split an Integrated Peak Audit Reason: Baseline

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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 494886

SDG No.:

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 16:16 Calibration End Date: 05/14/2020 20:56 Calibration ID: 44234

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-494886/15	05140015.D
Level 2	IC 280-494886/14	05140014.D
Level 3	IC 280-494886/13	05140013.D
Level 4	IC 280-494886/12	05140012.D
Level 5	IC 280-494886/11	05140011.D
Level 6	IC 280-494886/10	05140010.D
Level 7	IC 280-494886/9	05140009.D
Level 8	IC 280-494886/8	05140008.D
Level 9	IC 280-494886/7	05140007.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
Picric acid		6.322	6.331	6.308	6.300	6.267	6.235	6.195	+++++		6.150 - 6.450	6.280
HMX		6.982	6.984	6.994	6.986	6.987	6.982	6.968	6.916		6.836 - 7.136	6.975
RDX		9.095	9.184	9.181	9.173	9.173	9.162	9.148	9.076		9.023 - 9.323	9.149
Nitrobenzene		12.095	12.110	12.114	12.106	12.107	12.095	12.088	11.995		11.956 - 12.256	12.089
1,3-Dinitrobenzene		15.542	15.544	15.554	15.553	15.553	15.548	15.541	15.469		15.403 - 15.703	15.538
Nitroglycerin		15.855	15.844	15.848	15.853	15.853	15.842	15.848	15.782		15.703 - 16.003	15.841
2-Nitrotoluene		16.515	16.550	16.534	16.533	16.540	16.535	16.535	16.475		16.383 - 16.683	16.527
4-Nitrotoluene		16.795	16.837	16.828	16.820	16.820	16.808	16.815	16.715		16.670 - 16.970	16.805
4-Amino-2,6-dinitrotoluene		17.155	17.157	17.148	17.146	17.153	17.142	17.141	17.069		16.996 - 17.296	17.139
3-Nitrotoluene		17.748	17.724	17.741	17.753	17.747	17.742	17.741	17.782		17.603 - 17.903	17.747
2-Amino-4,6-dinitrotoluene		18.048	18.030	18.054	18.046	18.040	18.035	18.028	17.935		17.896 - 18.196	18.027
1,3,5-Trinitrobenzene		18.855	18.864	18.881	18.886	18.887	18.875	18.881	18.829		18.736 - 19.036	18.870
2,6-Dinitrotoluene	+++++	19.828	19.817	19.794	19.806	19.807	19.795	19.801	19.742		19.656 - 19.956	19.799
2,4-Dinitrotoluene	20.295	20.295	20.290	20.288	20.293	20.293	20.288	20.288	20.235		20.143 - 20.443	20.285
Tetryl		23.529	23.557	23.548	23.553	23.553	23.542	23.555	23.516		23.403 - 23.703	23.544
2,4,6-Trinitrotoluene		24.682	24.637	24.654	24.653	24.647	24.642	24.648	24.616		24.503 - 24.803	24.647
PETN		+++++	25.277	25.281	25.280	25.280	25.275	25.281	25.269		25.130 - 25.430	25.278
1,2-Dinitrobenzene		13.022	13.037	13.048	13.040	13.040	13.028	13.028	12.949		12.890 - 13.190	13.024

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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 494886

SDG No.:

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 16:16 Calibration End Date: 05/14/2020 20:56 Calibration ID: 44234

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-494886/15	05140015.D
Level 2	IC 280-494886/14	05140014.D
Level 3	IC 280-494886/13	05140013.D
Level 4	IC 280-494886/12	05140012.D
Level 5	IC 280-494886/11	05140011.D
Level 6	IC 280-494886/10	05140010.D
Level 7	IC 280-494886/9	05140009.D
Level 8	IC 280-494886/8	05140008.D
Level 9	IC 280-494886/7	05140007.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 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Picric acid	194456 +++++	227320 170053	189240 169399	231700 174504	Ave		193810.153				13.5		20.0			
HMX	216260 175837	400720 186210	252920 179567	242940 183992	Lin2	5323.97093	177012.867							0.9900		0.9900
RDX	250504 220101	251440 221363	302380 217280	272330 219481	Ave		244359.838				12.7		20.0			
Nitrobenzene	422566 420057	411355 413613	566215 420302	425090 434621	Ave		439227.211				11.8		20.0			
1,3-Dinitrobenzene	687780 651230	649900 645107	741737 661018	688743 667994	Ave		674188.610				4.7		20.0			
Nitroglycerin	132151 128856	106184 127479	128084 121758	141489 128426	Ave		126803.331				7.9		20.0			
2-Nitrotoluene	252584 263350	272480 263733	320060 259206	290620 261684	Ave		272964.527				8.1		20.0			
4-Nitrotoluene	237944 205745	214531 233965	309222 235547	259042 231055	Ave		240881.296				13.2		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 494886

SDG No.:

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 16:16 Calibration End Date: 05/14/2020 20:56 Calibration ID: 44234

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 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
4-Amino-2,6-dinitrotoluene	316356 338348	374386 325764	441918 319452	324156 321498	Ave		345234.619				12.5		20.0			
3-Nitrotoluene	284364 280237	276523 288039	385215 286309	305554 280373	Ave		298326.800				12.1		20.0			
2-Amino-4,6-dinitrotoluene	449641 452344	413386 446609	577331 454954	473367 454056	Ave		465211.017				10.4		20.0			
1,3,5-Trinitrobenzene	473888 459025	432016 445838	531916 461195	509261 466466	Ave		472450.766				7.0		20.0			
2,6-Dinitrotoluene	+++++ 296084 293622	462869 294056	380618 294513	345209 297272	Lin2	4435.95604	289218.236							0.9990		0.9900
2,4-Dinitrotoluene	636653 610554 606816	669761 610082	743068 605778	672311 605997	Ave		640113.339				7.4		20.0			
Tetryl	368208 349575	394172 348927	403234 350489	384701 350116	Ave		368677.570				6.1		20.0			
2,4,6-Trinitrotoluene	399076 406271	460040 393653	565060 401302	430359 406644	Lin1	3158.03416	401610.023							0.9990		0.9900
PETN	135296 128081	+++++ 139434	204240 136840	132172 136576	Lin1	27366.0232	129287.517							0.9980		0.9900
1,2-Dinitrobenzene	249500 288347	337440 268080	374880 263961	306830 274673	Lin1	1839.02265	277228.024							0.9970		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 494886

SDG No.:

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 16:16 Calibration End Date: 05/14/2020 20:56 Calibration ID: 44234

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-494886/15	05140015.D
Level 2	IC 280-494886/14	05140014.D
Level 3	IC 280-494886/13	05140013.D
Level 4	IC 280-494886/12	05140012.D
Level 5	IC 280-494886/11	05140011.D
Level 6	IC 280-494886/10	05140010.D
Level 7	IC 280-494886/9	05140009.D
Level 8	IC 280-494886/8	05140008.D
Level 9	IC 280-494886/7	05140007.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Picric acid	Ave	68021	5683 118579	9462 174504	23170 +++++	48614	0.400	0.0250 0.700	0.0500 1.00	0.100 +++++	0.250
HMX	Lin2	74484	10018 125697	12646 183992	24294 439592	54065	0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250
RDX	Ave	88545	6286 152096	15119 219481	27233 550253	62626	0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250
Nitrobenzene	Ave	166107	10325 295388	28424 436359	42679 1054344	106064	0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
1,3-Dinitrobenzene	Ave	258559	16280 463638	37161 669330	69012 1631331	172289	0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
Nitroglycerin	Ave	509915	26546 852305	64042 1284256	141489 3221406	330378	4.00	0.250 7.00	0.500 10.0	1.00 25.0	2.50
2-Nitrotoluene	Ave	105493	6812 181444	16003 261684	29062 658375	63146	0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250
4-Nitrotoluene	Ave	93773	5374 165213	15492 231517	25956 515391	59605	0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
4-Amino-2,6-dinitrotoluene	Ave	130436	9369 223840	22118 321819	32448 846716	79168	0.400	0.0250 0.701	0.0501 1.00	0.100 2.50	0.250
3-Nitrotoluene	Ave	115331	6920 200617	19280 280653	30586 701292	71162	0.400	0.0250 0.701	0.0501 1.00	0.100 2.50	0.250
2-Amino-4,6-dinitrotoluene	Ave	179358	10376 319742	28982 455872	47526 1135384	112860	0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
1,3,5-Trinitrobenzene	Ave	178692	10822 323482	26649 467399	51028 1149858	118709	0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
2,6-Dinitrotoluene	Lin2	+++++ 118093	11618 206984	19107 298461	34659 736990	74317	+++++ 0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
2,4-Dinitrotoluene	Ave	7990 245009	16811 425741	37302 608421	67500 1523108	153249	0.0126 0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251

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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 494886

SDG No.:

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 16:16 Calibration End Date: 05/14/2020 20:56 Calibration ID: 44234

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Tetryl	Ave	139850	9874 245833	20202 350816	38547 875686	92236	0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
2,4,6-Trinitrotoluene	Lin1	158091	11547 282035	28366 408271	43208 1019741	100168	0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
PETN	Lin1	557734	+++++ 957879	102120 1365764	132172 3202028	338241	4.00	+++++ 7.00	0.500 10.0	1.00 25.0	2.50
1,2-Dinitrobenzene	Lin1	107232	8436 184773	18744 274673	30683 720867	62375	0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc
Lin2 = Linear 1/conc^2

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140007.D
Lims ID: IC FULL 9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 14-May-2020 16:16:43 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC FULL 9
Misc. Info.: 280-0091518-007
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:00:54 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 14-May-2020 17:09:51

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.302	4.366	-0.064	946682	2.50	2.21	M
2 2,4-diamino-6-nitrotoluene	1	4.769	4.880	-0.111	410736	2.50	1.70	M
5 2,4,6-Trinitrophenol	1	6.096	6.300	-0.204	359637	2.50	1.86	
6 HMX	1	6.916	6.986	-0.070	439592	2.50	2.45	
8 RDX	1	9.076	9.173	-0.097	550253	2.50	2.25	
9 Nitrobenzene	1	11.995	12.106	-0.111	1054344	2.51	2.40	
$ 10 1,2-Dinitrobenzene	1	12.949	13.040	-0.091	720867	2.50	2.59	
11 3,5-Dinitroaniline	1	14.795	14.886	-0.091	1218279	2.50	2.51	a
12 1,3-Dinitrobenzene	1	15.469	15.553	-0.084	1631331	2.51	2.42	
13 Nitroglycerin	2	15.782	15.853	-0.071	3221406	25.0	25.4	
14 o-Nitrotoluene	1	16.475	16.533	-0.058	658375	2.50	2.41	a
15 p-Nitrotoluene	1	16.715	16.820	-0.105	515391	2.51	2.14	a
16 4-Amino-2,6-dinitrotoluene	1	17.069	17.146	-0.077	846716	2.50	2.45	a
17 m-Nitrotoluene	1	17.782	17.753	0.029	701292	2.50	2.35	Ma
18 2-Amino-4,6-dinitrotoluene	1	17.935	18.046	-0.111	1135384	2.51	2.44	Ma
19 1,3,5-Trinitrobenzene	1	18.829	18.886	-0.057	1149858	2.51	2.43	a
20 2,6-Dinitrotoluene	1	19.742	19.806	-0.064	736990	2.51	2.53	a
21 2,4-Dinitrotoluene	1	20.235	20.293	-0.058	1523108	2.51	2.38	a
22 Tetryl	1	23.516	23.553	-0.037	875686	2.51	2.38	a
23 2,4,6-Trinitrotoluene	1	24.616	24.653	-0.037	1019741	2.51	2.53	a
24 PETN	2	25.269	25.280	-0.011	3202028	25.0	24.6	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8330IntermStk_00064	Amount Added: 250.00	Units: uL
8330_ADDs_00026	Amount Added: 125.00	Units: uL

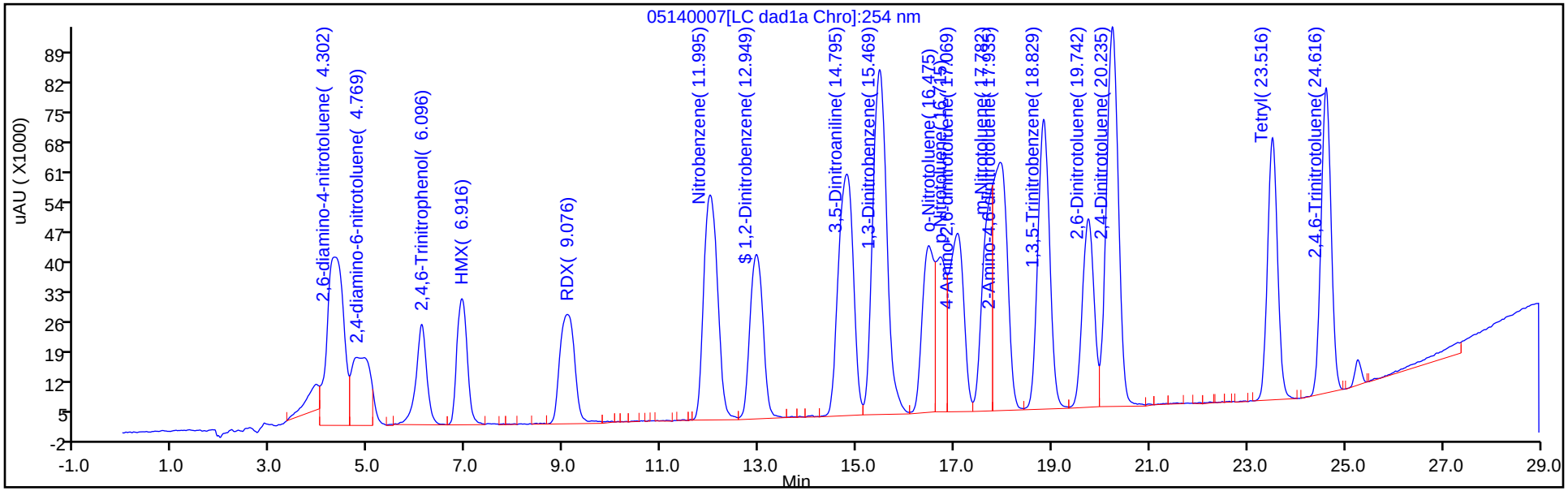
Report Date: 15-May-2020 12:00:54 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

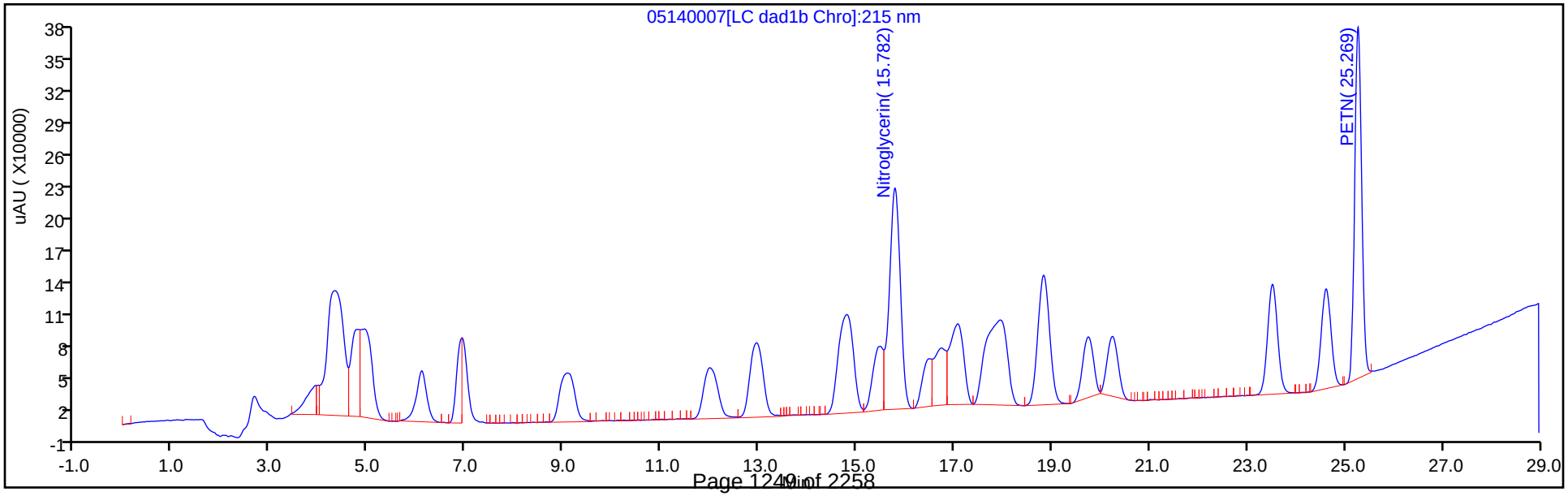
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d

Injection Date:	14-May-2020 16:16:43	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC FULL 9			Worklist Smp#:	7
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

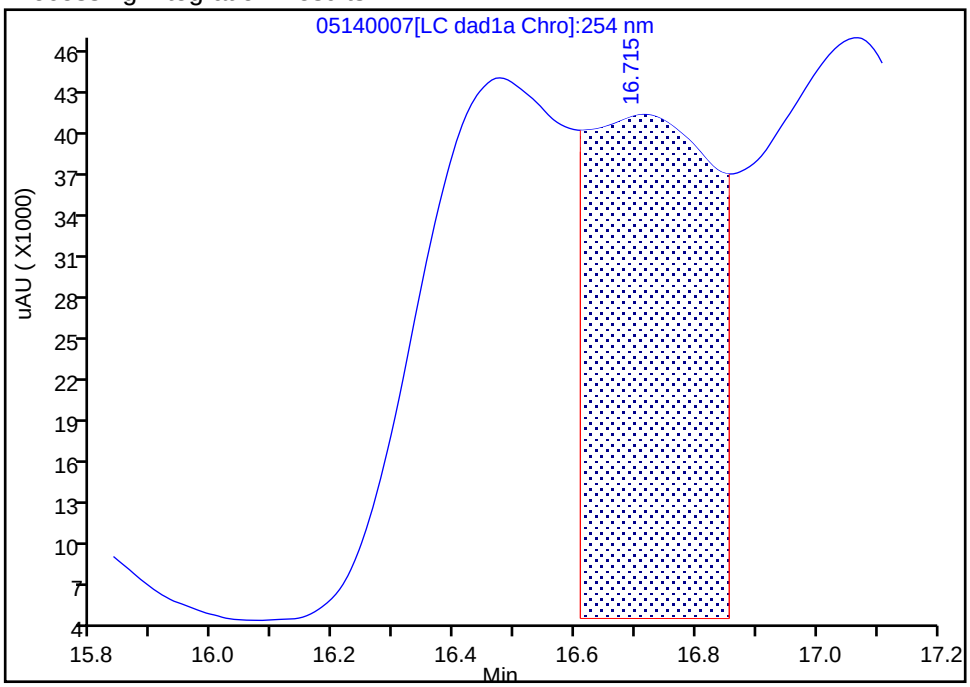
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d
Injection Date: 14-May-2020 16:16:43 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 9
Client ID:
Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

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

Signal: 1

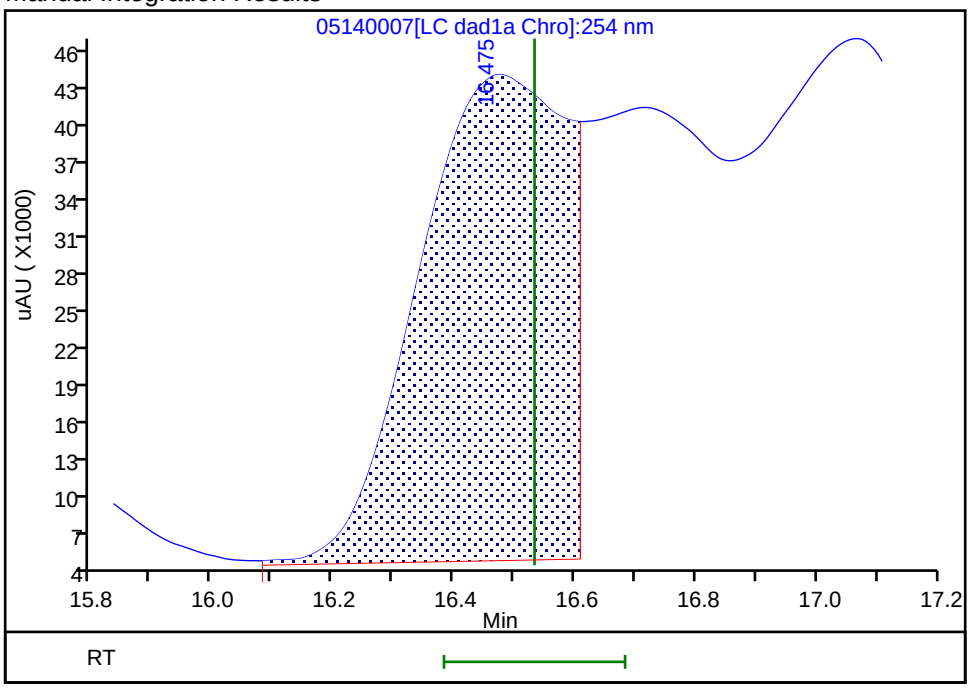
Processing Integration Results

RT: 16.72
Area: 515391
Amount: 1.955872
Amount Units: ug/ml



Manual Integration Results

RT: 16.48
Area: 658375
Amount: 2.411943
Amount Units: ug/ml



Reviewer: zhangji, 14-May-2020 17:09:15
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

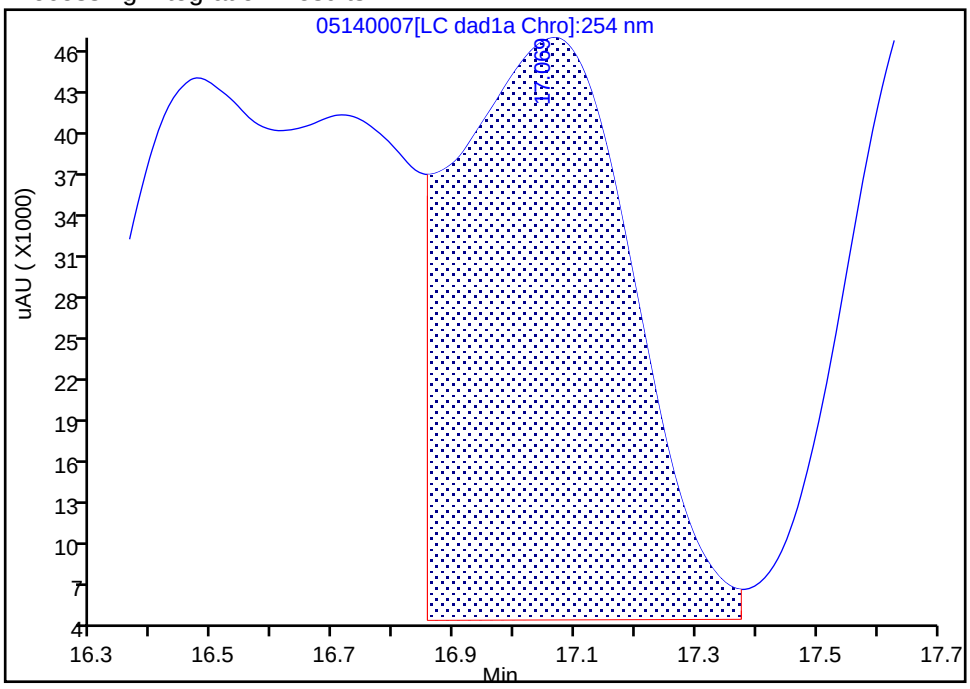
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d				
Injection Date:	14-May-2020 16:16:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

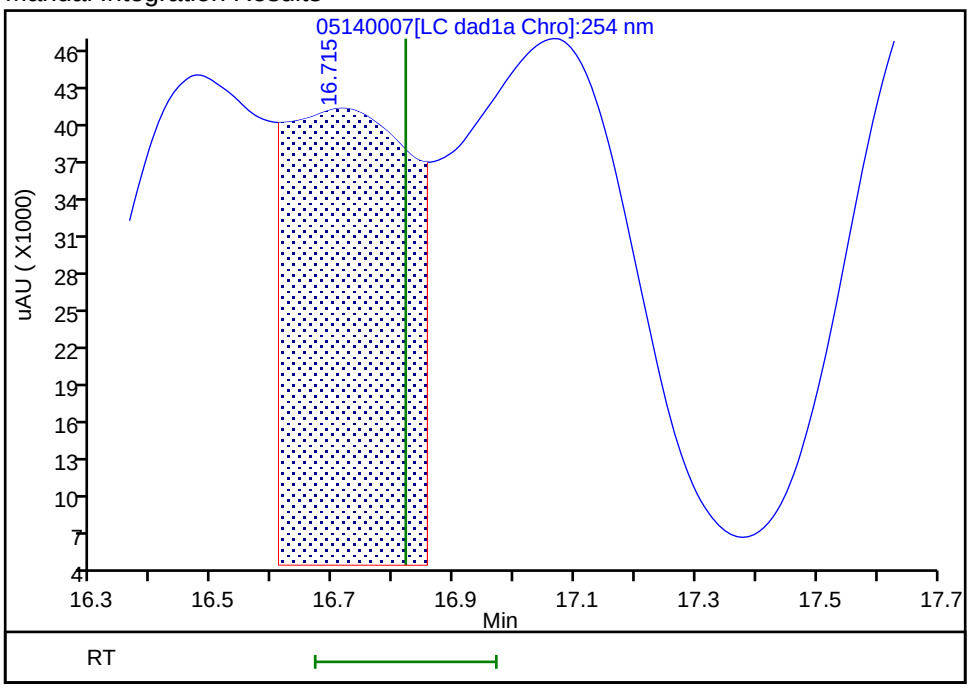
Processing Integration Results

RT: 17.07
Area: 846716
Amount: 4.099164
Amount Units: ug/ml



Manual Integration Results

RT: 16.72
Area: 515391
Amount: 2.139606
Amount Units: ug/ml



Reviewer: zhangji, 14-May-2020 17:09:12

Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

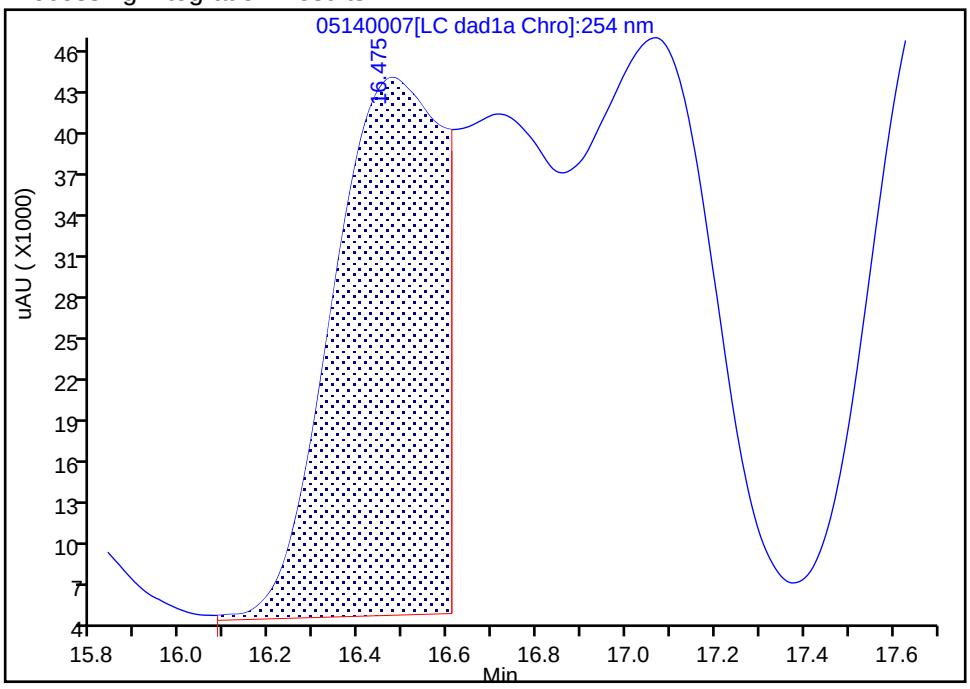
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d
Injection Date: 14-May-2020 16:16:43 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 9
Client ID:
Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

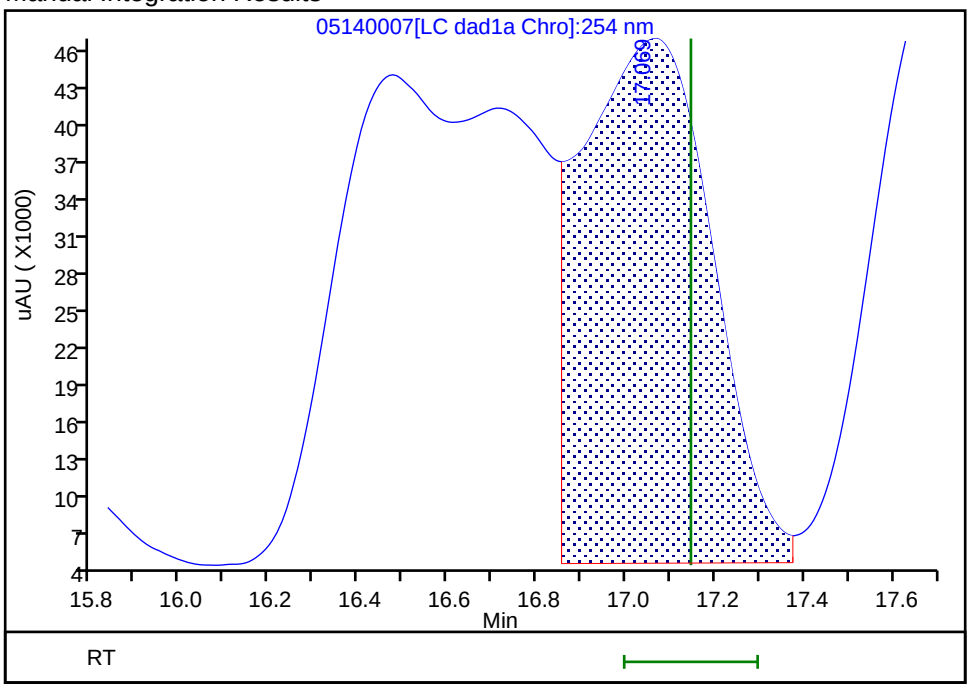
Processing Integration Results

RT: 16.48
Area: 658375
Amount: 2.145710
Amount Units: ug/ml



Manual Integration Results

RT: 17.07
Area: 846716
Amount: 2.452581
Amount Units: ug/ml



Reviewer: zhangji, 14-May-2020 17:08:59
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

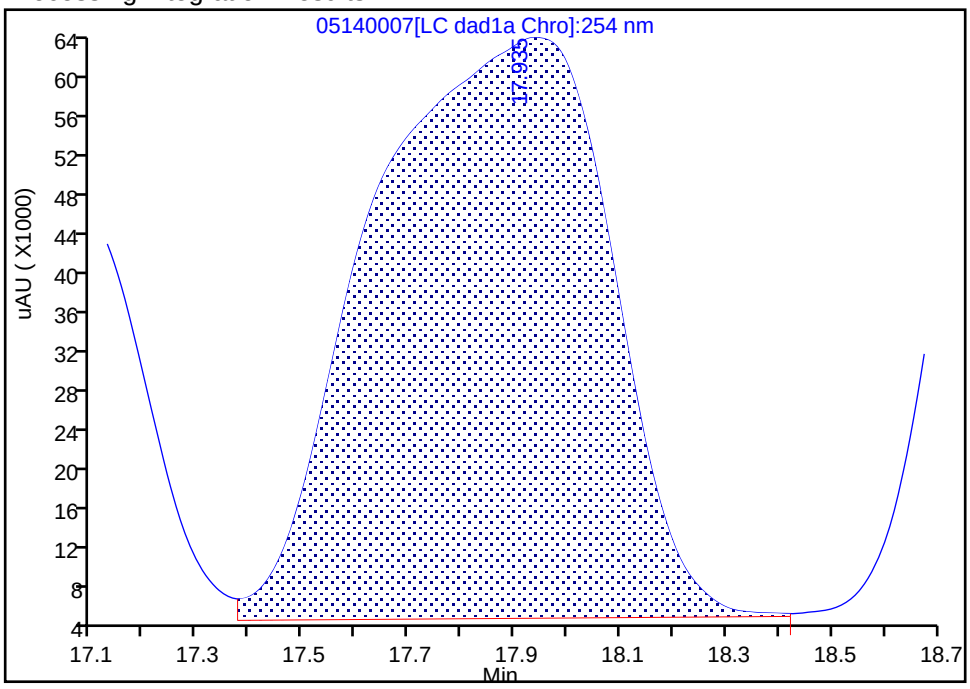
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d				
Injection Date:	14-May-2020 16:16:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

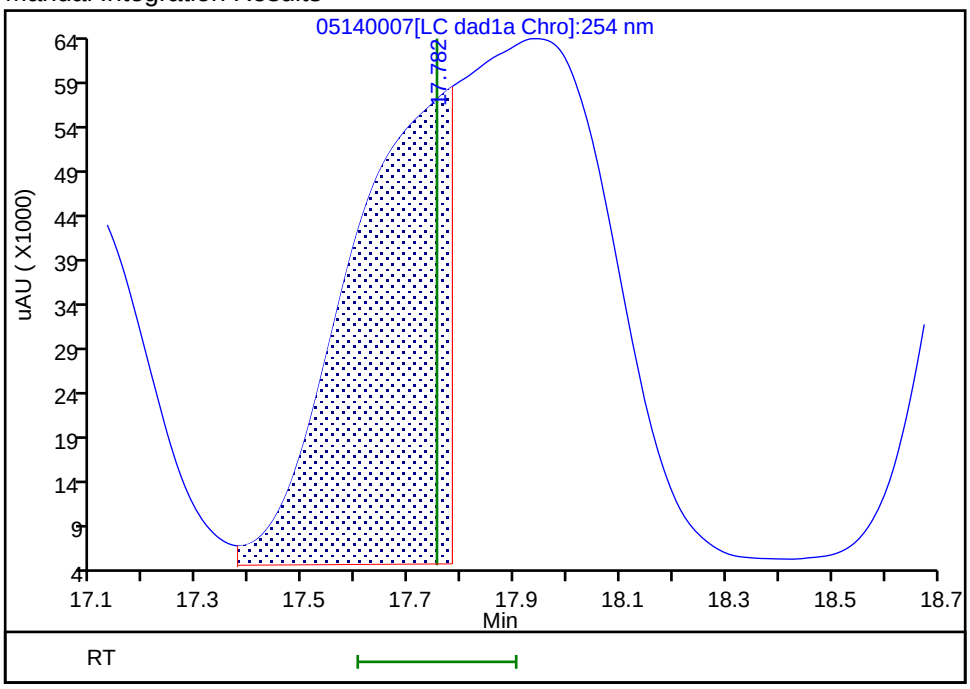
Processing Integration Results

RT: 17.94
Area: 1836650
Amount: 6.513789
Amount Units: ug/ml



Manual Integration Results

RT: 17.78
Area: 701292
Amount: 2.350751
Amount Units: ug/ml



Reviewer: zhangji, 14-May-2020 17:08:45

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

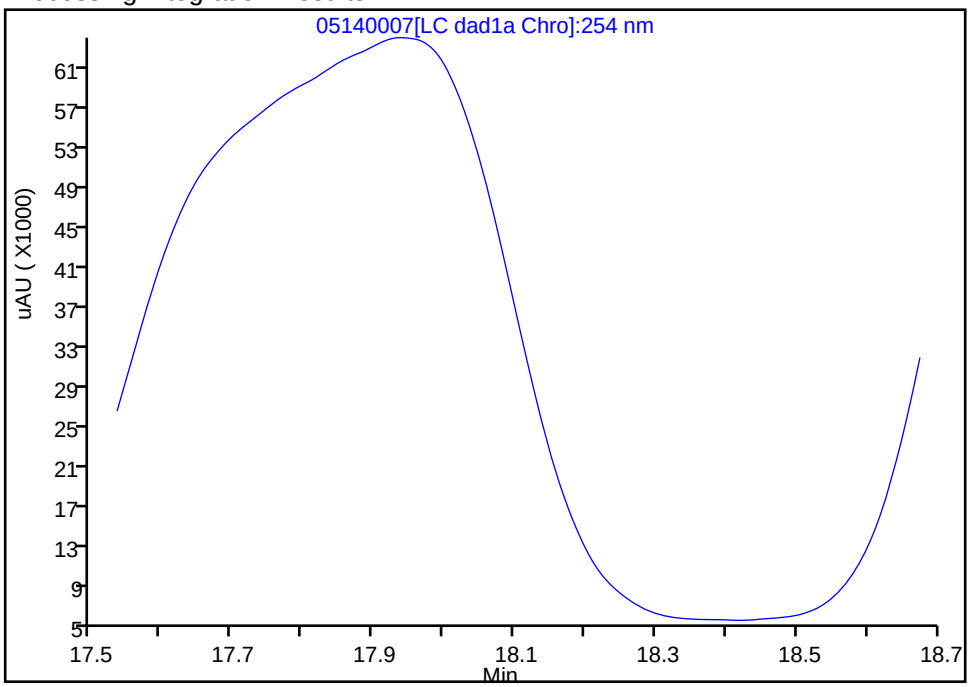
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d				
Injection Date:	14-May-2020 16:16:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

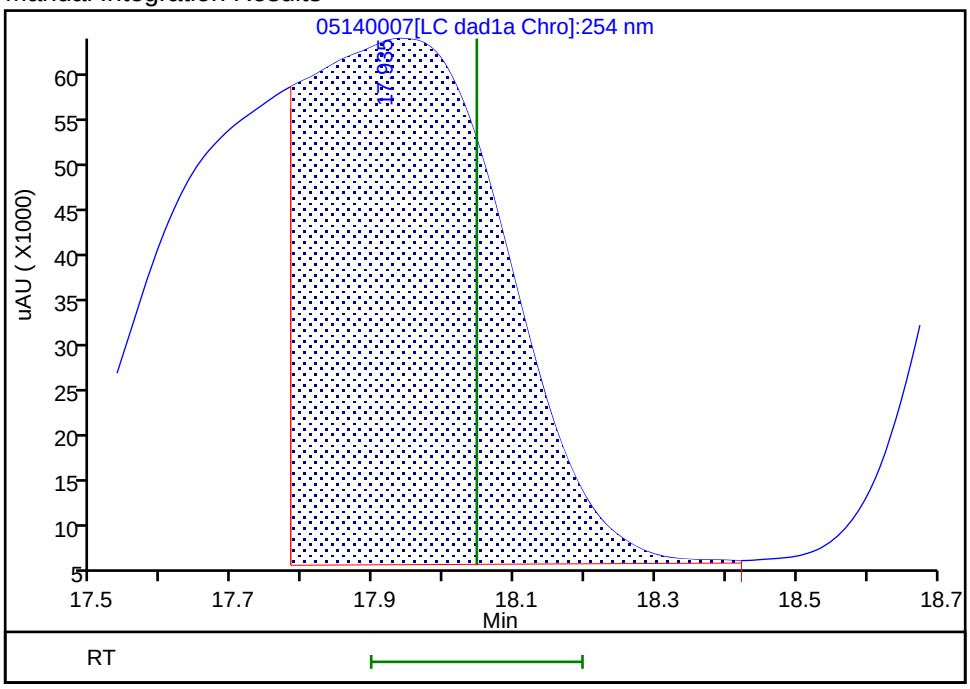
Not Detected
Expected RT: 18.05

Processing Integration Results



Manual Integration Results

RT: 17.94
Area: 1135384
Amount: 2.440578
Amount Units: ug/ml



Reviewer: zhangji, 14-May-2020 17:08:40
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

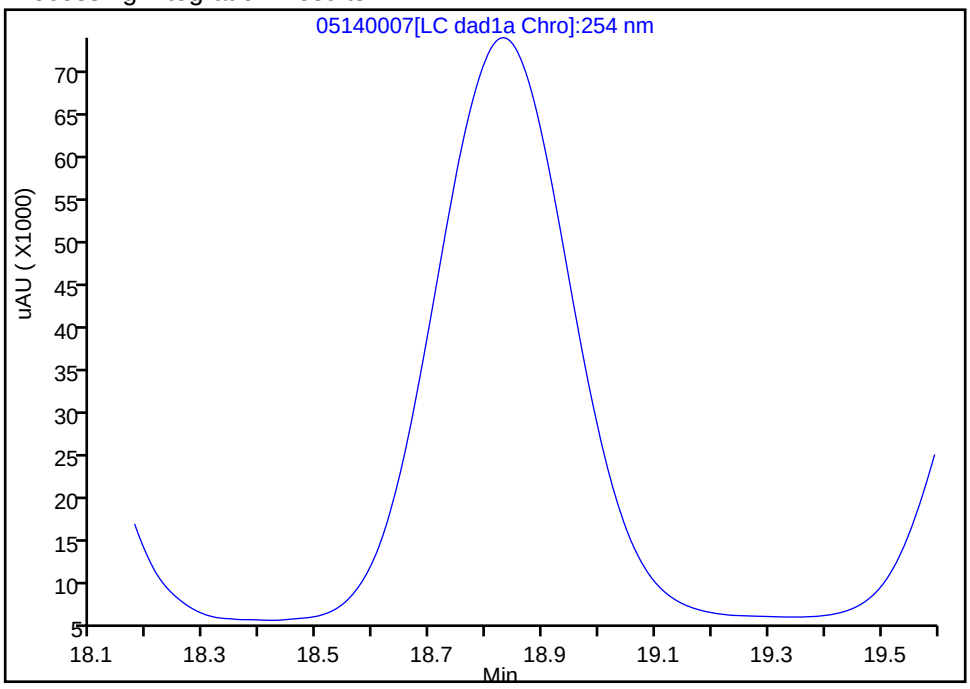
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d				
Injection Date:	14-May-2020 16:16:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

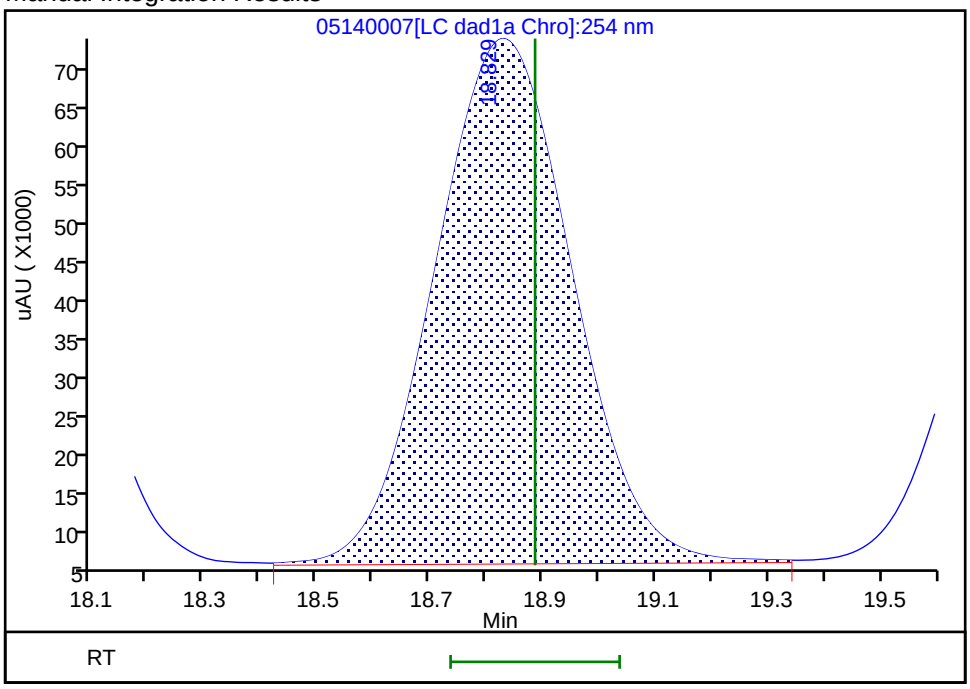
Not Detected
Expected RT: 18.89

Processing Integration Results



Manual Integration Results

RT: 18.83
Area: 1149858
Amount: 2.433816
Amount Units: ug/ml



Reviewer: zhangji, 14-May-2020 17:08:26
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

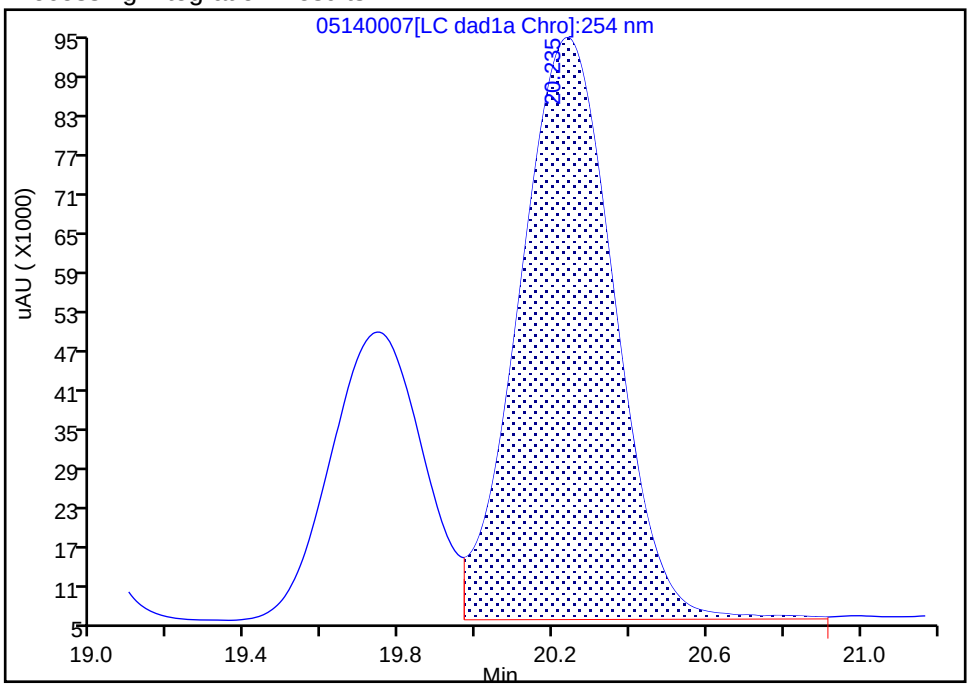
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d				
Injection Date:	14-May-2020 16:16:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

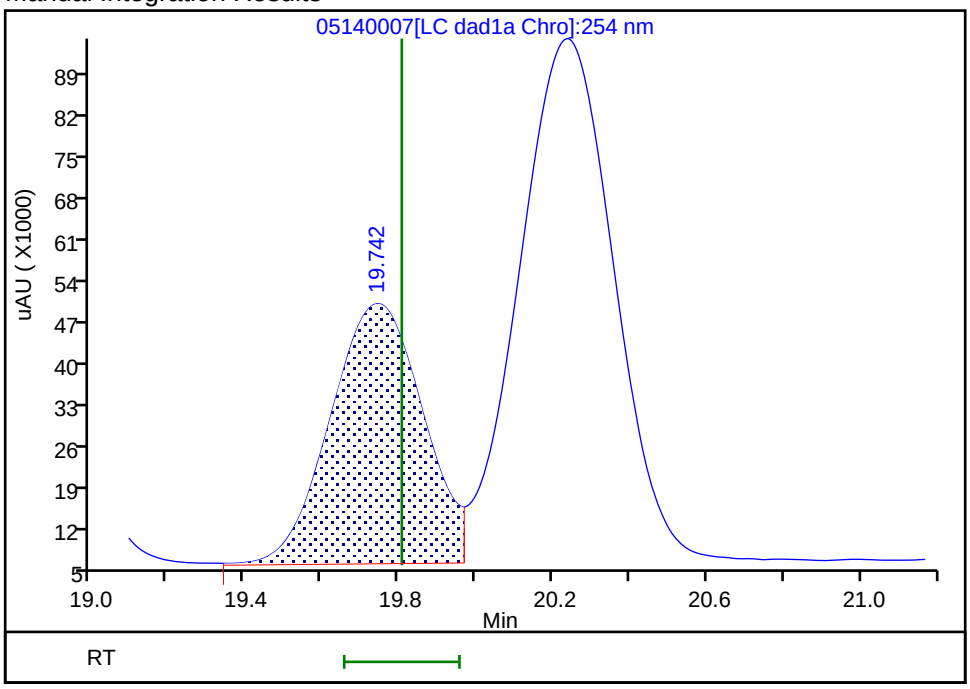
Processing Integration Results

RT: 20.24
Area: 1523108
Amount: 2.510000
Amount Units: ug/ml



Manual Integration Results

RT: 19.74
Area: 736990
Amount: 2.532876
Amount Units: ug/ml



Reviewer: zhangji, 14-May-2020 17:08:23
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

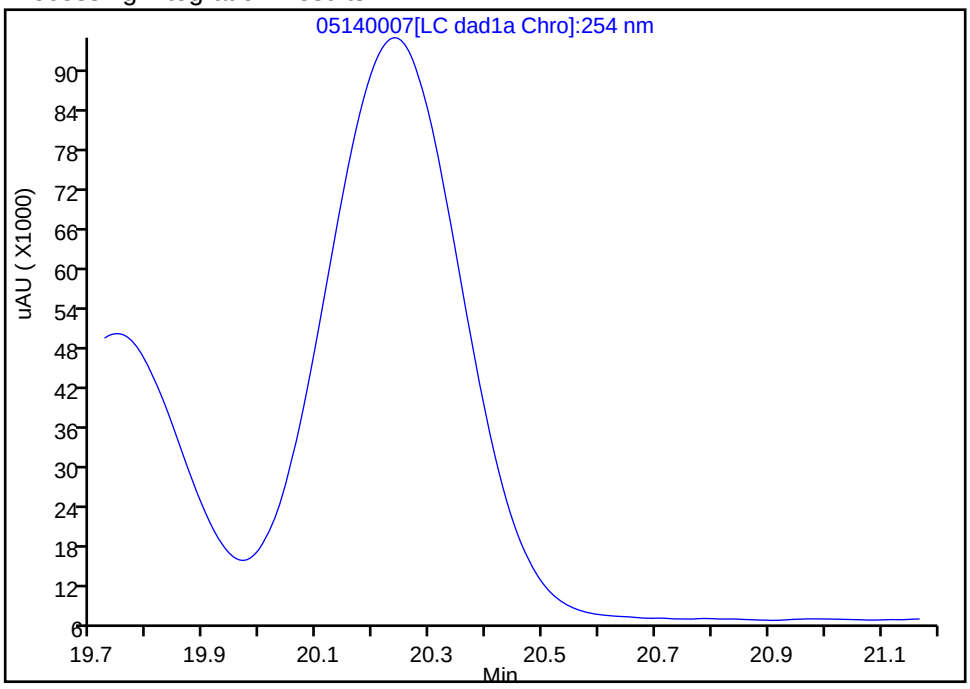
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d				
Injection Date:	14-May-2020 16:16:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

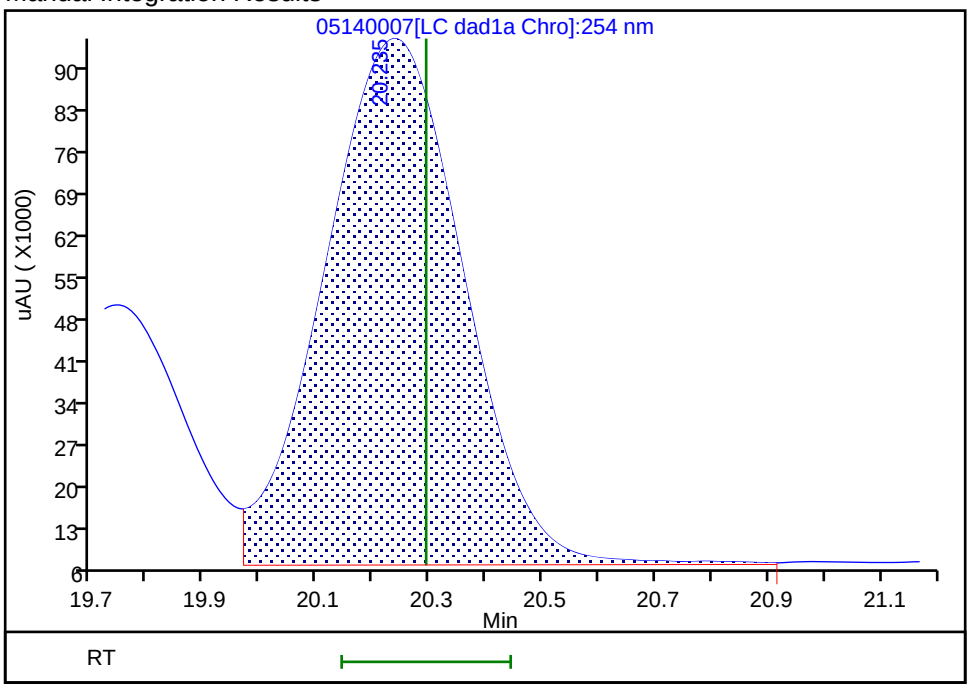
Not Detected
Expected RT: 20.29

Processing Integration Results



Manual Integration Results

RT: 20.24
Area: 1523108
Amount: 2.379435
Amount Units: ug/ml



Reviewer: zhangji, 14-May-2020 17:08:20
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

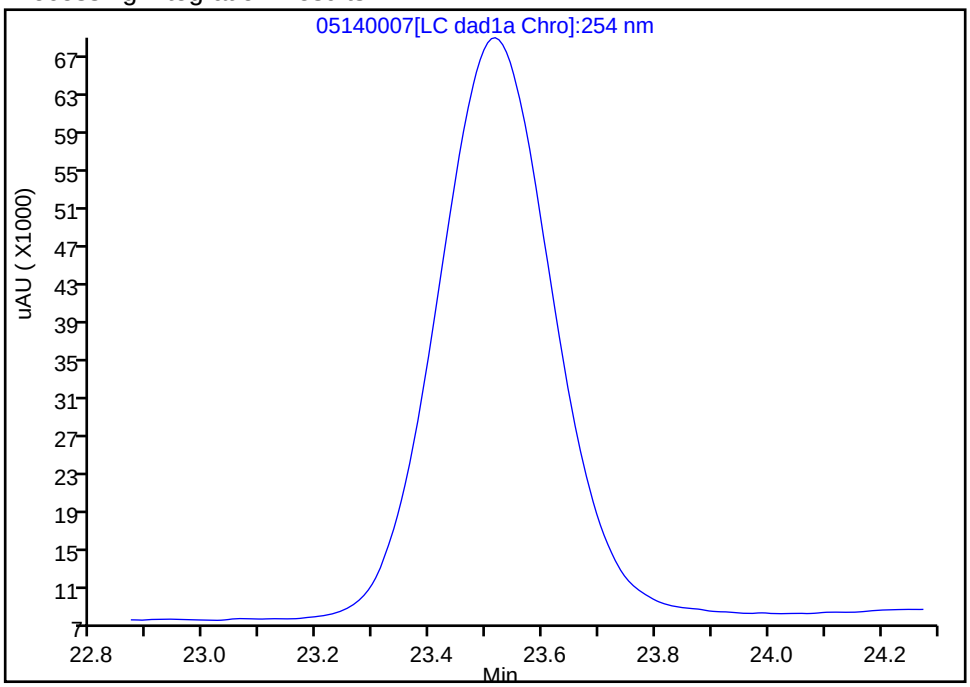
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d				
Injection Date:	14-May-2020 16:16:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

22 Tetryl, CAS: 479-45-8

Signal: 1

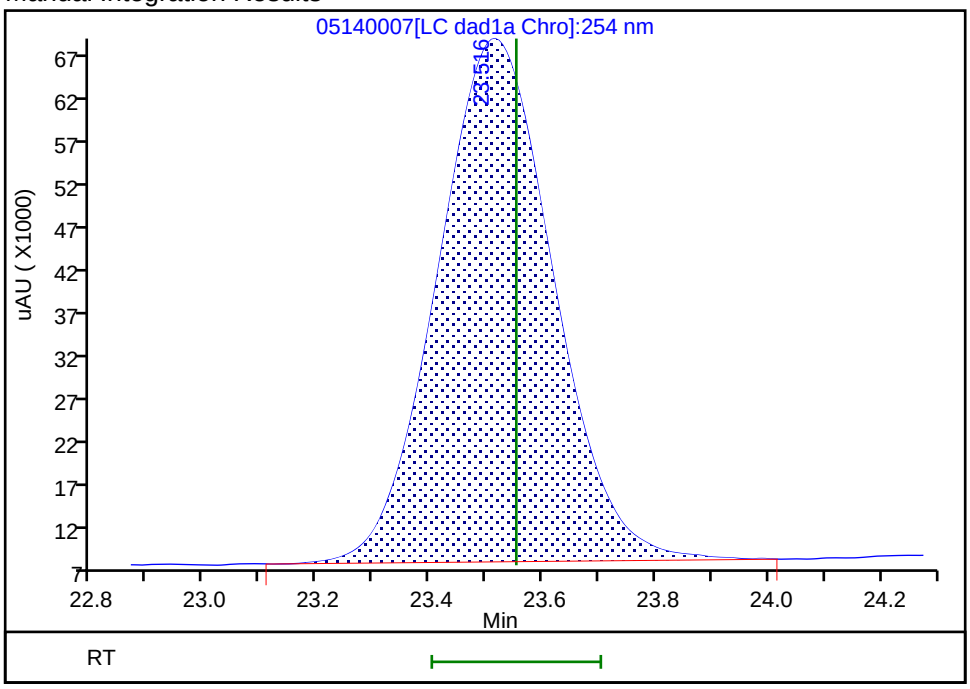
Not Detected
Expected RT: 23.55

Processing Integration Results



Manual Integration Results

RT: 23.52
Area: 875686
Amount: 2.375208
Amount Units: ug/ml



Reviewer: zhangji, 14-May-2020 17:08:11
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

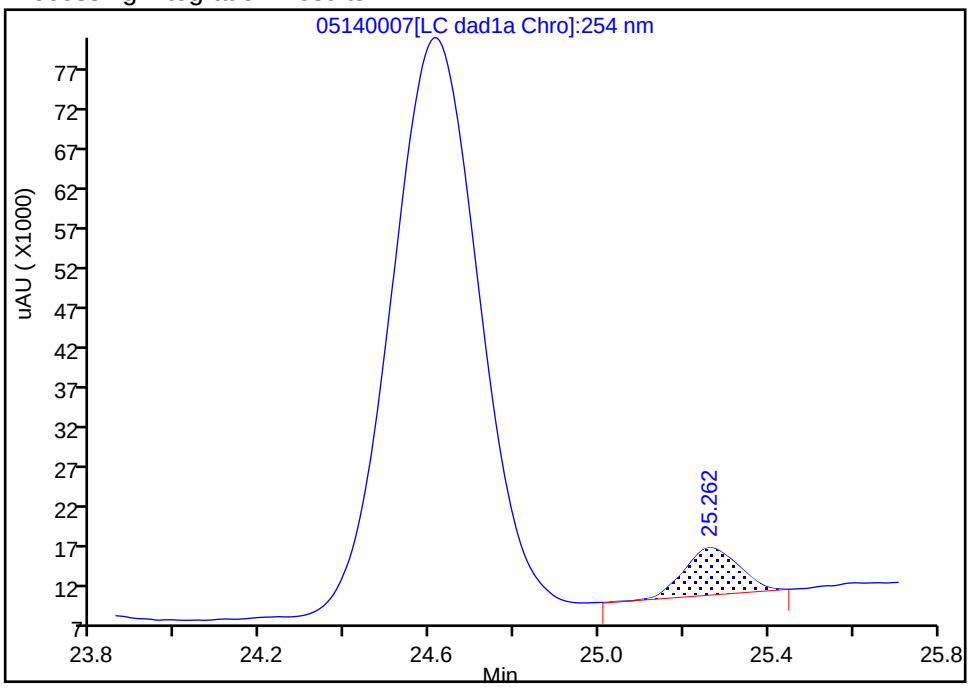
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140007.d				
Injection Date:	14-May-2020 16:16:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

23 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

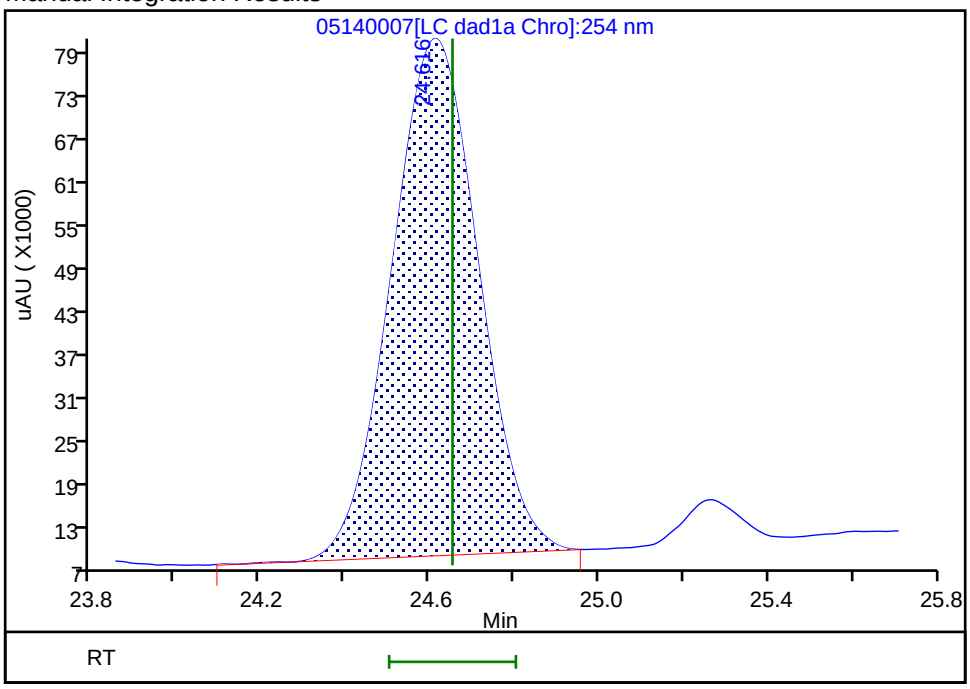
Processing Integration Results

RT: 25.26
Area: 53117
Amount: 0.098897
Amount Units: ug/ml



Manual Integration Results

RT: 24.62
Area: 1019741
Amount: 2.531269
Amount Units: ug/ml



Reviewer: zhangji, 14-May-2020 17:08:08
Audit Action: Assigned Compound ID Audit Reason:

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140008.D
Lims ID: IC FULL 8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 14-May-2020 16:51:43 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC FULL 8
Misc. Info.: 280-0091518-008
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:00:55 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 15-May-2020 11:19:25

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.315	4.366	-0.051	424864	1.00	0.9896	M
2 2,4-diamino-6-nitrotoluene	1	4.908	4.880	0.028	226554	1.00	0.9296	M
5 2,4,6-Trinitrophenol	1	6.195	6.300	-0.105	174504	1.00	0.9004	
6 HMX	1	6.968	6.986	-0.018	183992	1.00	1.01	
8 RDX	1	9.148	9.173	-0.025	219481	1.00	0.8982	
9 Nitrobenzene	1	12.088	12.106	-0.018	436359	1.00	0.99	
$ 10 1,2-Dinitrobenzene	1	13.028	13.040	-0.012	274673	1.00	0.9842	M
11 3,5-Dinitroaniline	1	14.868	14.886	-0.018	495596	1.00	1.02	
12 1,3-Dinitrobenzene	1	15.541	15.553	-0.012	669330	1.00	0.99	
13 Nitroglycerin	2	15.848	15.853	-0.005	1284256	10.0	10.1	
14 o-Nitrotoluene	1	16.535	16.533	0.002	261684	1.00	0.9587	
15 p-Nitrotoluene	1	16.815	16.820	-0.005	231517	1.00	0.9611	
16 4-Amino-2,6-dinitrotoluene	1	17.141	17.146	-0.005	321819	1.00	0.9322	
17 m-Nitrotoluene	1	17.741	17.753	-0.012	280653	1.00	0.9408	
18 2-Amino-4,6-dinitrotoluene	1	18.028	18.046	-0.018	455872	1.00	0.9799	
19 1,3,5-Trinitrobenzene	1	18.881	18.886	-0.005	467399	1.00	0.9893	
20 2,6-Dinitrotoluene	1	19.801	19.806	-0.005	298461	1.00	1.02	
21 2,4-Dinitrotoluene	1	20.288	20.293	-0.005	608421	1.00	0.9505	
22 Tetryl	1	23.555	23.553	0.002	350816	1.00	0.9516	
23 2,4,6-Trinitrotoluene	1	24.648	24.653	-0.005	408271	1.00	1.01	
24 PETN	2	25.281	25.280	0.001	1365764	10.0	10.4	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00064	Amount Added: 100.00	Units: uL
8330_ADDs_00026	Amount Added: 50.00	Units: uL

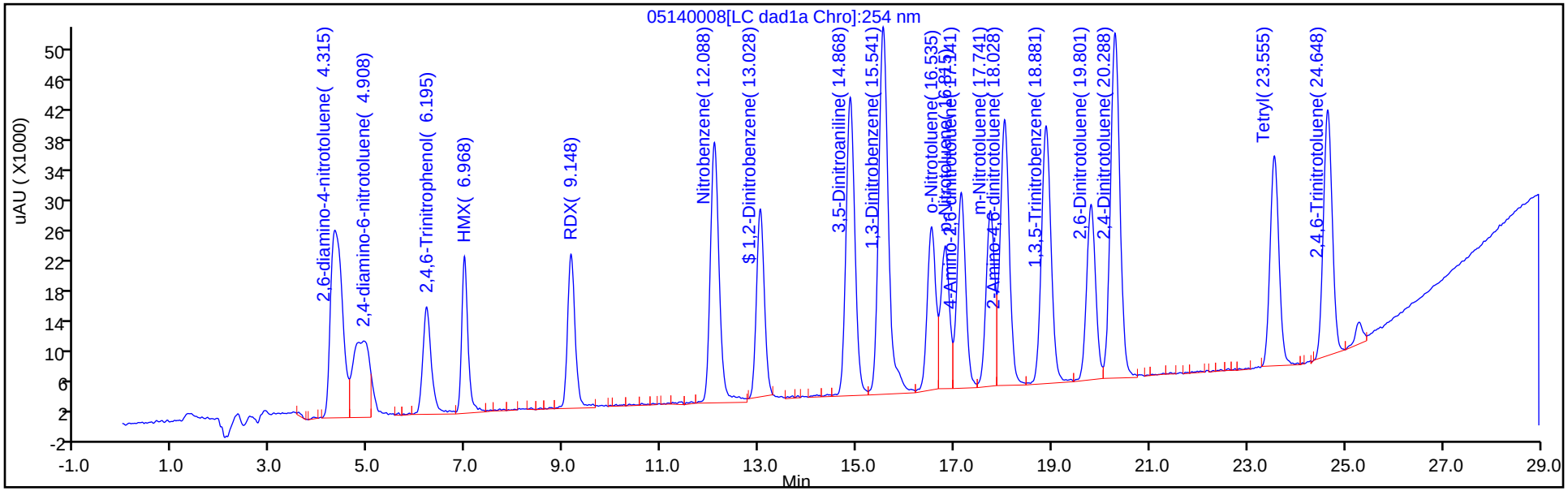
Report Date: 15-May-2020 12:00:55 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

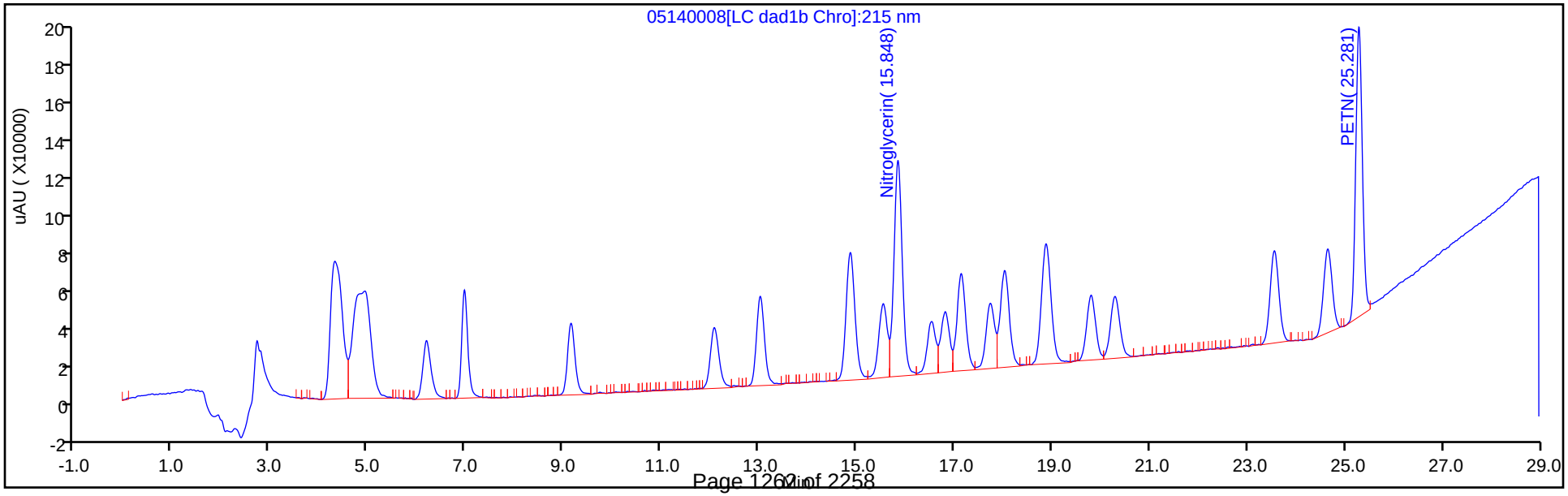
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140008.d

Injection Date:	14-May-2020 16:51:43	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC FULL 8			Worklist Smp#:	8
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

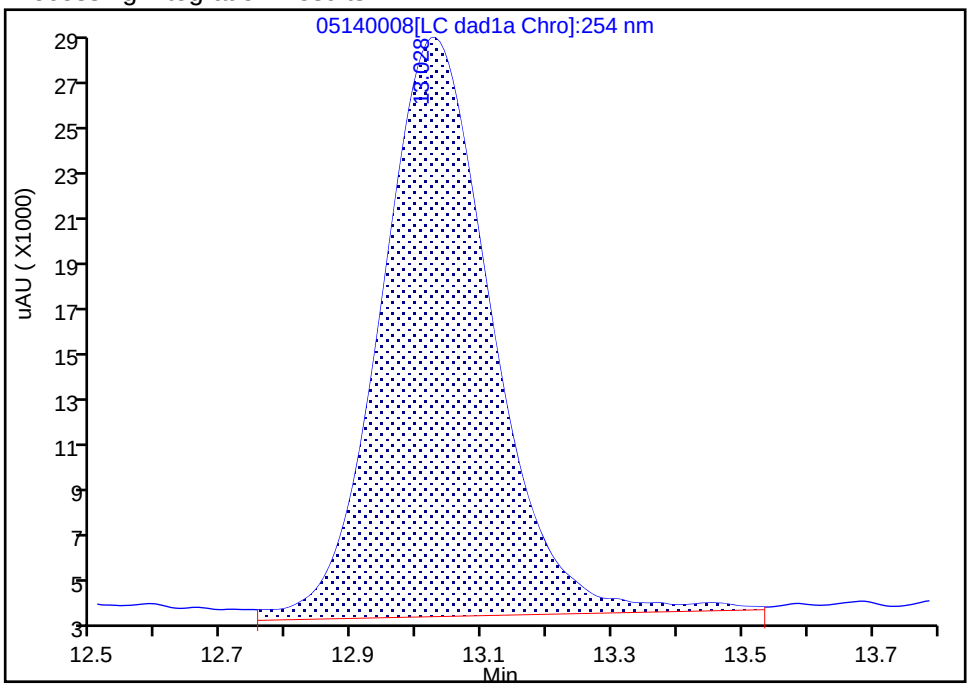
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140008.d				
Injection Date:	14-May-2020 16:51:43	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 8				
Client ID:					
Operator ID:	CB	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

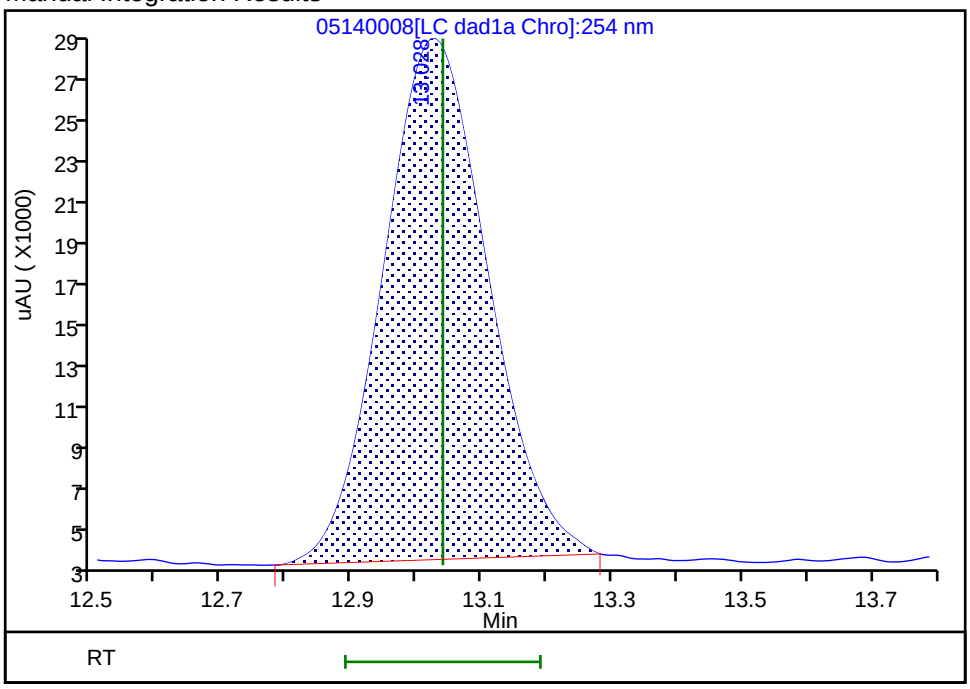
Processing Integration Results

RT: 13.03
Area: 297550
Amount: 0.923853
Amount Units: ug/ml



Manual Integration Results

RT: 13.03
Area: 274673
Amount: 0.984150
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:34:32

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140009.D
Lims ID: IC FULL 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 14-May-2020 17:26:40 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC FULL 7
Misc. Info.: 280-0091518-009
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:00:55 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 15-May-2020 11:20:09

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1	2,6-diamino-4-nitrotoluene	1	4.342	4.366	-0.024	272072	0.7000	0.6337	
2	2,4-diamino-6-nitrotoluene	1	4.915	4.880	0.035	176663	0.7000	0.7197	
5	2,4,6-Trinitrophenol	1	6.235	6.300	-0.065	118579	0.7000	0.6118	
6	HMX	1	6.982	6.986	-0.004	125697	0.7000	0.6800	
8	RDX	1	9.162	9.173	-0.011	152096	0.7000	0.6224	
9	Nitrobenzene	1	12.095	12.106	-0.011	295388	0.7028	0.6725	
$ 10	1,2-Dinitrobenzene	1	13.028	13.040	-0.012	184773	0.7000	0.6599	M
11	3,5-Dinitroaniline	1	14.875	14.886	-0.011	320559	0.7000	0.6552	
12	1,3-Dinitrobenzene	1	15.548	15.553	-0.005	463638	0.7014	0.6877	
13	Nitroglycerin	2	15.842	15.853	-0.011	852305	7.00	6.72	
14	o-Nitrotoluene	1	16.535	16.533	0.002	181444	0.7000	0.6647	
15	p-Nitrotoluene	1	16.808	16.820	-0.012	165213	0.7014	0.6859	
16	4-Amino-2,6-dinitrotoluene	1	17.142	17.146	-0.004	223840	0.7007	0.6484	
17	m-Nitrotoluene	1	17.742	17.753	-0.011	200617	0.7007	0.6725	
18	2-Amino-4,6-dinitrotoluene	1	18.035	18.046	-0.011	319742	0.7028	0.6873	
19	1,3,5-Trinitrobenzene	1	18.875	18.886	-0.011	323482	0.7014	0.6847	
20	2,6-Dinitrotoluene	1	19.795	19.806	-0.011	206984	0.7028	0.7003	
21	2,4-Dinitrotoluene	1	20.288	20.293	-0.005	425741	0.7028	0.6651	
22	Tetryl	1	23.542	23.553	-0.011	245833	0.7014	0.6668	
23	2,4,6-Trinitrotoluene	1	24.642	24.653	-0.011	282035	0.7028	0.6944	
24	PETN	2	25.275	25.280	-0.005	957879	7.00	7.20	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330_ADDs_00026	Amount Added:	35.00	Units: uL
8330IntermStk_00064	Amount Added:	70.00	Units: uL

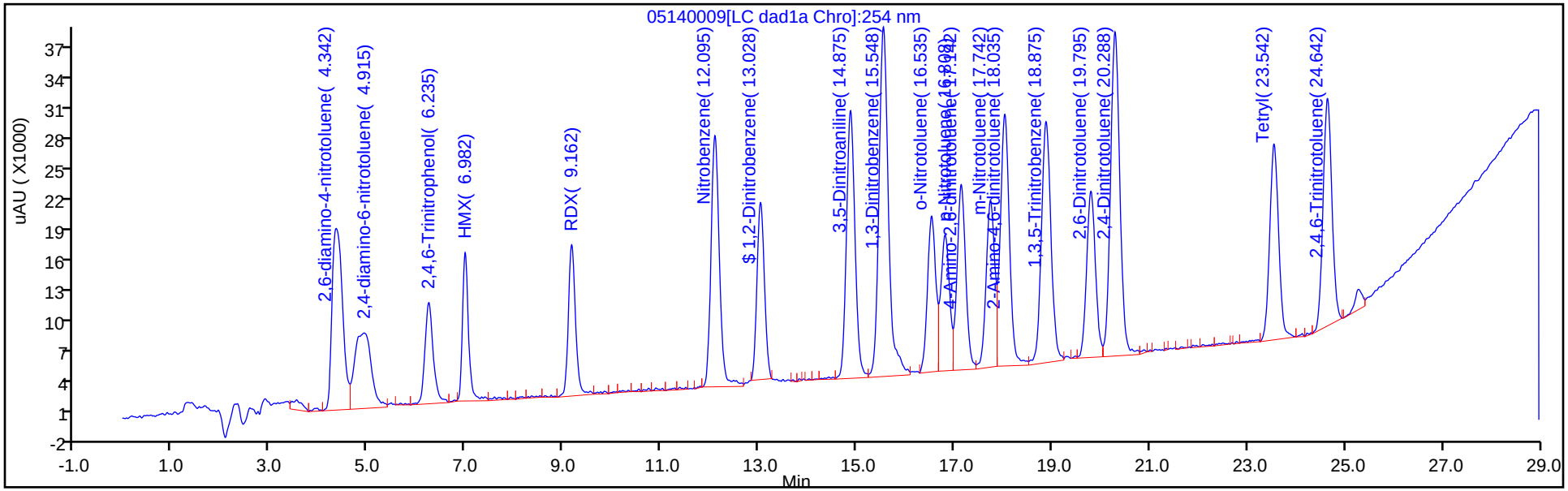
Report Date: 15-May-2020 12:00:55 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

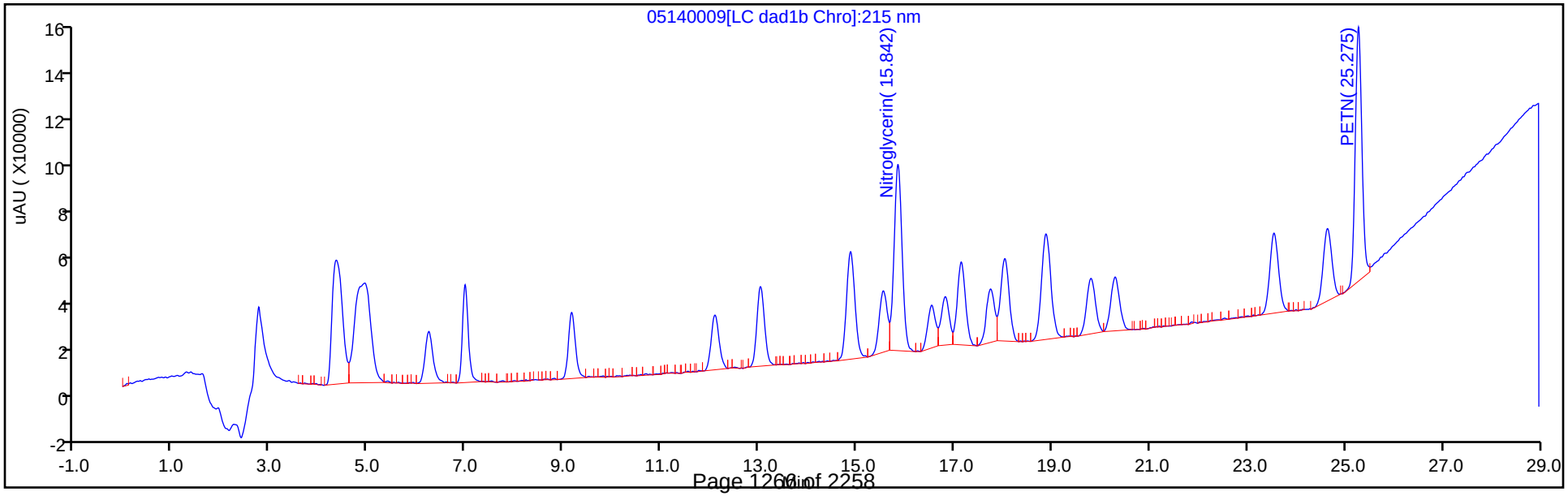
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140009.d

Injection Date:	14-May-2020 17:26:40	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC FULL 7			Worklist Smp#:	9
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

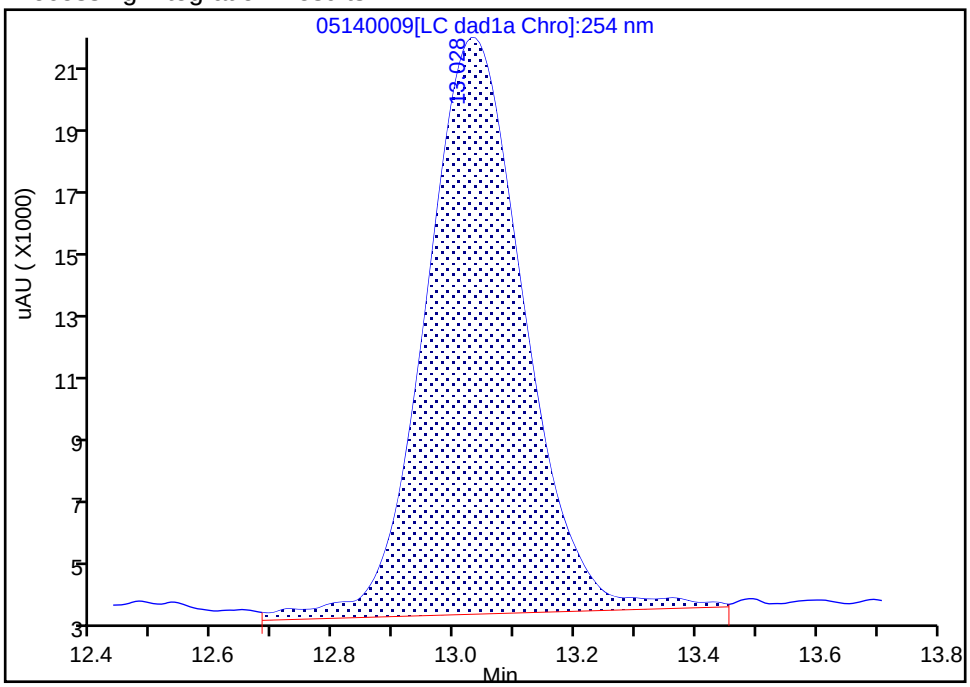
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140009.d				
Injection Date:	14-May-2020 17:26:40	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 7				
Client ID:					
Operator ID:	CB	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

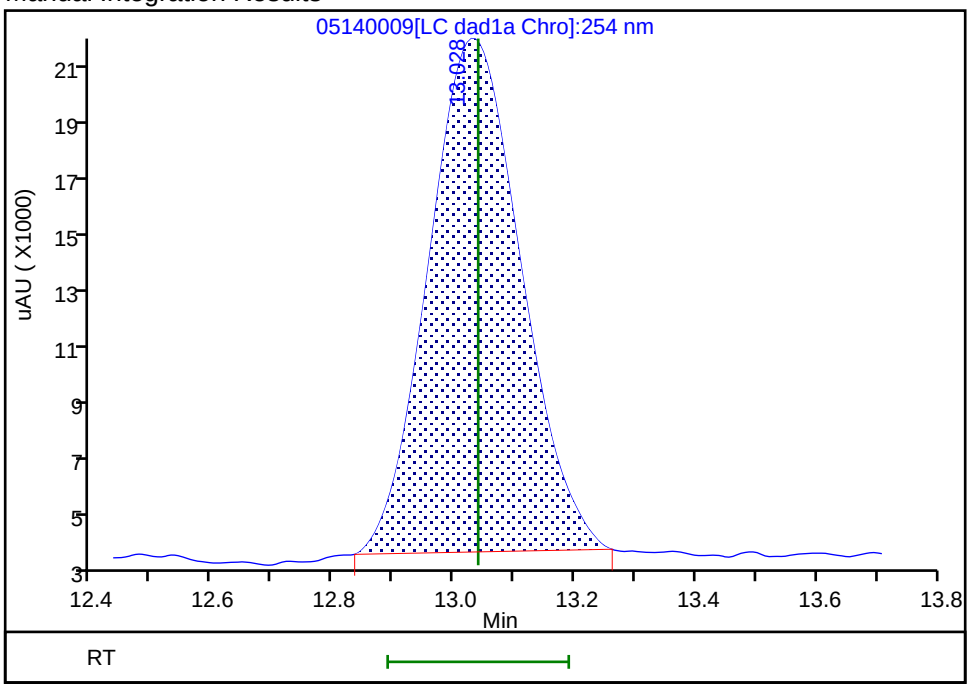
Processing Integration Results

RT: 13.03
Area: 203295
Amount: 0.637674
Amount Units: ug/ml



Manual Integration Results

RT: 13.03
Area: 184773
Amount: 0.659868
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:34:40

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140010.D
Lims ID: IC FULL 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 14-May-2020 18:01:41 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC FULL 6
Misc. Info.: 280-0091518-010
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:00:56 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 15-May-2020 11:52:49

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1	2,6-diamino-4-nitrotoluene	1	4.347	4.366	-0.019	161291	0.4000	0.3757	M
2	2,4-diamino-6-nitrotoluene	1	4.940	4.880	0.060	100170	0.4000	0.3980	M
5	2,4,6-Trinitrophenol	1	6.267	6.300	-0.033	68021	0.4000	0.3510	a
6	HMX	1	6.987	6.986	0.001	74484	0.4000	0.3907	
8	RDX	1	9.173	9.173	0.000	88545	0.4000	0.3624	
9	Nitrobenzene	1	12.107	12.106	0.001	166107	0.4016	0.3782	
$ 10	1,2-Dinitrobenzene	1	13.040	13.040	0.000	107232	0.4000	0.3802	M
11	3,5-Dinitroaniline	1	14.887	14.886	0.001	190015	0.4000	0.3861	M
12	1,3-Dinitrobenzene	1	15.553	15.553	0.000	258559	0.4008	0.3835	M
13	Nitroglycerin	2	15.853	15.853	0.000	509915	4.00	4.02	
14	o-Nitrotoluene	1	16.540	16.533	0.007	105493	0.4000	0.3865	M
15	p-Nitrotoluene	1	16.820	16.820	0.000	93773	0.4008	0.3893	M
16	4-Amino-2,6-dinitrotoluene	1	17.153	17.146	0.007	130436	0.4004	0.3778	M
17	m-Nitrotoluene	1	17.747	17.753	-0.006	115331	0.4004	0.3866	M
18	2-Amino-4,6-dinitrotoluene	1	18.040	18.046	-0.006	179358	0.4016	0.3855	M
19	1,3,5-Trinitrobenzene	1	18.887	18.886	0.001	178692	0.4008	0.3782	
20	2,6-Dinitrotoluene	1	19.807	19.806	0.001	118093	0.4016	0.3930	M
21	2,4-Dinitrotoluene	1	20.293	20.293	0.000	245009	0.4016	0.3828	M
22	Tetryl	1	23.553	23.553	0.000	139850	0.4008	0.3793	
23	2,4,6-Trinitrotoluene	1	24.647	24.653	-0.006	158091	0.4016	0.3858	
24	PETN	2	25.280	25.280	0.000	557734	4.00	4.10	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8330IntermStk_00064	Amount Added:	40.00	Units: uL
8330_ADDs_00026	Amount Added:	20.00	Units: uL

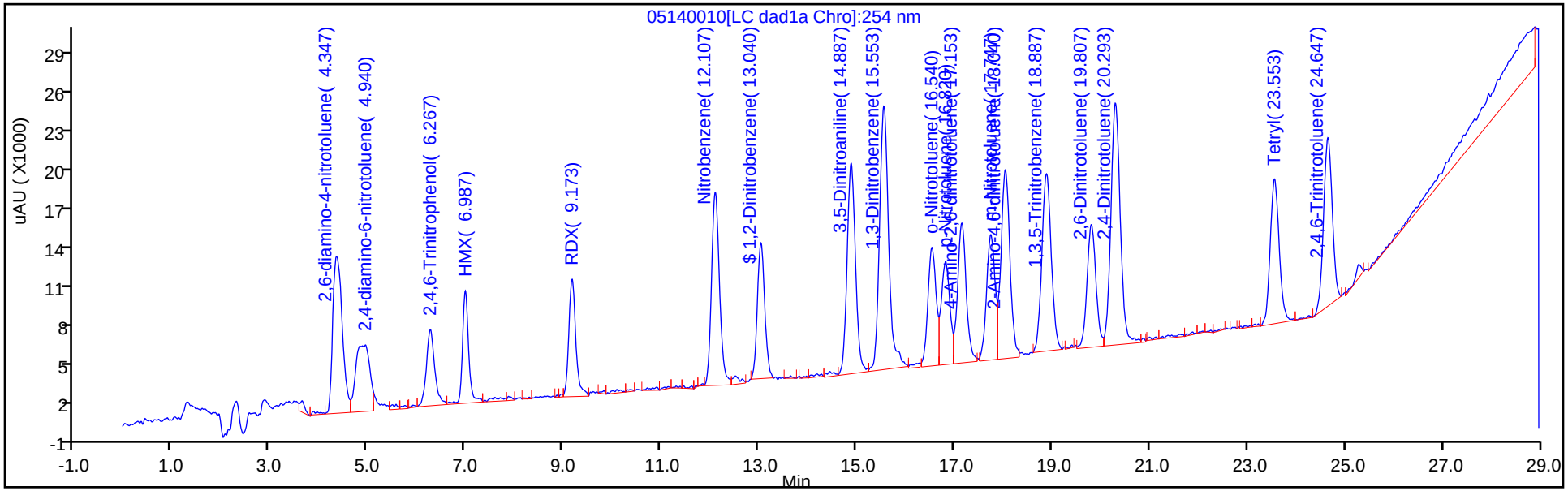
Report Date: 15-May-2020 12:00:56 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

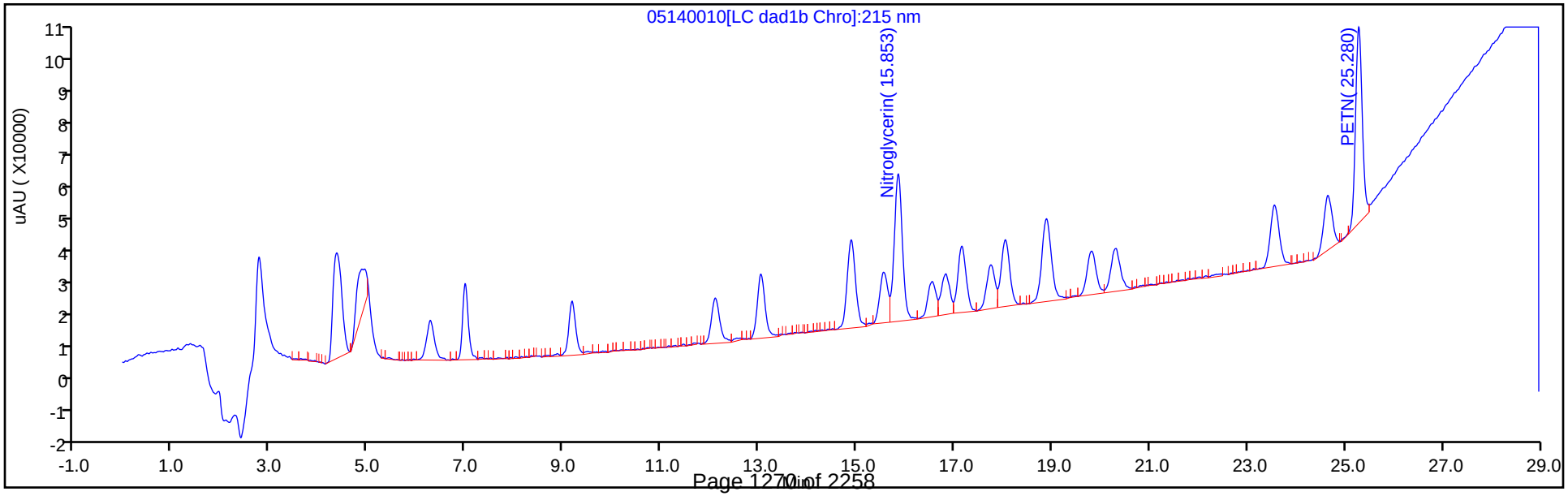
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d

Injection Date:	14-May-2020 18:01:41	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC FULL 6			Worklist Smp#:	10
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

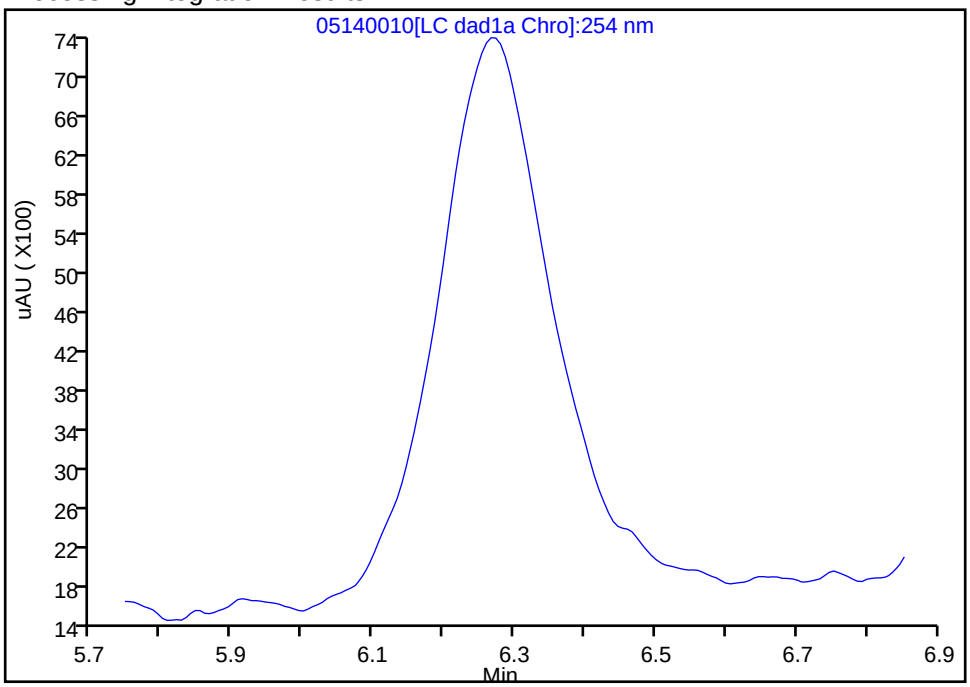
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d
Injection Date: 14-May-2020 18:01:41 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 6
Client ID:
Operator ID: CB ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

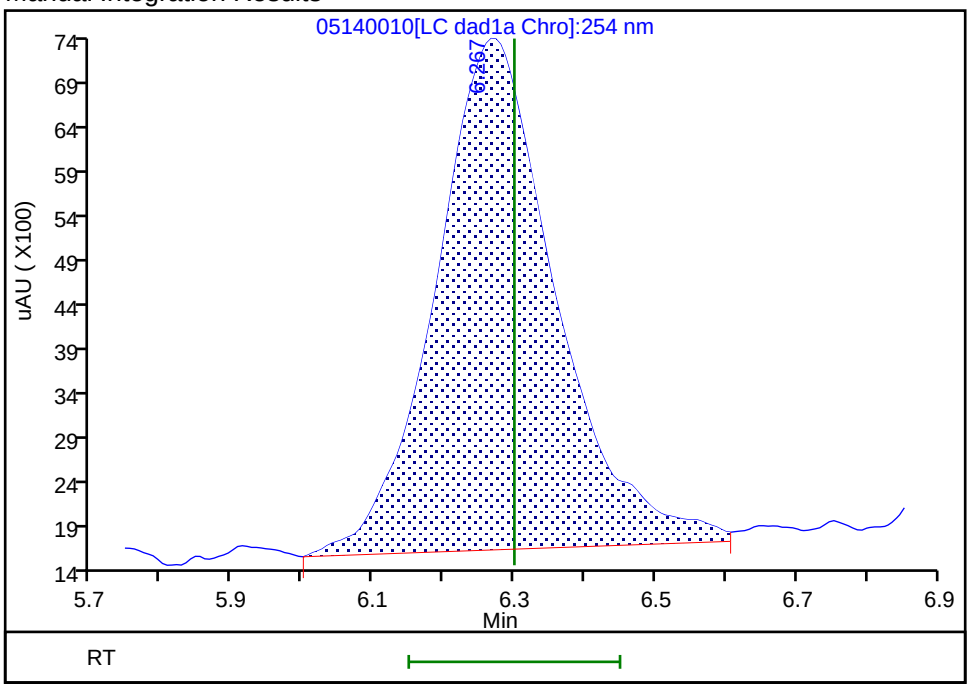
Not Detected
Expected RT: 6.30

Processing Integration Results



Manual Integration Results

RT: 6.27
Area: 68021
Amount: 0.350967
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:20:14
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

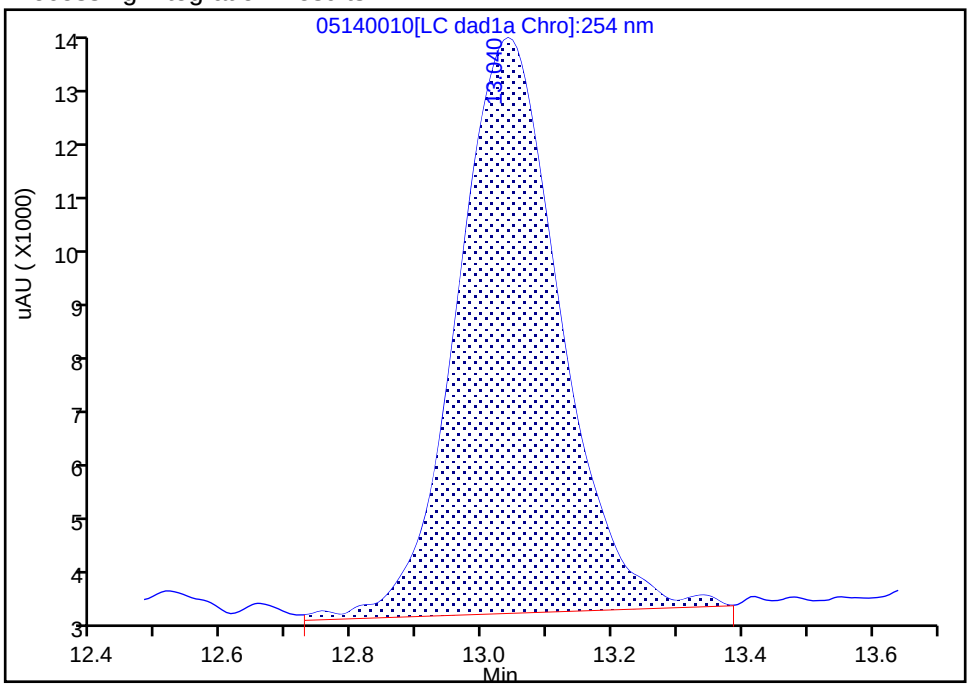
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d				
Injection Date:	14-May-2020 18:01:41	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

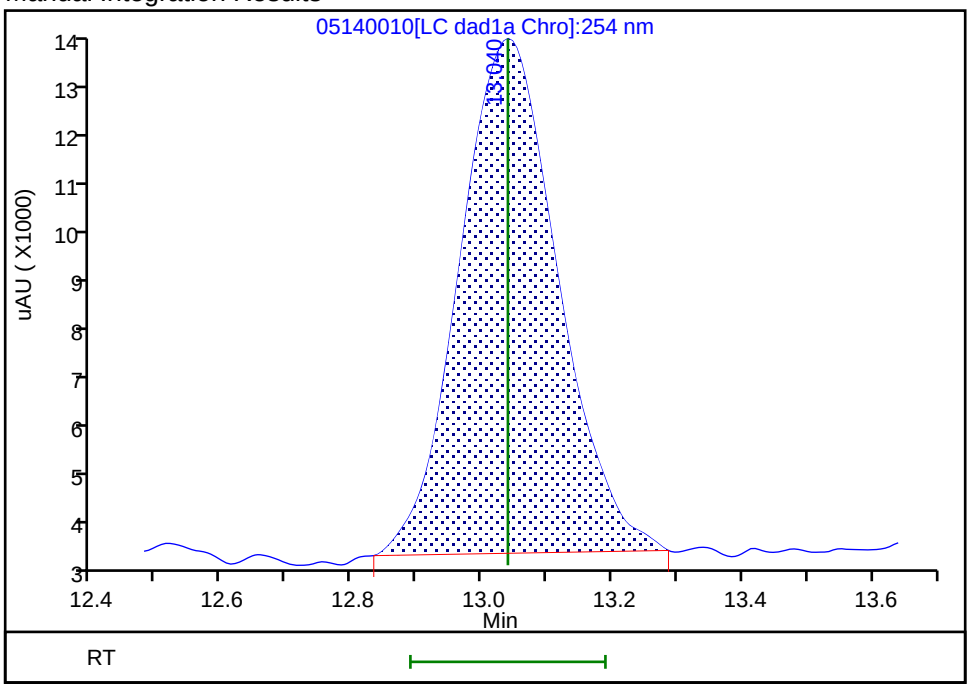
Processing Integration Results

RT: 13.04
Area: 114682
Amount: 0.364039
Amount Units: ug/ml



Manual Integration Results

RT: 13.04
Area: 107232
Amount: 0.380167
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:34:50

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

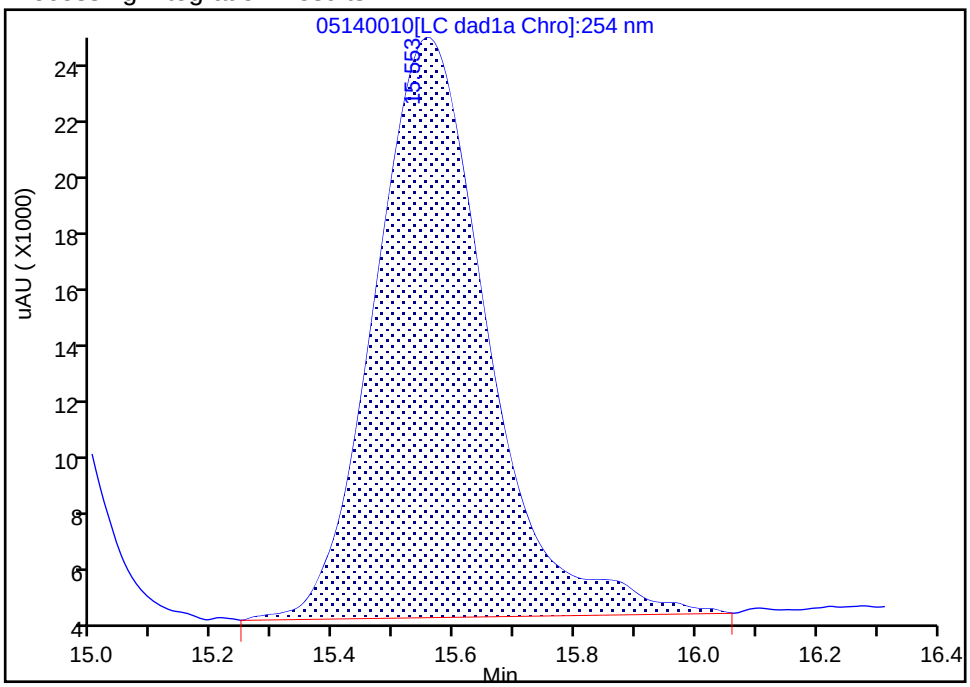
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d				
Injection Date:	14-May-2020 18:01:41	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

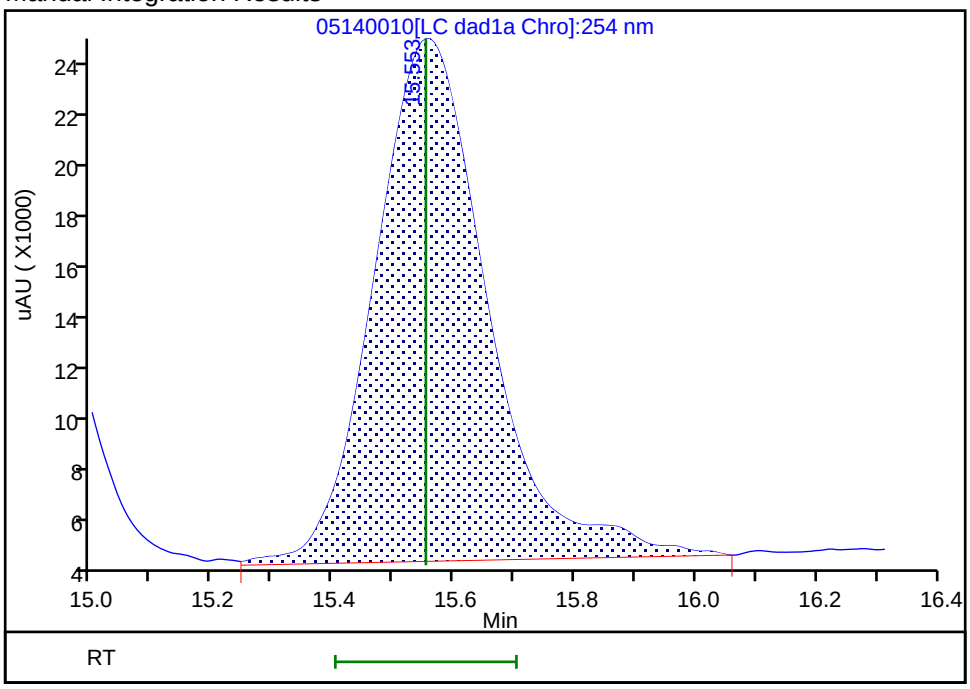
Processing Integration Results

RT: 15.55
Area: 255534
Amount: 0.374138
Amount Units: ug/ml



Manual Integration Results

RT: 15.55
Area: 258559
Amount: 0.383511
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:20:35

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

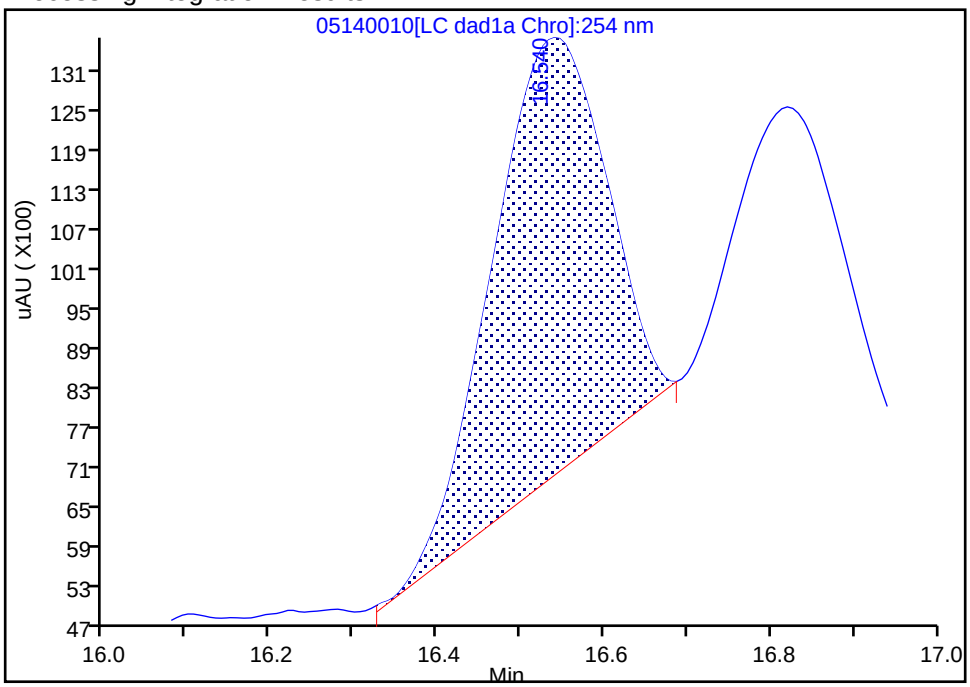
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d				
Injection Date:	14-May-2020 18:01:41	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

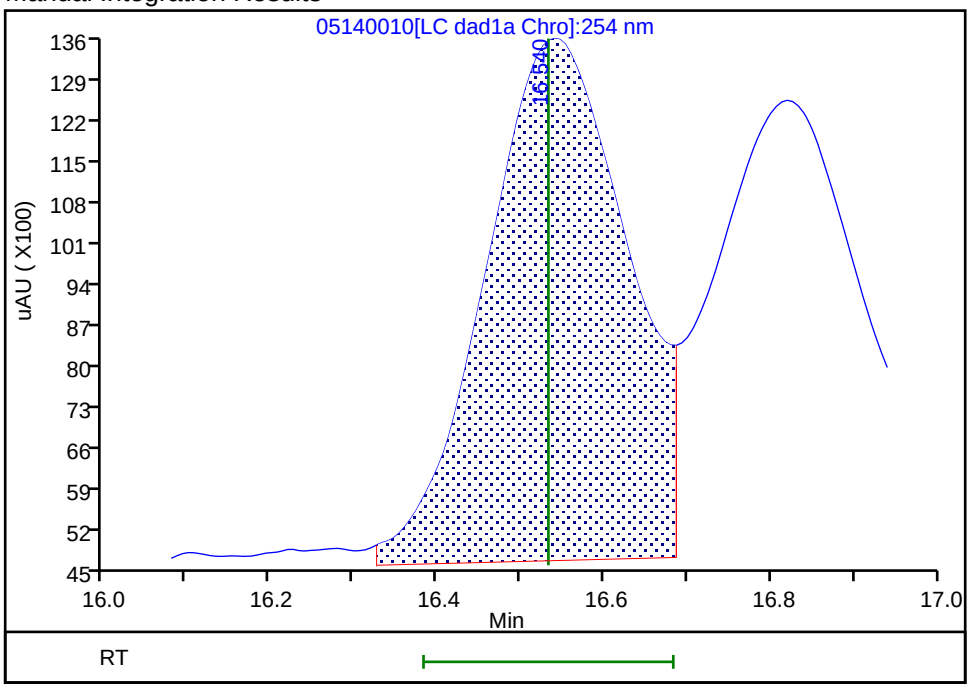
Processing Integration Results

RT: 16.54
Area: 63784
Amount: 0.238403
Amount Units: ug/ml



Manual Integration Results

RT: 16.54
Area: 105493
Amount: 0.386471
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:20:32
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

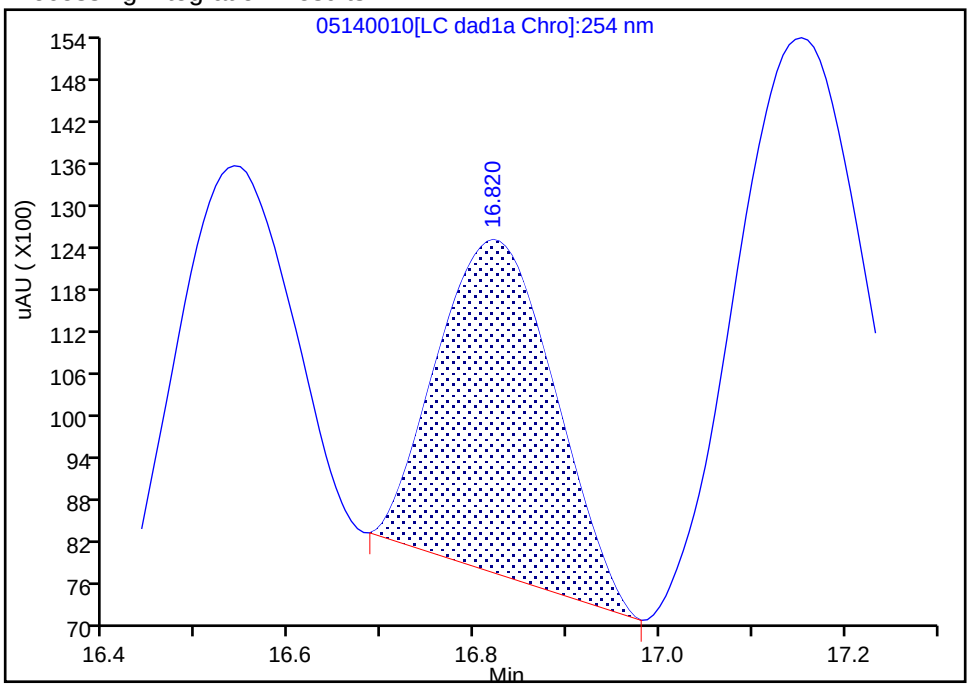
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d				
Injection Date:	14-May-2020 18:01:41	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

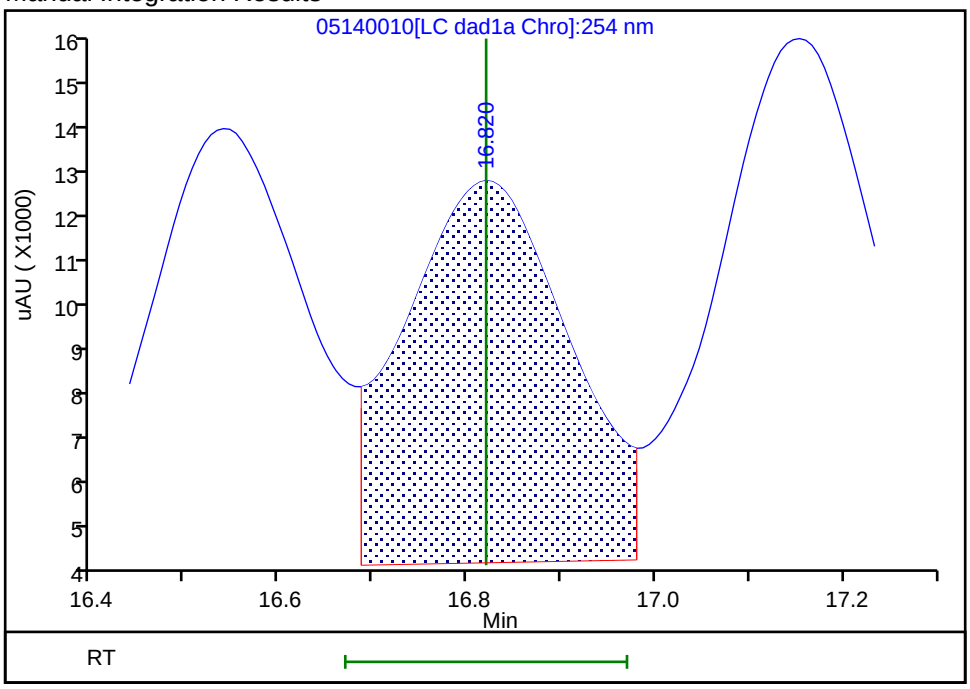
Processing Integration Results

RT: 16.82
Area: 42038
Amount: 0.176152
Amount Units: ug/ml



Manual Integration Results

RT: 16.82
Area: 93773
Amount: 0.389291
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:20:32

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

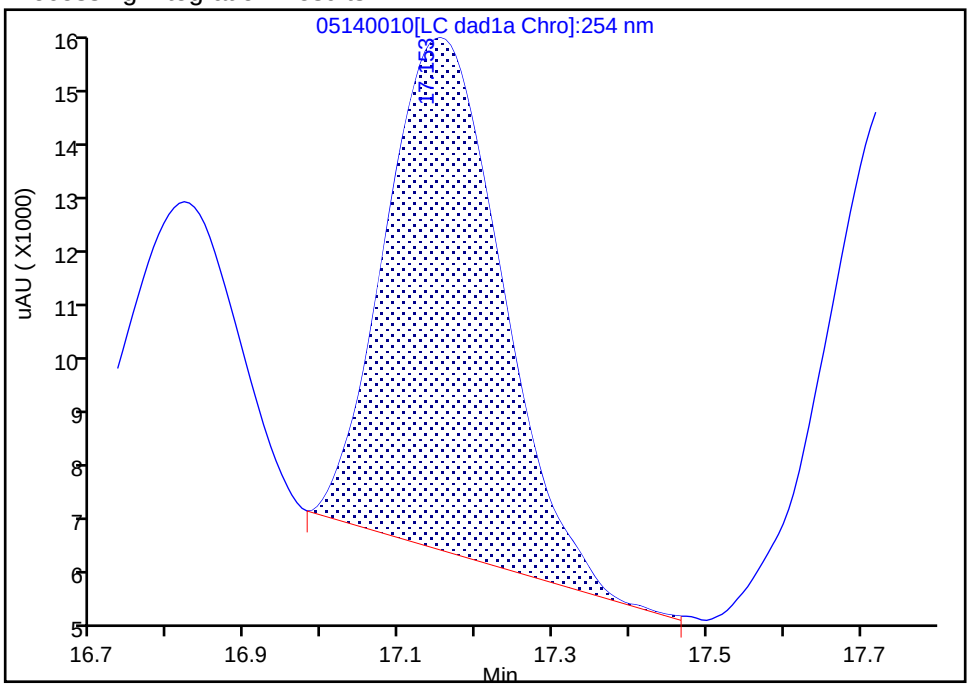
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d
Injection Date: 14-May-2020 18:01:41 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 6
Client ID:
Operator ID: CB ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

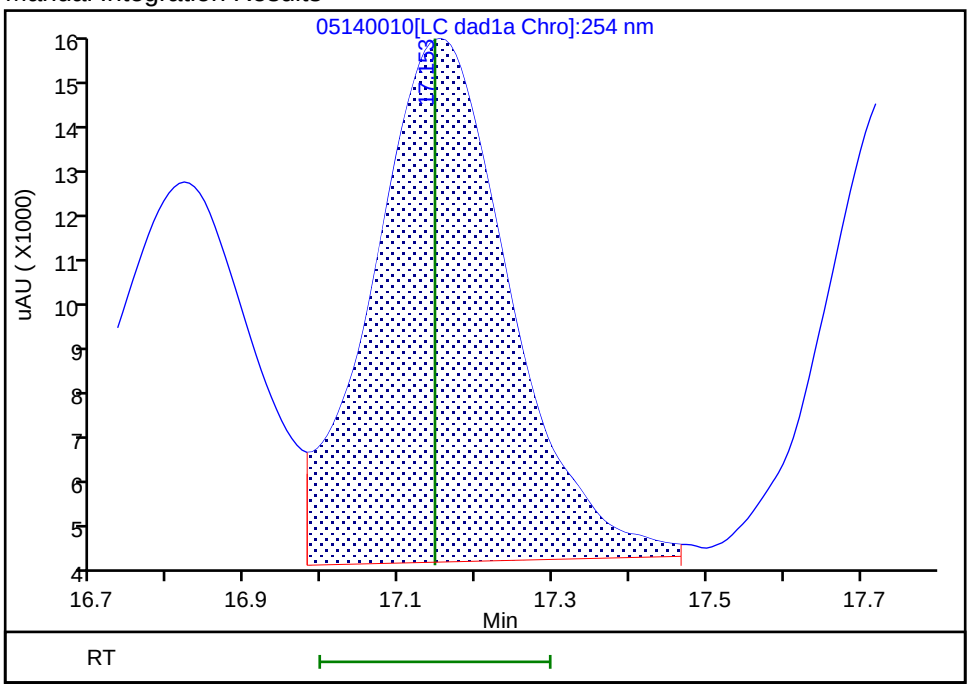
Processing Integration Results

RT: 17.15
Area: 95002
Amount: 0.278639
Amount Units: ug/ml



Manual Integration Results

RT: 17.15
Area: 130436
Amount: 0.377818
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:20:32
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

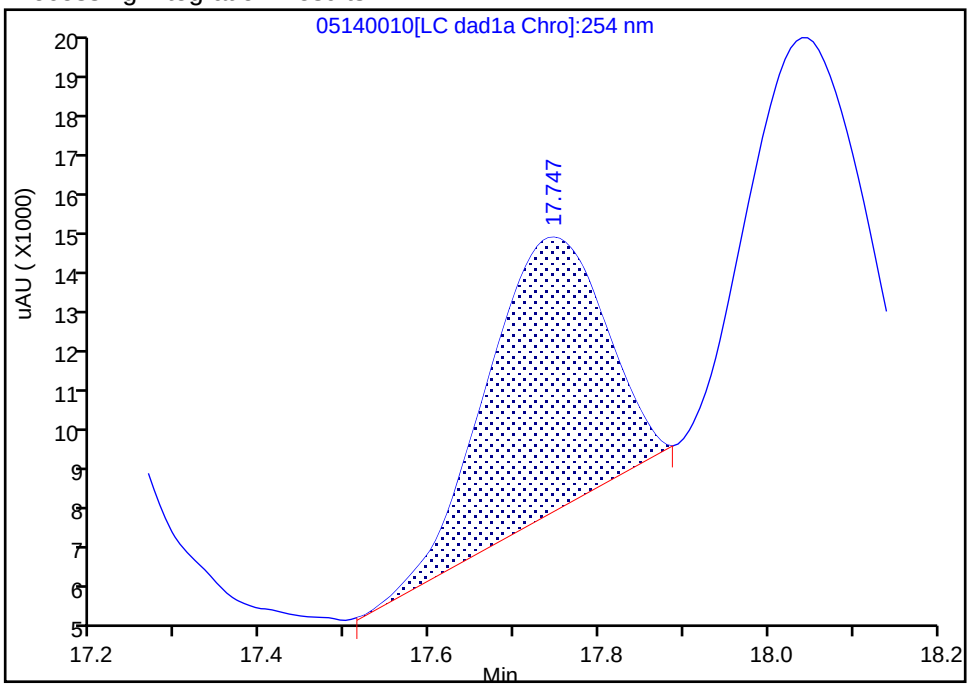
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d				
Injection Date:	14-May-2020 18:01:41	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

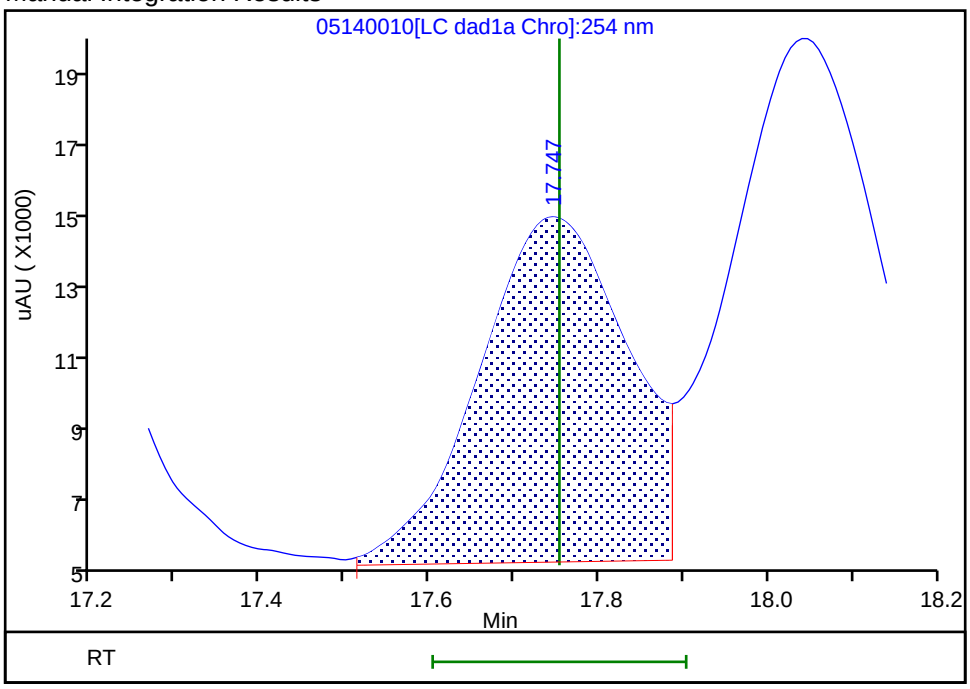
Processing Integration Results

RT: 17.75
Area: 65895
Amount: 0.232967
Amount Units: ug/ml



Manual Integration Results

RT: 17.75
Area: 115331
Amount: 0.386593
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:20:32
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

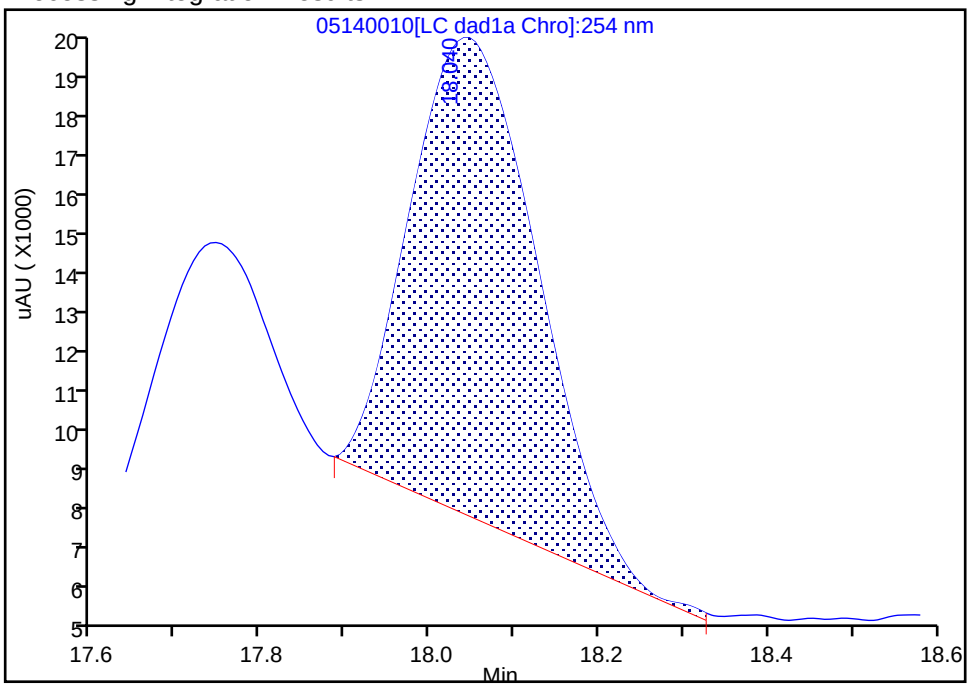
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d				
Injection Date:	14-May-2020 18:01:41	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

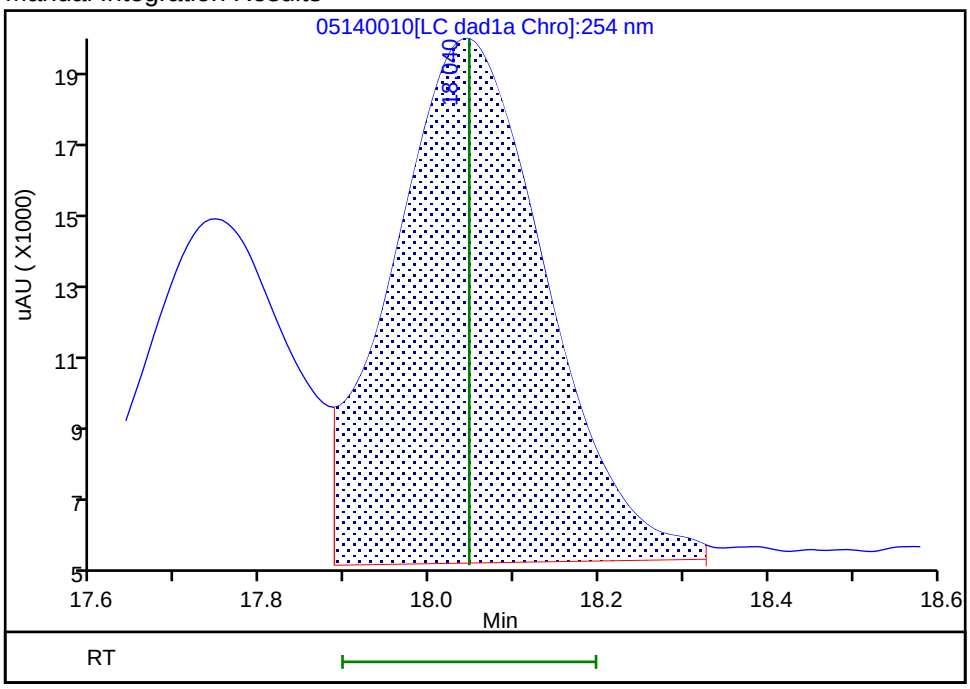
Processing Integration Results

RT: 18.04
Area: 120261
Amount: 0.277181
Amount Units: ug/ml



Manual Integration Results

RT: 18.04
Area: 179358
Amount: 0.385541
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:20:32
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

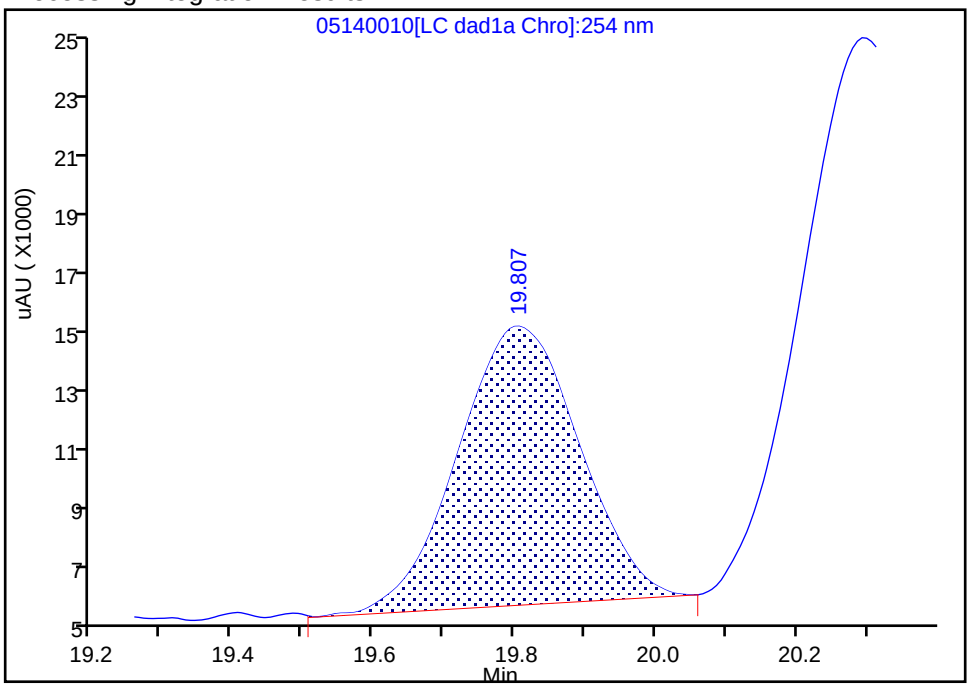
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d				
Injection Date:	14-May-2020 18:01:41	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

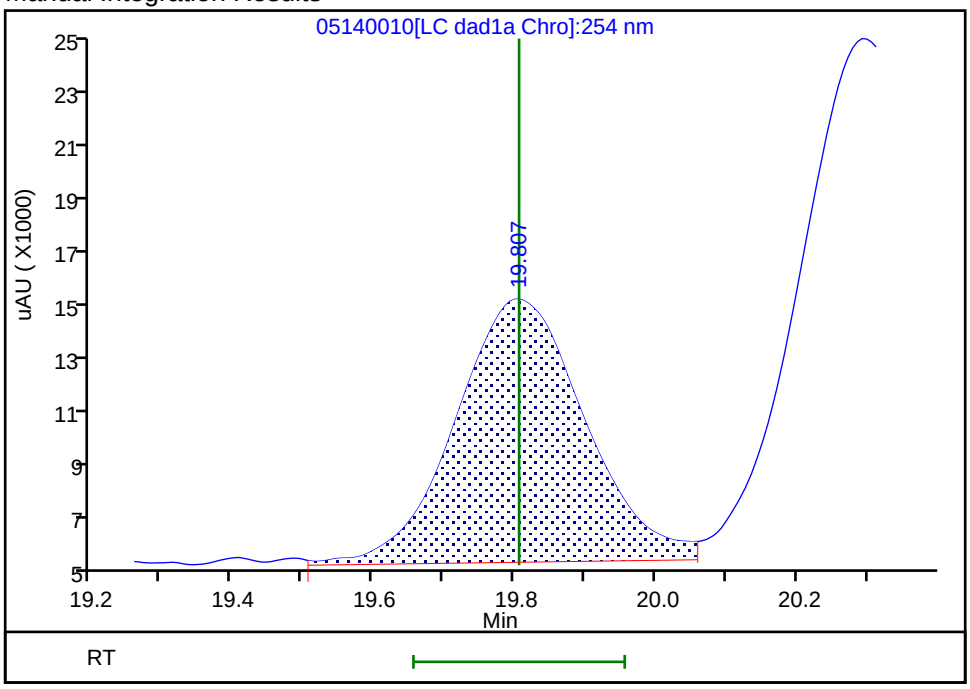
Processing Integration Results

RT: 19.81
Area: 105710
Amount: 0.311662
Amount Units: ug/ml



Manual Integration Results

RT: 19.81
Area: 118093
Amount: 0.392980
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:20:40

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

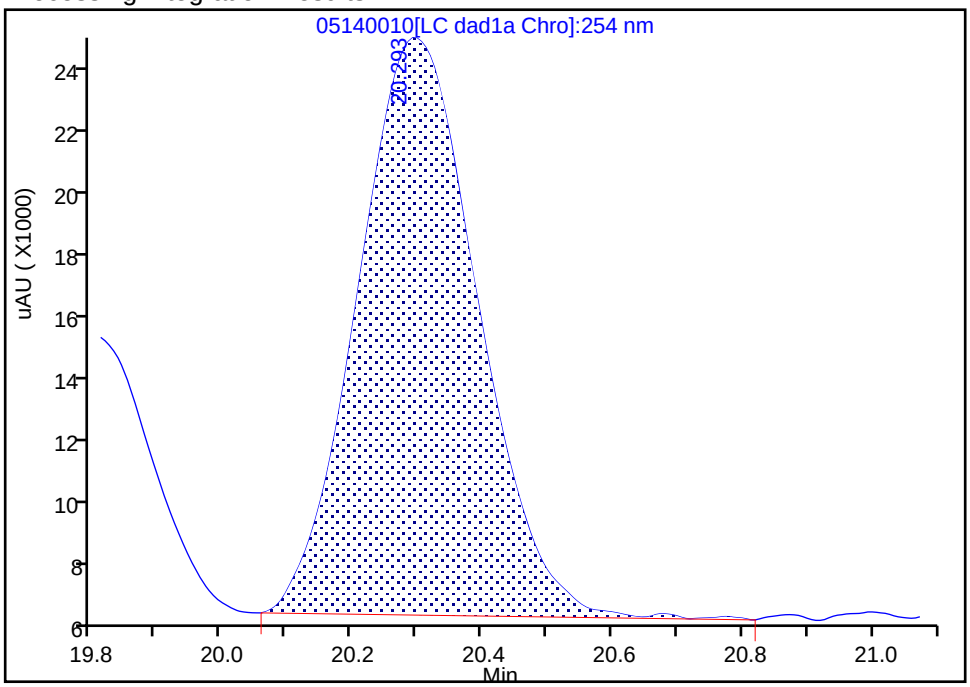
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d
Injection Date: 14-May-2020 18:01:41 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 6
Client ID:
Operator ID: CB ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

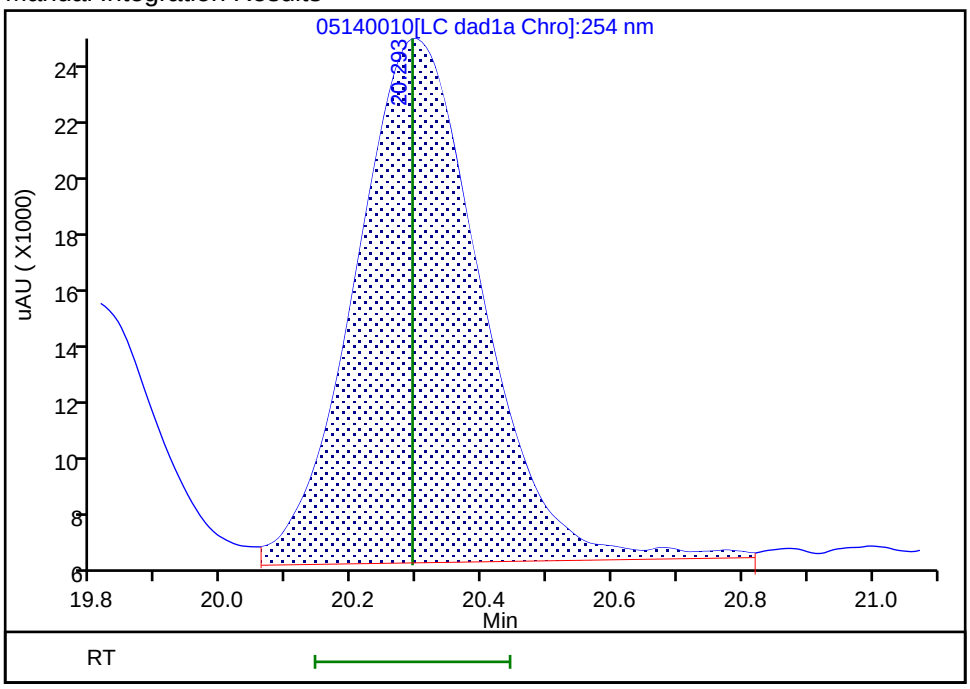
Processing Integration Results

RT: 20.29
Area: 226951
Amount: 0.348081
Amount Units: ug/ml



Manual Integration Results

RT: 20.29
Area: 245009
Amount: 0.382759
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:20:40
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

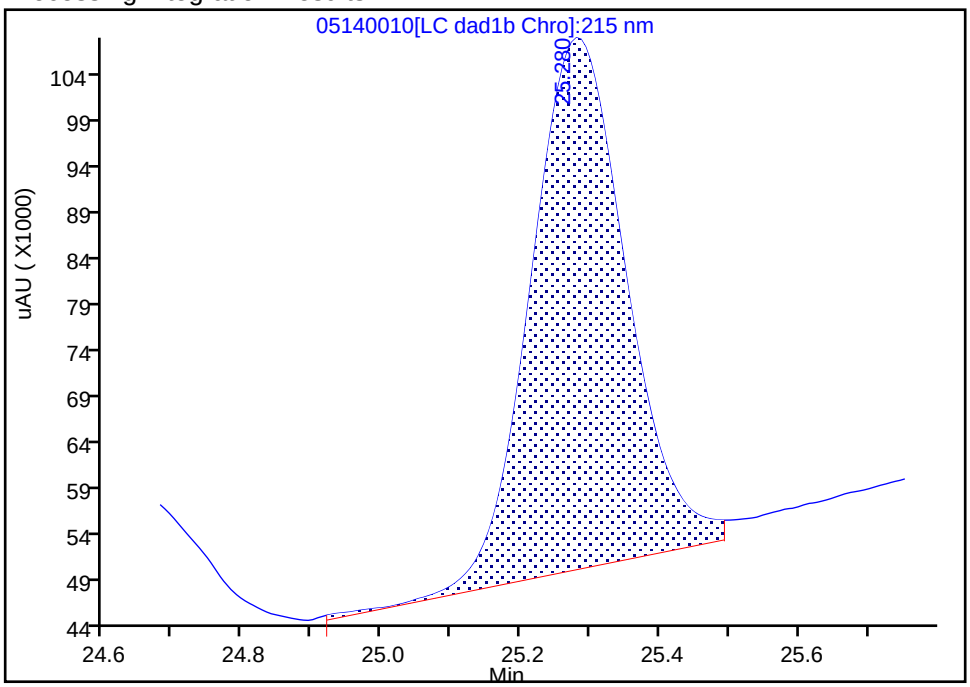
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140010.d
Injection Date: 14-May-2020 18:01:41 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 6
Client ID:
Operator ID: CB ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Detector LC DAD1B, 215 nm

24 PETN, CAS: 78-11-5

Signal: 1

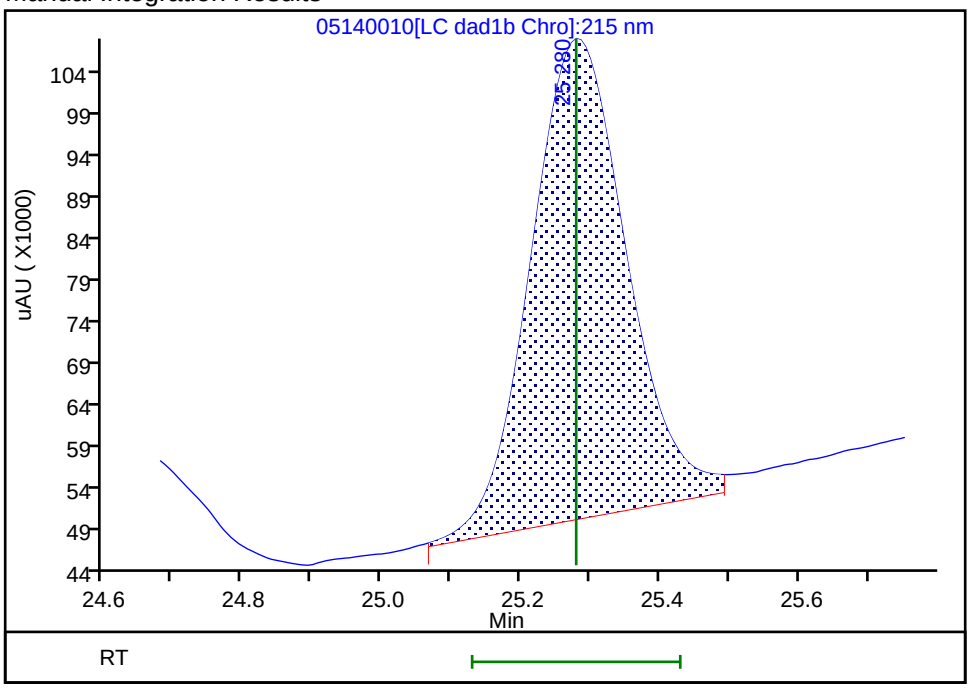
Processing Integration Results

RT: 25.28
Area: 559852
Amount: 4.200524
Amount Units: ug/ml



Manual Integration Results

RT: 25.28
Area: 557734
Amount: 4.102237
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:25:18
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140011.D
Lims ID: IC FULL 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 14-May-2020 18:36:40 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC FULL 5
Misc. Info.: 280-0091518-011
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:00:56 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 15-May-2020 11:20:54

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.366	4.366	0.000	106754	0.2500	0.2487	
2 2,4-diamino-6-nitrotoluene	1	4.880	4.880	0.000	74938	0.2500	0.2919	
5 2,4,6-Trinitrophenol	1	6.300	6.300	0.000	48614	0.2500	0.2508	a
6 HMX	1	6.986	6.986	0.000	54065	0.2500	0.2754	
8 RDX	1	9.173	9.173	0.000	62626	0.2500	0.2563	
9 Nitrobenzene	1	12.106	12.106	0.000	106064	0.2510	0.2415	
$ 10 1,2-Dinitrobenzene	1	13.040	13.040	0.000	62375	0.2500	0.2184	M
11 3,5-Dinitroaniline	1	14.886	14.886	0.000	130301	0.2500	0.2629	
12 1,3-Dinitrobenzene	1	15.553	15.553	0.000	172289	0.2505	0.2556	
13 Nitroglycerin	2	15.853	15.853	0.000	330378	2.50	2.61	M
14 o-Nitrotoluene	1	16.533	16.533	0.000	63146	0.2500	0.2313	
15 p-Nitrotoluene	1	16.820	16.820	0.000	59605	0.2505	0.2474	
16 4-Amino-2,6-dinitrotoluene	1	17.146	17.146	0.000	79168	0.2503	0.2293	
17 m-Nitrotoluene	1	17.753	17.753	0.000	71162	0.2503	0.2385	
18 2-Amino-4,6-dinitrotoluene	1	18.046	18.046	0.000	112860	0.2510	0.2426	
19 1,3,5-Trinitrobenzene	1	18.886	18.886	0.000	118709	0.2505	0.2513	
20 2,6-Dinitrotoluene	1	19.806	19.806	0.000	74317	0.2510	0.2416	
21 2,4-Dinitrotoluene	1	20.293	20.293	0.000	153249	0.2510	0.2394	
22 Tetryl	1	23.553	23.553	0.000	92236	0.2505	0.2502	
23 2,4,6-Trinitrotoluene	1	24.653	24.653	0.000	100168	0.2510	0.2416	
24 PETN	2	25.280	25.280	0.000	338241	2.50	2.40	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8330IntermStk_00064	Amount Added:	25.00	Units: uL
8330_ADDs_00026	Amount Added:	12.50	Units: uL

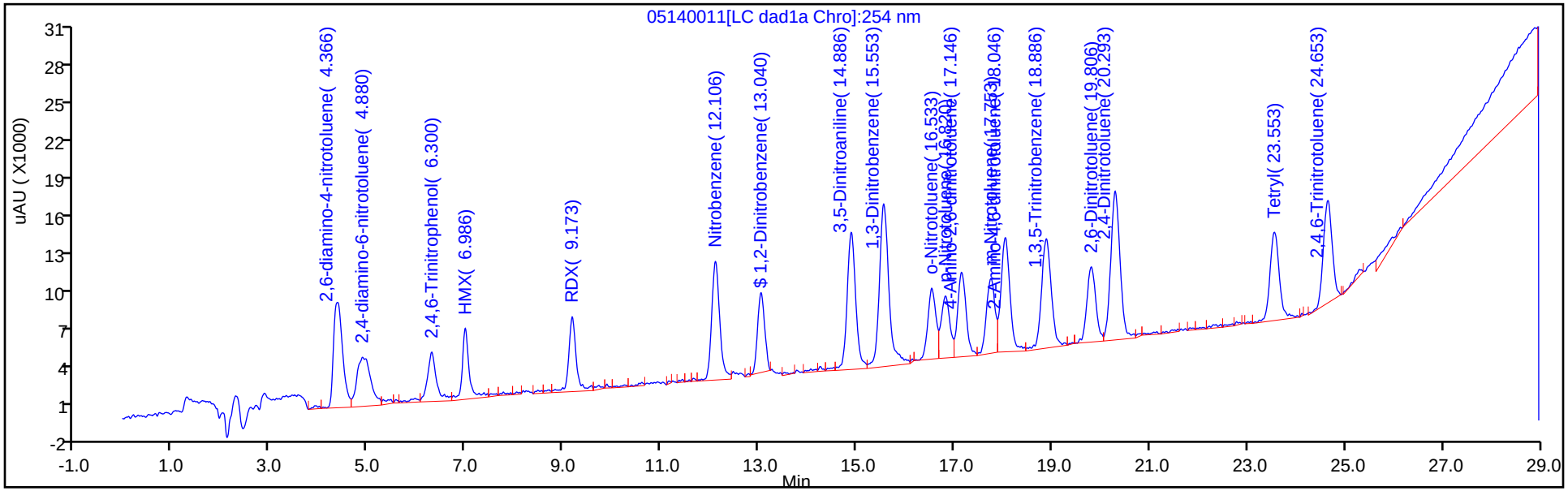
Report Date: 15-May-2020 12:00:57 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

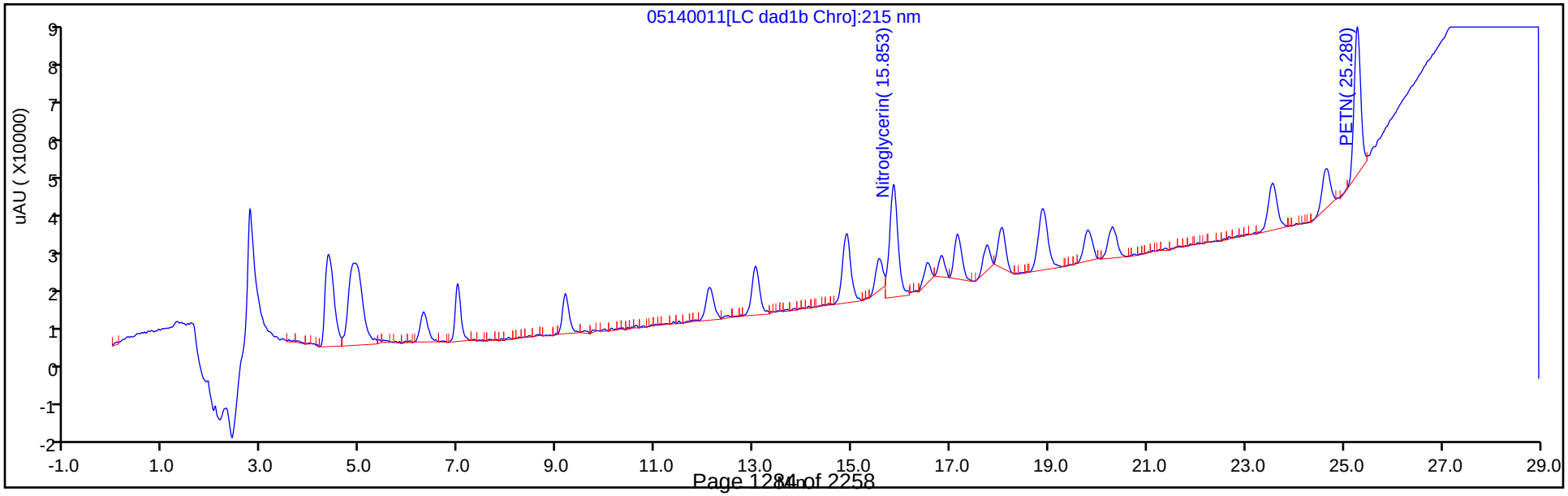
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140011.d

Injection Date:	14-May-2020 18:36:40	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC FULL 5			Worklist Smp#:	11
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

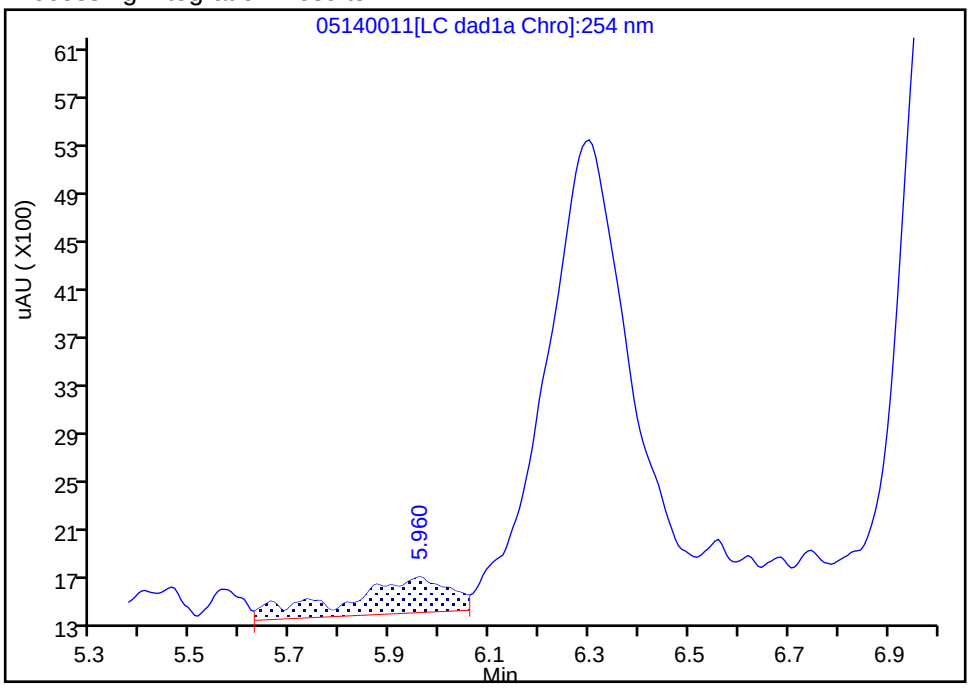
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140011.d				
Injection Date:	14-May-2020 18:36:40	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 5				
Client ID:					
Operator ID:	CB	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

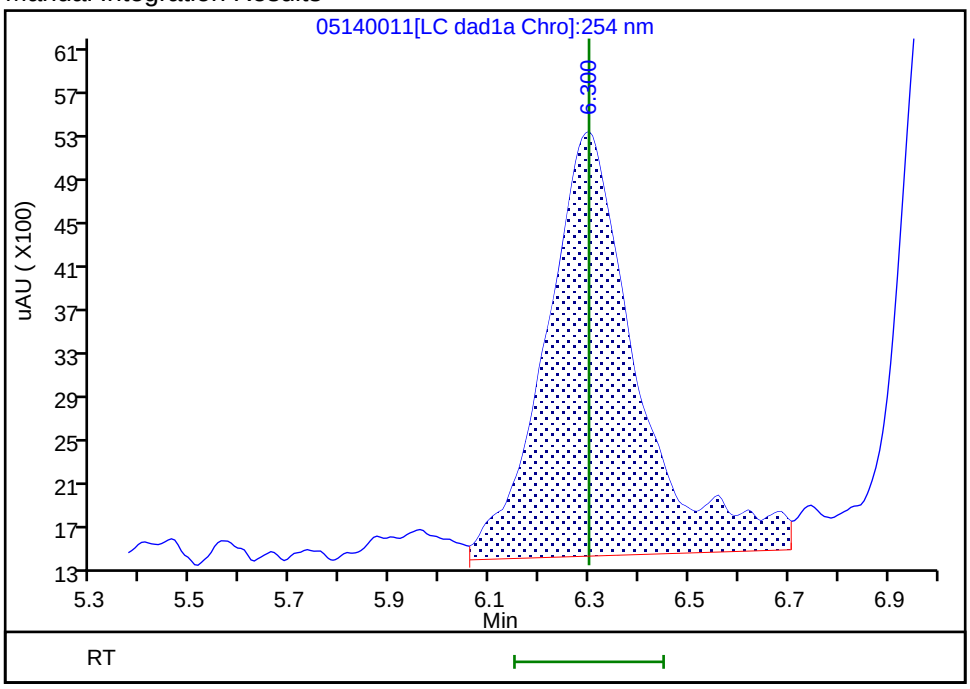
Processing Integration Results

RT: 5.96
Area: 4251
Amount: 0.036696
Amount Units: ug/ml



Manual Integration Results

RT: 6.30
Area: 48614
Amount: 0.250833
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:20:52
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

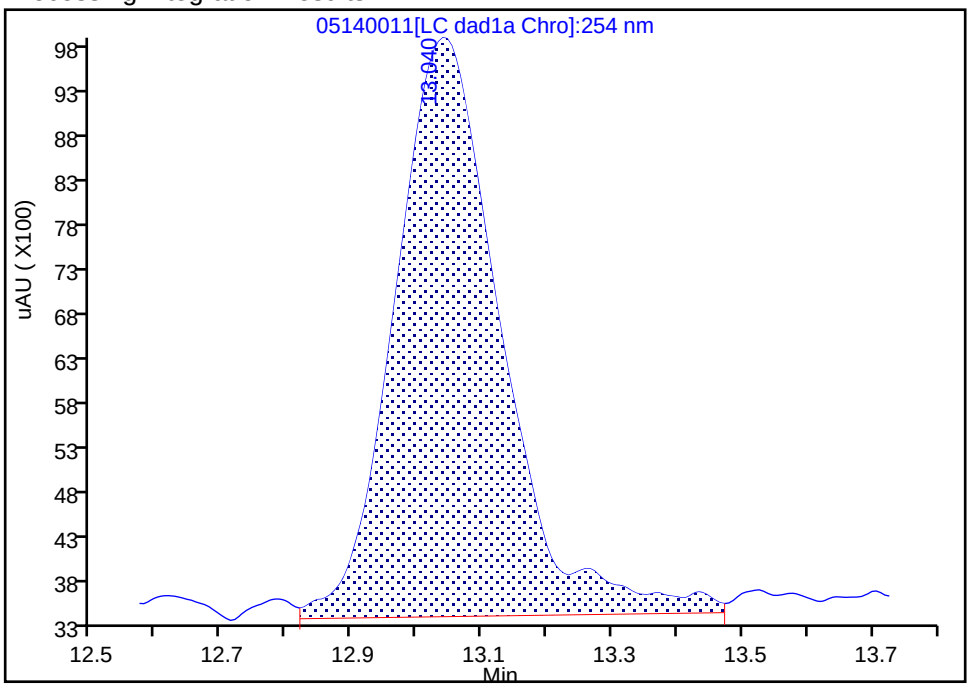
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140011.d				
Injection Date:	14-May-2020 18:36:40	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 5				
Client ID:					
Operator ID:	CB	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

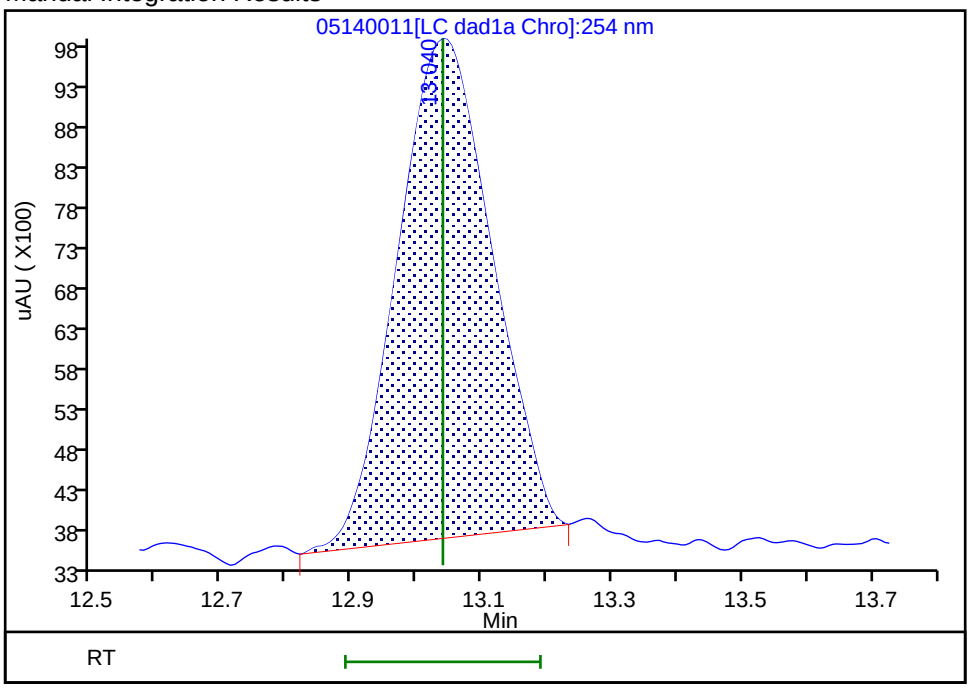
Processing Integration Results

RT: 13.04
Area: 73345
Amount: 0.234804
Amount Units: ug/ml



Manual Integration Results

RT: 13.04
Area: 62375
Amount: 0.218362
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:35:01

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

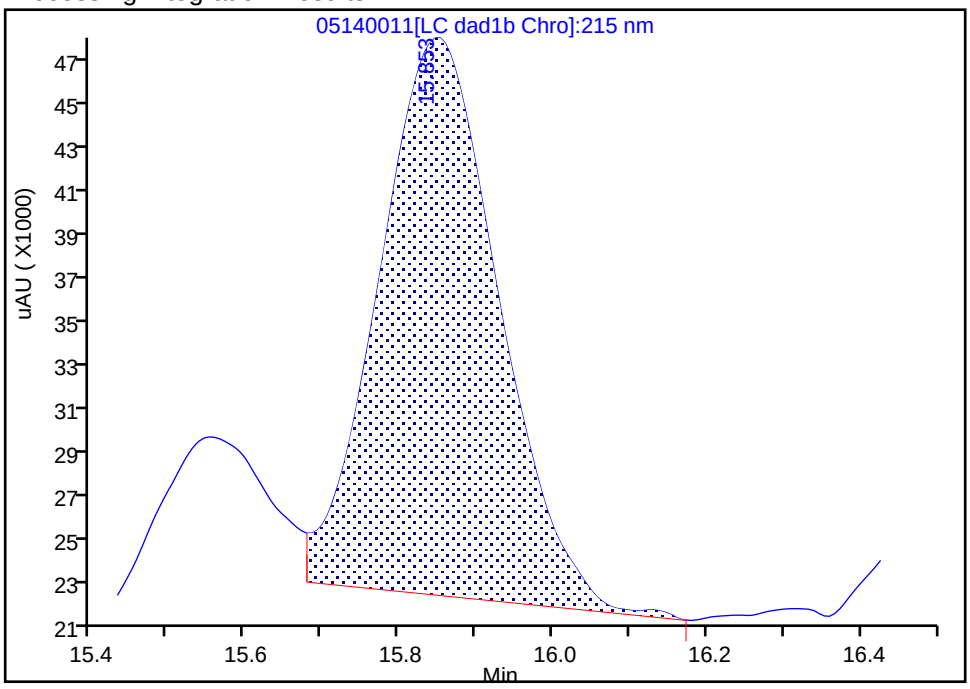
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140011.d
Injection Date: 14-May-2020 18:36:40 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 5
Client ID:
Operator ID: CB ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Detector LC DAD1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

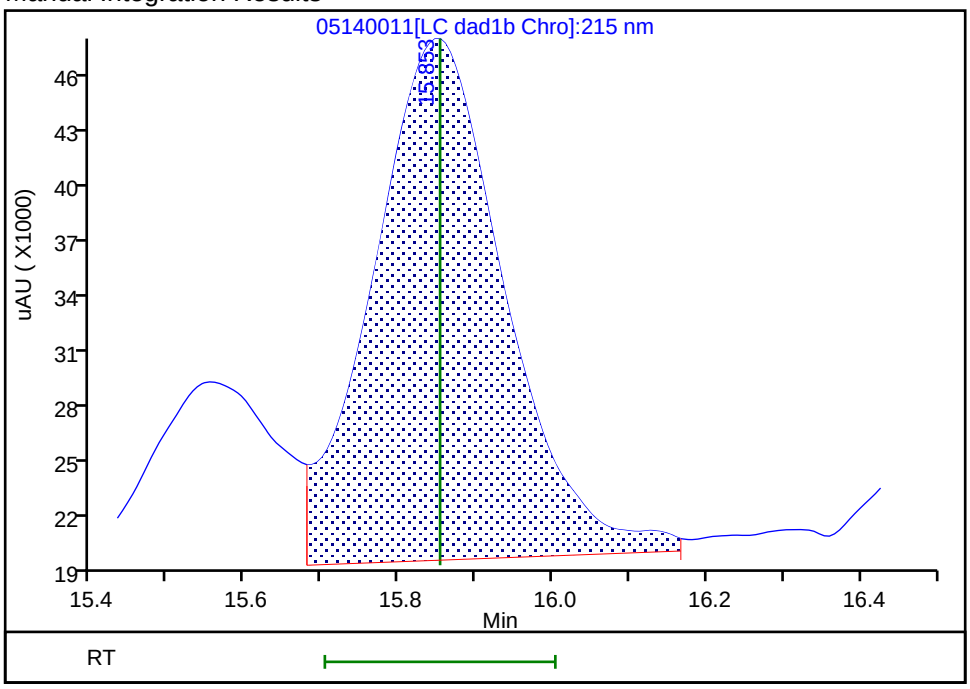
Processing Integration Results

RT: 15.85
Area: 276053
Amount: 2.464482
Amount Units: ug/ml



Manual Integration Results

RT: 15.85
Area: 330378
Amount: 2.605436
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:32:11
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

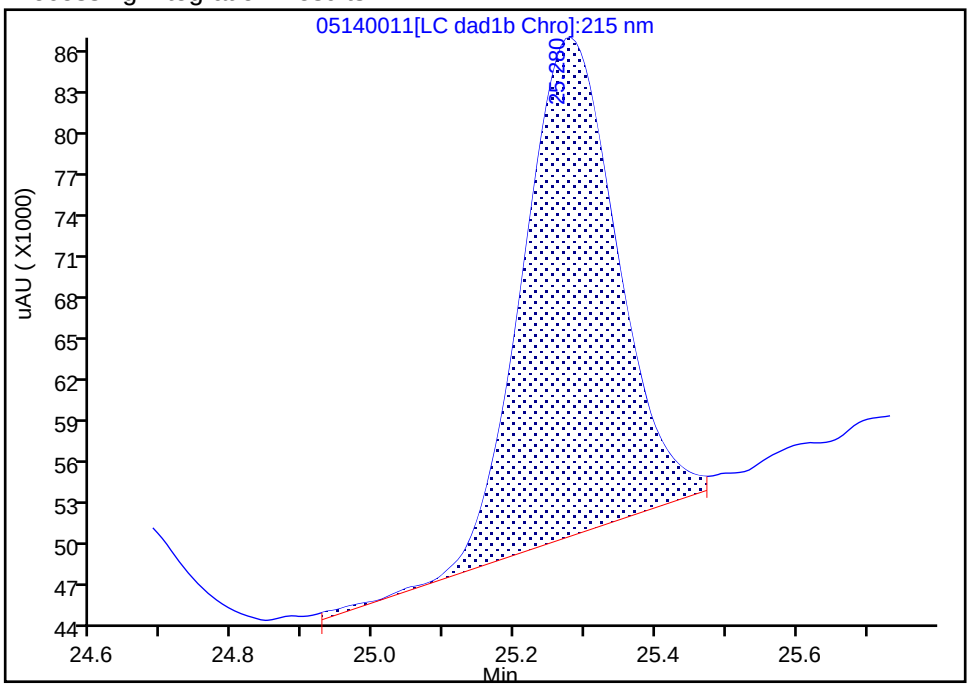
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140011.d
Injection Date: 14-May-2020 18:36:40 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 5
Client ID:
Operator ID: CB ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Detector LC DAD1B, 215 nm

24 PETN, CAS: 78-11-5

Signal: 1

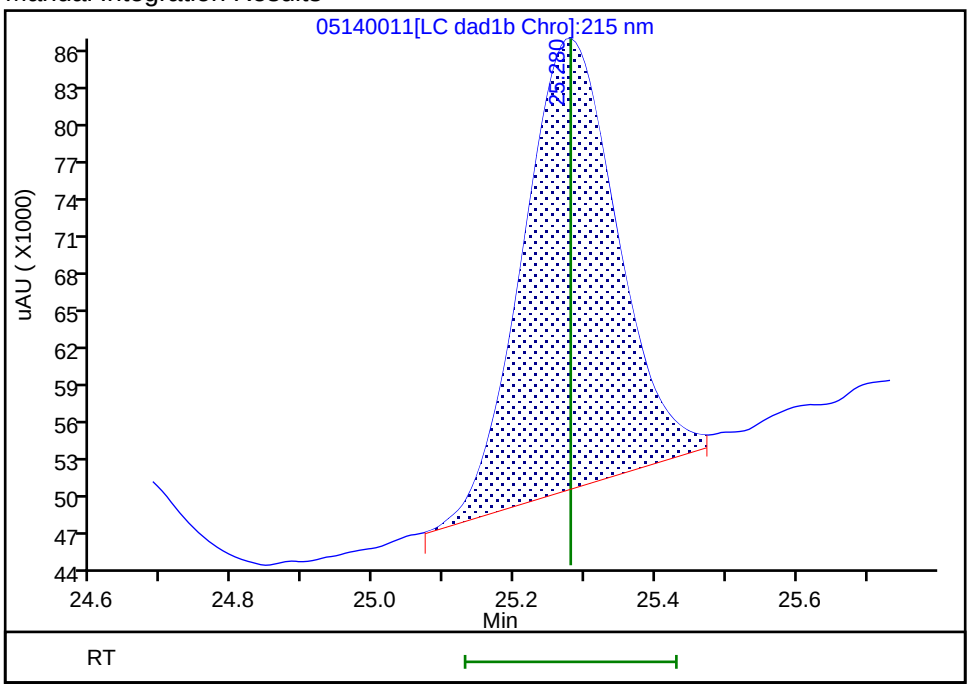
Processing Integration Results

RT: 25.28
Area: 339815
Amount: 2.534573
Amount Units: ug/ml



Manual Integration Results

RT: 25.28
Area: 338241
Amount: 2.404524
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:25:08
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140012.D
Lims ID: IC FULL 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 14-May-2020 19:11:37 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC FULL 4
Misc. Info.: 280-0091518-012
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:00:57 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 15-May-2020 11:21:52

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1	2,6-diamino-4-nitrotoluene	1	4.361	4.366	-0.005	44739	0.1000	0.1042	
2	2,4-diamino-6-nitrotoluene	1	4.941	4.880	0.061	33889	0.1000	0.1193	
5	2,4,6-Trinitrophenol	1	6.308	6.300	0.008	23170	0.1000	0.1195	a
6	HMX	1	6.994	6.986	0.008	24294	0.1000	0.1072	
8	RDX	1	9.181	9.173	0.008	27233	0.1000	0.1114	
9	Nitrobenzene	1	12.114	12.106	0.008	42679	0.1004	0.0972	
$ 10	1,2-Dinitrobenzene	1	13.048	13.040	0.008	30683	0.1000	0.1040	
11	3,5-Dinitroaniline	1	14.901	14.886	0.015	51716	0.1000	0.1009	M
12	1,3-Dinitrobenzene	1	15.554	15.553	0.001	69012	0.1002	0.1024	M
13	Nitroglycerin	2	15.848	15.853	-0.005	141489	1.00	1.12	M
14	o-Nitrotoluene	1	16.534	16.533	0.001	29062	0.1000	0.1065	M
15	p-Nitrotoluene	1	16.828	16.820	0.008	25956	0.1002	0.1078	M
16	4-Amino-2,6-dinitrotoluene	1	17.148	17.146	0.002	32448	0.1001	0.0940	M
17	m-Nitrotoluene	1	17.741	17.753	-0.012	30586	0.1001	0.1025	M
18	2-Amino-4,6-dinitrotoluene	1	18.054	18.046	0.008	47526	0.1004	0.1022	M
19	1,3,5-Trinitrobenzene	1	18.881	18.886	-0.005	51028	0.1002	0.1080	M
20	2,6-Dinitrotoluene	1	19.794	19.806	-0.012	34659	0.1004	0.1045	M
21	2,4-Dinitrotoluene	1	20.288	20.293	-0.005	67500	0.1004	0.1055	M
22	Tetryl	1	23.548	23.553	-0.005	38547	0.1002	0.1046	
23	2,4,6-Trinitrotoluene	1	24.654	24.653	0.001	43208	0.1004	0.0997	
24	PETN	2	25.281	25.280	0.001	132172	1.00	0.8106	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8330IntermStk_00064	Amount Added:	10.00	Units: uL
8330_ADDs_00026	Amount Added:	5.00	Units: uL

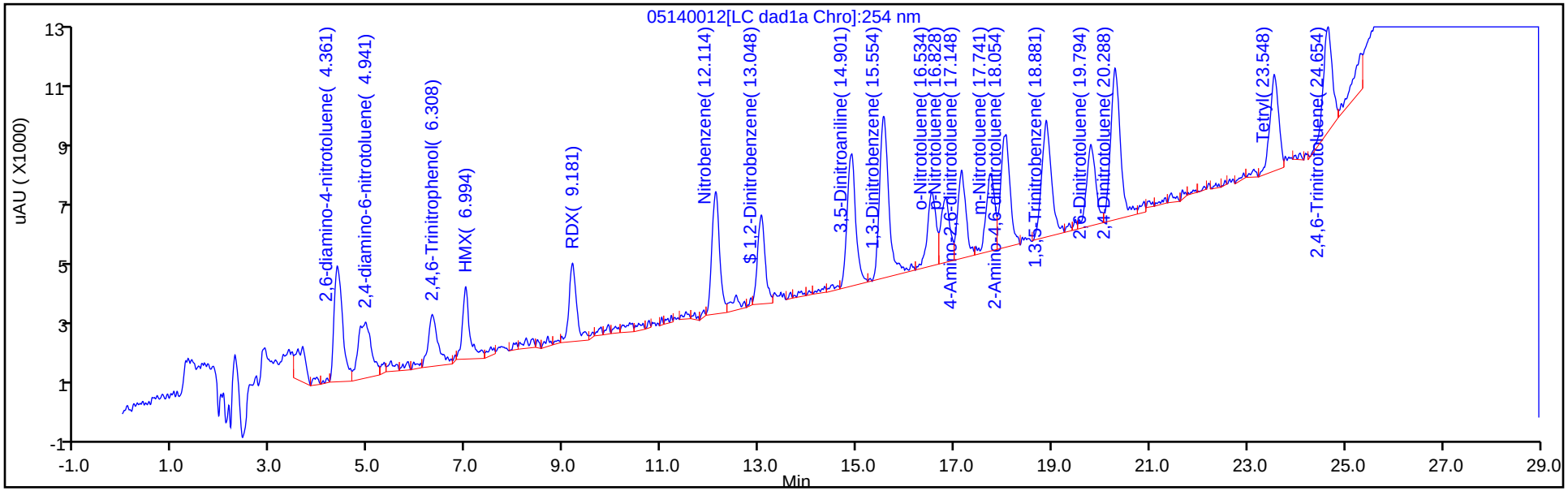
Report Date: 15-May-2020 12:00:57 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

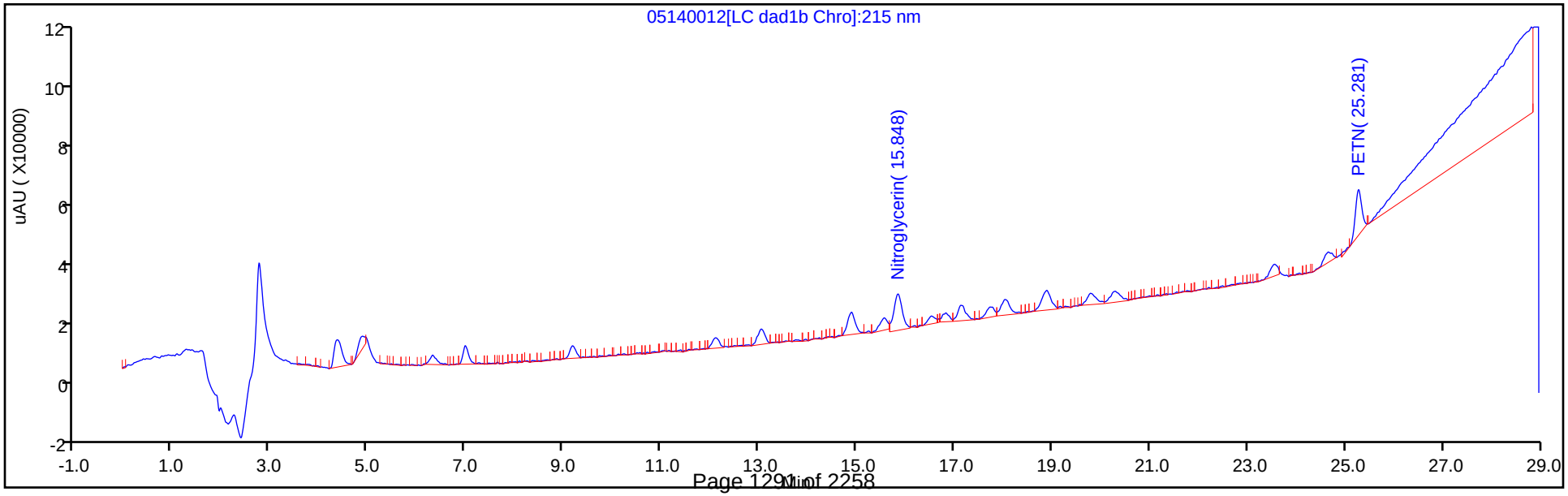
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d

Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC FULL 4			Worklist Smp#:	12
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

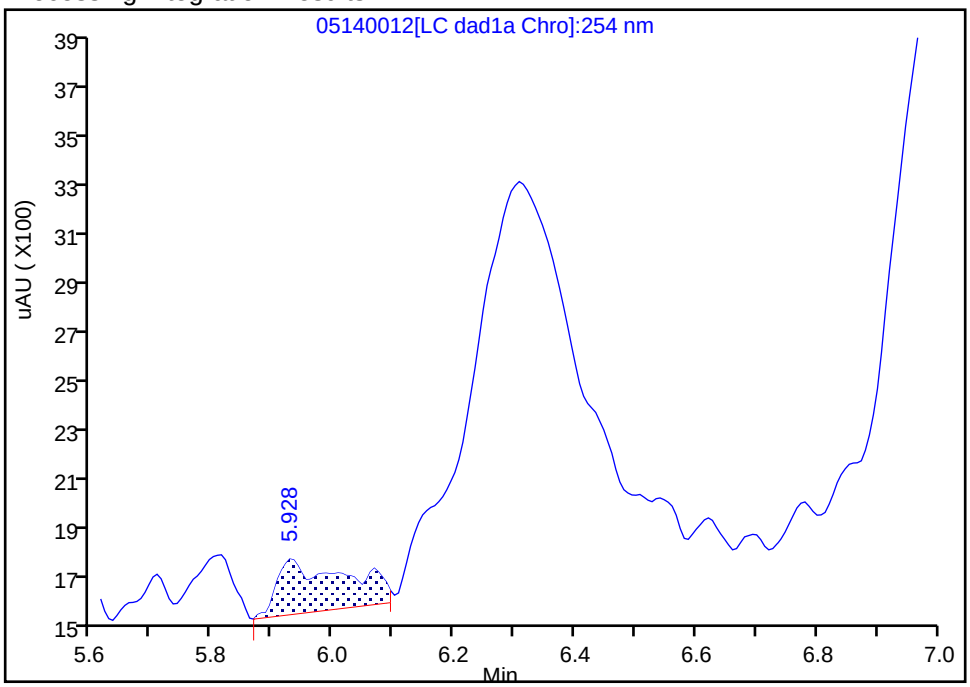
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

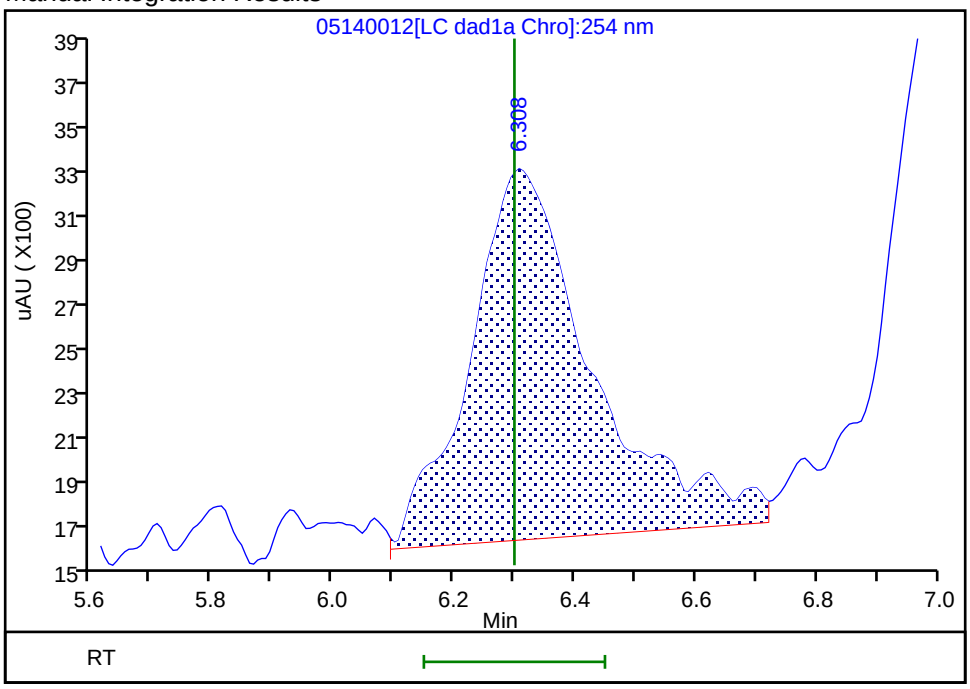
Processing Integration Results

RT: 5.93
Area: 1700
Amount: 0.010784
Amount Units: ug/ml



Manual Integration Results

RT: 6.31
Area: 23170
Amount: 0.119550
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:21
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

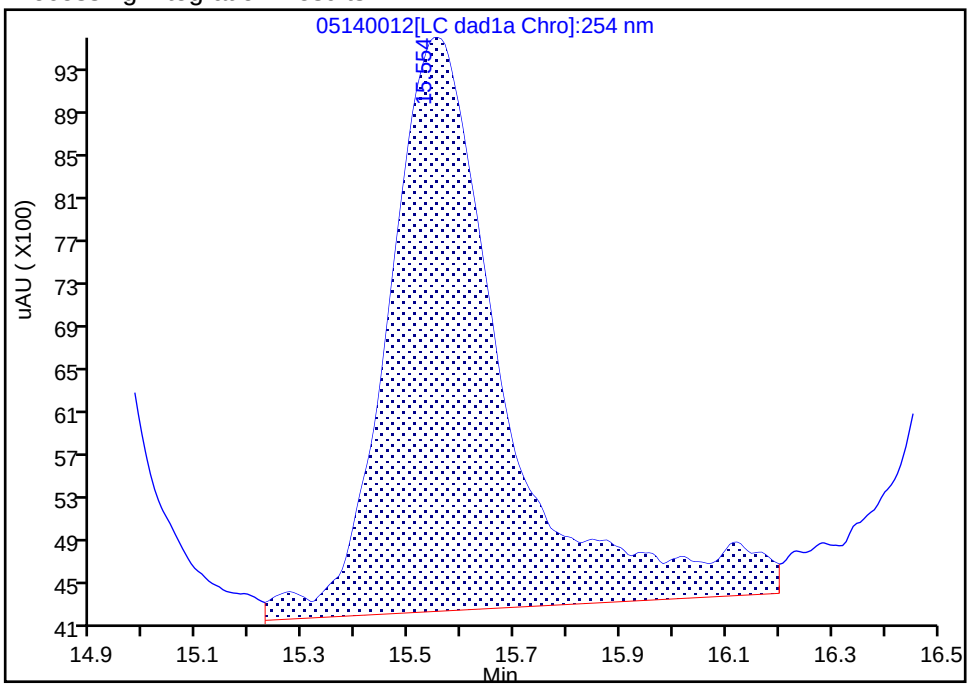
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

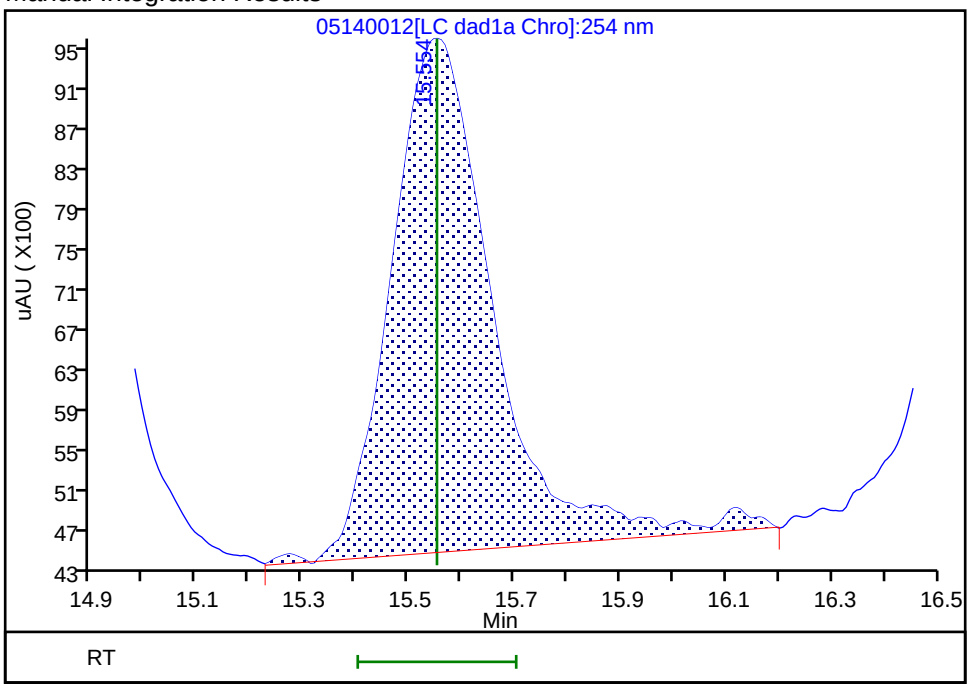
Processing Integration Results

RT: 15.55
Area: 81626
Amount: 0.119366
Amount Units: ug/ml



Manual Integration Results

RT: 15.55
Area: 69012
Amount: 0.102363
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:21:48

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

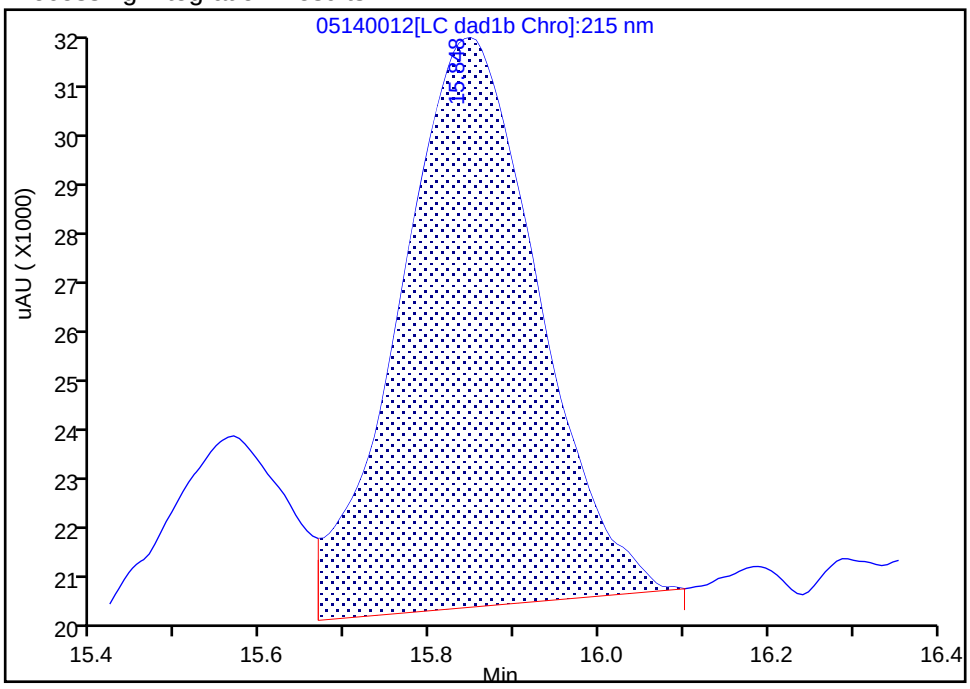
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC DAD1B, 215 nm		

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

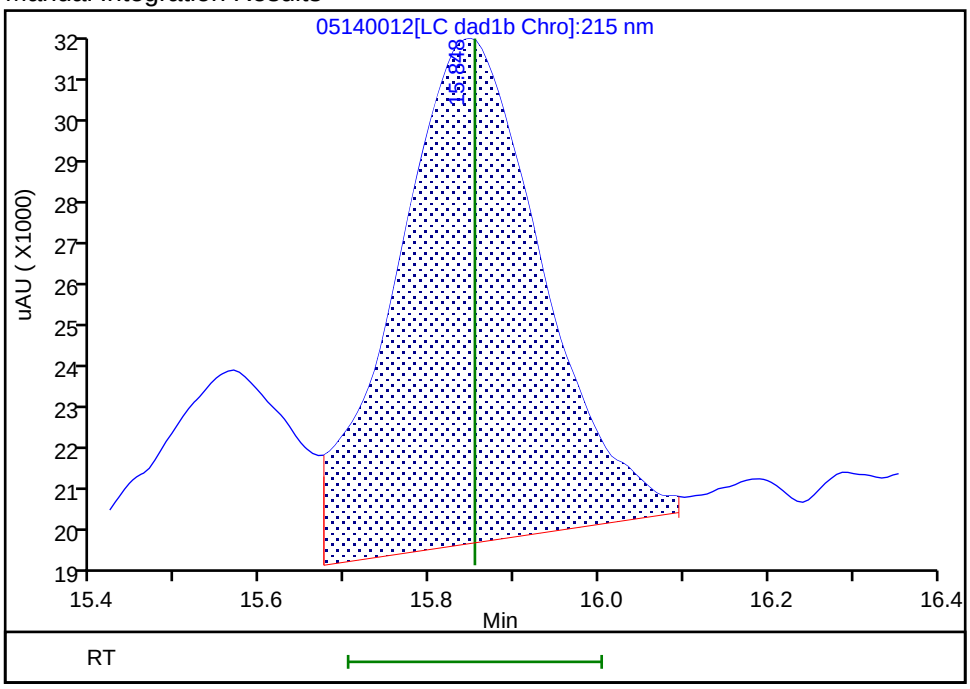
Processing Integration Results

RT: 15.85
Area: 125471
Amount: 1.093631
Amount Units: ug/ml



Manual Integration Results

RT: 15.85
Area: 141489
Amount: 1.115815
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:32:25

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

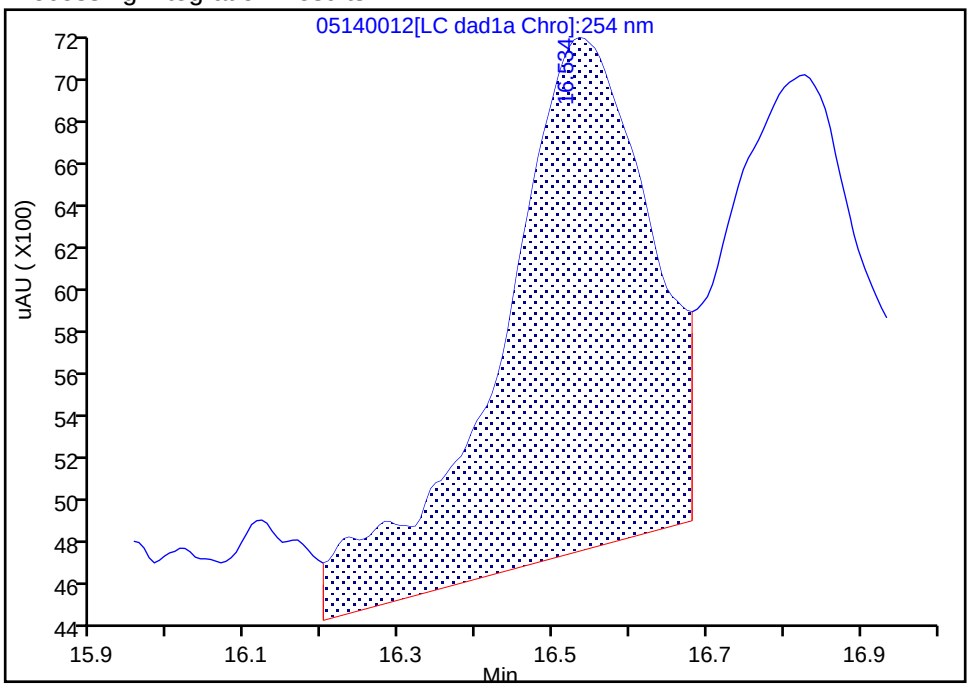
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

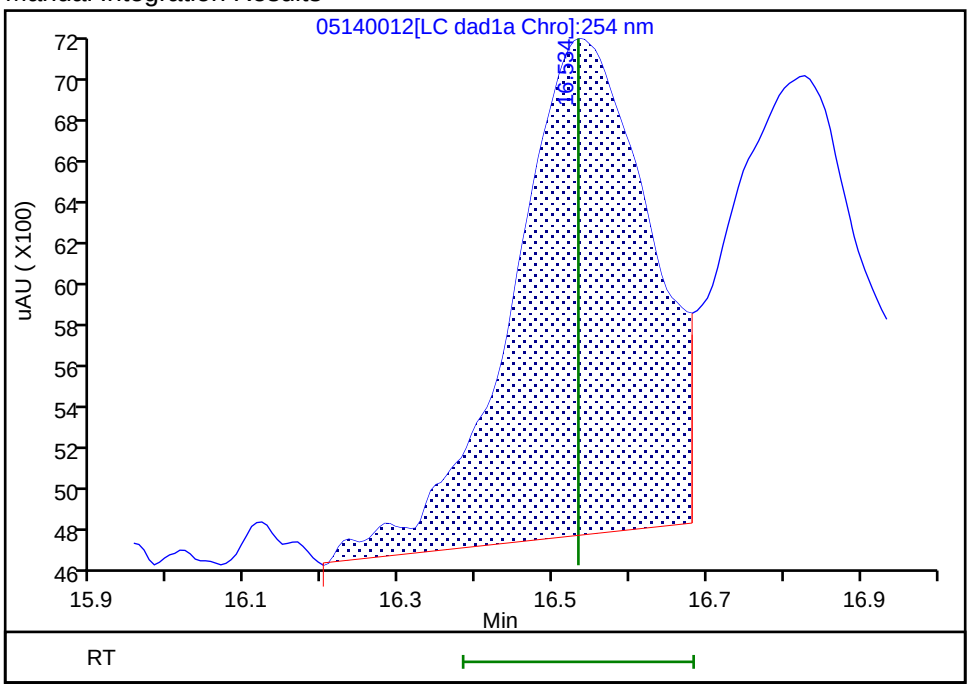
Processing Integration Results

RT: 16.53
Area: 33080
Amount: 0.118510
Amount Units: ug/ml



Manual Integration Results

RT: 16.53
Area: 29062
Amount: 0.106468
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:21:48

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

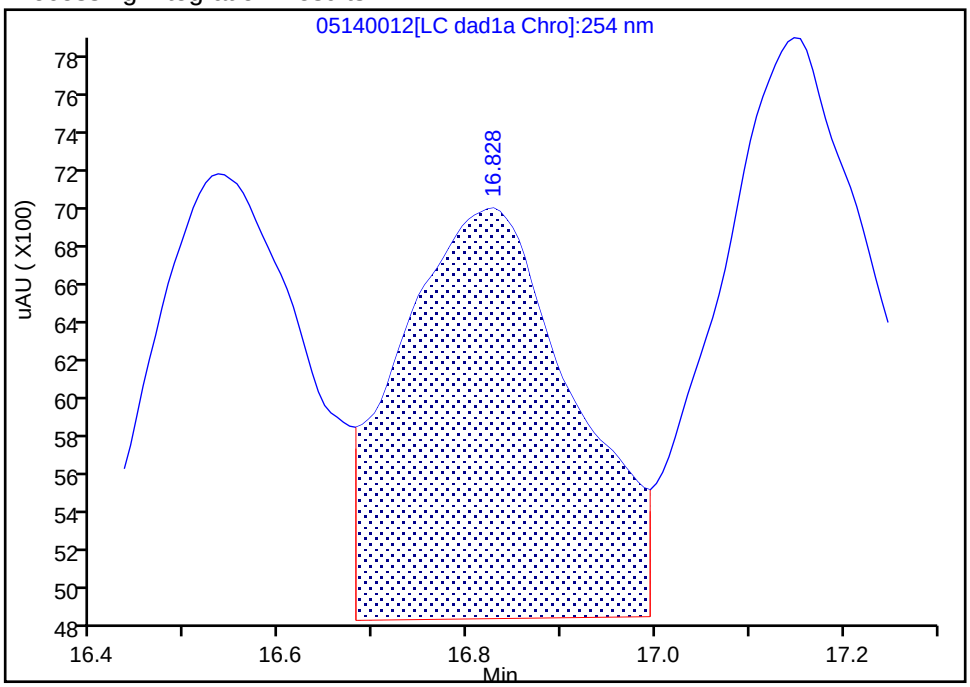
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

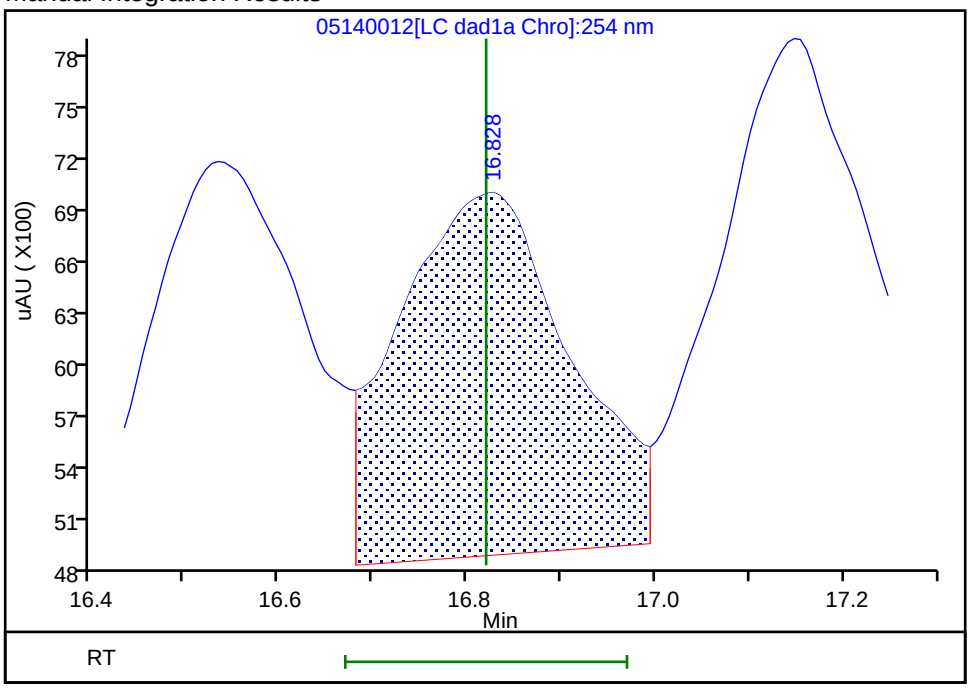
Processing Integration Results

RT: 16.83
Area: 26887
Amount: 0.106277
Amount Units: ug/ml



Manual Integration Results

RT: 16.83
Area: 25956
Amount: 0.107754
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:21:48

Audit Action: Assigned New Baseline Audit Reason: Baseline

Eurofins TestAmerica, Denver

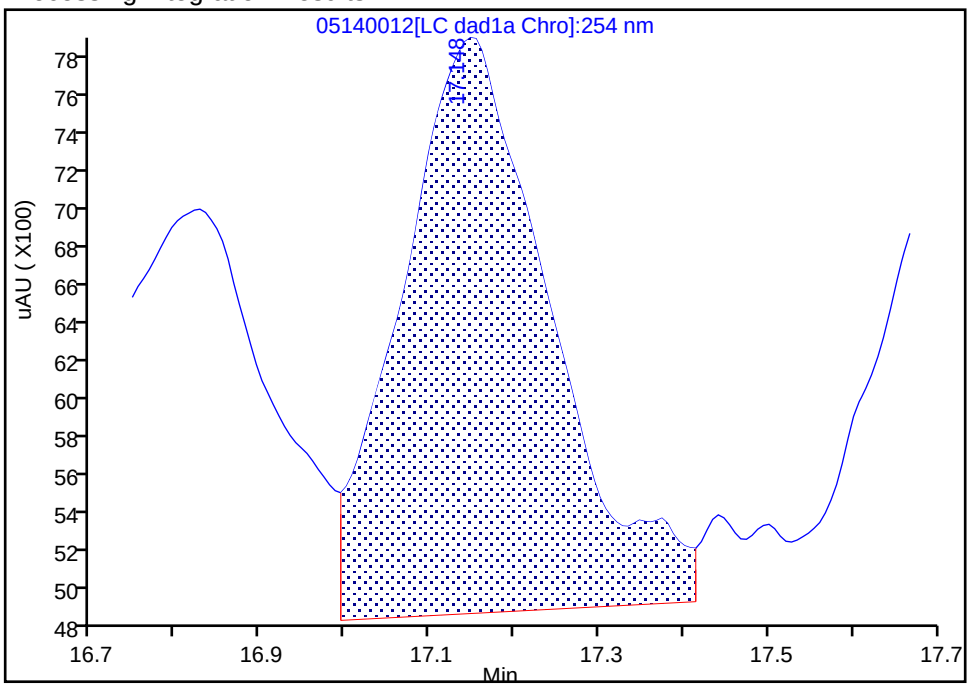
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d
Injection Date: 14-May-2020 19:11:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 4
Client ID:
Operator ID: CB ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

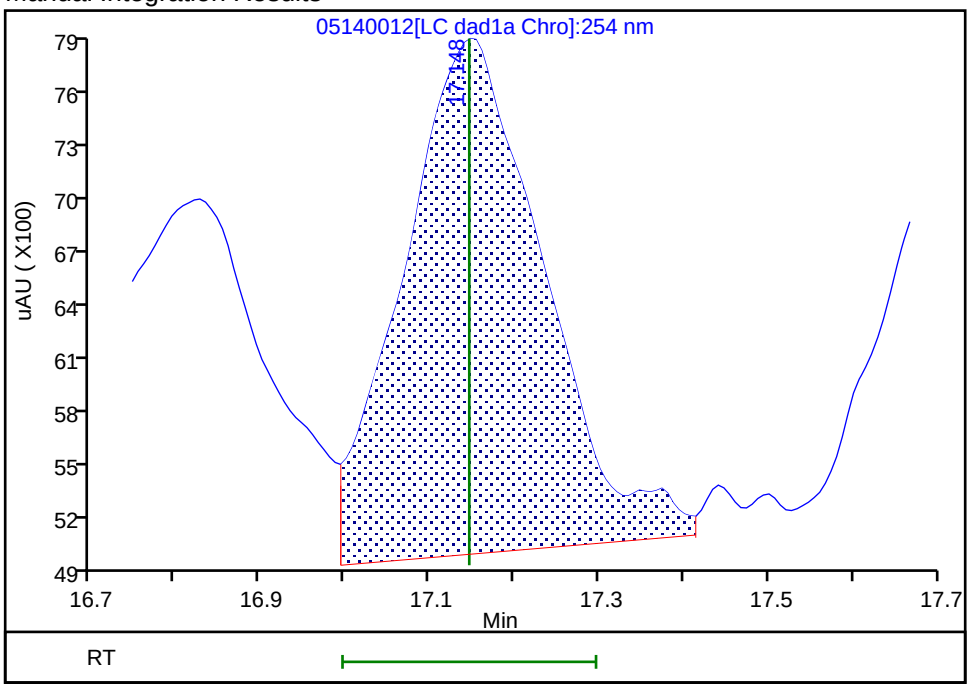
Processing Integration Results

RT: 17.15
Area: 35863
Amount: 0.102237
Amount Units: ug/ml



Manual Integration Results

RT: 17.15
Area: 32448
Amount: 0.093988
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:21:48
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

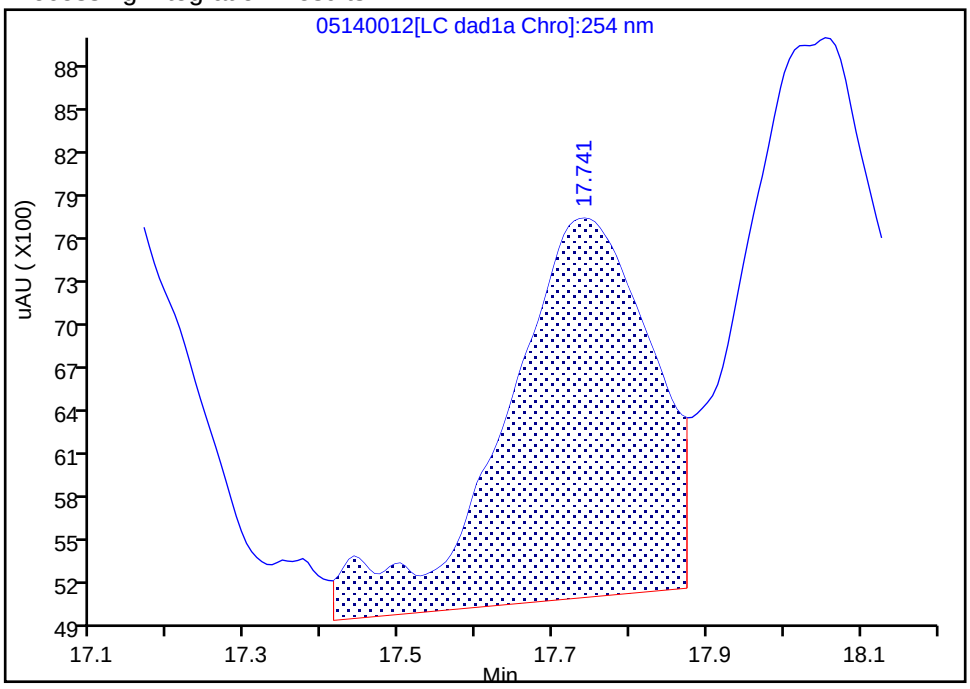
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

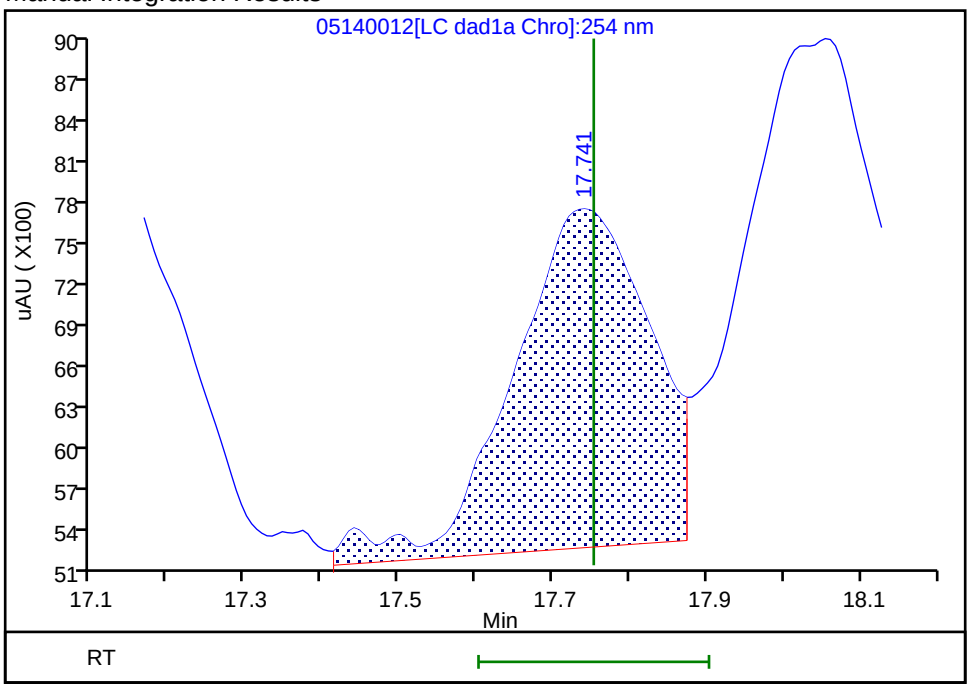
Processing Integration Results

RT: 17.74
Area: 34712
Amount: 0.117045
Amount Units: ug/ml



Manual Integration Results

RT: 17.74
Area: 30586
Amount: 0.102525
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:21:48

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

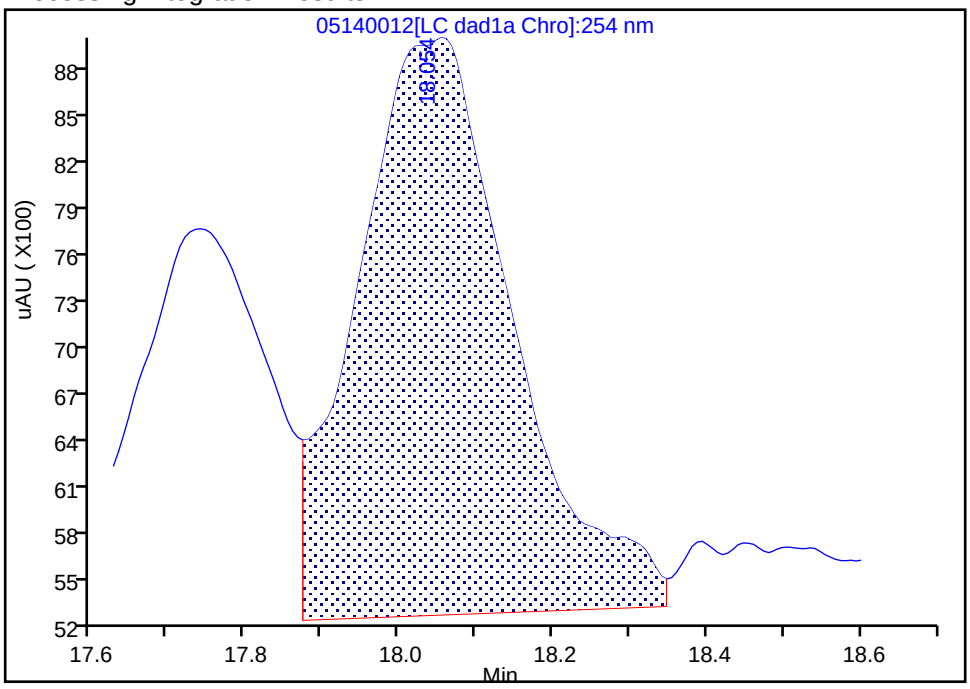
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

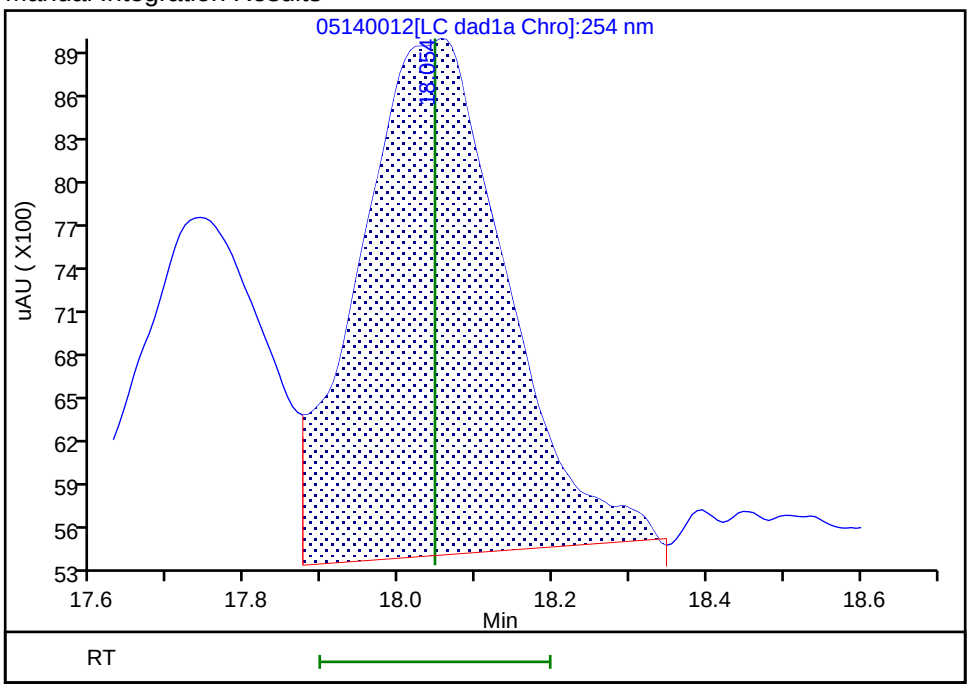
Processing Integration Results

RT: 18.05
Area: 52538
Amount: 0.110599
Amount Units: ug/ml



Manual Integration Results

RT: 18.05
Area: 47526
Amount: 0.102160
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:21:48

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

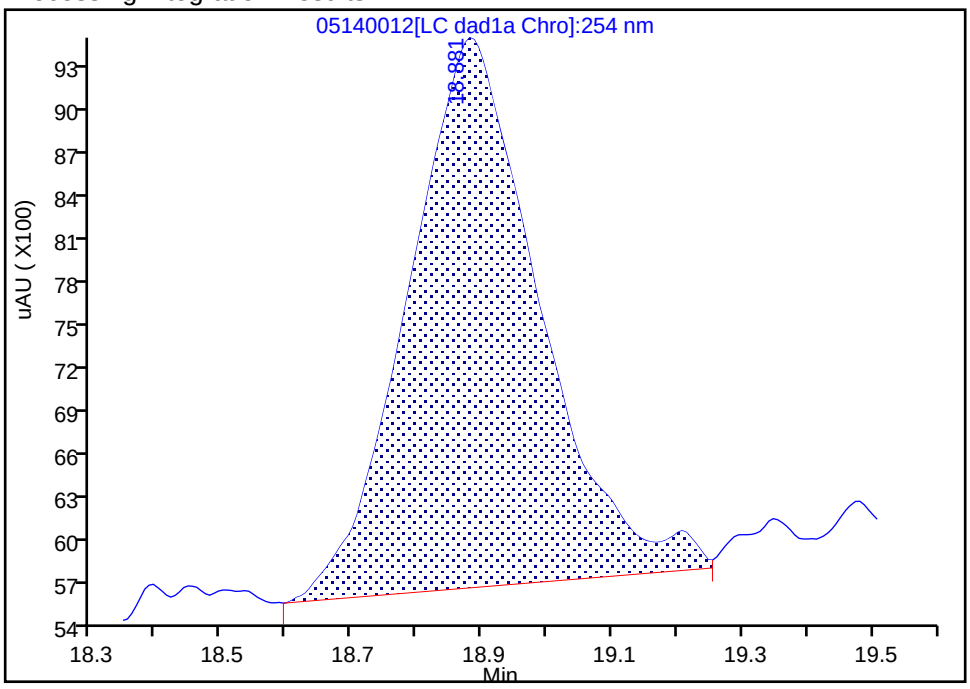
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

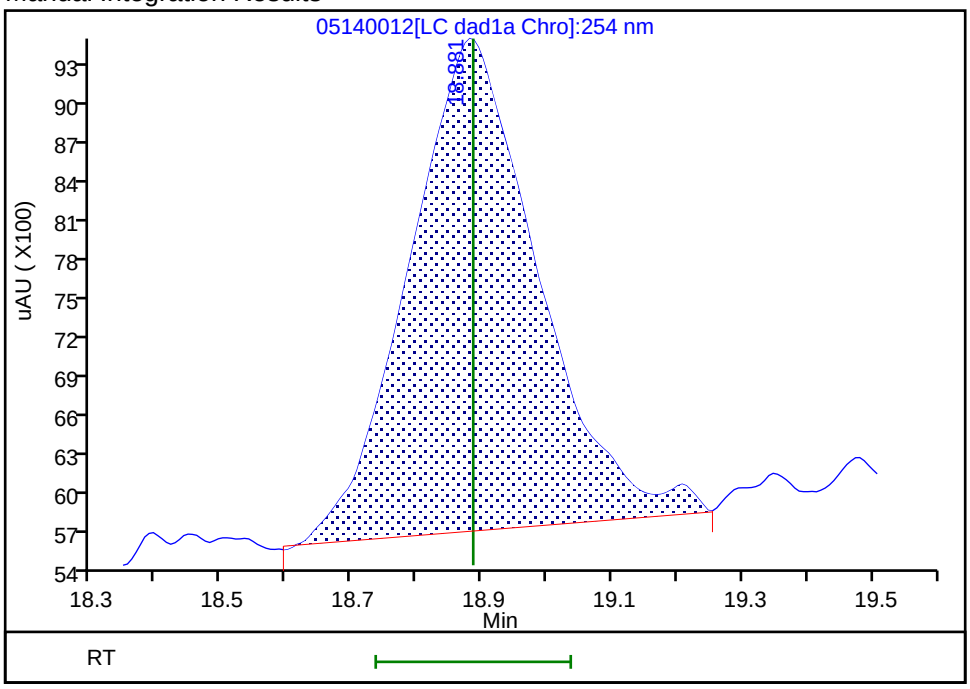
Processing Integration Results

RT: 18.88
Area: 52433
Amount: 0.109995
Amount Units: ug/ml



Manual Integration Results

RT: 18.88
Area: 51028
Amount: 0.108007
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:21:48

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

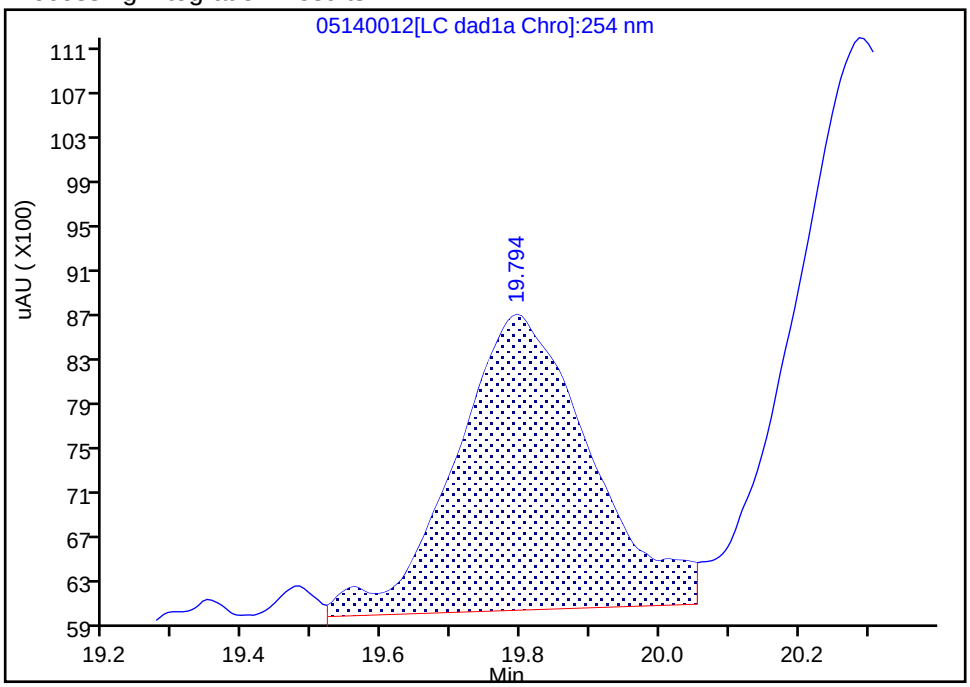
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

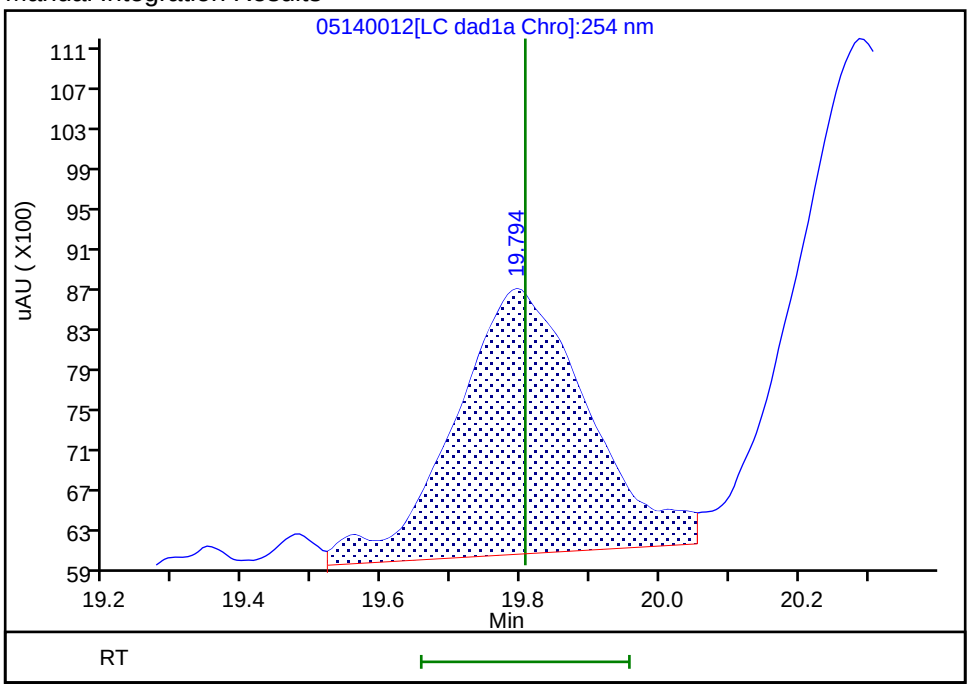
Processing Integration Results

RT: 19.79
Area: 35123
Amount: 0.102517
Amount Units: ug/ml



Manual Integration Results

RT: 19.79
Area: 34659
Amount: 0.104499
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:21:48

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

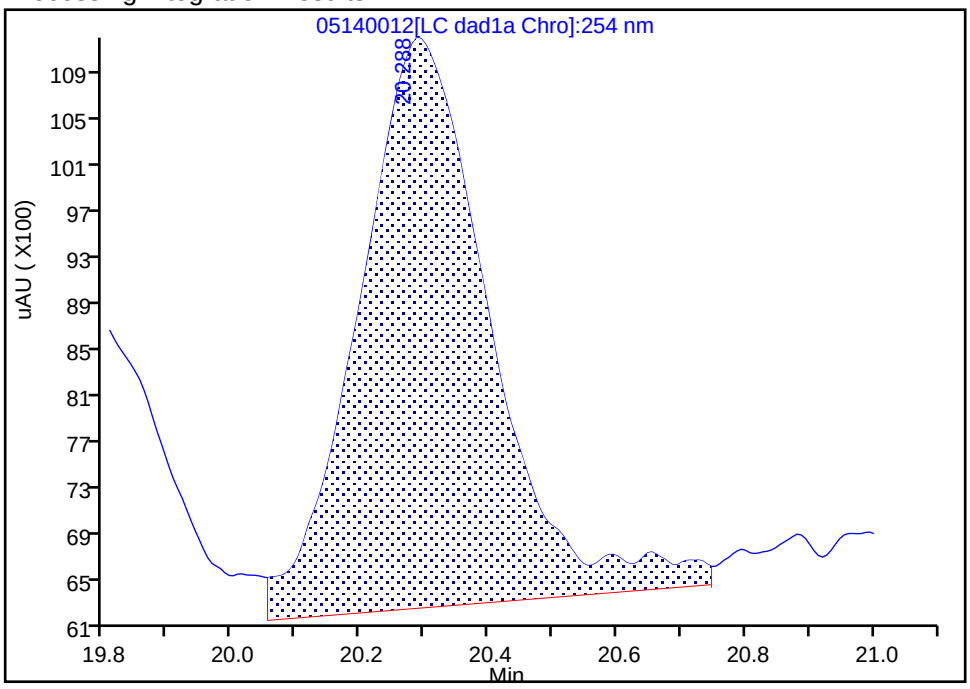
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d				
Injection Date:	14-May-2020 19:11:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

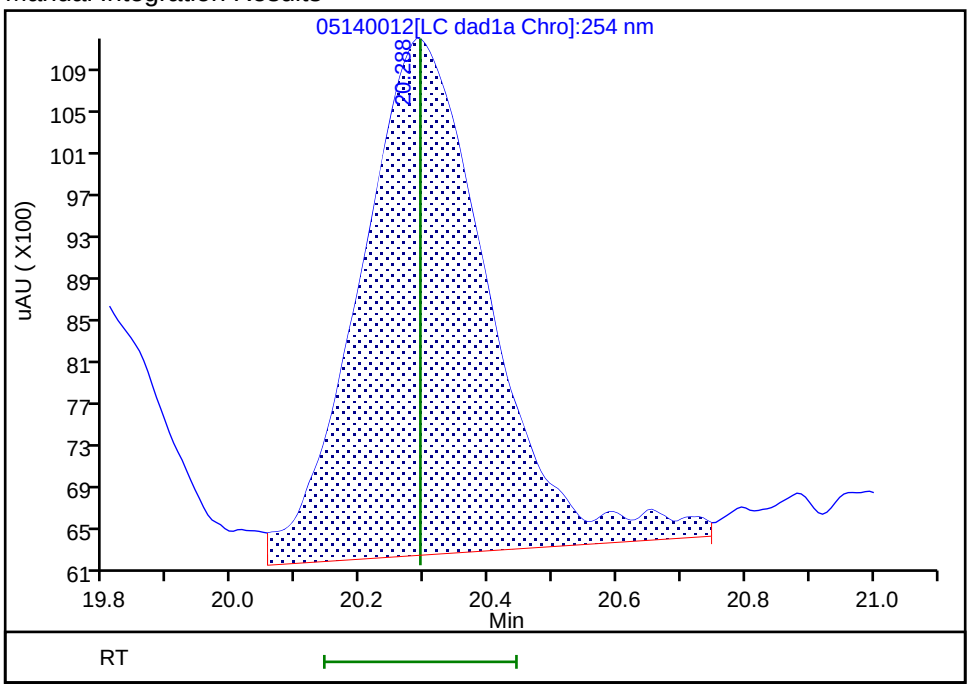
Processing Integration Results

RT: 20.29
Area: 69455
Amount: 0.105715
Amount Units: ug/ml



Manual Integration Results

RT: 20.29
Area: 67500
Amount: 0.105450
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:21:48

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

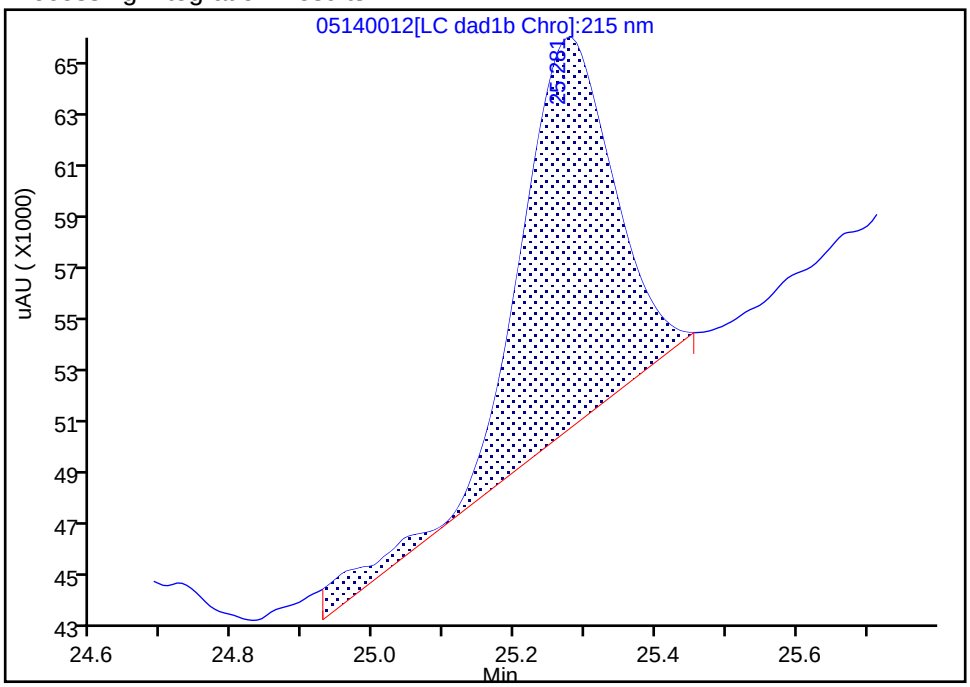
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140012.d
Injection Date: 14-May-2020 19:11:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 4
Client ID:
Operator ID: CB ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Detector LC DAD1B, 215 nm

24 PETN, CAS: 78-11-5

Signal: 1

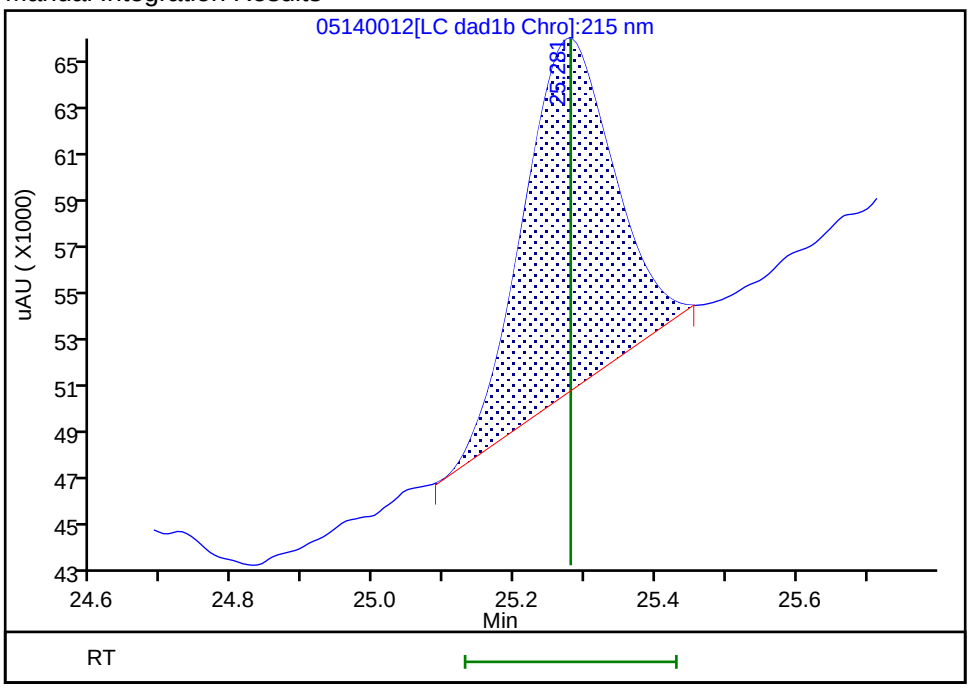
Processing Integration Results

RT: 25.28
Area: 139443
Amount: 1.011611
Amount Units: ug/ml



Manual Integration Results

RT: 25.28
Area: 132172
Amount: 0.810643
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:24:59
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140013.D
Lims ID: IC FULL 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-May-2020 19:46:37 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC FULL 3
Misc. Info.: 280-0091518-013
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:00:58 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 15-May-2020 11:22:17

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.357	4.366	-0.009	22969	0.0500	0.0535	
2 2,4-diamino-6-nitrotoluene	1	4.851	4.880	-0.029	16562	0.0500	0.0464	
5 2,4,6-Trinitrophenol	1	6.331	6.300	0.031	9462	0.0500	0.0488	a
6 HMX	1	6.984	6.986	-0.002	12646	0.0500	0.0414	
8 RDX	1	9.184	9.173	0.011	15119	0.0500	0.0619	
9 Nitrobenzene	1	12.110	12.106	0.004	28424	0.0502	0.0647	
$ 10 1,2-Dinitrobenzene	1	13.037	13.040	-0.003	18744	0.0500	0.0610	M
11 3,5-Dinitroaniline	1	14.890	14.886	0.004	27916	0.0500	0.0518	M
12 1,3-Dinitrobenzene	1	15.544	15.553	-0.009	37161	0.0501	0.0551	M
13 Nitroglycerin	2	15.844	15.853	-0.009	64042	0.5000	0.5050	M
14 o-Nitrotoluene	1	16.550	16.533	0.017	16003	0.0500	0.0586	M
15 p-Nitrotoluene	1	16.837	16.820	0.017	15492	0.0501	0.0643	M
16 4-Amino-2,6-dinitrotoluene	1	17.157	17.146	0.011	22118	0.0501	0.0641	M
17 m-Nitrotoluene	1	17.724	17.753	-0.029	19280	0.0501	0.0646	M
18 2-Amino-4,6-dinitrotoluene	1	18.030	18.046	-0.016	28982	0.0502	0.0623	M
19 1,3,5-Trinitrobenzene	1	18.864	18.886	-0.022	26649	0.0501	0.0564	M
20 2,6-Dinitrotoluene	1	19.817	19.806	0.011	19107	0.0502	0.0507	M
21 2,4-Dinitrotoluene	1	20.290	20.293	-0.003	37302	0.0502	0.0583	M
22 Tetryl	1	23.557	23.553	0.004	20202	0.0501	0.0548	
23 2,4,6-Trinitrotoluene	1	24.637	24.653	-0.016	28366	0.0502	0.0628	
24 PETN	2	25.277	25.280	-0.003	102120	0.5000	0.5782	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8330IntermStk_00064	Amount Added:	5.00	Units: uL
8330_ADDs_00026	Amount Added:	2.50	Units: uL

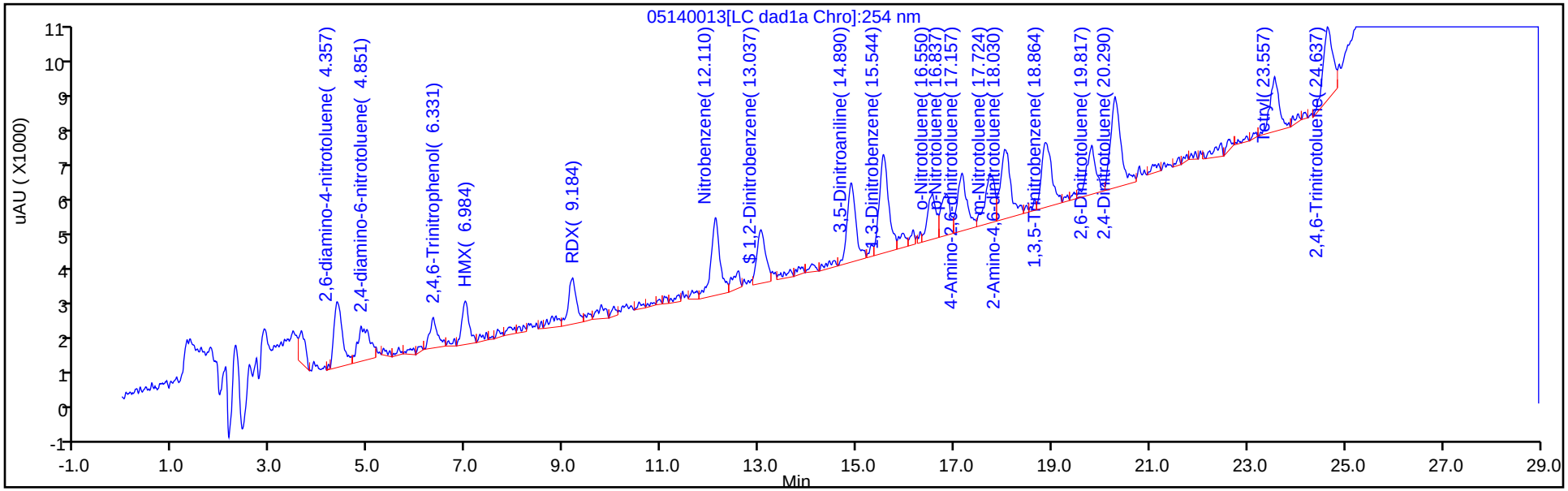
Report Date: 15-May-2020 12:00:58 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

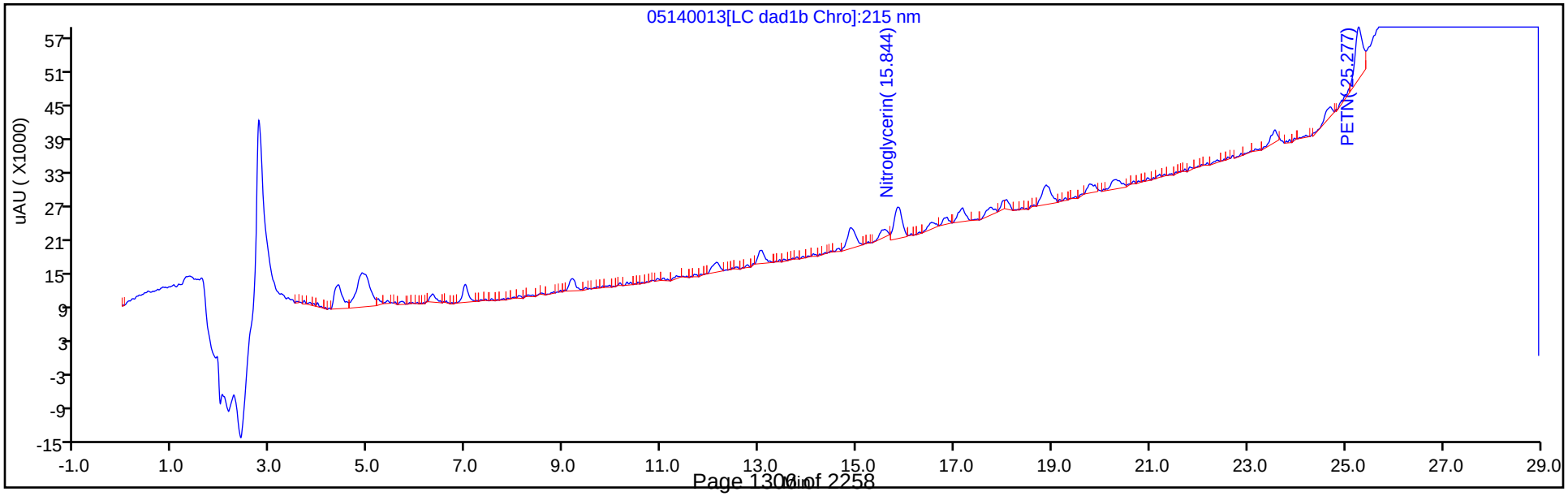
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d

Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC FULL 3			Worklist Smp#:	13
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

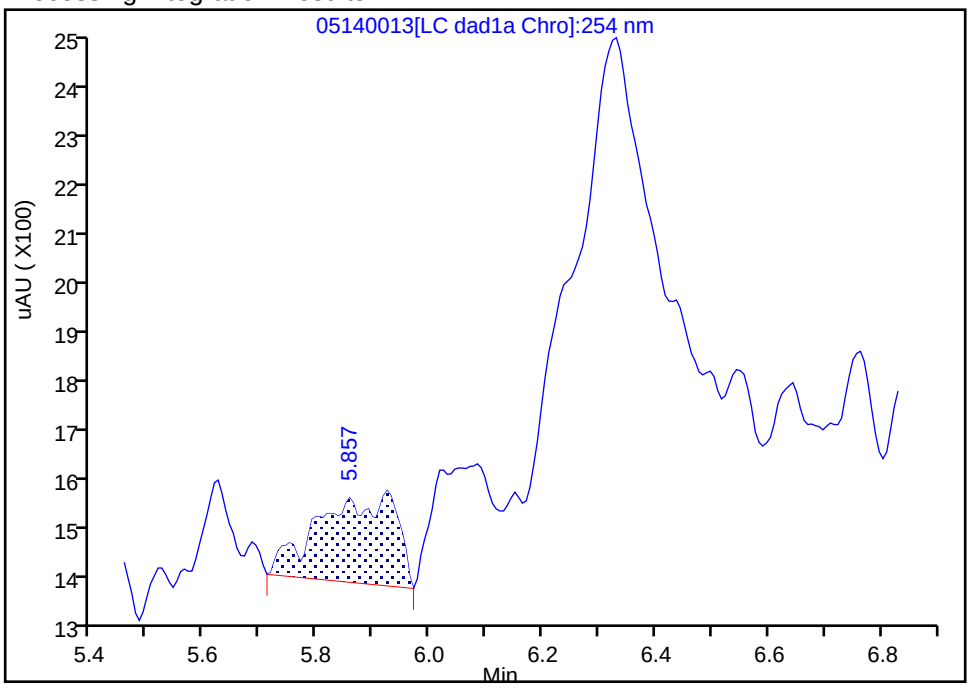
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

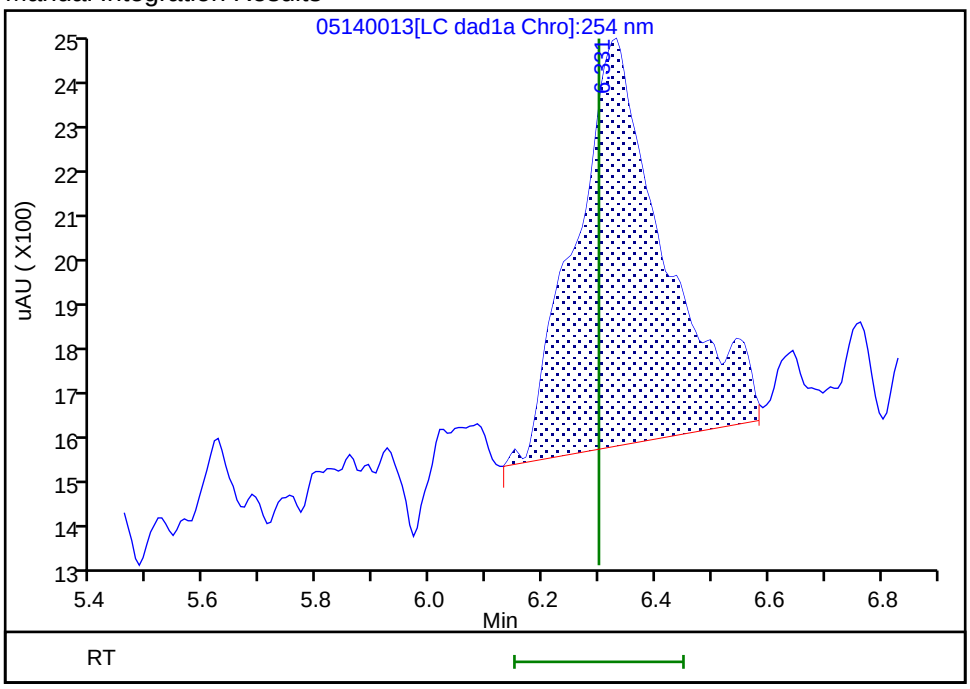
Processing Integration Results

RT: 5.86
Area: 1615
Amount: 0.011701
Amount Units: ug/ml



Manual Integration Results

RT: 6.33
Area: 9462
Amount: 0.048821
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:16
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

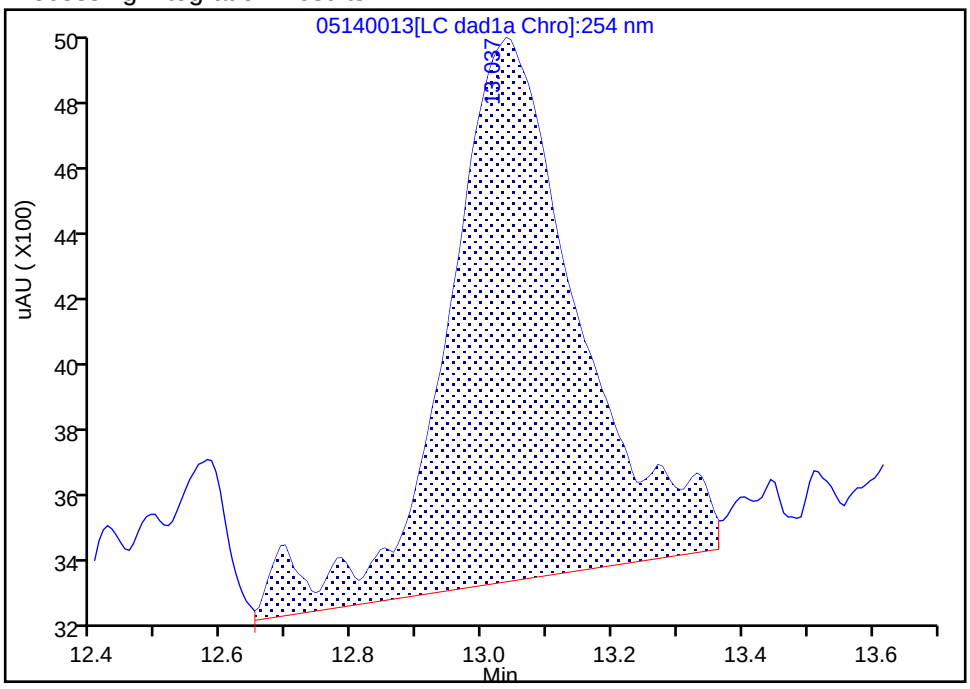
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

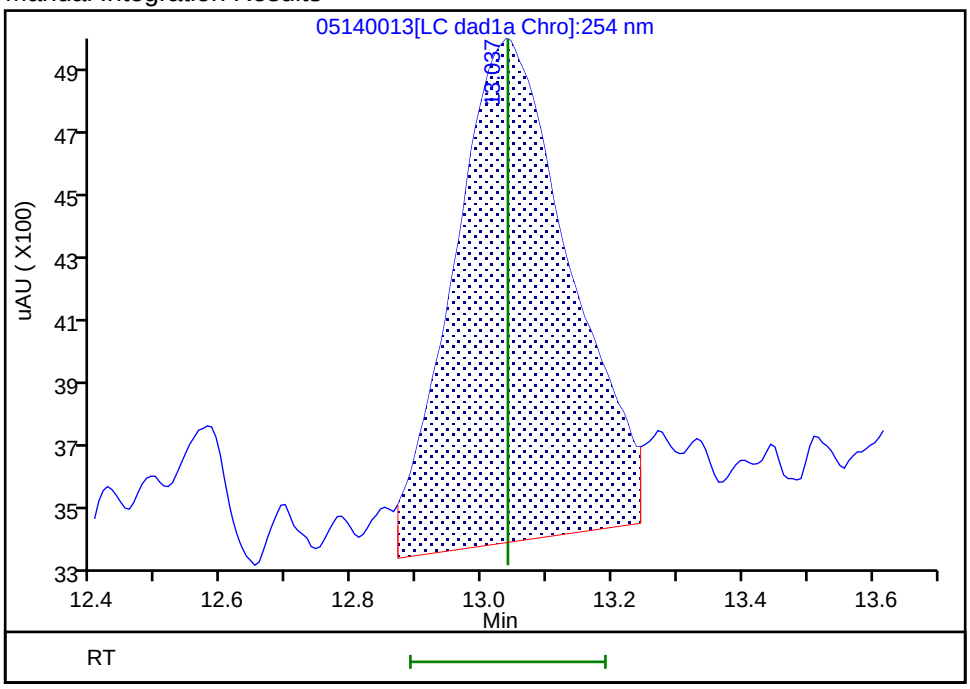
Processing Integration Results

RT: 13.04
Area: 21320
Amount: 0.066490
Amount Units: ug/ml



Manual Integration Results

RT: 13.04
Area: 18744
Amount: 0.060979
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:35:23

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

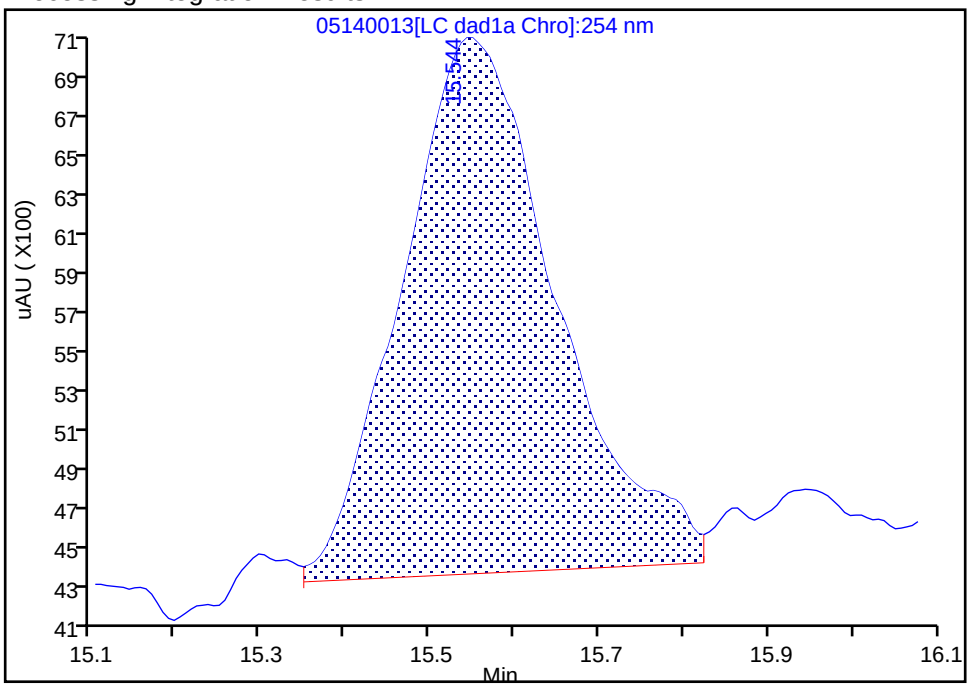
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

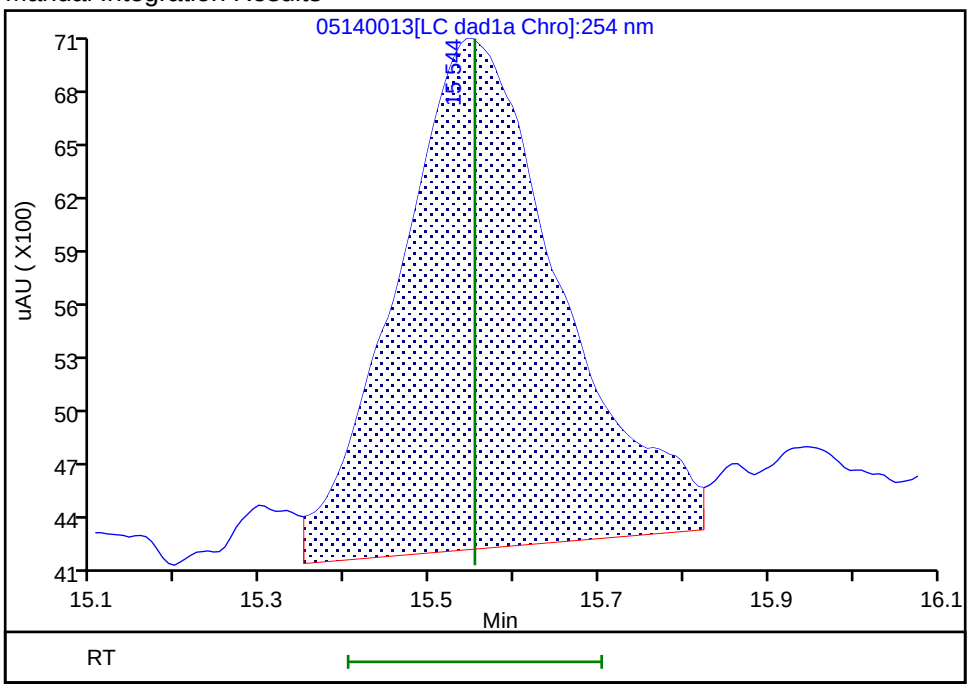
Processing Integration Results

RT: 15.54
Area: 33327
Amount: 0.049753
Amount Units: ug/ml



Manual Integration Results

RT: 15.54
Area: 37161
Amount: 0.055120
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

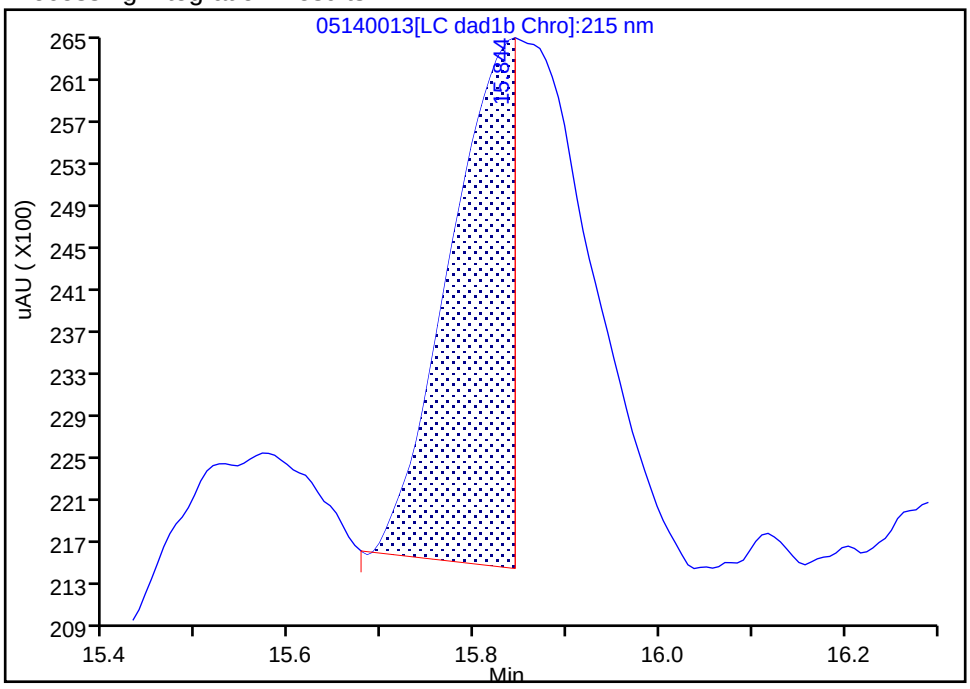
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d
Injection Date: 14-May-2020 19:46:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 3
Client ID:
Operator ID: CB ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Detector LC DAD1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

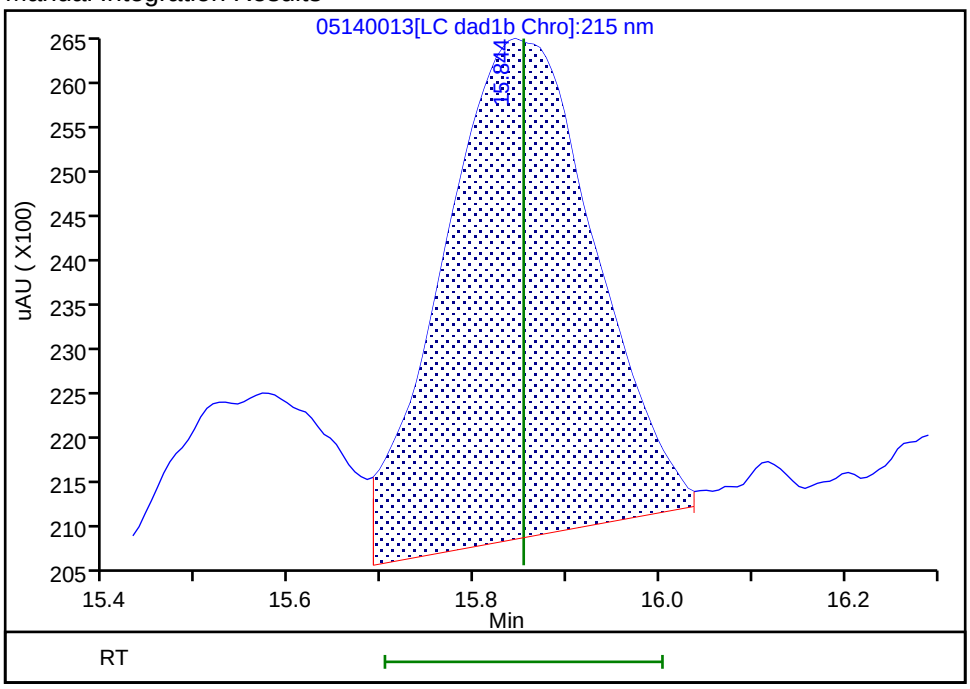
Processing Integration Results

RT: 15.84
Area: 23753
Amount: 0.203485
Amount Units: ug/ml



Manual Integration Results

RT: 15.84
Area: 64042
Amount: 0.505050
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:32:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

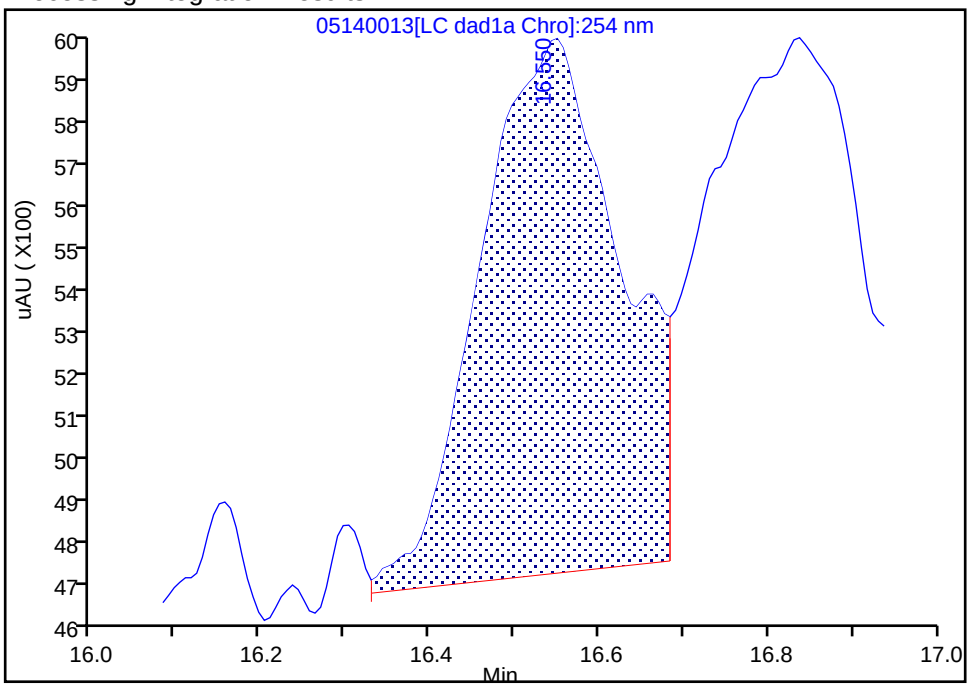
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

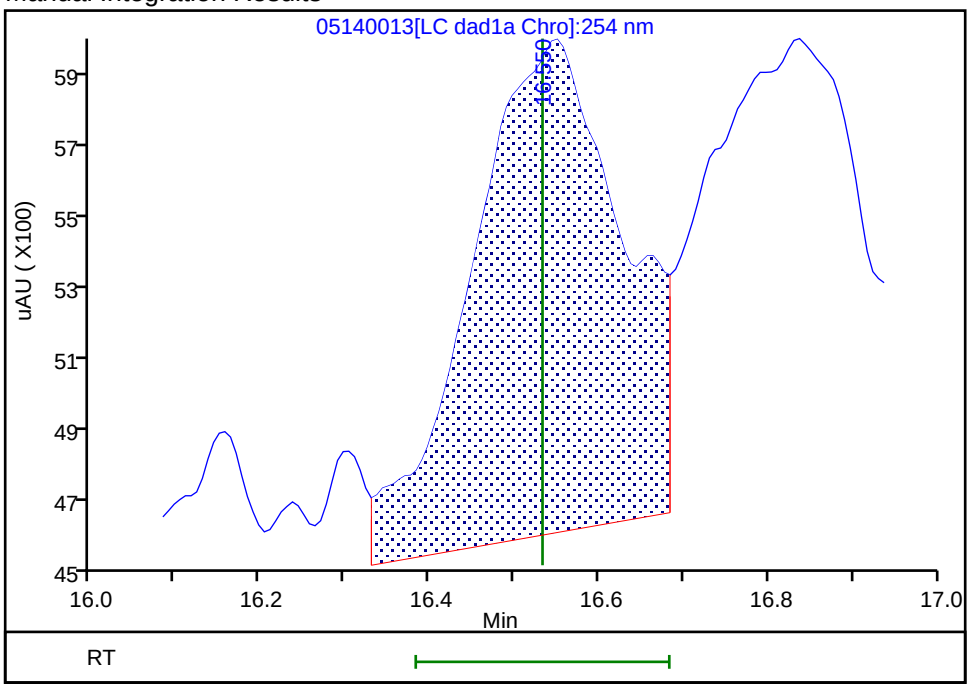
Processing Integration Results

RT: 16.55
Area: 13586
Amount: 0.049463
Amount Units: ug/ml



Manual Integration Results

RT: 16.55
Area: 16003
Amount: 0.058627
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

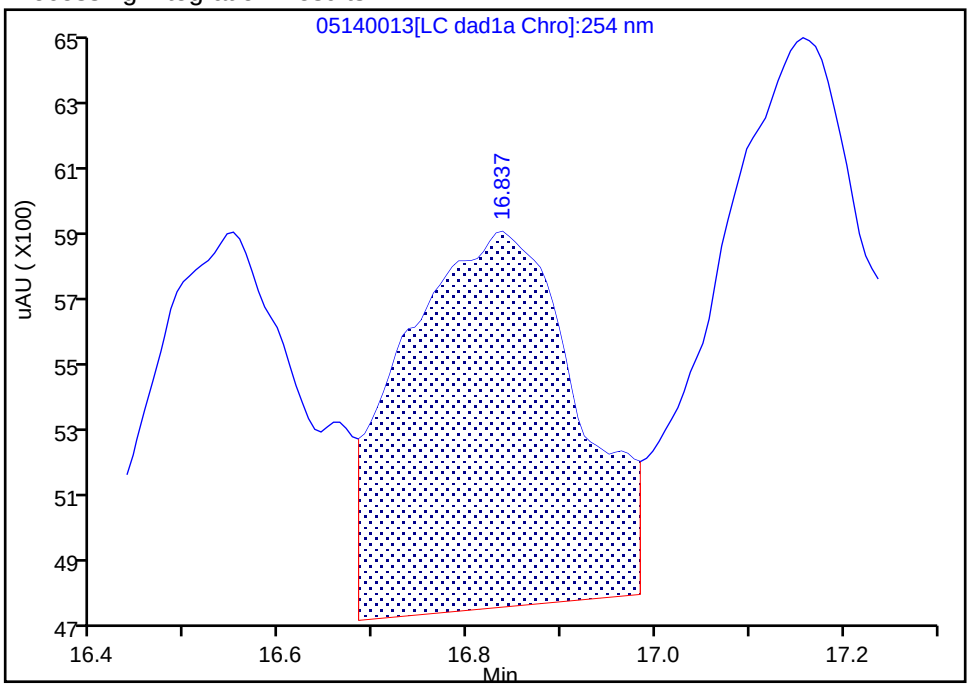
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

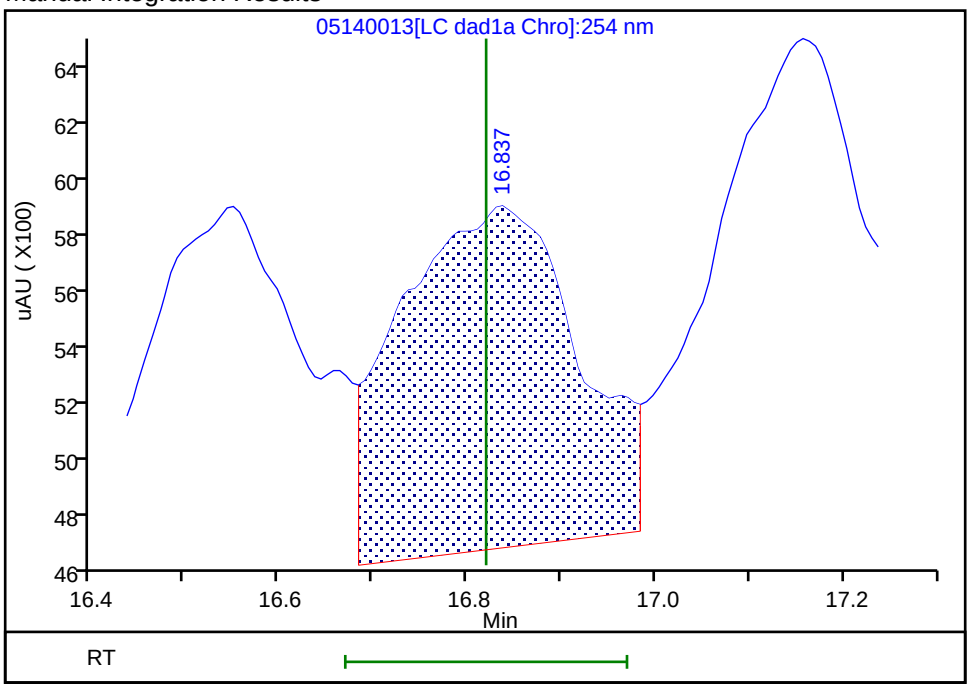
Processing Integration Results

RT: 16.84
Area: 14394
Amount: 0.057129
Amount Units: ug/ml



Manual Integration Results

RT: 16.84
Area: 15492
Amount: 0.064314
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

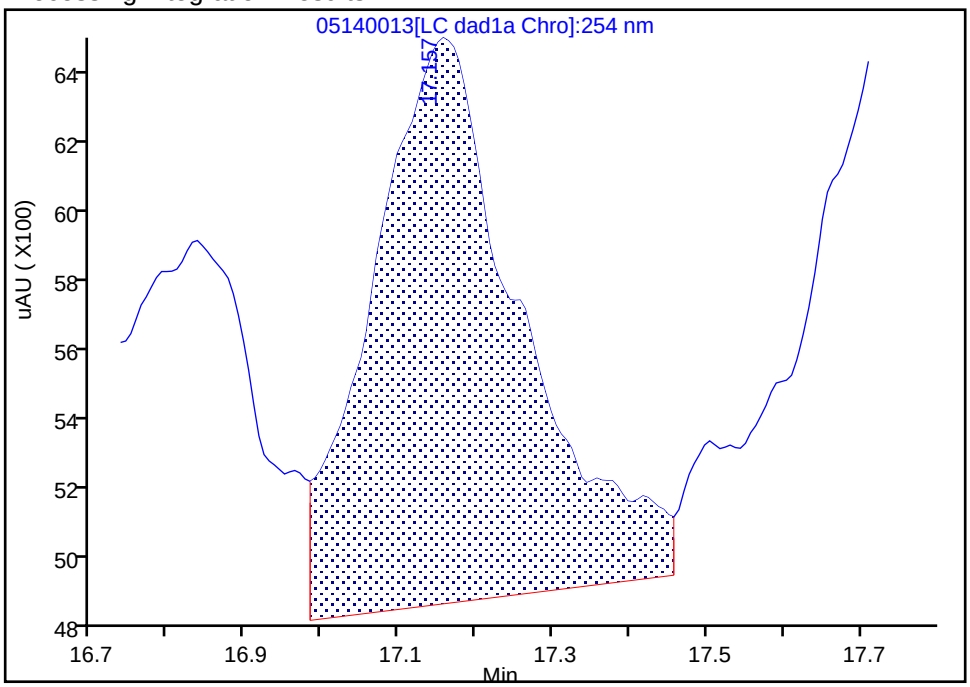
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

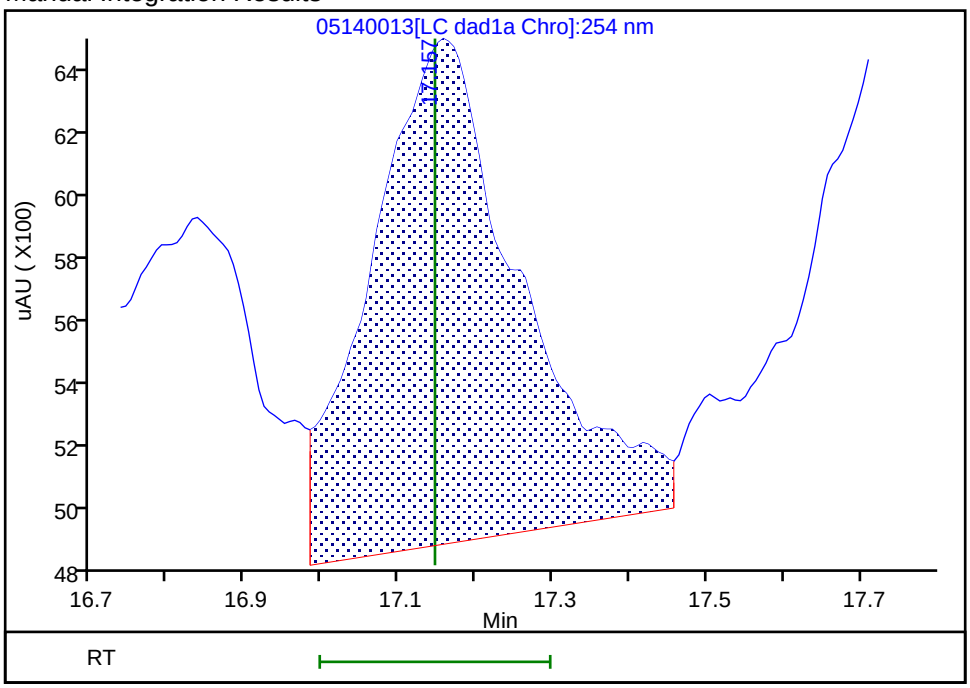
Processing Integration Results

RT: 17.16
Area: 21749
Amount: 0.062679
Amount Units: ug/ml



Manual Integration Results

RT: 17.16
Area: 22118
Amount: 0.064067
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

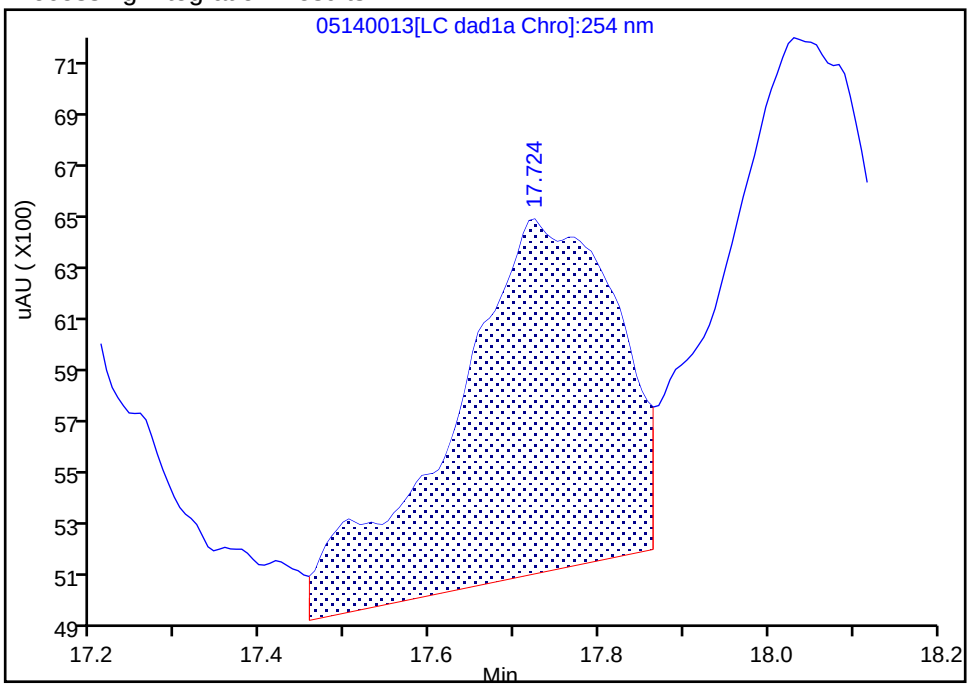
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

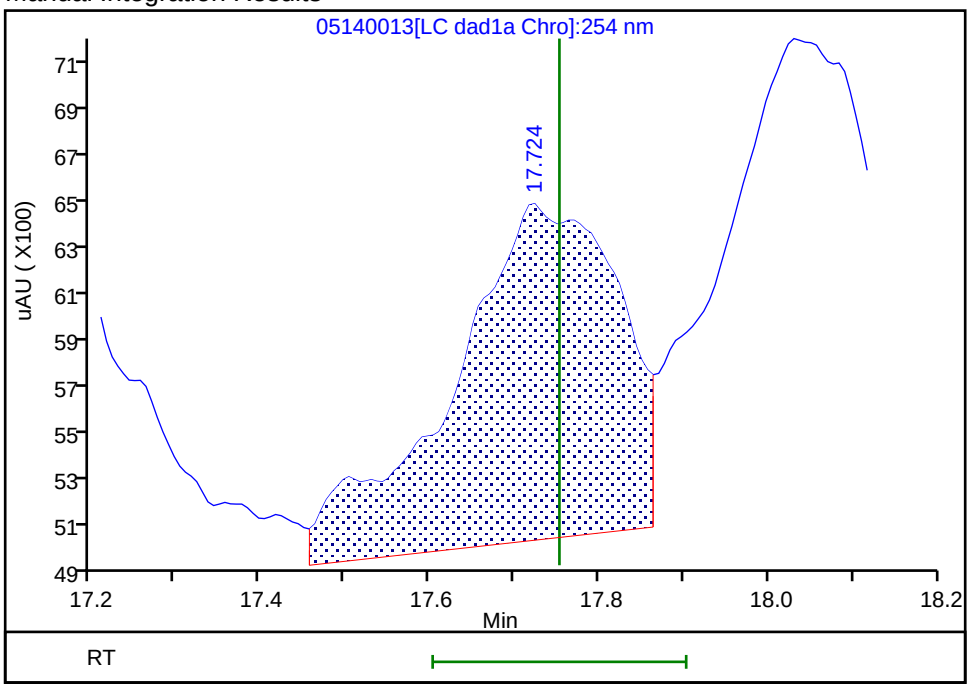
Processing Integration Results

RT: 17.72
Area: 18317
Amount: 0.062732
Amount Units: ug/ml



Manual Integration Results

RT: 17.72
Area: 19280
Amount: 0.064627
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:04

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

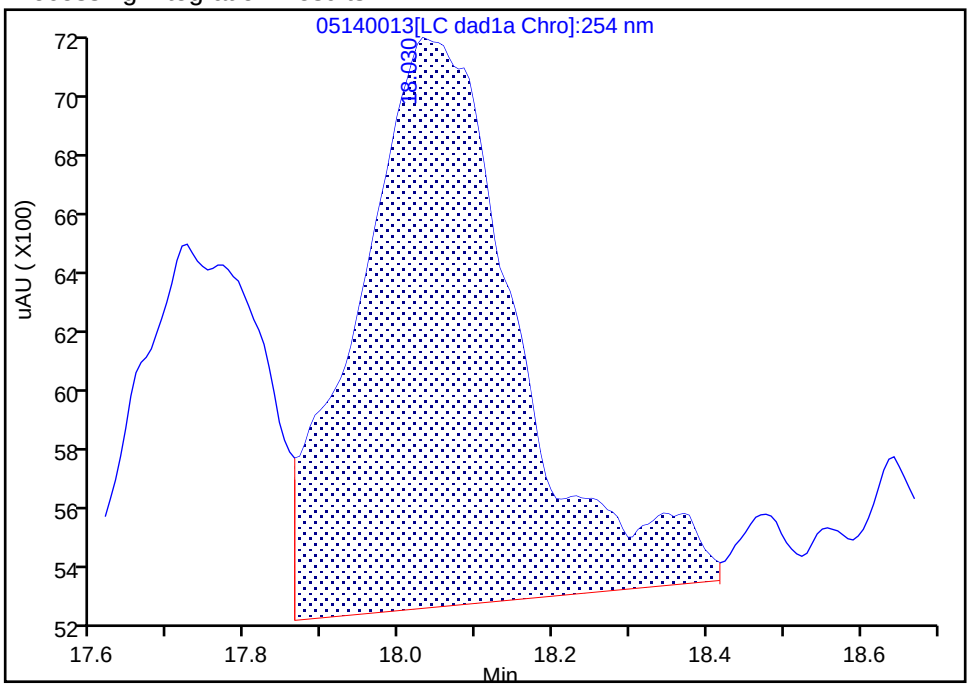
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

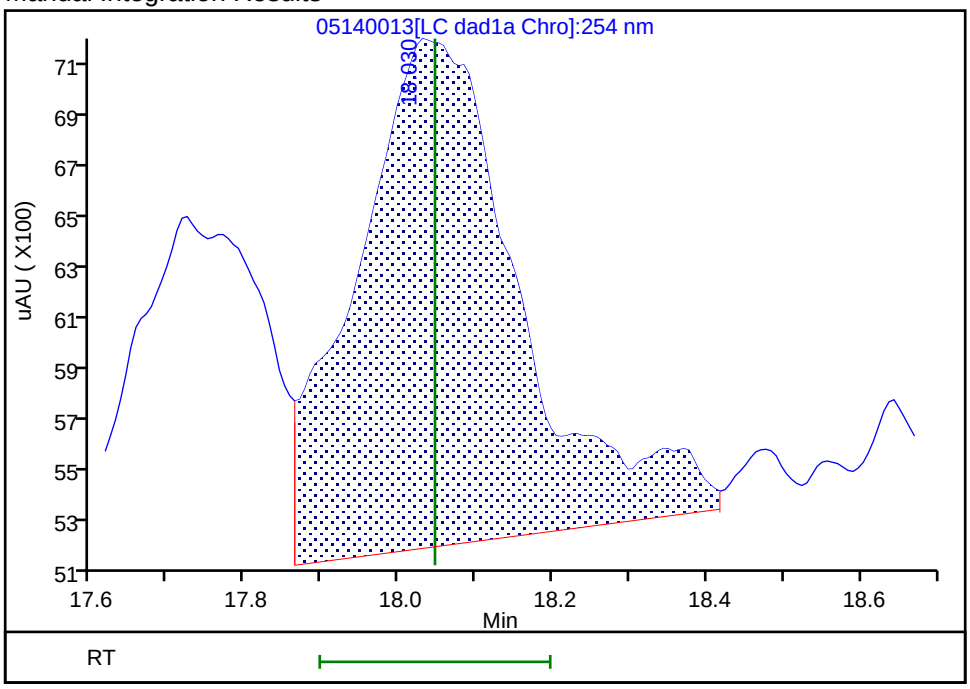
Processing Integration Results

RT: 18.03
Area: 27239
Amount: 0.055134
Amount Units: ug/ml



Manual Integration Results

RT: 18.03
Area: 28982
Amount: 0.062299
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:04

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

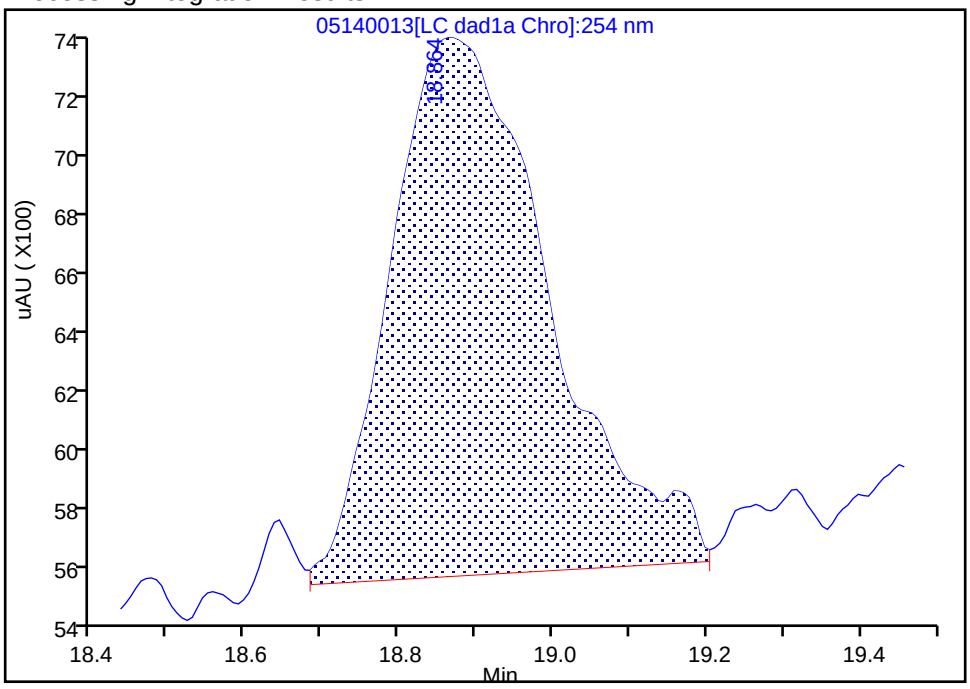
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

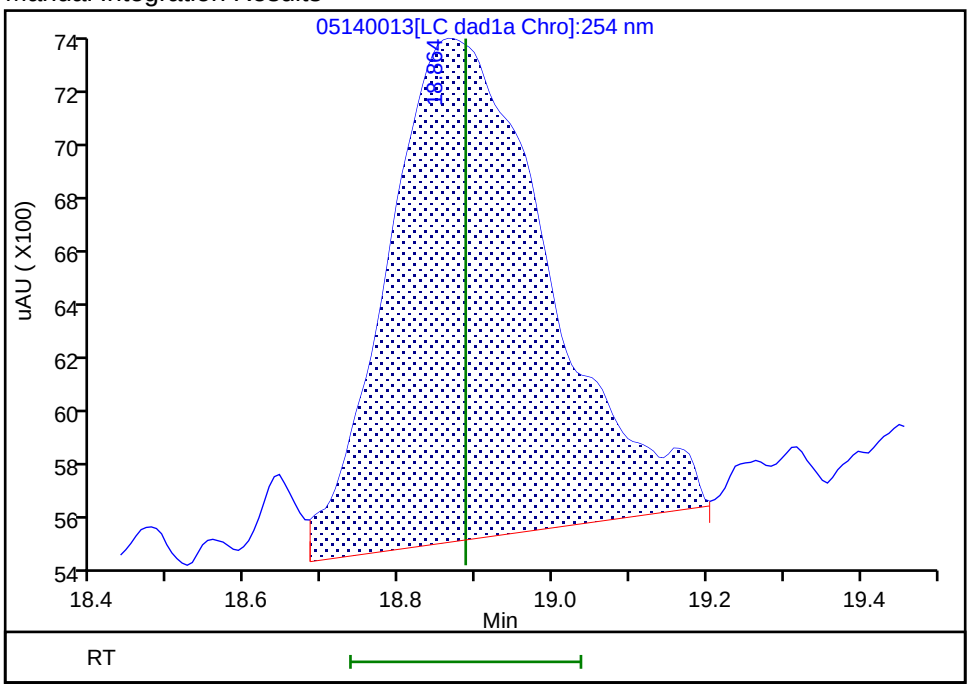
Processing Integration Results

RT: 18.86
Area: 25370
Amount: 0.053396
Amount Units: ug/ml



Manual Integration Results

RT: 18.86
Area: 26649
Amount: 0.056406
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:04

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

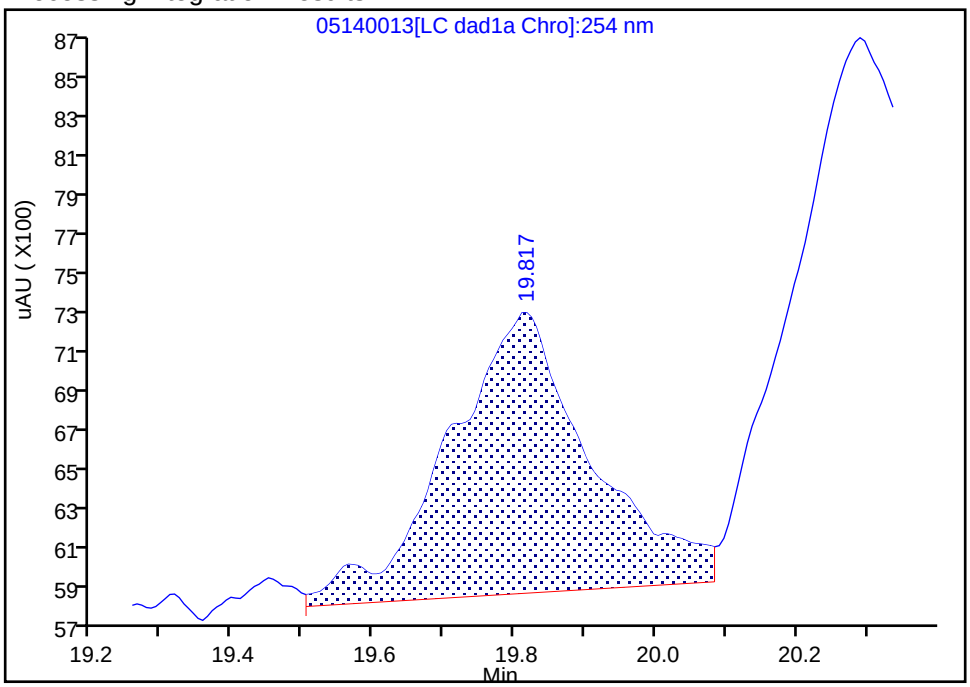
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

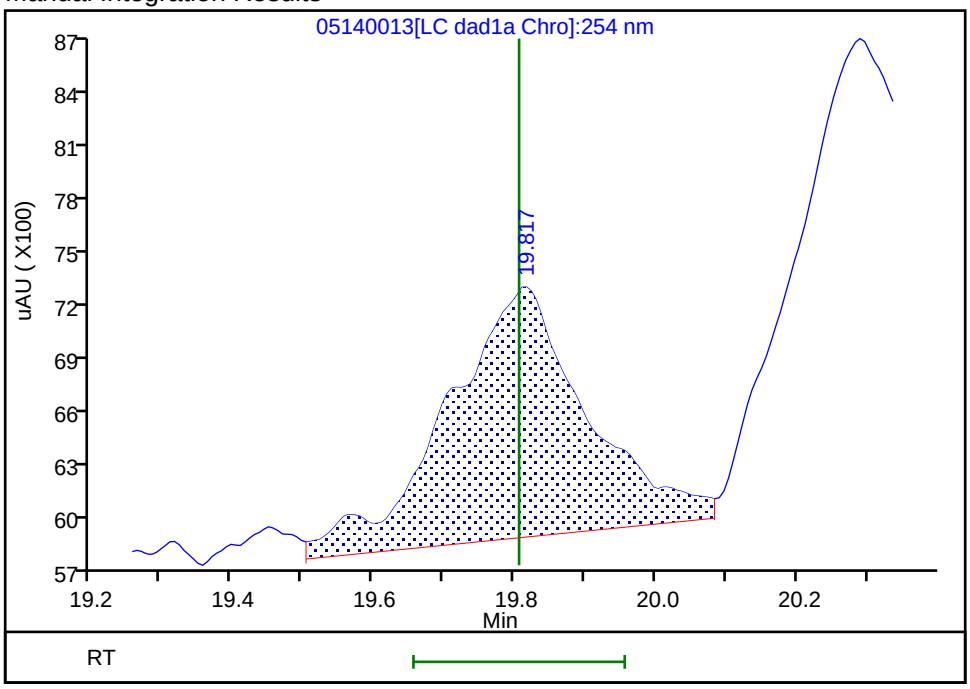
Processing Integration Results

RT: 19.82
Area: 19664
Amount: 0.057481
Amount Units: ug/ml



Manual Integration Results

RT: 19.82
Area: 19107
Amount: 0.050727
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

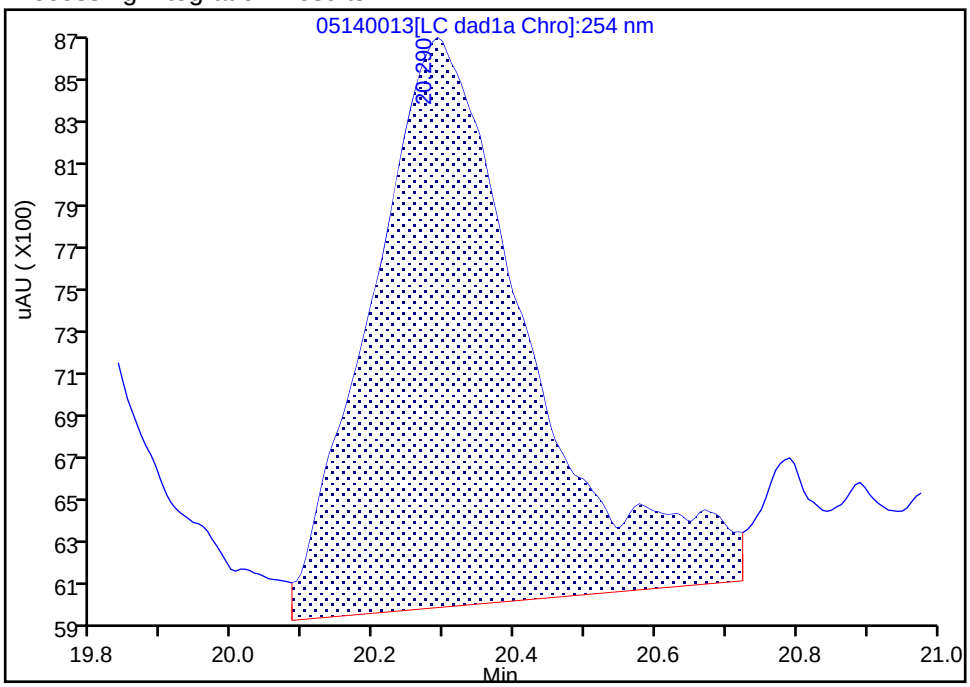
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d				
Injection Date:	14-May-2020 19:46:37	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

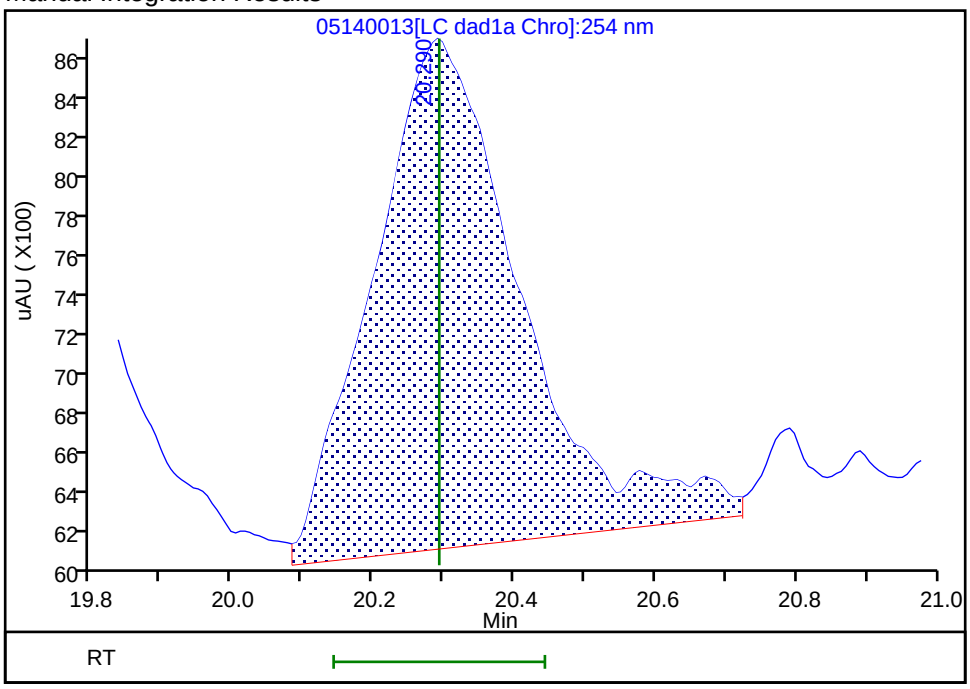
Processing Integration Results

RT: 20.29
Area: 41123
Amount: 0.062799
Amount Units: ug/ml



Manual Integration Results

RT: 20.29
Area: 37302
Amount: 0.058274
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:04
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

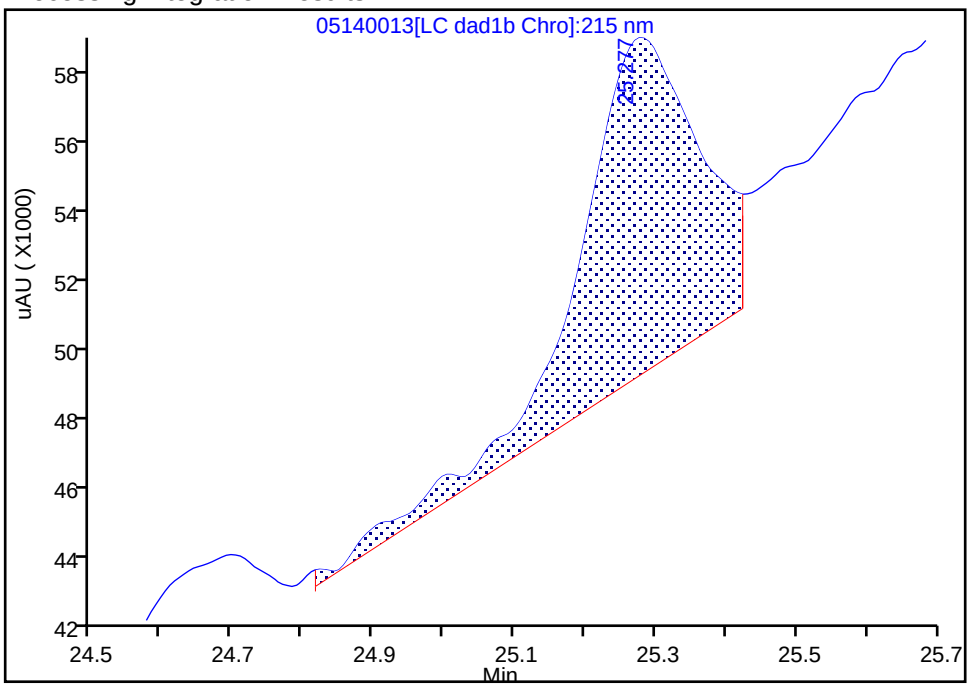
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140013.d
Injection Date: 14-May-2020 19:46:37 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 3
Client ID:
Operator ID: CB ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Detector LC DAD1B, 215 nm

24 PETN, CAS: 78-11-5

Signal: 1

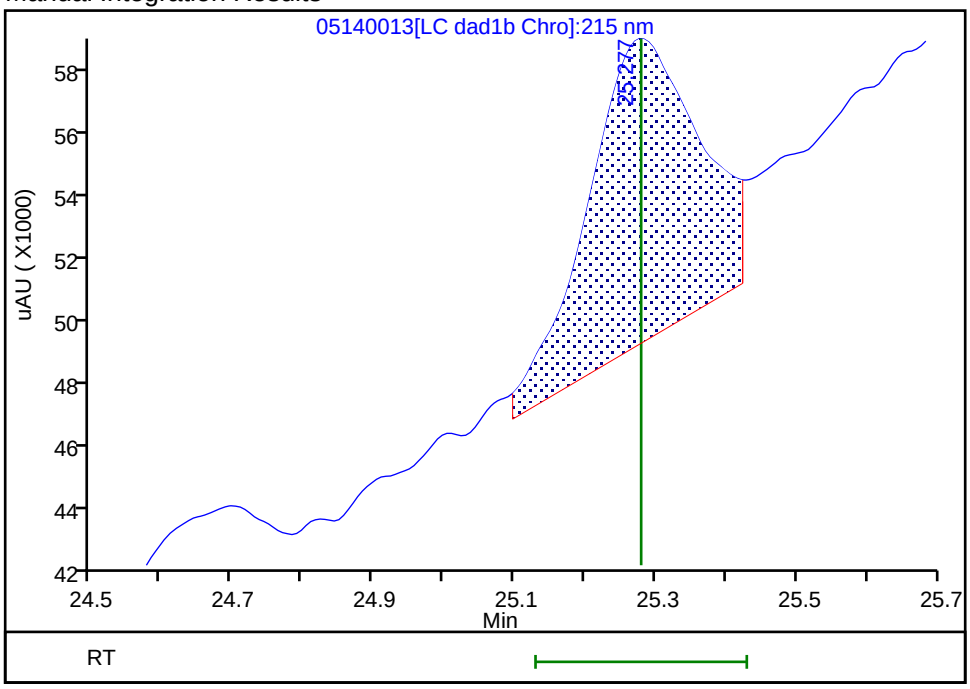
Processing Integration Results

RT: 25.28
Area: 109947
Amount: 0.773174
Amount Units: ug/ml



Manual Integration Results

RT: 25.28
Area: 102120
Amount: 0.578199
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:24:48
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140014.D
Lims ID: IC FULL 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 14-May-2020 20:21:33 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC FULL 2
Misc. Info.: 280-0091518-014
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:00:58 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 15-May-2020 11:22:32

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.375	4.366	0.009	10106	0.0200	0.0235	
2 2,4-diamino-6-nitrotoluene	1	4.855	4.880	-0.025	9147	0.0200	0.0152	
5 2,4,6-Trinitrophenol	1	6.322	6.300	0.022	5683	0.0250	0.0293	a
6 HMX	1	6.982	6.986	-0.004	10018	0.0250	0.0265	
8 RDX	1	9.095	9.173	-0.078	6286	0.0250	0.0257	
9 Nitrobenzene	1	12.095	12.106	-0.011	10325	0.0251	0.0235	
$ 10 1,2-Dinitrobenzene	1	13.022	13.040	-0.018	8436	0.0250	0.0238	M
11 3,5-Dinitroaniline	1	14.862	14.886	-0.024	12305	0.0200	0.0197	
12 1,3-Dinitrobenzene	1	15.542	15.553	-0.011	16280	0.0251	0.0241	
13 Nitroglycerin	2	15.855	15.853	0.002	26546	0.2500	0.2093	
14 o-Nitrotoluene	1	16.515	16.533	-0.018	6812	0.0250	0.0250	
15 p-Nitrotoluene	1	16.795	16.820	-0.025	5374	0.0251	0.0223	
16 4-Amino-2,6-dinitrotoluene	1	17.155	17.146	0.009	9369	0.0250	0.0271	
17 m-Nitrotoluene	1	17.748	17.753	-0.005	6920	0.0250	0.0232	
18 2-Amino-4,6-dinitrotoluene	1	18.048	18.046	0.002	10376	0.0251	0.0223	
19 1,3,5-Trinitrobenzene	1	18.855	18.886	-0.031	10822	0.0251	0.0229	
20 2,6-Dinitrotoluene	1	19.828	19.806	0.022	11618	0.0251	0.0248	
21 2,4-Dinitrotoluene	1	20.295	20.293	0.002	16811	0.0251	0.0263	
22 Tetryl	1	23.529	23.553	-0.024	9874	0.0251	0.0268	
23 2,4,6-Trinitrotoluene	1	24.682	24.653	0.029	11547	0.0251	0.0209	
24 PETN	2	25.282	25.280	0.002	20453	0.2500	-0.0535	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8330IntermStk_00064	Amount Added:	2.50	Units: uL
8330_ADDs_00026	Amount Added:	1.00	Units: uL

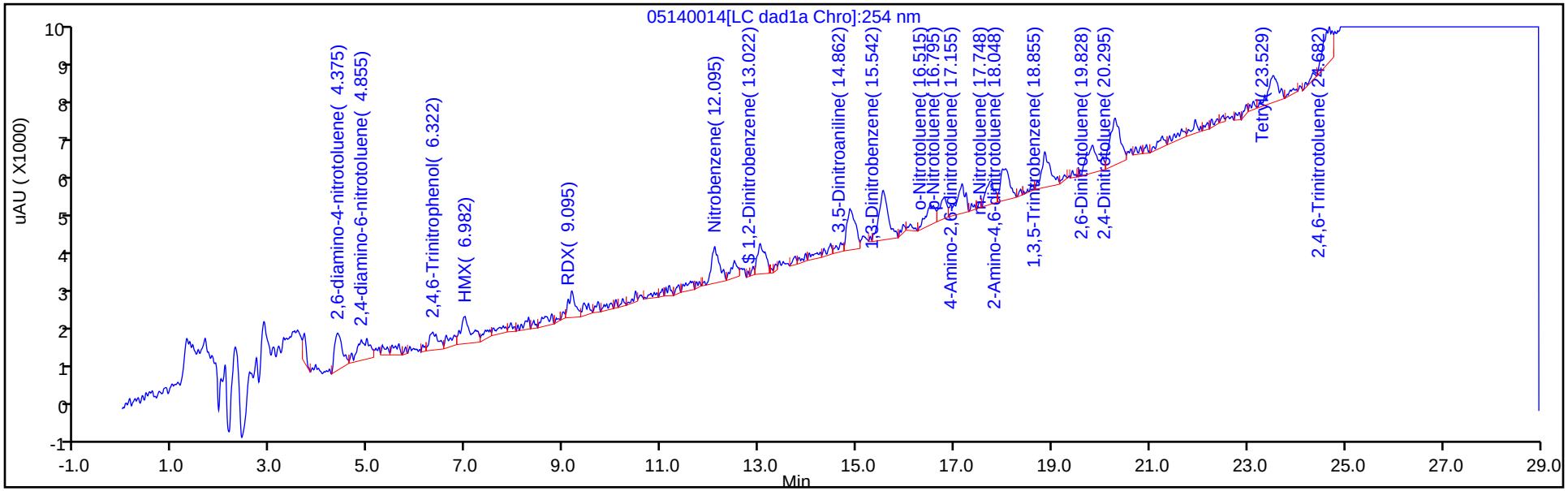
Report Date: 15-May-2020 12:00:59 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

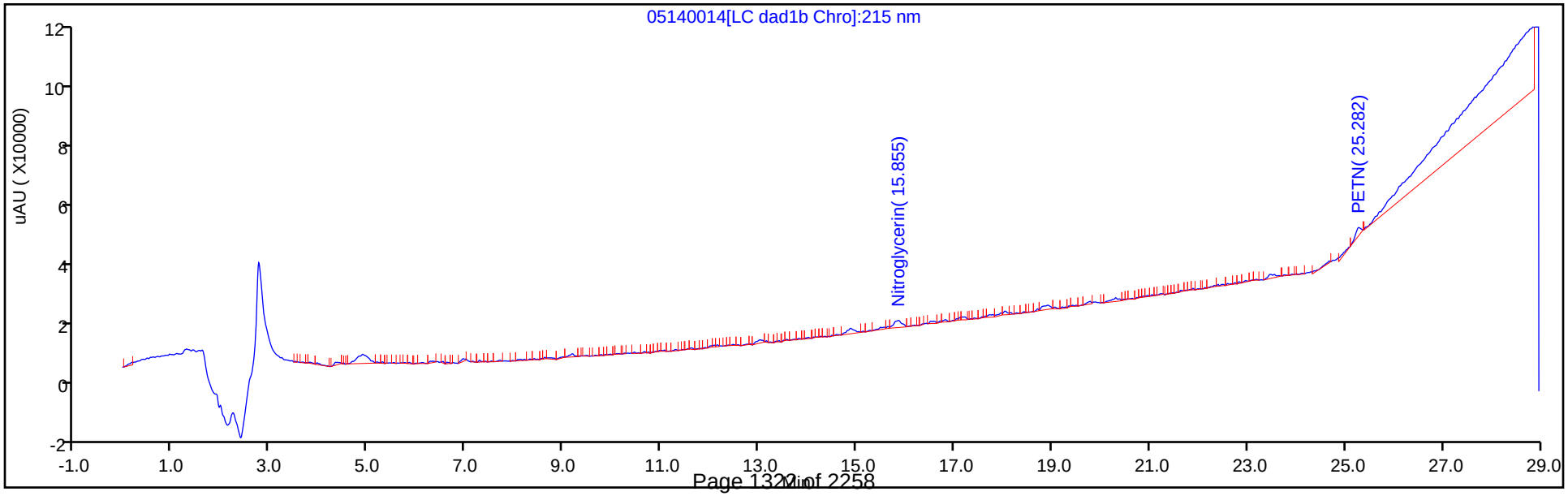
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140014.d

Injection Date:	14-May-2020 20:21:33	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC FULL 2			Worklist Smp#:	14
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

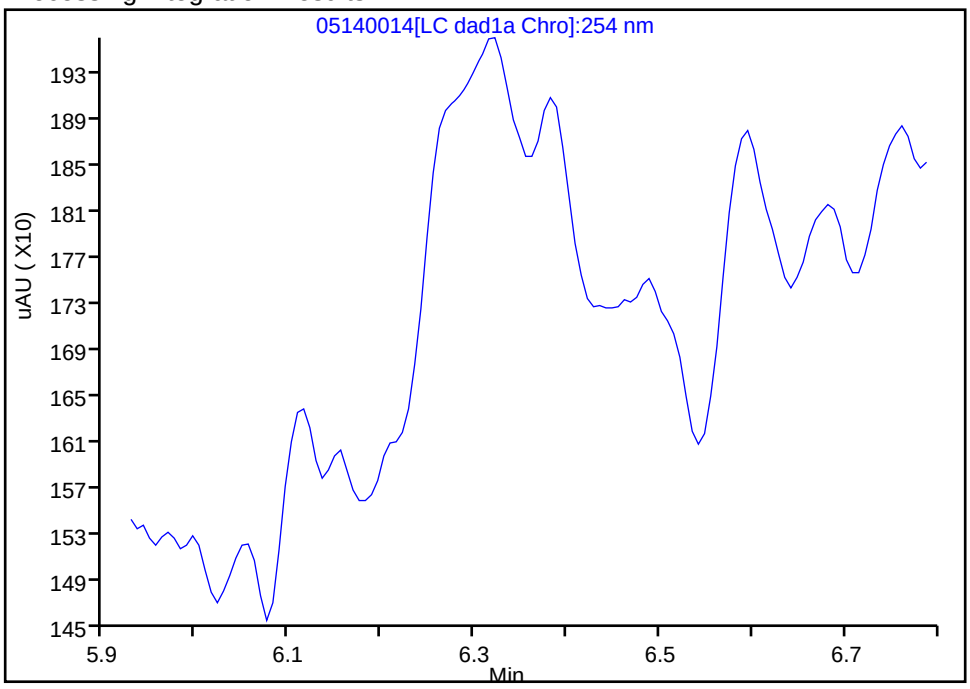
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140014.d				
Injection Date:	14-May-2020 20:21:33	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 2				
Client ID:					
Operator ID:	CB	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

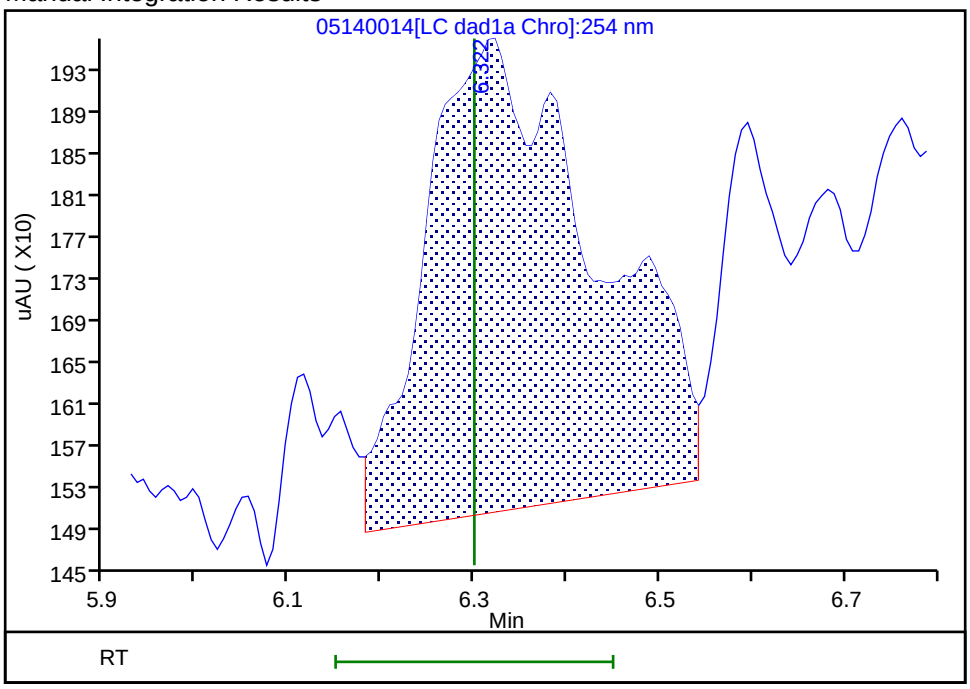
Not Detected
Expected RT: 6.30

Processing Integration Results



Manual Integration Results

RT: 6.32
Area: 5683
Amount: 0.029323
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:22:29
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

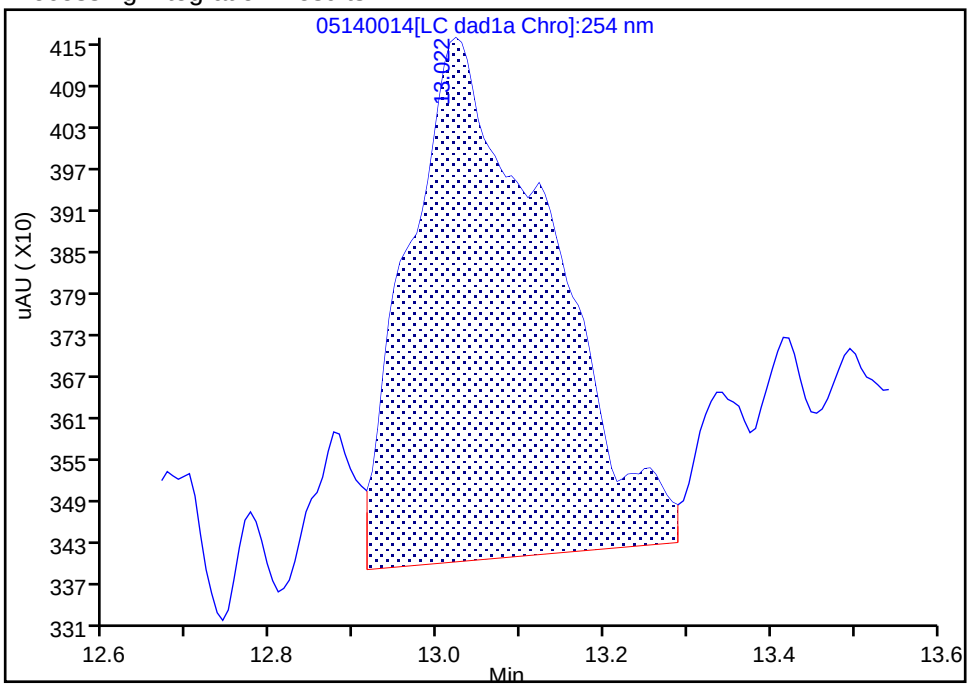
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140014.d				
Injection Date:	14-May-2020 20:21:33	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 2				
Client ID:					
Operator ID:	CB	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

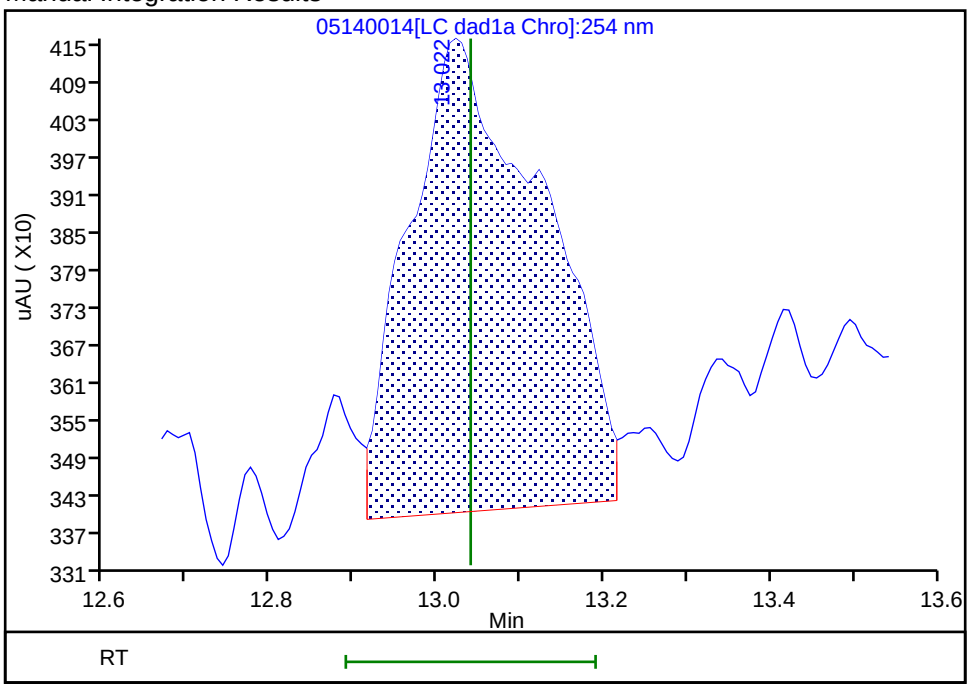
Processing Integration Results

RT: 13.02
Area: 8831
Amount: 0.029561
Amount Units: ug/ml



Manual Integration Results

RT: 13.02
Area: 8436
Amount: 0.023796
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:35:34

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

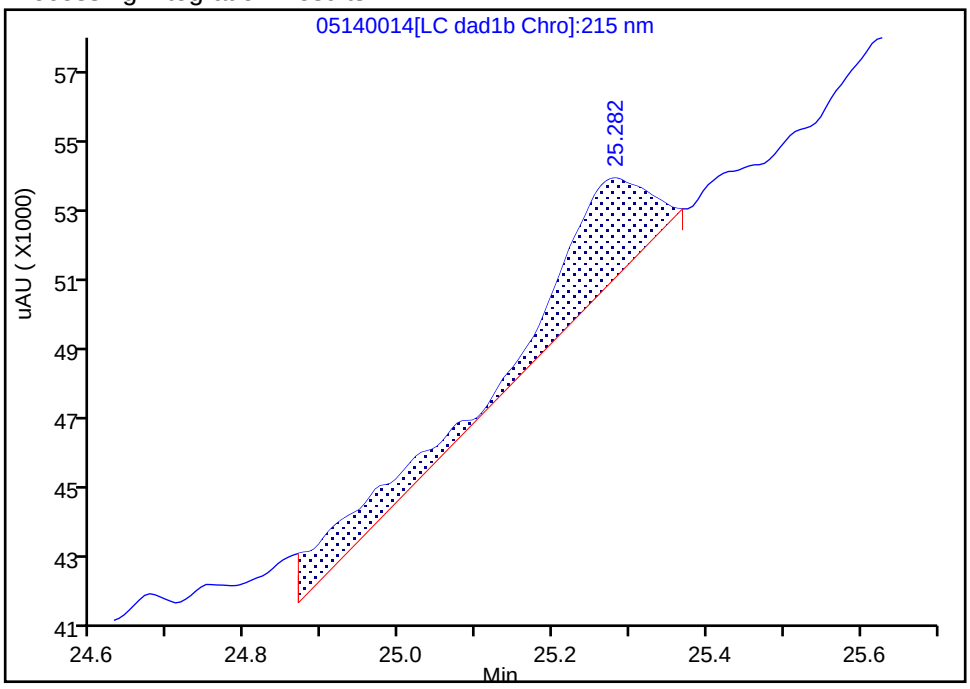
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140014.d				
Injection Date:	14-May-2020 20:21:33	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 2				
Client ID:					
Operator ID:	CB	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC DAD1B, 215 nm		

24 PETN, CAS: 78-11-5

Signal: 1

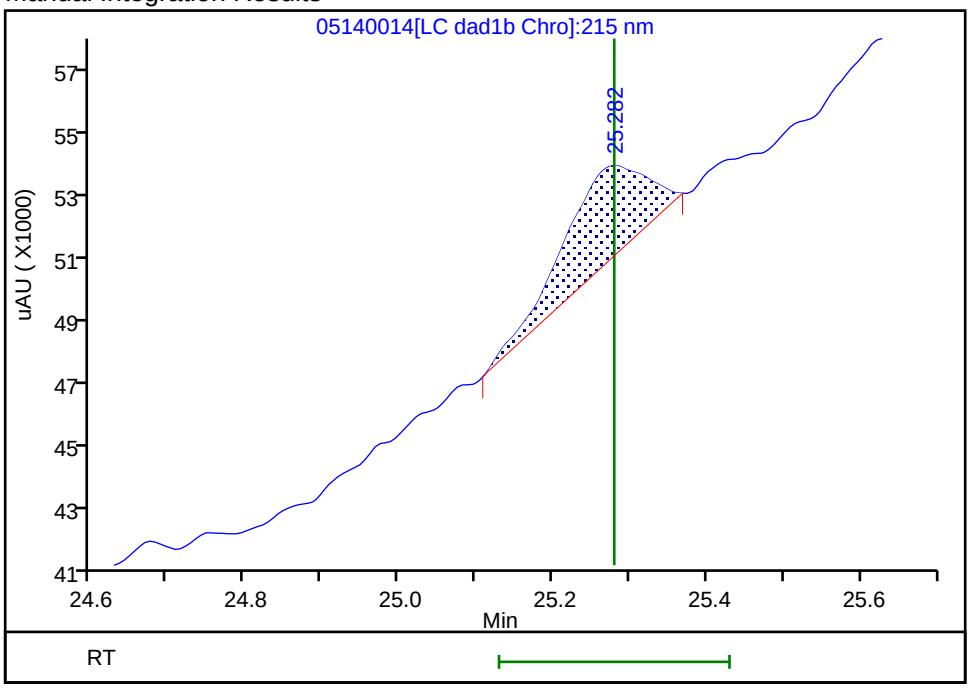
Processing Integration Results

RT: 25.28
Area: 31007
Amount: 0.129673
Amount Units: ug/ml



Manual Integration Results

RT: 25.28
Area: 20453
Amount: -0.053470
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:24:34

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140015.D
Lims ID: IC FULL 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 14-May-2020 20:56:30 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC FULL 1
Misc. Info.: 280-0091518-015
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:00:59 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 15-May-2020 11:24:04

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1		4.366			ND	ND	U
2 2,4-diamino-6-nitrotoluene	1		4.880			ND	ND	U
5 2,4,6-Trinitrophenol	1		6.300			ND	ND	U
6 HMX	1		6.986			ND	ND	U
8 RDX	1		9.173			ND	ND	U
9 Nitrobenzene	1		12.106			ND	ND	U
$ 10 1,2-Dinitrobenzene	1		13.040			ND	ND	U
11 3,5-Dinitroaniline	1		14.886			ND	ND	U
12 1,3-Dinitrobenzene	1		15.553			ND	ND	U
13 Nitroglycerin	2		15.853			ND	ND	U
14 o-Nitrotoluene	1		16.533			ND	ND	U
15 p-Nitrotoluene	1		16.820			ND	ND	U
16 4-Amino-2,6-dinitrotoluene	1		17.146			ND	ND	U
17 m-Nitrotoluene	1		17.753			ND	ND	U
18 2-Amino-4,6-dinitrotoluene	1		18.046			ND	ND	U
19 1,3,5-Trinitrobenzene	1		18.886			ND	ND	U
20 2,6-Dinitrotoluene	1	19.755	19.806	-0.051	4758	0.0126	0.001113	M
21 2,4-Dinitrotoluene	1	20.295	20.293	0.002	7990	0.0126	0.0125	M
22 Tetryl	1		23.553			ND	ND	U
23 2,4,6-Trinitrotoluene	1		24.653			ND	ND	U
24 PETN	2		25.280			ND	ND	U

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags
M - Manually Integrated
U - Marked Undetected

Reagents:

8330IntermStk_00064	Amount Added:	1.25	Units: uL
8330_ADDs_00026	Amount Added:	0.50	Units: uL

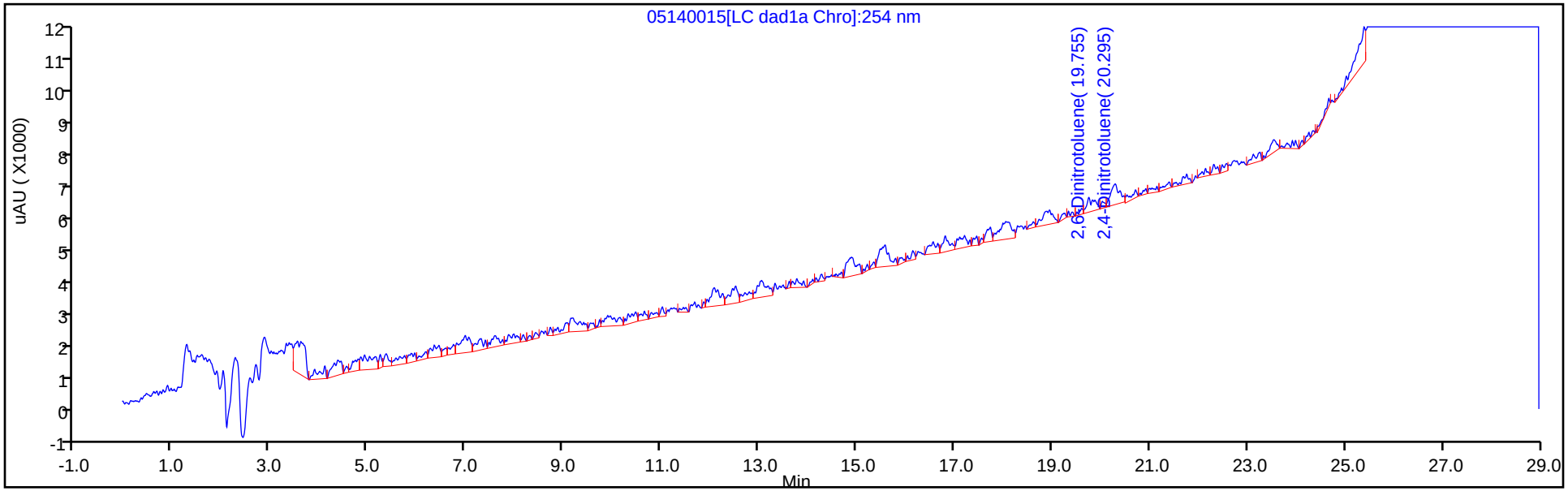
Report Date: 15-May-2020 12:00:59 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

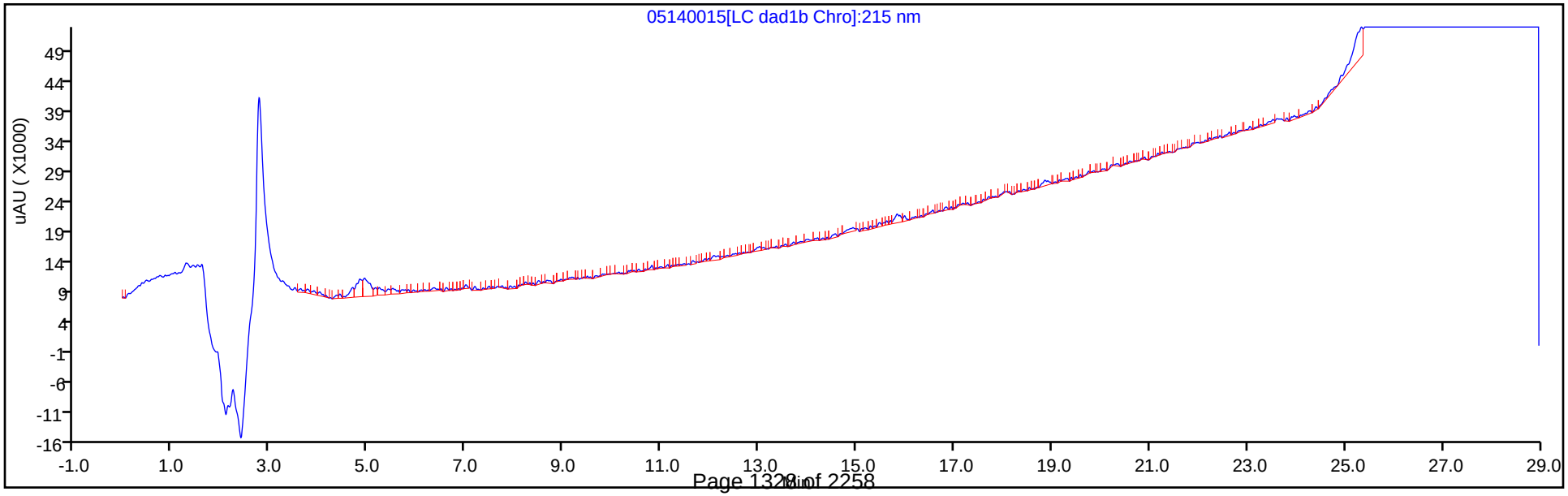
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140015.d

Injection Date:	14-May-2020 20:56:30	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC FULL 1			Worklist Smp#:	15
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

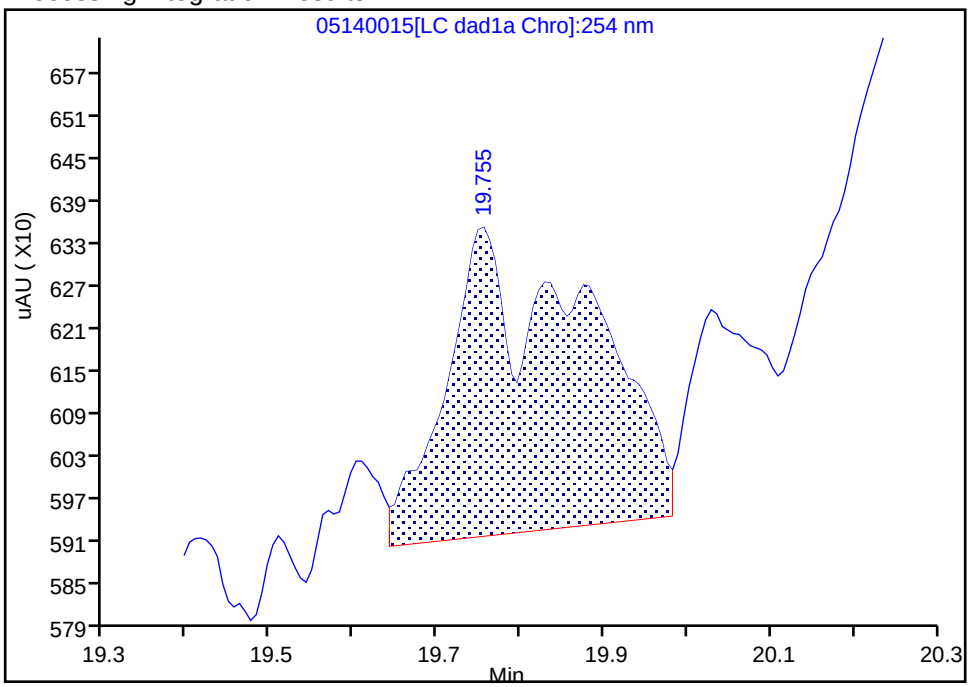
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140015.d
Injection Date: 14-May-2020 20:56:30 Instrument ID: CHHPLC_G2_LUNA
Lims ID: IC FULL 1
Client ID:
Operator ID: CB ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

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

Signal: 1

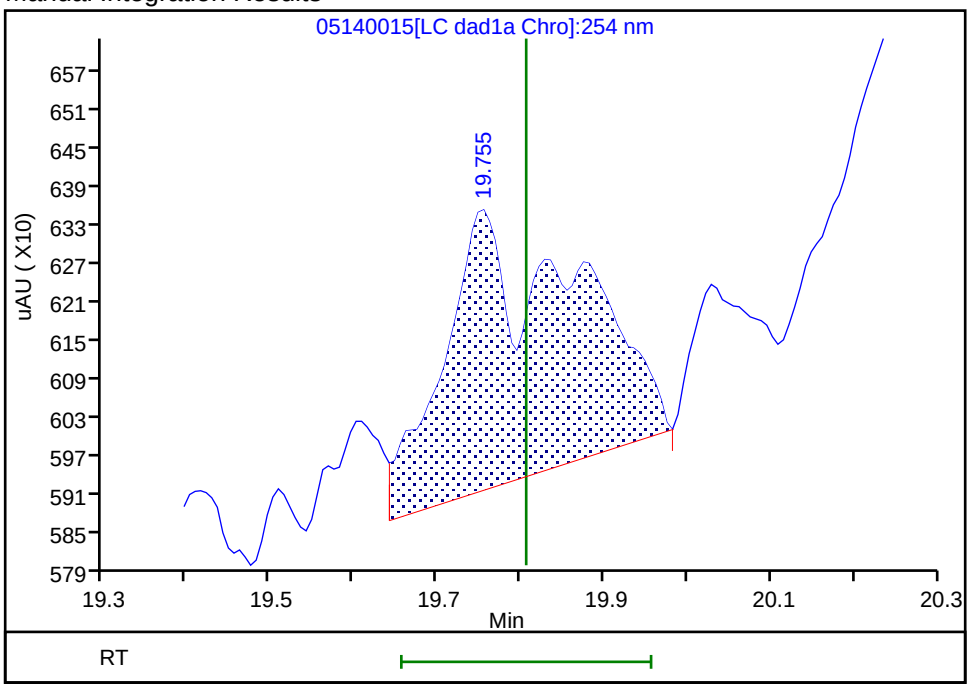
Processing Integration Results

RT: 19.76
Area: 5064
Amount: 0.014857
Amount Units: ug/ml



Manual Integration Results

RT: 19.76
Area: 4758
Amount: 0.001113
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:30:41
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

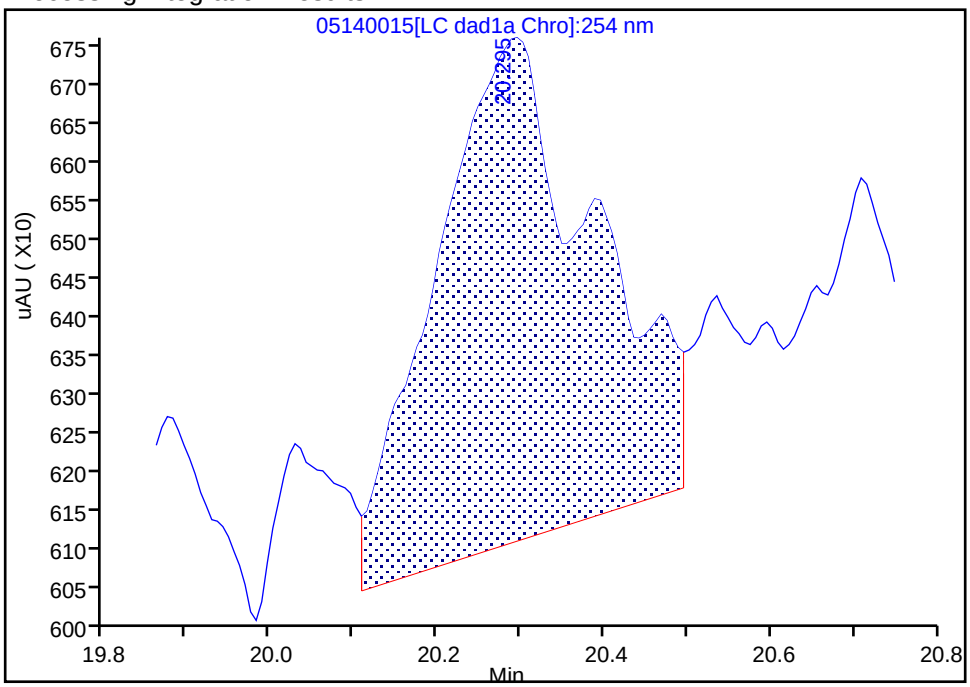
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140015.d				
Injection Date:	14-May-2020 20:56:30	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC FULL 1				
Client ID:					
Operator ID:	CB	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

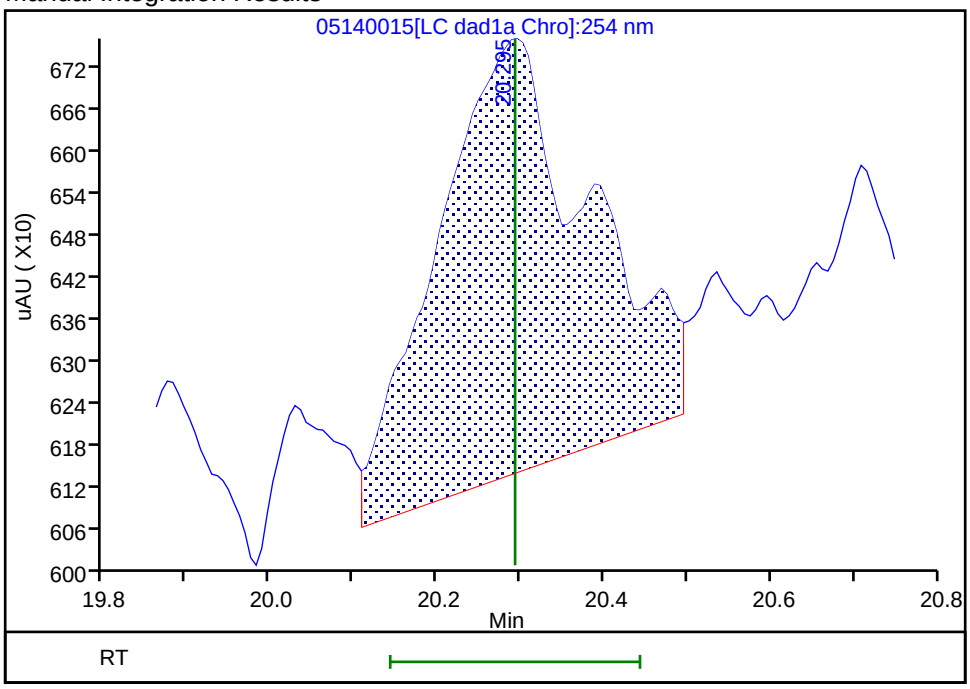
Processing Integration Results

RT: 20.30
Area: 8698
Amount: 0.013456
Amount Units: ug/ml



Manual Integration Results

RT: 20.30
Area: 7990
Amount: 0.012482
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:30:41
Audit Action: Assigned New Baseline Audit Reason: Baseline

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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 494886

SDG No.:

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 22:06 Calibration End Date: 05/15/2020 02:46 Calibration ID: 44235

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-494886/24	05140024.D
Level 2	IC 280-494886/23	05140023.D
Level 3	IC 280-494886/22	05140022.D
Level 4	IC 280-494886/21	05140021.D
Level 5	IC 280-494886/20	05140020.D
Level 6	IC 280-494886/19	05140019.D
Level 7	IC 280-494886/18	05140018.D
Level 8	IC 280-494886/17	05140017.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
TNX	5.430	5.411	5.420	5.417	5.419	5.416	5.408	5.395			5.267 - 5.567	5.415
DNX	6.217	6.224	6.226	6.231	6.226	6.223	6.214	6.202			6.081 - 6.381	6.220
MNX	7.737	7.744	7.740	7.744	7.739	7.736	7.728	7.709			7.594 - 7.894	7.735

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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 494886

SDG No.:

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 22:06 Calibration End Date: 05/15/2020 02:46 Calibration ID: 44235

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-494886/24	05140024.D
Level 2	IC 280-494886/23	05140023.D
Level 3	IC 280-494886/22	05140022.D
Level 4	IC 280-494886/21	05140021.D
Level 5	IC 280-494886/20	05140020.D
Level 6	IC 280-494886/19	05140019.D
Level 7	IC 280-494886/18	05140018.D
Level 8	IC 280-494886/17	05140017.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 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
TNX	552048 411823	425974 414575	452338 409749	404831 415188	Ave		435815.884				11.3		20.0			
DNX	380619 318914	320939 302202	322807 308244	308000 307920	Ave		321205.643				7.8		20.0			
MNX	510454 287059	337087 281216	295227 270908	285954 281272	Lin2	5408.61434	266896.431							0.9970		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 494886

SDG No.:

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2020 22:06 Calibration End Date: 05/15/2020 02:46 Calibration ID: 44235

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-494886/24	05140024.D
Level 2	IC 280-494886/23	05140023.D
Level 3	IC 280-494886/22	05140022.D
Level 4	IC 280-494886/21	05140021.D
Level 5	IC 280-494886/20	05140020.D
Level 6	IC 280-494886/19	05140019.D
Level 7	IC 280-494886/18	05140018.D
Level 8	IC 280-494886/17	05140017.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
TNX	Ave	11052 290493	21320 410159	45279 1039009	101309	164894	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250	0.400
DNX	Ave	7620 211753	16063 308552	32313 770570	77077	127693	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250	0.400
MNX	Lin2	11914 229725	19669 316150	34453 820612	83427	133999	0.0233 0.817	0.0584 1.17	0.117 2.92	0.292	0.467

Curve Type Legend:

Ave = Average
Lin2 = Linear 1/conc^2

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140017.D
Lims ID: IC DMT 9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 14-May-2020 22:06:26 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC DMT 9
Misc. Info.: 280-0091518-017
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub13

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:01:02 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 15-May-2020 11:36:21

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.395	5.417	-0.022	1039009	2.50	2.38	
4 DNX	1	6.202	6.231	-0.029	770570	2.50	2.40	
7 MNX	1	7.709	7.744	-0.035	820612	2.92	3.05	a

QC Flag Legend

Review Flags
a - User Assigned ID

Reagents:

8330 DMT_00006 Amount Added: 125.00 Units: uL

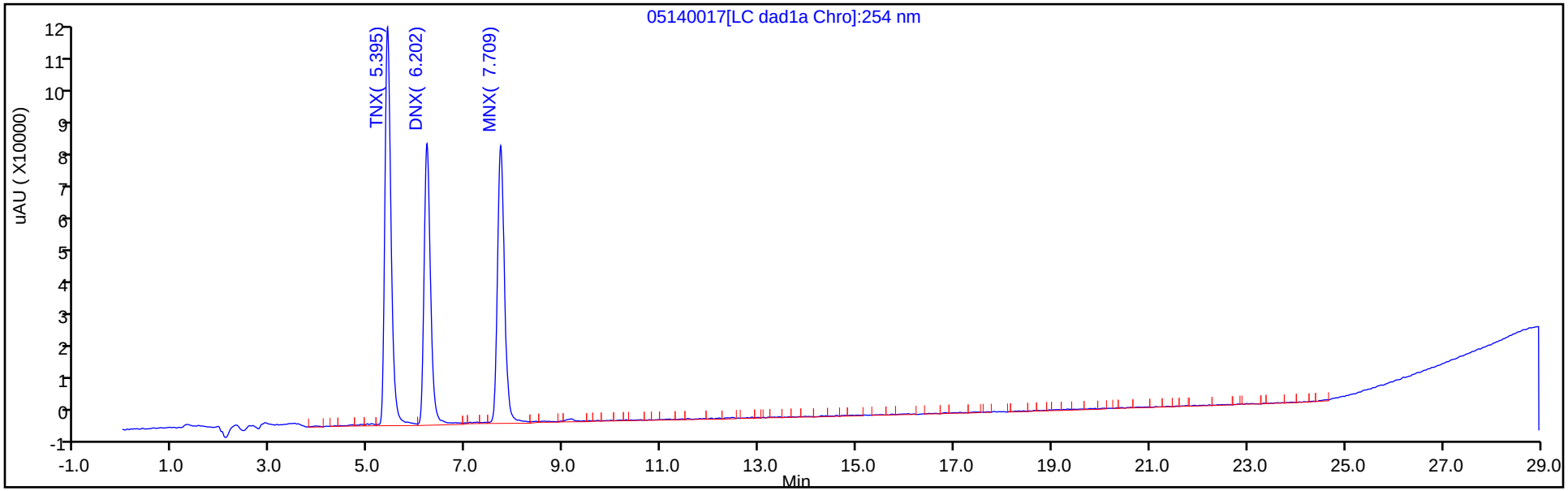
Report Date: 15-May-2020 12:01:02 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

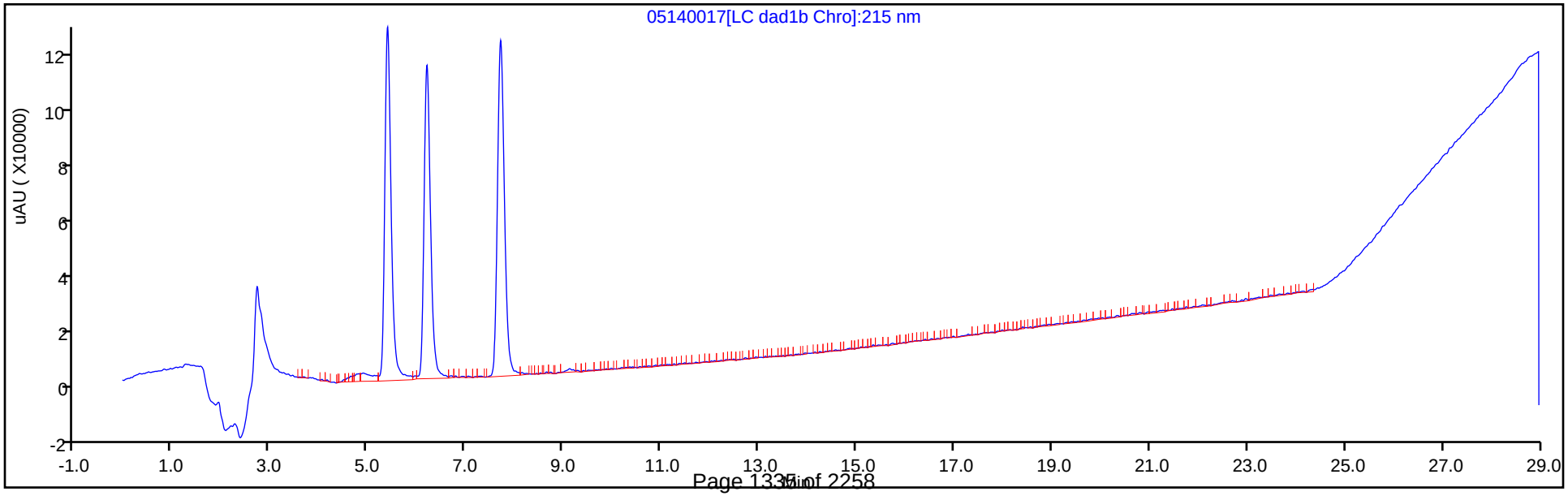
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140017.d

Injection Date:	14-May-2020 22:06:26	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC DMT 9			Worklist Smp#:	17
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

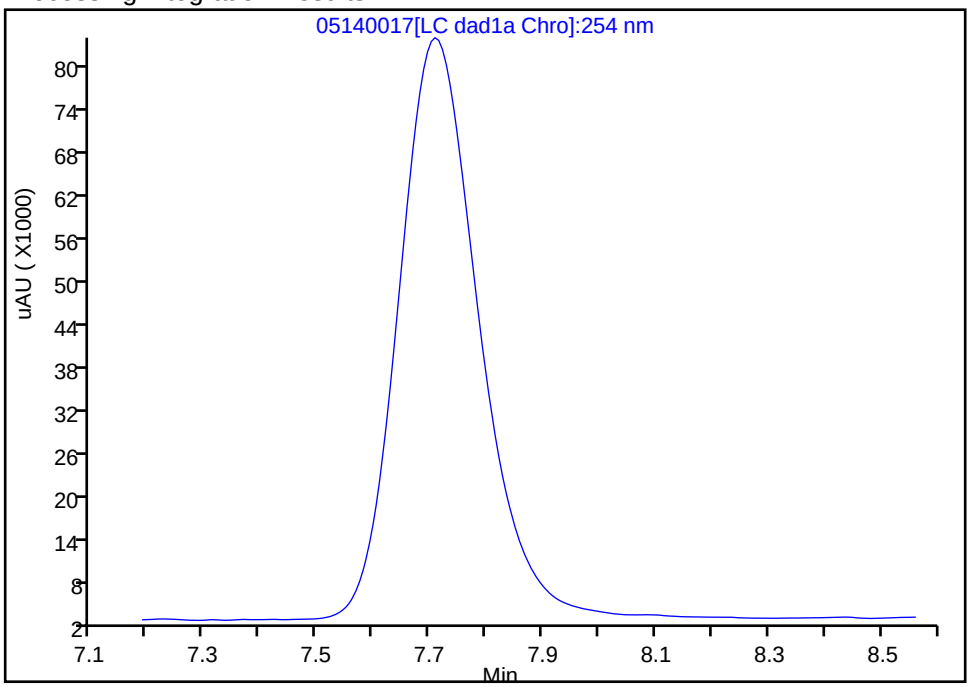
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140017.d				
Injection Date:	14-May-2020 22:06:26	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC DMT 9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

7 MNX, CAS: 5755-27-1

Signal: 1

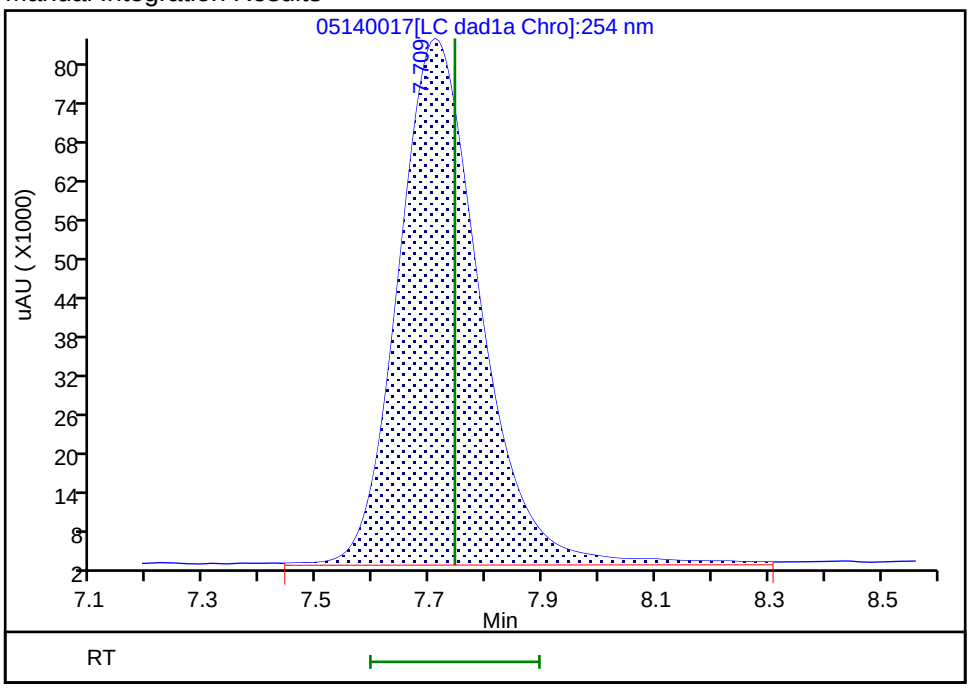
Not Detected
Expected RT: 7.74

Processing Integration Results



Manual Integration Results

RT: 7.71
Area: 820612
Amount: 3.054381
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:36:42
Audit Action: Assigned Compound ID Audit Reason:

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140018.D				
Lims ID:	IC DMT 8				
Client ID:					
Sample Type:	IC	Calib Level:	8		
Inject. Date:	14-May-2020 22:41:23	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 8				
Misc. Info.:	280-0091518-018				
Operator ID:	CB	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	15-May-2020 12:01:02	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX0318				
First Level Reviewer: zhangji		Date:	15-May-2020 11:36:48		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.408	5.417	-0.009	410159	1.00	0.9411	
4 DNX	1	6.214	6.231	-0.017	308552	1.00	0.9606	
7 MNX	1	7.728	7.744	-0.016	316150	1.17	1.16	a

QC Flag Legend

Review Flags
a - User Assigned ID

Reagents:

8330 DMT_00006 Amount Added: 50.00 Units: uL

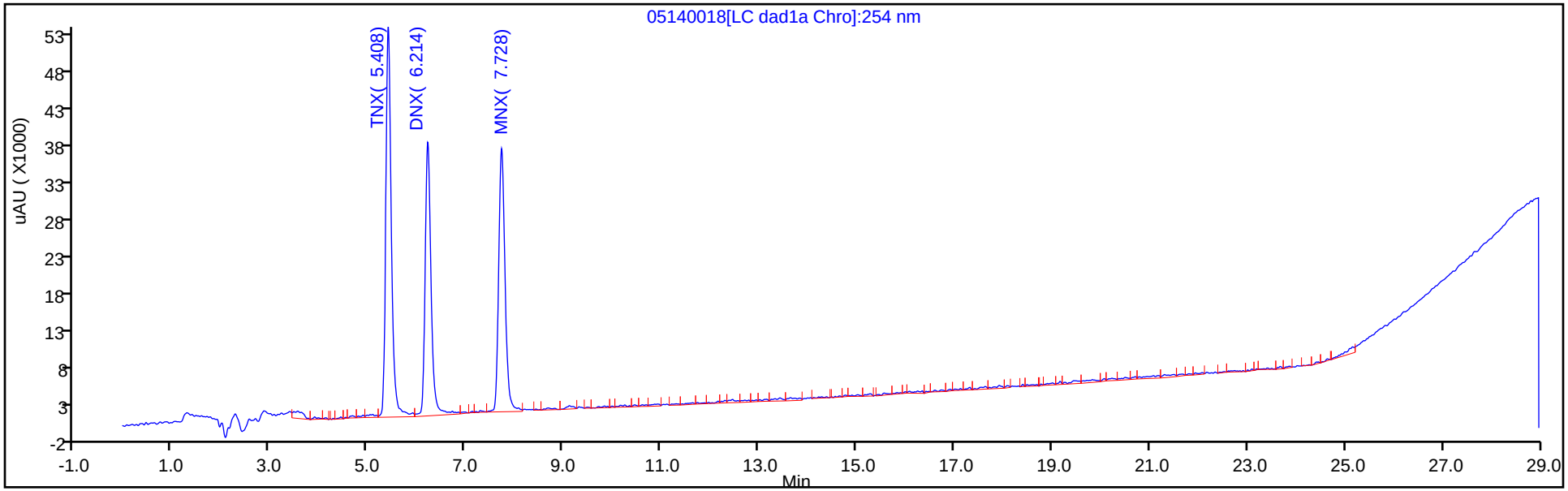
Report Date: 15-May-2020 12:01:03 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

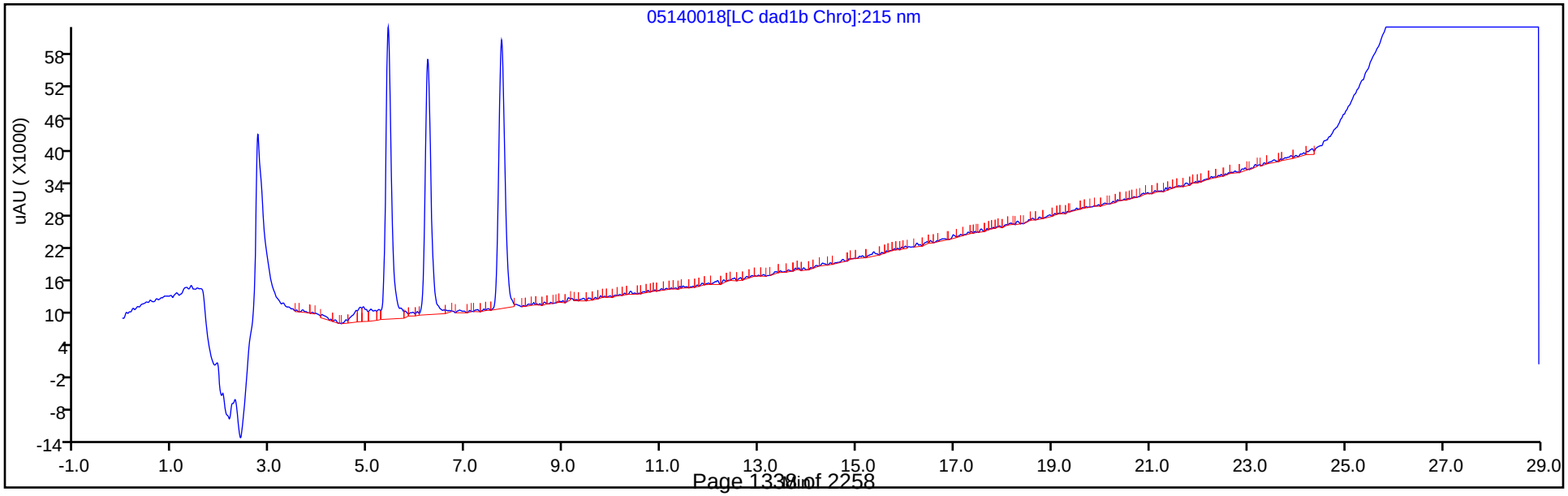
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140018.d

Injection Date:	14-May-2020 22:41:23	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC DMT 8			Worklist Smp#:	18
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

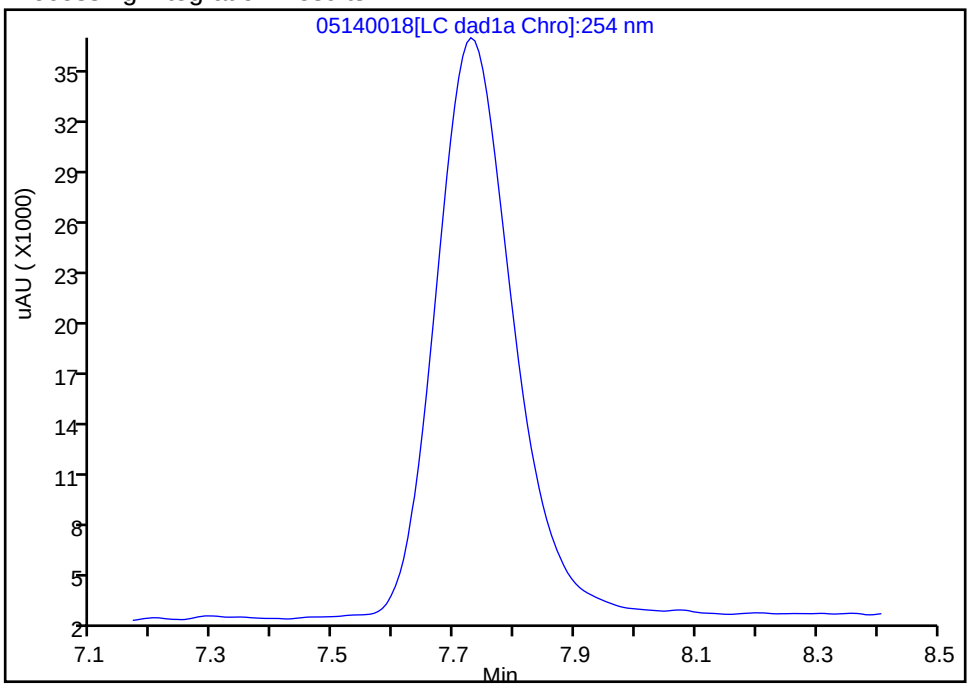
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140018.d				
Injection Date:	14-May-2020 22:41:23	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC DMT 8				
Client ID:					
Operator ID:	CB	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

7 MNX, CAS: 5755-27-1

Signal: 1

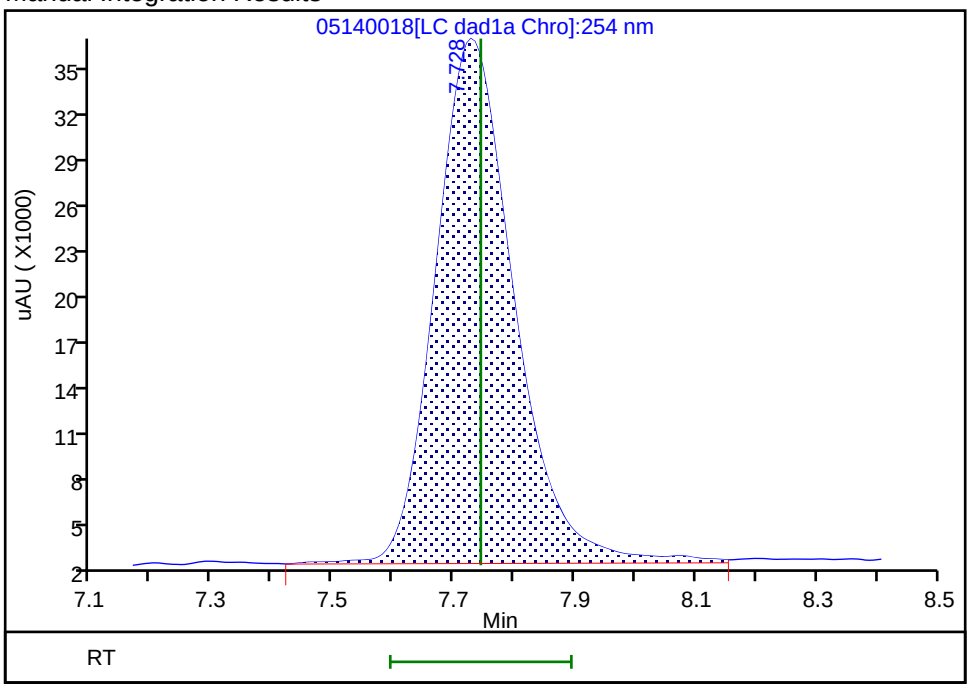
Not Detected
Expected RT: 7.74

Processing Integration Results



Manual Integration Results

RT: 7.73
Area: 316150
Amount: 1.164277
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:36:46
Audit Action: Assigned Compound ID Audit Reason:

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140019.D				
Lims ID:	IC DMT 7				
Client ID:					
Sample Type:	IC	Calib Level:	7		
Inject. Date:	14-May-2020 23:16:26	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 7				
Misc. Info.:	280-0091518-019				
Operator ID:	CB	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	15-May-2020 12:01:03	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX0318				
First Level Reviewer: zhangji		Date:	15-May-2020 11:36:56		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.416	5.417	-0.001	290493	0.7007	0.6665	
4 DNX	1	6.223	6.231	-0.008	211753	0.7007	0.6592	
7 MNX	1	7.736	7.744	-0.008	229725	0.8169	0.8405	a

QC Flag Legend

Review Flags
a - User Assigned ID

Reagents:

8330 DMT_00006 Amount Added: 35.00 Units: uL

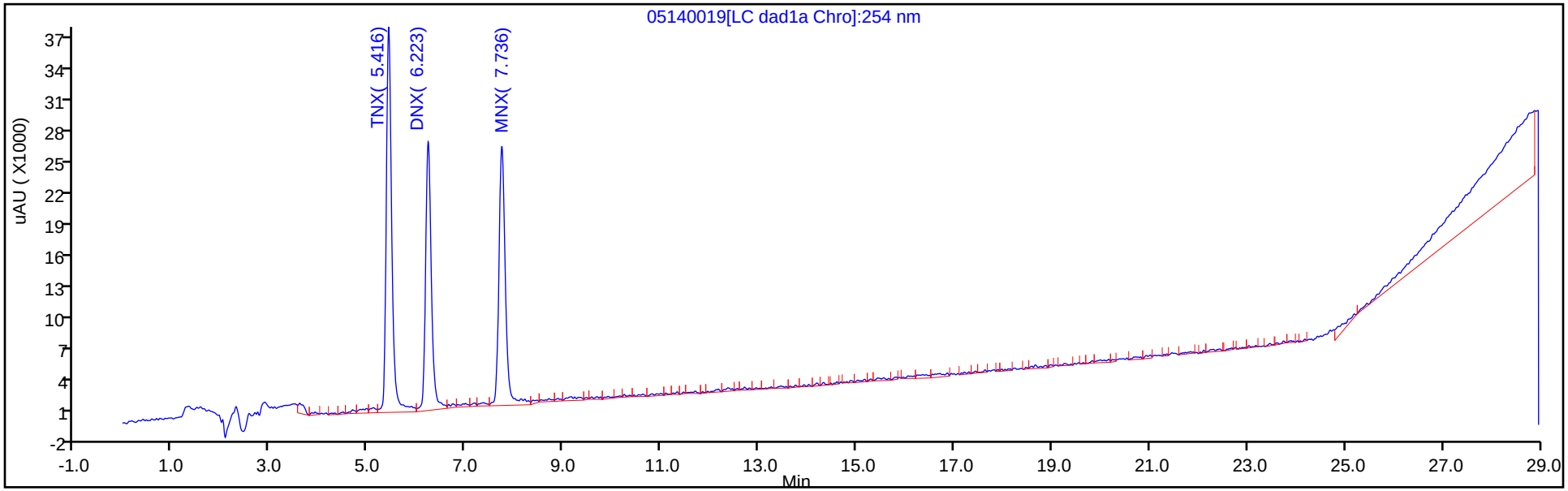
Report Date: 15-May-2020 12:01:03 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

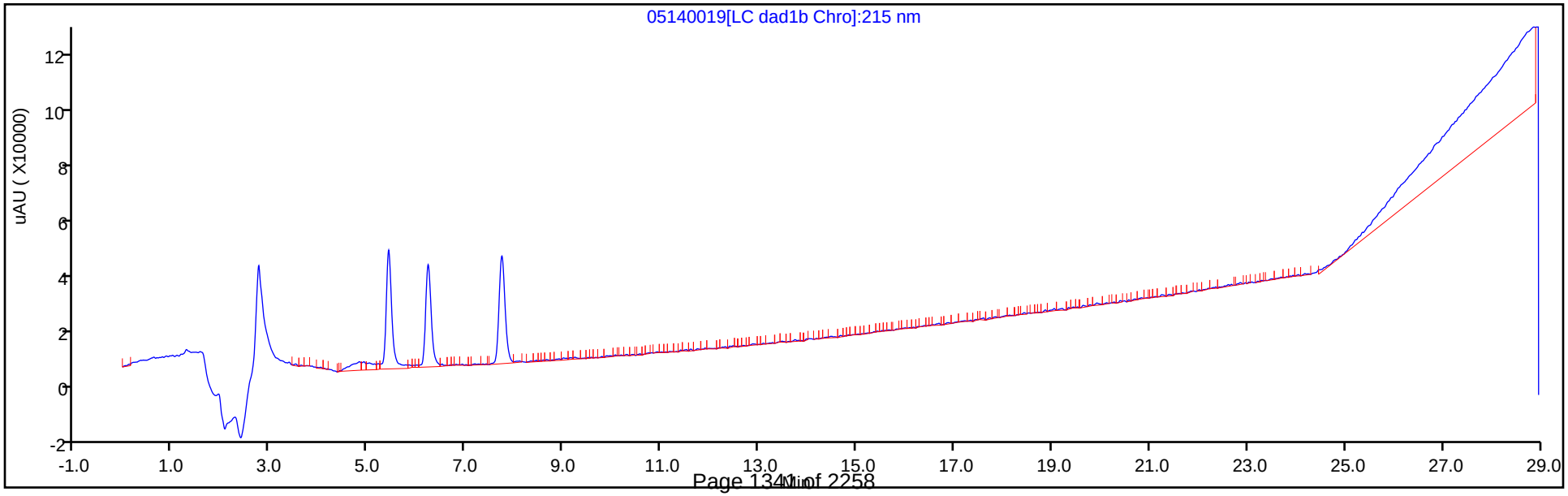
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140019.d

Injection Date:	14-May-2020 23:16:26	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC DMT 7			Worklist Smp#:	19
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

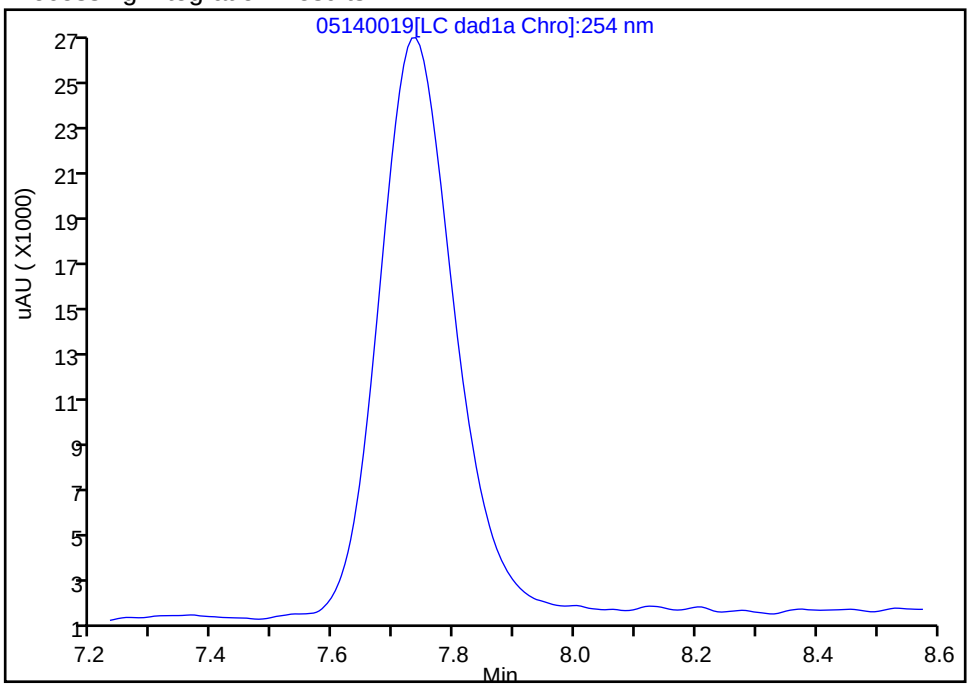
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140019.d				
Injection Date:	14-May-2020 23:16:26	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC DMT 7				
Client ID:					
Operator ID:	CB	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

7 MNX, CAS: 5755-27-1

Signal: 1

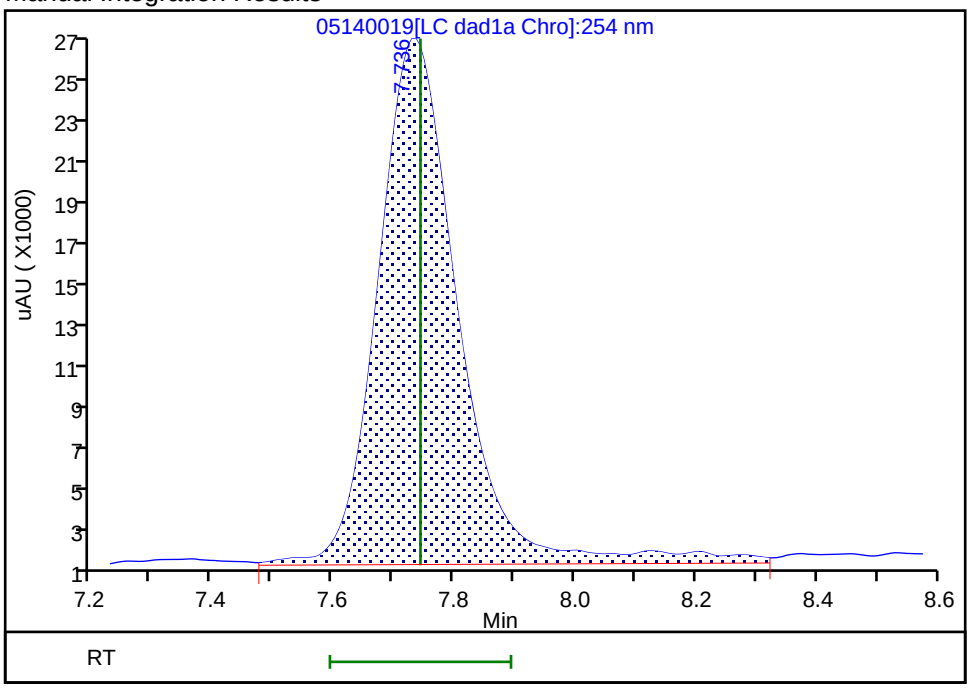
Not Detected
Expected RT: 7.74

Processing Integration Results



Manual Integration Results

RT: 7.74
Area: 229725
Amount: 0.840462
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:36:55
Audit Action: Assigned Compound ID Audit Reason:

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140020.D				
Lims ID:	IC DMT 6				
Client ID:					
Sample Type:	IC	Calib Level:	6		
Inject. Date:	14-May-2020 23:51:28	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 6				
Misc. Info.:	280-0091518-020				
Operator ID:	CB	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	15-May-2020 12:01:03	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX0318				
First Level Reviewer: zhangji		Date:	15-May-2020 11:37:01		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.419	5.417	0.002	164894	0.4004	0.3784	
4 DNX	1	6.226	6.231	-0.005	127693	0.4004	0.3975	
7 MNX	1	7.739	7.744	-0.005	133999	0.4668	0.4818	a

QC Flag Legend

Review Flags
a - User Assigned ID

Reagents:

8330 DMT_00006 Amount Added: 20.00 Units: uL

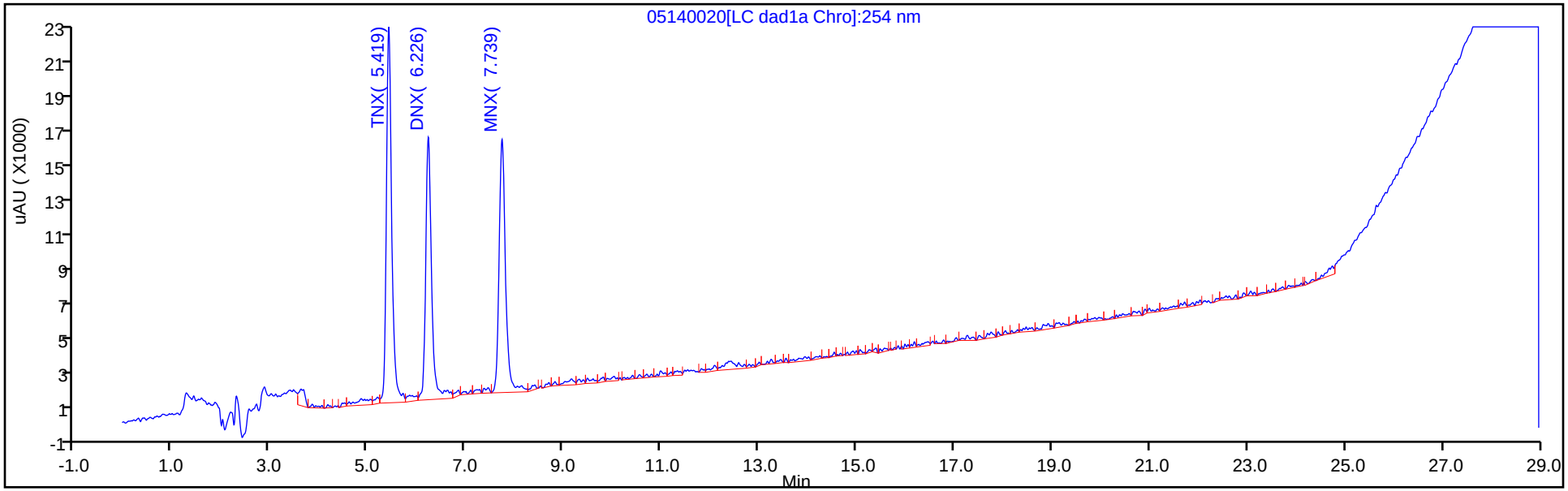
Report Date: 15-May-2020 12:01:04 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

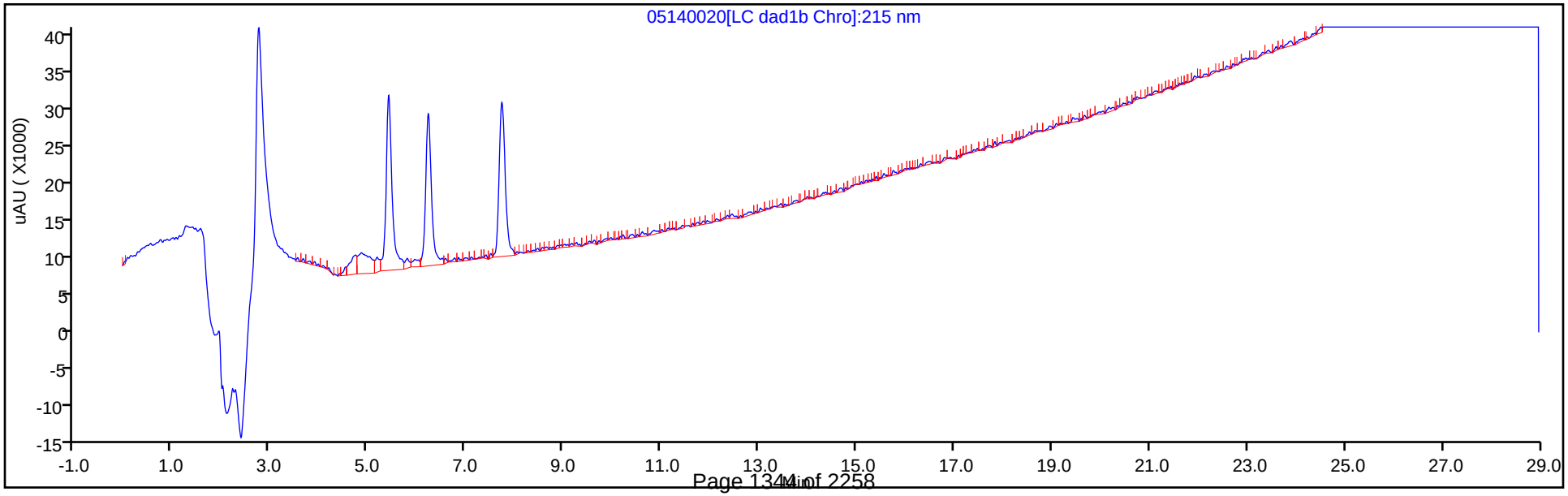
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140020.d

Injection Date:	14-May-2020 23:51:28	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC DMT 6			Worklist Smp#:	20
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

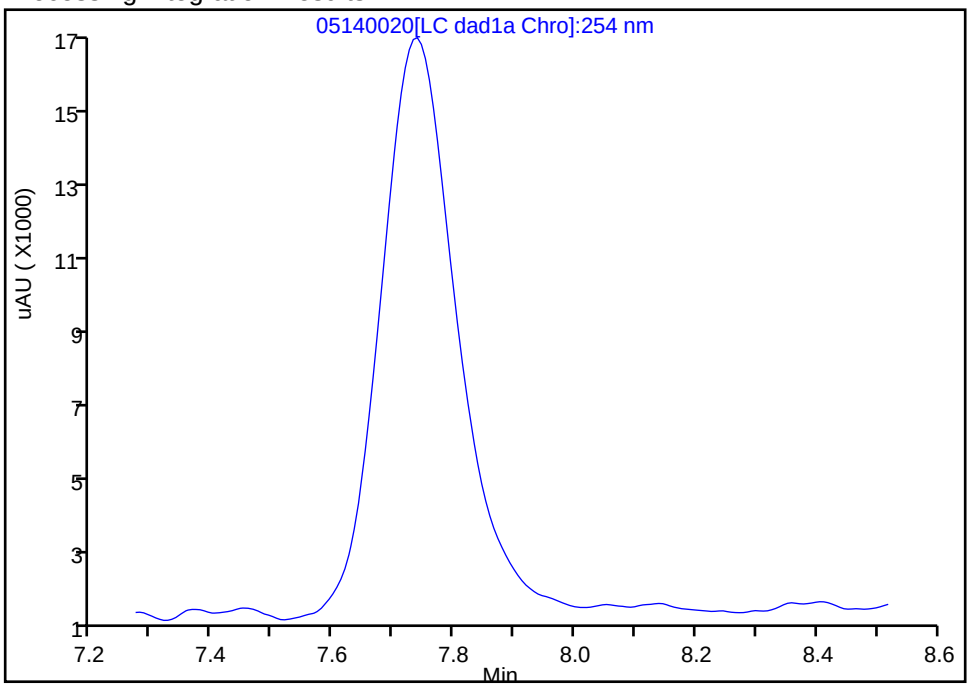
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140020.d				
Injection Date:	14-May-2020 23:51:28	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	IC DMT 6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

7 MNX, CAS: 5755-27-1

Signal: 1

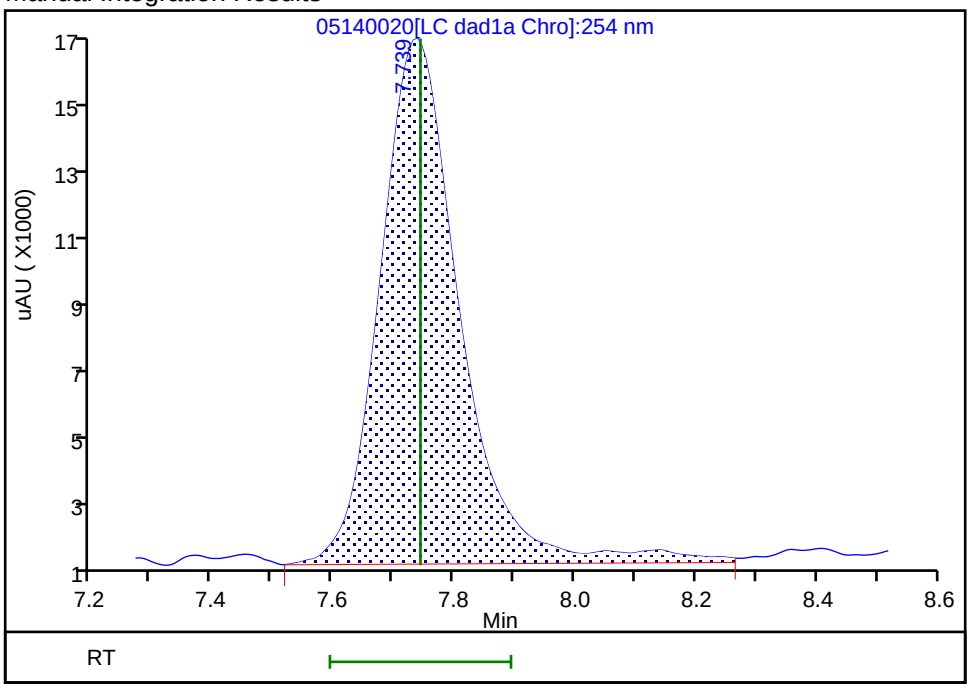
Not Detected
Expected RT: 7.74

Processing Integration Results



Manual Integration Results

RT: 7.74
Area: 133999
Amount: 0.481799
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:36:59
Audit Action: Assigned Compound ID Audit Reason:

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140021.D				
Lims ID:	IC DMT 5				
Client ID:					
Sample Type:	IC	Calib Level:	5		
Inject. Date:	15-May-2020 00:26:25	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 5				
Misc. Info.:	280-0091518-021				
Operator ID:	CB	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	15-May-2020 12:01:04	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX0318				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.417	5.417	0.000	101309	0.2503	0.2325	
4 DNX	1	6.231	6.231	0.000	77077	0.2503	0.2400	
7 MNX	1	7.744	7.744	0.000	83427	0.2918	0.2923	

Reagents:

8330 DMT_00006 Amount Added: 12.50 Units: uL

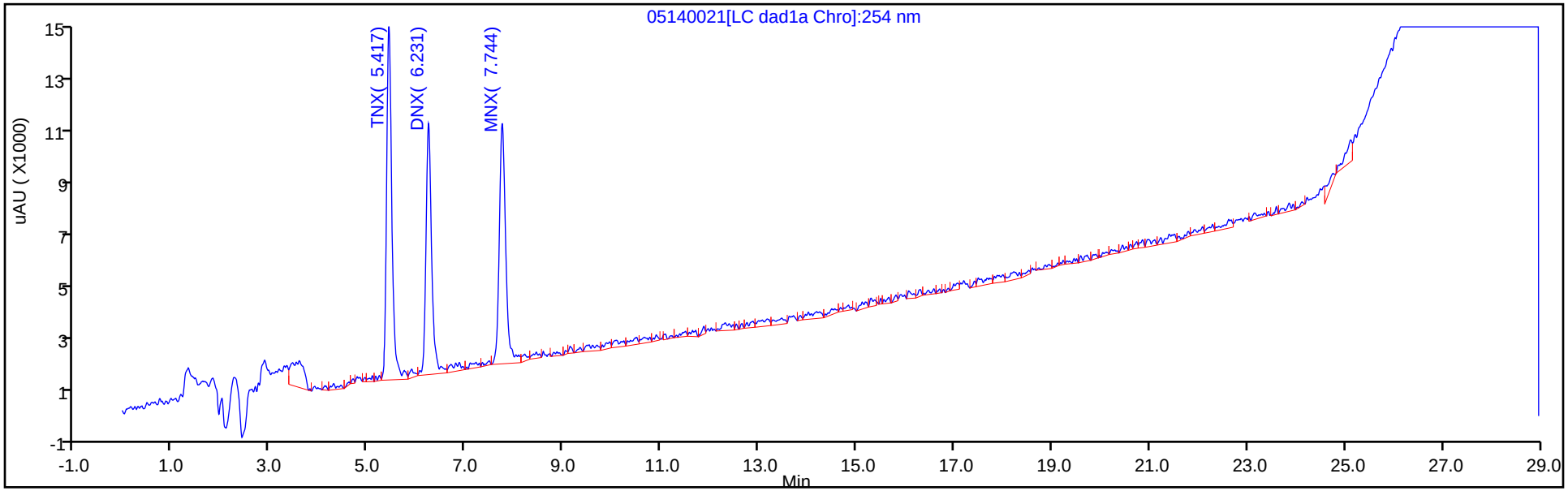
Report Date: 15-May-2020 12:01:04 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

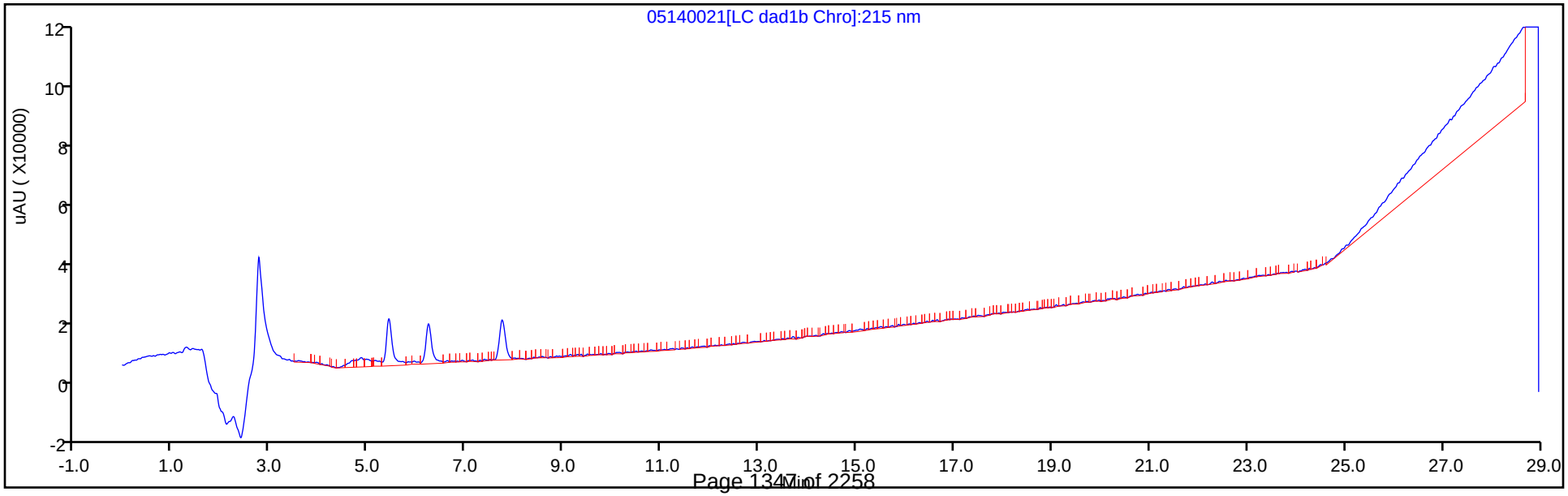
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140021.d

Injection Date:	15-May-2020 00:26:25	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC DMT 5			Worklist Smp#:	21
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140022.D				
Lims ID:	IC DMT 4				
Client ID:					
Sample Type:	IC	Calib Level:	4		
Inject. Date:	15-May-2020 01:01:25	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 4				
Misc. Info.:	280-0091518-022				
Operator ID:	CB	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	15-May-2020 12:01:04	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX0318				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.420	5.417	0.003	45279	0.1001	0.1039	
4 DNX	1	6.226	6.231	-0.005	32313	0.1001	0.1006	
7 MNX	1	7.740	7.744	-0.004	34453	0.1167	0.1088	

Reagents:

8330 DMT_00006 Amount Added: 5.00 Units: uL

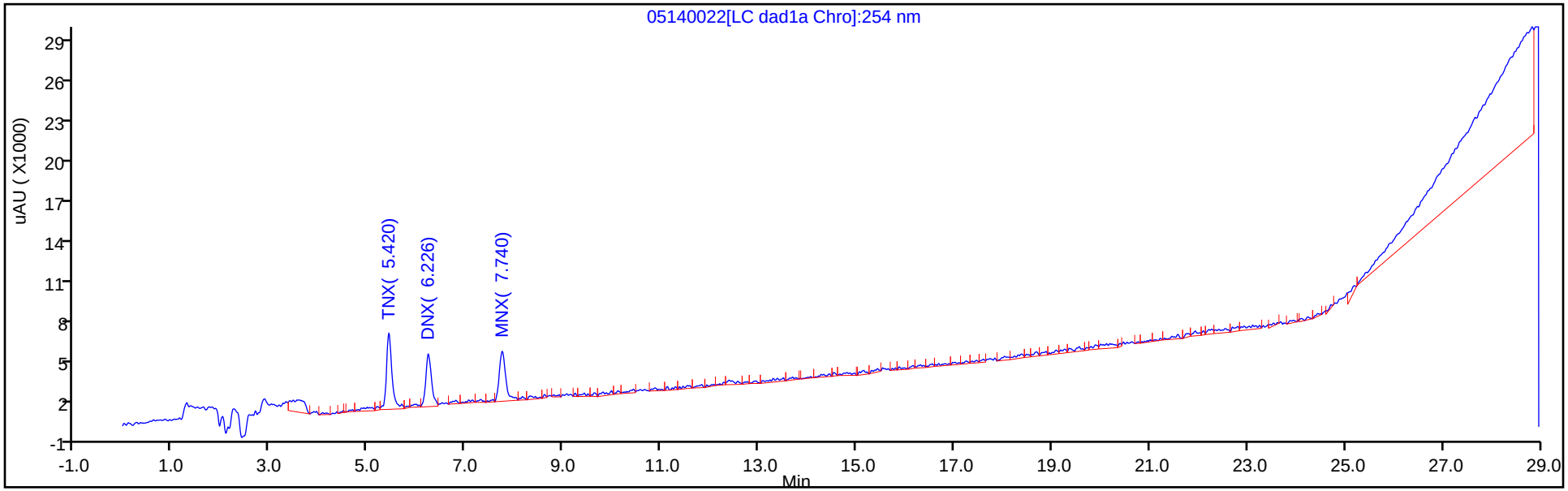
Report Date: 15-May-2020 12:01:04 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

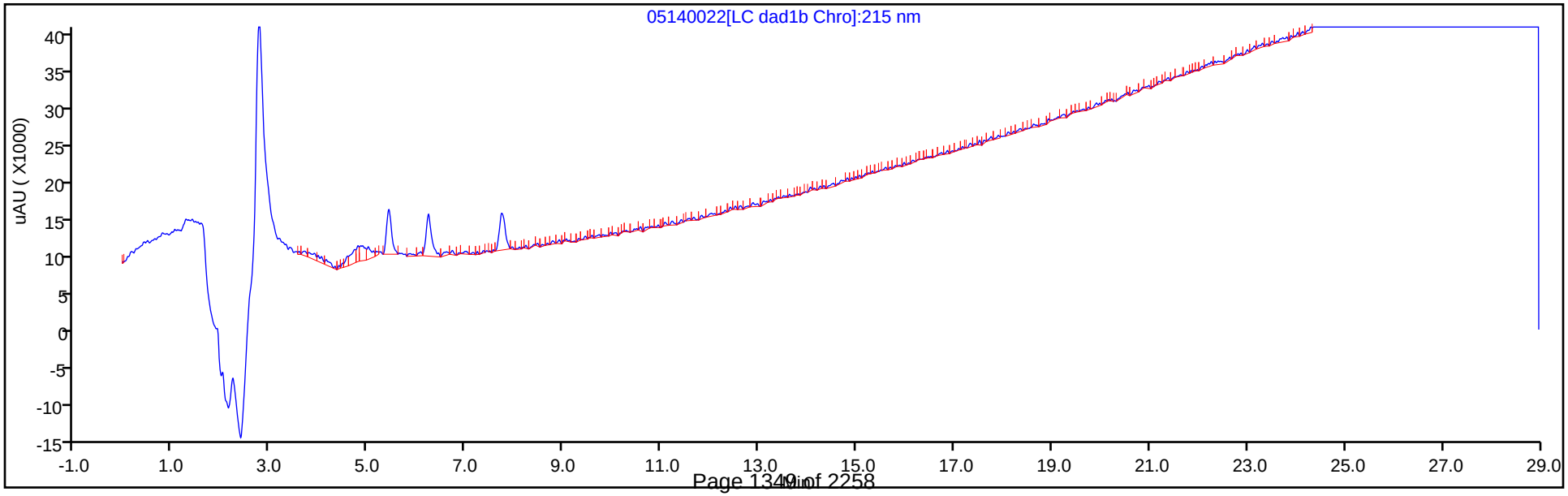
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140022.d

Injection Date:	15-May-2020 01:01:25	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC DMT 4			Worklist Smp#:	22
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140023.D				
Lims ID:	IC DMT 3				
Client ID:					
Sample Type:	IC	Calib Level:	3		
Inject. Date:	15-May-2020 01:36:23	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 3				
Misc. Info.:	280-0091518-023				
Operator ID:	CB	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	15-May-2020 12:01:05	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX0318				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.411	5.417	-0.006	21320	0.0501	0.0489	
4 DNX	1	6.224	6.231	-0.007	16063	0.0501	0.0500	
7 MNX	1	7.744	7.744	0.000	19669	0.0584	0.0534	

Reagents:

8330 DMT_00006 Amount Added: 2.50 Units: uL

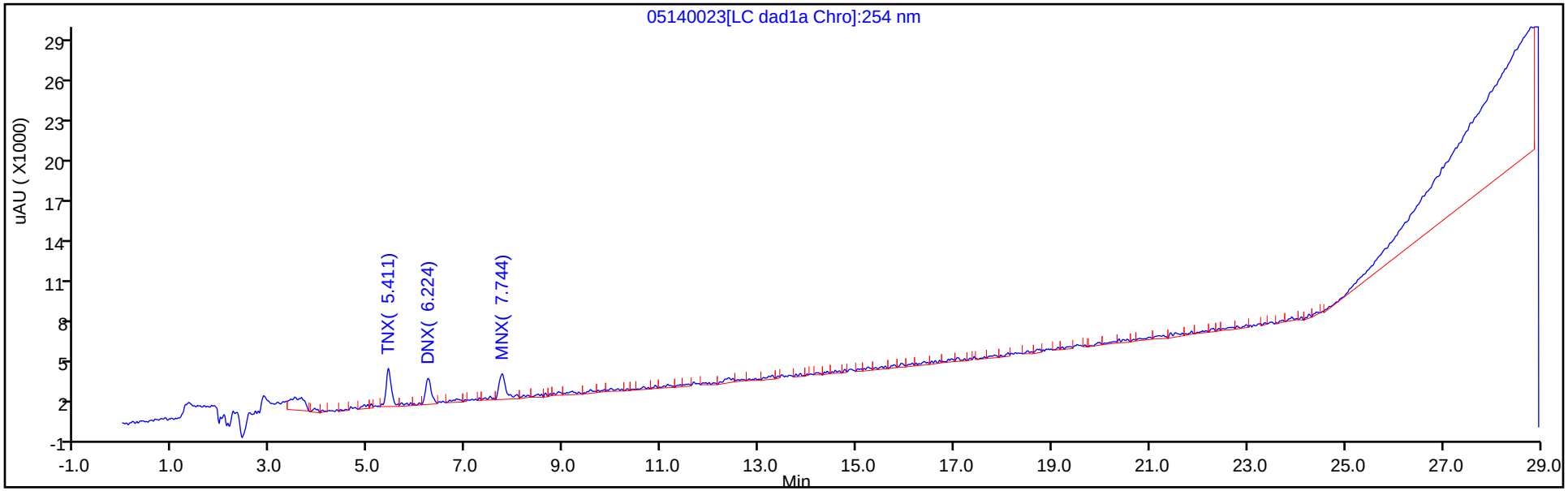
Report Date: 15-May-2020 12:01:05 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

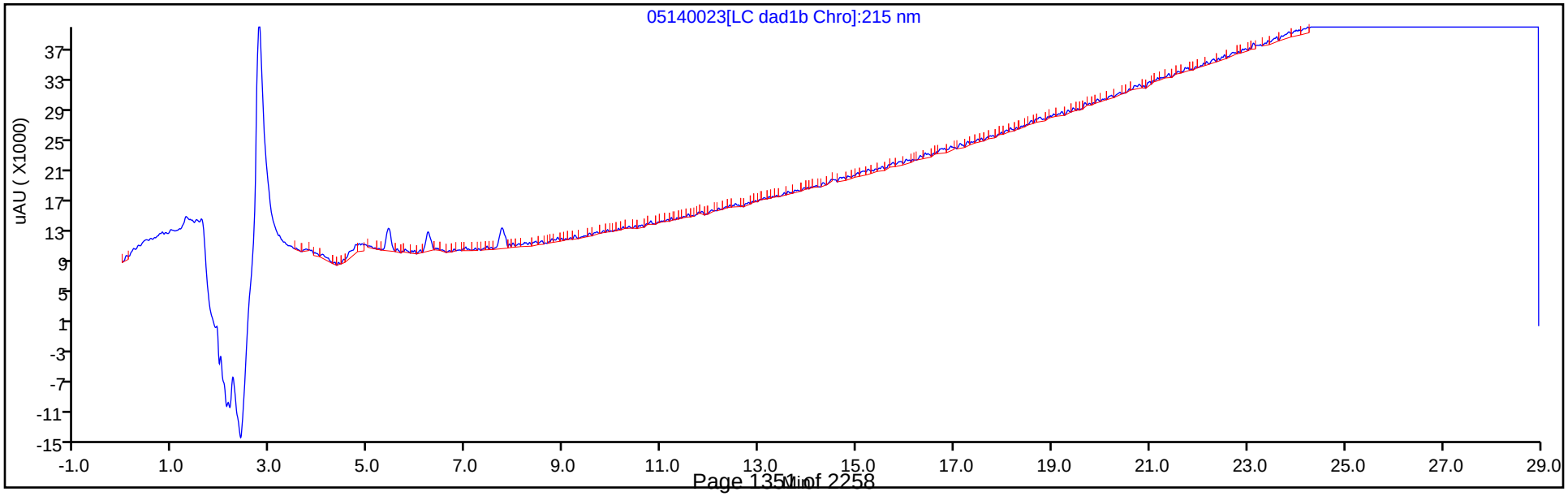
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140023.d

Injection Date:	15-May-2020 01:36:23	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC DMT 3			Worklist Smp#:	23
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Lims ID:	IC DMT 2				
Client ID:					
Sample Type:	IC	Calib Level:	2		
Inject. Date:	15-May-2020 02:11:20	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT 2				
Misc. Info.:	280-0091518-024				
Operator ID:	CB	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	15-May-2020 12:01:05	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX0318				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.430	5.417	0.013	11052	0.0200	0.0254	
4 DNX	1	6.217	6.231	-0.014	7620	0.0200	0.0237	
7 MNX	1	7.737	7.744	-0.007	11914	0.0233	0.0244	

Reagents:

8330 DMT_00006 Amount Added: 1.00 Units: uL

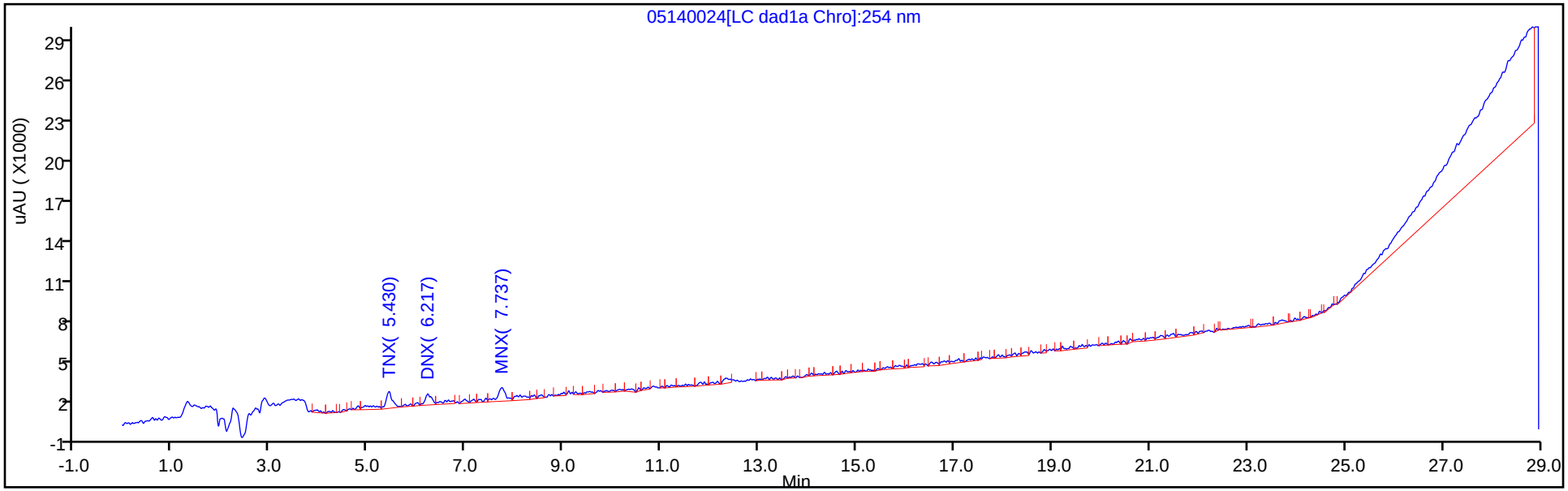
Report Date: 15-May-2020 12:01:05 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

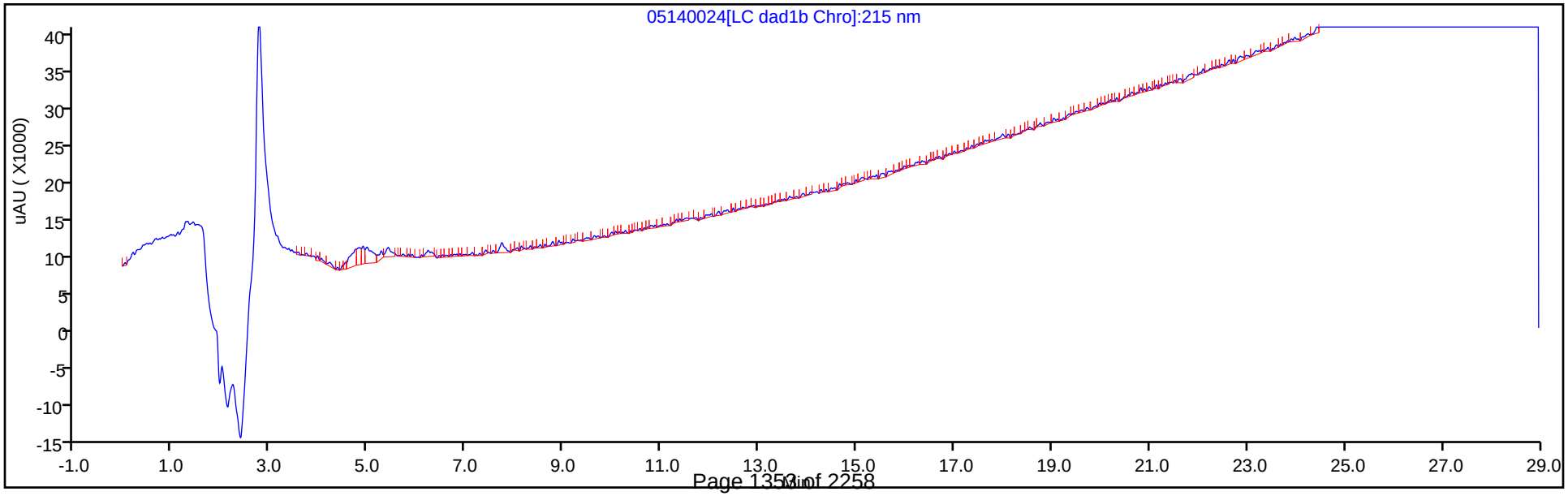
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140024.d

Injection Date:	15-May-2020 02:11:20	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	IC DMT 2			Worklist Smp#:	24
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 487658

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/04/2020 21:00 Calibration End Date: 03/04/2020 23:40 Calibration ID: 42564

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-487658/32	03040032.D
Level 2	IC 280-487658/31	03040031.D
Level 3	IC 280-487658/30	03040030.D
Level 4	IC 280-487658/29	03040029.D
Level 5	IC 280-487658/28	03040028.D
Level 6	IC 280-487658/27	03040027.D
Level 7	IC 280-487658/26	03040026.D
Level 8	IC 280-487658/25	03040025.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
TNX	6.592	6.588	6.589	6.591	6.591	6.591	6.591	6.590			6.491 - 6.691	6.590
DNX	6.912	6.914	6.915	6.918	6.917	6.918	6.918	6.916			6.818 - 7.018	6.916
MNX	7.359	7.354	7.355	7.358	7.357	7.358	7.358	7.356			7.208 - 7.508	7.357

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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 487658

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/04/2020 21:00 Calibration End Date: 03/04/2020 23:40 Calibration ID: 42564

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-487658/32	03040032.D
Level 2	IC 280-487658/31	03040031.D
Level 3	IC 280-487658/30	03040030.D
Level 4	IC 280-487658/29	03040029.D
Level 5	IC 280-487658/28	03040028.D
Level 6	IC 280-487658/27	03040027.D
Level 7	IC 280-487658/26	03040026.D
Level 8	IC 280-487658/25	03040025.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 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
TNX	216933 212722	213207 212002	209810 219067	231497 225632	Ave		217608.702				3.5		20.0			
DNX	117133 161214	137942 160624	149221 163997	167576 165720	Ave		152928.307				11.5		20.0			
MNX	175621 156707	161285 152355	156238 154895	157686 153564	Ave		158544.202				4.7		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 487658

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/04/2020 21:00 Calibration End Date: 03/04/2020 23:40 Calibration ID: 42564

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-487658/32	03040032.D
Level 2	IC 280-487658/31	03040031.D
Level 3	IC 280-487658/30	03040030.D
Level 4	IC 280-487658/29	03040029.D
Level 5	IC 280-487658/28	03040028.D
Level 6	IC 280-487658/27	03040027.D
Level 7	IC 280-487658/26	03040026.D
Level 8	IC 280-487658/25	03040025.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
TNX	Ave	4343 148550	10671 219286	21002 564643	57932	85174	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250	0.400
DNX	Ave	2345 112549	6904 164161	14937 414714	41936	64550	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250	0.400
MNX	Ave	4099 124459	9411 180763	18233 448024	46005	73151	0.0233 0.817	0.0584 1.17	0.117 2.92	0.292	0.467

Curve Type Legend:
Ave = Average

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040025.D
Lims ID: IC DMT L8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 04-Mar-2020 21:00:00 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC DMT L8
Misc. Info.: 280-0089779-025
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub17

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 06-Mar-2020 10:25:20 Calib Date: 04-Mar-2020 23:40:46
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 05-Mar-2020 08:30:04

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.590	6.591	-0.001	564643	2.50	2.59	M
5 DNX	1	6.916	6.918	-0.002	414714	2.50	2.71	M
6 MNX	1	7.356	7.358	-0.002	448024	2.92	2.83	M

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00005 Amount Added: 125.00 Units: uL

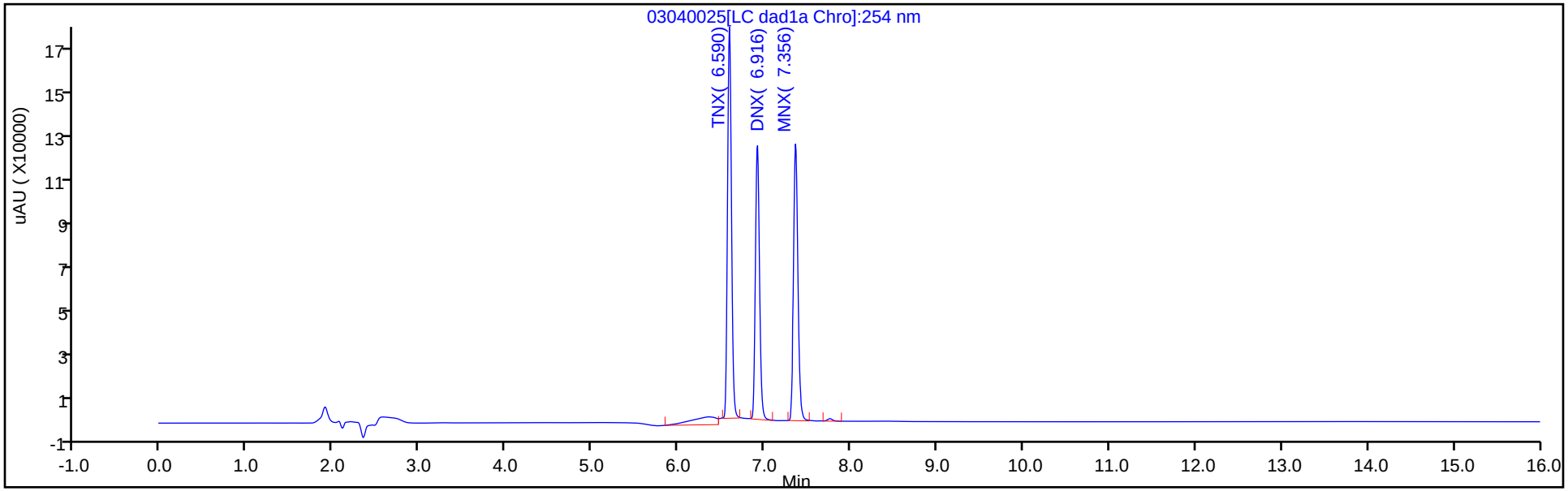
Report Date: 06-Mar-2020 10:25:21 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

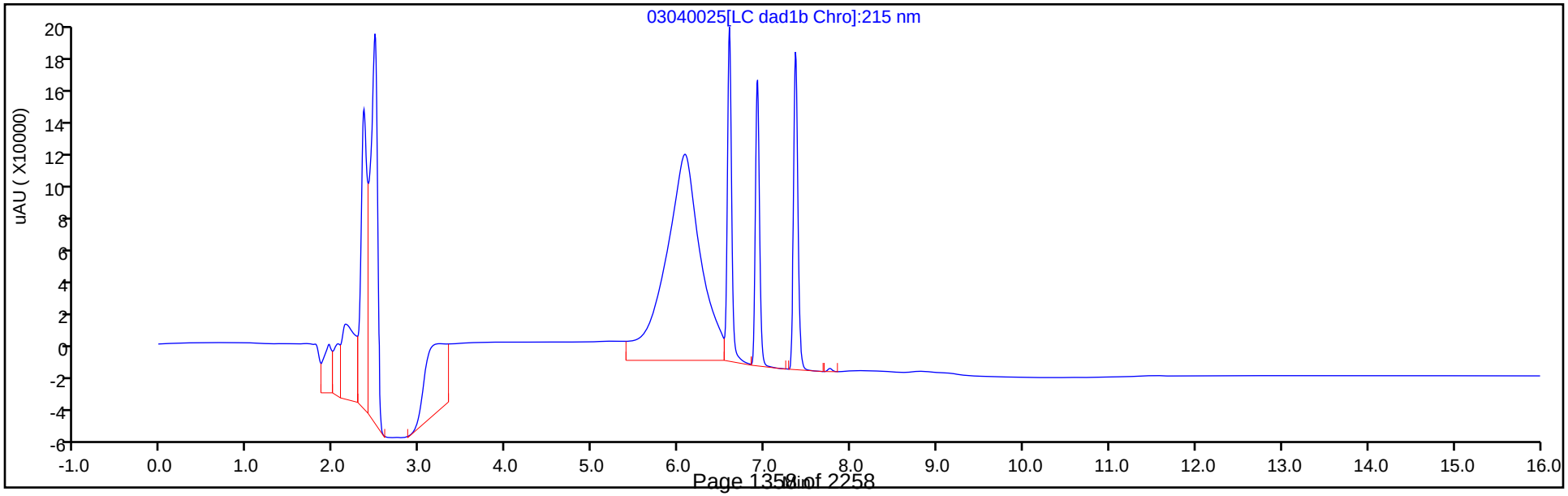
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040025.d

Injection Date:	04-Mar-2020 21:00:00	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC DMT L8			Worklist Smp#:	25
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

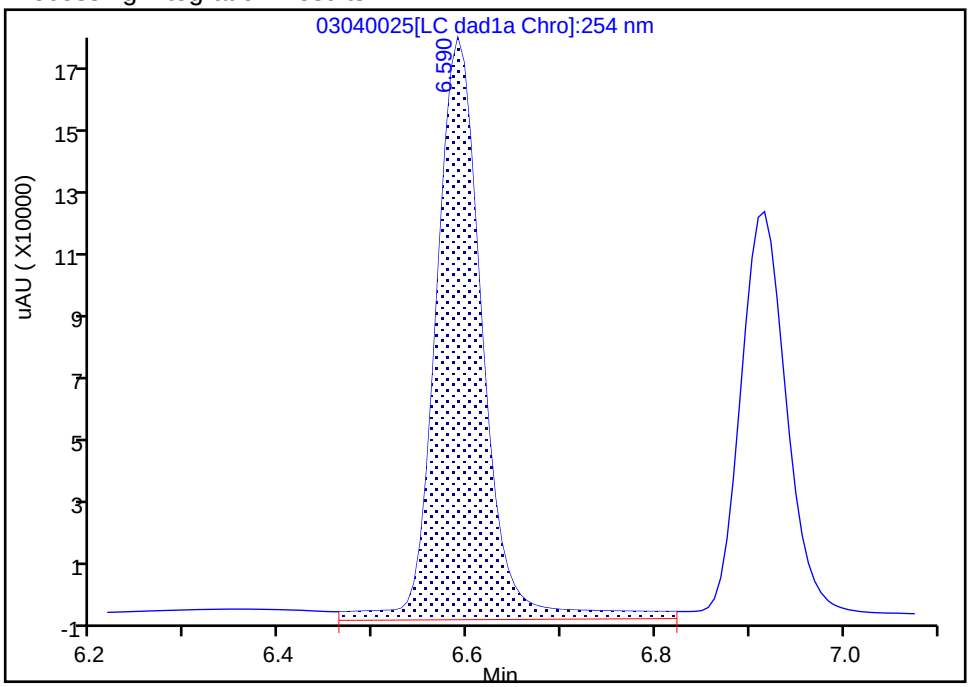
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040025.d				
Injection Date:	04-Mar-2020 21:00:00	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L8				
Client ID:					
Operator ID:	CB	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

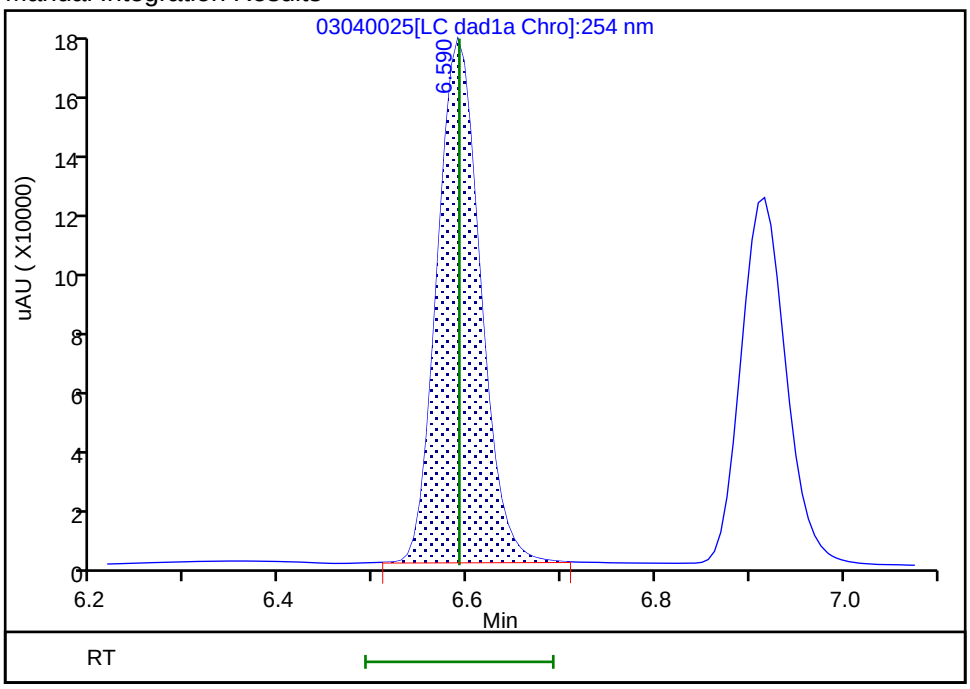
Processing Integration Results

RT: 6.59
Area: 620676
Amount: 2.450904
Amount Units: ug/mL



Manual Integration Results

RT: 6.59
Area: 564643
Amount: 2.594763
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:29:45

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

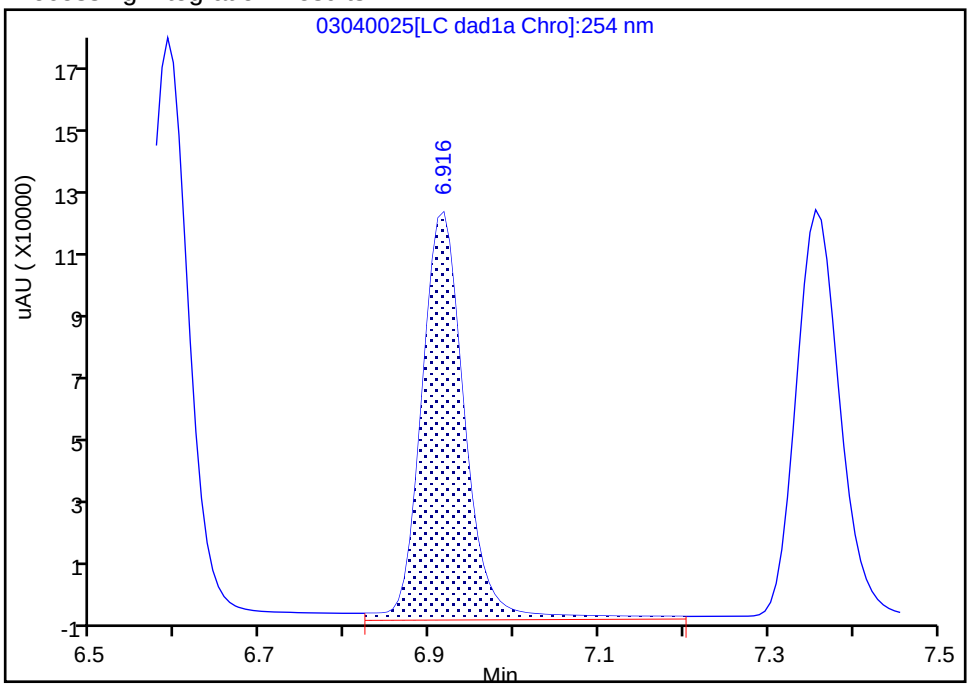
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040025.d				
Injection Date:	04-Mar-2020 21:00:00	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L8				
Client ID:					
Operator ID:	CB	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

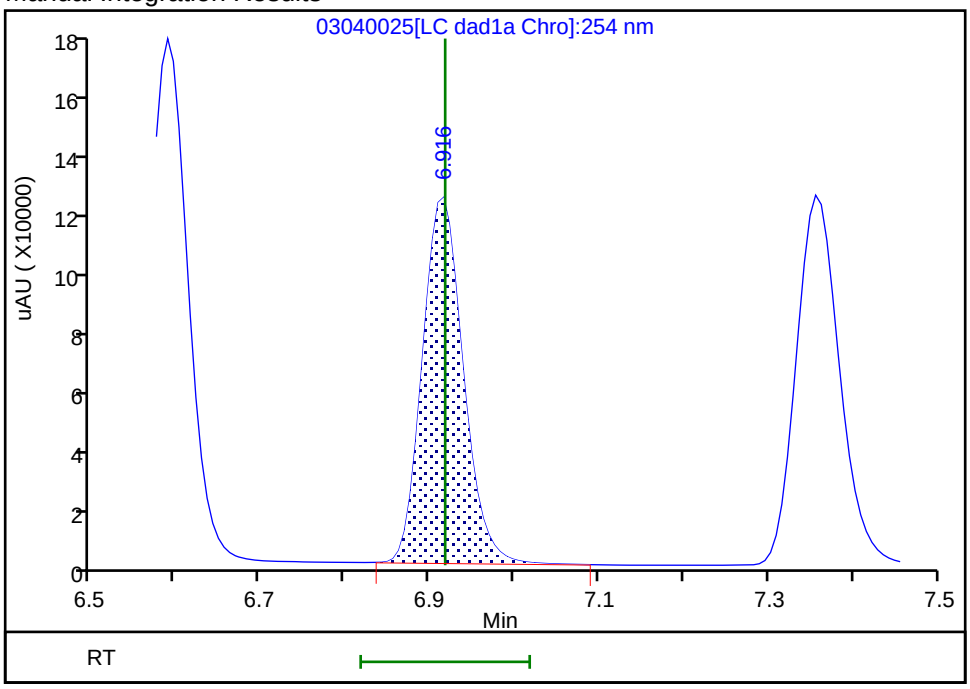
Processing Integration Results

RT: 6.92
Area: 445633
Amount: 2.254277
Amount Units: ug/mL



Manual Integration Results

RT: 6.92
Area: 414714
Amount: 2.711820
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:29:52
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

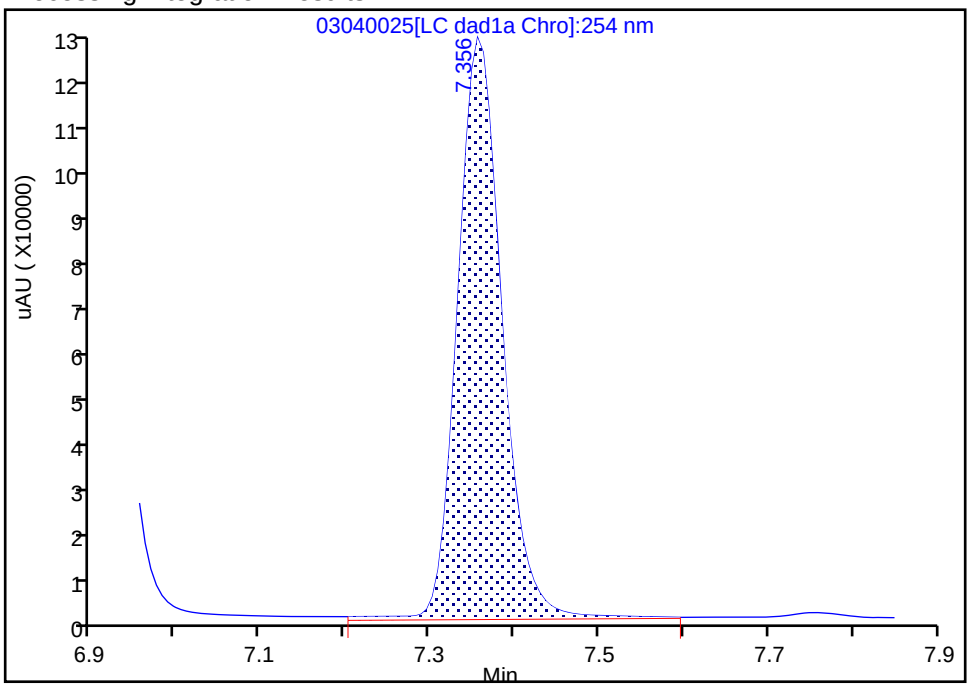
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040025.d				
Injection Date:	04-Mar-2020 21:00:00	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L8				
Client ID:					
Operator ID:	CB	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

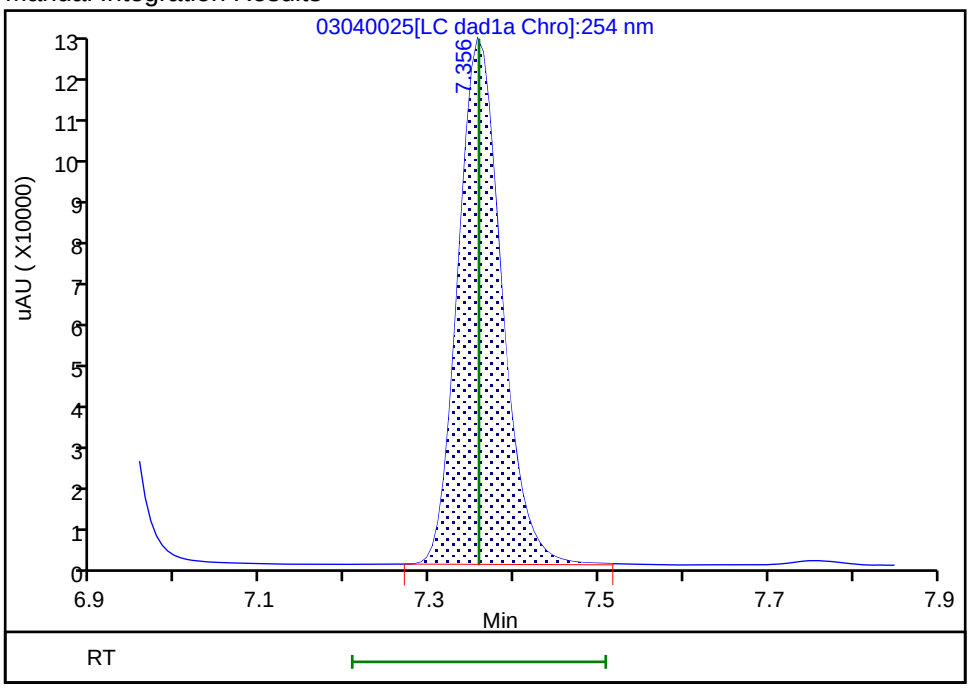
Processing Integration Results

RT: 7.36
Area: 461400
Amount: 2.899748
Amount Units: ug/mL



Manual Integration Results

RT: 7.36
Area: 448024
Amount: 2.825862
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:30:00
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040026.D
Lims ID: IC DMT L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 04-Mar-2020 21:23:03 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC DMT L7
Misc. Info.: 280-0089779-026
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub17

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 06-Mar-2020 10:25:21 Calib Date: 04-Mar-2020 23:40:46
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 05-Mar-2020 08:30:32

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.591	6.591	0.000	219286	1.00	1.01	M
5 DNX	1	6.918	6.918	0.000	164161	1.00	1.07	M
6 MNX	1	7.358	7.358	0.000	180763	1.17	1.14	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00005 Amount Added: 50.00 Units: uL

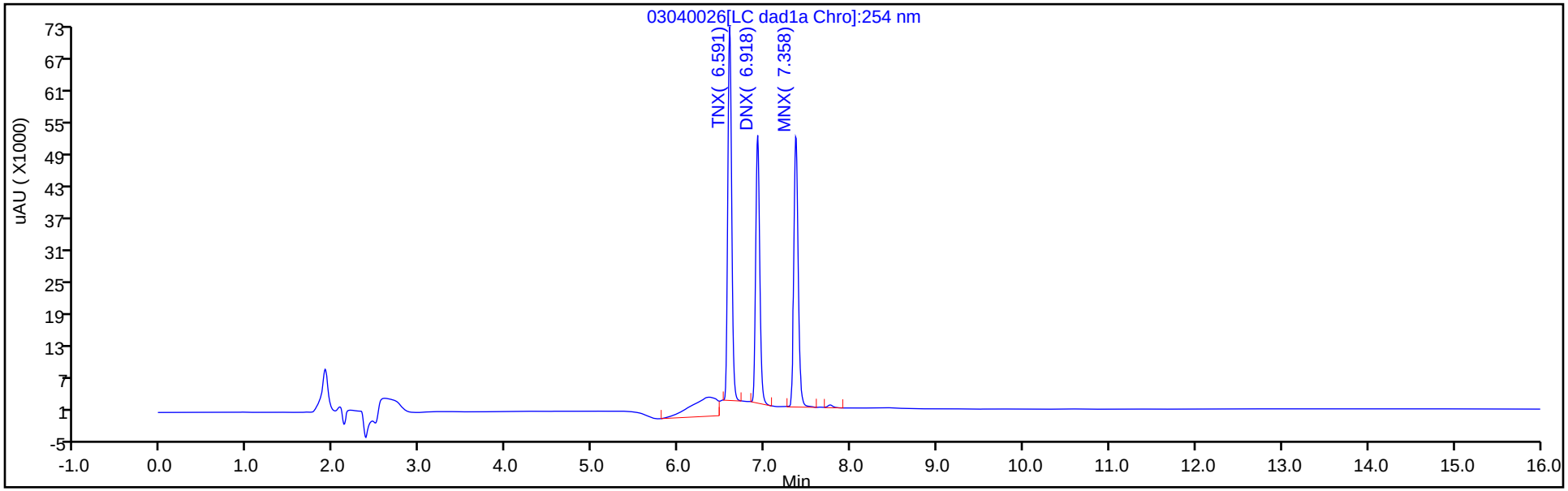
Report Date: 06-Mar-2020 10:25:22 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

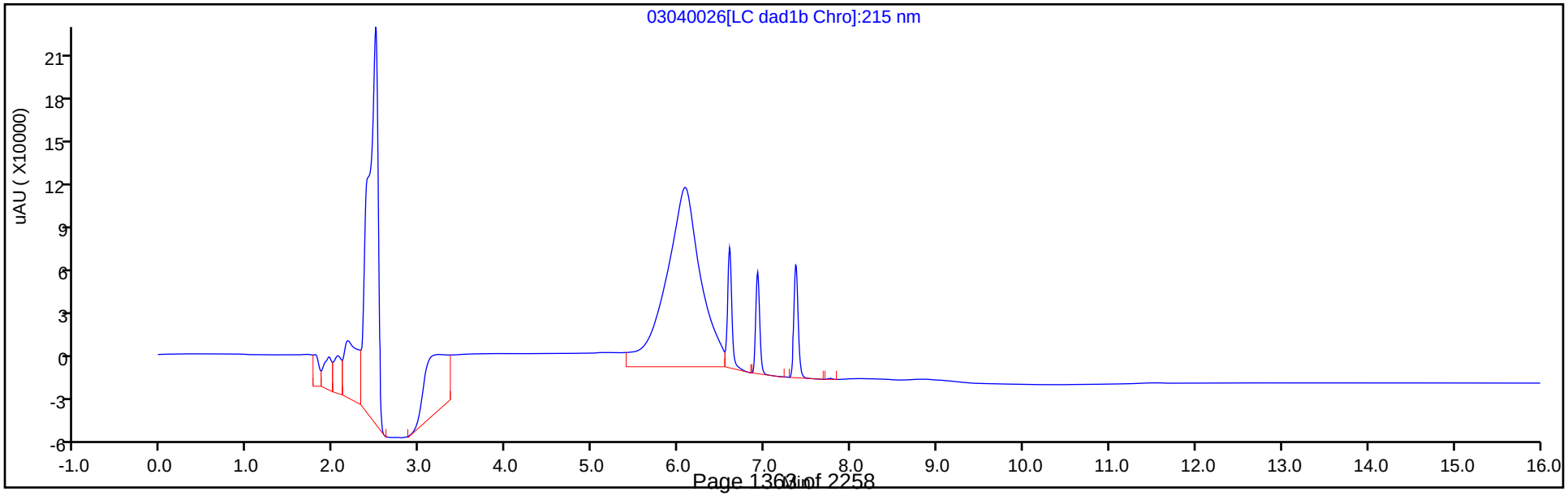
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040026.d

Injection Date:	04-Mar-2020 21:23:03	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC DMT L7			Worklist Smp#:	26
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

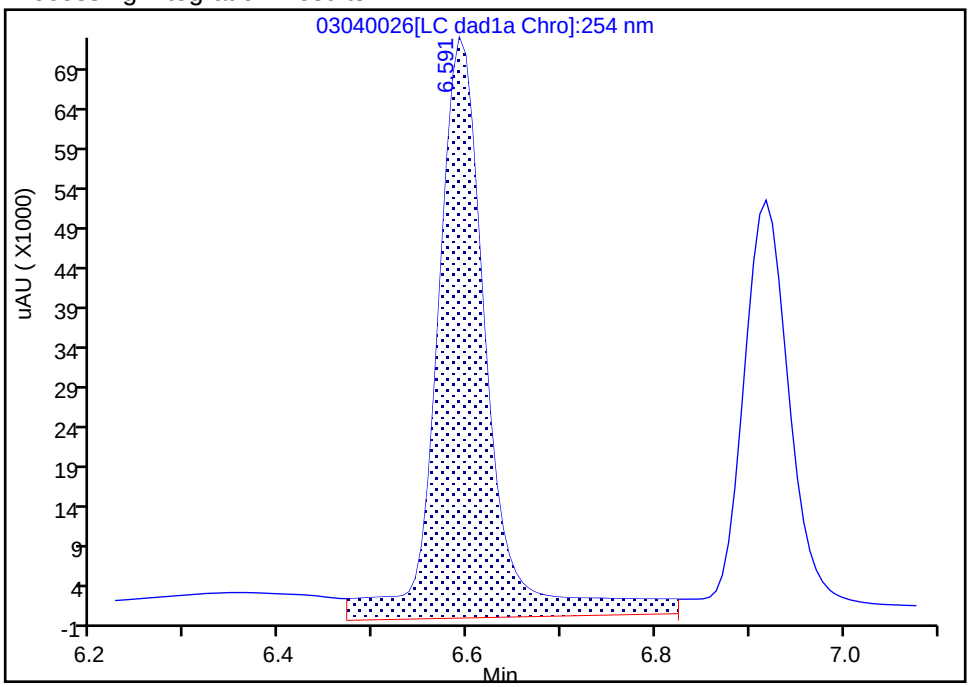
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040026.d
Injection Date: 04-Mar-2020 21:23:03 Instrument ID: CHHPLC_X3
Lims ID: IC DMT L7
Client ID:
Operator ID: CB ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

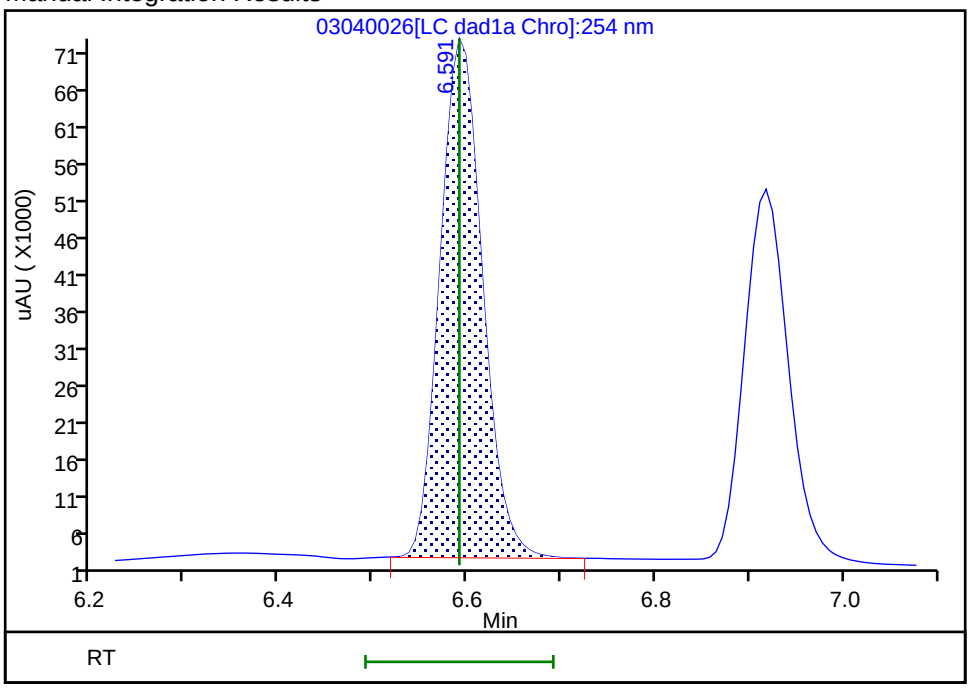
Processing Integration Results

RT: 6.59
Area: 269369
Amount: 1.068967
Amount Units: ug/mL



Manual Integration Results

RT: 6.59
Area: 219286
Amount: 1.007708
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:30:20
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

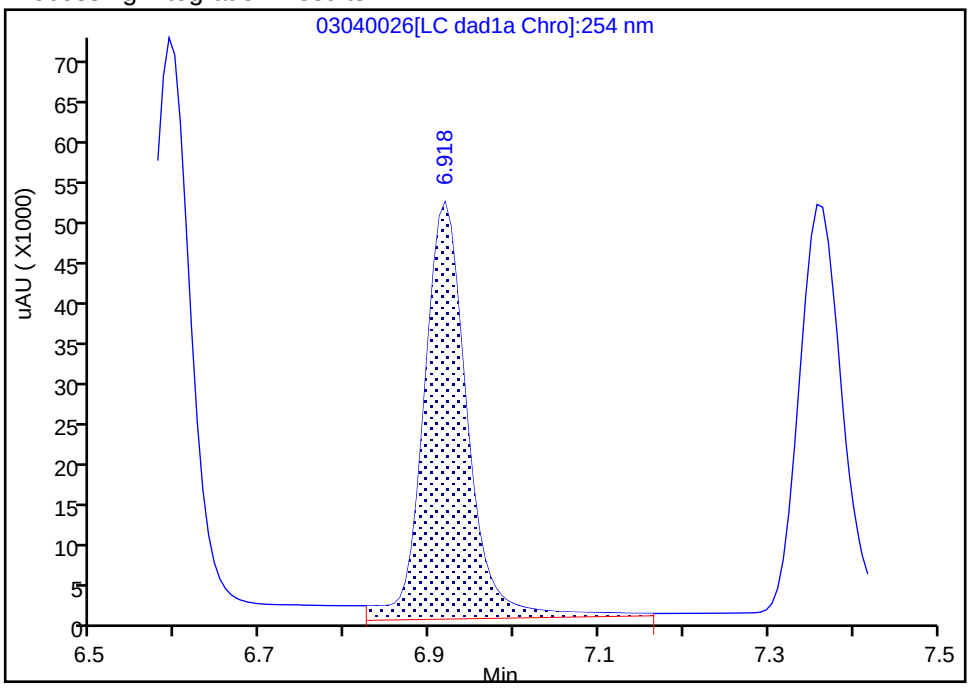
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040026.d				
Injection Date:	04-Mar-2020 21:23:03	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L7				
Client ID:					
Operator ID:	CB	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

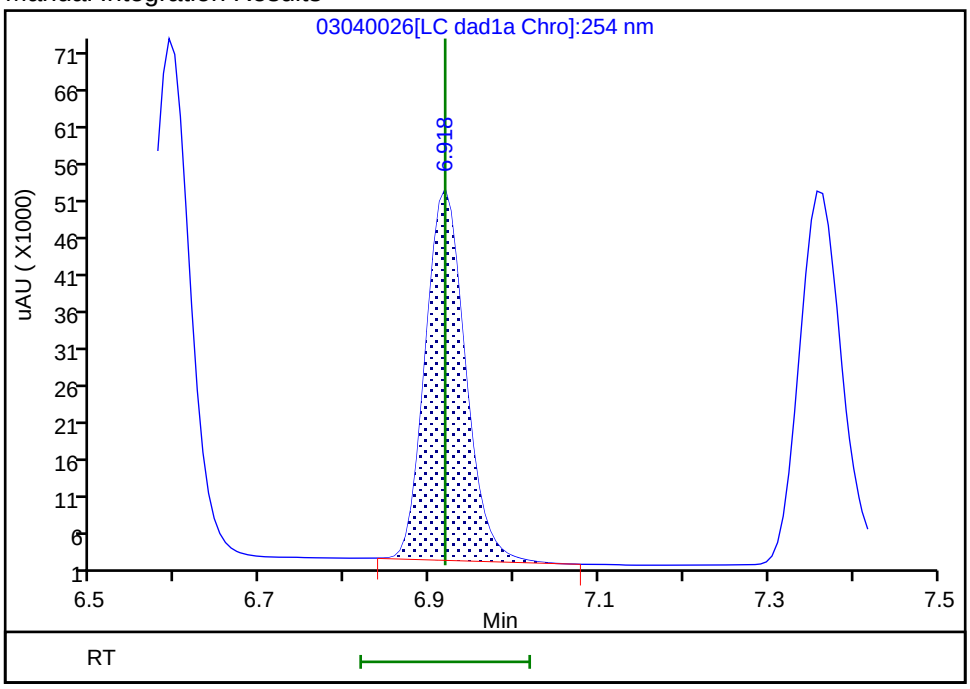
Processing Integration Results

RT: 6.92
Area: 184230
Amount: 0.939283
Amount Units: ug/mL



Manual Integration Results

RT: 6.92
Area: 164161
Amount: 1.073451
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:30:26
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040027.D
Lims ID: IC DMT L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 04-Mar-2020 21:45:58 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC DMT L6
Misc. Info.: 280-0089779-027
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub17

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 06-Mar-2020 10:25:23 Calib Date: 04-Mar-2020 23:40:46
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 05-Mar-2020 08:30:53

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.591	6.591	0.000	148550	0.7007	0.6826	M
5 DNX	1	6.918	6.918	0.000	112549	0.7007	0.7360	M
6 MNX	1	7.358	7.358	0.000	124459	0.8169	0.7850	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00005 Amount Added: 35.00 Units: uL

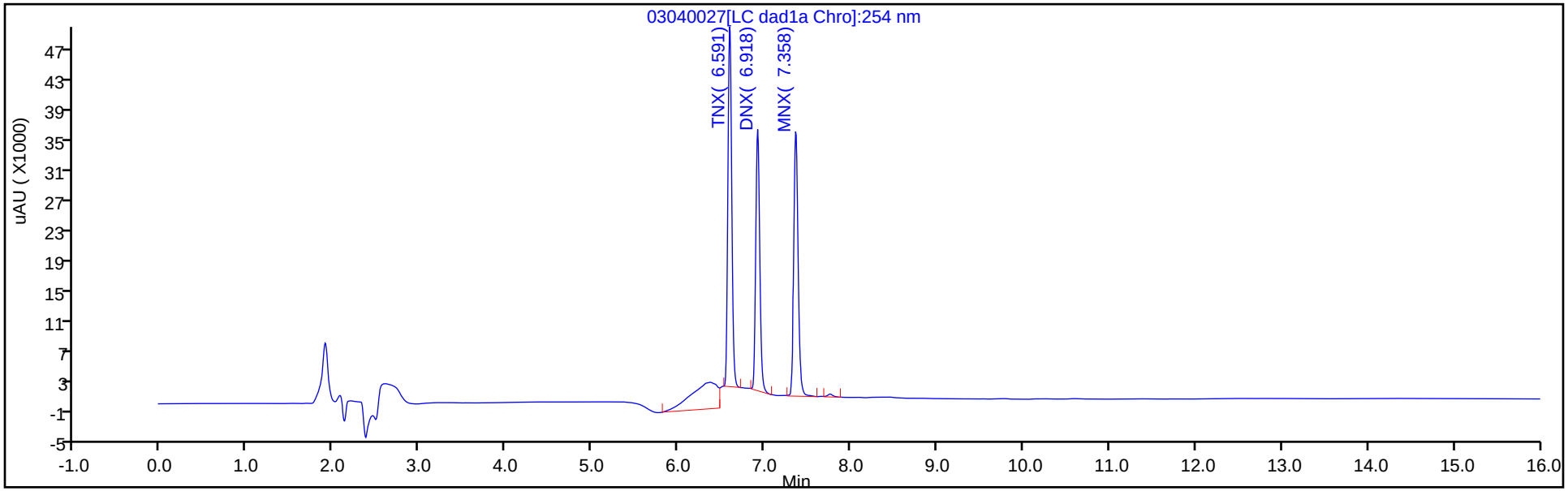
Report Date: 06-Mar-2020 10:25:23 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

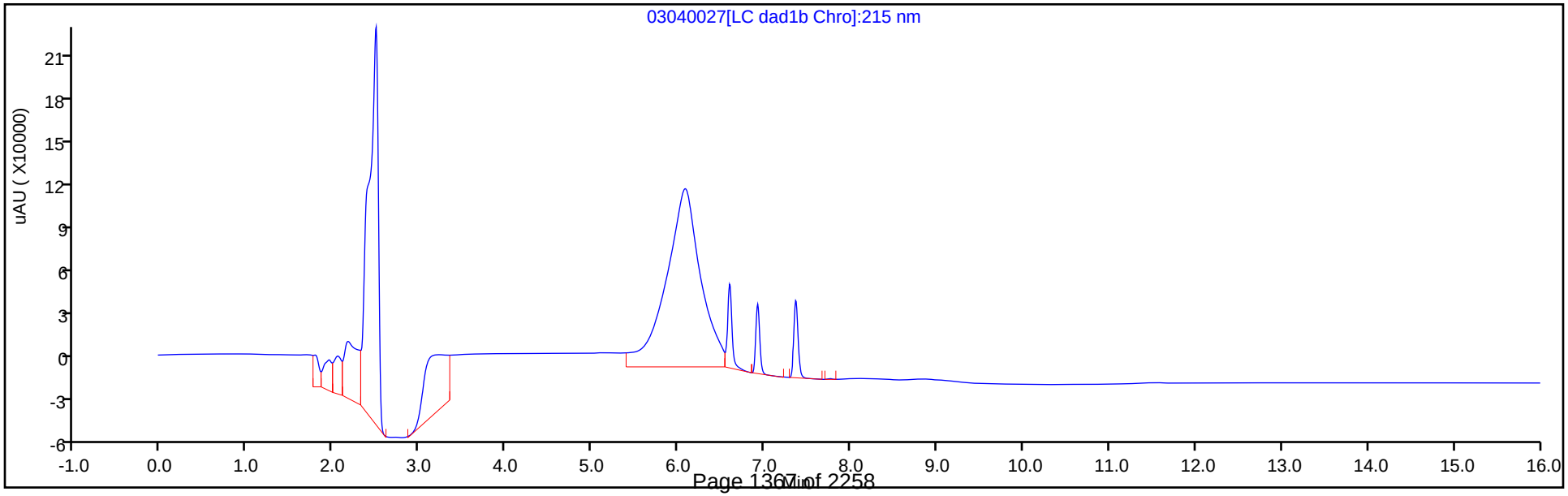
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040027.d

Injection Date:	04-Mar-2020 21:45:58	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC DMT L6			Worklist Smp#:	27
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

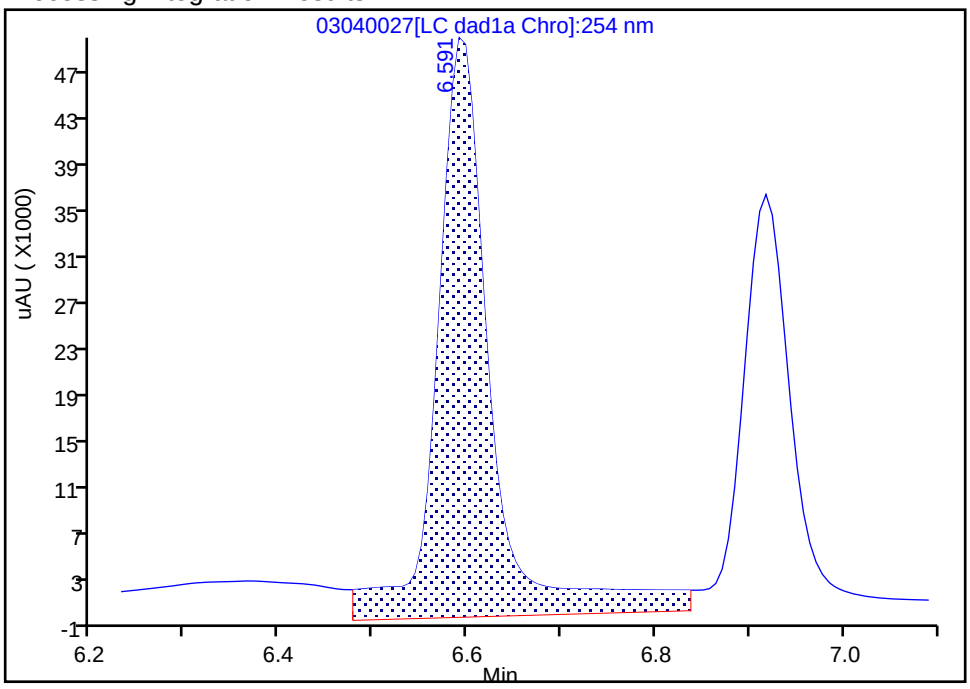
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040027.d				
Injection Date:	04-Mar-2020 21:45:58	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

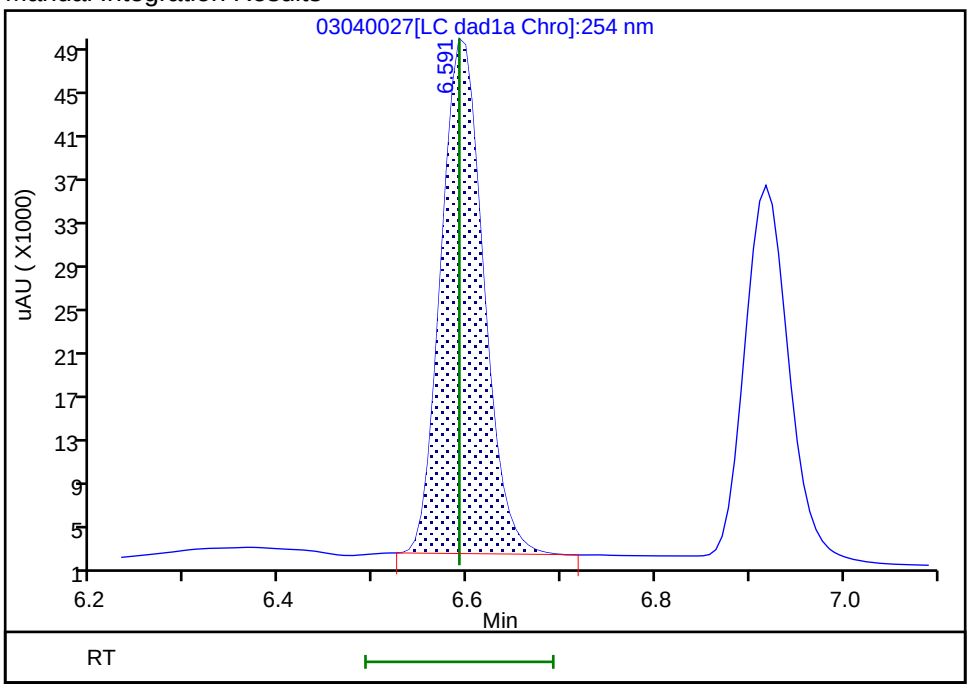
Processing Integration Results

RT: 6.59
Area: 198883
Amount: 0.812342
Amount Units: ug/mL



Manual Integration Results

RT: 6.59
Area: 148550
Amount: 0.682647
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:30:45
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

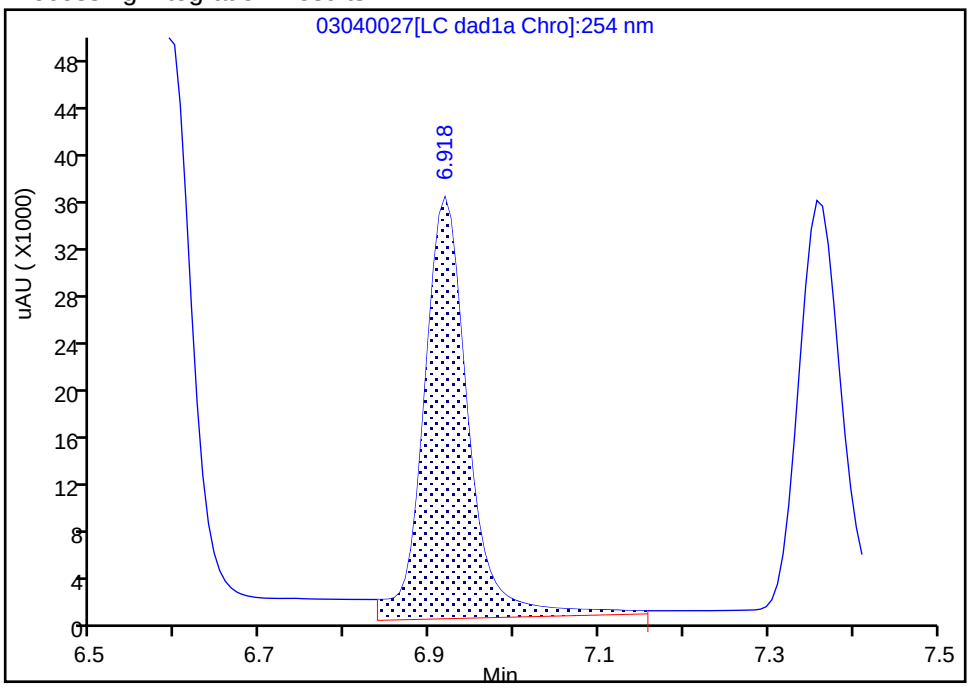
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040027.d				
Injection Date:	04-Mar-2020 21:45:58	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

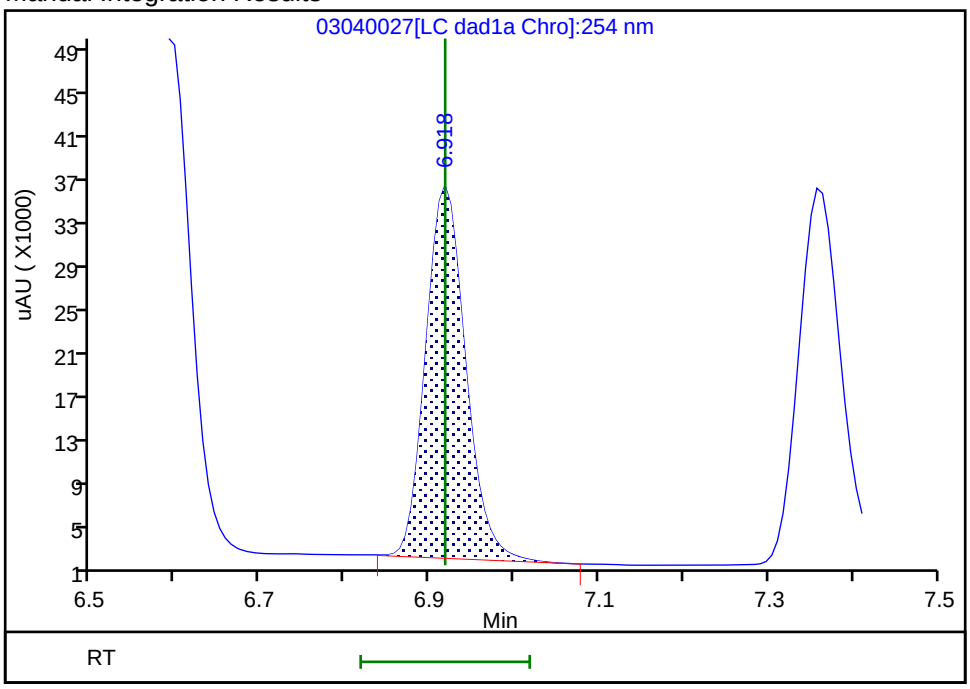
Processing Integration Results

RT: 6.92
Area: 130368
Amount: 0.673274
Amount Units: ug/mL



Manual Integration Results

RT: 6.92
Area: 112549
Amount: 0.735959
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:30:49
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040028.D
Lims ID: IC DMT L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 04-Mar-2020 22:09:00 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC DMT L5
Misc. Info.: 280-0089779-028
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub17

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 06-Mar-2020 10:25:24 Calib Date: 04-Mar-2020 23:40:46
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 05-Mar-2020 08:31:18

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.591	6.591	0.000	85174	0.4004	0.3914	M
5 DNX	1	6.917	6.918	-0.001	64550	0.4004	0.4221	M
6 MNX	1	7.357	7.358	-0.001	73151	0.4668	0.4614	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00005 Amount Added: 20.00 Units: uL

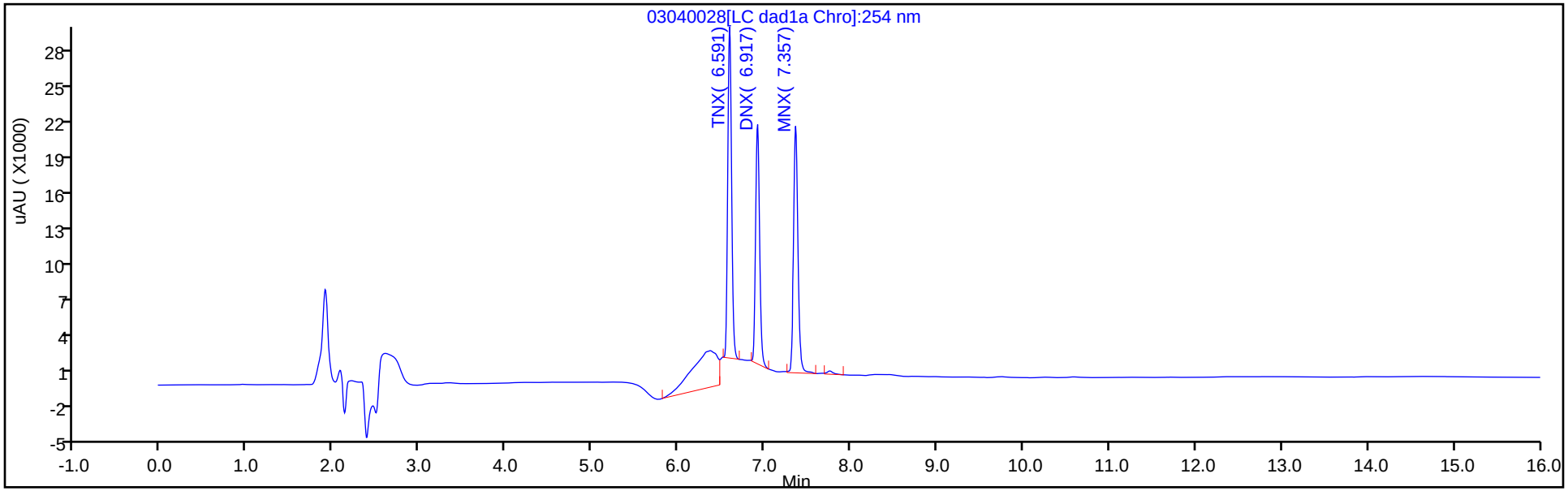
Report Date: 06-Mar-2020 10:25:24 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

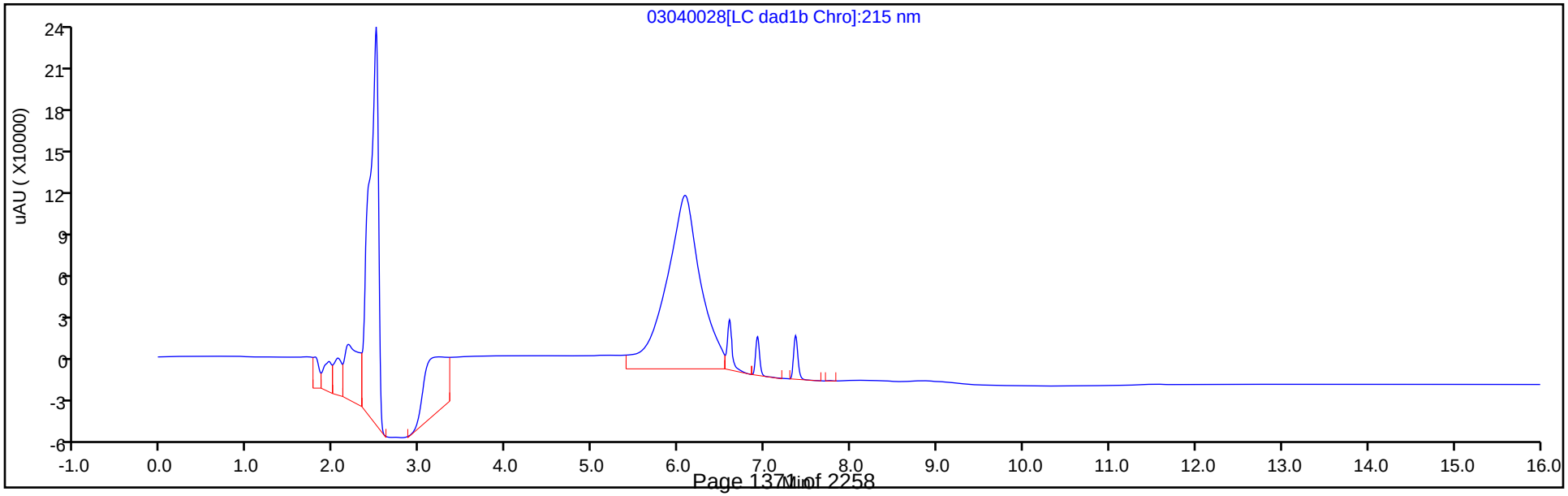
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040028.d

Injection Date:	04-Mar-2020 22:09:00	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC DMT L5			Worklist Smp#:	28
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

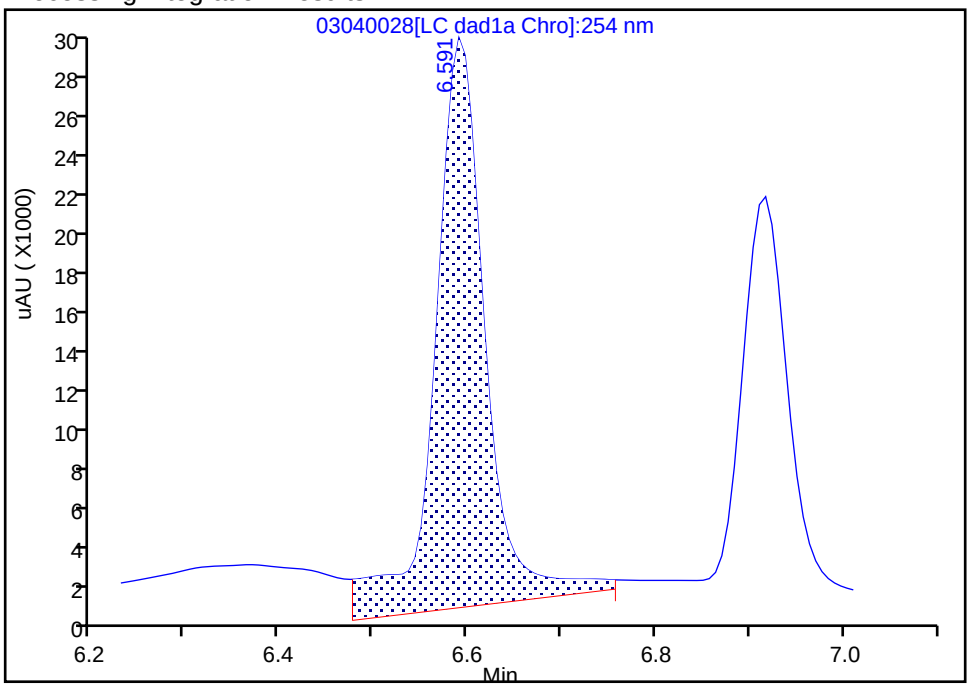
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040028.d
Injection Date: 04-Mar-2020 22:09:00 Instrument ID: CHHPLC_X3
Lims ID: IC DMT L5
Client ID:
Operator ID: CB ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

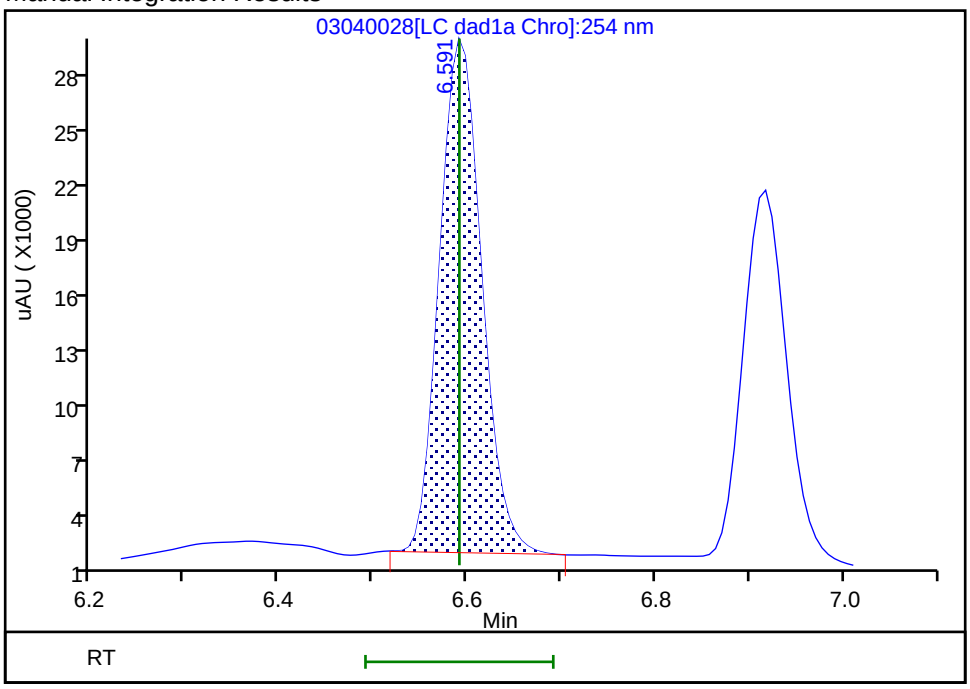
Processing Integration Results

RT: 6.59
Area: 108455
Amount: 0.455381
Amount Units: ug/mL



Manual Integration Results

RT: 6.59
Area: 85174
Amount: 0.391409
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:31:08
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

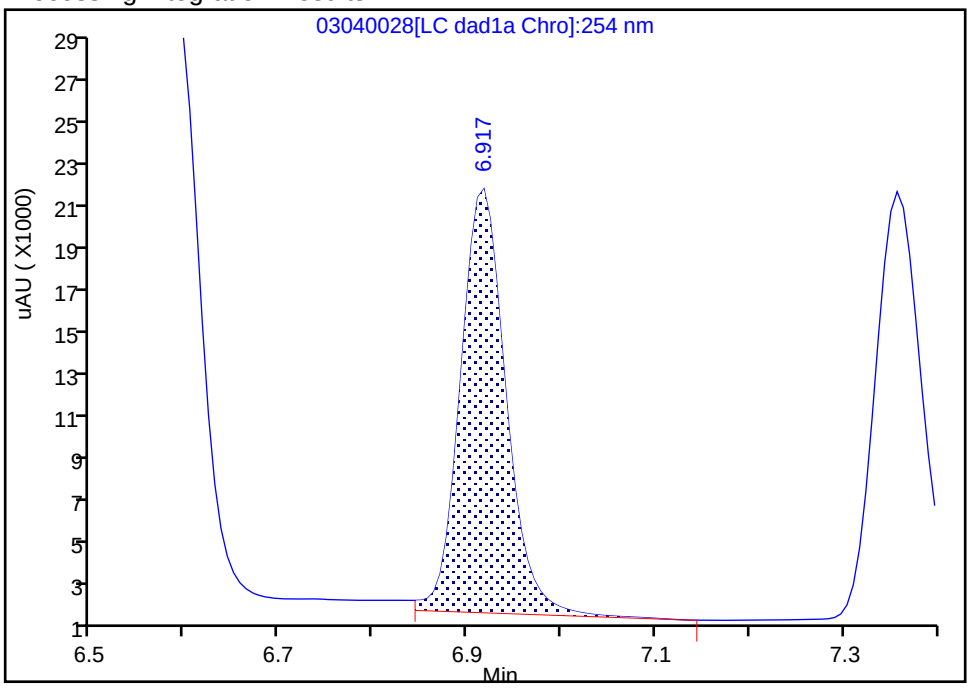
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040028.d				
Injection Date:	04-Mar-2020 22:09:00	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L5				
Client ID:					
Operator ID:	CB	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

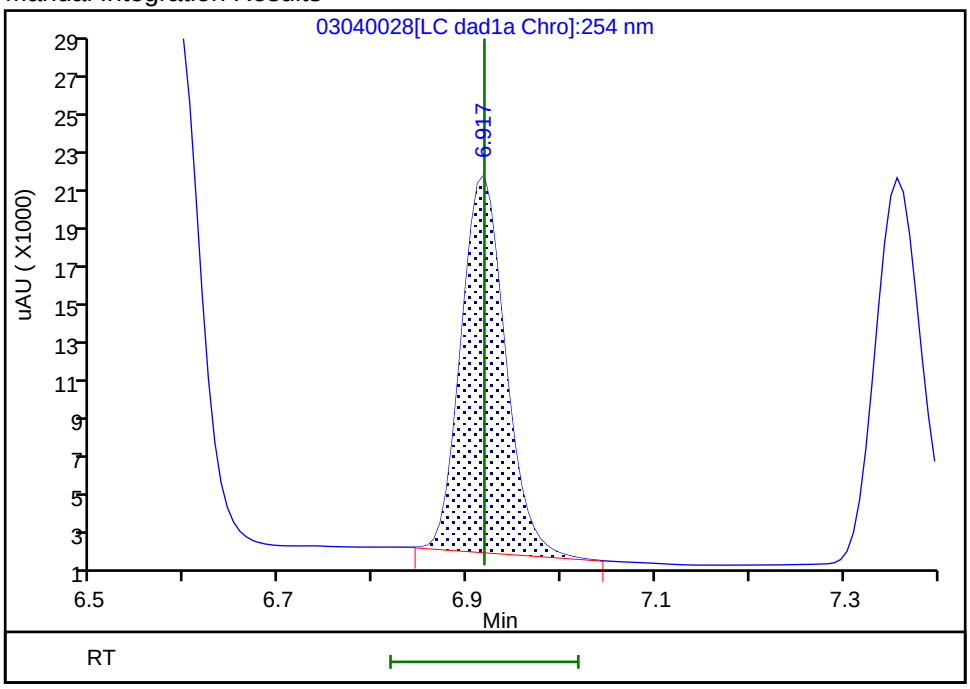
Processing Integration Results

RT: 6.92
Area: 67686
Amount: 0.396160
Amount Units: ug/mL



Manual Integration Results

RT: 6.92
Area: 64550
Amount: 0.422093
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:31:13
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040029.D
Lims ID: IC DMT L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 04-Mar-2020 22:31:57 ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC DMT L4
Misc. Info.: 280-0089779-029
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub17

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 06-Mar-2020 10:25:24 Calib Date: 04-Mar-2020 23:40:46
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 05-Mar-2020 08:31:44

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.591	6.591	0.000	57932	0.2503	0.2662	M
5 DNX	1	6.918	6.918	0.000	41936	0.2503	0.2742	M
6 MNX	1	7.358	7.358	0.000	46005	0.2918	0.2902	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00005 Amount Added: 12.50 Units: uL

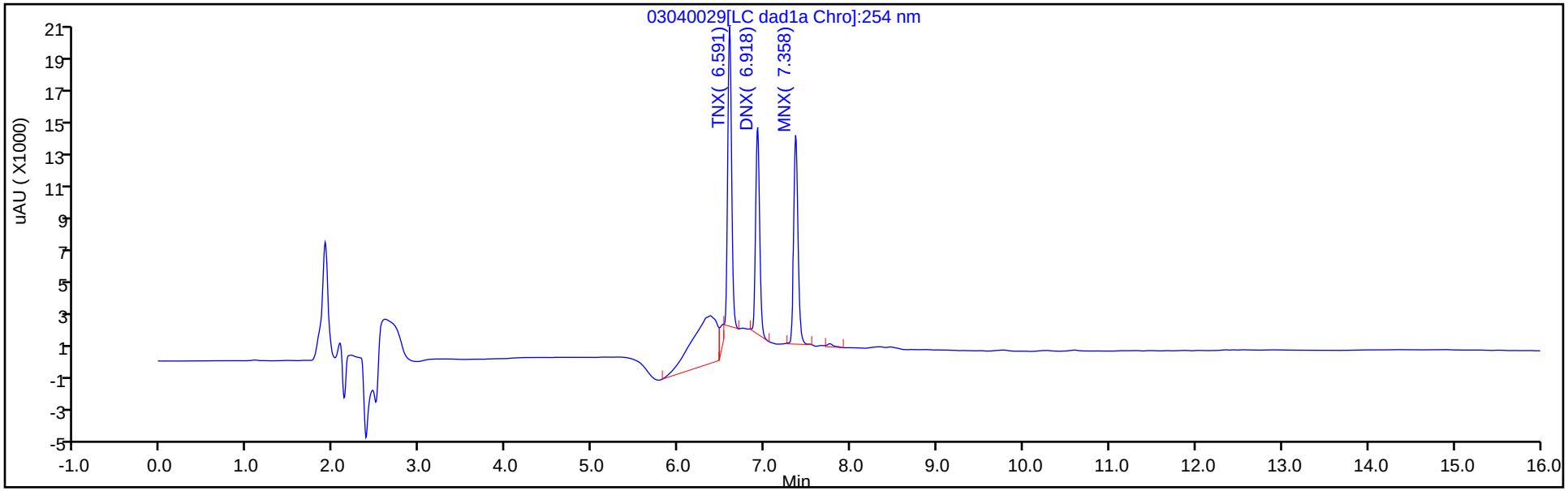
Report Date: 06-Mar-2020 10:25:25 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

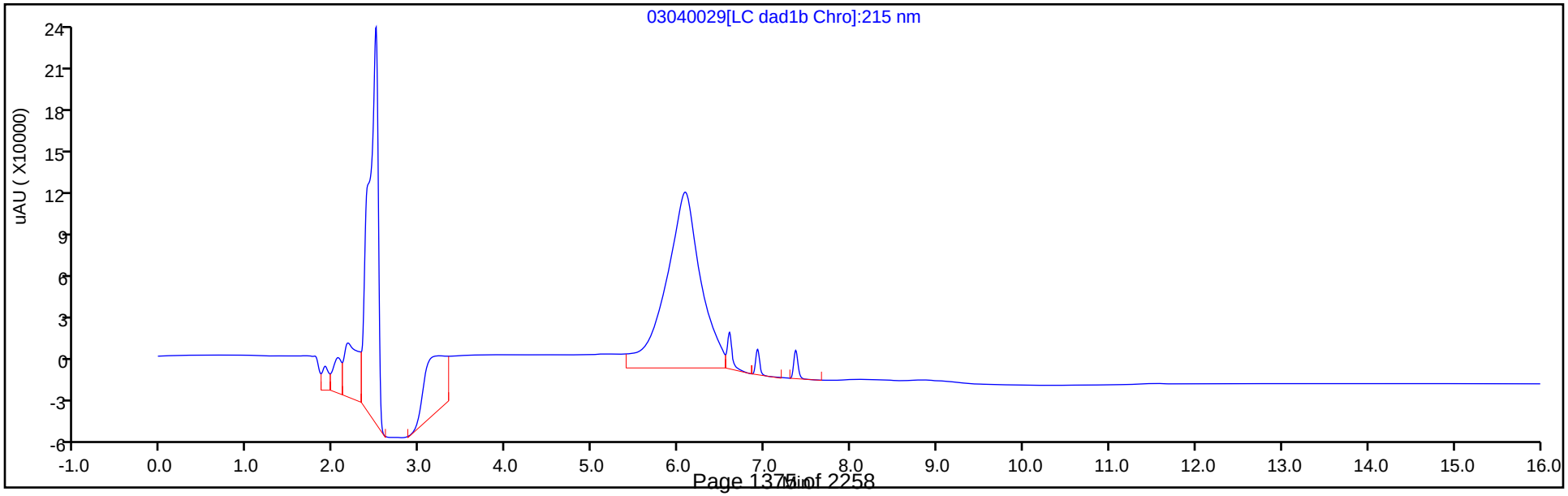
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040029.d

Injection Date:	04-Mar-2020 22:31:57	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC DMT L4			Worklist Smp#:	29
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

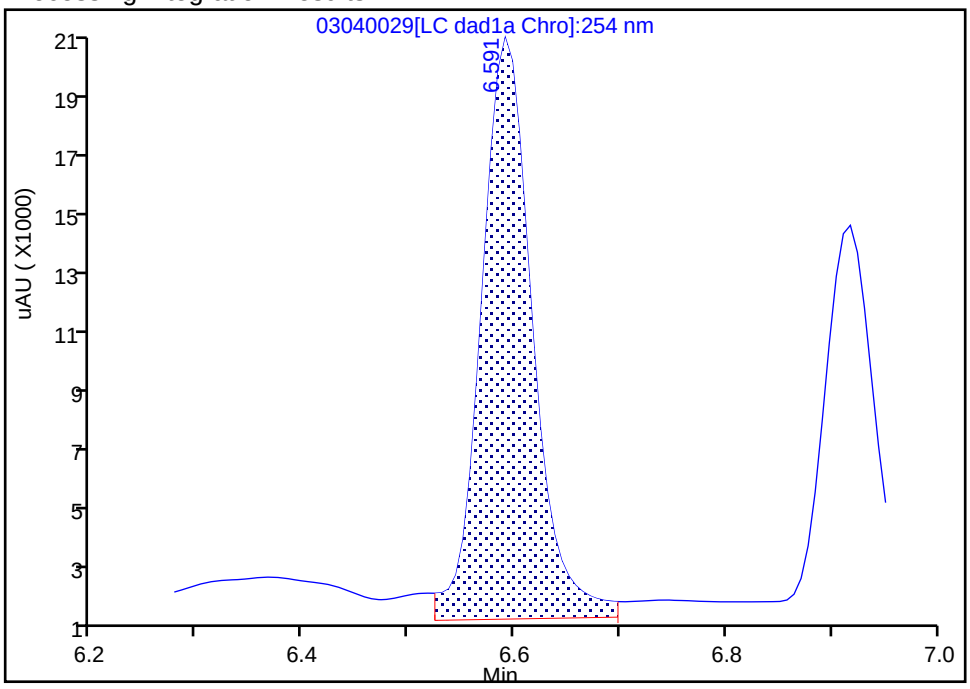
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040029.d
Injection Date: 04-Mar-2020 22:31:57 Instrument ID: CHHPLC_X3
Lims ID: IC DMT L4
Client ID:
Operator ID: CB ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

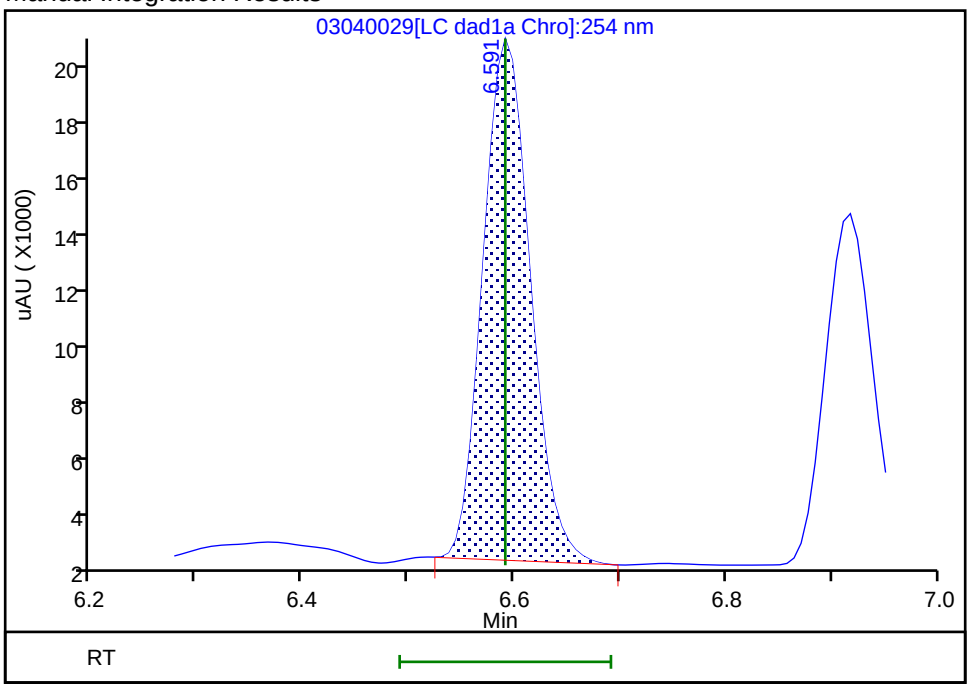
Processing Integration Results

RT: 6.59
Area: 65279
Amount: 0.274722
Amount Units: ug/mL



Manual Integration Results

RT: 6.59
Area: 57932
Amount: 0.266221
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:31:35
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

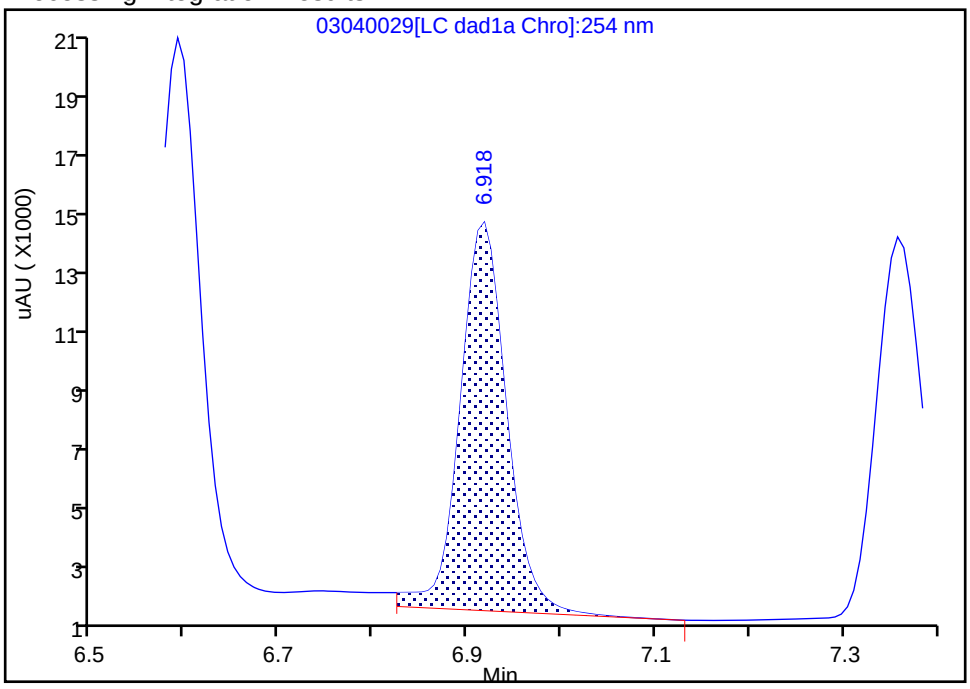
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040029.d				
Injection Date:	04-Mar-2020 22:31:57	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L4				
Client ID:					
Operator ID:	CB	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

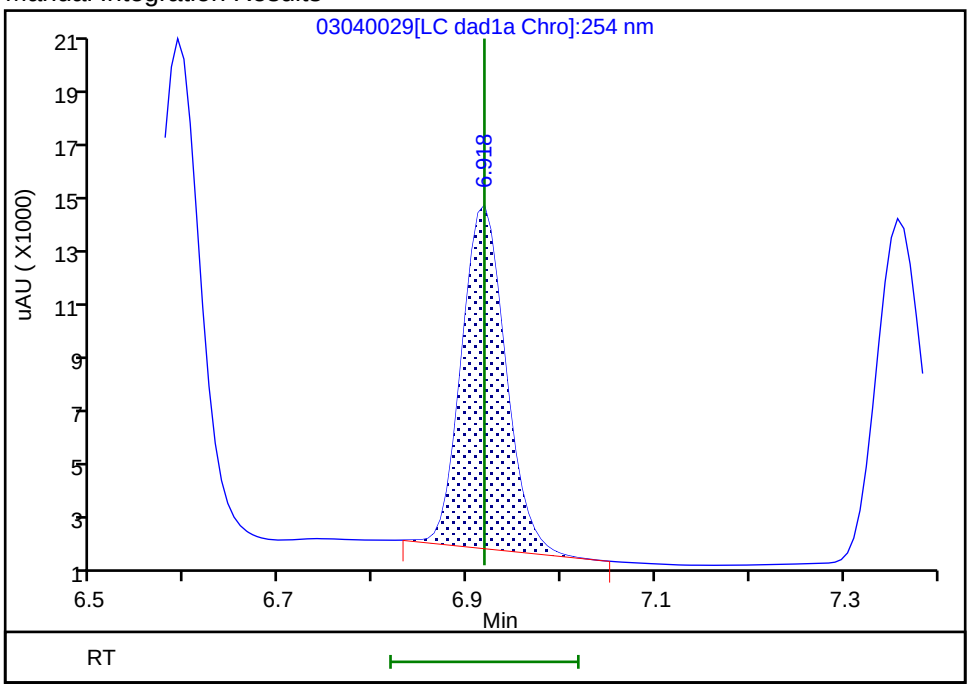
Processing Integration Results

RT: 6.92
Area: 45380
Amount: 0.263025
Amount Units: ug/mL



Manual Integration Results

RT: 6.92
Area: 41936
Amount: 0.274220
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:31:40

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040030.D				
Lims ID:	IC DMT L3				
Client ID:					
Sample Type:	IC	Calib Level:	3		
Inject. Date:	04-Mar-2020 22:54:53	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	IC DMT L3				
Misc. Info.:	280-0089779-030				
Operator ID:	CB	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	06-Mar-2020 10:25:25	Calib Date:	04-Mar-2020 23:40:46		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX0308				
First Level Reviewer: beckerc		Date:	05-Mar-2020 08:32:08		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.589	6.591	-0.002	21002	0.1001	0.0965	M
5 DNX	1	6.915	6.918	-0.003	14937	0.1001	0.0977	M
6 MNX	1	7.355	7.358	-0.003	18233	0.1167	0.1150	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00005 Amount Added: 5.00 Units: uL

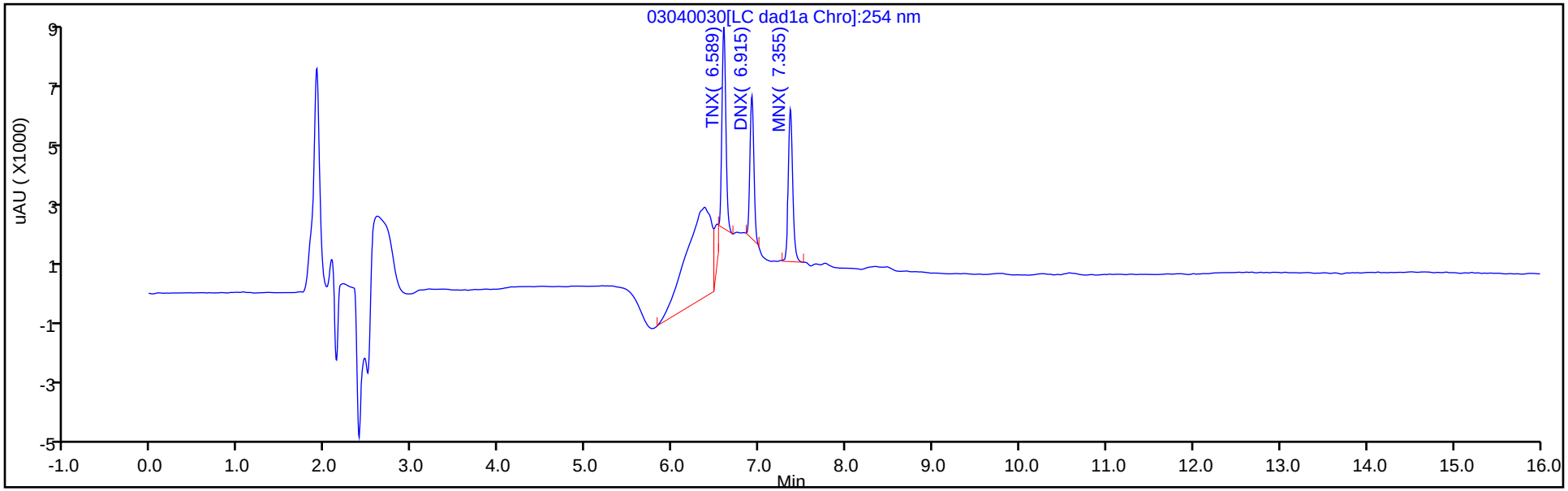
Report Date: 06-Mar-2020 10:25:26 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

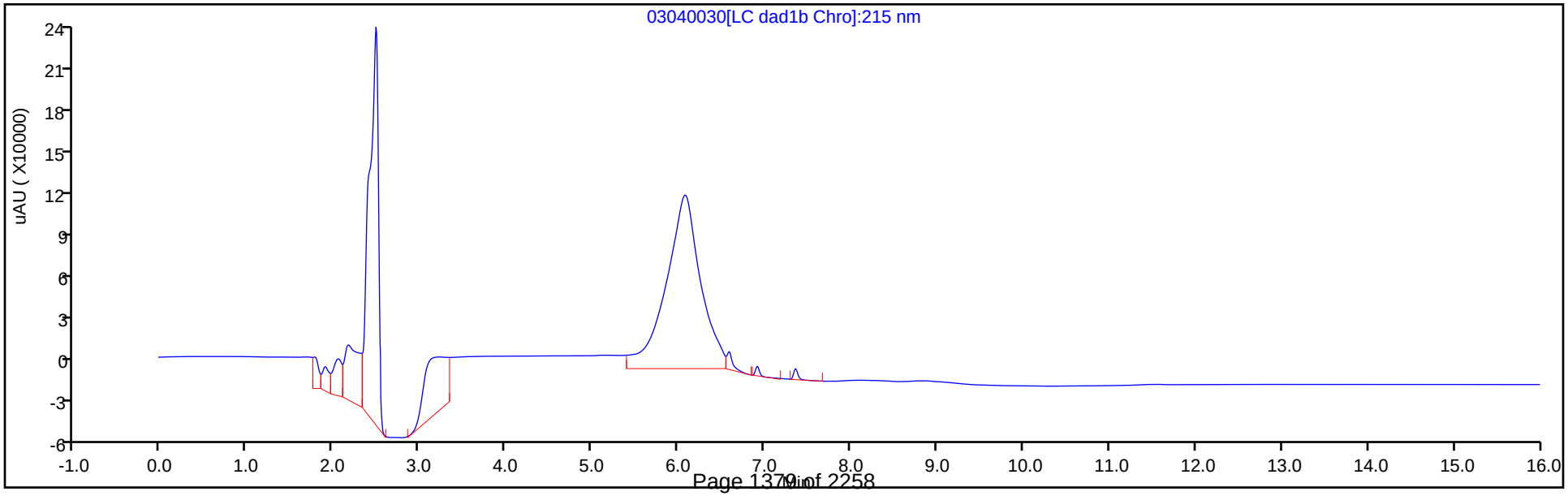
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040030.d

Injection Date:	04-Mar-2020 22:54:53	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC DMT L3			Worklist Smp#:	30
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

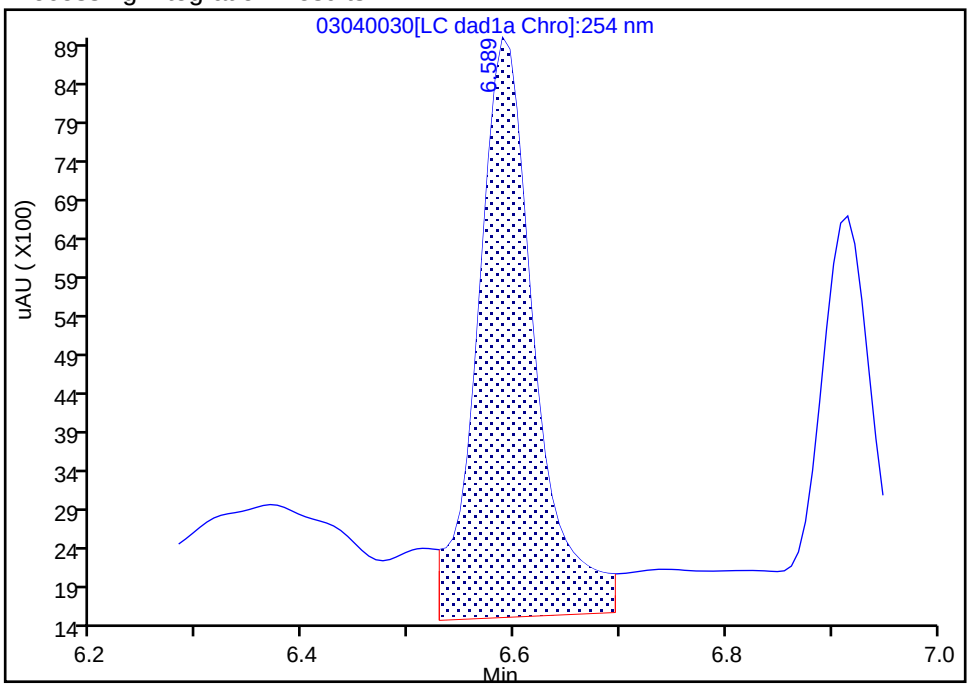
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040030.d				
Injection Date:	04-Mar-2020 22:54:53	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

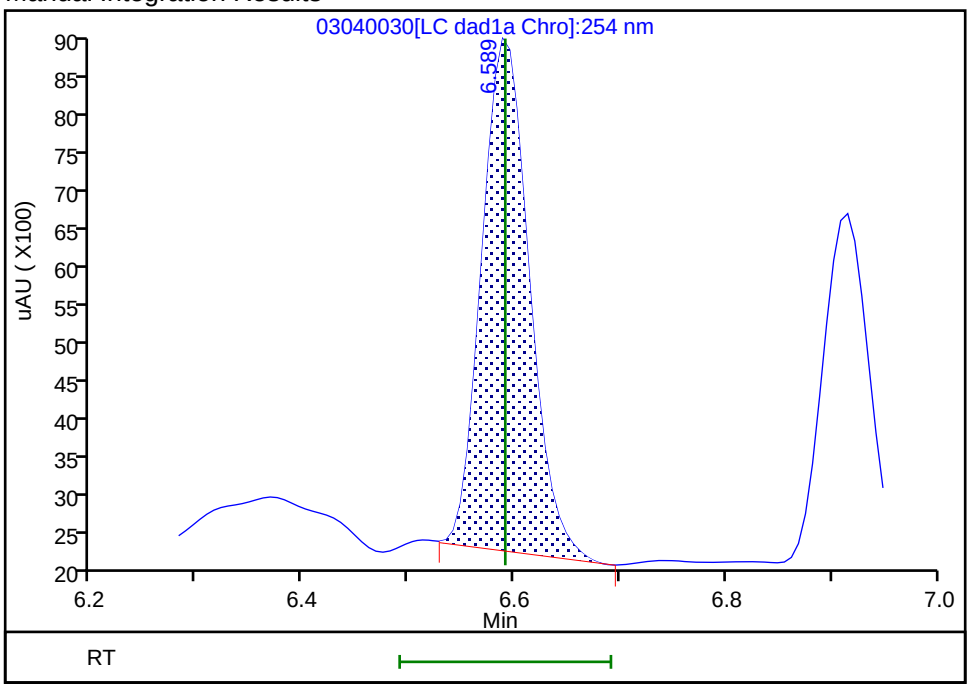
Processing Integration Results

RT: 6.59
Area: 27927
Amount: 0.102862
Amount Units: ug/mL



Manual Integration Results

RT: 6.59
Area: 21002
Amount: 0.096513
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:31:59
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

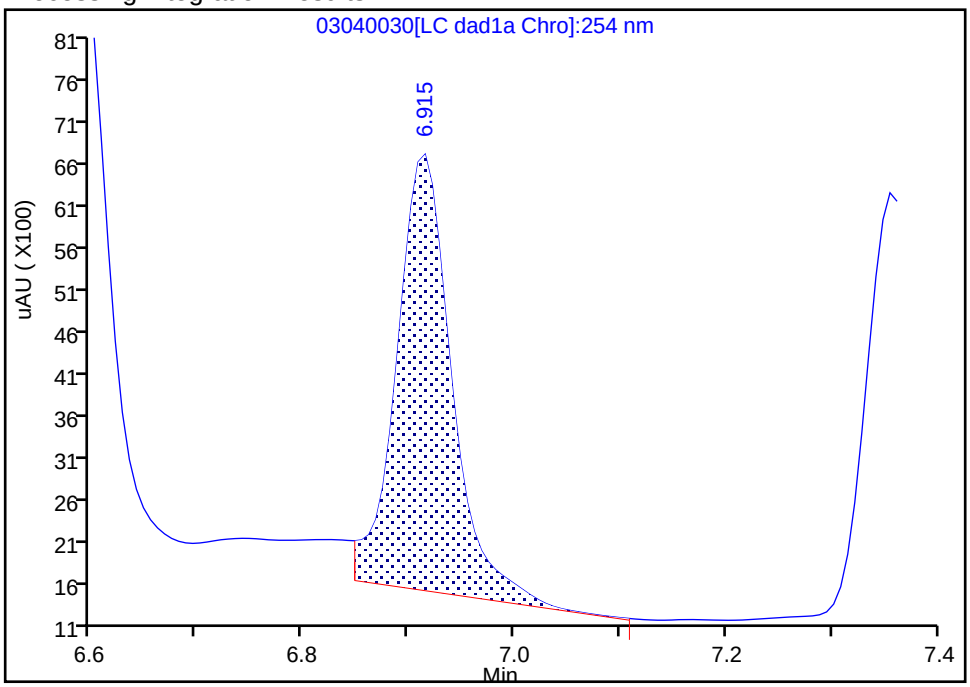
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040030.d				
Injection Date:	04-Mar-2020 22:54:53	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L3				
Client ID:					
Operator ID:	CB	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

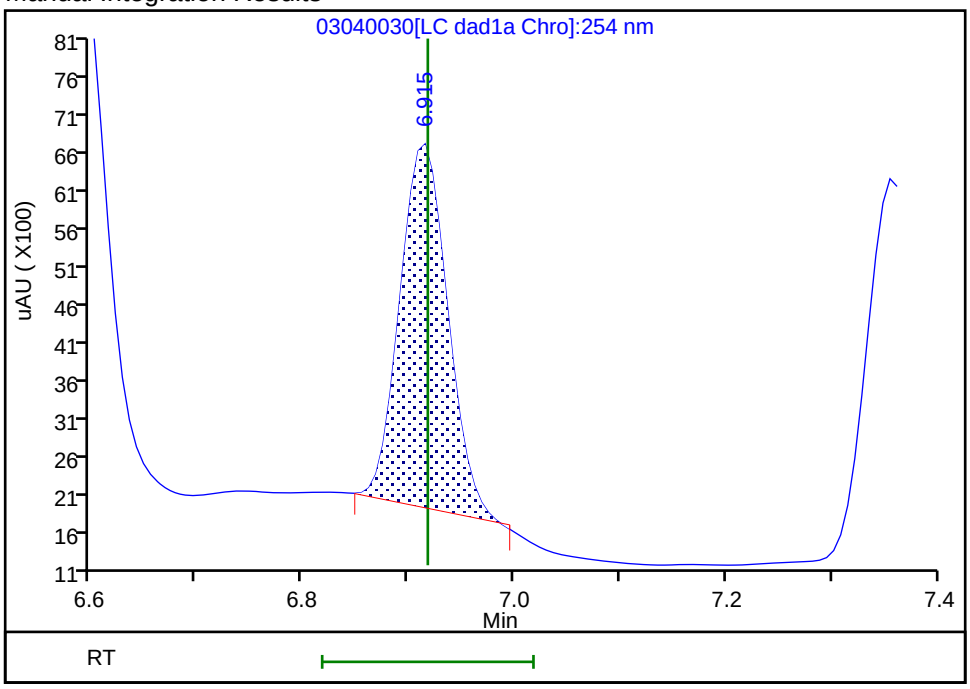
Processing Integration Results

RT: 6.92
Area: 18794
Amount: 0.101797
Amount Units: ug/mL



Manual Integration Results

RT: 6.92
Area: 14937
Amount: 0.097673
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:32:04
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040031.D
Lims ID: IC DMT L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 04-Mar-2020 23:17:52 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC DMT L2
Misc. Info.: 280-0089779-031
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub17

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 06-Mar-2020 10:25:26 Calib Date: 04-Mar-2020 23:40:46
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 05-Mar-2020 08:32:31

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.588	6.591	-0.003	10671	0.0501	0.0490	M
5 DNX	1	6.914	6.918	-0.004	6904	0.0501	0.0451	M
6 MNX	1	7.354	7.358	-0.004	9411	0.0584	0.0594	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00005 Amount Added: 2.50 Units: uL

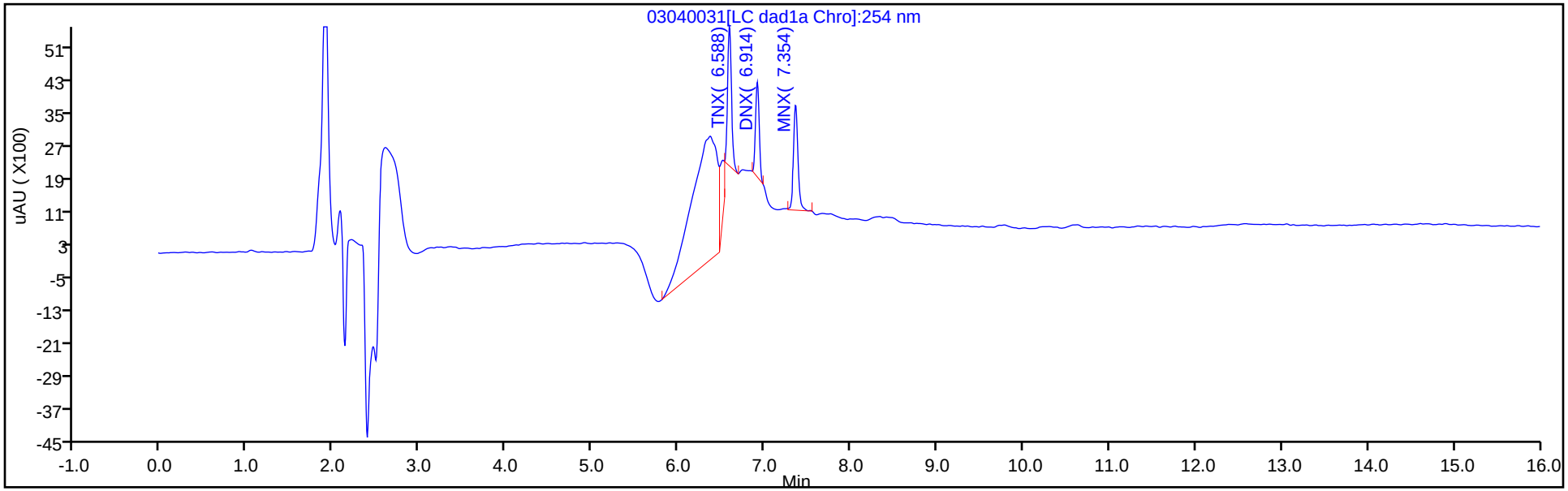
Report Date: 06-Mar-2020 10:25:27 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

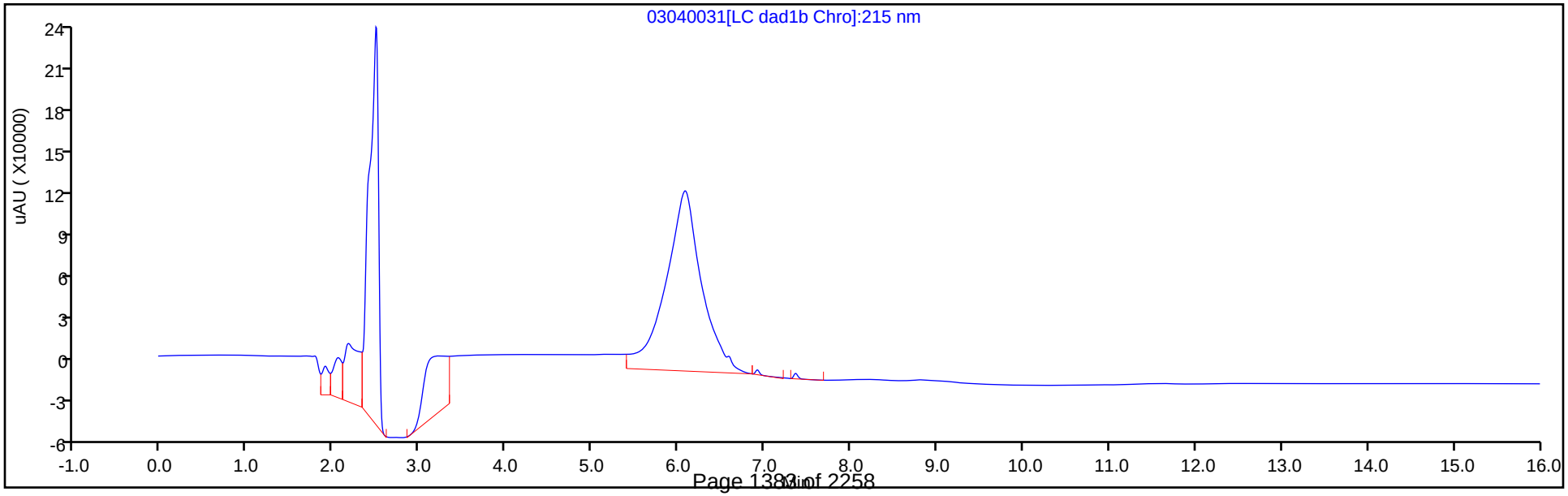
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040031.d

Injection Date:	04-Mar-2020 23:17:52	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC DMT L2			Worklist Smp#:	31
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

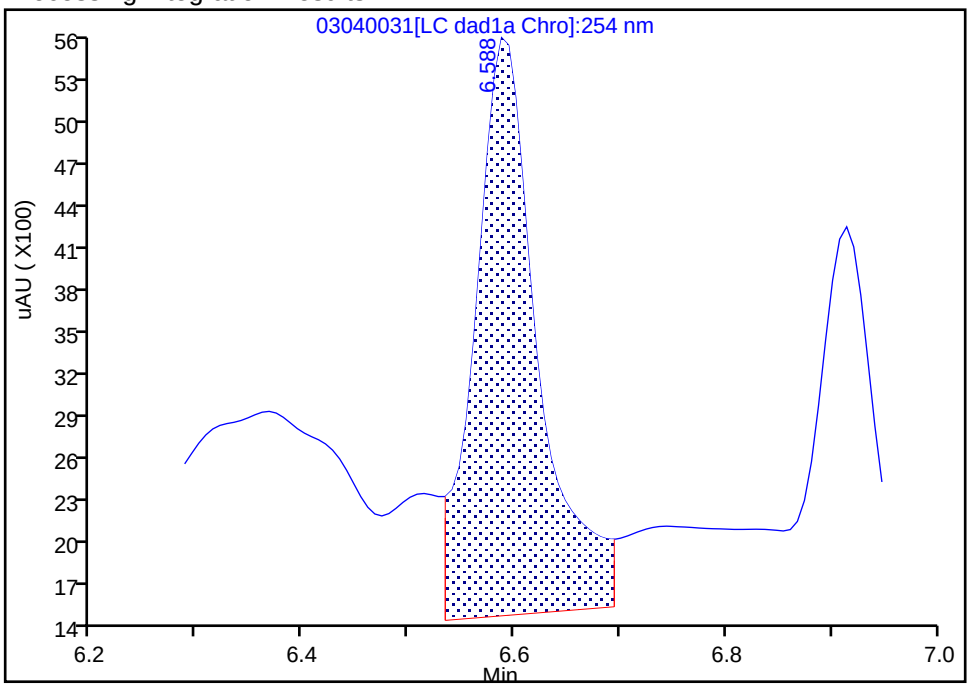
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040031.d				
Injection Date:	04-Mar-2020 23:17:52	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L2				
Client ID:					
Operator ID:	CB	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

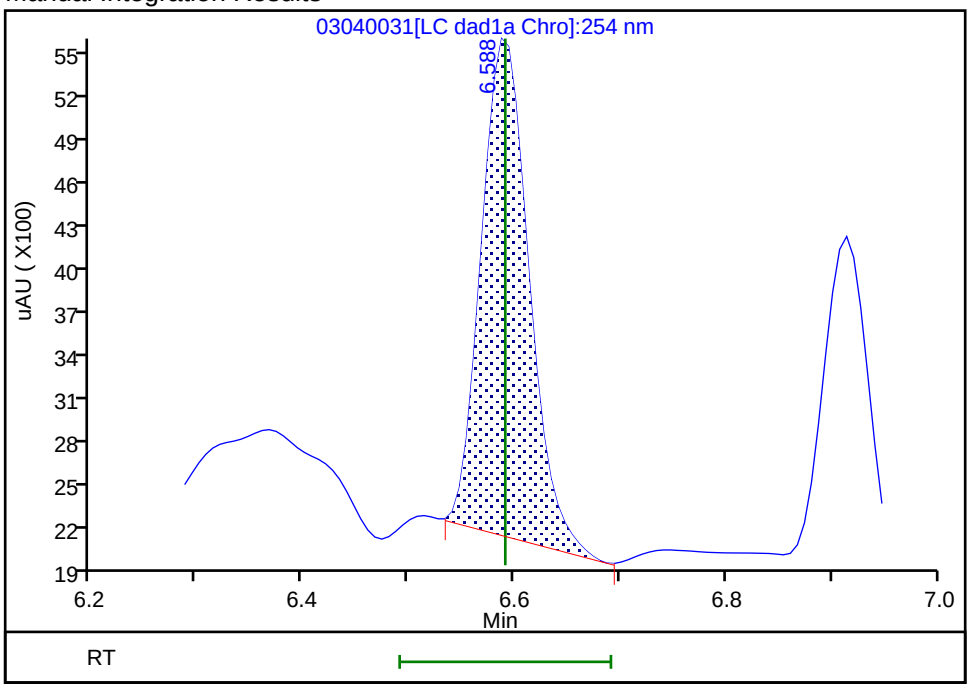
Processing Integration Results

RT: 6.59
Area: 17098
Amount: 0.055915
Amount Units: ug/mL



Manual Integration Results

RT: 6.59
Area: 10671
Amount: 0.049038
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:32:24
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

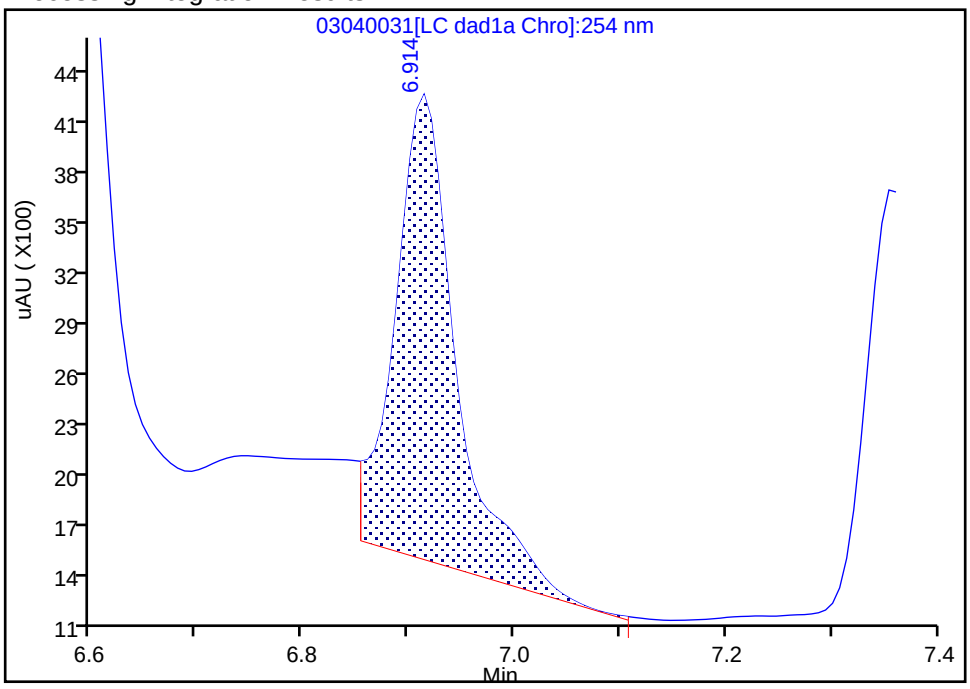
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040031.d				
Injection Date:	04-Mar-2020 23:17:52	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L2				
Client ID:					
Operator ID:	CB	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

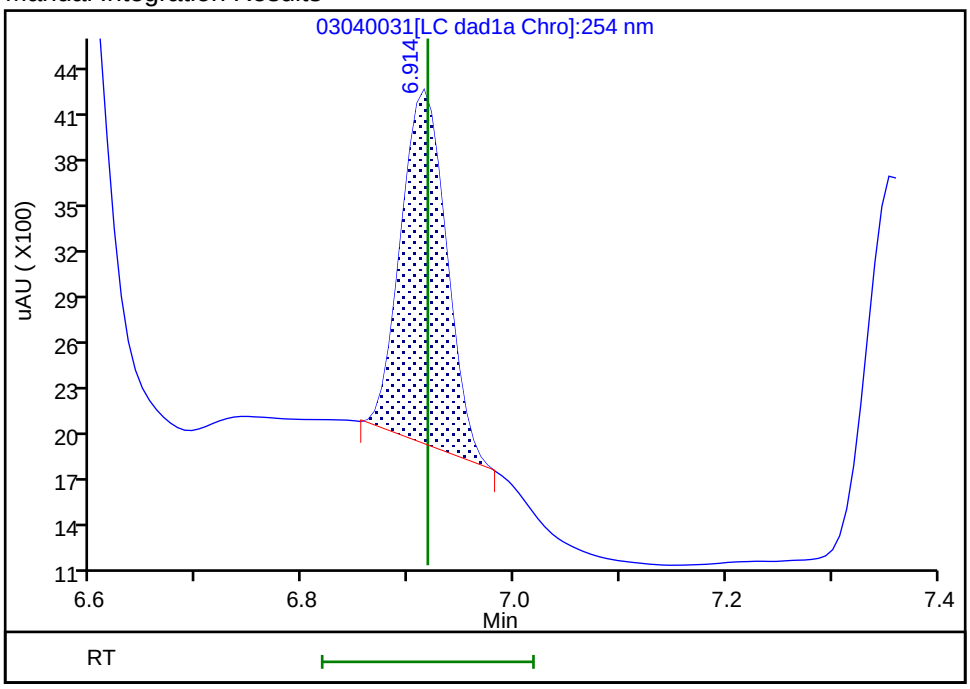
Processing Integration Results

RT: 6.91
Area: 11060
Amount: 0.055514
Amount Units: ug/mL



Manual Integration Results

RT: 6.91
Area: 6904
Amount: 0.045145
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:32:28

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D
Lims ID: IC DMT L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 04-Mar-2020 23:40:46 ALS Bottle#: 32 Worklist Smp#: 32
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC DMT L1
Misc. Info.: 280-0089779-032
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub17

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 06-Mar-2020 10:25:27 Calib Date: 04-Mar-2020 23:40:46
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 05-Mar-2020 08:32:54

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.592	6.591	0.001	4343	0.0200	0.0200	M
5 DNX	1	6.912	6.918	-0.006	2345	0.0200	0.0153	M
6 MNX	1	7.359	7.358	0.001	4099	0.0233	0.0259	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00005 Amount Added: 1.00 Units: uL

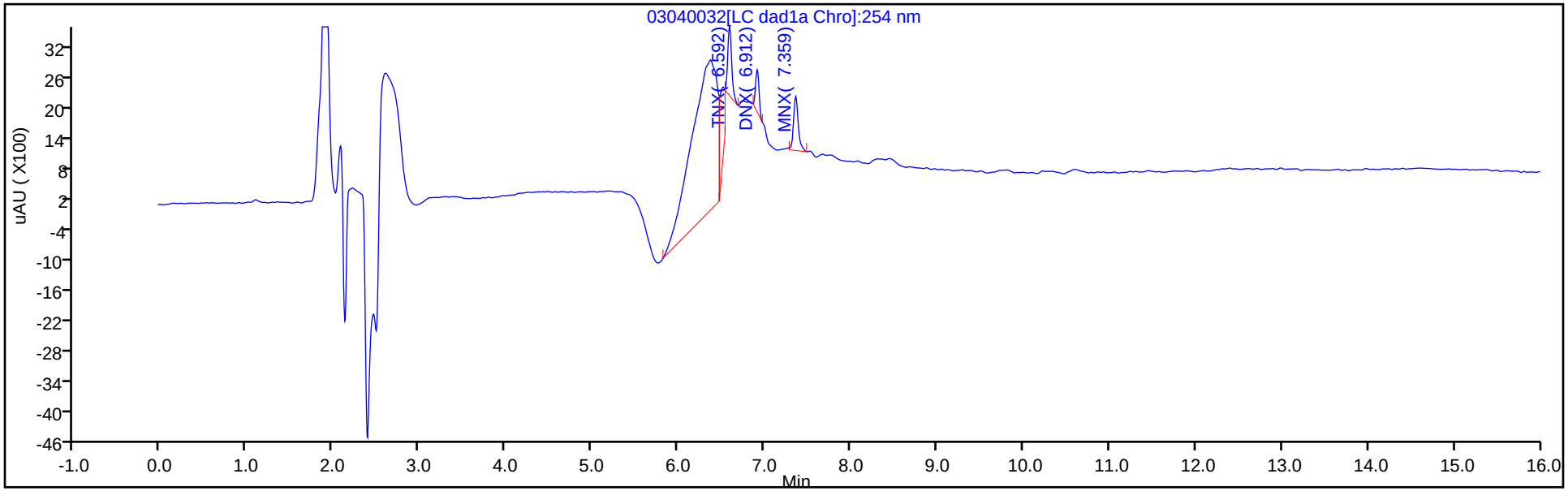
Report Date: 06-Mar-2020 10:25:28 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

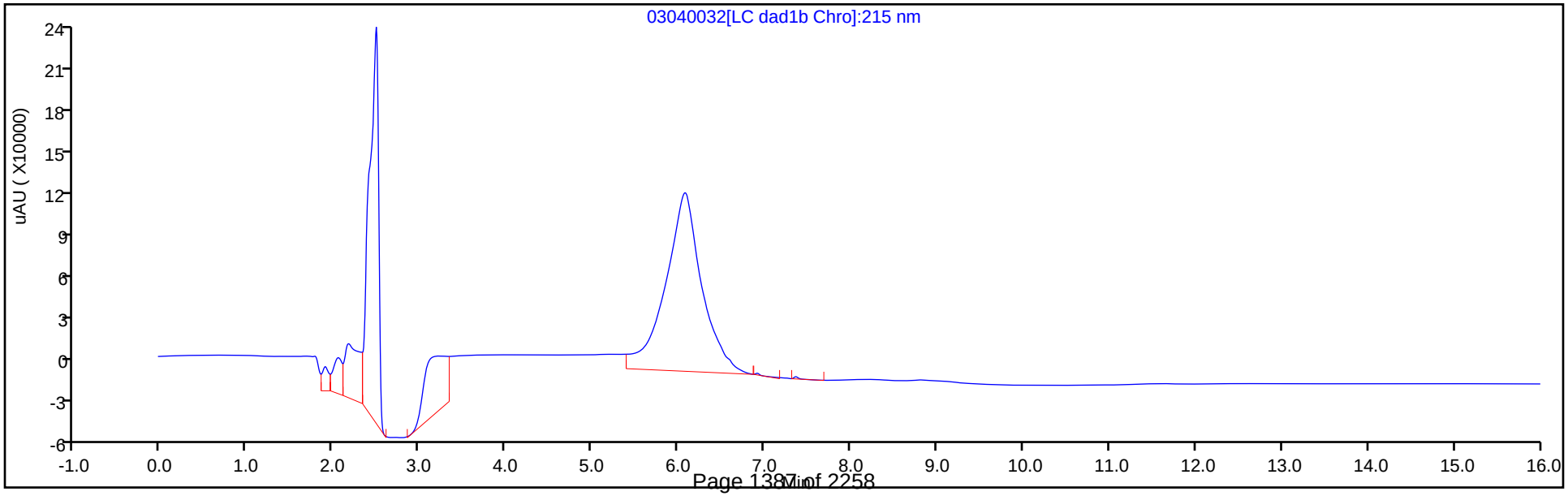
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040032.d

Injection Date:	04-Mar-2020 23:40:46	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC DMT L1			Worklist Smp#:	32
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

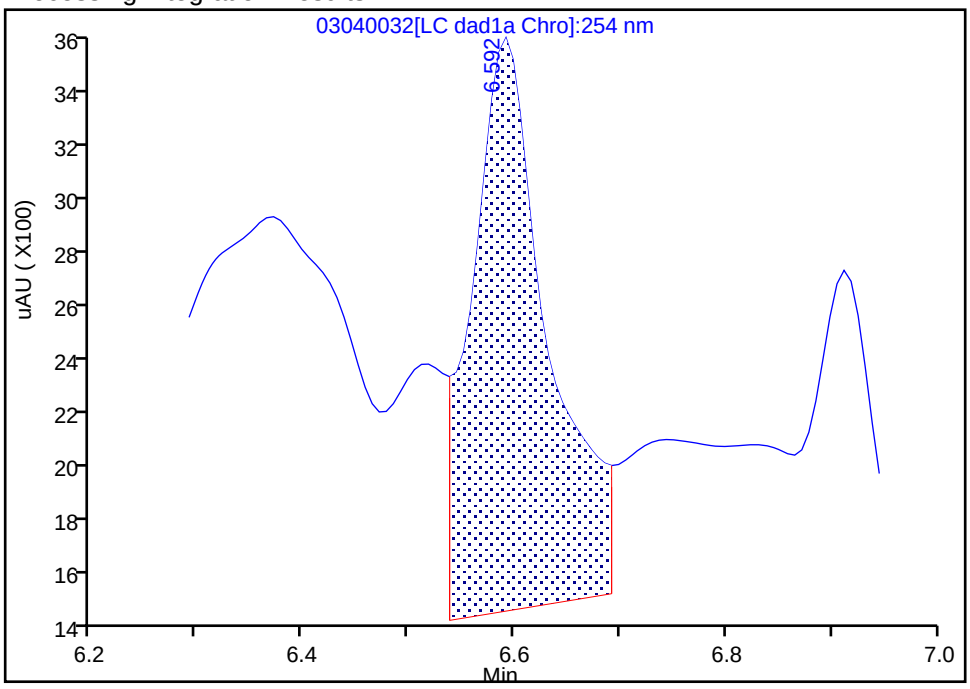
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040032.d				
Injection Date:	04-Mar-2020 23:40:46	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L1				
Client ID:					
Operator ID:	CB	ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

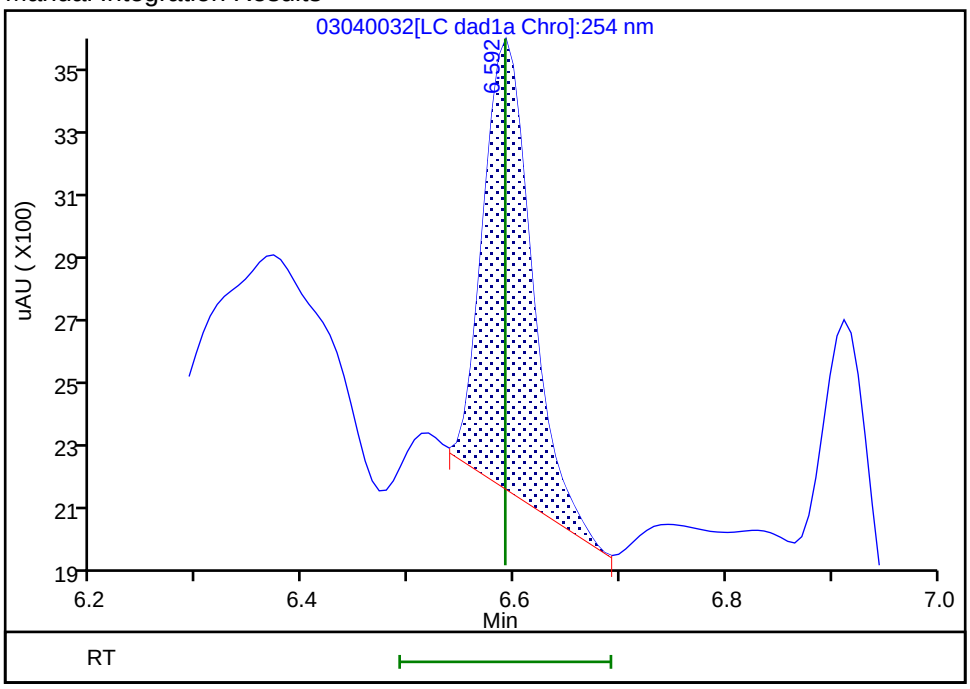
Processing Integration Results

RT: 6.59
Area: 10465
Amount: 0.032149
Amount Units: ug/mL



Manual Integration Results

RT: 6.59
Area: 4343
Amount: 0.019958
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:32:43
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

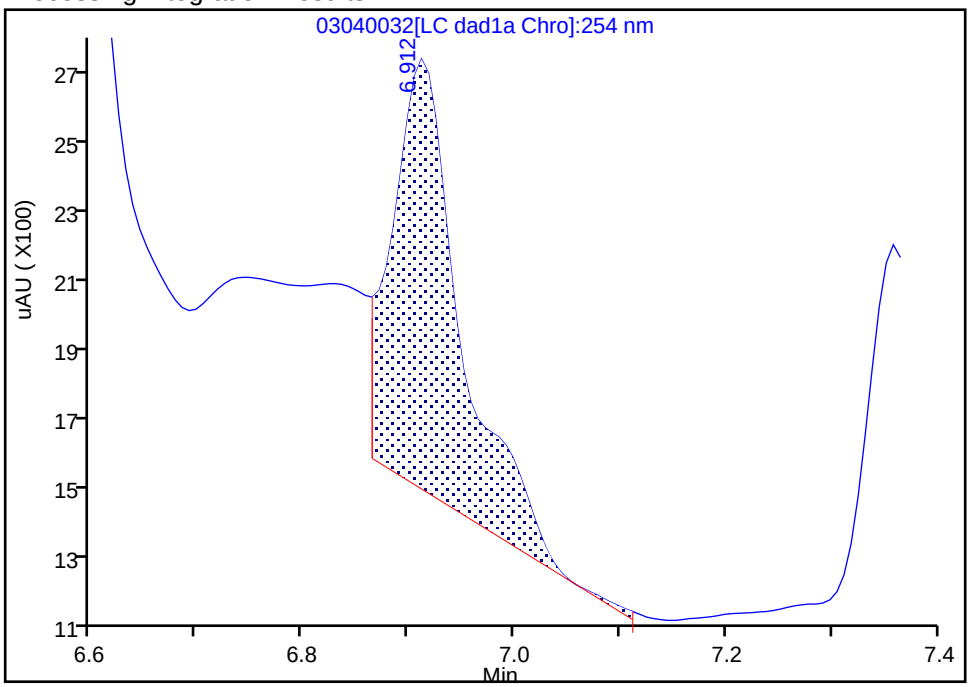
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040032.d				
Injection Date:	04-Mar-2020 23:40:46	Instrument ID:	CHHPLC_X3		
Lims ID:	IC DMT L1				
Client ID:					
Operator ID:	CB	ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

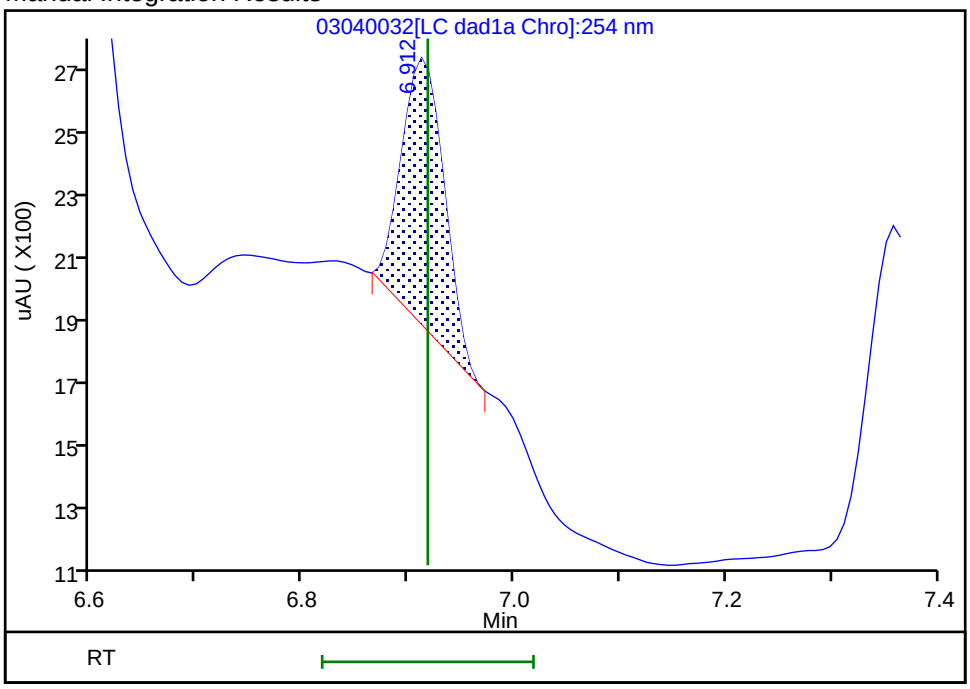
Processing Integration Results

RT: 6.91
Area: 5489
Amount: 0.028357
Amount Units: ug/mL



Manual Integration Results

RT: 6.91
Area: 2345
Amount: 0.015334
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:32:46
Audit Action: Manually Integrated Audit Reason: Baseline

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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 489145

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2020 11:35 Calibration End Date: 03/18/2020 14:39 Calibration ID: 42934

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-489145/15	03180015.D
Level 2	IC 280-489145/14	03180014.D
Level 3	IC 280-489145/13	03180013.D
Level 4	IC 280-489145/12	03180012.D
Level 5	IC 280-489145/11	03180011.D
Level 6	IC 280-489145/10	03180010.D
Level 7	IC 280-489145/9	03180009.D
Level 8	IC 280-489145/8	03180008.D
Level 9	IC 280-489145/7	03180007.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
HMX		6.689	6.687	6.689	6.688	6.687	6.687	6.687	6.678		6.539 - 6.839	6.687
RDX		7.755	7.753	7.749	7.754	7.754	7.754	7.754	7.745		7.599 - 7.899	7.752
Picric acid	8.082	8.082	8.080	8.076	8.068	8.054	8.041	8.034	7.978		7.926 - 8.226	8.055
1,3,5-Trinitrobenzene	8.888	8.889	8.887	8.883	8.888	8.887	8.881	8.887	8.878		8.733 - 9.033	8.885
1,3-Dinitrobenzene	9.535	9.535	9.533	9.529	9.534	9.527	9.527	9.534	9.525		9.379 - 9.679	9.531
Nitrobenzene	9.915	9.922	9.920	9.916	9.921	9.914	9.914	9.914	9.911		9.766 - 10.066	9.916
Tetryl	10.221	10.215	10.220	10.216	10.221	10.221	10.214	10.221	10.218		10.066 - 10.366	10.219
Nitroglycerin	10.735	10.735	10.733	10.729	10.734	10.734	10.727	10.727	10.725		10.579 - 10.879	10.731
2,4,6-Trinitrotoluene	11.195	11.189	11.186	11.183	11.194	11.187	11.181	11.187	11.185		11.083 - 11.283	11.187
4-Amino-2,6-dinitrotoluene	11.341	11.342	11.340	11.336	11.347	11.341	11.334	11.334	11.331		11.236 - 11.436	11.338
2-Amino-4,6-dinitrotoluene	11.635	11.629	11.633	11.623	11.634	11.627	11.621	11.621	11.618		11.523 - 11.723	11.627
2,6-Dinitrotoluene	11.795	11.789	11.793	11.783	11.794	11.787	11.781	11.787	11.785		11.683 - 11.883	11.788
2,4-Dinitrotoluene	11.995	11.989	11.986	11.983	11.987	11.987	11.981	11.981	11.978		11.883 - 12.083	11.985
2-Nitrotoluene	12.828	12.822	12.833	12.823	12.827	12.827	12.814	12.821	12.818		12.673 - 12.973	12.824
4-Nitrotoluene	13.268	13.269	13.260	13.256	13.261	13.261	13.254	13.254	13.251		13.106 - 13.406	13.259
3-Nitrotoluene	13.855	13.849	13.853	13.849	13.854	13.854	13.841	13.847	13.845		13.699 - 13.999	13.850
PETN		+++++	14.946	14.936	14.941	14.941	14.927	14.941	14.945		14.786 - 15.086	14.940
1,2-Dinitrobenzene	8.715	8.709	8.713	8.709	8.714	8.714	8.714	8.714	8.705		8.559 - 8.859	8.712

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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 489145

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2020 11:35 Calibration End Date: 03/18/2020 14:39 Calibration ID: 42934

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-489145/15	03180015.D
Level 2	IC 280-489145/14	03180014.D
Level 3	IC 280-489145/13	03180013.D
Level 4	IC 280-489145/12	03180012.D
Level 5	IC 280-489145/11	03180011.D
Level 6	IC 280-489145/10	03180010.D
Level 7	IC 280-489145/9	03180009.D
Level 8	IC 280-489145/8	03180008.D
Level 9	IC 280-489145/7	03180007.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 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
HMX	91008 92308	61440 91473	86460 91820	90800 92351	Ave		85962.1667				12.3		20.0			
RDX	112944 111897	112680 113215	121400 111841	117010 112730	Ave		116613.070				6.7		20.0			
Picric acid	86560 86468 88192	70960 86698	86100 86851	86470 87876	Ave		85130.5476				6.3		20.0			
1,3,5-Trinitrobenzene	192016 239677 242392	193413 242552	239242 242052	236826 244610	Ave		230308.873				9.3		20.0			
1,3-Dinitrobenzene	254770 321218 326628	250299 322290	322275 320369	318333 323988	Ave		306685.717				10.0		20.0			
Nitrobenzene	173386 209084 210856	165538 209462	208865 209202	207759 209472	Ave		200402.631				8.8		20.0			
Tetryl	132854 188850 191963	139401 190152	182355 189763	184900 193048	Ave		177031.954				13.3		20.0			
Nitroglycerin	54320 73708 72647	54804 73682	66982 72630	71269 73160	Ave		68133.4679				11.7		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 489145

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2020 11:35 Calibration End Date: 03/18/2020 14:39 Calibration ID: 42934

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 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
2,4,6-Trinitrotoluene	143984 216888 217948	171594 215762	214622 218499	217430 219552	Ave		204030.971				13.3		20.0			
4-Amino-2,6-dinitrotoluene	78402 173379 171541	137582 174883	169630 168893	172757 173075	Lin2	-1163.6365	178372.945							0.9980		0.9900
2-Amino-4,6-dinitrotoluene	169163 213685 217128	161195 213177	209223 213799	209592 218387	Ave		202816.698				10.7		20.0			
2,6-Dinitrotoluene	120159 159558 155029	119004 160244	157012 158940	158576 156549	Ave		149452.337				11.4		20.0			
2,4-Dinitrotoluene	250359 318972 321972	249960 319980	313566 317703	316753 322992	Ave		303584.095				10.0		20.0			
2-Nitrotoluene	129200 138416 134514	122720 134575	151060 133944	137330 133699	Ave		135050.876				5.6		20.0			
4-Nitrotoluene	86228 119058 116822	100160 116285	128064 116245	117874 116311	Ave		113005.083				10.9		20.0			
3-Nitrotoluene	112128 149894 149503	125035 150095	155005 148550	148232 148816	Ave		143028.635				10.0		20.0			
PETN	 80472 82059	+++++ 82077	74814 81281	78947 82446	Ave		78604.5748				6.9		20.0			
1,2-Dinitrobenzene	122480 142220 143478	119840 142918	144780 142683	141270 144242	Ave		138212.217				7.1		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 489145

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2020 11:35 Calibration End Date: 03/18/2020 14:39 Calibration ID: 42934

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-489145/15	03180015.D
Level 2	IC 280-489145/14	03180014.D
Level 3	IC 280-489145/13	03180013.D
Level 4	IC 280-489145/12	03180012.D
Level 5	IC 280-489145/11	03180011.D
Level 6	IC 280-489145/10	03180010.D
Level 7	IC 280-489145/9	03180009.D
Level 8	IC 280-489145/8	03180008.D
Level 9	IC 280-489145/7	03180007.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
HMX	Ave	36589	1536 64274	4323 92351	9080 230770	22752	0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250
RDX	Ave	45286	2817 78289	6070 112730	11701 279743	28236	0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250
Picric acid	Ave	1082 34679	1774 60796	4305 87876	8647 220480	21617	0.0125 0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250
1,3,5-Trinitrobenzene	Ave	2405 97215	4845 169775	11986 245099	23730 607193	60039	0.0125 0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
1,3-Dinitrobenzene	Ave	3191 129174	6270 224707	16146 324636	31897 818202	80465	0.0125 0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
Nitrobenzene	Ave	2176 84120	4155 147027	10485 210310	20859 529249	52480	0.0126 0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
Tetryl	Ave	1664 76213	3492 133100	9136 193434	18527 480867	47307	0.0125 0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
Nitroglycerin	Ave	6790 294728	13701 508407	33491 731600	71269 1816166	184270	0.125 4.00	0.250 7.00	0.500 10.0	1.00 25.0	2.50
2,4,6-Trinitrotoluene	Ave	1807 86650	4307 153561	10774 220430	21830 547050	54439	0.0126 0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
4-Amino-2,6-dinitrotoluene	Lin2	981 70023	3443 118343	8490 173248	17293 429281	43388	0.0125 0.400	0.0250 0.701	0.0501 1.00	0.100 2.50	0.250
2-Amino-4,6-dinitrotoluene	Ave	2123 85612	4046 150258	10503 219261	21043 544991	53635	0.0126 0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
2,6-Dinitrotoluene	Ave	1508 64354	2987 111703	7882 157175	15921 389124	40049	0.0126 0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
2,4-Dinitrotoluene	Ave	3142 128504	6274 223282	15741 324284	31802 808149	80062	0.0126 0.402	0.0251 0.703	0.0502 1.00	0.100 2.51	0.251
2-Nitrotoluene	Ave	1615 53830	3068 93761	7553 133699	13733 336284	34604	0.0125 0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250

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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1 Analy Batch No.: 489145

SDG No.:

Instrument ID: CHHPLC_X3 GC Column: UltraCarb5u ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2020 11:35 Calibration End Date: 03/18/2020 14:39 Calibration ID: 42934

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
4-Nitrotoluene	Ave	1080 46607	2509 81534	6416 116544	11811 292638	29824	0.0125 0.401	0.0251 0.701	0.0501 1.00	0.100 2.51	0.251
3-Nitrotoluene	Ave	1403 60098	3129 104089	7758 148965	14838 374131	37511	0.0125 0.400	0.0250 0.701	0.0501 1.00	0.100 2.50	0.250
PETN	Ave	 328307	+++++ 568970	37407 824461	78947 2051483	201180	 4.00	+++++ 7.00	0.500 10.0	1.00 25.0	2.50
1,2-Dinitrobenzene	Ave	1531 57167	2996 99878	7239 144242	14127 358694	35555	0.0125 0.400	0.0250 0.700	0.0500 1.00	0.100 2.50	0.250

Curve Type Legend:

Ave = Average
Lin2 = Linear 1/conc^2

Report Date: 26-Mar-2020 15:45:39 Chrom Revision: 2.3 11-Mar-2020 18:53:20

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180007.D
Lims ID: IC MAIN L9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 18-Mar-2020 11:35:53 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC MAIN L9
Misc. Info.: 280-0090150-007
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 26-Mar-2020 15:45:39 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 19-Mar-2020 08:41:44

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.678	6.689	-0.011	230770	2.50	2.68	M
7 RDX	1	7.745	7.749	-0.004	279743	2.50	2.40	
8 2,4,6-Trinitrophenol	1	7.978	8.076	-0.098	220480	2.50	2.59	
$ 9 1,2-Dinitrobenzene	1	8.705	8.709	-0.004	358694	2.50	2.60	
10 1,3,5-Trinitrobenzene	1	8.878	8.883	-0.005	607193	2.51	2.64	
11 1,3-Dinitrobenzene	1	9.525	9.529	-0.004	818202	2.51	2.67	M
12 Nitrobenzene	1	9.911	9.916	-0.005	529249	2.51	2.64	
14 Tetryl	1	10.218	10.216	0.002	480867	2.51	2.72	
15 Nitroglycerin	2	10.725	10.729	-0.004	1816166	25.0	26.7	
16 2,4,6-Trinitrotoluene	1	11.185	11.183	0.002	547050	2.51	2.68	
17 4-Amino-2,6-dinitrotoluene	1	11.331	11.336	-0.005	429281	2.50	2.41	
18 2-Amino-4,6-dinitrotoluene	1	11.618	11.623	-0.005	544991	2.51	2.69	
19 2,6-Dinitrotoluene	1	11.785	11.783	0.002	389124	2.51	2.60	
20 2,4-Dinitrotoluene	1	11.978	11.983	-0.005	808149	2.51	2.66	
21 o-Nitrotoluene	1	12.818	12.823	-0.005	336284	2.50	2.49	
22 p-Nitrotoluene	1	13.251	13.256	-0.005	292638	2.51	2.59	
23 m-Nitrotoluene	1	13.845	13.849	-0.004	374131	2.50	2.62	
24 PETN	2	14.945	14.936	0.009	2051483	25.0	26.1	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00061 Amount Added: 250.00 Units: uL

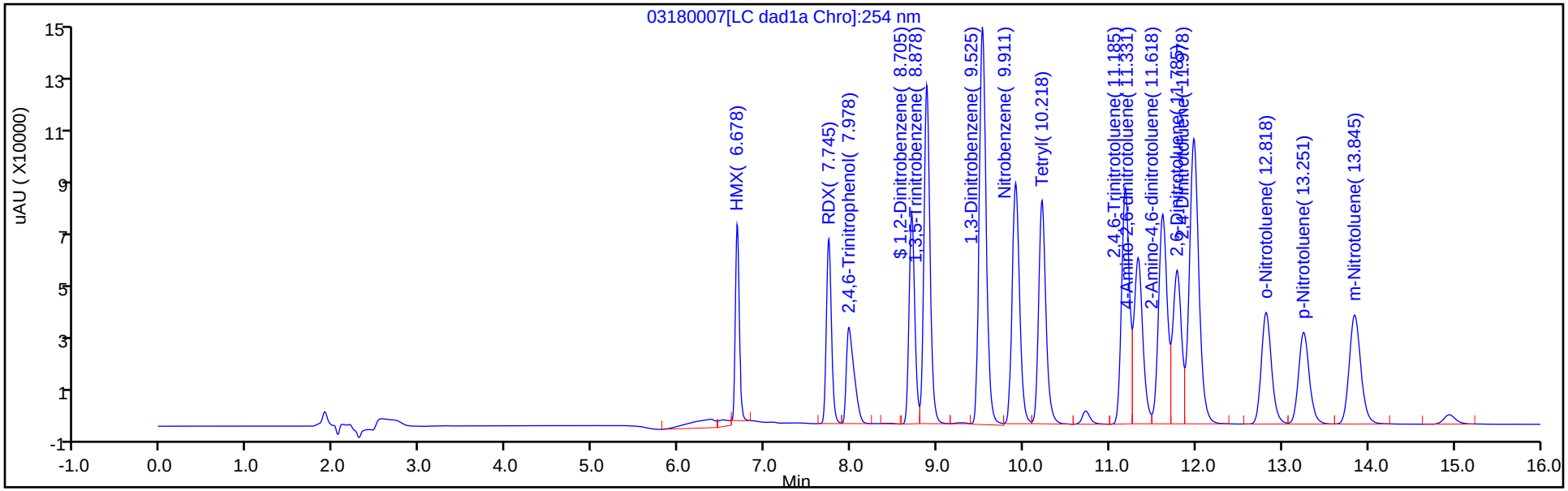
Report Date: 26-Mar-2020 15:45:39 Chrom Revision: 2.3 11-Mar-2020 18:53:20

Eurofins TestAmerica, Denver

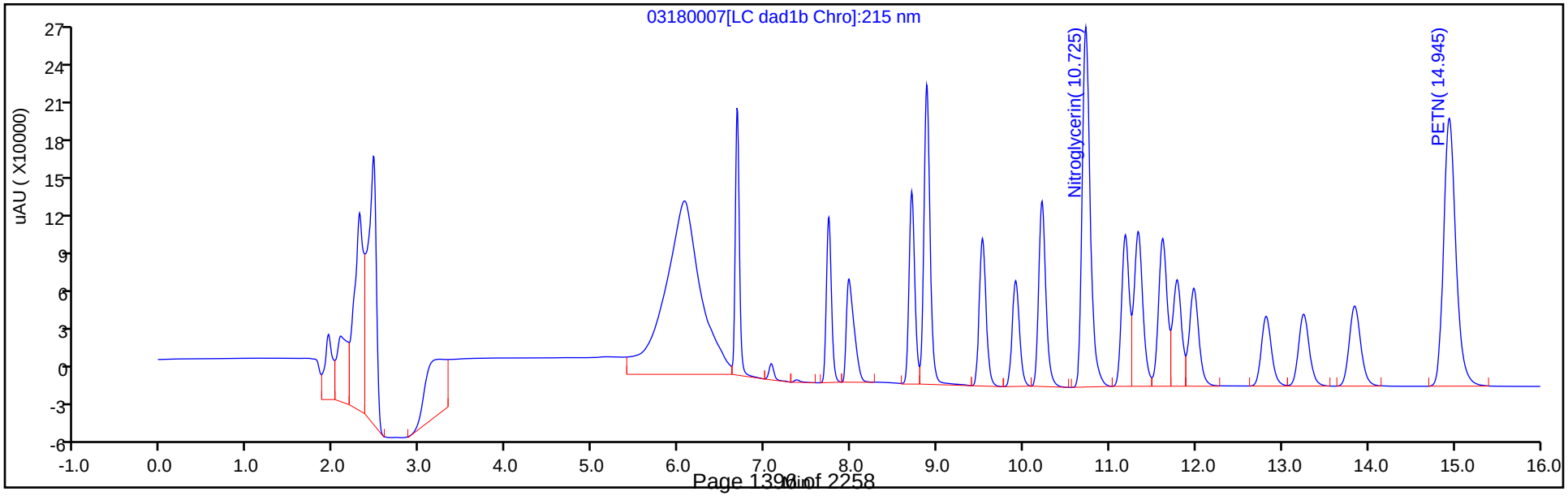
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180007.d

Injection Date:	18-Mar-2020 11:35:53	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC MAIN L9			Worklist Smp#:	7
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

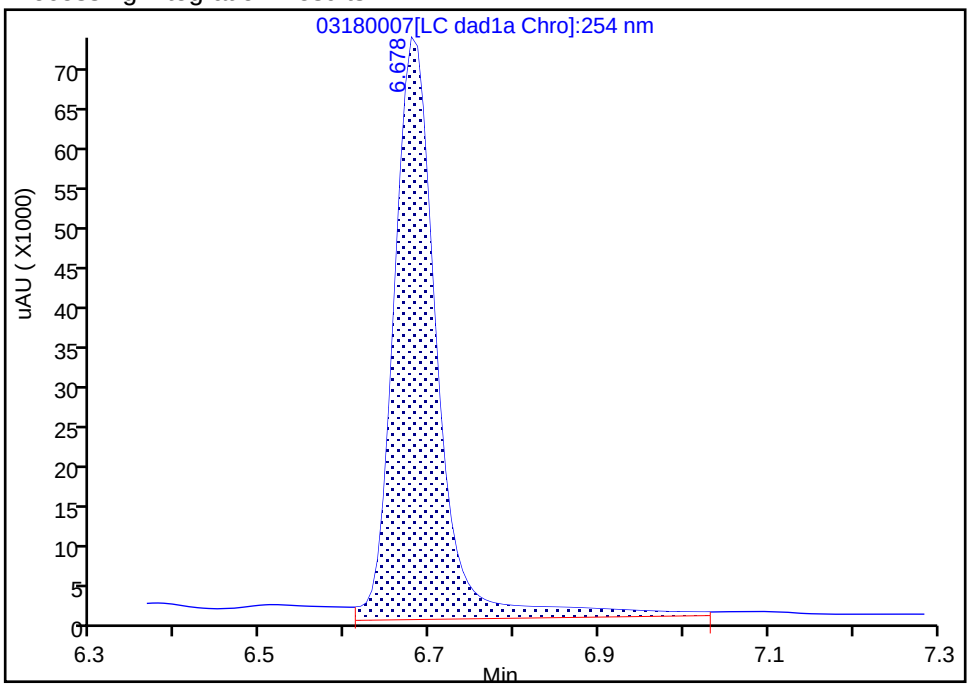
Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180007.d				
Injection Date:	18-Mar-2020 11:35:53	Instrument ID:	CHHPLC_X3		
Lims ID:	IC MAIN L9				
Client ID:					
Operator ID:	CB	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

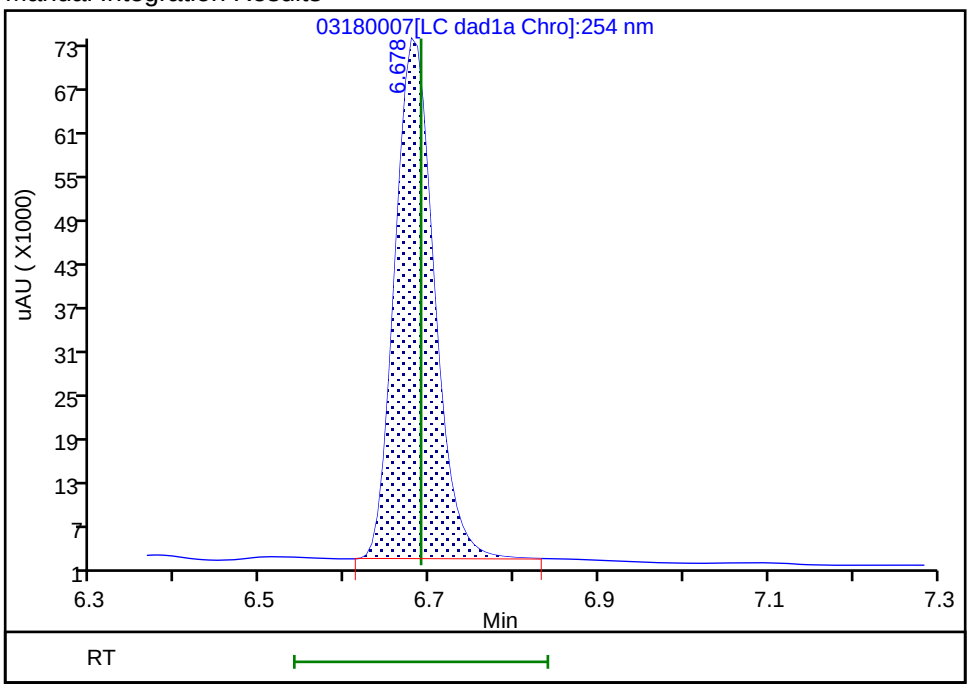
Processing Integration Results

RT: 6.68
Area: 261160
Amount: 2.488946
Amount Units: ug/mL



Manual Integration Results

RT: 6.68
Area: 230770
Amount: 2.684553
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:41:25

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

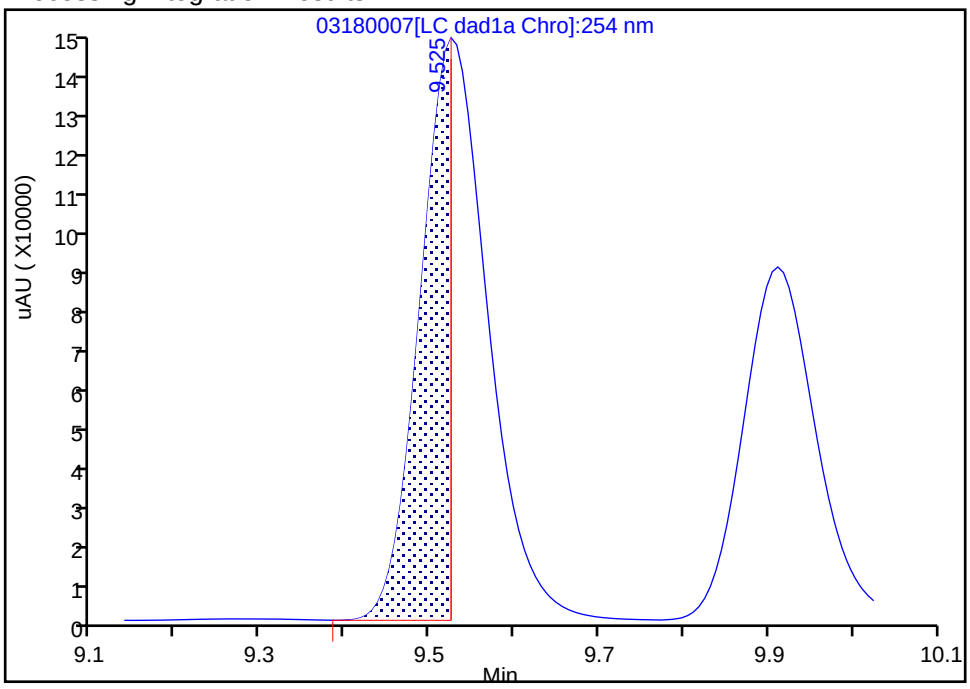
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180007.d
Injection Date: 18-Mar-2020 11:35:53 Instrument ID: CHHPLC_X3
Lims ID: IC MAIN L9
Client ID:
Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

11 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

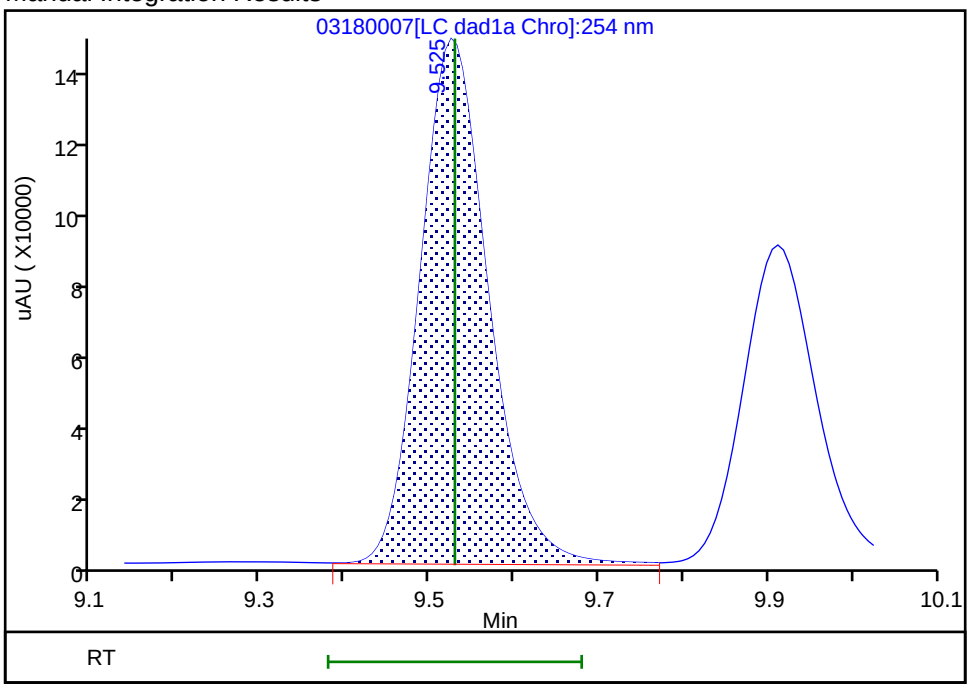
Processing Integration Results

RT: 9.52
Area: 362918
Amount: 1.345398
Amount Units: ug/mL



Manual Integration Results

RT: 9.52
Area: 818202
Amount: 2.667884
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:41:39
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180008.D
Lims ID: IC MAIN L8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 18-Mar-2020 11:58:50 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC MAIN L8
Misc. Info.: 280-0090150-008
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 26-Mar-2020 15:45:40 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 19-Mar-2020 08:42:12

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.687	6.689	-0.002	92351	1.00	1.07	M
7 RDX	1	7.754	7.749	0.005	112730	1.00	0.9667	
8 2,4,6-Trinitrophenol	1	8.034	8.076	-0.042	87876	1.00	1.03	
$ 9 1,2-Dinitrobenzene	1	8.714	8.709	0.005	144242	1.00	1.04	
10 1,3,5-Trinitrobenzene	1	8.887	8.883	0.004	245099	1.00	1.06	
11 1,3-Dinitrobenzene	1	9.534	9.529	0.005	324636	1.00	1.06	
12 Nitrobenzene	1	9.914	9.916	-0.002	210310	1.00	1.05	
14 Tetryl	1	10.221	10.216	0.005	193434	1.00	1.09	
15 Nitroglycerin	2	10.727	10.729	-0.002	731600	10.0	10.7	
16 2,4,6-Trinitrotoluene	1	11.187	11.183	0.004	220430	1.00	1.08	
17 4-Amino-2,6-dinitrotoluene	1	11.334	11.336	-0.002	173248	1.00	0.9778	
18 2-Amino-4,6-dinitrotoluene	1	11.621	11.623	-0.002	219261	1.00	1.08	
19 2,6-Dinitrotoluene	1	11.787	11.783	0.004	157175	1.00	1.05	
20 2,4-Dinitrotoluene	1	11.981	11.983	-0.002	324284	1.00	1.07	
21 o-Nitrotoluene	1	12.821	12.823	-0.002	133699	1.00	0.9900	
22 p-Nitrotoluene	1	13.254	13.256	-0.002	116544	1.00	1.03	
23 m-Nitrotoluene	1	13.847	13.849	-0.002	148965	1.00	1.04	
24 PETN	2	14.941	14.936	0.005	824461	10.0	10.5	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00061 Amount Added: 100.00 Units: uL

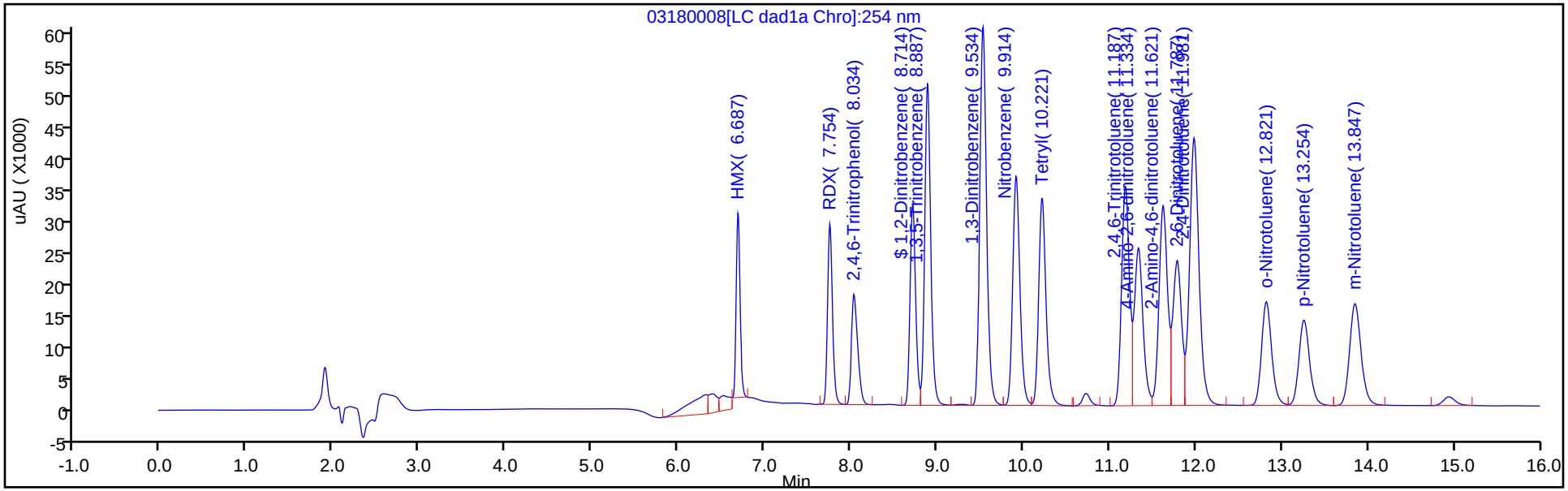
Report Date: 26-Mar-2020 15:45:40 Chrom Revision: 2.3 11-Mar-2020 18:53:20

Eurofins TestAmerica, Denver

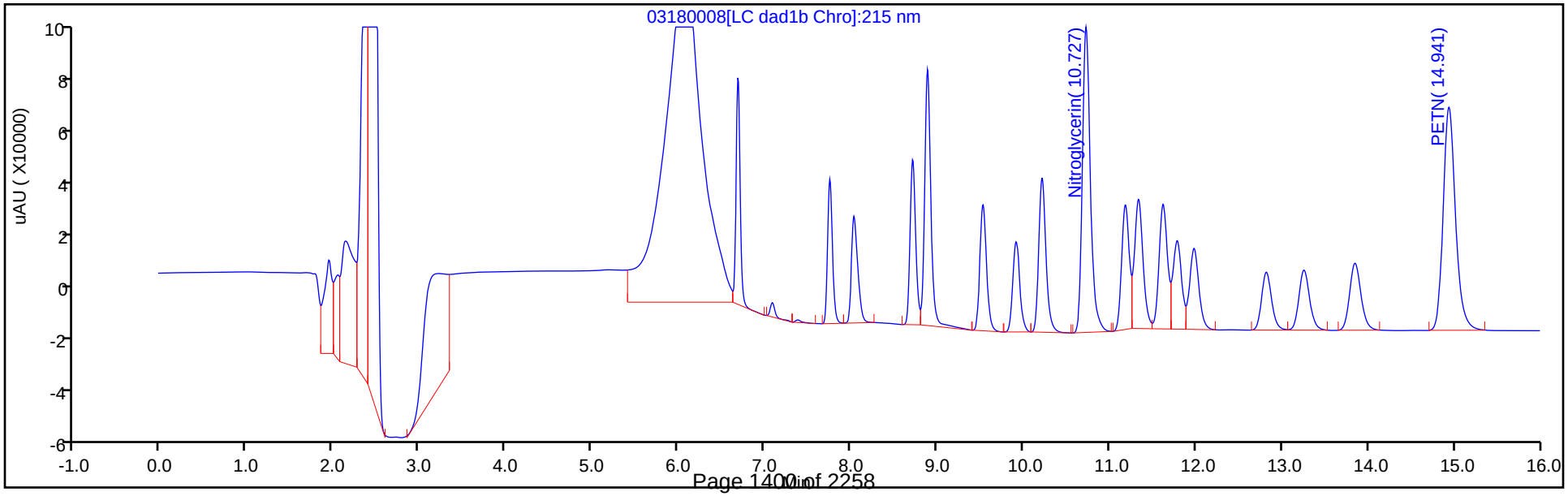
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180008.d

Injection Date:	18-Mar-2020 11:58:50	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC MAIN L8			Worklist Smp#:	8
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

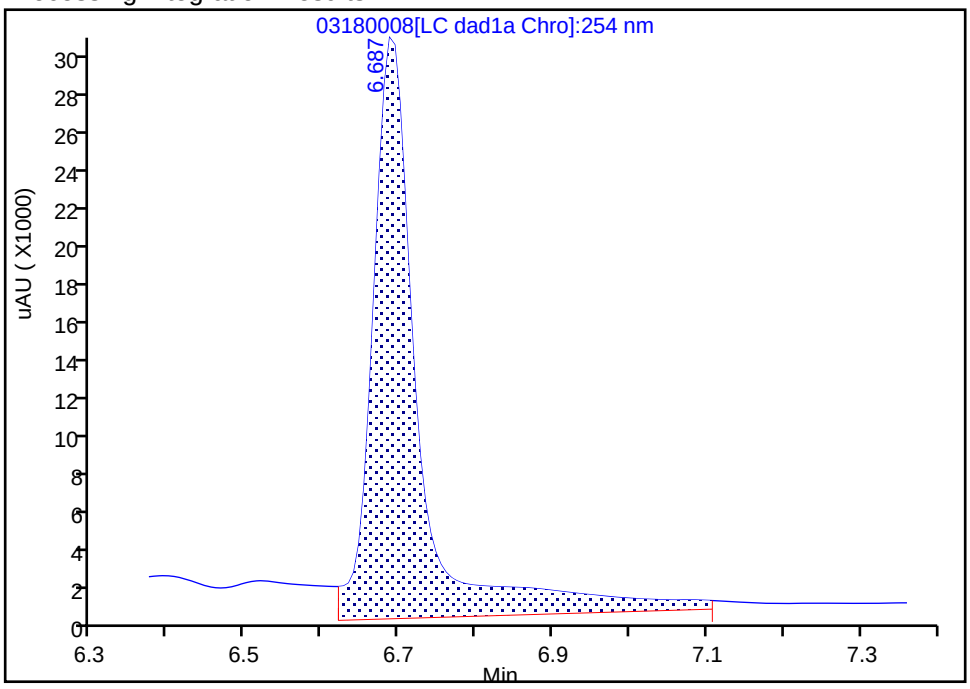
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180008.d
Injection Date: 18-Mar-2020 11:58:50 Instrument ID: CHHPLC_X3
Lims ID: IC MAIN L8
Client ID:
Operator ID: CB ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

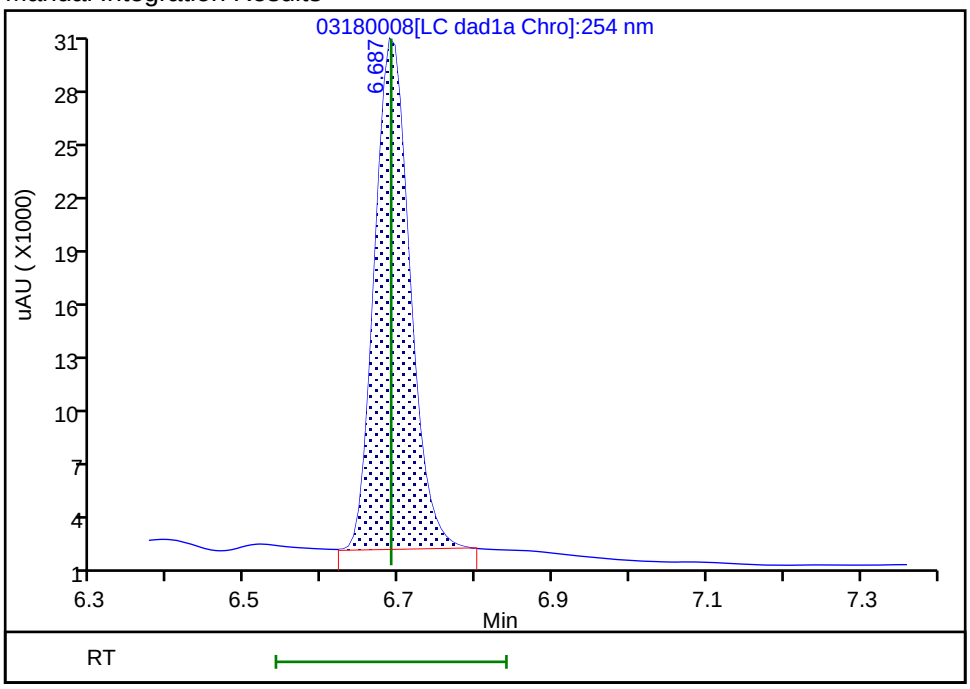
Processing Integration Results

RT: 6.69
Area: 128593
Amount: 1.149770
Amount Units: ug/mL



Manual Integration Results

RT: 6.69
Area: 92351
Amount: 1.074321
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:41:59
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180009.D
Lims ID: IC MAIN L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 18-Mar-2020 12:21:47 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC MAIN L7
Misc. Info.: 280-0090150-009
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 26-Mar-2020 15:45:41 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 19-Mar-2020 08:42:38

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.687	6.689	-0.002	64274	0.7000	0.7477	M
7 RDX	1	7.754	7.749	0.005	78289	0.7000	0.6714	
8 2,4,6-Trinitrophenol	1	8.041	8.076	-0.035	60796	0.7000	0.7142	
$ 9 1,2-Dinitrobenzene	1	8.714	8.709	0.005	99878	0.7000	0.7226	
10 1,3,5-Trinitrobenzene	1	8.881	8.883	-0.002	169775	0.7014	0.7372	
11 1,3-Dinitrobenzene	1	9.527	9.529	-0.002	224707	0.7014	0.7327	
12 Nitrobenzene	1	9.914	9.916	-0.002	147027	0.7028	0.7337	
14 Tetryl	1	10.214	10.216	-0.002	133100	0.7014	0.7518	
15 Nitroglycerin	2	10.727	10.729	-0.002	508407	7.00	7.46	
16 2,4,6-Trinitrotoluene	1	11.181	11.183	-0.002	153561	0.7028	0.7526	
17 4-Amino-2,6-dinitrotoluene	1	11.334	11.336	-0.002	118343	0.7007	0.6700	
18 2-Amino-4,6-dinitrotoluene	1	11.621	11.623	-0.002	150258	0.7028	0.7409	
19 2,6-Dinitrotoluene	1	11.781	11.783	-0.002	111703	0.7028	0.7474	
20 2,4-Dinitrotoluene	1	11.981	11.983	-0.002	223282	0.7028	0.7355	
21 o-Nitrotoluene	1	12.814	12.823	-0.009	93761	0.7000	0.6943	
22 p-Nitrotoluene	1	13.254	13.256	-0.002	81534	0.7014	0.7215	
23 m-Nitrotoluene	1	13.841	13.849	-0.008	104089	0.7007	0.7277	
24 PETN	2	14.927	14.936	-0.009	568970	7.00	7.24	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00061 Amount Added: 70.00 Units: uL

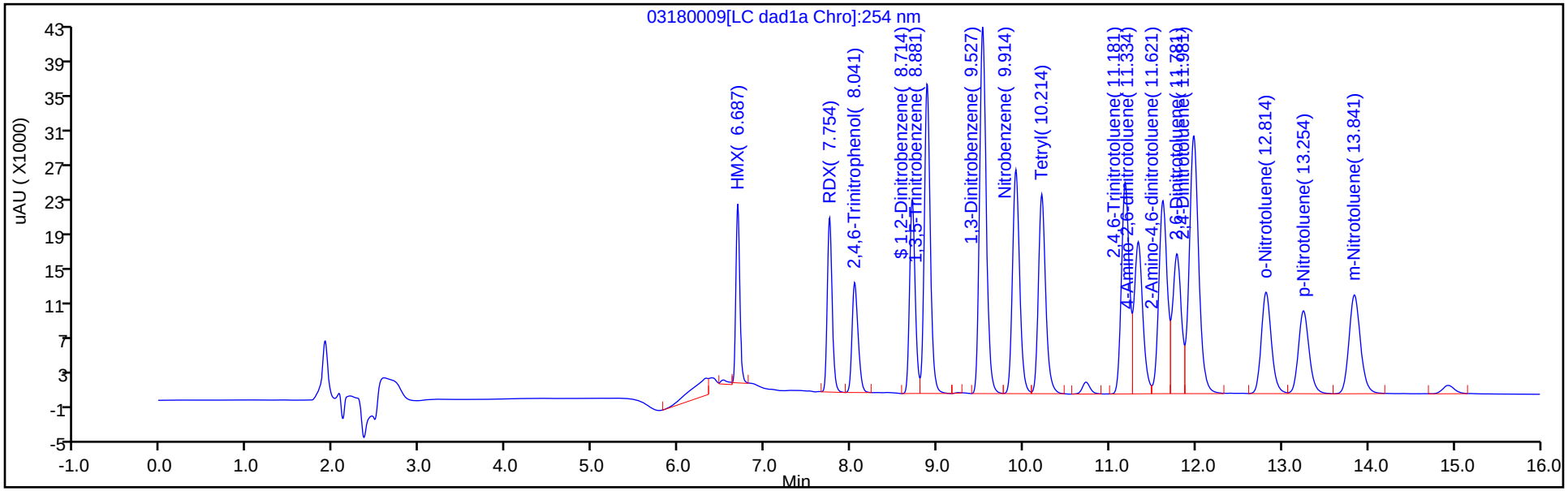
Report Date: 26-Mar-2020 15:45:41 Chrom Revision: 2.3 11-Mar-2020 18:53:20

Eurofins TestAmerica, Denver

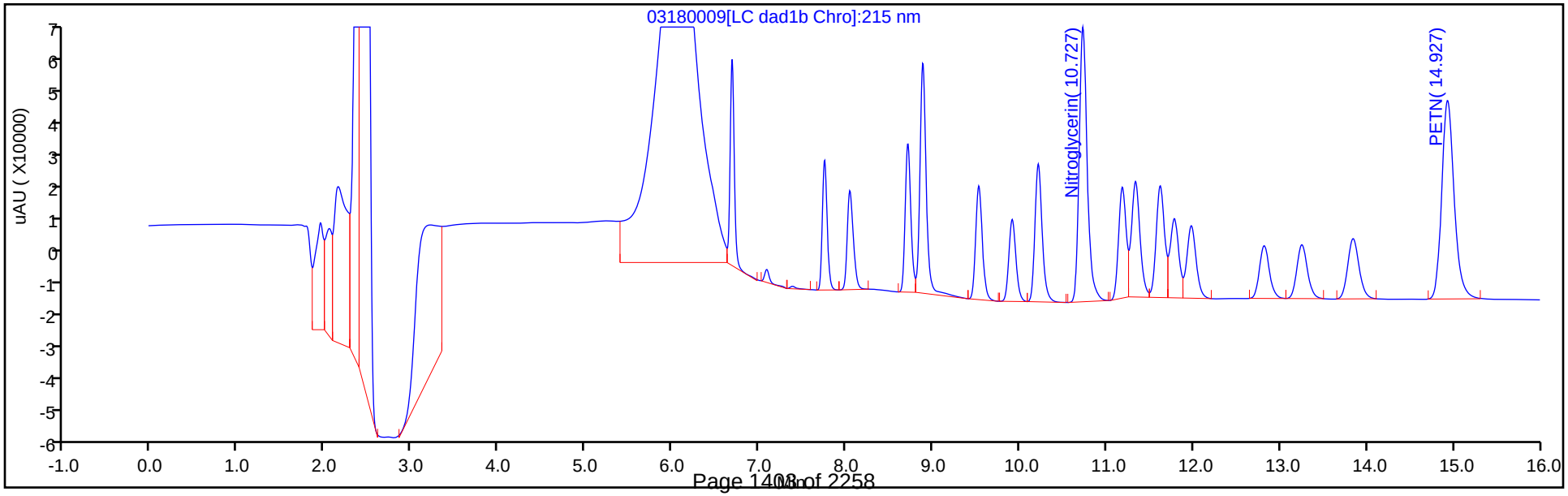
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180009.d

Injection Date:	18-Mar-2020 12:21:47	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC MAIN L7			Worklist Smp#:	9
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

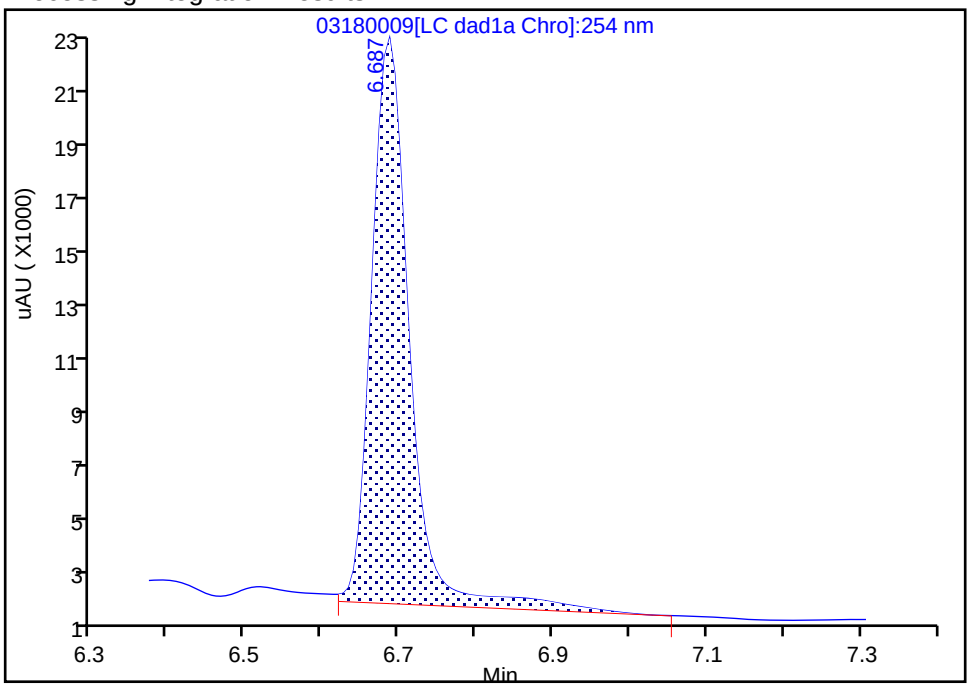
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180009.d
Injection Date: 18-Mar-2020 12:21:47 Instrument ID: CHHPLC_X3
Lims ID: IC MAIN L7
Client ID:
Operator ID: CB ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

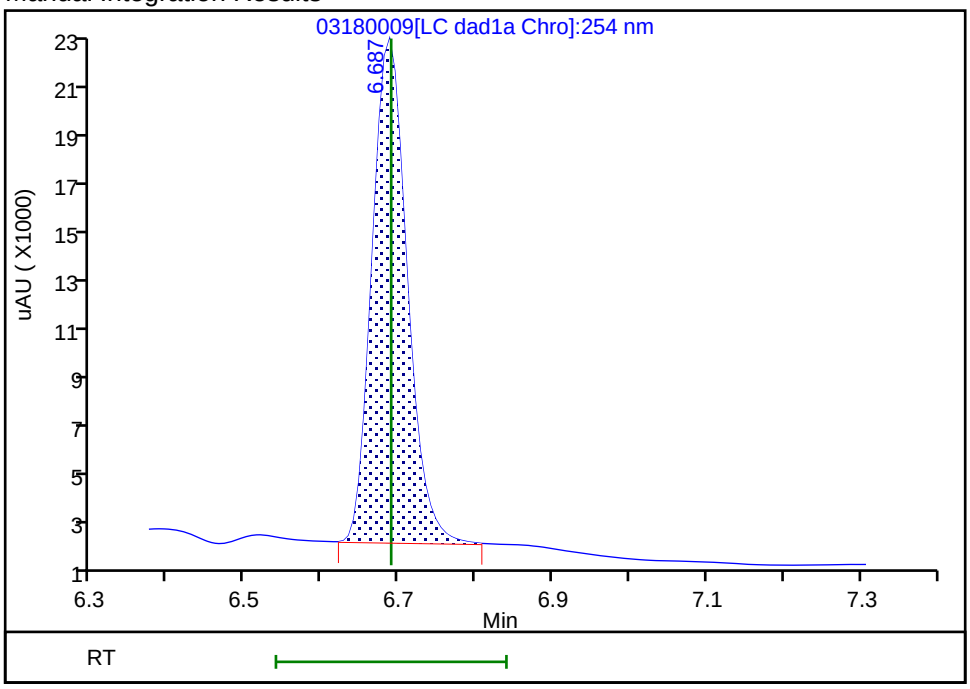
Processing Integration Results

RT: 6.69
Area: 70764
Amount: 0.364265
Amount Units: ug/mL



Manual Integration Results

RT: 6.69
Area: 64274
Amount: 0.747701
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:42:26
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180010.D
Lims ID: IC MAIN L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 18-Mar-2020 12:44:45 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC MAIN L6
Misc. Info.: 280-0090150-010
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 26-Mar-2020 15:45:41 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 19-Mar-2020 08:43:13

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
	3 HMX	1	6.687	6.689	-0.002	36589	0.4000	0.4256	M
	7 RDX	1	7.754	7.749	0.005	45286	0.4000	0.3883	
	8 2,4,6-Trinitrophenol	1	8.054	8.076	-0.022	34679	0.4000	0.4074	
$	9 1,2-Dinitrobenzene	1	8.714	8.709	0.005	57167	0.4000	0.4136	
	10 1,3,5-Trinitrobenzene	1	8.887	8.883	0.004	97215	0.4008	0.4221	
	11 1,3-Dinitrobenzene	1	9.527	9.529	-0.002	129174	0.4008	0.4212	
	12 Nitrobenzene	1	9.914	9.916	-0.002	84120	0.4016	0.4198	
	14 Tetryl	1	10.221	10.216	0.005	76213	0.4008	0.4305	
	15 Nitroglycerin	2	10.734	10.729	0.005	294728	4.00	4.33	
	16 2,4,6-Trinitrotoluene	1	11.187	11.183	0.004	86650	0.4016	0.4247	
	17 4-Amino-2,6-dinitrotoluene	1	11.341	11.336	0.005	70023	0.4004	0.3991	
	18 2-Amino-4,6-dinitrotoluene	1	11.627	11.623	0.004	85612	0.4016	0.4221	
	19 2,6-Dinitrotoluene	1	11.787	11.783	0.004	64354	0.4016	0.4306	
	20 2,4-Dinitrotoluene	1	11.987	11.983	0.004	128504	0.4016	0.4233	
	21 o-Nitrotoluene	1	12.827	12.823	0.004	53830	0.4000	0.3986	
	22 p-Nitrotoluene	1	13.261	13.256	0.005	46607	0.4008	0.4124	
	23 m-Nitrotoluene	1	13.854	13.849	0.005	60098	0.4004	0.4202	
	24 PETN	2	14.941	14.936	0.005	328307	4.00	4.18	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00061 Amount Added: 40.00 Units: uL

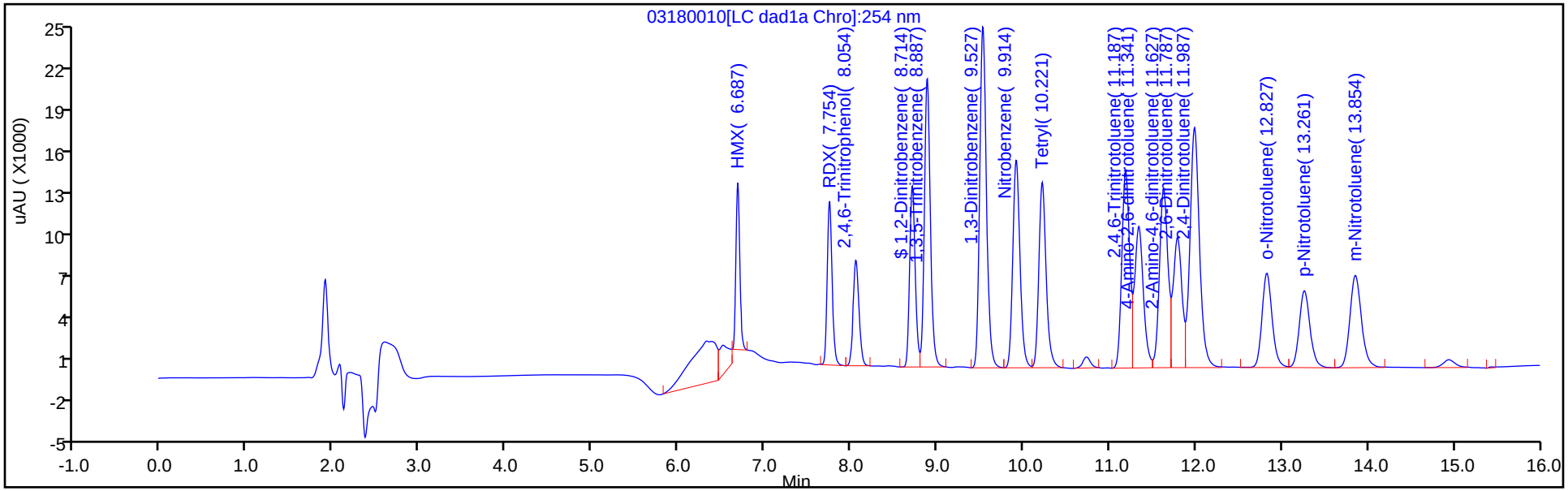
Report Date: 26-Mar-2020 15:45:42 Chrom Revision: 2.3 11-Mar-2020 18:53:20

Eurofins TestAmerica, Denver

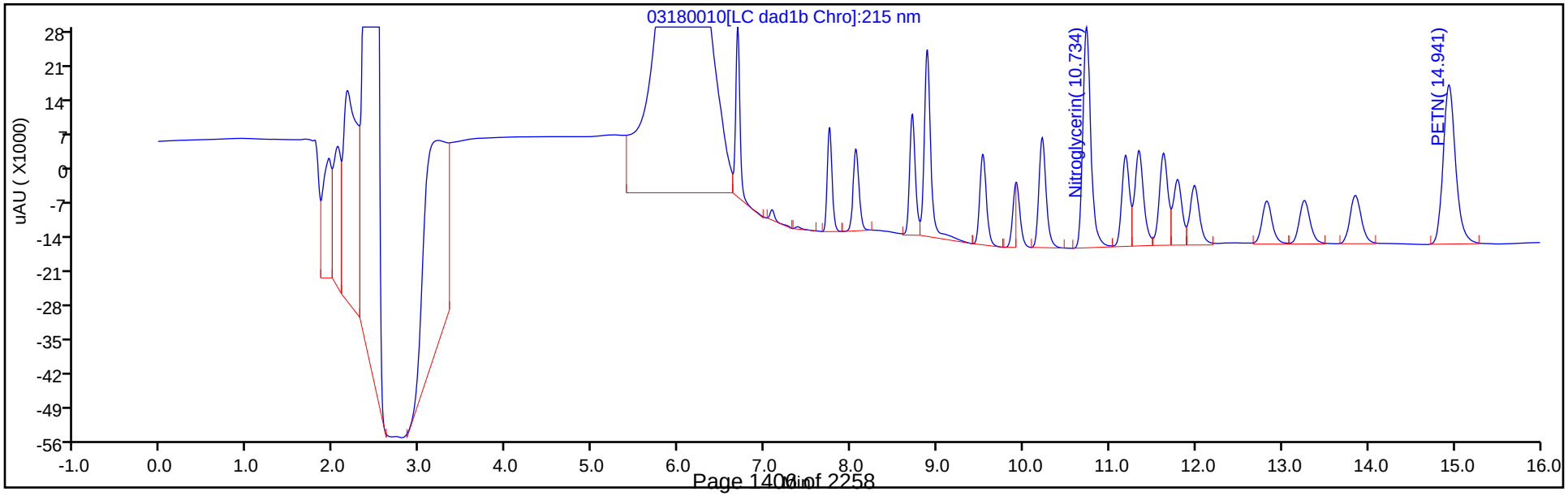
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180010.d

Injection Date:	18-Mar-2020 12:44:45	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC MAIN L6			Worklist Smp#:	10
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

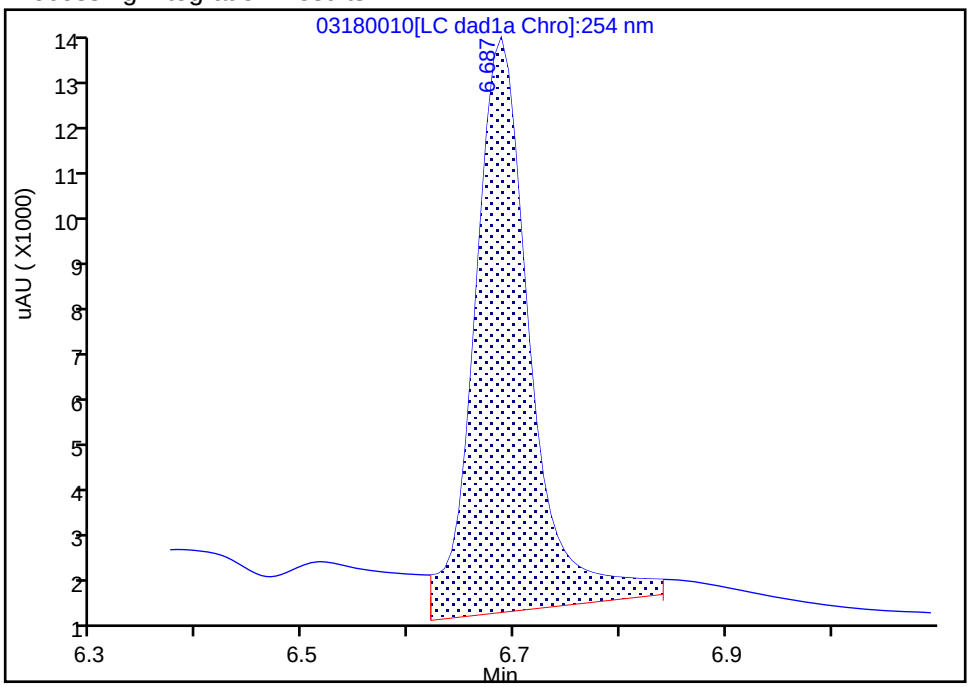
Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180010.d				
Injection Date:	18-Mar-2020 12:44:45	Instrument ID:	CHHPLC_X3		
Lims ID:	IC MAIN L6				
Client ID:					
Operator ID:	CB	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

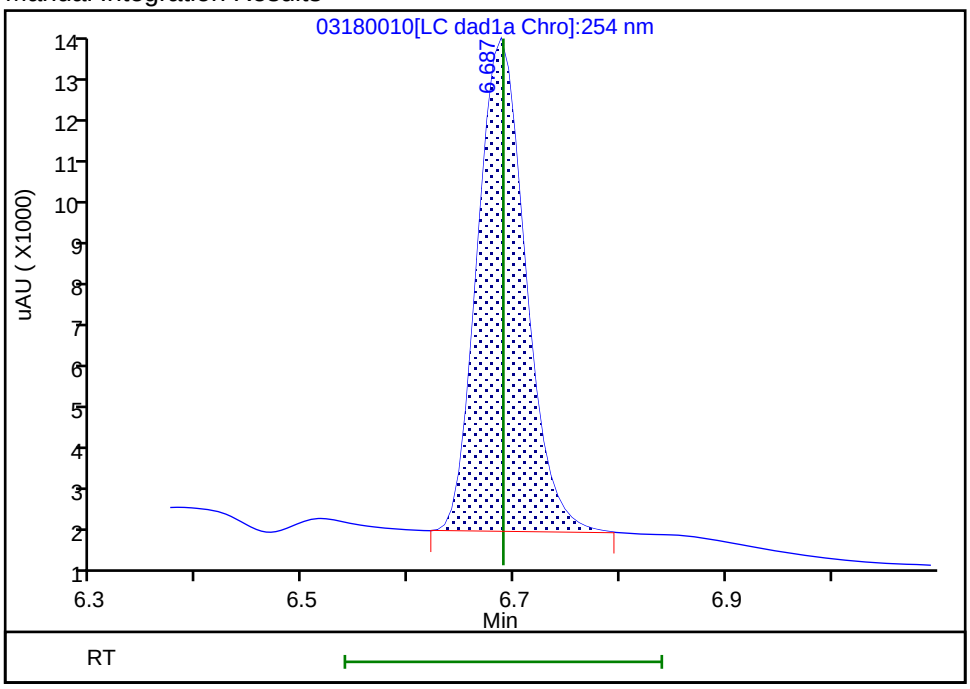
Processing Integration Results

RT: 6.69
Area: 45375
Amount: 0.234818
Amount Units: ug/mL



Manual Integration Results

RT: 6.69
Area: 36589
Amount: 0.425641
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:42:54

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180011.D
Lims ID: IC MAIN L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 18-Mar-2020 13:07:42 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC MAIN L5
Misc. Info.: 280-0090150-011
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 26-Mar-2020 15:45:42 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 19-Mar-2020 08:43:30

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.688	6.689	-0.001	22752	0.2500	0.2647	M
7 RDX	1	7.754	7.749	0.005	28236	0.2500	0.2421	
8 2,4,6-Trinitrophenol	1	8.068	8.076	-0.008	21617	0.2500	0.2539	
$ 9 1,2-Dinitrobenzene	1	8.714	8.709	0.005	35555	0.2500	0.2572	
10 1,3,5-Trinitrobenzene	1	8.888	8.883	0.005	60039	0.2505	0.2607	
11 1,3-Dinitrobenzene	1	9.534	9.529	0.005	80465	0.2505	0.2624	
12 Nitrobenzene	1	9.921	9.916	0.005	52480	0.2510	0.2619	
14 Tetryl	1	10.221	10.216	0.005	47307	0.2505	0.2672	
15 Nitroglycerin	2	10.734	10.729	0.005	184270	2.50	2.70	
16 2,4,6-Trinitrotoluene	1	11.194	11.183	0.011	54439	0.2510	0.2668	
17 4-Amino-2,6-dinitrotoluene	1	11.347	11.336	0.011	43388	0.2503	0.2498	
18 2-Amino-4,6-dinitrotoluene	1	11.634	11.623	0.011	53635	0.2510	0.2645	
19 2,6-Dinitrotoluene	1	11.794	11.783	0.011	40049	0.2510	0.2680	
20 2,4-Dinitrotoluene	1	11.987	11.983	0.004	80062	0.2510	0.2637	
21 o-Nitrotoluene	1	12.827	12.823	0.004	34604	0.2500	0.2562	
22 p-Nitrotoluene	1	13.261	13.256	0.005	29824	0.2505	0.2639	
23 m-Nitrotoluene	1	13.854	13.849	0.005	37511	0.2503	0.2623	
24 PETN	2	14.941	14.936	0.005	201180	2.50	2.56	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00061 Amount Added: 25.00 Units: uL

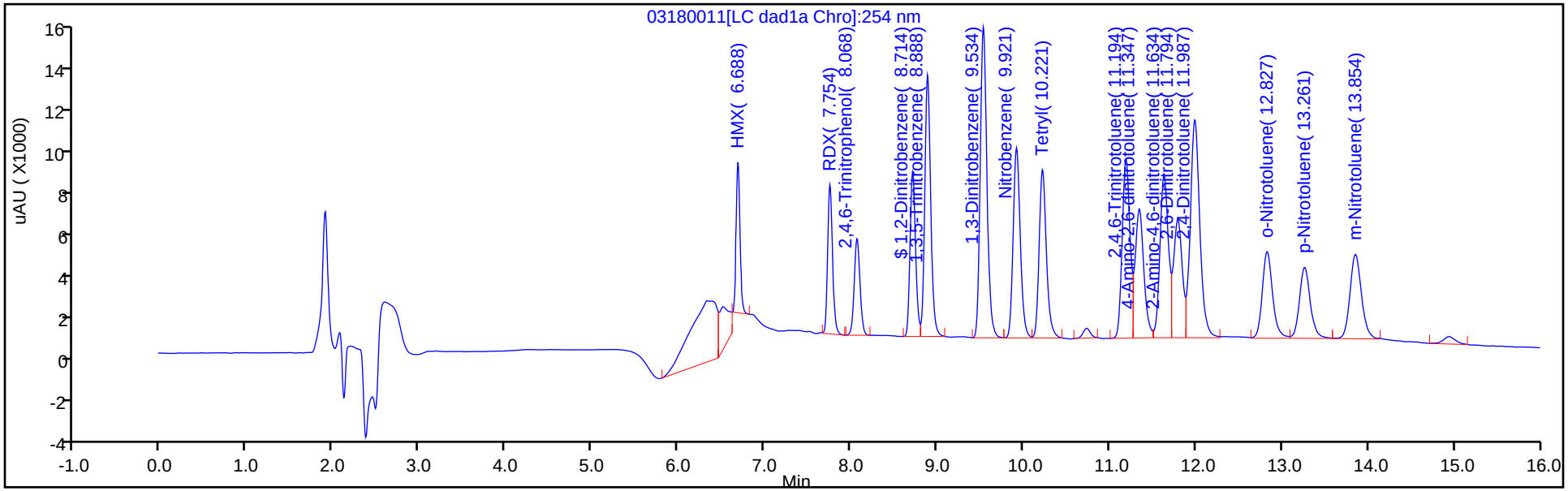
Report Date: 26-Mar-2020 15:45:42 Chrom Revision: 2.3 11-Mar-2020 18:53:20

Eurofins TestAmerica, Denver

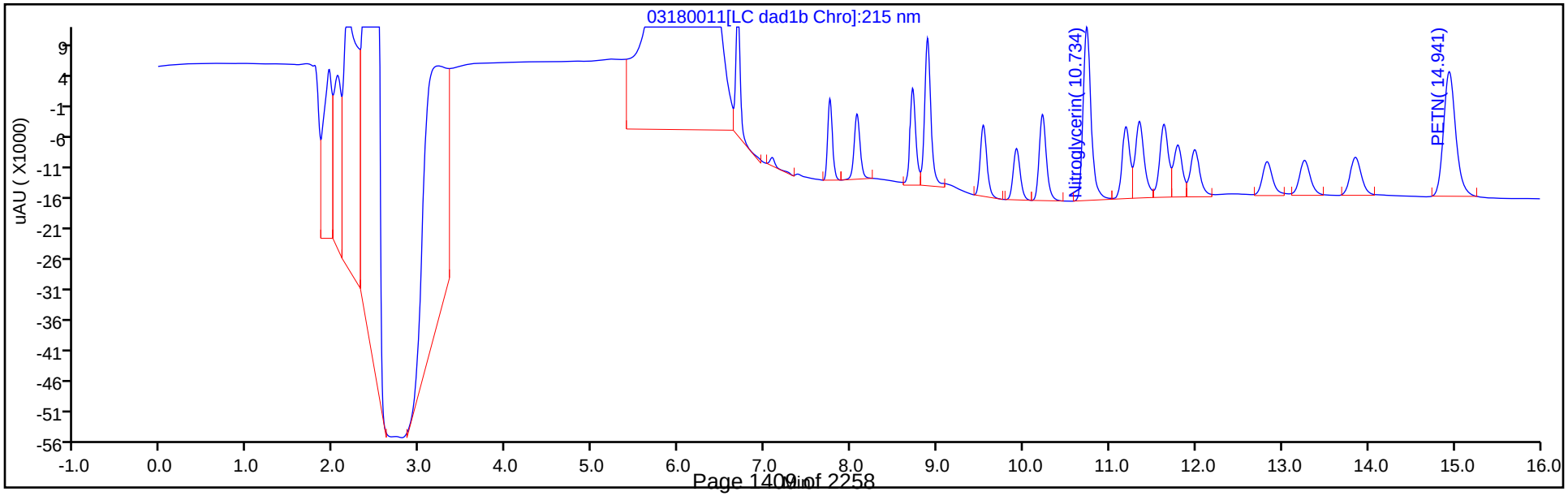
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180011.d

Injection Date:	18-Mar-2020 13:07:42	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC MAIN L5			Worklist Smp#:	11
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

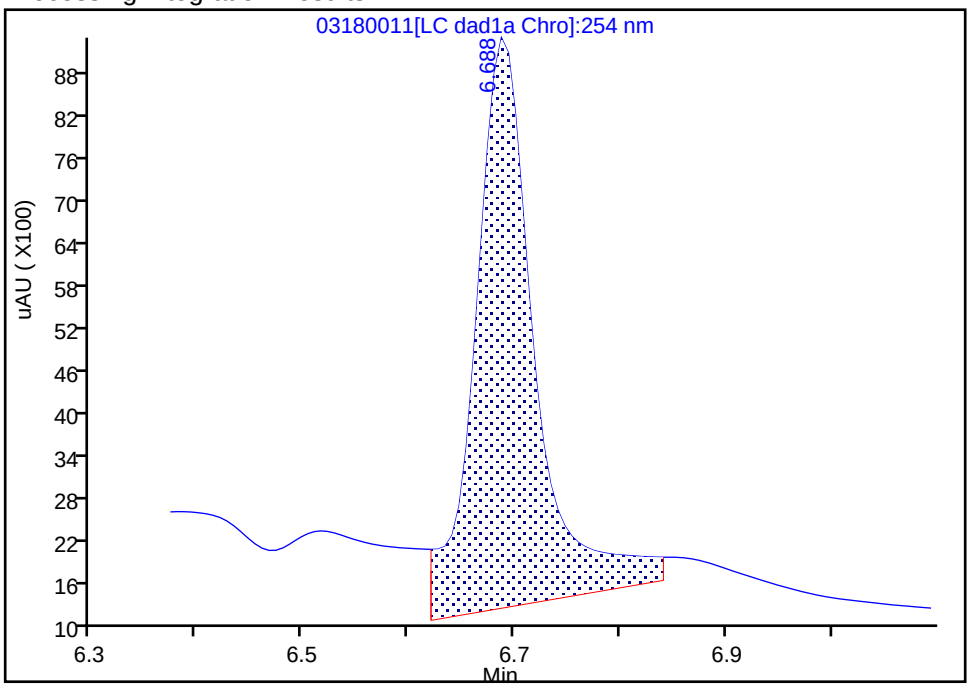
Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180011.d				
Injection Date:	18-Mar-2020 13:07:42	Instrument ID:	CHHPLC_X3		
Lims ID:	IC MAIN L5				
Client ID:					
Operator ID:	CB	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

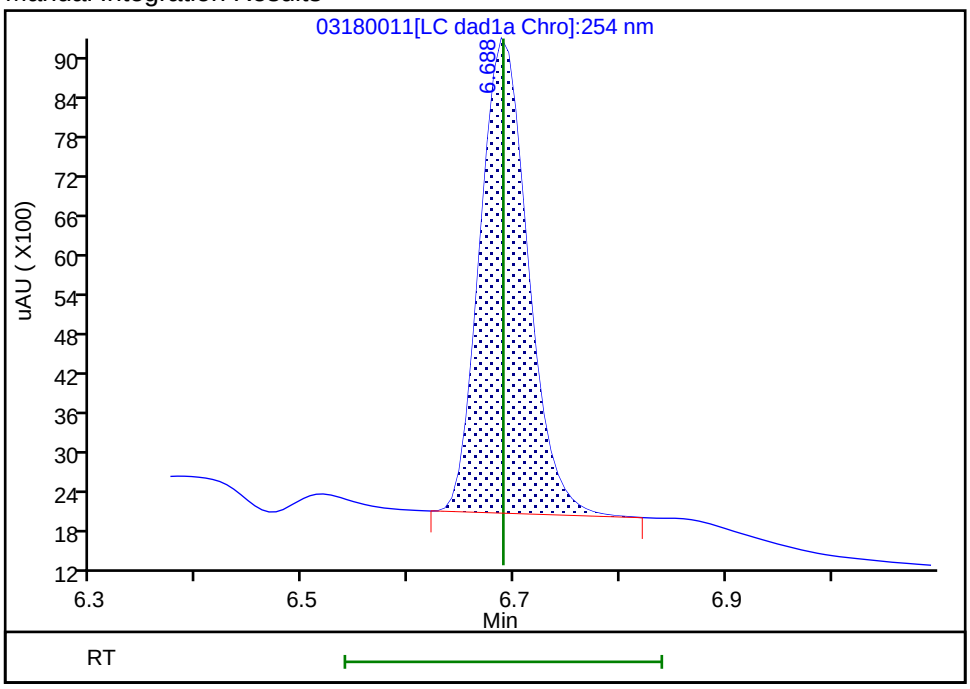
Processing Integration Results

RT: 6.69
Area: 31475
Amount: 0.164968
Amount Units: ug/mL



Manual Integration Results

RT: 6.69
Area: 22752
Amount: 0.264675
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:43:23

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180012.D
Lims ID: IC MAIN L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 18-Mar-2020 13:30:35 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC MAIN L4
Misc. Info.: 280-0090150-012
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 26-Mar-2020 15:45:43 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 19-Mar-2020 08:43:47

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
	3 HMX	1	6.689	6.689	0.000	9080	0.1000	0.1056	M
	7 RDX	1	7.749	7.749	0.000	11701	0.1000	0.1003	
	8 2,4,6-Trinitrophenol	1	8.076	8.076	0.000	8647	0.1000	0.1016	
$	9 1,2-Dinitrobenzene	1	8.709	8.709	0.000	14127	0.1000	0.1022	
	10 1,3,5-Trinitrobenzene	1	8.883	8.883	0.000	23730	0.1002	0.1030	
	11 1,3-Dinitrobenzene	1	9.529	9.529	0.000	31897	0.1002	0.1040	
	12 Nitrobenzene	1	9.916	9.916	0.000	20859	0.1004	0.1041	
	14 Tetryl	1	10.216	10.216	0.000	18527	0.1002	0.1047	
	15 Nitroglycerin	2	10.729	10.729	0.000	71269	1.00	1.05	
	16 2,4,6-Trinitrotoluene	1	11.183	11.183	0.000	21830	0.1004	0.1070	
	17 4-Amino-2,6-dinitrotoluene	1	11.336	11.336	0.000	17293	0.1001	0.1035	
	18 2-Amino-4,6-dinitrotoluene	1	11.623	11.623	0.000	21043	0.1004	0.1038	
	19 2,6-Dinitrotoluene	1	11.783	11.783	0.000	15921	0.1004	0.1065	
	20 2,4-Dinitrotoluene	1	11.983	11.983	0.000	31802	0.1004	0.1048	
	21 o-Nitrotoluene	1	12.823	12.823	0.000	13733	0.1000	0.1017	
	22 p-Nitrotoluene	1	13.256	13.256	0.000	11811	0.1002	0.1045	
	23 m-Nitrotoluene	1	13.849	13.849	0.000	14838	0.1001	0.1037	
	24 PETN	2	14.936	14.936	0.000	78947	1.00	1.00	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00061 Amount Added: 10.00 Units: uL

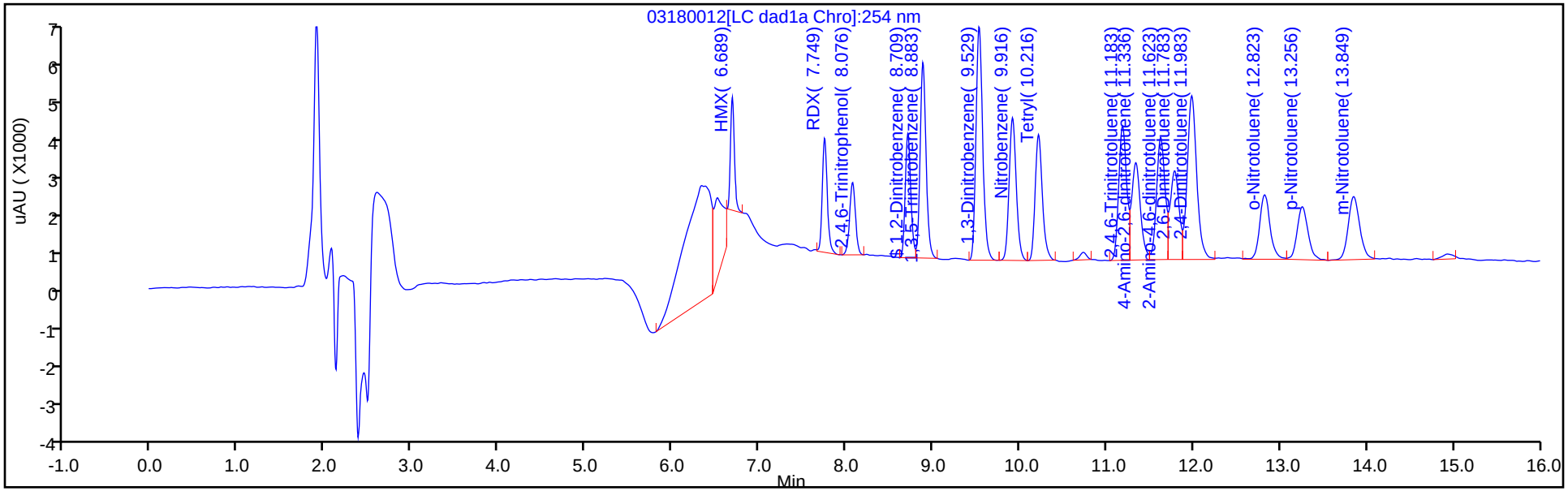
Report Date: 26-Mar-2020 15:45:43 Chrom Revision: 2.3 11-Mar-2020 18:53:20

Eurofins TestAmerica, Denver

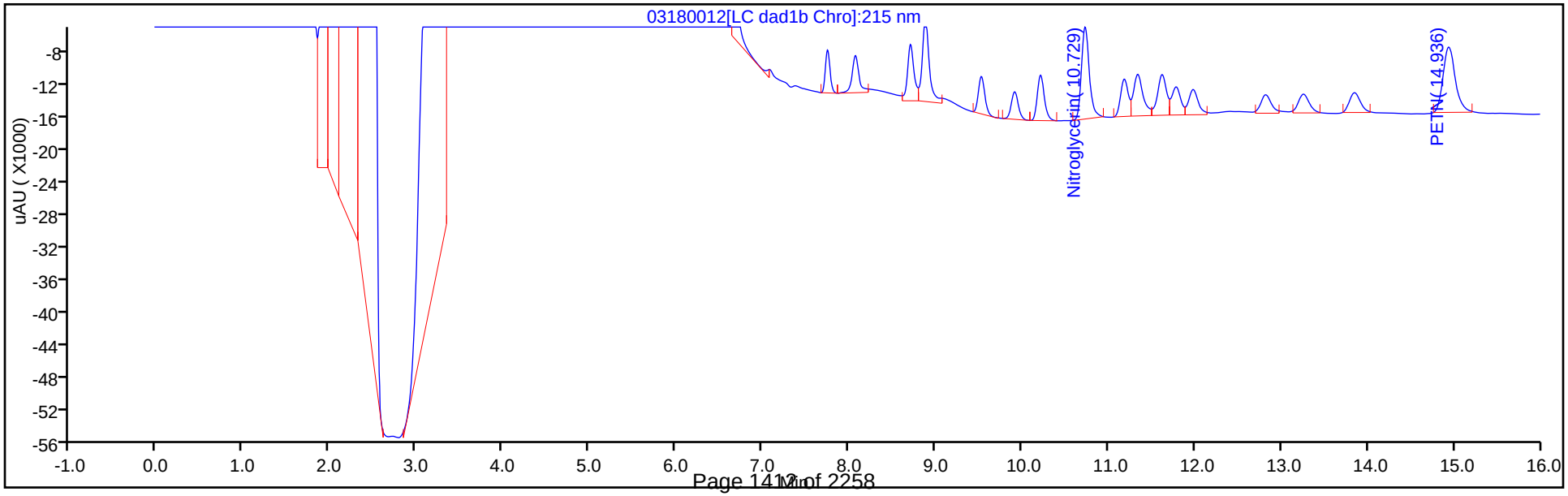
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180012.d

Injection Date:	18-Mar-2020 13:30:35	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC MAIN L4			Worklist Smp#:	12
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

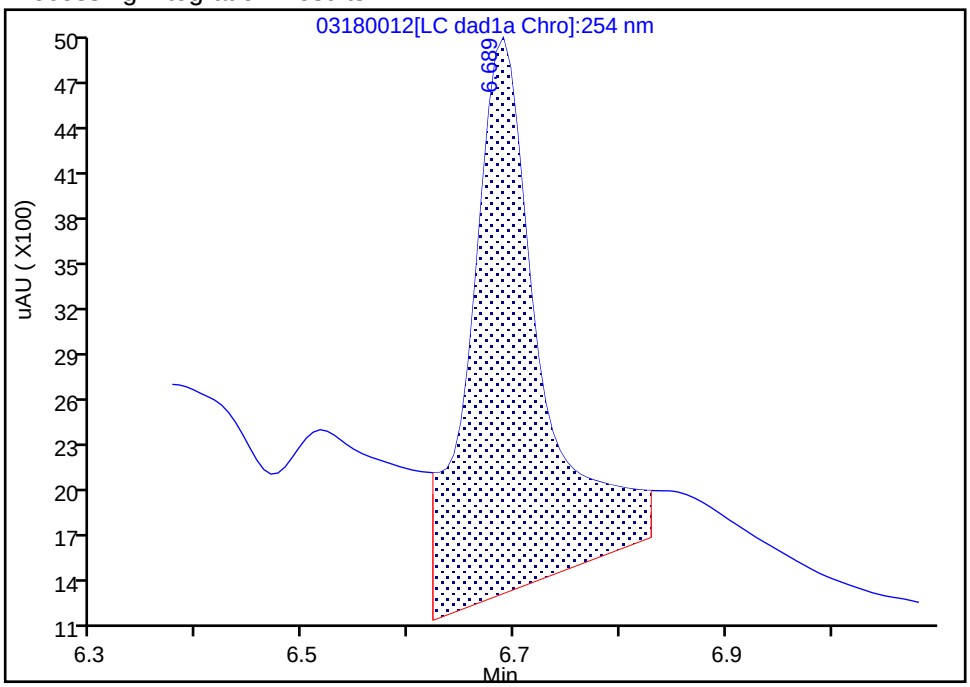
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180012.d
Injection Date: 18-Mar-2020 13:30:35 Instrument ID: CHHPLC_X3
Lims ID: IC MAIN L4
Client ID:
Operator ID: CB ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

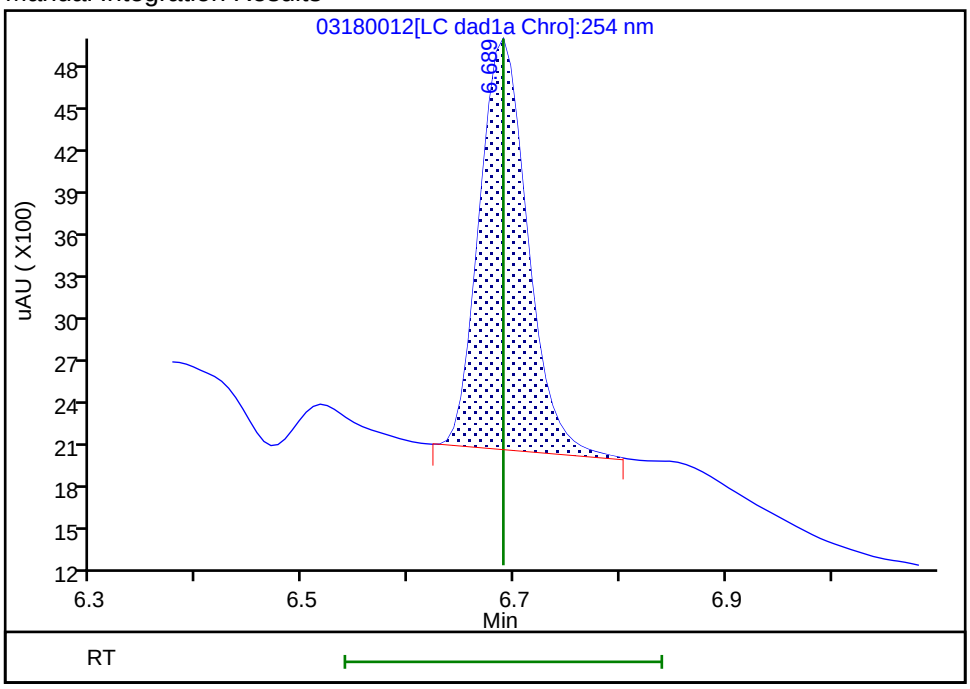
Processing Integration Results

RT: 6.69
Area: 16912
Amount: 0.090478
Amount Units: ug/mL



Manual Integration Results

RT: 6.69
Area: 9080
Amount: 0.105628
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:43:42
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180013.D
Lims ID: IC MAIN L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Mar-2020 13:53:37 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC MAIN L3
Misc. Info.: 280-0090150-013
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 26-Mar-2020 15:45:44 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 19-Mar-2020 08:44:05

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.687	6.689	-0.002	4323	0.0500	0.0503	M
7 RDX	1	7.753	7.749	0.004	6070	0.0500	0.0521	
8 2,4,6-Trinitrophenol	1	8.080	8.076	0.004	4305	0.0500	0.0506	
$ 9 1,2-Dinitrobenzene	1	8.713	8.709	0.004	7239	0.0500	0.0524	
10 1,3,5-Trinitrobenzene	1	8.887	8.883	0.004	11986	0.0501	0.0520	
11 1,3-Dinitrobenzene	1	9.533	9.529	0.004	16146	0.0501	0.0526	
12 Nitrobenzene	1	9.920	9.916	0.004	10485	0.0502	0.0523	
14 Tetryl	1	10.220	10.216	0.004	9136	0.0501	0.0516	
15 Nitroglycerin	2	10.733	10.729	0.004	33491	0.5000	0.4915	
16 2,4,6-Trinitrotoluene	1	11.186	11.183	0.003	10774	0.0502	0.0528	
17 4-Amino-2,6-dinitrotoluene	1	11.340	11.336	0.004	8490	0.0501	0.0541	
18 2-Amino-4,6-dinitrotoluene	1	11.633	11.623	0.010	10503	0.0502	0.0518	
19 2,6-Dinitrotoluene	1	11.793	11.783	0.010	7882	0.0502	0.0527	
20 2,4-Dinitrotoluene	1	11.986	11.983	0.003	15741	0.0502	0.0519	
21 o-Nitrotoluene	1	12.833	12.823	0.010	7553	0.0500	0.0559	
22 p-Nitrotoluene	1	13.260	13.256	0.004	6416	0.0501	0.0568	
23 m-Nitrotoluene	1	13.853	13.849	0.004	7758	0.0501	0.0542	
24 PETN	2	14.946	14.936	0.010	37407	0.5000	0.4759	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00061 Amount Added: 5.00 Units: uL

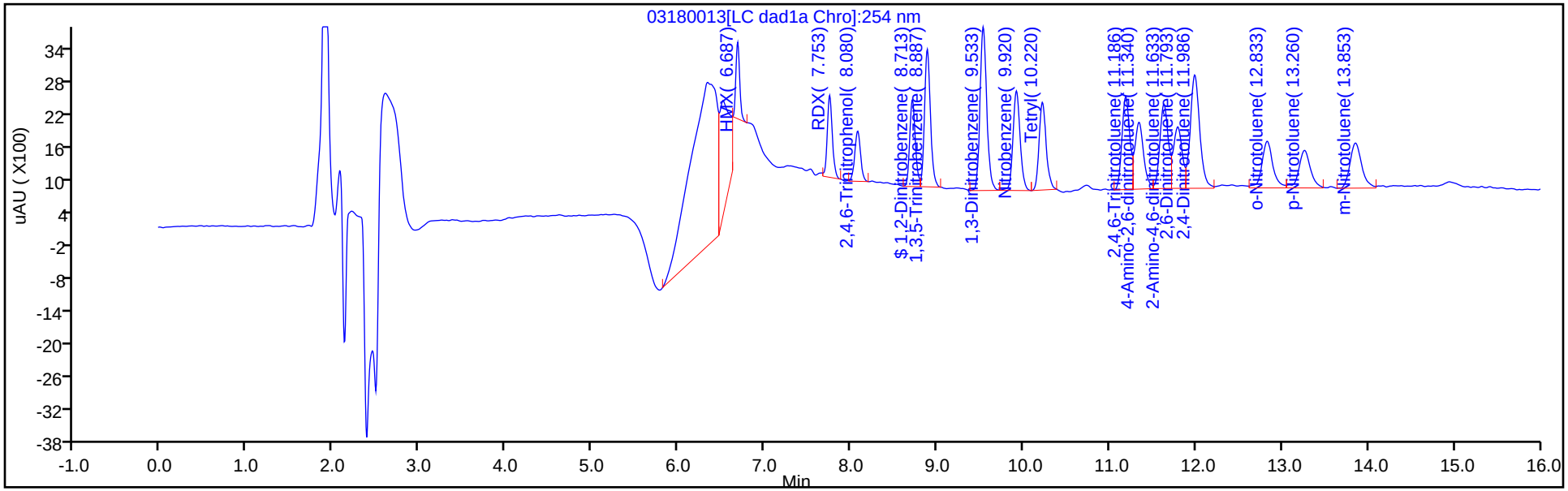
Report Date: 26-Mar-2020 15:45:44 Chrom Revision: 2.3 11-Mar-2020 18:53:20

Eurofins TestAmerica, Denver

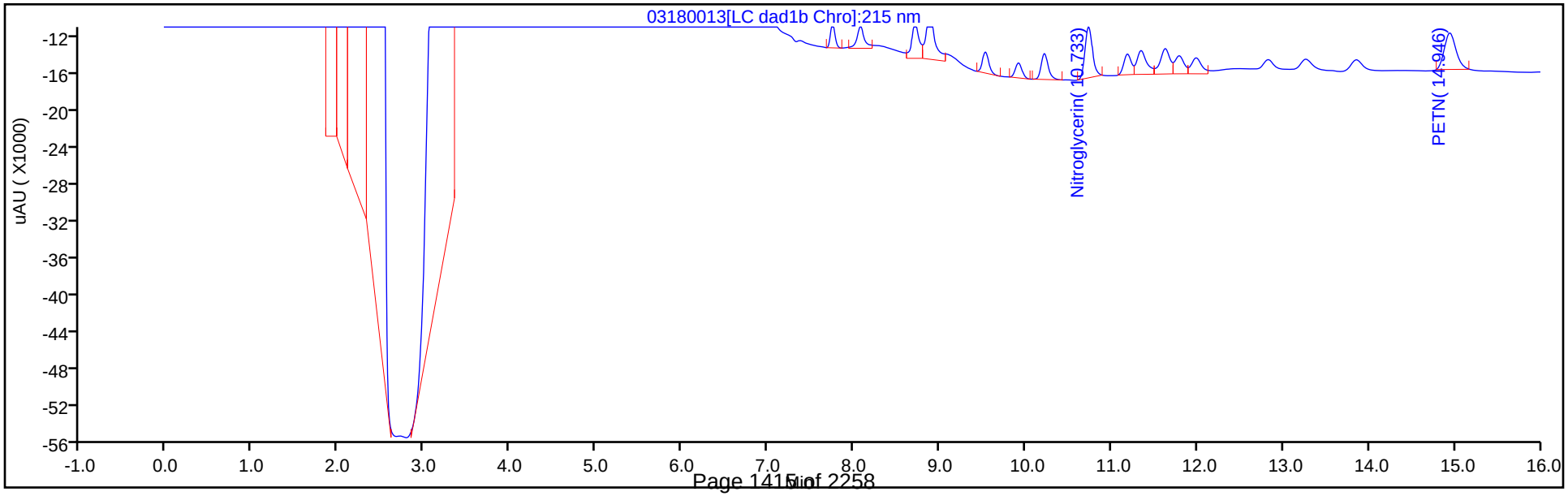
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180013.d

Injection Date:	18-Mar-2020 13:53:37	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC MAIN L3			Worklist Smp#:	13
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

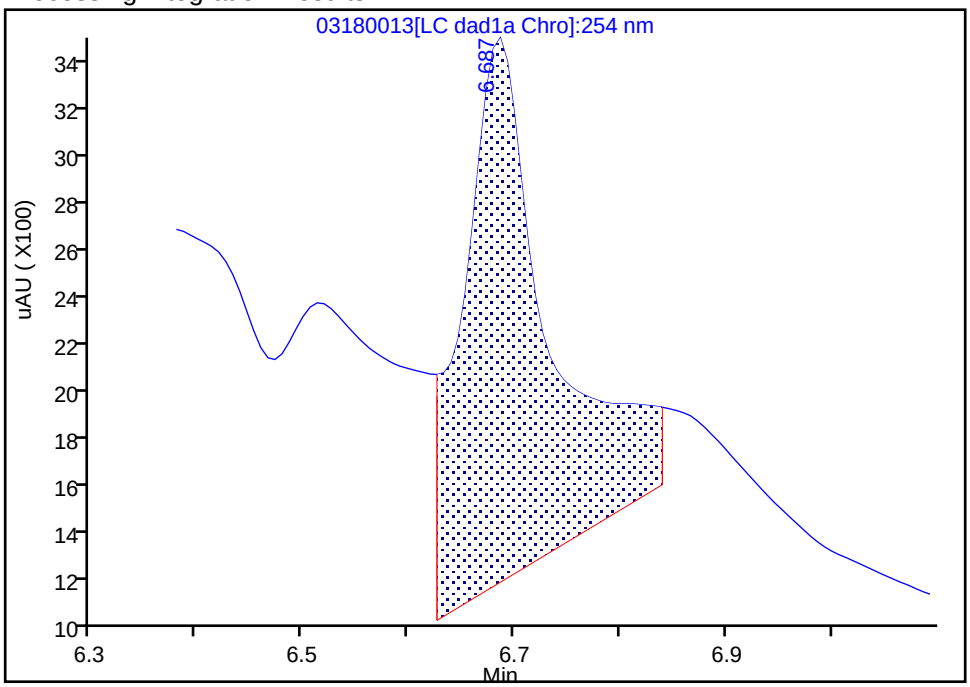
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180013.d
Injection Date: 18-Mar-2020 13:53:37 Instrument ID: CHHPLC_X3
Lims ID: IC MAIN L3
Client ID:
Operator ID: CB ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

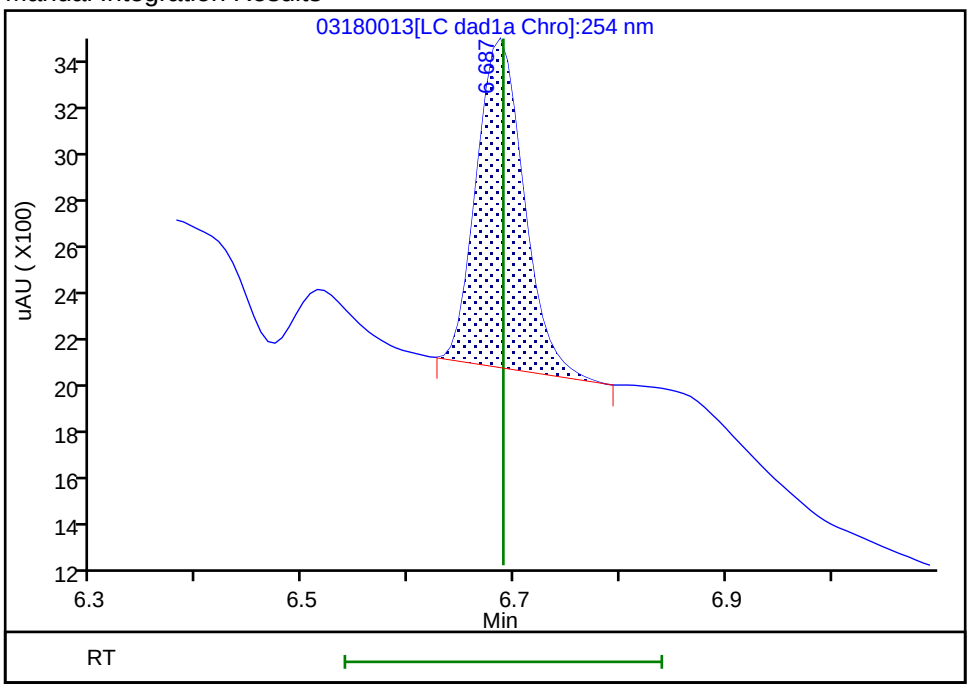
Processing Integration Results

RT: 6.69
Area: 12509
Amount: 0.070190
Amount Units: ug/mL



Manual Integration Results

RT: 6.69
Area: 4323
Amount: 0.050290
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:44:00
Audit Action: Manually Integrated Audit Reason: Baseline

Report Date: 26-Mar-2020 15:45:45 Chrom Revision: 2.3 11-Mar-2020 18:53:20

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180014.D
Lims ID: IC MAIN L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 18-Mar-2020 14:16:32 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC MAIN L2
Misc. Info.: 280-0090150-014
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 26-Mar-2020 15:45:44 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 19-Mar-2020 08:44:44

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
	3 HMX	1	6.689	6.689	0.000	1536	0.0250	0.0179	M
	7 RDX	1	7.755	7.749	0.006	2817	0.0250	0.0242	
	8 2,4,6-Trinitrophenol	1	8.082	8.076	0.006	1774	0.0250	0.0208	
$	9 1,2-Dinitrobenzene	1	8.709	8.709	0.000	2996	0.0250	0.0217	
	10 1,3,5-Trinitrobenzene	1	8.889	8.883	0.006	4845	0.0251	0.0210	
	11 1,3-Dinitrobenzene	1	9.535	9.529	0.006	6270	0.0251	0.0204	
	12 Nitrobenzene	1	9.922	9.916	0.006	4155	0.0251	0.0207	
	14 Tetryl	1	10.215	10.216	-0.001	3492	0.0251	0.0197	
	15 Nitroglycerin	2	10.735	10.729	0.006	13701	0.2500	0.2011	
	16 2,4,6-Trinitrotoluene	1	11.189	11.183	0.006	4307	0.0251	0.0211	
	17 4-Amino-2,6-dinitrotoluene	1	11.342	11.336	0.006	3443	0.0250	0.0258	
	18 2-Amino-4,6-dinitrotoluene	1	11.629	11.623	0.006	4046	0.0251	0.0199	M
	19 2,6-Dinitrotoluene	1	11.789	11.783	0.006	2987	0.0251	0.0200	M
	20 2,4-Dinitrotoluene	1	11.989	11.983	0.006	6274	0.0251	0.0207	
	21 o-Nitrotoluene	1	12.822	12.823	-0.001	3068	0.0250	0.0227	
	22 p-Nitrotoluene	1	13.269	13.256	0.013	2509	0.0251	0.0222	
	23 m-Nitrotoluene	1	13.849	13.849	0.000	3129	0.0250	0.0219	
	24 PETN	2	14.942	14.936	0.006	11624	0.2500	0.1479	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00061 Amount Added: 2.50 Units: uL

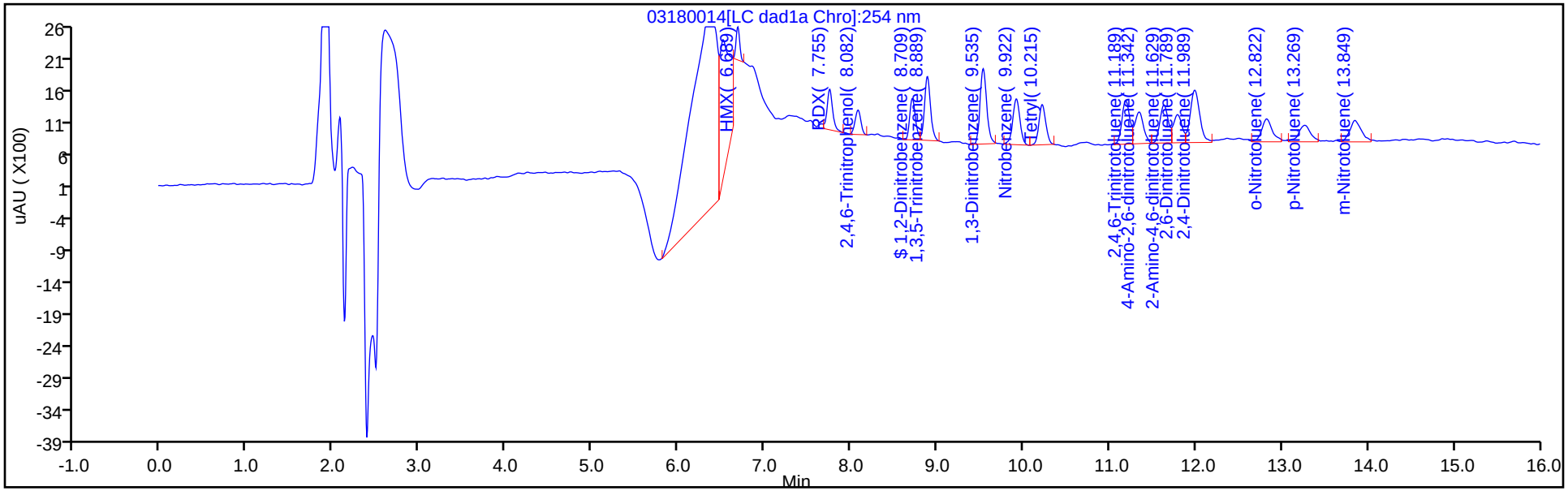
Report Date: 26-Mar-2020 15:45:45 Chrom Revision: 2.3 11-Mar-2020 18:53:20

Eurofins TestAmerica, Denver

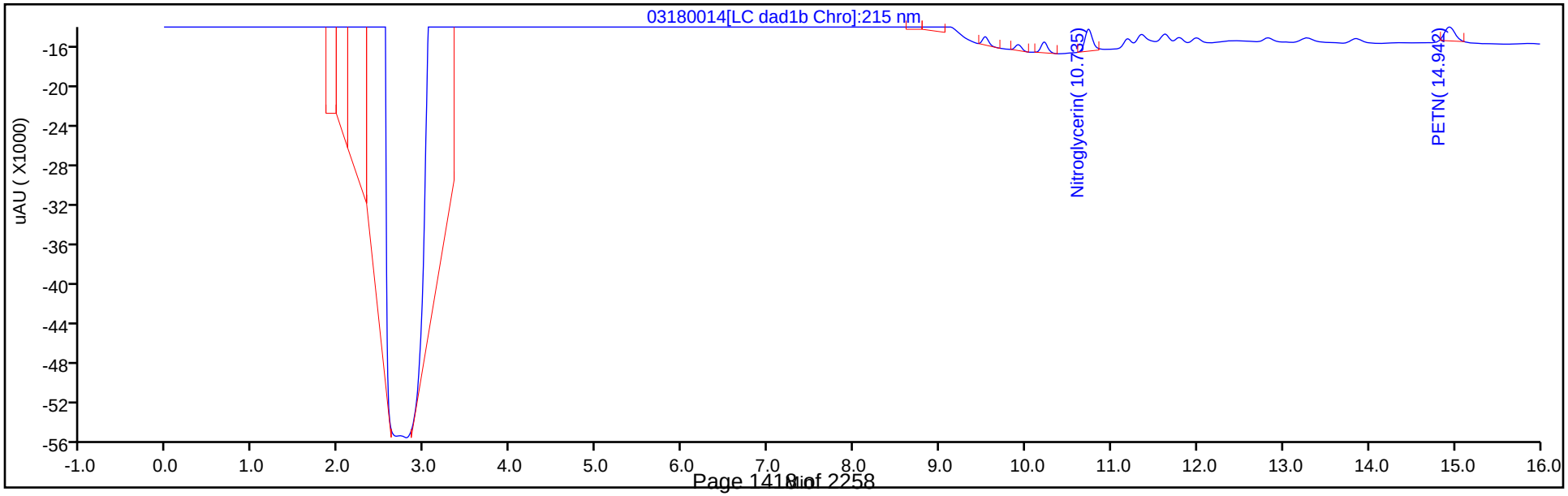
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180014.d

Injection Date:	18-Mar-2020 14:16:32	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC MAIN L2			Worklist Smp#:	14
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

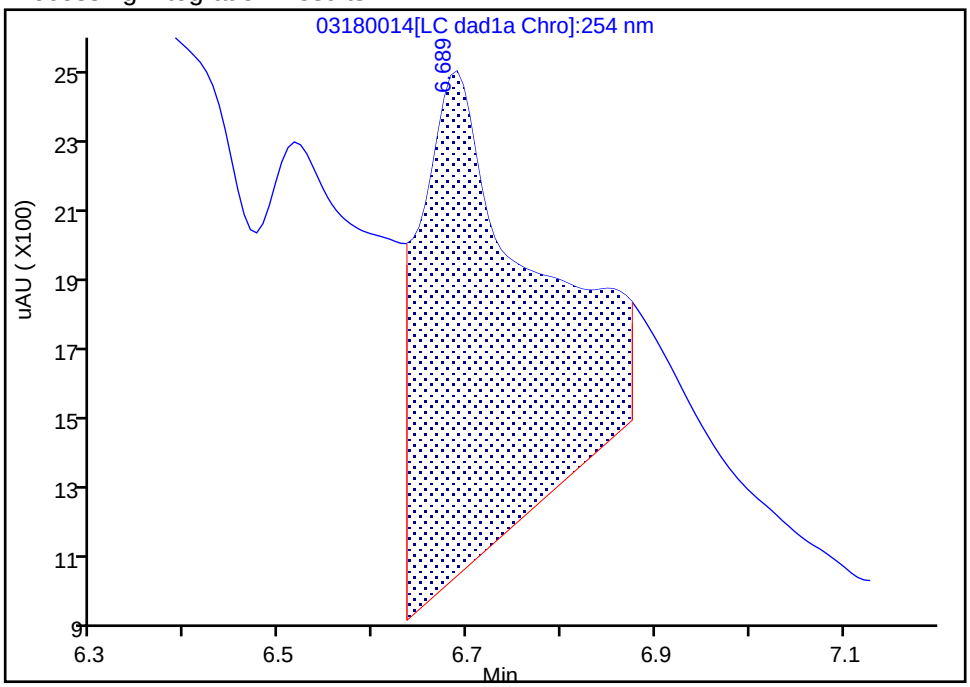
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180014.d
Injection Date: 18-Mar-2020 14:16:32 Instrument ID: CHHPLC_X3
Lims ID: IC MAIN L2
Client ID:
Operator ID: CB ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

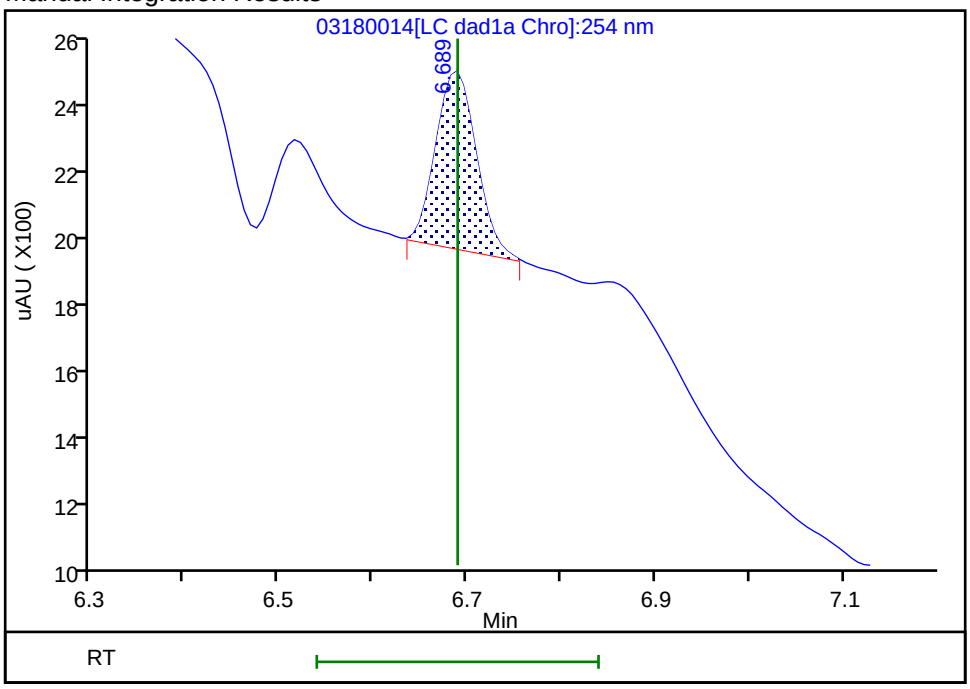
Processing Integration Results

RT: 6.69
Area: 11606
Amount: 0.072526
Amount Units: ug/mL



Manual Integration Results

RT: 6.69
Area: 1536
Amount: 0.017868
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:44:20
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

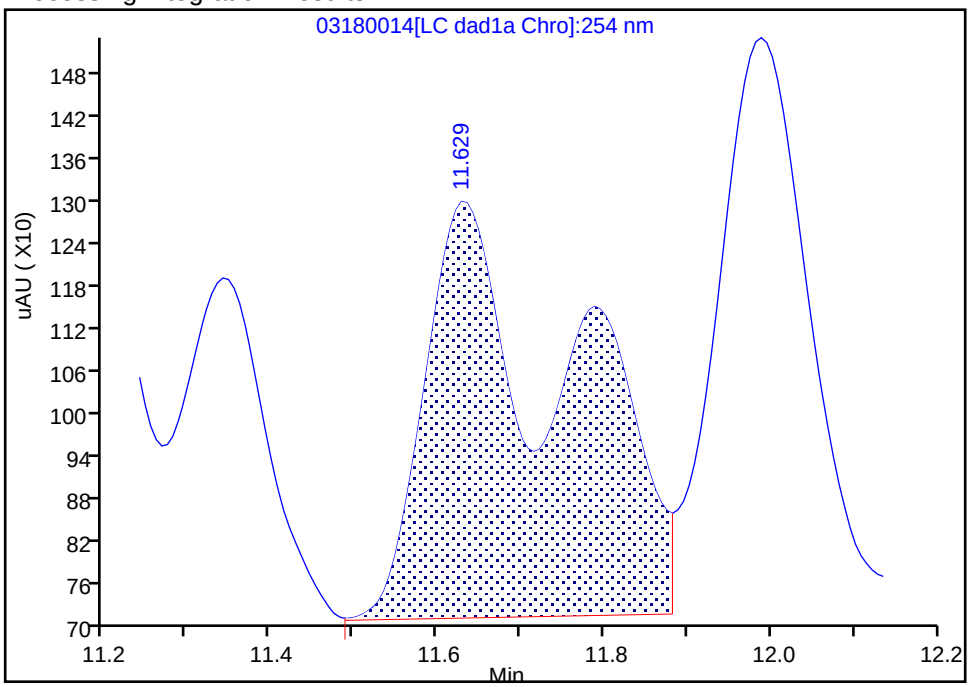
Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180014.d				
Injection Date:	18-Mar-2020 14:16:32	Instrument ID:	CHHPLC_X3		
Lims ID:	IC MAIN L2				
Client ID:					
Operator ID:	CB	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

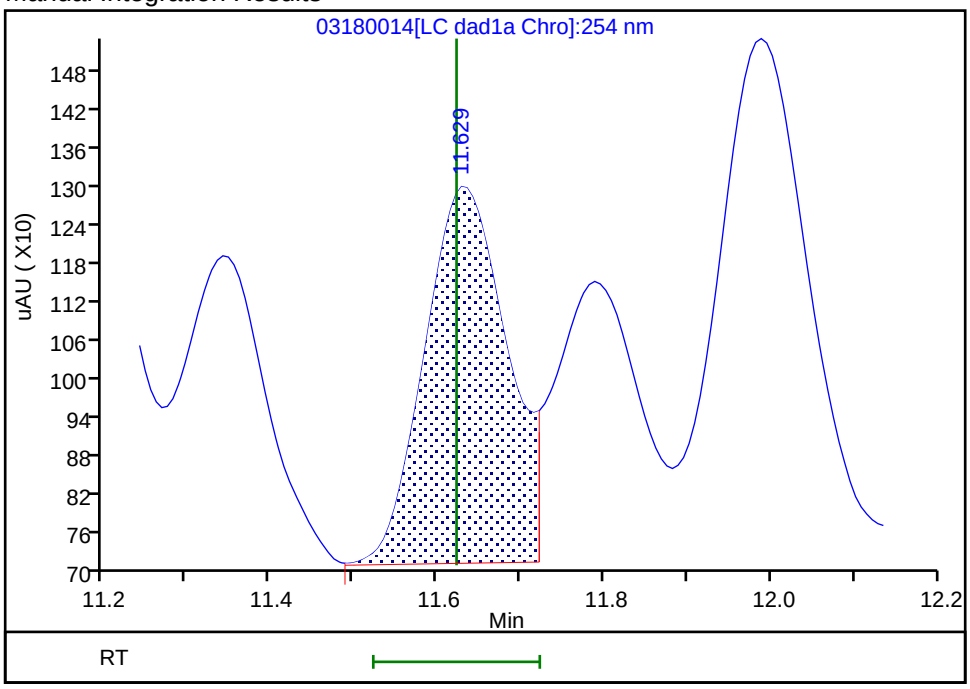
Processing Integration Results

RT: 11.63
Area: 7030
Amount: 0.030654
Amount Units: ug/mL



Manual Integration Results

RT: 11.63
Area: 4046
Amount: 0.019949
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:44:36

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D
Lims ID: IC MAIN L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 18-Mar-2020 14:39:27 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: IC MAIN L1
Misc. Info.: 280-0090150-015
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 26-Mar-2020 15:45:45 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 19-Mar-2020 08:46:42

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
	3 HMX	1		6.689			ND	ND	MU
	7 RDX	1		7.749			ND	ND	MU
	8 2,4,6-Trinitrophenol	1	8.082	8.076	0.006	1082	0.0125	0.0127	M
$	9 1,2-Dinitrobenzene	1	8.715	8.709	0.006	1531	0.0125	0.0111	
	10 1,3,5-Trinitrobenzene	1	8.888	8.883	0.005	2405	0.0125	0.0104	
	11 1,3-Dinitrobenzene	1	9.535	9.529	0.006	3191	0.0125	0.0104	
	12 Nitrobenzene	1	9.915	9.916	-0.001	2176	0.0126	0.0109	
	14 Tetryl	1	10.221	10.216	0.005	1664	0.0125	0.009399	
	15 Nitroglycerin	2	10.735	10.729	0.006	6790	0.1250	0.0997	
	16 2,4,6-Trinitrotoluene	1	11.195	11.183	0.012	1807	0.0126	0.008856	
	17 4-Amino-2,6-dinitrotoluene	1	11.341	11.336	0.005	981	0.0125	0.0120	
	18 2-Amino-4,6-dinitrotoluene	1	11.635	11.623	0.012	2123	0.0126	0.0105	M
	19 2,6-Dinitrotoluene	1	11.795	11.783	0.012	1508	0.0126	0.0101	M
	20 2,4-Dinitrotoluene	1	11.995	11.983	0.012	3142	0.0126	0.0103	
	21 o-Nitrotoluene	1	12.828	12.823	0.005	1615	0.0125	0.0120	
	22 p-Nitrotoluene	1	13.268	13.256	0.012	1080	0.0125	0.009557	
	23 m-Nitrotoluene	1	13.855	13.849	0.006	1403	0.0125	0.009809	
	24 PETN	2		14.936			ND	ND	MU

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated
U - Marked Undetected

Reagents:

8330IntermStk_00061 Amount Added: 1.25 Units: uL

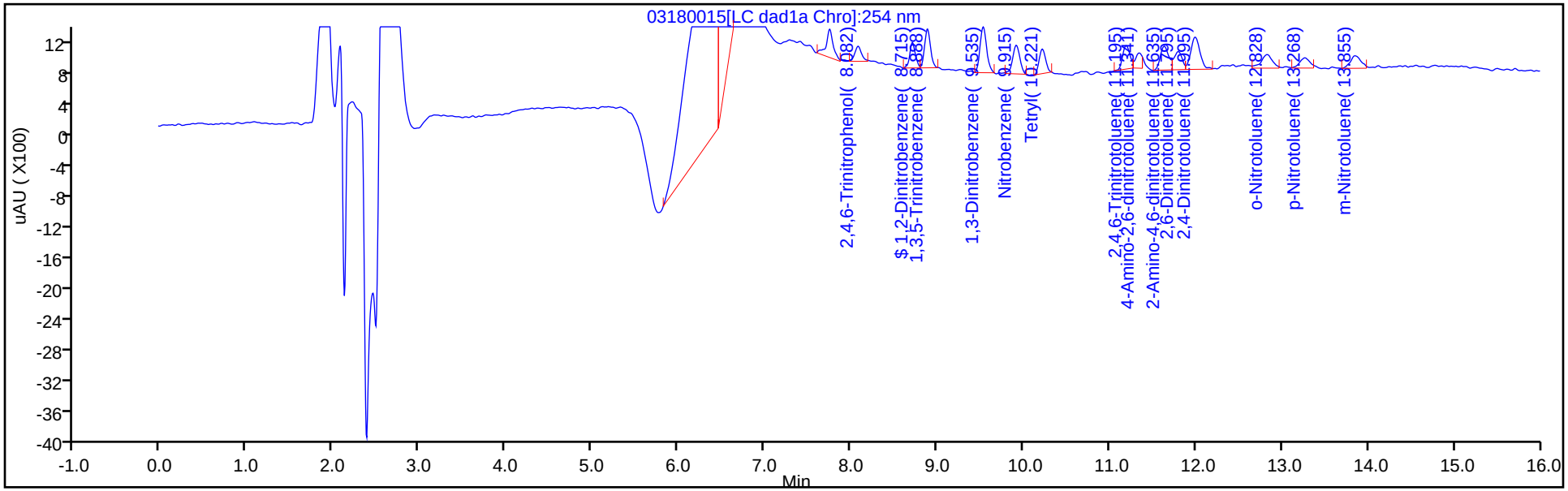
Report Date: 26-Mar-2020 15:45:46 Chrom Revision: 2.3 11-Mar-2020 18:53:20

Eurofins TestAmerica, Denver

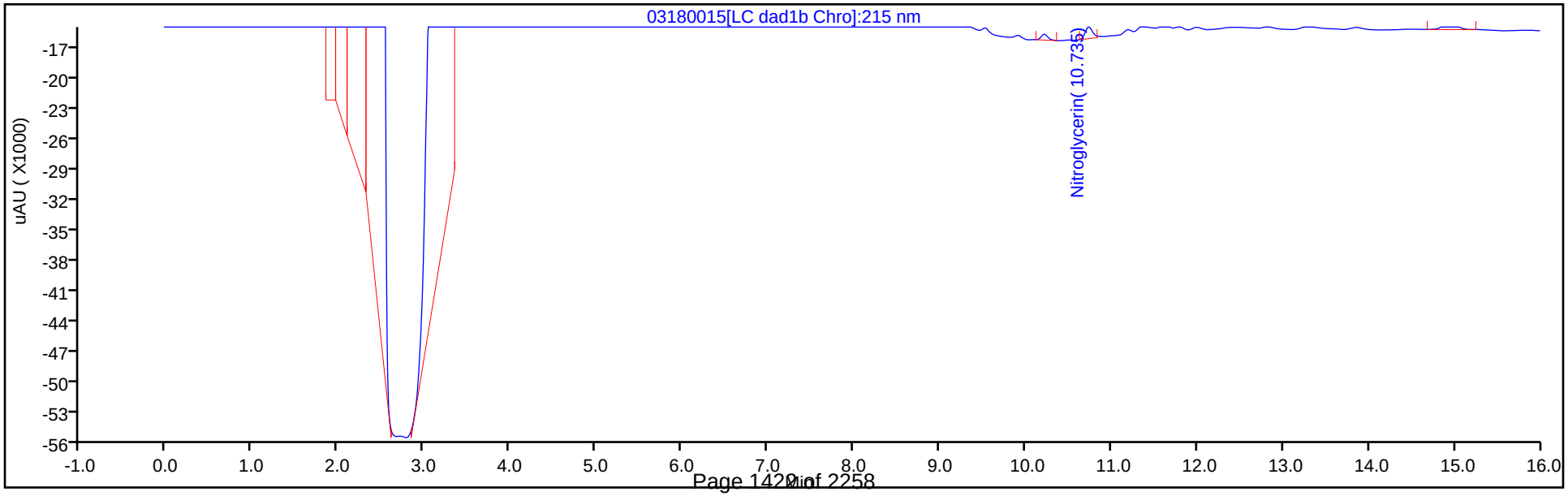
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180015.d

Injection Date:	18-Mar-2020 14:39:27	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	IC MAIN L1			Worklist Smp#:	15
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

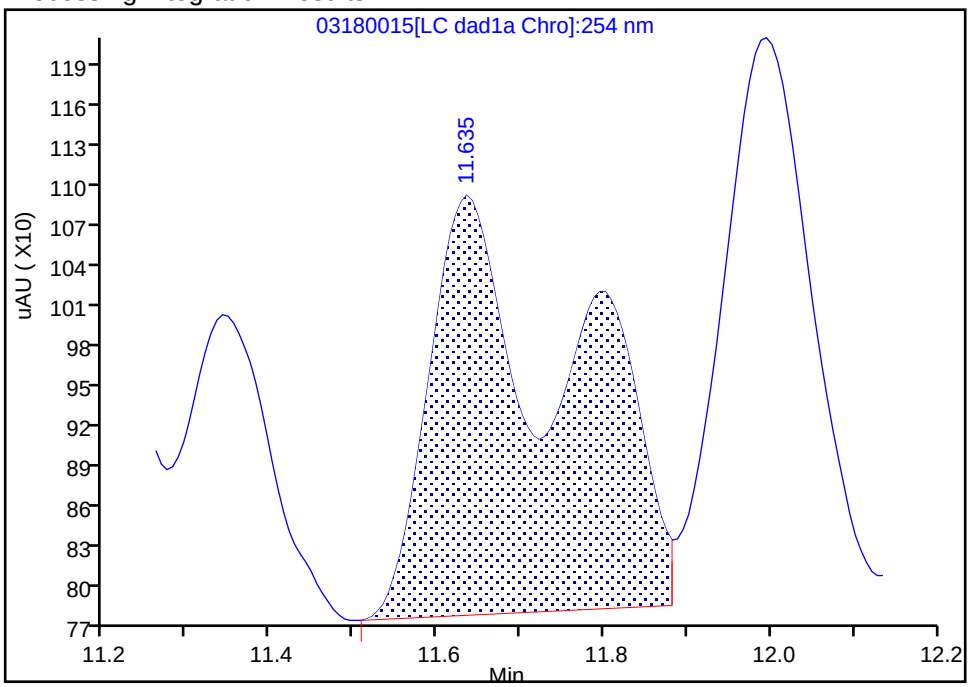
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180015.d
Injection Date: 18-Mar-2020 14:39:27 Instrument ID: CHHPLC_X3
Lims ID: IC MAIN L1
Client ID:
Operator ID: CB ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

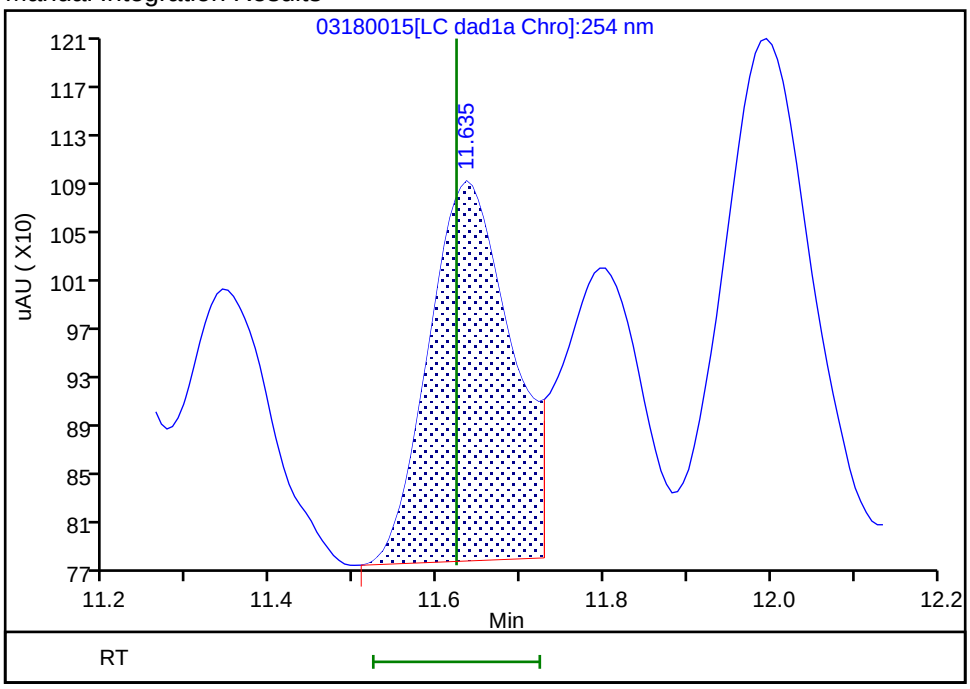
Processing Integration Results

RT: 11.63
Area: 3626
Amount: 0.016777
Amount Units: ug/mL



Manual Integration Results

RT: 11.63
Area: 2123
Amount: 0.010468
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:46:18
Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: ICV 280-494886/16 Calibration Date: 05/14/2020 21:31

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 05140016.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Picric acid	Ave	193810	184585		381	400	-4.8	15.0
HMX	Lin2		178815		374	400	-6.5	15.0
RDX	Ave	244360	211628		346	400	-13.4	15.0
Nitrobenzene	Ave	439227	438053		399	400	-0.3	15.0
1,3-Dinitrobenzene	Ave	674189	636963		378	400	-5.5	15.0
Nitroglycerin	Ave	126803	122258		3860	4000	-3.6	15.0
2-Nitrotoluene	Ave	272965	263495		386	400	-3.5	15.0
4-Nitrotoluene	Ave	240881	229805		382	400	-4.6	15.0
4-Amino-2,6-dinitrotoluene	Ave	345235	318460		369	400	-7.8	15.0
3-Nitrotoluene	Ave	298327	286883		385	400	-3.8	15.0
2-Amino-4,6-dinitrotoluene	Ave	465211	446188		384	400	-4.1	15.0
1,3,5-Trinitrobenzene	Ave	472451	495920		420	400	5.0	15.0
2,6-Dinitrotoluene	Lin2		302720		403	400	0.8	15.0
2,4-Dinitrotoluene	Ave	640113	590383		369	400	-7.8	15.0
Tetryl	Ave	368678	347680		377	400	-5.7	15.0
2,4,6-Trinitrotoluene	Lin1		390228		381	400	-4.8	15.0
PETN	Lin1		124707		3650	4000	-8.8	15.0
1,2-Dinitrobenzene	Lin1		250760		355	400	-11.2	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: ICV 280-494886/16 Calibration Date: 05/14/2020 21:31

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 05140016.D

Analyte	RT	RT WINDOW	
		FROM	TO
Picric acid	6.23	6.15	6.45
HMX	6.95	6.84	7.14
RDX	9.12	9.02	9.32
Nitrobenzene	12.05	11.96	12.26
1,3-Dinitrobenzene	15.50	15.40	15.70
Nitroglycerin	15.81	15.70	16.00
2-Nitrotoluene	16.49	16.38	16.68
4-Nitrotoluene	16.77	16.67	16.97
4-Amino-2,6-dinitrotoluene	17.10	17.00	17.30
3-Nitrotoluene	17.69	17.60	17.90
2-Amino-4,6-dinitrotoluene	17.99	17.90	18.20
1,3,5-Trinitrobenzene	18.83	18.74	19.04
2,6-Dinitrotoluene	19.75	19.66	19.96
2,4-Dinitrotoluene	20.24	20.14	20.44
Tetryl	23.51	23.40	23.70
2,4,6-Trinitrotoluene	24.61	24.50	24.80
PETN	25.25	25.13	25.43
1,2-Dinitrobenzene	12.99	12.89	13.19

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140016.D
Lims ID: ICV FULL
Client ID:
Sample Type: ICV
Inject. Date: 14-May-2020 21:31:26 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICV FULL
Misc. Info.: 280-0091518-016
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist:

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:00:59 Calib Date: 14-May-2020 20:56:30
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140015.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 15-May-2020 11:55:09

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1	2,6-diamino-4-nitrotoluene	1	4.307	4.366	-0.059	179307	0.4000	0.4177	M
2	2,4-diamino-6-nitrotoluene	1	4.840	4.880	-0.040	97723	0.4000	0.3877	M
5	2,4,6-Trinitrophenol	1	6.234	6.300	-0.066	73834	0.4000	0.3810	a
6	HMX	1	6.954	6.986	-0.032	71526	0.4000	0.3740	
8	RDX	1	9.120	9.173	-0.053	84651	0.4000	0.3464	
9	Nitrobenzene	1	12.053	12.106	-0.053	175221	0.4000	0.3989	
$ 10	1,2-Dinitrobenzene	1	12.987	13.040	-0.053	100304	0.4000	0.3552	
11	3,5-Dinitroaniline	1	14.827	14.886	-0.059	185478	0.4000	0.3767	
12	1,3-Dinitrobenzene	1	15.500	15.553	-0.053	254785	0.4000	0.3779	
13	Nitroglycerin	2	15.807	15.853	-0.046	489033	4.00	3.86	
14	o-Nitrotoluene	1	16.493	16.533	-0.040	105398	0.4000	0.3861	M
15	p-Nitrotoluene	1	16.767	16.820	-0.053	91922	0.4000	0.3816	M
16	4-Amino-2,6-dinitrotoluene	1	17.100	17.146	-0.046	127384	0.4000	0.3690	M
17	m-Nitrotoluene	1	17.693	17.753	-0.060	114753	0.4000	0.3847	M
18	2-Amino-4,6-dinitrotoluene	1	17.987	18.046	-0.059	178475	0.4000	0.3836	M
19	1,3,5-Trinitrobenzene	1	18.833	18.886	-0.053	198368	0.4000	0.4199	M
20	2,6-Dinitrotoluene	1	19.753	19.806	-0.053	121088	0.4000	0.4033	M
21	2,4-Dinitrotoluene	1	20.240	20.293	-0.053	236153	0.4000	0.3689	M
22	Tetryl	1	23.507	23.553	-0.046	139072	0.4000	0.3772	
23	2,4,6-Trinitrotoluene	1	24.607	24.653	-0.046	156091	0.4000	0.3808	
24	PETN	2	25.254	25.280	-0.026	498829	4.00	3.65	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8330Surrogate_00114	Amount Added:	40.00	Units: uL
3,5-DNA LCS_00036	Amount Added:	40.00	Units: uL
8330 LCS_00098	Amount Added:	40.00	Units: uL
8330DiaminLCS_00038	Amount Added:	40.00	Units: uL

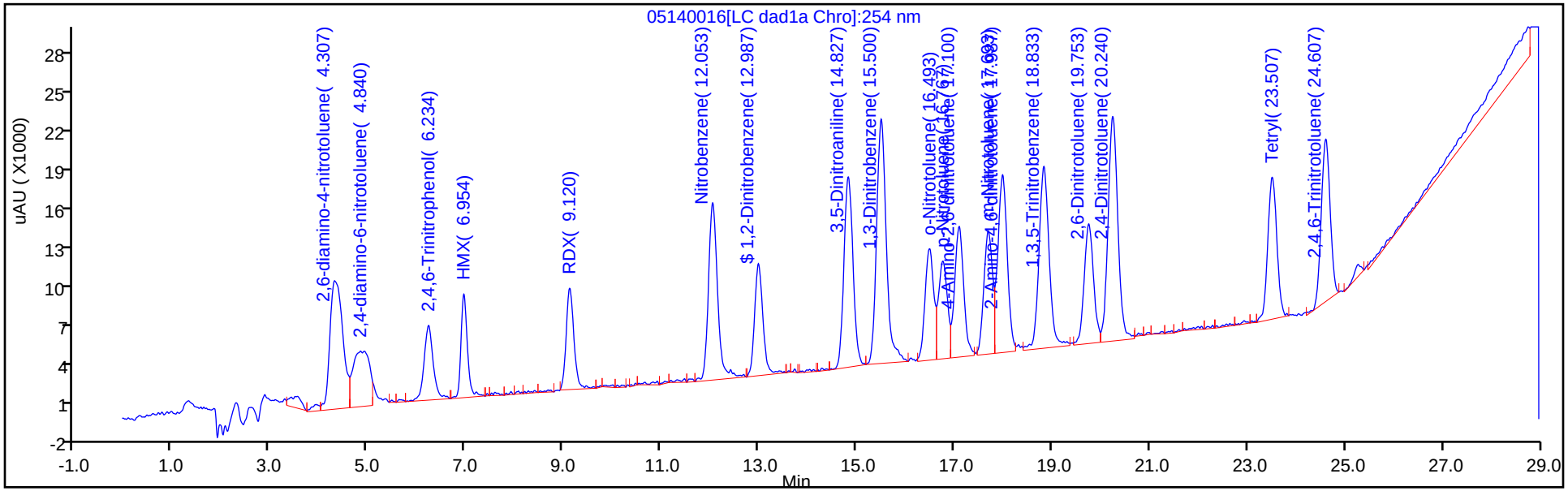
Report Date: 15-May-2020 12:01:01 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

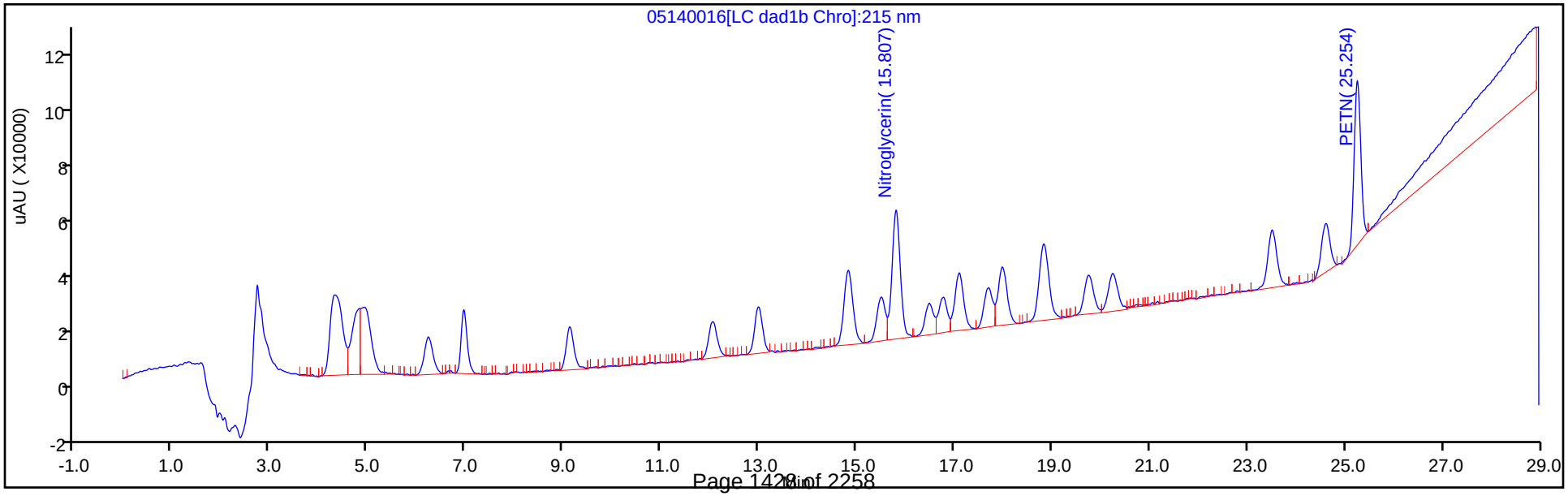
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d

Injection Date:	14-May-2020 21:31:26	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	ICV FULL			Worklist Smp#:	16
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

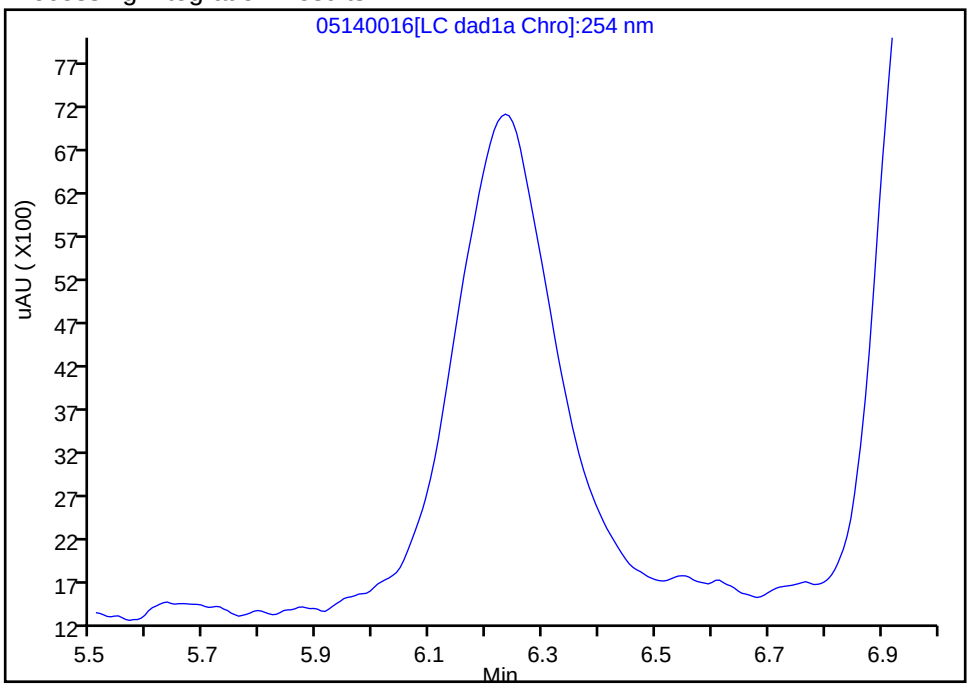
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d				
Injection Date:	14-May-2020 21:31:26	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	CB	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

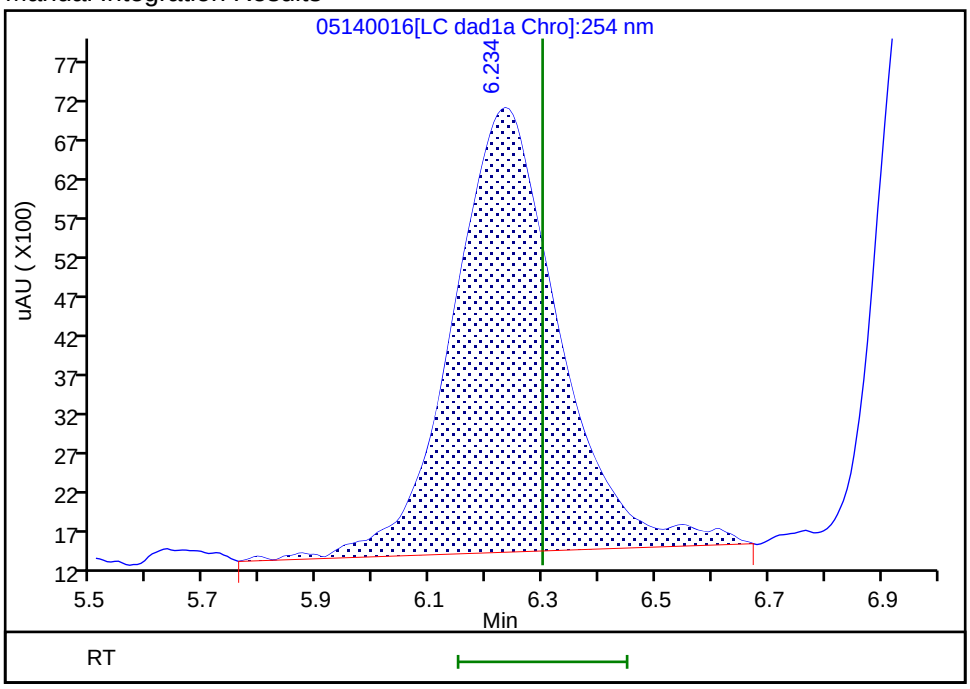
Not Detected
Expected RT: 6.30

Processing Integration Results



Manual Integration Results

RT: 6.23
Area: 73834
Amount: 0.380960
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:14:55
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

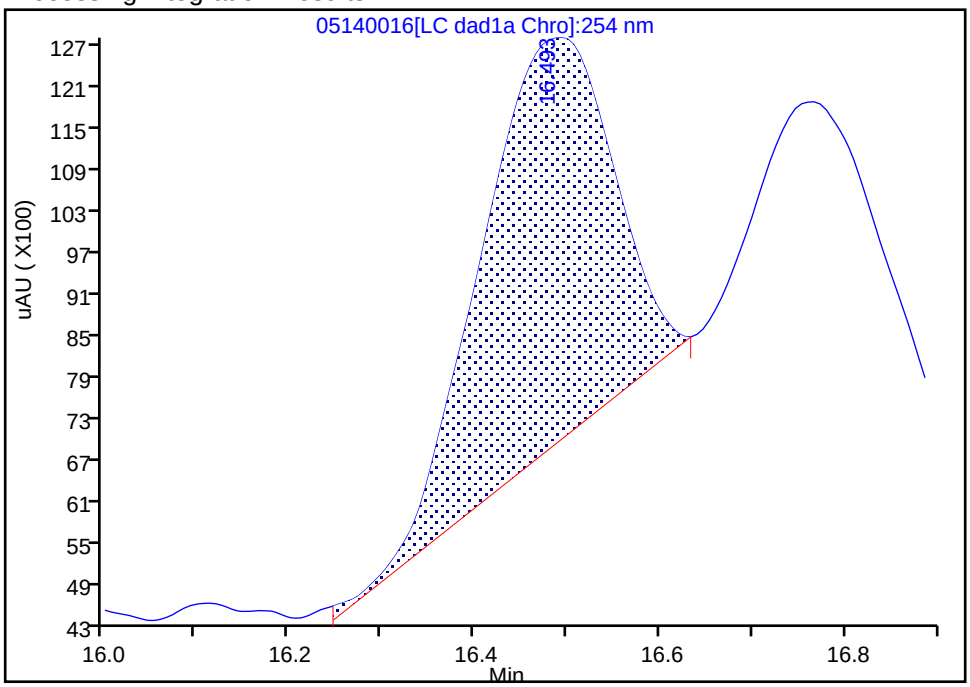
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d
Injection Date: 14-May-2020 21:31:26 Instrument ID: CHHPLC_G2_LUNA
Lims ID: ICV FULL
Client ID:
Operator ID: CB ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

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

Signal: 1

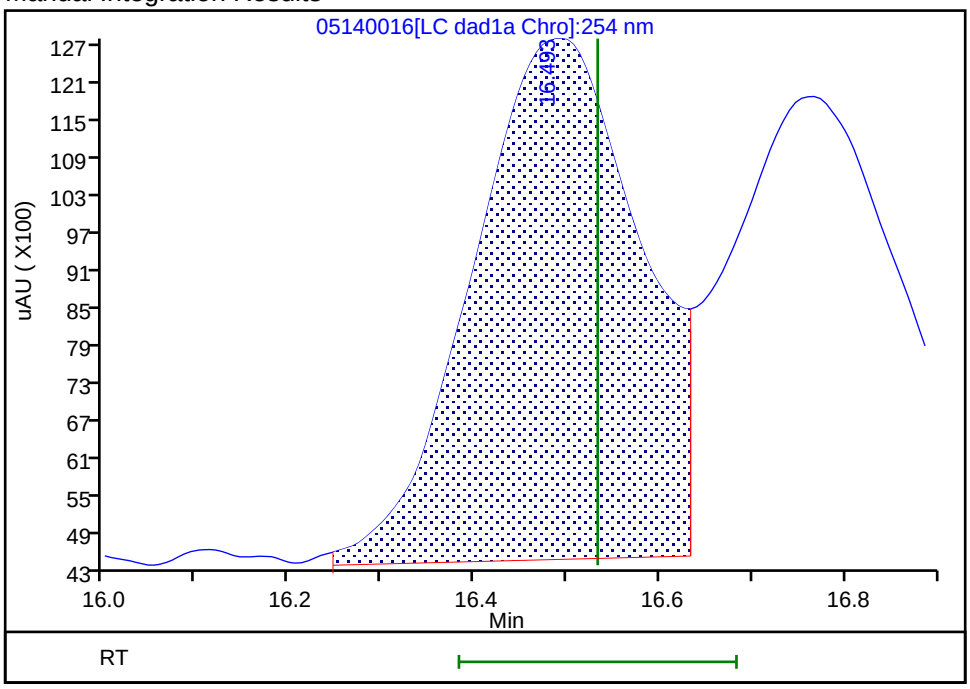
Processing Integration Results

RT: 16.49
Area: 59335
Amount: 0.217373
Amount Units: ug/ml



Manual Integration Results

RT: 16.49
Area: 105398
Amount: 0.386123
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:33:24
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

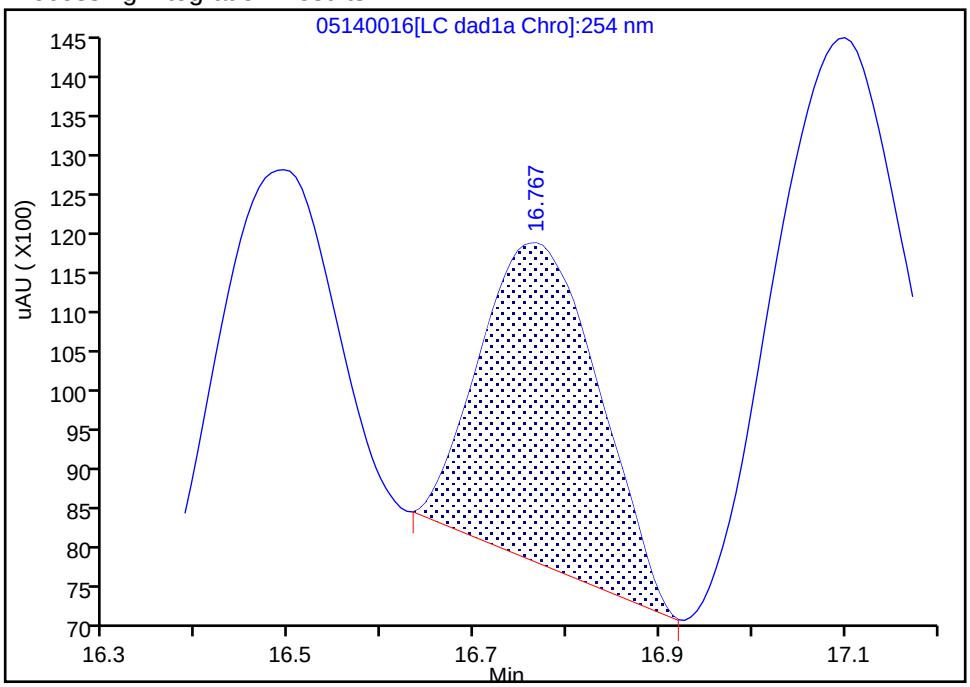
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d				
Injection Date:	14-May-2020 21:31:26	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	CB	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

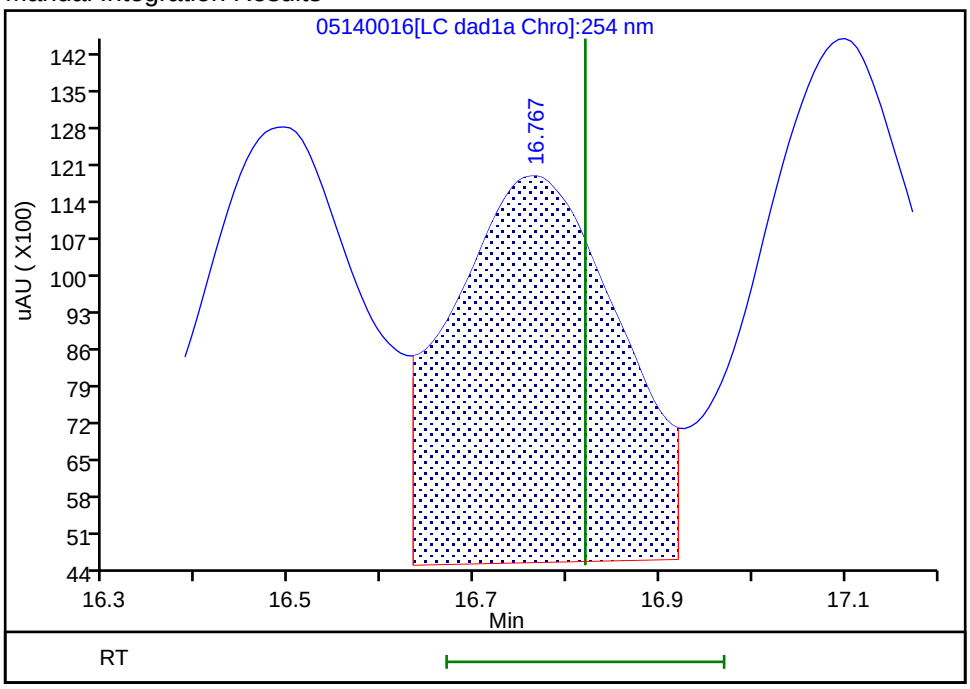
Processing Integration Results

RT: 16.77
Area: 36452
Amount: 0.151328
Amount Units: ug/ml



Manual Integration Results

RT: 16.77
Area: 91922
Amount: 0.381607
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:33:24
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

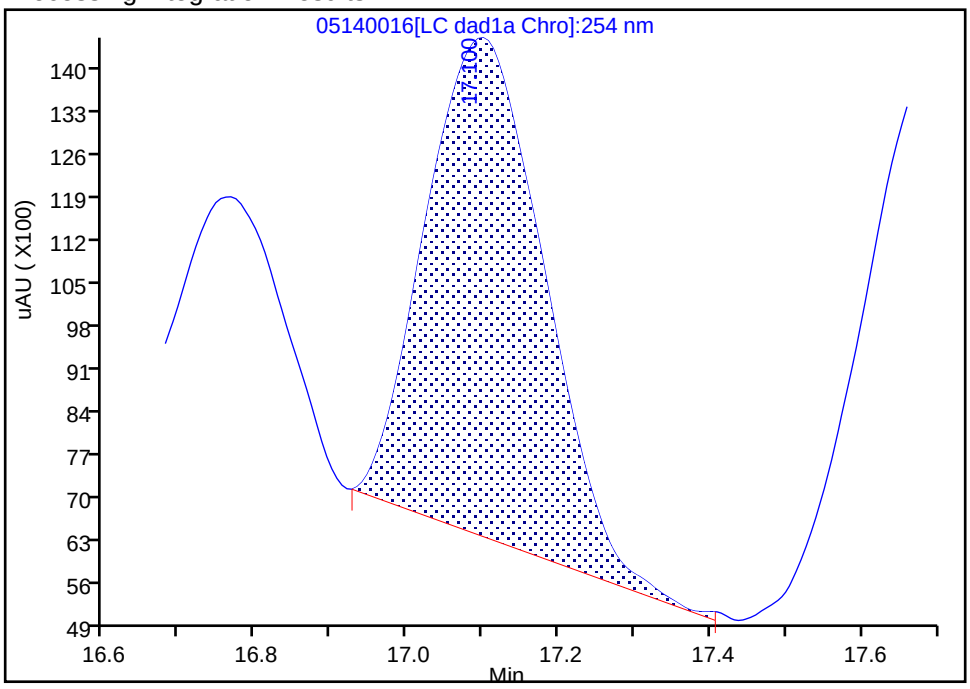
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d				
Injection Date:	14-May-2020 21:31:26	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	CB	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

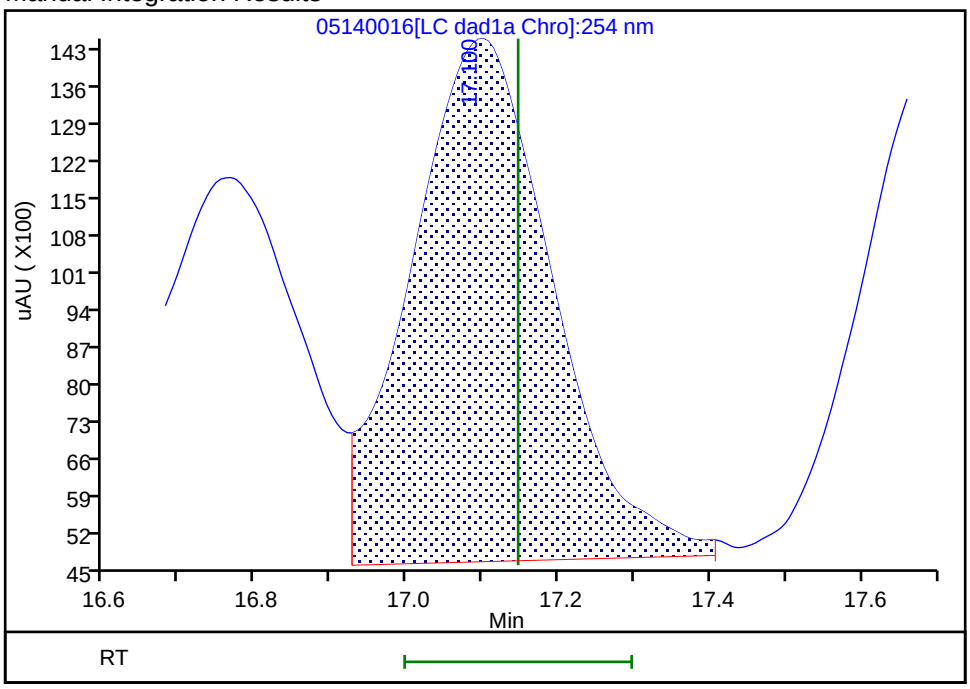
Processing Integration Results

RT: 17.10
Area: 89570
Amount: 0.259447
Amount Units: ug/ml



Manual Integration Results

RT: 17.10
Area: 127384
Amount: 0.368978
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:33:24

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

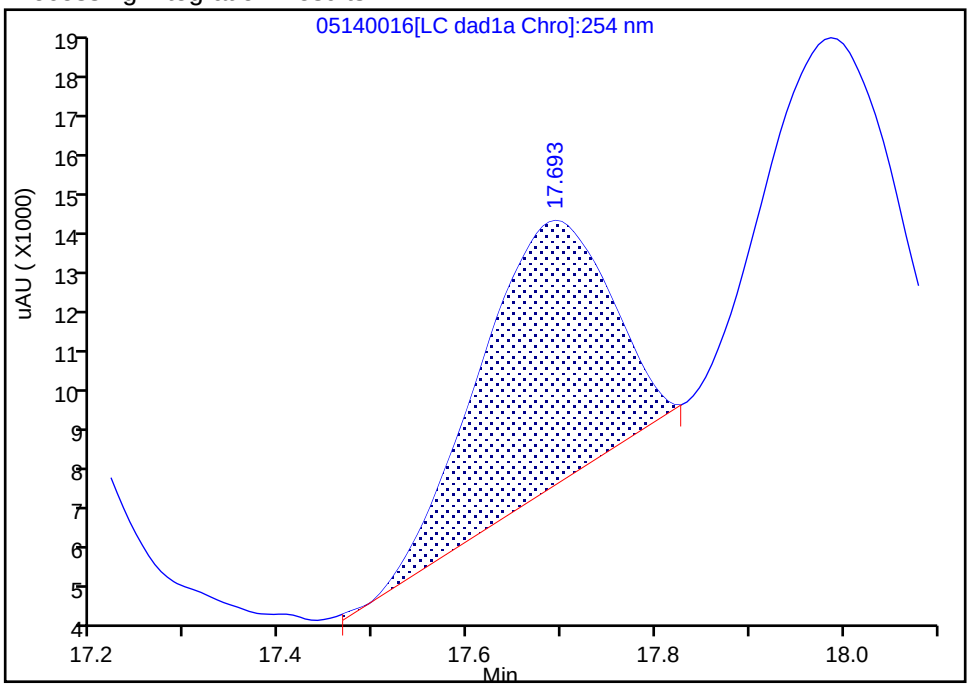
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d				
Injection Date:	14-May-2020 21:31:26	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	CB	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

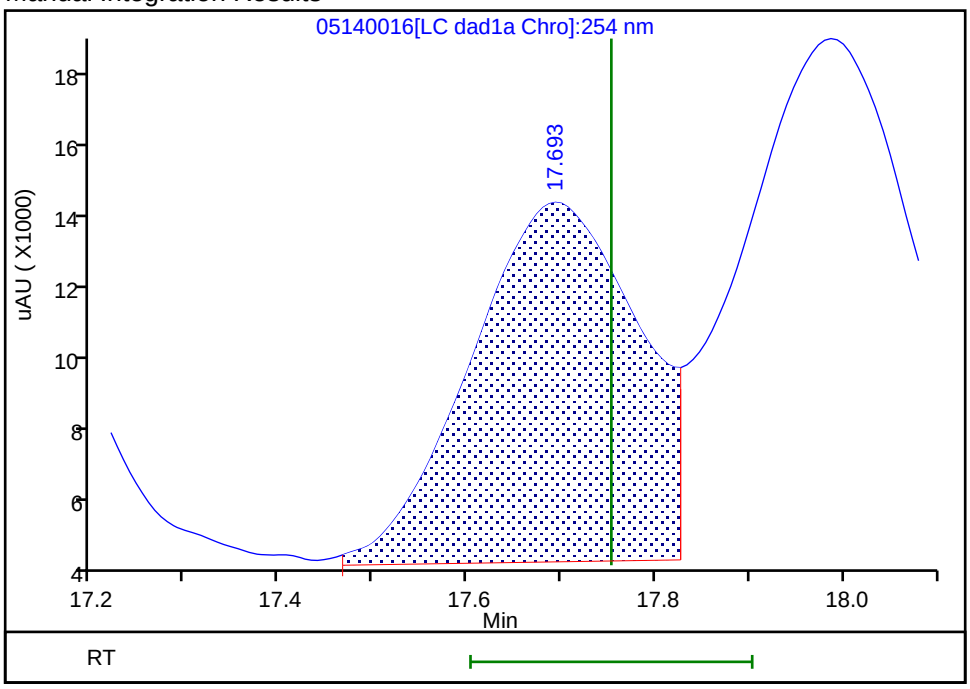
Processing Integration Results

RT: 17.69
Area: 60008
Amount: 0.201149
Amount Units: ug/ml



Manual Integration Results

RT: 17.69
Area: 114753
Amount: 0.384655
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:33:24
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

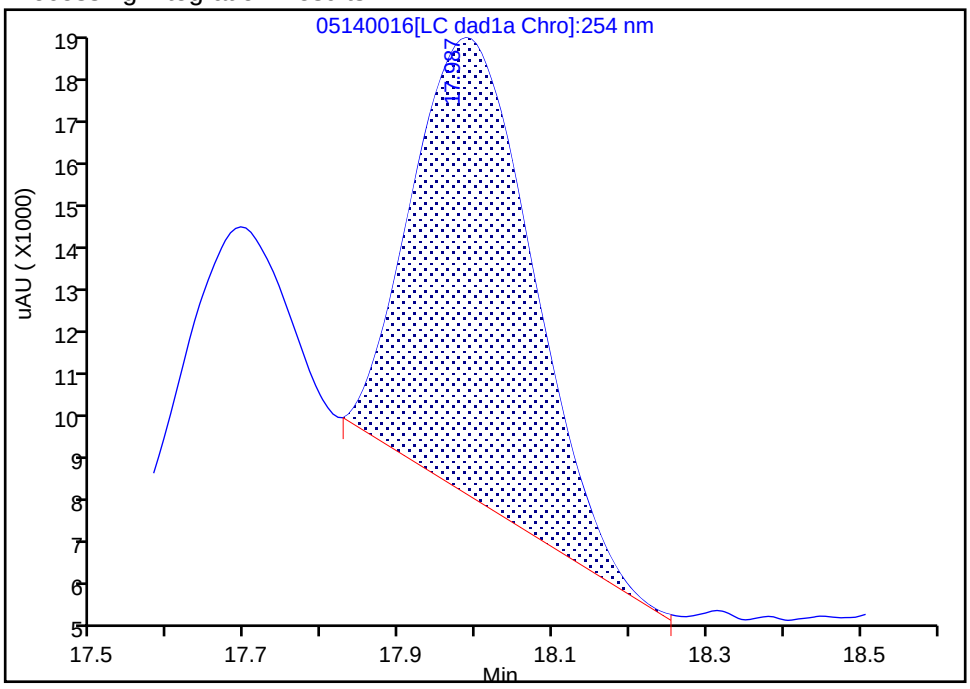
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d				
Injection Date:	14-May-2020 21:31:26	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	CB	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

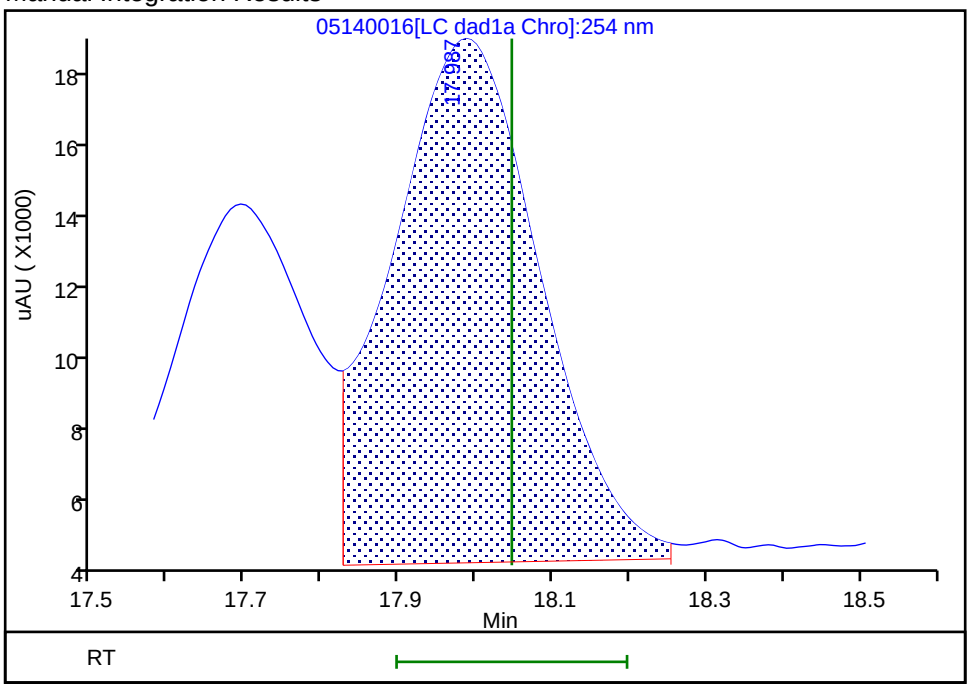
Processing Integration Results

RT: 17.99
Area: 111749
Amount: 0.240211
Amount Units: ug/ml



Manual Integration Results

RT: 17.99
Area: 178475
Amount: 0.383643
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:33:24
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

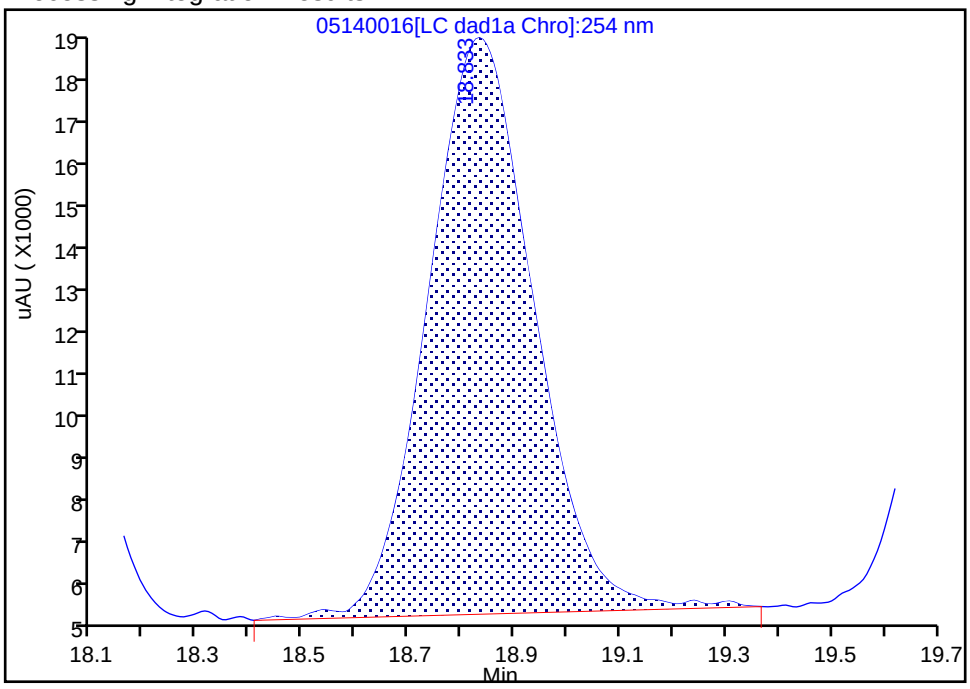
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d				
Injection Date:	14-May-2020 21:31:26	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	CB	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

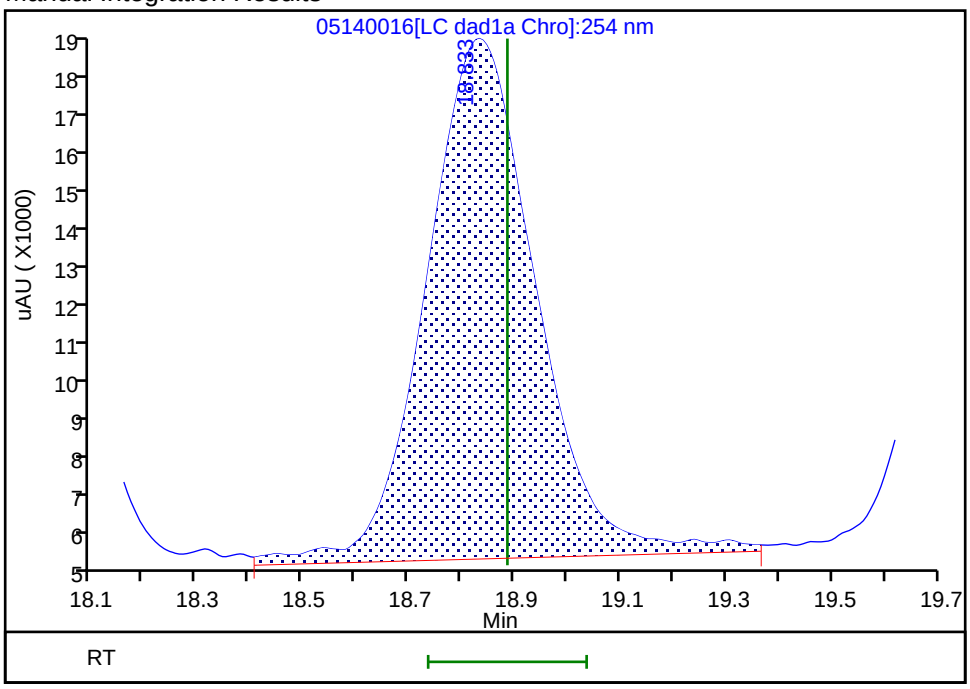
Processing Integration Results

RT: 18.83
Area: 187655
Amount: 0.397195
Amount Units: ug/ml



Manual Integration Results

RT: 18.83
Area: 198368
Amount: 0.419870
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:33:24

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

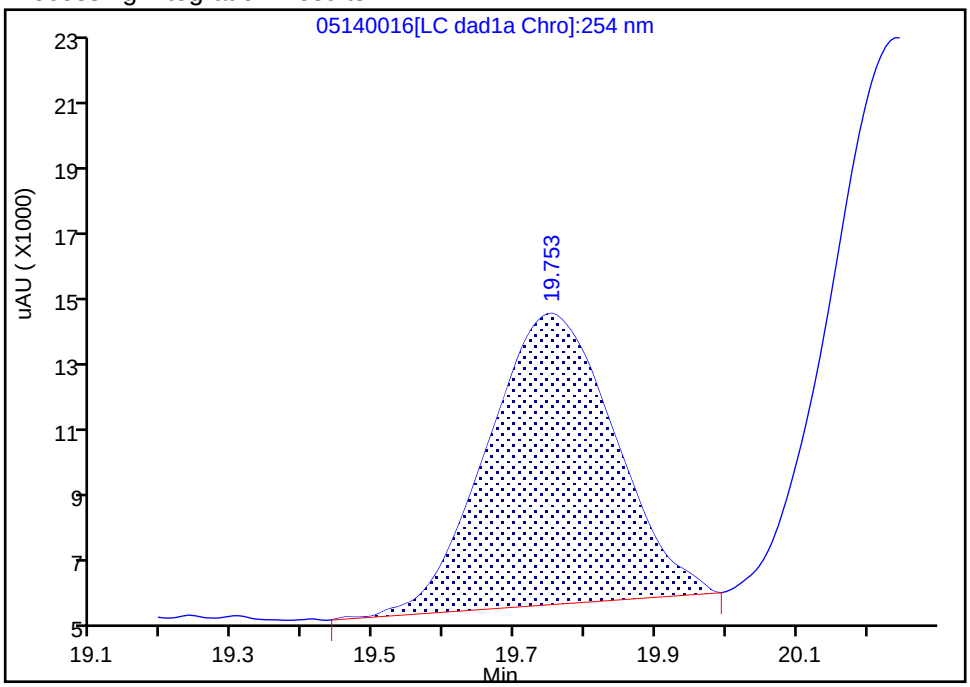
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d
Injection Date: 14-May-2020 21:31:26 Instrument ID: CHHPLC_G2_LUNA
Lims ID: ICV FULL
Client ID:
Operator ID: CB ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

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

Signal: 1

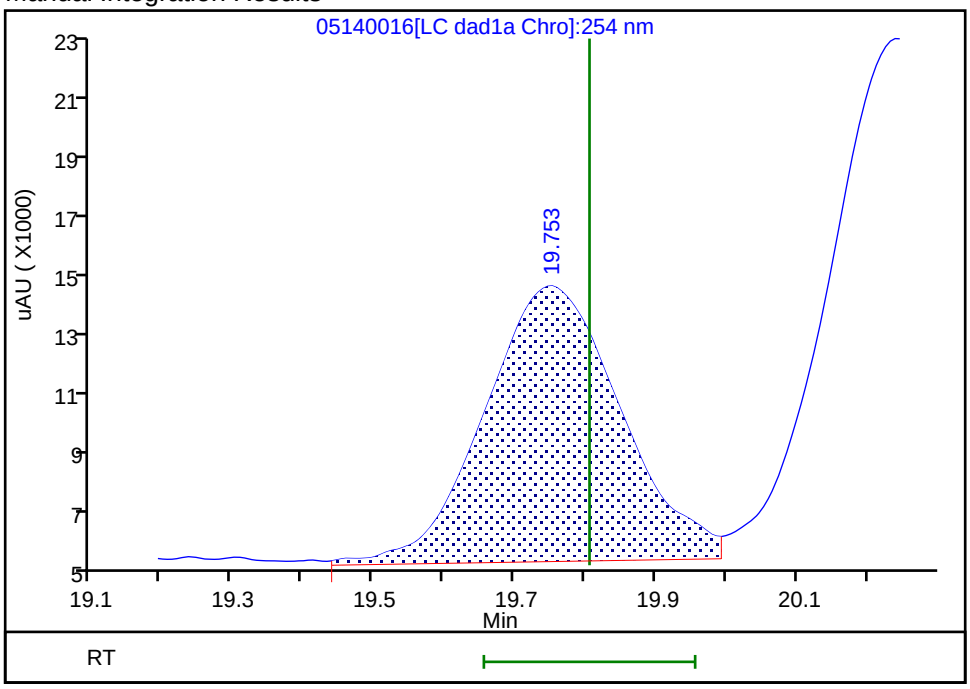
Processing Integration Results

RT: 19.75
Area: 106845
Amount: 0.315968
Amount Units: ug/ml



Manual Integration Results

RT: 19.75
Area: 121088
Amount: 0.403336
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:33:24
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

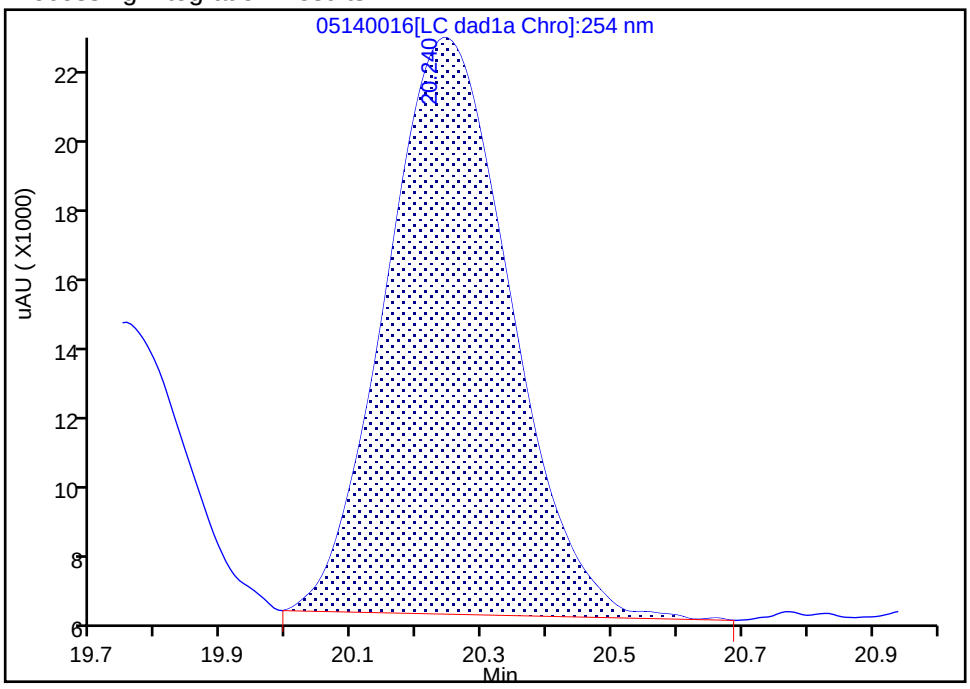
Data File:	\\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140016.d				
Injection Date:	14-May-2020 21:31:26	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	CB	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

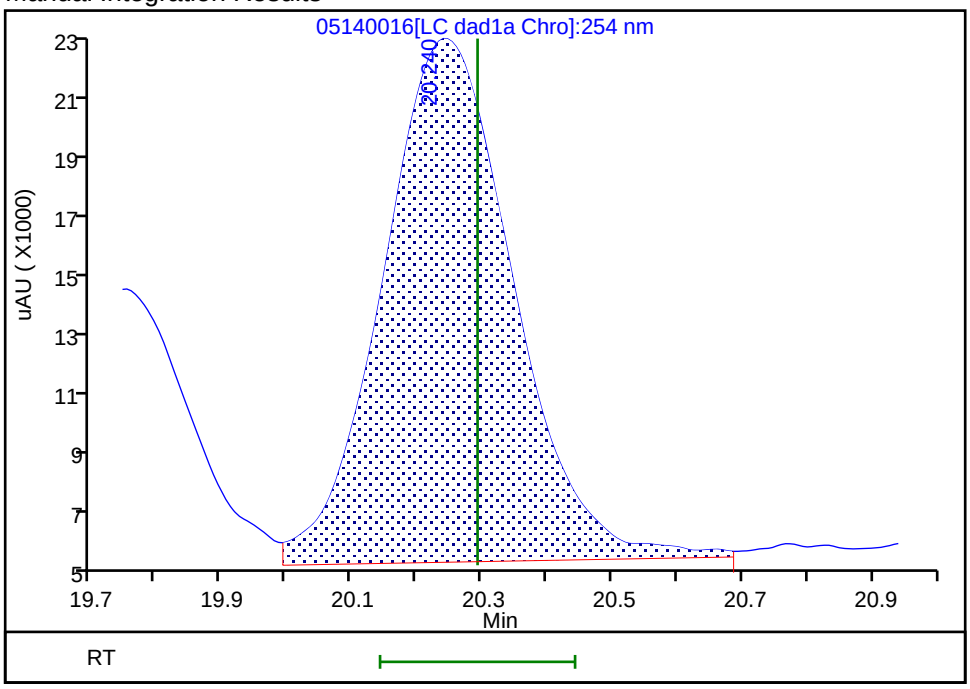
Processing Integration Results

RT: 20.24
Area: 217350
Amount: 0.339549
Amount Units: ug/ml



Manual Integration Results

RT: 20.24
Area: 236153
Amount: 0.368924
Amount Units: ug/ml



Reviewer: zhangji, 15-May-2020 11:33:24

Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: ICV 280-494886/26 Calibration Date: 05/15/2020 03:21

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 05140026.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	435816	391496		360	400	-10.2	15.0
DNX	Ave	321206	289486		361	400	-9.9	15.0
MNX	Lin2		268209		449	467	-3.8	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: ICV 280-494886/26 Calibration Date: 05/15/2020 03:21

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 05140026.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.41	5.27	5.57
DNX	6.22	6.08	6.38
MNX	7.73	7.59	7.89

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140026.D
Lims ID: ICV DMT
Client ID:
Sample Type: ICV
Inject. Date: 15-May-2020 03:21:17 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICV DMT
Misc. Info.: 280-0091518-026
Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
Sublist:

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 15-May-2020 12:01:05 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX0318

First Level Reviewer: zhangji Date: 15-May-2020 11:38:34

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.408	5.417	-0.009	156755	0.4004	0.3597	
4 DNX	1	6.215	6.231	-0.016	115910	0.4004	0.3609	
7 MNX	1	7.728	7.744	-0.016	125200	0.4668	0.4488	

Reagents:

8330_OP_DMT_00008 Amount Added: 40.00 Units: uL

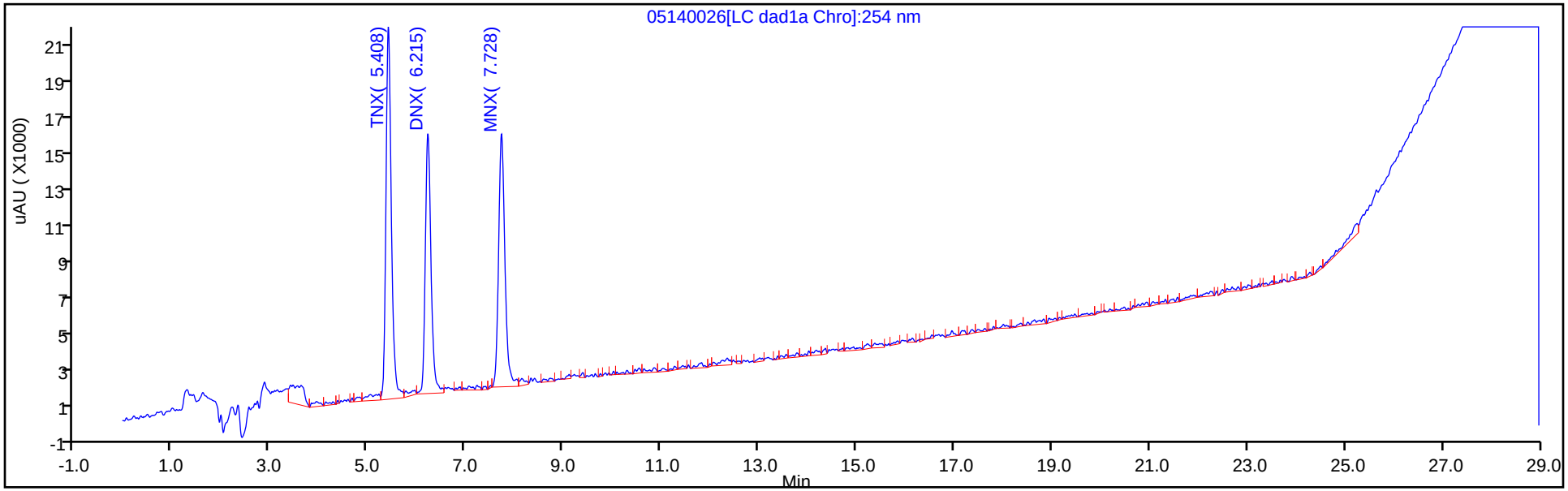
Report Date: 15-May-2020 12:01:06 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

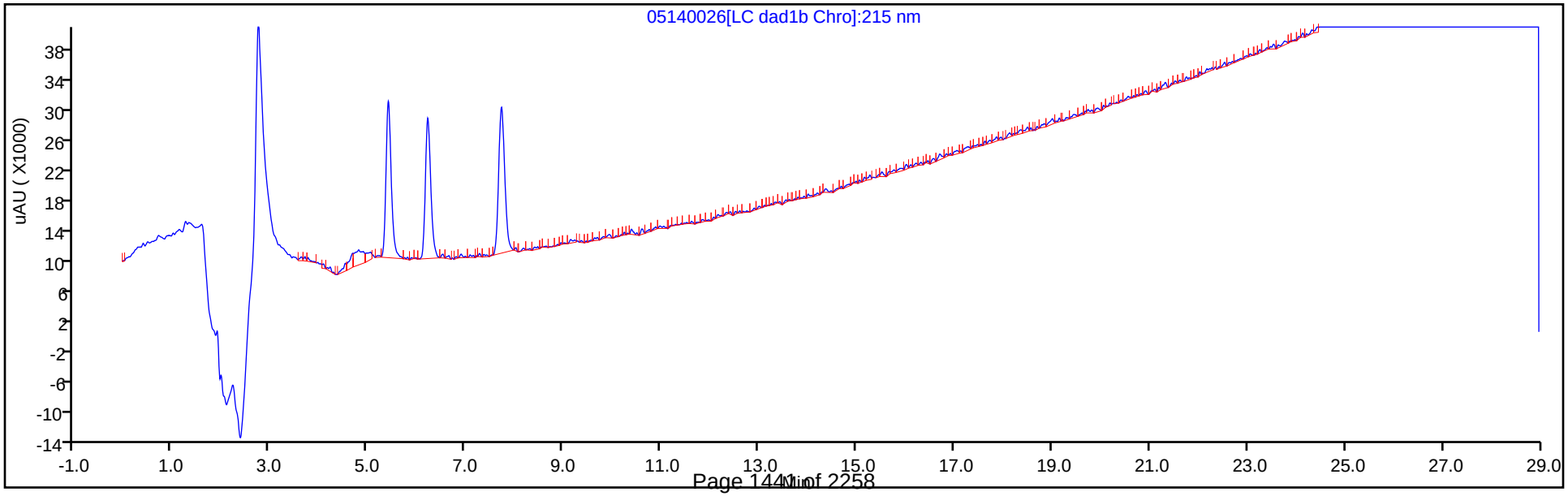
Data File: \\chromfs\denver\chromdata\g2_luna\20200514-91518.b\05140026.d

Injection Date:	15-May-2020 03:21:17	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	CB
Lims ID:	ICV DMT			Worklist Smp#:	26
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500326/7 Calibration Date: 06/26/2020 18:34

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 06260007.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin2		191320		240	250	-3.9	15.0
Picric acid	Ave	193810	185424		239	250	-4.3	15.0
RDX	Ave	244360	226860		232	250	-7.2	15.0
Nitrobenzene	Ave	439227	442845		253	251	0.8	15.0
1,3-Dinitrobenzene	Ave	674189	660435		245	251	-2.0	15.0
Nitroglycerin	Ave	126803	141388		2790	2500	11.5	15.0
2-Nitrotoluene	Ave	272965	258688		237	250	-5.2	15.0
4-Nitrotoluene	Ave	240881	240559		250	251	-0.1	15.0
4-Amino-2,6-dinitrotoluene	Ave	345235	316967		230	250	-8.2	15.0
3-Nitrotoluene	Ave	298327	299720		251	250	0.5	15.0
2-Amino-4,6-dinitrotoluene	Ave	465211	443048		239	251	-4.8	15.0
1,3,5-Trinitrobenzene	Ave	472451	464236		246	251	-1.7	15.0
2,6-Dinitrotoluene	Lin2		297908		243	251	-3.1	15.0
2,4-Dinitrotoluene	Ave	640113	604526		237	251	-5.6	15.0
Tetryl	Ave	368678	341824		232	251	-7.3	15.0
2,4,6-Trinitrotoluene	Lin1		387131		234	251	-6.7	15.0
PETN	Lin1		138349		2460	2500	-1.5	15.0
1,2-Dinitrobenzene	Lin1		294588		259	250	3.6	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500326/7 Calibration Date: 06/26/2020 18:34

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 06260007.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	7.15	7.00	7.30
Picric acid	8.38	8.23	8.53
RDX	9.37	9.22	9.52
Nitrobenzene	12.27	12.12	12.42
1,3-Dinitrobenzene	15.81	15.66	15.96
Nitroglycerin	16.04	15.89	16.19
2-Nitrotoluene	16.75	16.60	16.90
4-Nitrotoluene	17.03	16.88	17.18
4-Amino-2,6-dinitrotoluene	17.47	17.32	17.62
3-Nitrotoluene	17.97	17.82	18.12
2-Amino-4,6-dinitrotoluene	18.41	18.26	18.56
1,3,5-Trinitrobenzene	19.15	19.00	19.30
2,6-Dinitrotoluene	20.07	19.92	20.22
2,4-Dinitrotoluene	20.59	20.44	20.74
Tetryl	23.89	23.74	24.04
2,4,6-Trinitrotoluene	24.91	24.76	25.06
PETN	25.43	25.28	25.58
1,2-Dinitrobenzene	13.28	13.13	13.43

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260007.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 26-Jun-2020 18:34:39 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 280-0092796-007
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 15:27:54 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 26-Jun-2020 19:20:11

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.447	4.447	0.000	107063	0.2500	0.2494	
2 2,4-diamino-6-nitrotoluene	1	4.981	4.981	0.000	69540	0.2500	0.2692	
6 HMX	1	7.154	7.154	0.000	47830	0.2500	0.2401	
5 2,4,6-Trinitrophenol	1	8.381	8.381	0.000	46356	0.2500	0.2392	
8 RDX	1	9.367	9.367	0.000	56715	0.2500	0.2321	
9 Nitrobenzene	1	12.274	12.274	0.000	111154	0.2510	0.2531	
$ 10 1,2-Dinitrobenzene	1	13.281	13.281	0.000	73647	0.2500	0.2590	
11 3,5-Dinitroaniline	1	15.214	15.214	0.000	122000	0.2500	0.2458	M
12 1,3-Dinitrobenzene	1	15.814	15.814	0.000	165439	0.2505	0.2454	M
13 Nitroglycerin	2	16.041	16.041	0.000	353471	2.50	2.79	M
14 o-Nitrotoluene	1	16.754	16.754	0.000	64672	0.2500	0.2369	M
15 p-Nitrotoluene	1	17.034	17.034	0.000	60260	0.2505	0.2502	M
16 4-Amino-2,6-dinitrotoluene	1	17.474	17.474	0.000	79321	0.2503	0.2298	M
17 m-Nitrotoluene	1	17.967	17.967	0.000	75005	0.2503	0.2514	M
18 2-Amino-4,6-dinitrotoluene	1	18.407	18.407	0.000	111205	0.2510	0.2390	M
19 1,3,5-Trinitrobenzene	1	19.147	19.147	0.000	116291	0.2505	0.2461	M
20 2,6-Dinitrotoluene	1	20.074	20.074	0.000	74775	0.2510	0.2432	M
21 2,4-Dinitrotoluene	1	20.587	20.587	0.000	151736	0.2510	0.2370	M
22 Tetryl	1	23.887	23.887	0.000	85627	0.2505	0.2323	
23 2,4,6-Trinitrotoluene	1	24.907	24.907	0.000	97170	0.2510	0.2341	
24 PETN	2	25.434	25.434	0.000	345873	2.50	2.46	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00064	Amount Added:	25.00	Units: uL
8330_ADDs_00027	Amount Added:	12.50	Units: uL

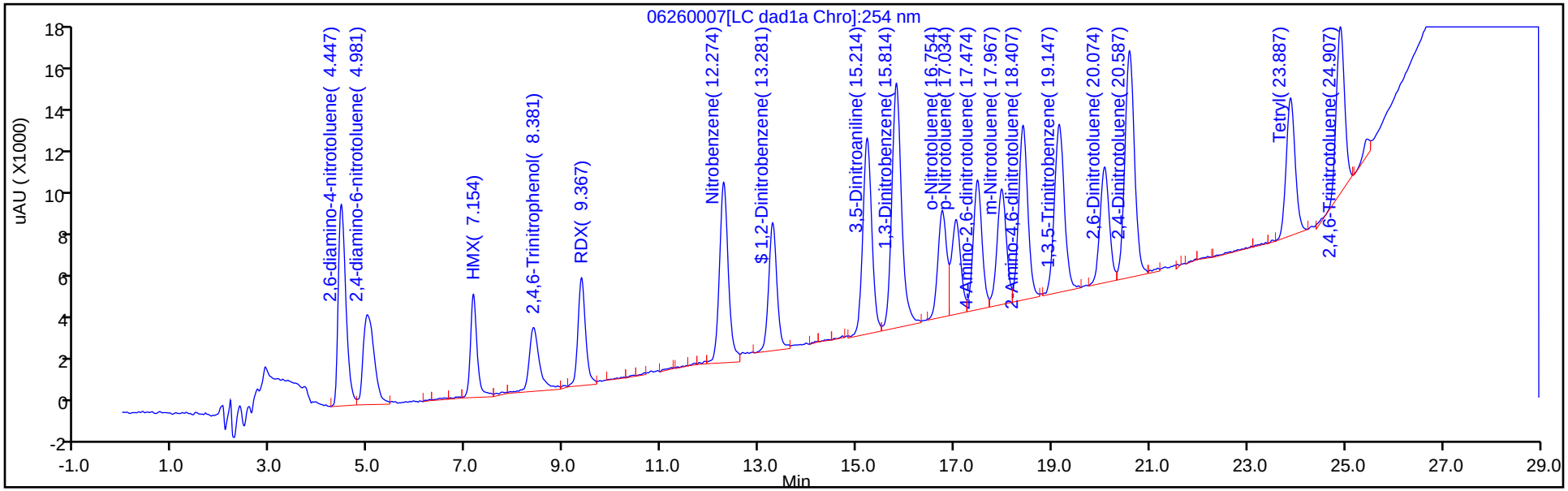
Report Date: 27-Jun-2020 15:27:54 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

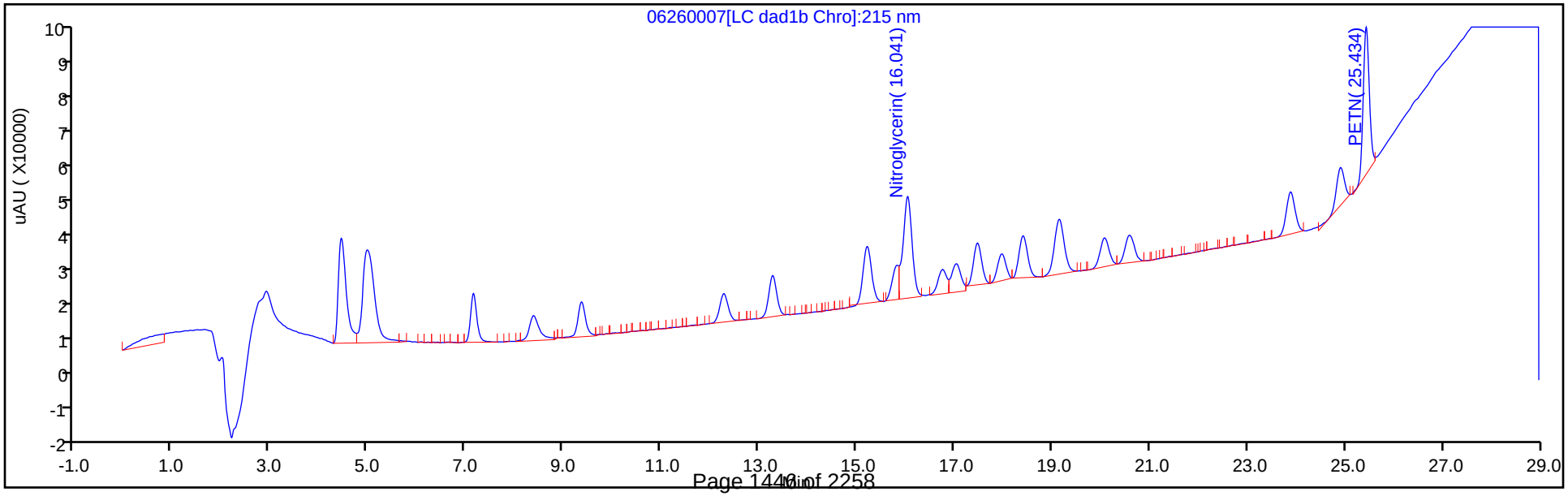
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260007.d

Injection Date:	26-Jun-2020 18:34:39	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

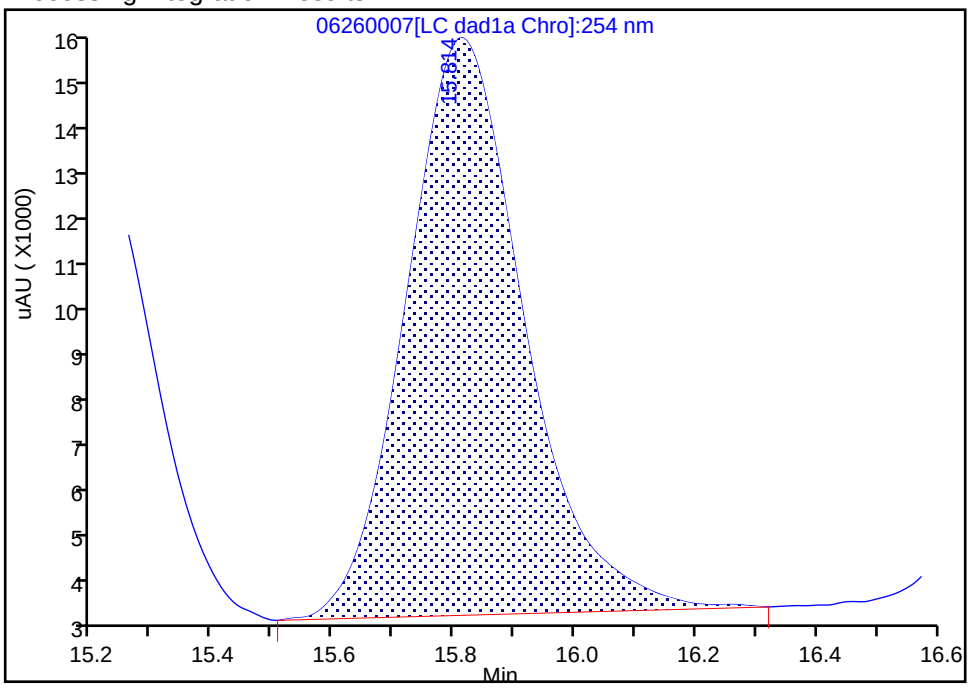
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260007.d				
Injection Date:	26-Jun-2020 18:34:39	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

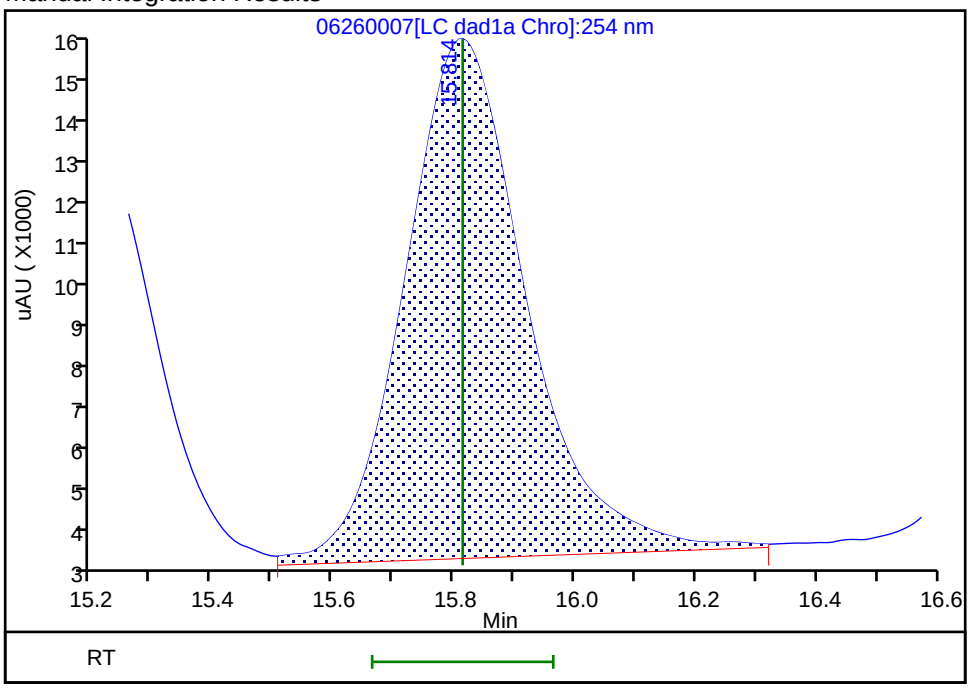
Processing Integration Results

RT: 15.81
Area: 158680
Amount: 0.235364
Amount Units: ug/ml



Manual Integration Results

RT: 15.81
Area: 165439
Amount: 0.245390
Amount Units: ug/ml



Reviewer: zhangji, 26-Jun-2020 19:16:50

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

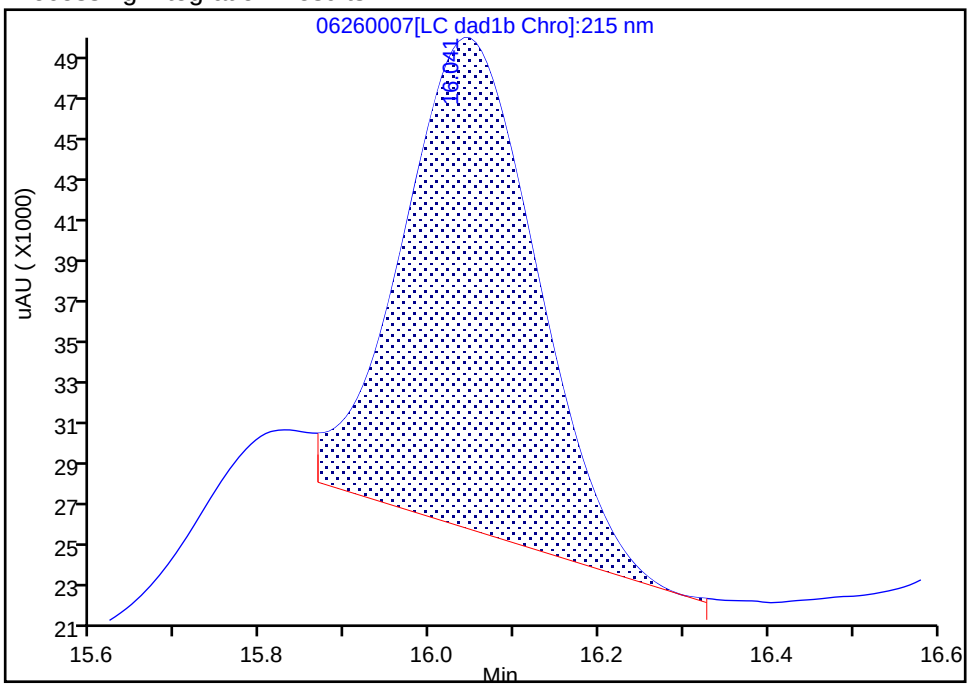
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260007.d
Injection Date: 26-Jun-2020 18:34:39 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Detector LC DAD1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

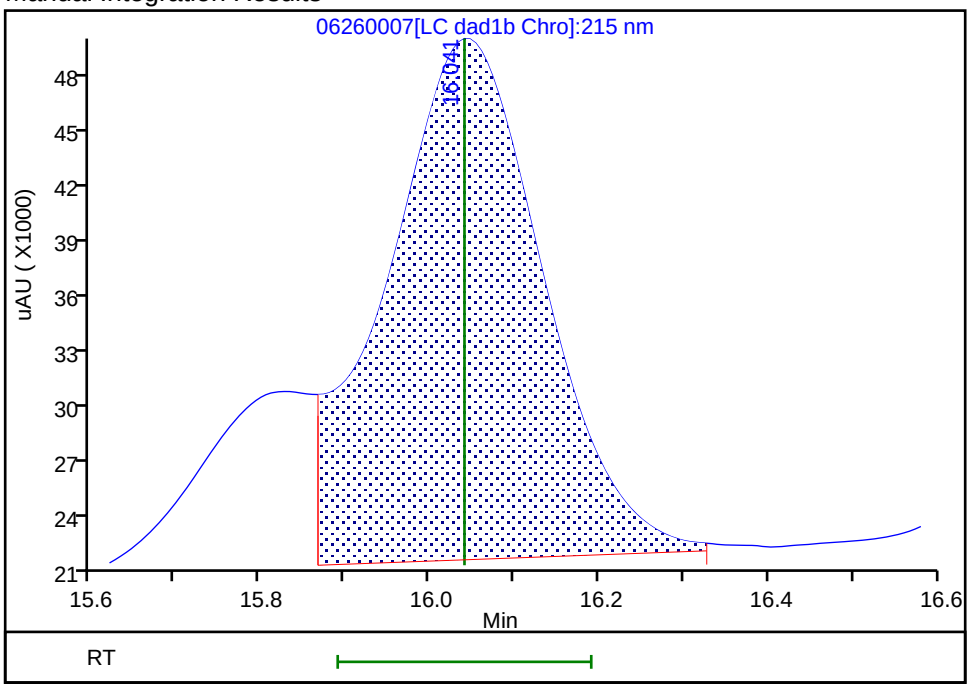
Processing Integration Results

RT: 16.04
Area: 258624
Amount: 2.039568
Amount Units: ug/ml



Manual Integration Results

RT: 16.04
Area: 353471
Amount: 2.787553
Amount Units: ug/ml



Reviewer: zhangji, 26-Jun-2020 19:17:01
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

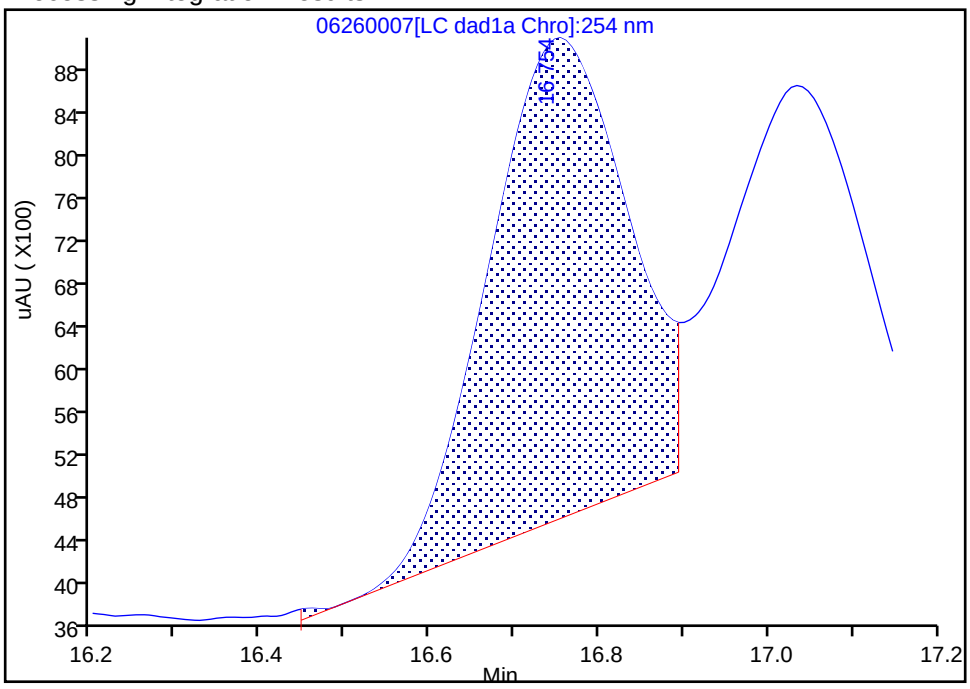
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260007.d				
Injection Date:	26-Jun-2020 18:34:39	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

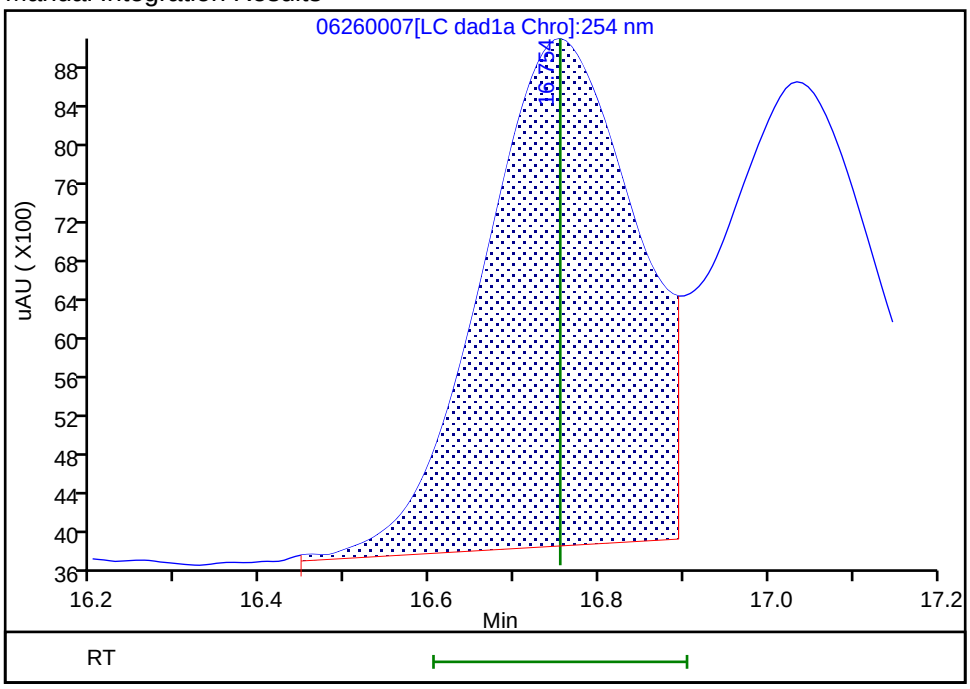
Processing Integration Results

RT: 16.75
Area: 50561
Amount: 0.185229
Amount Units: ug/ml



Manual Integration Results

RT: 16.75
Area: 64672
Amount: 0.236925
Amount Units: ug/ml



Reviewer: zhangji, 26-Jun-2020 19:16:52
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

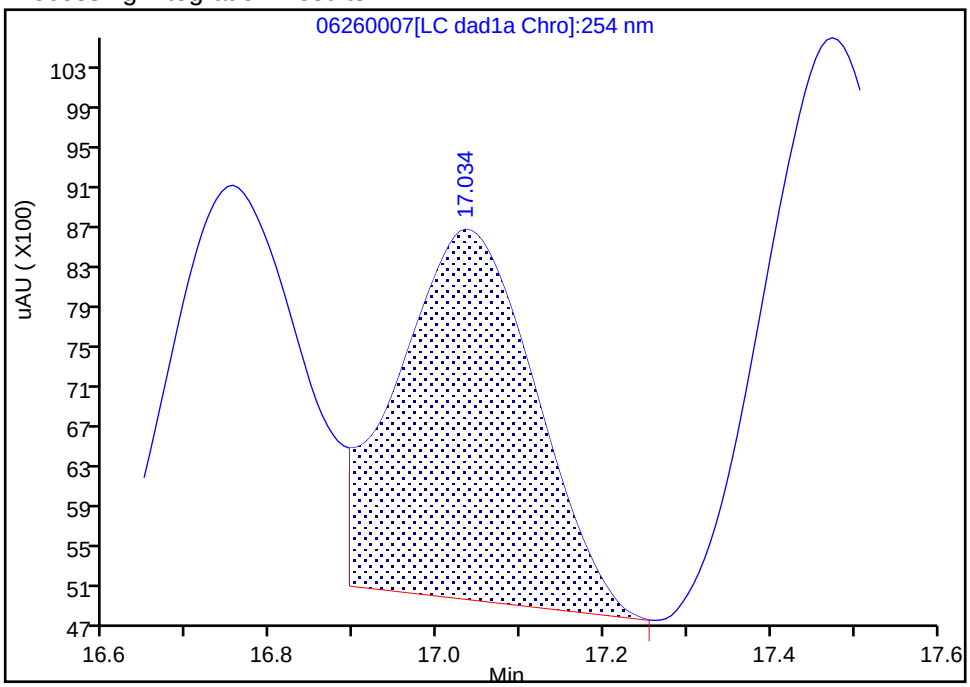
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260007.d
Injection Date: 26-Jun-2020 18:34:39 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

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

Signal: 1

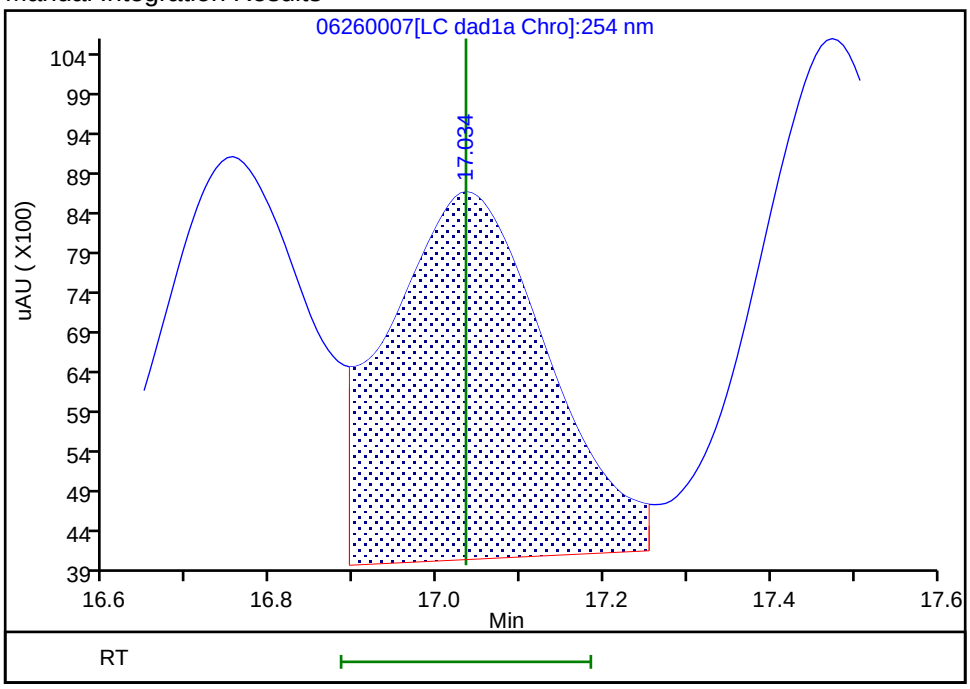
Processing Integration Results

RT: 17.03
Area: 42235
Amount: 0.175335
Amount Units: ug/ml



Manual Integration Results

RT: 17.03
Area: 60260
Amount: 0.250165
Amount Units: ug/ml



Reviewer: zhangji, 26-Jun-2020 19:16:52
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

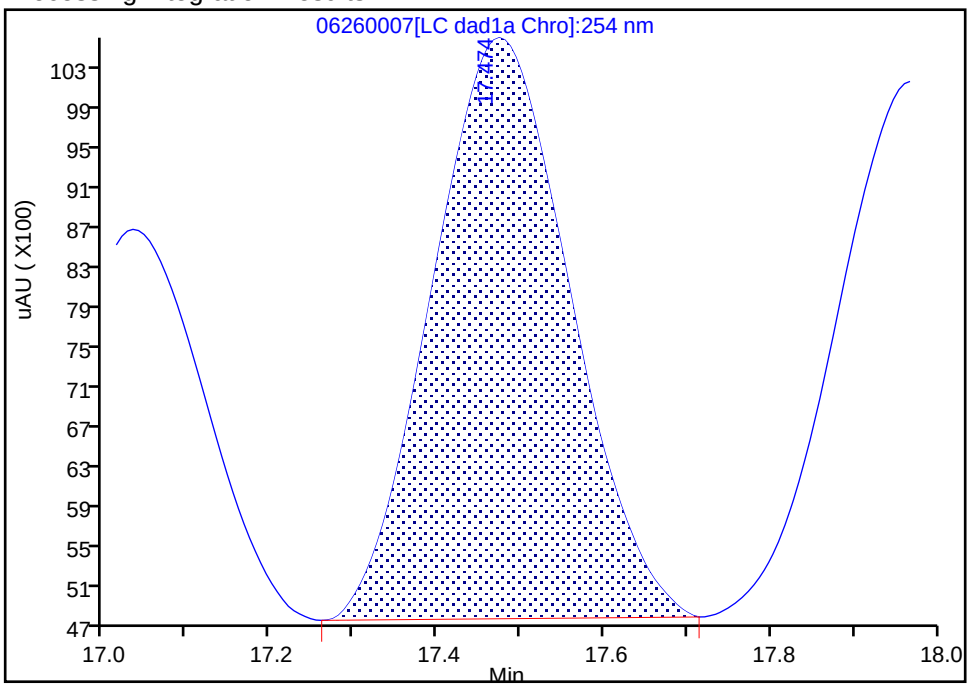
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260007.d				
Injection Date:	26-Jun-2020 18:34:39	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

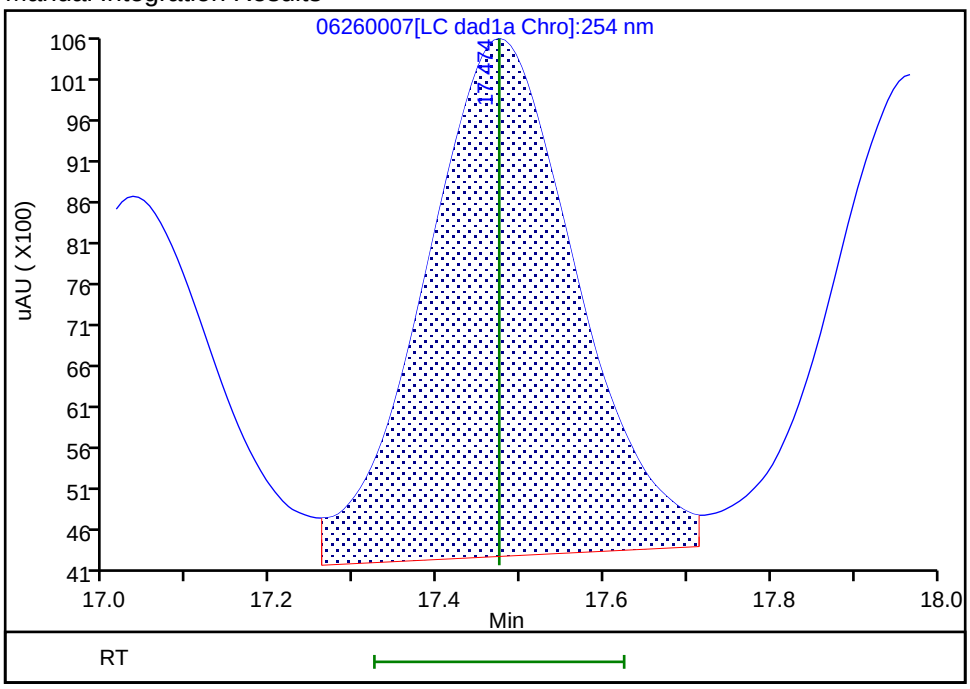
Processing Integration Results

RT: 17.47
Area: 66428
Amount: 0.192414
Amount Units: ug/ml



Manual Integration Results

RT: 17.47
Area: 79321
Amount: 0.229760
Amount Units: ug/ml



Reviewer: zhangji, 26-Jun-2020 19:16:52

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

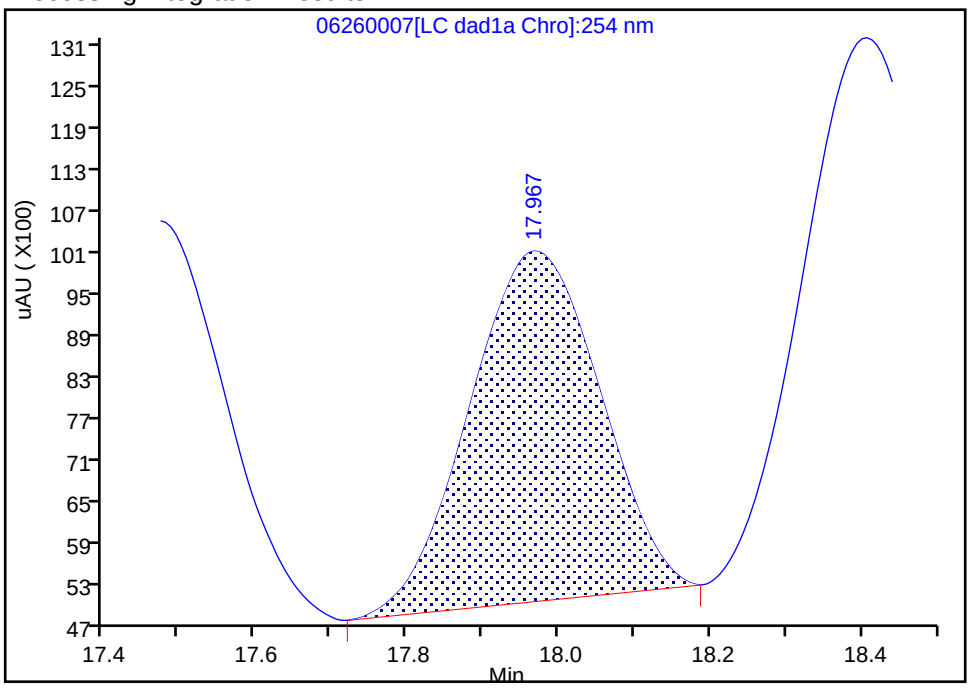
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260007.d				
Injection Date:	26-Jun-2020 18:34:39	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

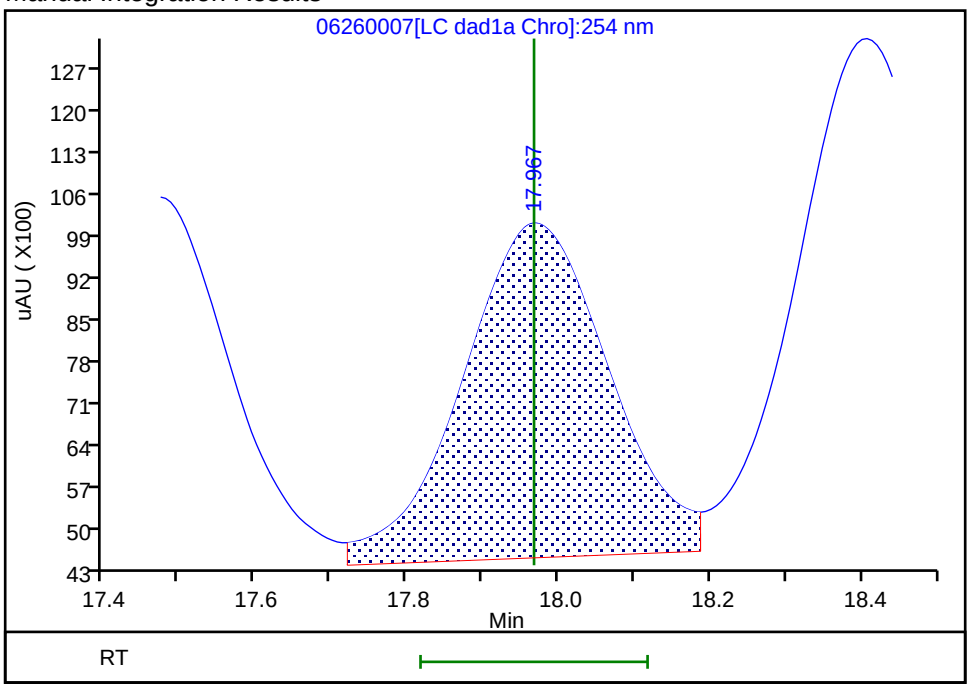
Processing Integration Results

RT: 17.97
Area: 60627
Amount: 0.203223
Amount Units: ug/ml



Manual Integration Results

RT: 17.97
Area: 75005
Amount: 0.251419
Amount Units: ug/ml



Reviewer: zhangji, 26-Jun-2020 19:16:52

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

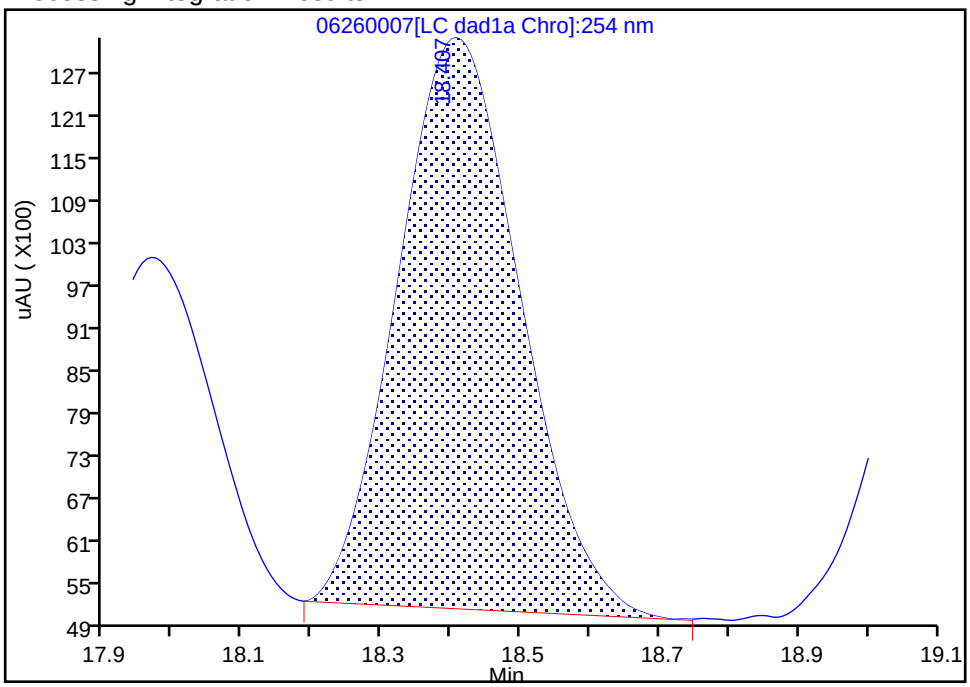
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260007.d				
Injection Date:	26-Jun-2020 18:34:39	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

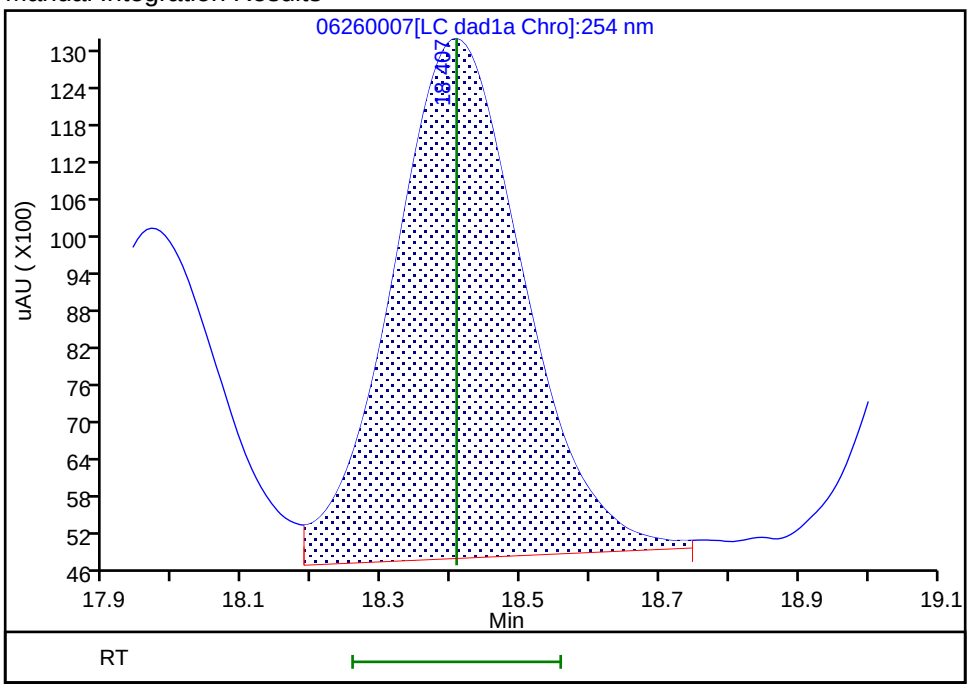
Processing Integration Results

RT: 18.41
Area: 98504
Amount: 0.211740
Amount Units: ug/ml



Manual Integration Results

RT: 18.41
Area: 111205
Amount: 0.239042
Amount Units: ug/ml



Reviewer: zhangji, 26-Jun-2020 19:16:52

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

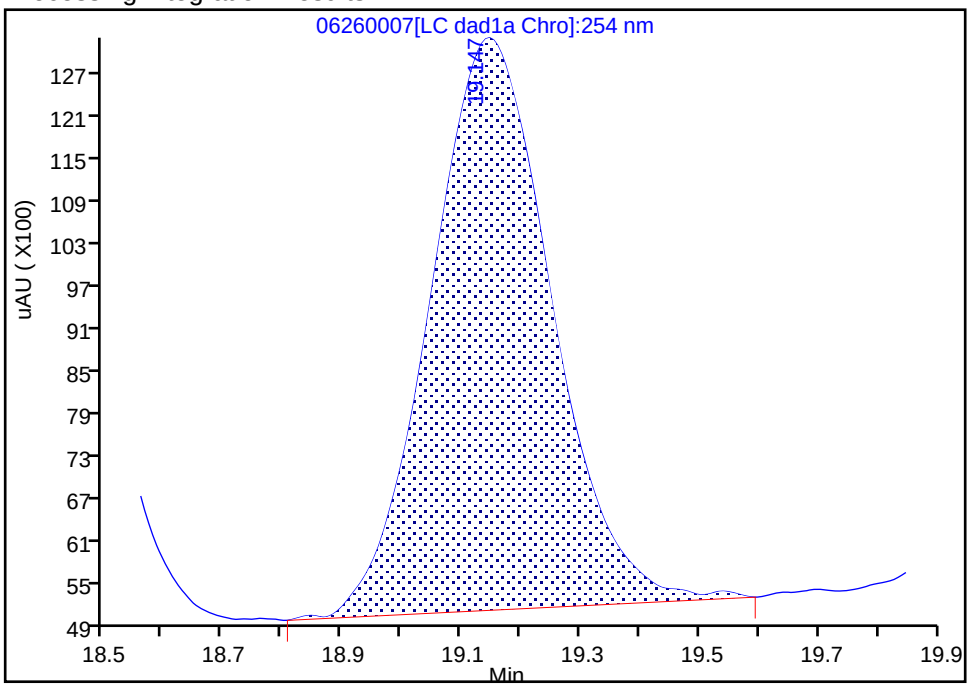
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260007.d
Injection Date: 26-Jun-2020 18:34:39 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

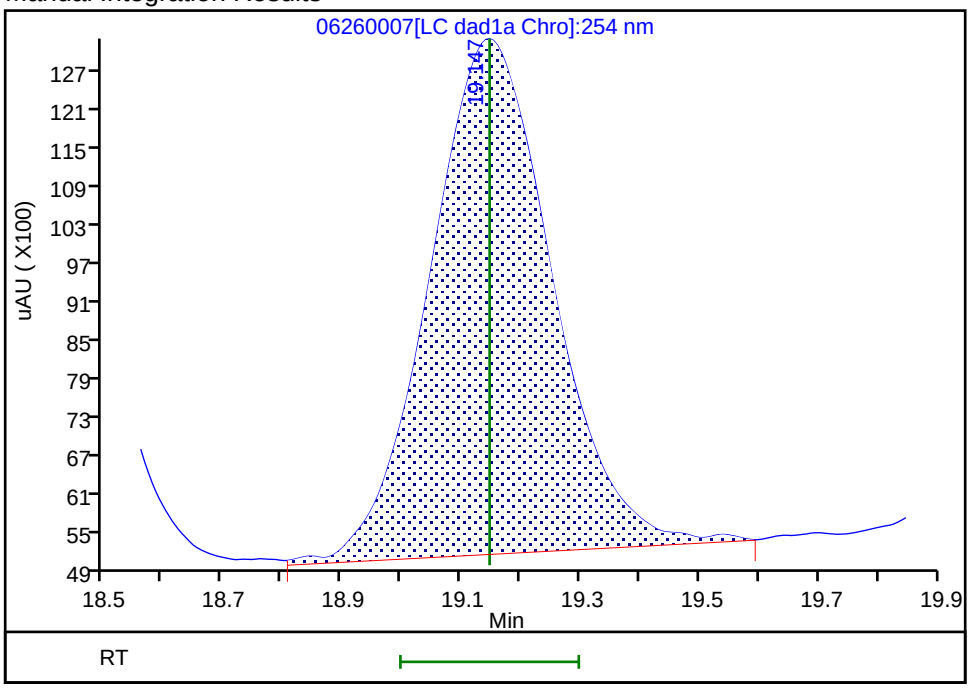
Processing Integration Results

RT: 19.15
Area: 114356
Amount: 0.242049
Amount Units: ug/ml



Manual Integration Results

RT: 19.15
Area: 116291
Amount: 0.246144
Amount Units: ug/ml



Reviewer: zhangji, 26-Jun-2020 19:16:52
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

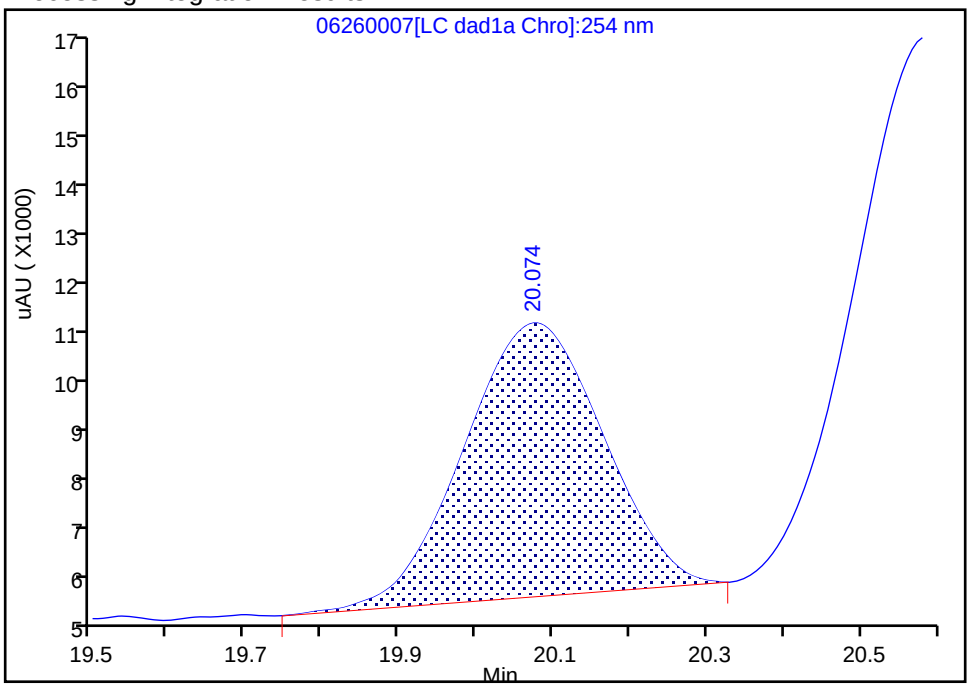
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260007.d				
Injection Date:	26-Jun-2020 18:34:39	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

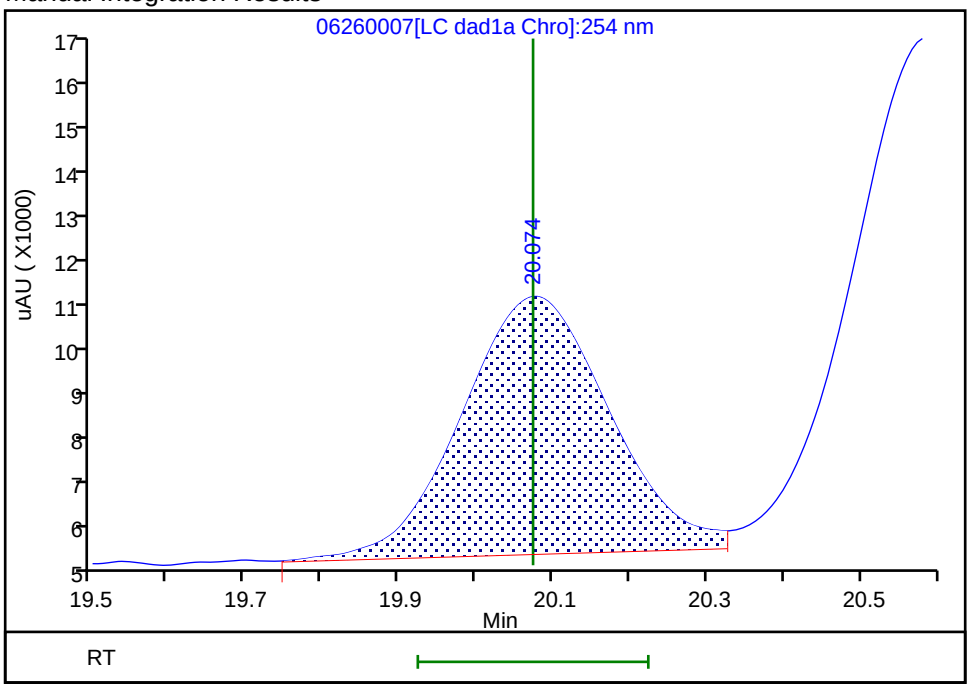
Processing Integration Results

RT: 20.07
Area: 67693
Amount: 0.218717
Amount Units: ug/ml



Manual Integration Results

RT: 20.07
Area: 74775
Amount: 0.243204
Amount Units: ug/ml



Reviewer: zhangji, 26-Jun-2020 19:16:52
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

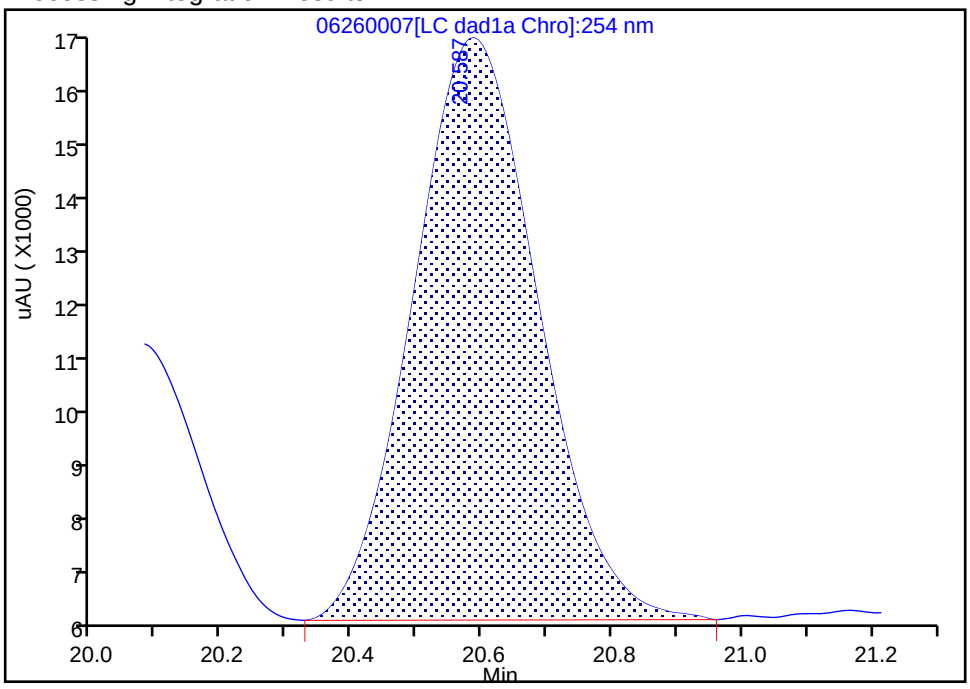
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260007.d				
Injection Date:	26-Jun-2020 18:34:39	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

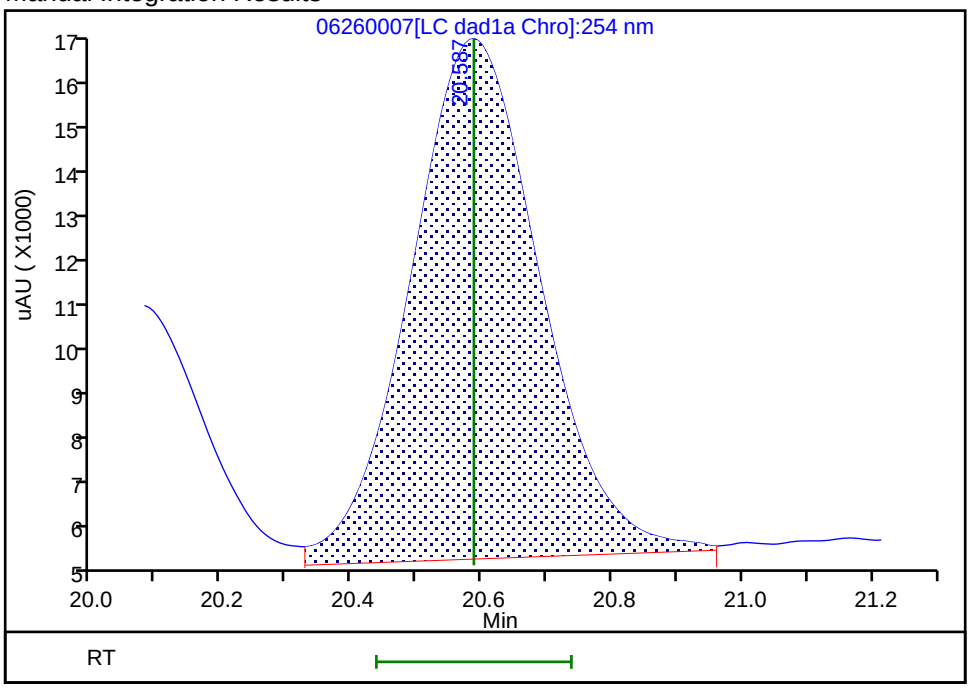
Processing Integration Results

RT: 20.59
Area: 142692
Amount: 0.222917
Amount Units: ug/ml



Manual Integration Results

RT: 20.59
Area: 151736
Amount: 0.237046
Amount Units: ug/ml



Reviewer: zhangji, 26-Jun-2020 19:16:52

Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500326/8 Calibration Date: 06/26/2020 19:09

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 06260008.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	435816	417622		240	250	-4.2	15.0
DNX	Ave	321206	305702		238	250	-4.8	15.0
MNX	Lin2		282715		289	292	-1.0	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500326/8 Calibration Date: 06/26/2020 19:09

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 06260008.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.53	5.38	5.68
DNX	6.37	6.22	6.52
MNX	7.92	7.77	8.07

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260008.D
Lims ID: CCV DMT
Client ID:
Sample Type: CCV
Inject. Date: 26-Jun-2020 19:09:41 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV DMT
Misc. Info.: 280-0092796-008
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub13

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 15:27:55 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 26-Jun-2020 20:34:04

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.525	5.525	0.000	104510	0.2503	0.2398	
4 DNX	1	6.365	6.365	0.000	76502	0.2503	0.2382	
7 MNX	1	7.919	7.919	0.000	82482	0.2918	0.2888	

Reagents:

8330 DMT_00006 Amount Added: 12.50 Units: uL

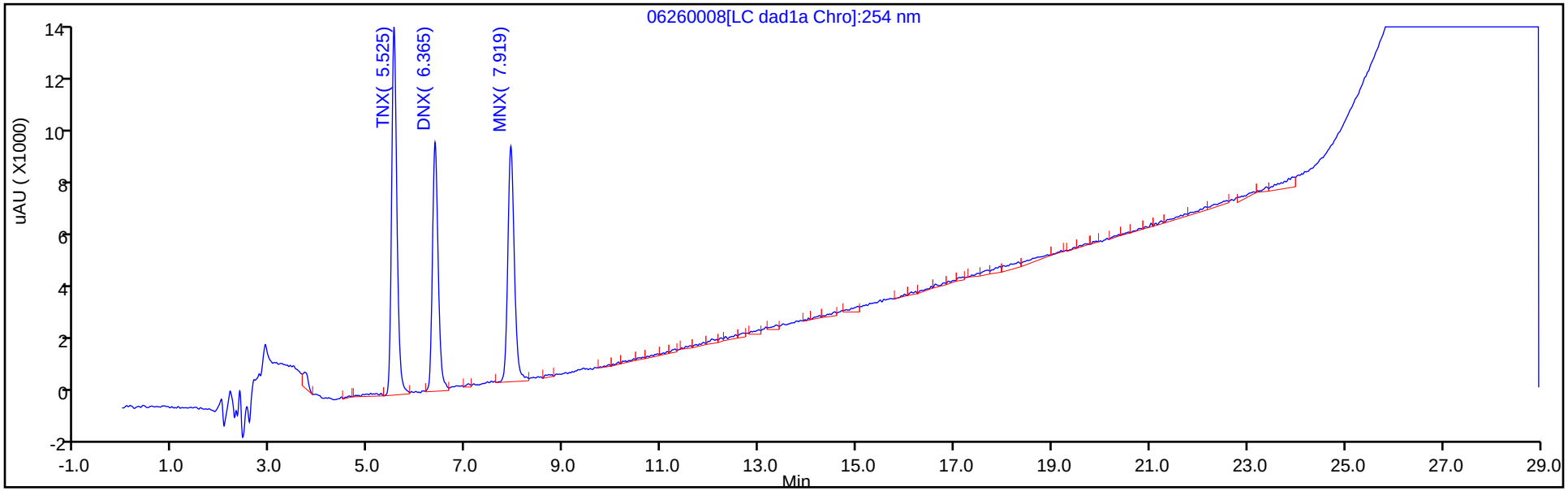
Report Date: 27-Jun-2020 15:27:55 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

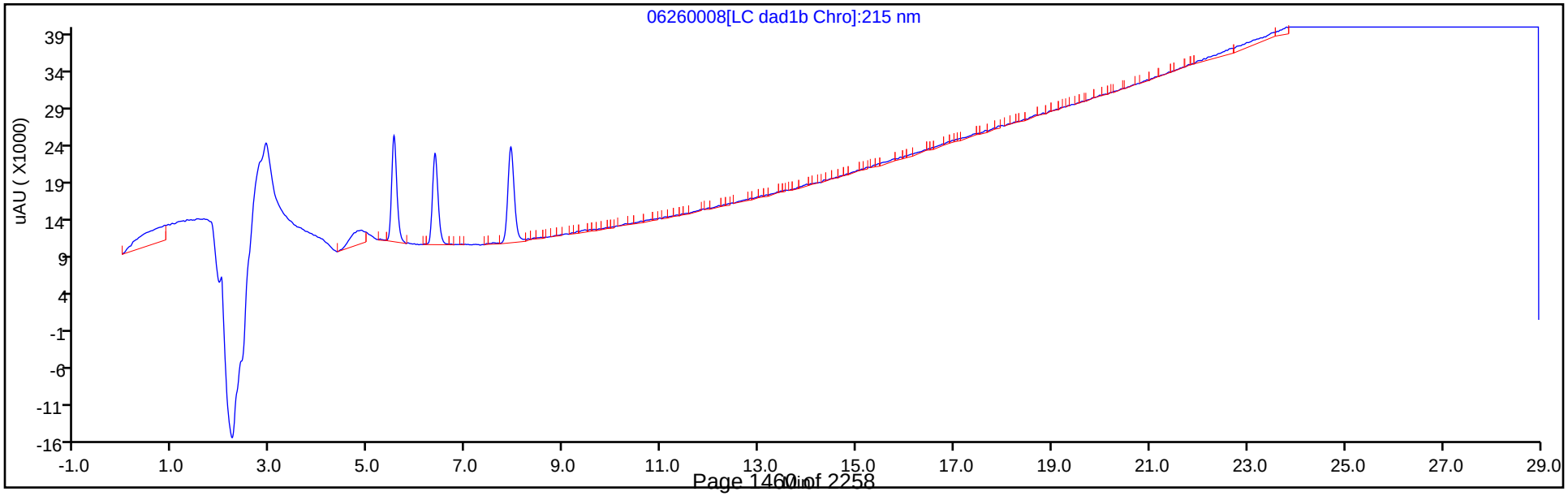
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260008.d

Injection Date:	26-Jun-2020 19:09:41	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	8
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500326/19 Calibration Date: 06/27/2020 01:34

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 06260019.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin2		190176		239	250	-4.6	15.0
Picric acid	Ave	193810	173348		224	250	-10.6	15.0
RDX	Ave	244360	226316		232	250	-7.4	15.0
Nitrobenzene	Ave	439227	428319		245	251	-2.5	15.0
1,3-Dinitrobenzene	Ave	674189	644583		239	251	-4.4	15.0
Nitroglycerin	Ave	126803	145730		2870	2500	14.9	15.0
2-Nitrotoluene	Ave	272965	258764		237	250	-5.2	15.0
4-Nitrotoluene	Ave	240881	238148		248	251	-1.1	15.0
4-Amino-2,6-dinitrotoluene	Ave	345235	319125		231	250	-7.6	15.0
3-Nitrotoluene	Ave	298327	293810		246	250	-1.5	15.0
2-Amino-4,6-dinitrotoluene	Ave	465211	440725		238	251	-5.3	15.0
1,3,5-Trinitrobenzene	Ave	472451	461741		245	251	-2.3	15.0
2,6-Dinitrotoluene	Lin2		293522		239	251	-4.6	15.0
2,4-Dinitrotoluene	Ave	640113	598669		235	251	-6.5	15.0
Tetryl	Ave	368678	342850		233	251	-7.0	15.0
2,4,6-Trinitrotoluene	Lin1		384857		233	251	-7.3	15.0
PETN	Lin1		140116		2500	2500	-0.0	15.0
1,2-Dinitrobenzene	Lin1		303924		267	250	7.0	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500326/19 Calibration Date: 06/27/2020 01:34

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 06260019.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	7.13	7.00	7.30
Picric acid	8.30	8.23	8.53
RDX	9.34	9.22	9.52
Nitrobenzene	12.25	12.12	12.42
1,3-Dinitrobenzene	15.77	15.66	15.96
Nitroglycerin	15.99	15.89	16.19
2-Nitrotoluene	16.71	16.60	16.90
4-Nitrotoluene	16.99	16.88	17.18
4-Amino-2,6-dinitrotoluene	17.43	17.32	17.62
3-Nitrotoluene	17.92	17.82	18.12
2-Amino-4,6-dinitrotoluene	18.36	18.26	18.56
1,3,5-Trinitrobenzene	19.10	19.00	19.30
2,6-Dinitrotoluene	20.02	19.92	20.22
2,4-Dinitrotoluene	20.53	20.44	20.74
Tetryl	23.83	23.74	24.04
2,4,6-Trinitrotoluene	24.86	24.76	25.06
PETN	25.39	25.28	25.58
1,2-Dinitrobenzene	13.25	13.13	13.43

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260019.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 27-Jun-2020 01:34:35 ALS Bottle#: 7 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 280-0092796-019
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 15:28:00 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 27-Jun-2020 11:58:39

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 2,6-diamino-4-nitrotoluene	1	4.434	4.447	-0.013	106188	0.2500	0.2473	
	2 2,4-diamino-6-nitrotoluene	1	4.960	4.981	-0.021	66428	0.2500	0.2561	
	6 HMX	1	7.127	7.154	-0.027	47544	0.2500	0.2385	
	5 2,4,6-Trinitrophenol	1	8.300	8.381	-0.081	43337	0.2500	0.2236	
	8 RDX	1	9.340	9.367	-0.027	56579	0.2500	0.2315	
	9 Nitrobenzene	1	12.247	12.274	-0.027	107508	0.2510	0.2448	
$	10 1,2-Dinitrobenzene	1	13.247	13.281	-0.034	75981	0.2500	0.2674	
	11 3,5-Dinitroaniline	1	15.174	15.214	-0.040	119467	0.2500	0.2406	M
	12 1,3-Dinitrobenzene	1	15.774	15.814	-0.040	161468	0.2505	0.2395	M
	13 Nitroglycerin	2	15.994	16.041	-0.047	364324	2.50	2.87	M
	14 o-Nitrotoluene	1	16.707	16.754	-0.047	64691	0.2500	0.2370	M
	15 p-Nitrotoluene	1	16.994	17.034	-0.040	59656	0.2505	0.2477	M
	16 4-Amino-2,6-dinitrotoluene	1	17.427	17.474	-0.047	79861	0.2503	0.2313	M
	17 m-Nitrotoluene	1	17.920	17.967	-0.047	73526	0.2503	0.2465	M
	18 2-Amino-4,6-dinitrotoluene	1	18.360	18.407	-0.047	110622	0.2510	0.2378	M
	19 1,3,5-Trinitrobenzene	1	19.100	19.147	-0.047	115666	0.2505	0.2448	M
	20 2,6-Dinitrotoluene	1	20.020	20.074	-0.054	73674	0.2510	0.2394	M
	21 2,4-Dinitrotoluene	1	20.534	20.587	-0.053	150266	0.2510	0.2347	M
	22 Tetryl	1	23.834	23.887	-0.053	85884	0.2505	0.2330	
	23 2,4,6-Trinitrotoluene	1	24.860	24.907	-0.047	96599	0.2510	0.2327	
	24 PETN	2	25.394	25.434	-0.040	350290	2.50	2.50	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00064	Amount Added:	25.00	Units: uL
8330_ADDs_00027	Amount Added:	12.50	Units: uL

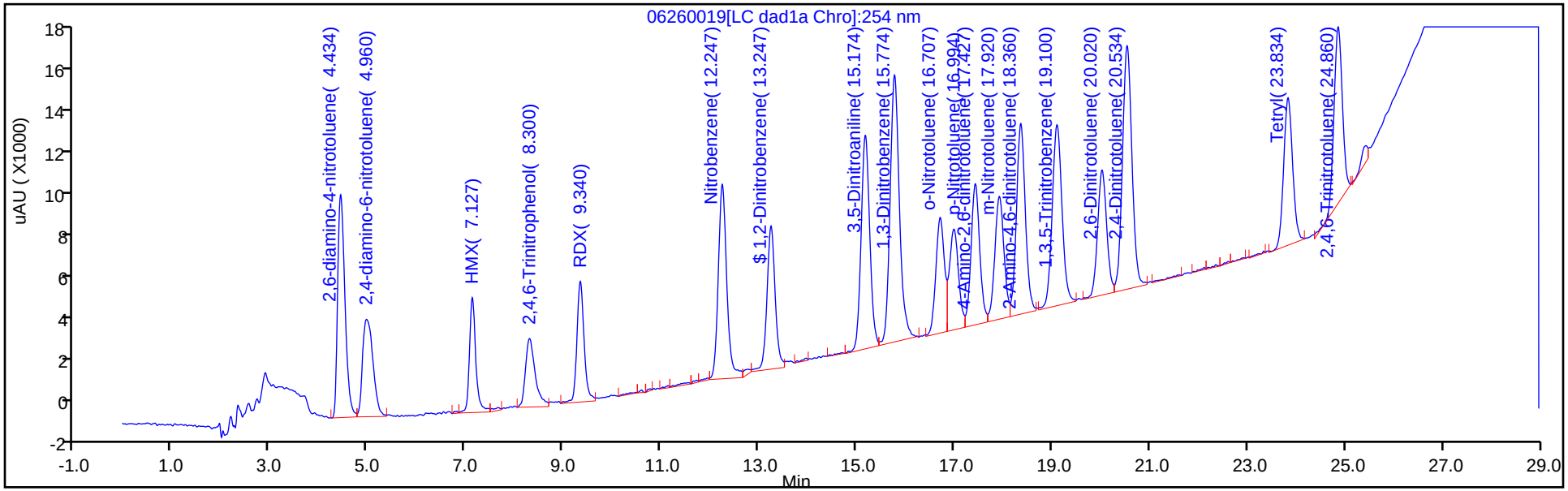
Report Date: 27-Jun-2020 15:28:00 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

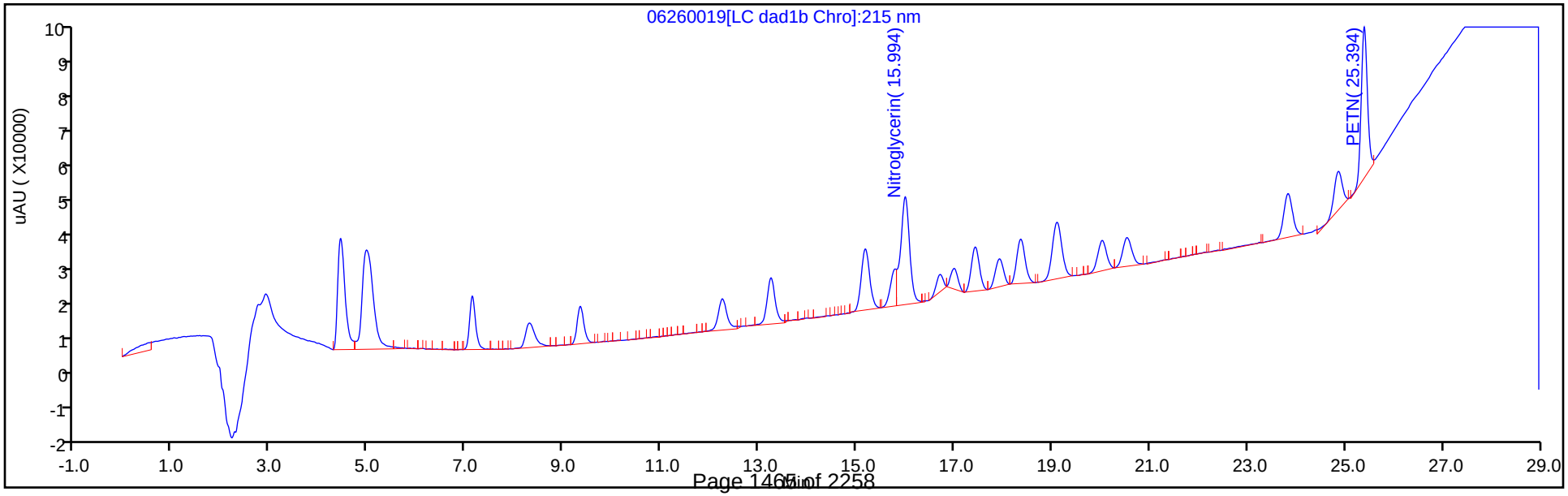
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260019.d

Injection Date:	27-Jun-2020 01:34:35	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV			Worklist Smp#:	19
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

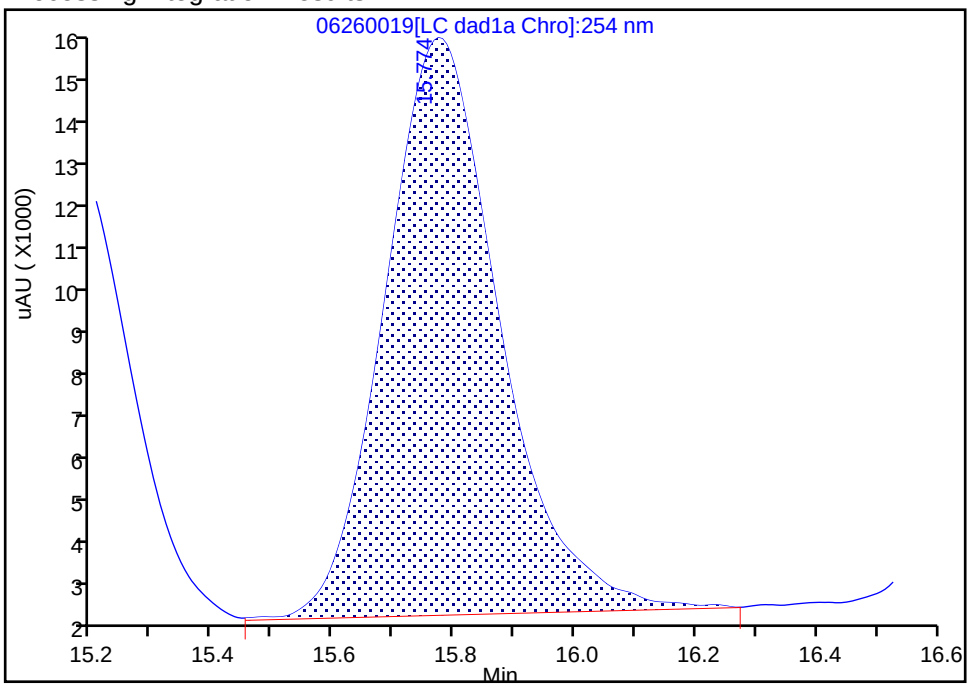
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260019.d				
Injection Date:	27-Jun-2020 01:34:35	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

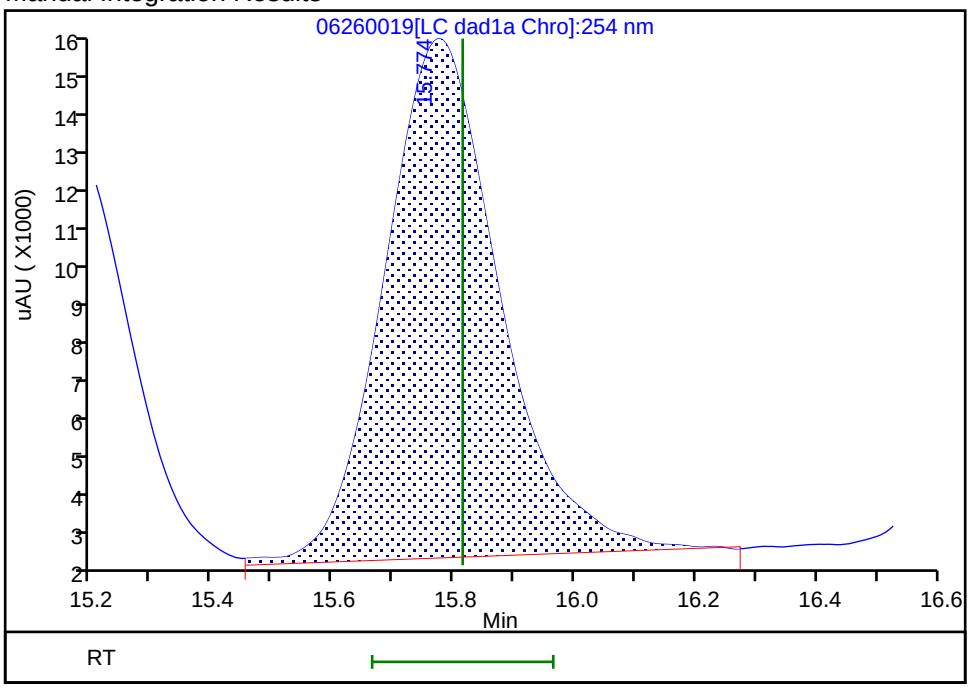
Processing Integration Results

RT: 15.77
Area: 159992
Amount: 0.237310
Amount Units: ug/ml



Manual Integration Results

RT: 15.77
Area: 161468
Amount: 0.239500
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:58:34
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

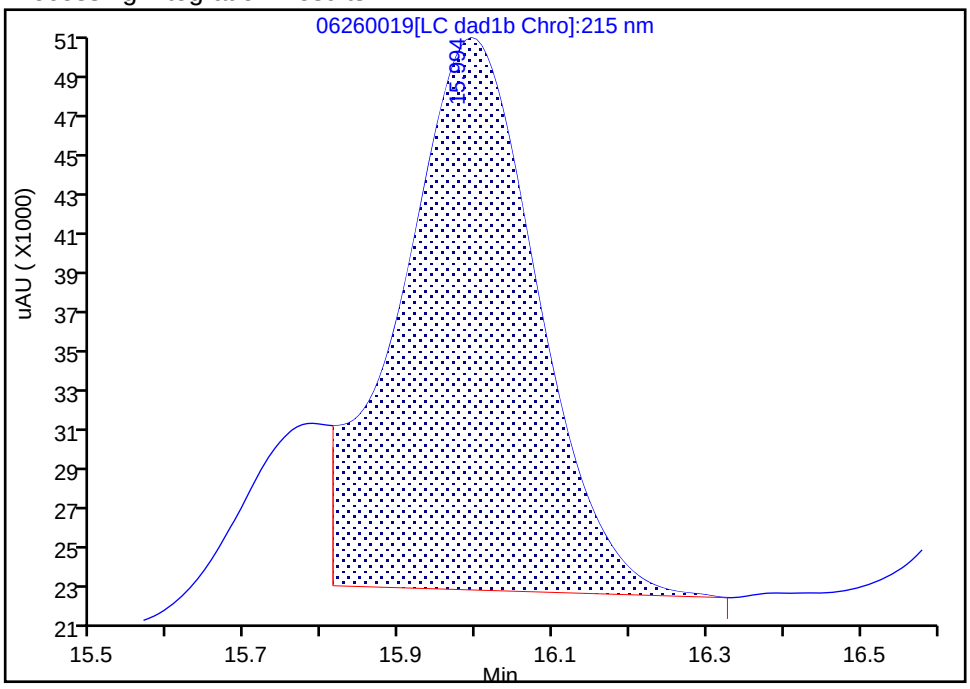
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260019.d
Injection Date: 27-Jun-2020 01:34:35 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Detector LC DAD1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

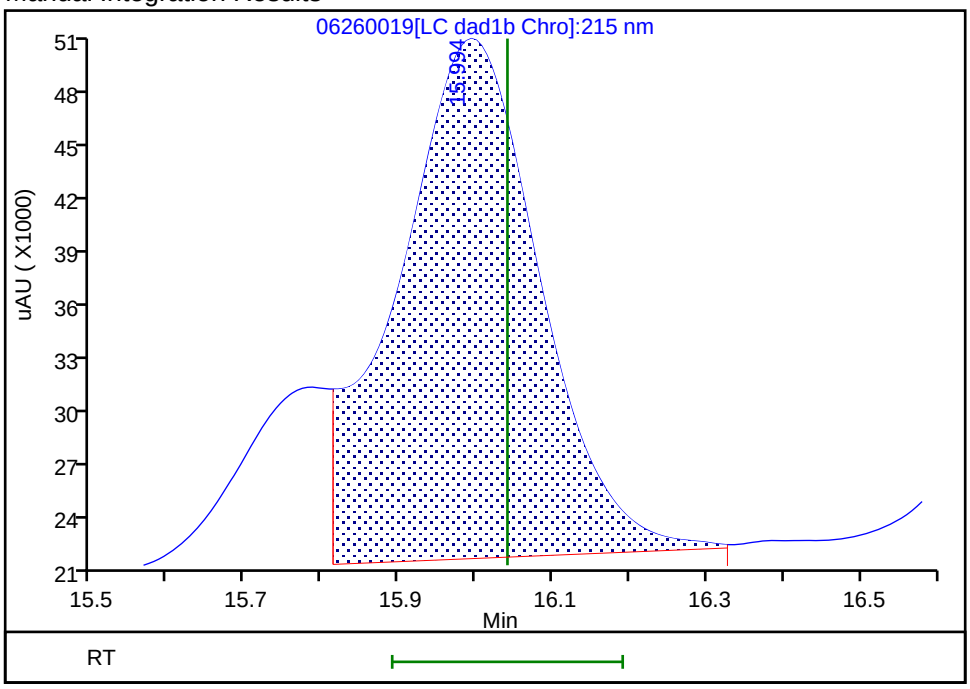
Processing Integration Results

RT: 15.99
Area: 336096
Amount: 2.650530
Amount Units: ug/ml



Manual Integration Results

RT: 15.99
Area: 364324
Amount: 2.873142
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:58:38
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

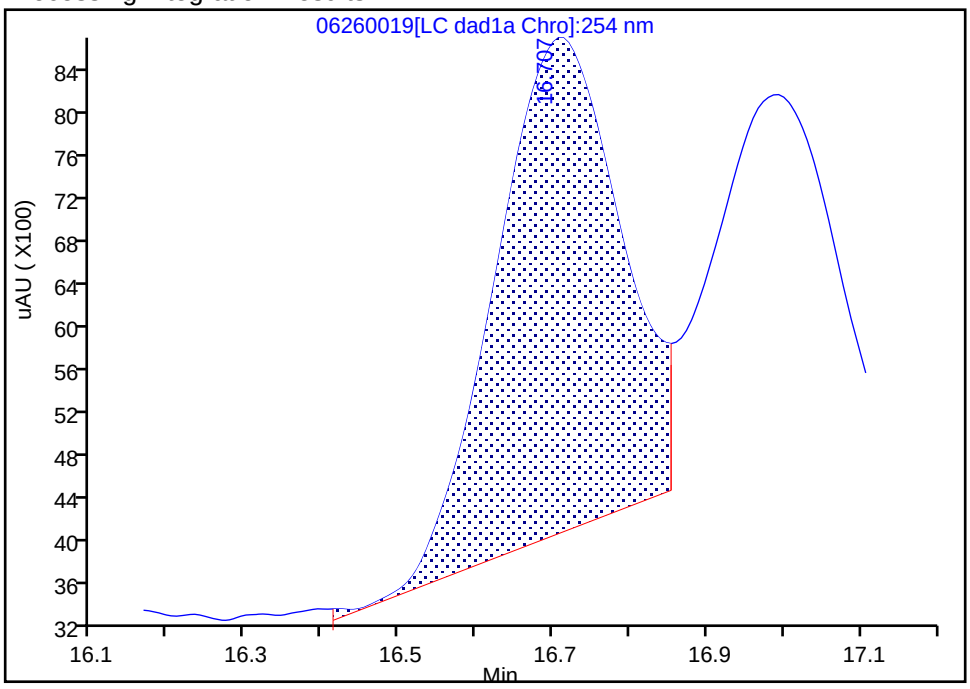
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260019.d				
Injection Date:	27-Jun-2020 01:34:35	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

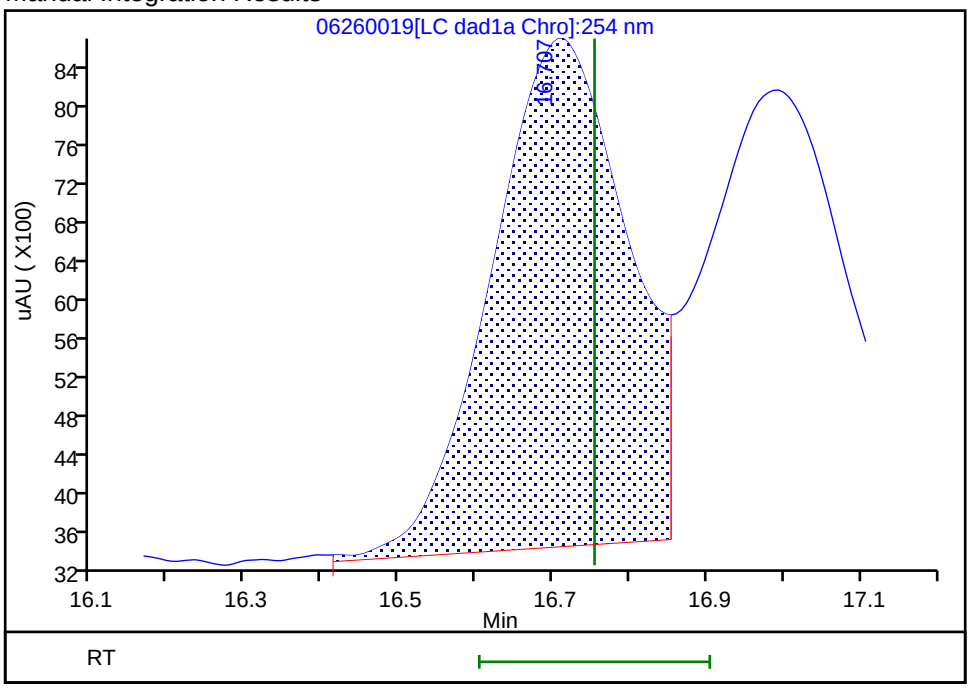
Processing Integration Results

RT: 16.71
Area: 52639
Amount: 0.192842
Amount Units: ug/ml



Manual Integration Results

RT: 16.71
Area: 64691
Amount: 0.236994
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:58:29

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

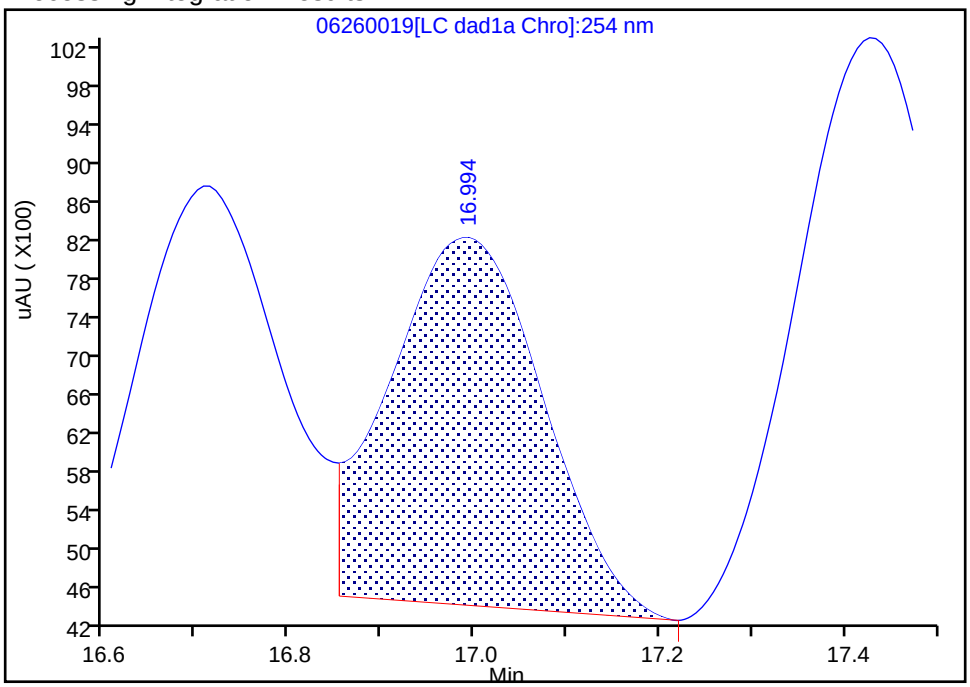
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260019.d				
Injection Date:	27-Jun-2020 01:34:35	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

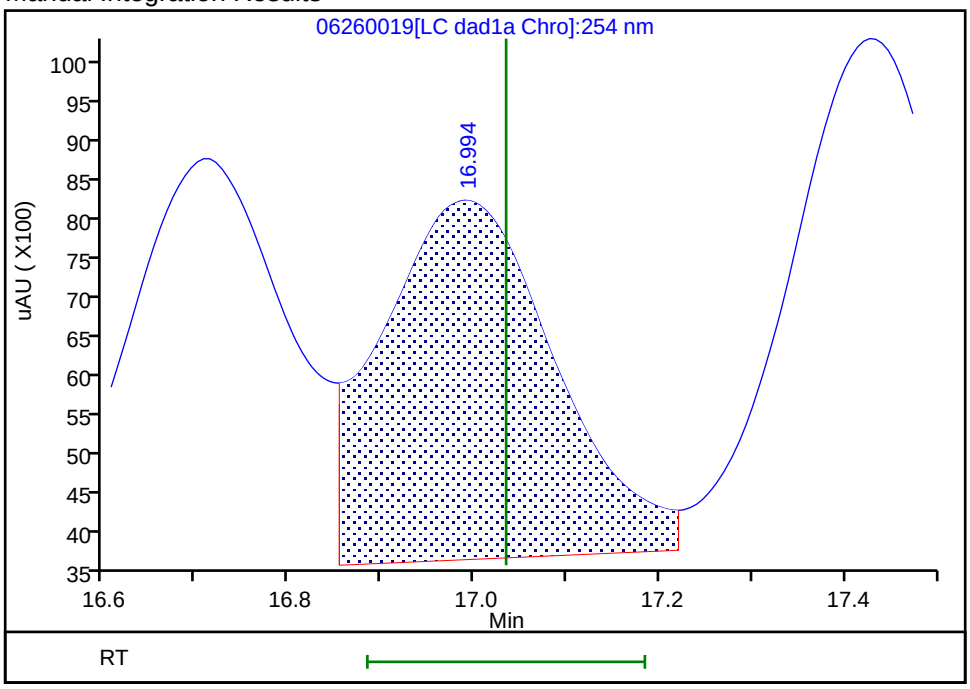
Processing Integration Results

RT: 16.99
Area: 43618
Amount: 0.181077
Amount Units: ug/ml



Manual Integration Results

RT: 16.99
Area: 59656
Amount: 0.247657
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:58:29

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

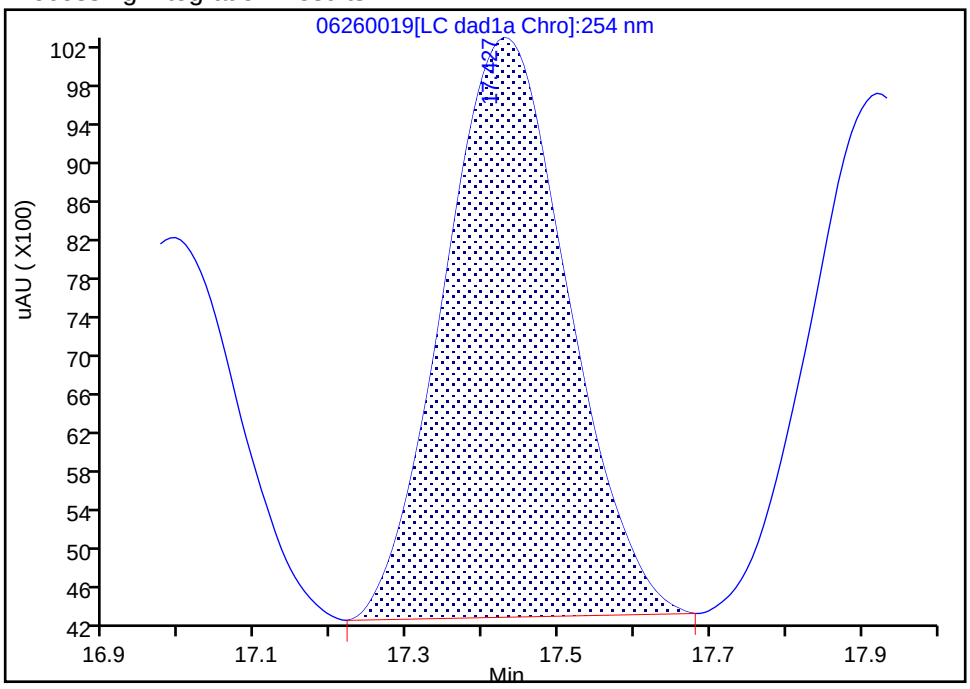
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260019.d				
Injection Date:	27-Jun-2020 01:34:35	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

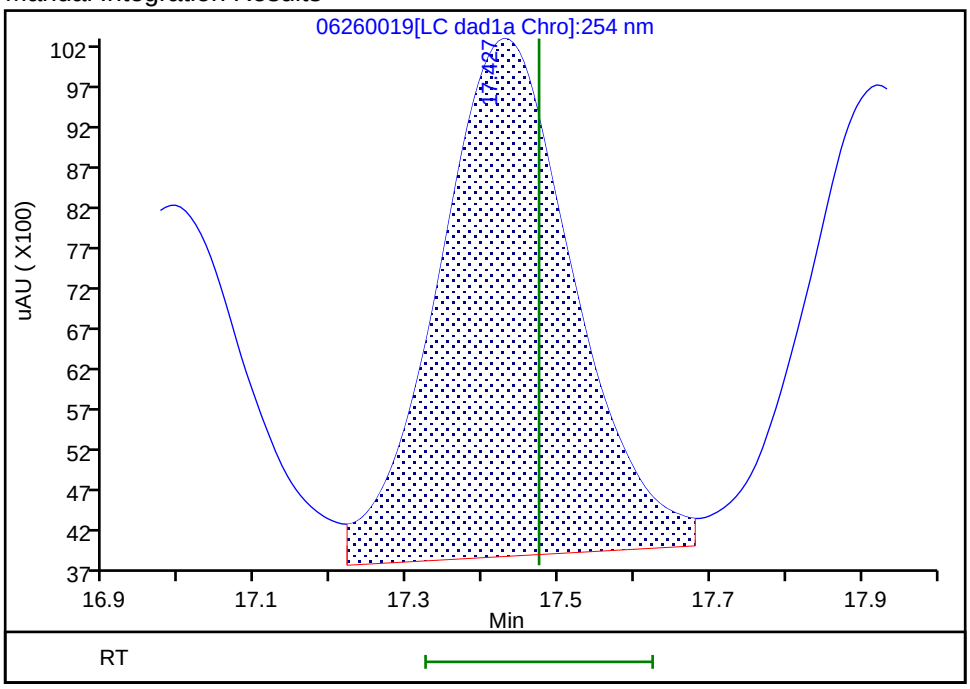
Processing Integration Results

RT: 17.43
Area: 68172
Amount: 0.197466
Amount Units: ug/ml



Manual Integration Results

RT: 17.43
Area: 79861
Amount: 0.231324
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:58:29

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

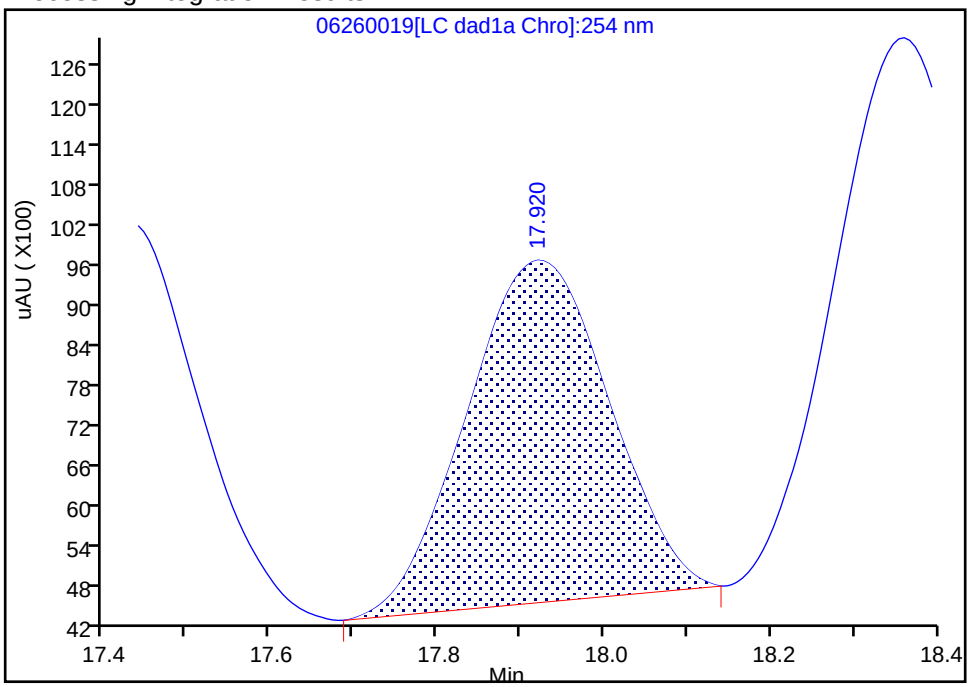
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260019.d				
Injection Date:	27-Jun-2020 01:34:35	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

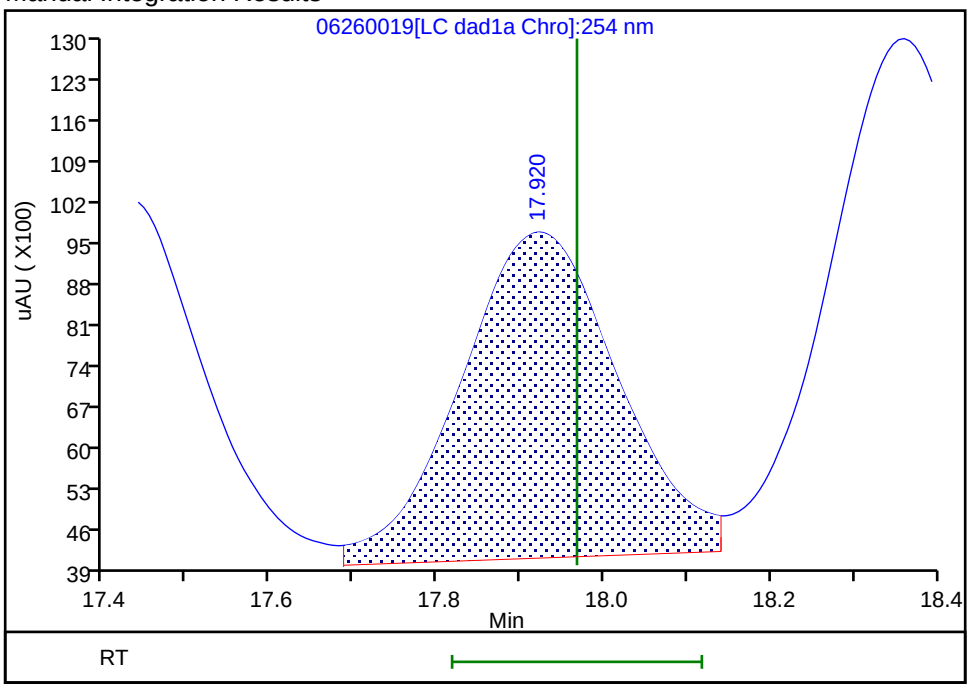
Processing Integration Results

RT: 17.92
Area: 60674
Amount: 0.203381
Amount Units: ug/ml



Manual Integration Results

RT: 17.92
Area: 73526
Amount: 0.246461
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:58:29

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

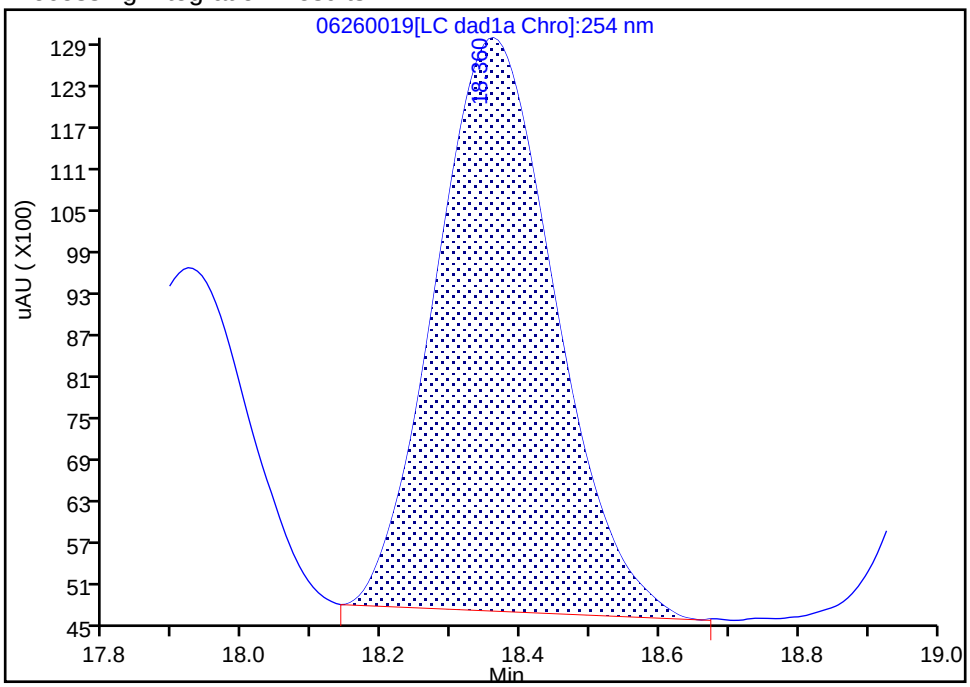
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260019.d				
Injection Date:	27-Jun-2020 01:34:35	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

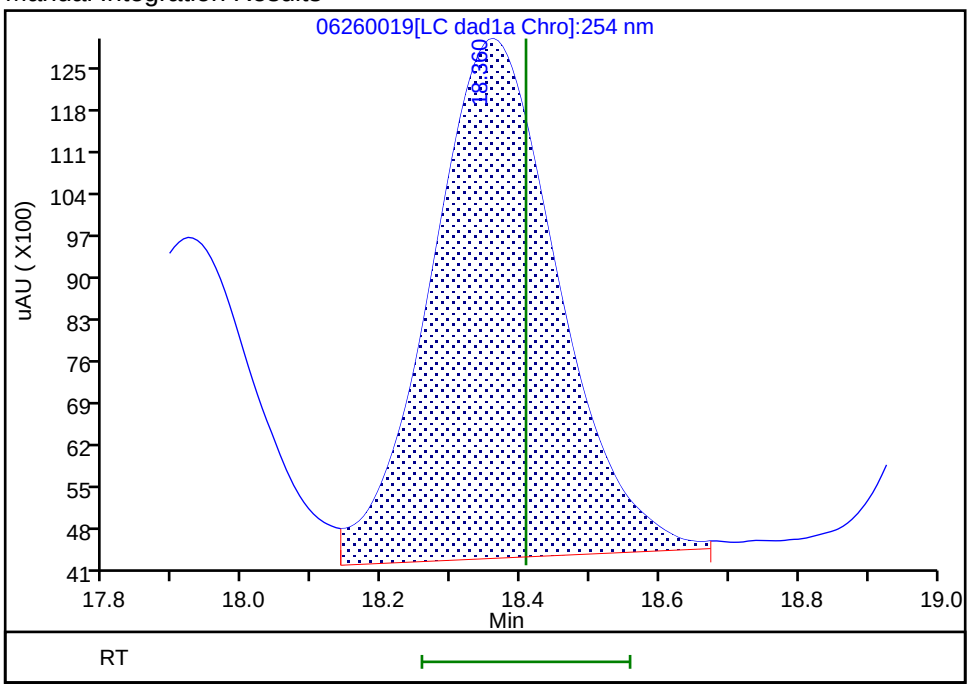
Processing Integration Results

RT: 18.36
Area: 99182
Amount: 0.213198
Amount Units: ug/ml



Manual Integration Results

RT: 18.36
Area: 110622
Amount: 0.237789
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:58:29

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

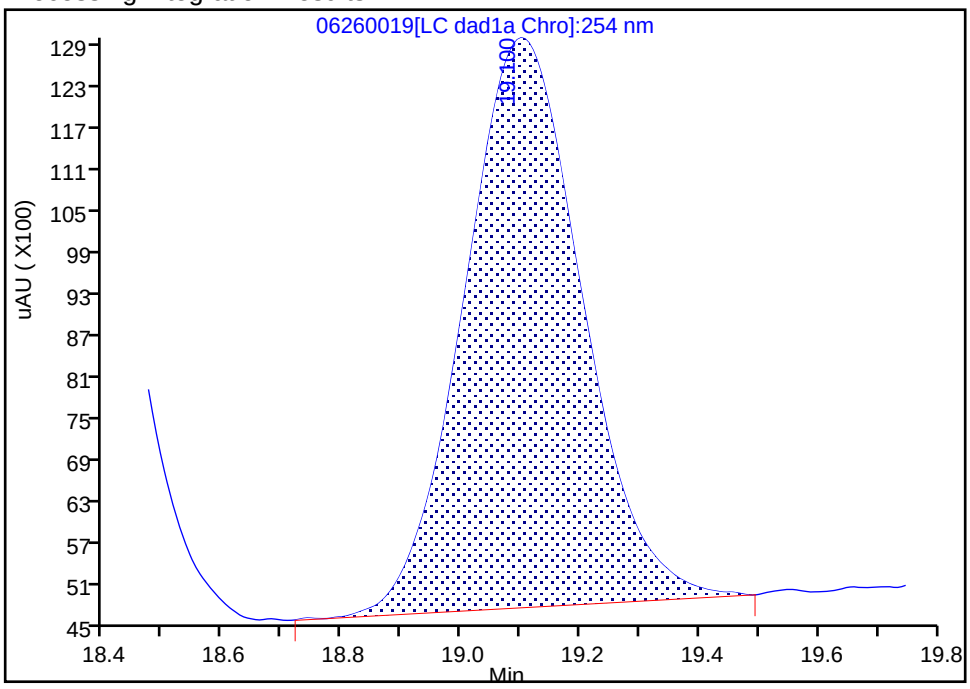
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260019.d				
Injection Date:	27-Jun-2020 01:34:35	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

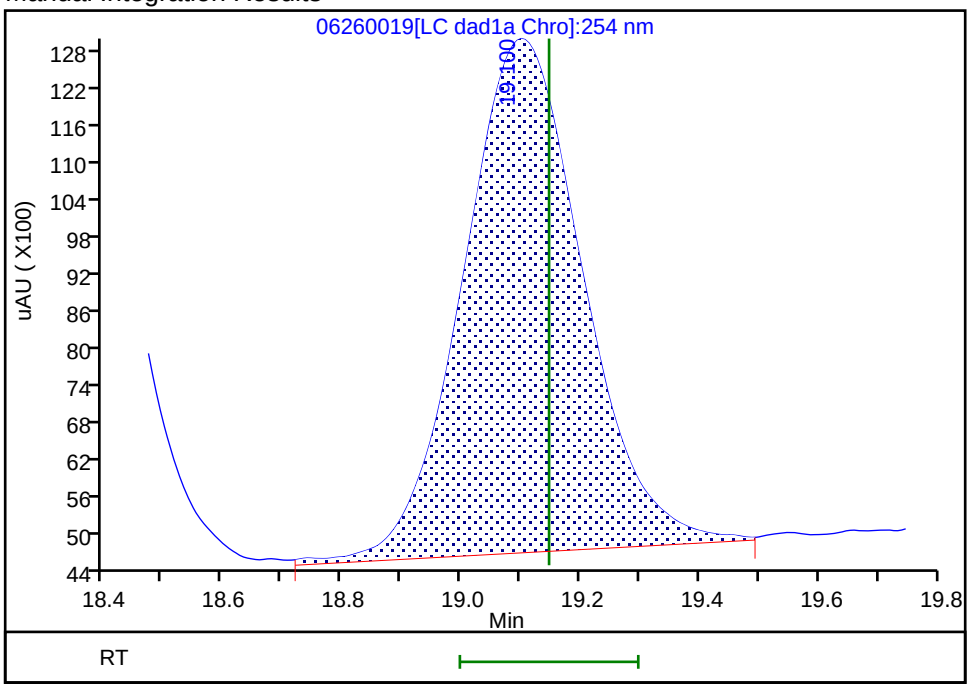
Processing Integration Results

RT: 19.10
Area: 112766
Amount: 0.238683
Amount Units: ug/ml



Manual Integration Results

RT: 19.10
Area: 115666
Amount: 0.244821
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:58:29

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

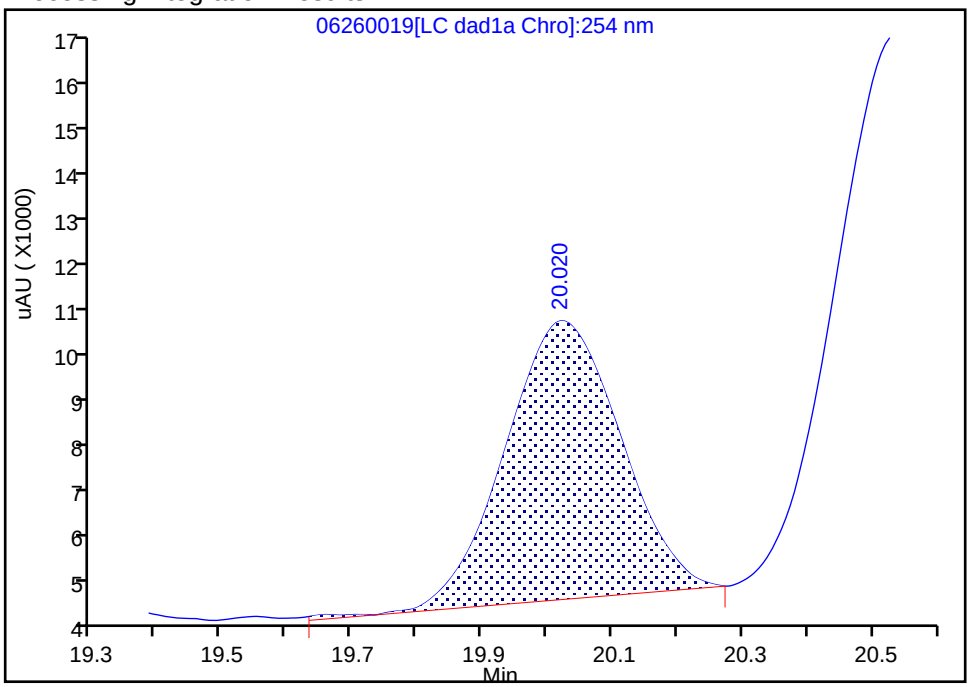
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260019.d
Injection Date: 27-Jun-2020 01:34:35 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

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

Signal: 1

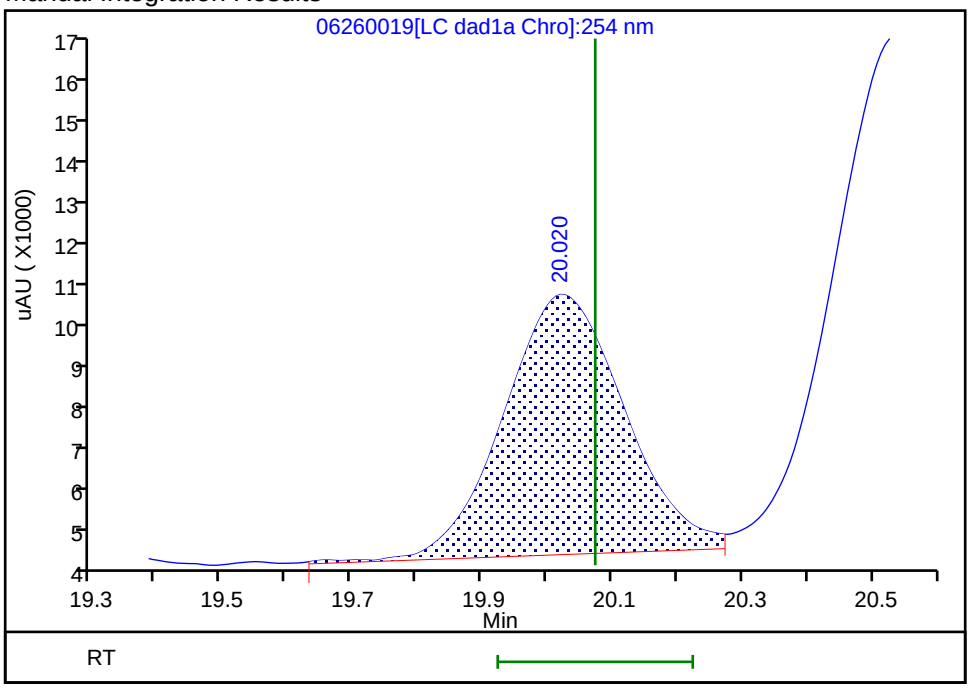
Processing Integration Results

RT: 20.02
Area: 68202
Amount: 0.220477
Amount Units: ug/ml



Manual Integration Results

RT: 20.02
Area: 73674
Amount: 0.239397
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:58:29
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

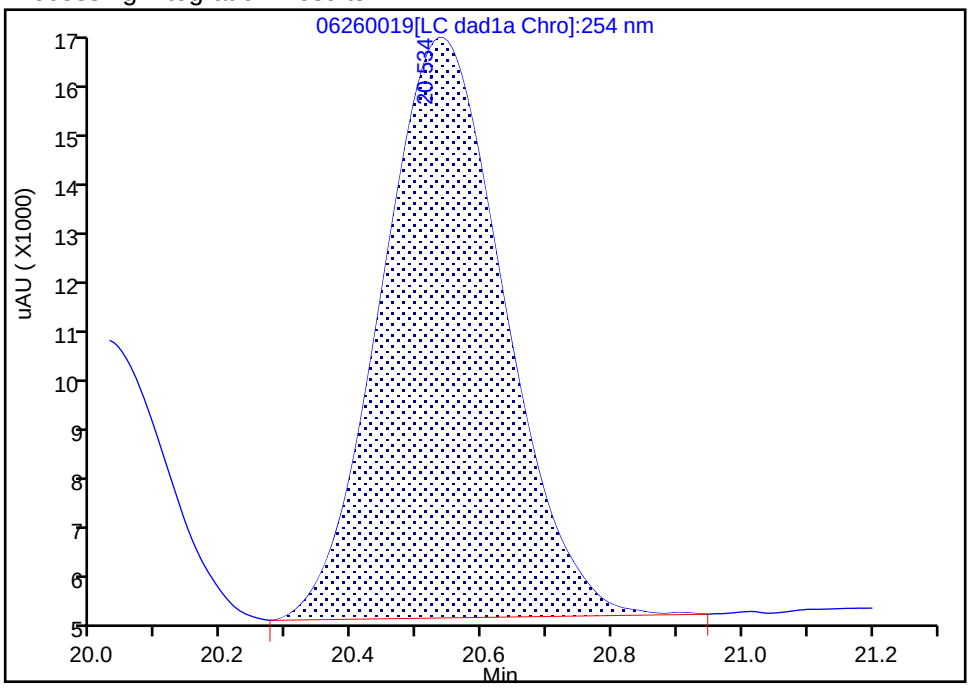
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260019.d				
Injection Date:	27-Jun-2020 01:34:35	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	19
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

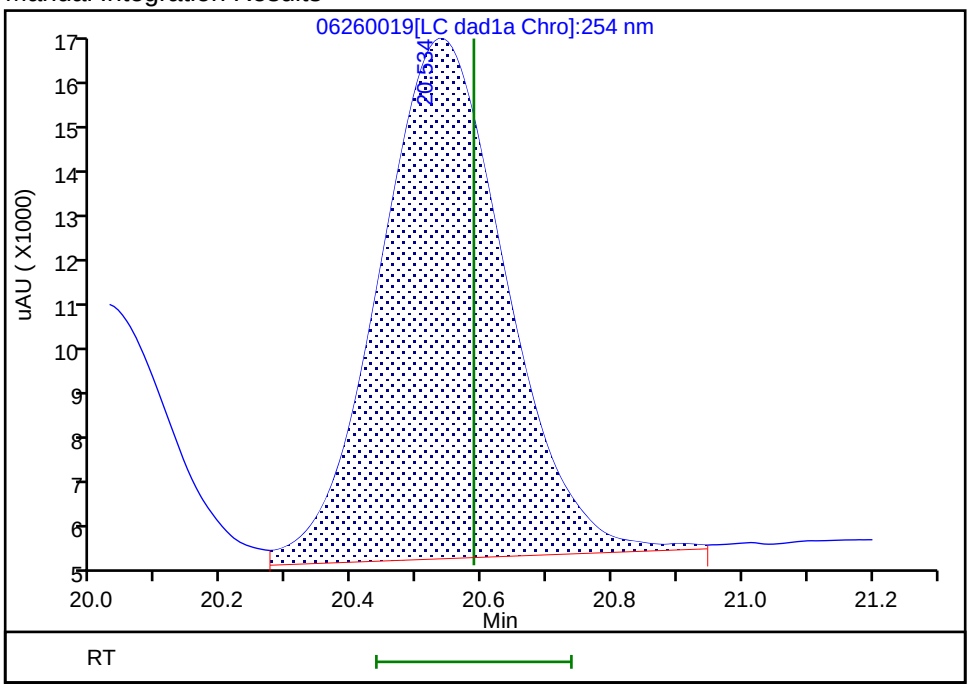
Processing Integration Results

RT: 20.53
Area: 142327
Amount: 0.222347
Amount Units: ug/ml



Manual Integration Results

RT: 20.53
Area: 150266
Amount: 0.234749
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 11:58:29

Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500326/20 Calibration Date: 06/27/2020 02:09

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 06260020.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	435816	413451		237	250	-5.1	15.0
DNX	Ave	321206	307117		239	250	-4.4	15.0
MNX	Lin2		280795		287	292	-1.7	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500326/20 Calibration Date: 06/27/2020 02:09

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 06260020.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.51	5.38	5.68
DNX	6.35	6.22	6.52
MNX	7.90	7.77	8.07

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260020.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	27-Jun-2020 02:09:30	ALS Bottle#:	8	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092796-020				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 15:28:01	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1036				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.514	5.525	-0.011	103466	0.2503	0.2374	
4 DNX	1	6.354	6.365	-0.011	76856	0.2503	0.2393	
7 MNX	1	7.901	7.919	-0.018	81922	0.2918	0.2867	

Reagents:

8330 DMT_00006 Amount Added: 12.50 Units: uL

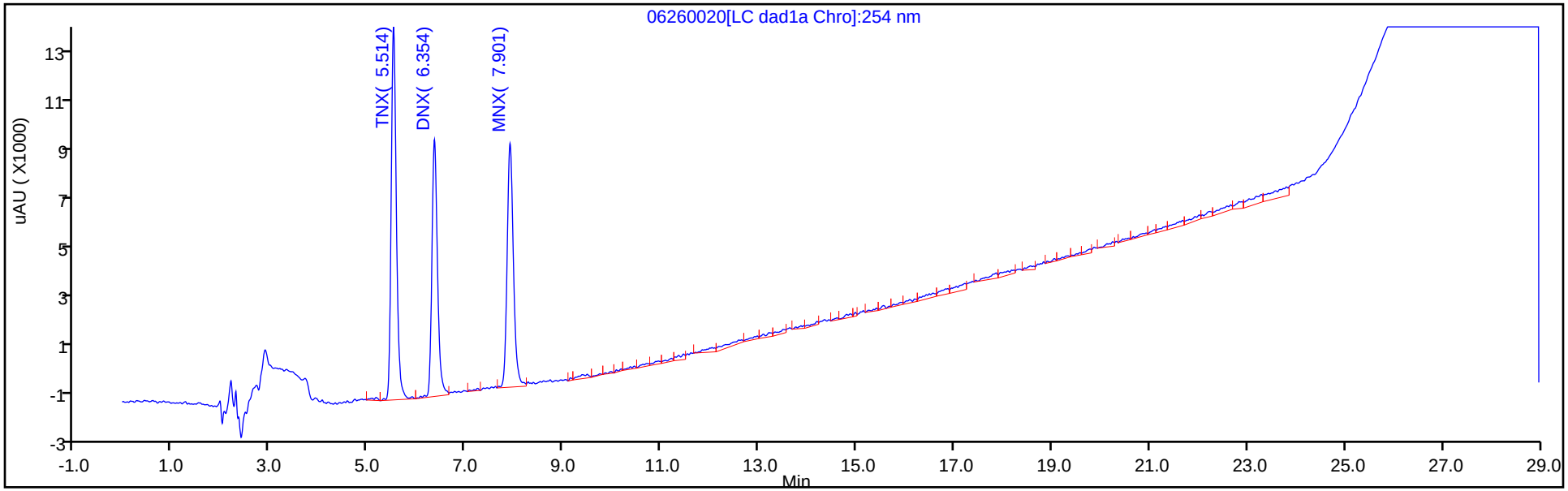
Report Date: 27-Jun-2020 15:28:01 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

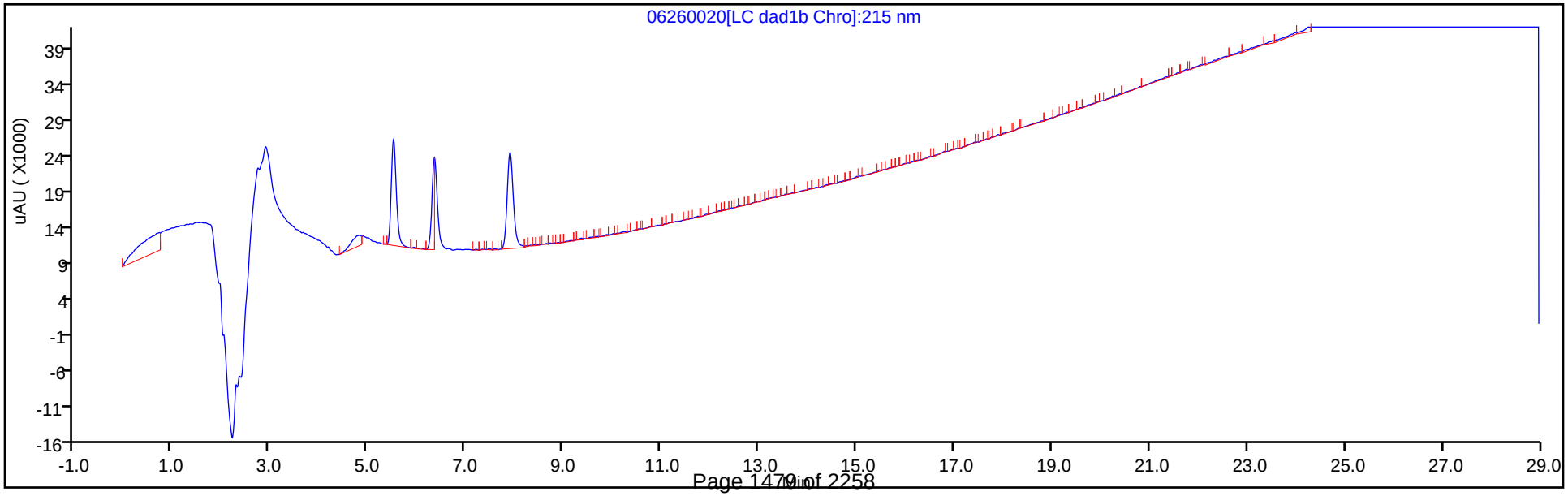
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260020.d

Injection Date:	27-Jun-2020 02:09:30	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	20
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500326/27 Calibration Date: 06/27/2020 11:31

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 06260027.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin2		178048		221	250	-11.4	15.0
Picric acid	Ave	193810	138588		179	250	-28.5*	15.0
RDX	Ave	244360	216712		222	250	-11.3	15.0
Nitrobenzene	Ave	439227	403351		230	251	-8.2	15.0
1,3-Dinitrobenzene	Ave	674189	660188		245	251	-2.1	15.0
Nitroglycerin	Ave	126803	140676		2770	2500	10.9	15.0
2-Nitrotoluene	Ave	272965	244600		224	250	-10.4	15.0
4-Nitrotoluene	Ave	240881	232251		242	251	-3.6	15.0
4-Amino-2,6-dinitrotoluene	Ave	345235	332484		241	250	-3.7	15.0
3-Nitrotoluene	Ave	298327	298633		251	250	0.1	15.0
2-Amino-4,6-dinitrotoluene	Ave	465211	450303		243	251	-3.2	15.0
1,3,5-Trinitrobenzene	Ave	472451	475345		252	251	0.6	15.0
2,6-Dinitrotoluene	Lin2		301474		246	251	-1.9	15.0
2,4-Dinitrotoluene	Ave	640113	602414		236	251	-5.9	15.0
Tetryl	Ave	368678	353062		240	251	-4.2	15.0
2,4,6-Trinitrotoluene	Lin1		379466		229	251	-8.6	15.0
PETN	Lin1		139904		2490	2500	-0.3	15.0
1,2-Dinitrobenzene	Lin1		293672		258	250	3.3	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500327/27 Calibration Date: 06/27/2020 11:31

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 06260027.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin2		178048		221	250	-11.4	15.0
Picric acid	Ave	193810	138588		179	250	-28.5*	15.0
RDX	Ave	244360	216712		222	250	-11.3	15.0
Nitrobenzene	Ave	439227	403351		230	251	-8.2	15.0
1,3-Dinitrobenzene	Ave	674189	660188		245	251	-2.1	15.0
Nitroglycerin	Ave	126803	140676		2770	2500	10.9	15.0
2-Nitrotoluene	Ave	272965	244600		224	250	-10.4	15.0
4-Nitrotoluene	Ave	240881	232251		242	251	-3.6	15.0
4-Amino-2,6-dinitrotoluene	Ave	345235	332484		241	250	-3.7	15.0
3-Nitrotoluene	Ave	298327	298633		251	250	0.1	15.0
2-Amino-4,6-dinitrotoluene	Ave	465211	450303		243	251	-3.2	15.0
1,3,5-Trinitrobenzene	Ave	472451	475345		252	251	0.6	15.0
2,6-Dinitrotoluene	Lin2		301474		246	251	-1.9	15.0
2,4-Dinitrotoluene	Ave	640113	602414		236	251	-5.9	15.0
Tetryl	Ave	368678	353062		240	251	-4.2	15.0
2,4,6-Trinitrotoluene	Lin1		379466		229	251	-8.6	15.0
PETN	Lin1		139904		2490	2500	-0.3	15.0
1,2-Dinitrobenzene	Lin1		293672		258	250	3.3	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500326/27 Calibration Date: 06/27/2020 11:31

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 06260027.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	7.13	7.00	7.30
Picric acid	8.41	8.23	8.53
RDX	9.32	9.22	9.52
Nitrobenzene	12.23	12.12	12.42
1,3-Dinitrobenzene	15.74	15.66	15.96
Nitroglycerin	15.98	15.89	16.19
2-Nitrotoluene	16.68	16.60	16.90
4-Nitrotoluene	16.96	16.88	17.18
4-Amino-2,6-dinitrotoluene	17.40	17.32	17.62
3-Nitrotoluene	17.90	17.82	18.12
2-Amino-4,6-dinitrotoluene	18.32	18.26	18.56
1,3,5-Trinitrobenzene	19.06	19.00	19.30
2,6-Dinitrotoluene	20.00	19.92	20.22
2,4-Dinitrotoluene	20.50	20.44	20.74
Tetryl	23.80	23.74	24.04
2,4,6-Trinitrotoluene	24.82	24.76	25.06
PETN	25.38	25.28	25.58
1,2-Dinitrobenzene	13.22	13.13	13.43

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500327/27 Calibration Date: 06/27/2020 11:31

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 06260027.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	7.13	7.00	7.30
Picric acid	8.41	8.23	8.53
RDX	9.32	9.22	9.52
Nitrobenzene	12.23	12.12	12.42
1,3-Dinitrobenzene	15.74	15.66	15.96
Nitroglycerin	15.98	15.89	16.19
2-Nitrotoluene	16.68	16.60	16.90
4-Nitrotoluene	16.96	16.88	17.18
4-Amino-2,6-dinitrotoluene	17.40	17.32	17.62
3-Nitrotoluene	17.90	17.82	18.12
2-Amino-4,6-dinitrotoluene	18.32	18.26	18.56
1,3,5-Trinitrobenzene	19.06	19.00	19.30
2,6-Dinitrotoluene	20.00	19.92	20.22
2,4-Dinitrotoluene	20.50	20.44	20.74
Tetryl	23.80	23.74	24.04
2,4,6-Trinitrotoluene	24.82	24.76	25.06
PETN	25.38	25.28	25.58
1,2-Dinitrobenzene	13.22	13.13	13.43

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260027.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 27-Jun-2020 11:31:09 ALS Bottle#: 7 Worklist Smp#: 27
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 280-0092796-027
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 16:18:46 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 27-Jun-2020 16:18:19

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.444	4.447	-0.003	106161	0.2500	0.2473	
2 2,4-diamino-6-nitrotoluene	1	4.984	4.981	0.003	64975	0.2500	0.2500	
6 HMX	1	7.131	7.154	-0.023	44512	0.2500	0.2214	M
5 2,4,6-Trinitrophenol	1	8.411	8.381	0.030	34647	0.2500	0.1788	M
8 RDX	1	9.324	9.367	-0.043	54178	0.2500	0.2217	M
9 Nitrobenzene	1	12.231	12.274	-0.043	101241	0.2510	0.2305	
$ 10 1,2-Dinitrobenzene	1	13.217	13.281	-0.064	73418	0.2500	0.2582	
11 3,5-Dinitroaniline	1	15.144	15.214	-0.070	121537	0.2500	0.2449	M
12 1,3-Dinitrobenzene	1	15.744	15.814	-0.070	165377	0.2505	0.2453	M
13 Nitroglycerin	2	15.977	16.041	-0.064	351690	2.50	2.77	M
14 o-Nitrotoluene	1	16.684	16.754	-0.070	61150	0.2500	0.2240	M
15 p-Nitrotoluene	1	16.964	17.034	-0.070	58179	0.2505	0.2415	M
16 4-Amino-2,6-dinitrotoluene	1	17.397	17.474	-0.077	83204	0.2503	0.2410	M
17 m-Nitrotoluene	1	17.897	17.967	-0.070	74733	0.2503	0.2505	M
18 2-Amino-4,6-dinitrotoluene	1	18.324	18.407	-0.083	113026	0.2510	0.2430	M
19 1,3,5-Trinitrobenzene	1	19.064	19.147	-0.083	119074	0.2505	0.2520	M
20 2,6-Dinitrotoluene	1	19.997	20.074	-0.077	75670	0.2510	0.2463	M
21 2,4-Dinitrotoluene	1	20.504	20.587	-0.083	151206	0.2510	0.2362	M
22 Tetryl	1	23.798	23.887	-0.089	88442	0.2505	0.2399	
23 2,4,6-Trinitrotoluene	1	24.824	24.907	-0.083	95246	0.2510	0.2293	
24 PETN	2	25.378	25.434	-0.056	349759	2.50	2.49	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00064	Amount Added:	25.00	Units: uL
8330_ADDs_00027	Amount Added:	12.50	Units: uL

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260027.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 27-Jun-2020 11:31:09 ALS Bottle#: 7 Worklist Smp#: 27
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 280-0092796-027
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 16:18:46 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 27-Jun-2020 16:18:19

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.444	4.447	-0.003	106161	0.2500	0.2473	
2 2,4-diamino-6-nitrotoluene	1	4.984	4.981	0.003	64975	0.2500	0.2500	
6 HMX	1	7.131	7.154	-0.023	44512	0.2500	0.2214	M
5 2,4,6-Trinitrophenol	1	8.411	8.381	0.030	34647	0.2500	0.1788	M
8 RDX	1	9.324	9.367	-0.043	54178	0.2500	0.2217	M
9 Nitrobenzene	1	12.231	12.274	-0.043	101241	0.2510	0.2305	
$ 10 1,2-Dinitrobenzene	1	13.217	13.281	-0.064	73418	0.2500	0.2582	
11 3,5-Dinitroaniline	1	15.144	15.214	-0.070	121537	0.2500	0.2449	M
12 1,3-Dinitrobenzene	1	15.744	15.814	-0.070	165377	0.2505	0.2453	M
13 Nitroglycerin	2	15.977	16.041	-0.064	351690	2.50	2.77	M
14 o-Nitrotoluene	1	16.684	16.754	-0.070	61150	0.2500	0.2240	M
15 p-Nitrotoluene	1	16.964	17.034	-0.070	58179	0.2505	0.2415	M
16 4-Amino-2,6-dinitrotoluene	1	17.397	17.474	-0.077	83204	0.2503	0.2410	M
17 m-Nitrotoluene	1	17.897	17.967	-0.070	74733	0.2503	0.2505	M
18 2-Amino-4,6-dinitrotoluene	1	18.324	18.407	-0.083	113026	0.2510	0.2430	M
19 1,3,5-Trinitrobenzene	1	19.064	19.147	-0.083	119074	0.2505	0.2520	M
20 2,6-Dinitrotoluene	1	19.997	20.074	-0.077	75670	0.2510	0.2463	M
21 2,4-Dinitrotoluene	1	20.504	20.587	-0.083	151206	0.2510	0.2362	M
22 Tetryl	1	23.798	23.887	-0.089	88442	0.2505	0.2399	
23 2,4,6-Trinitrotoluene	1	24.824	24.907	-0.083	95246	0.2510	0.2293	
24 PETN	2	25.378	25.434	-0.056	349759	2.50	2.49	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00064	Amount Added:	25.00	Units: uL
8330_ADDs_00027	Amount Added:	12.50	Units: uL

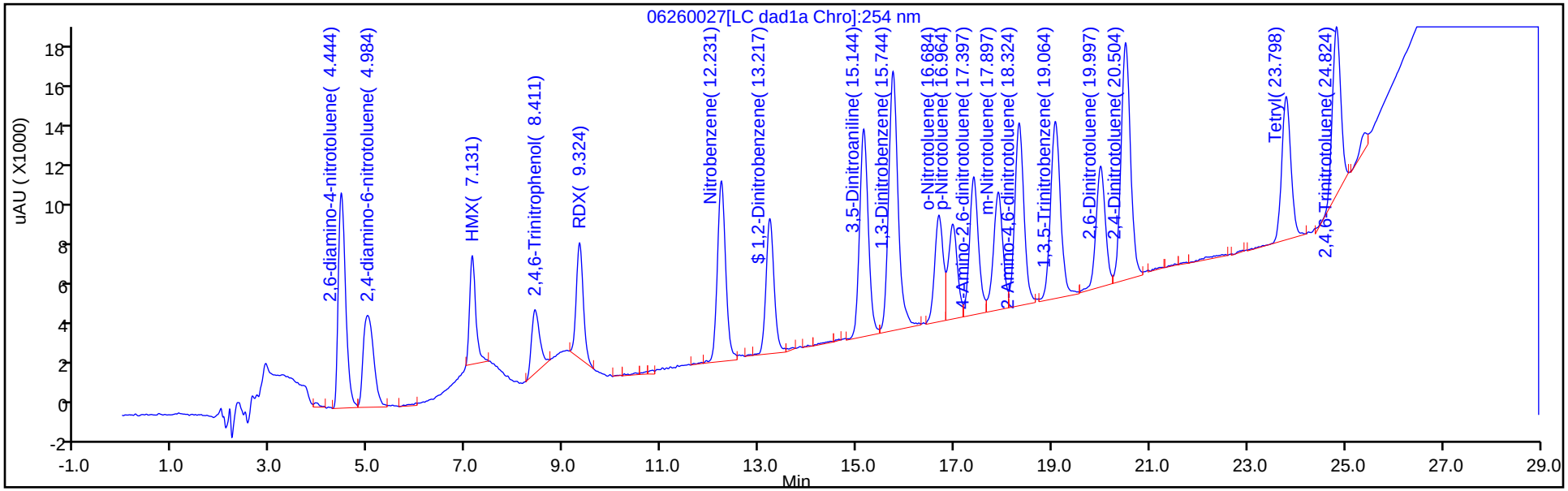
Report Date: 27-Jun-2020 16:18:47 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

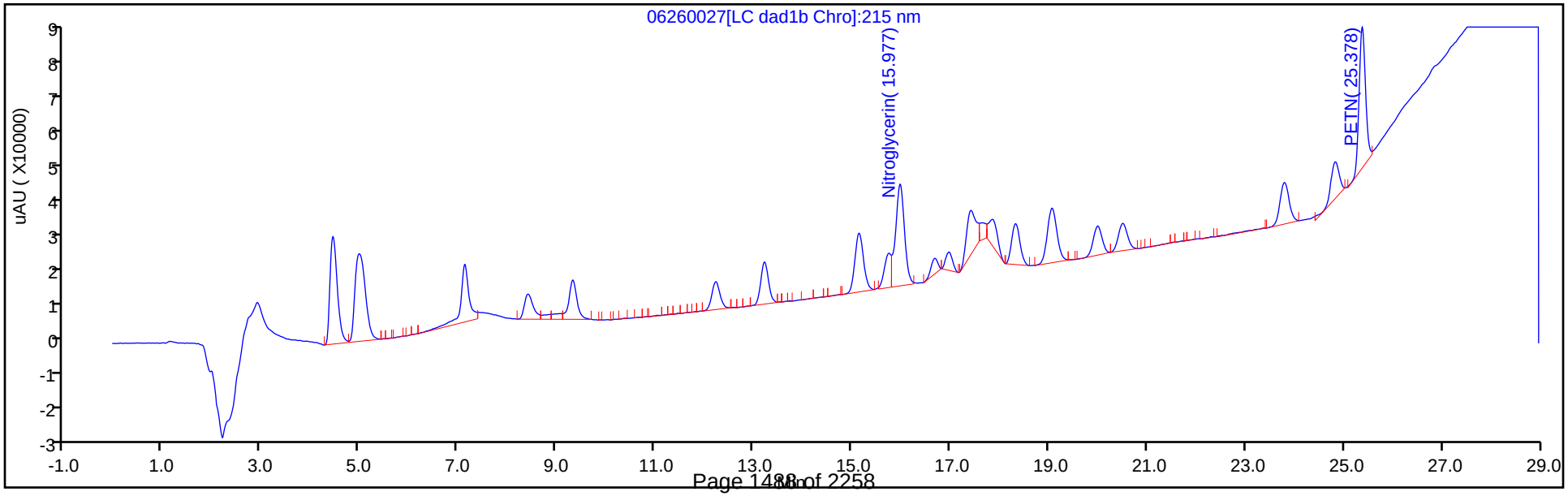
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d

Injection Date:	27-Jun-2020 11:31:09	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV			Worklist Smp#:	27
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



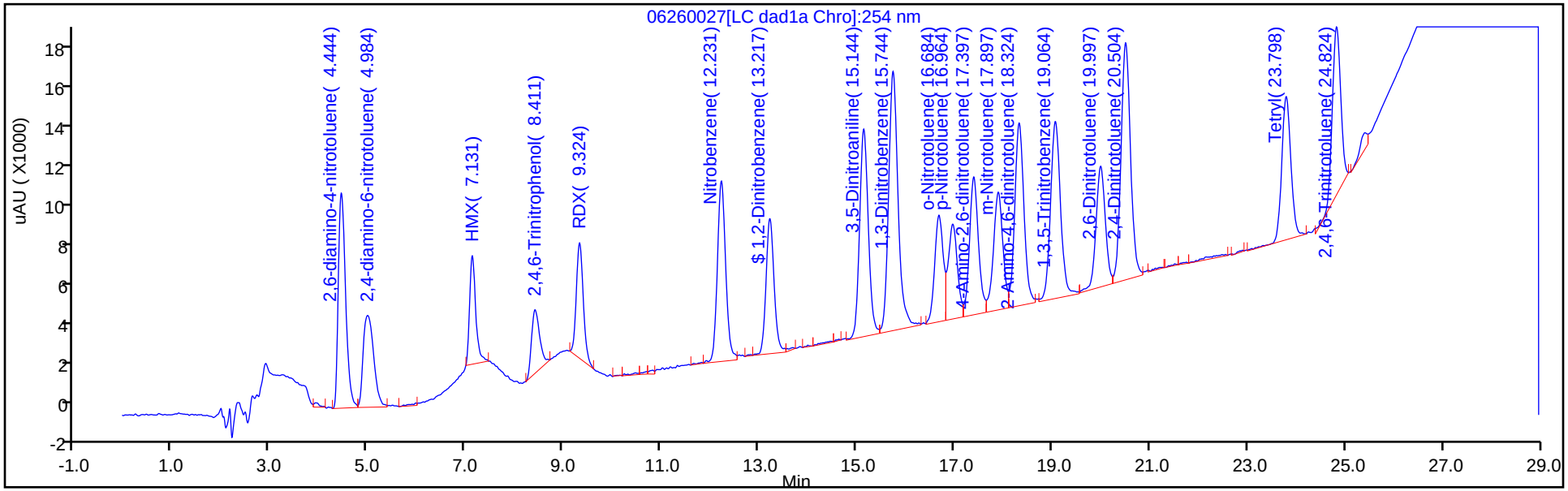
Report Date: 27-Jun-2020 16:18:46 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

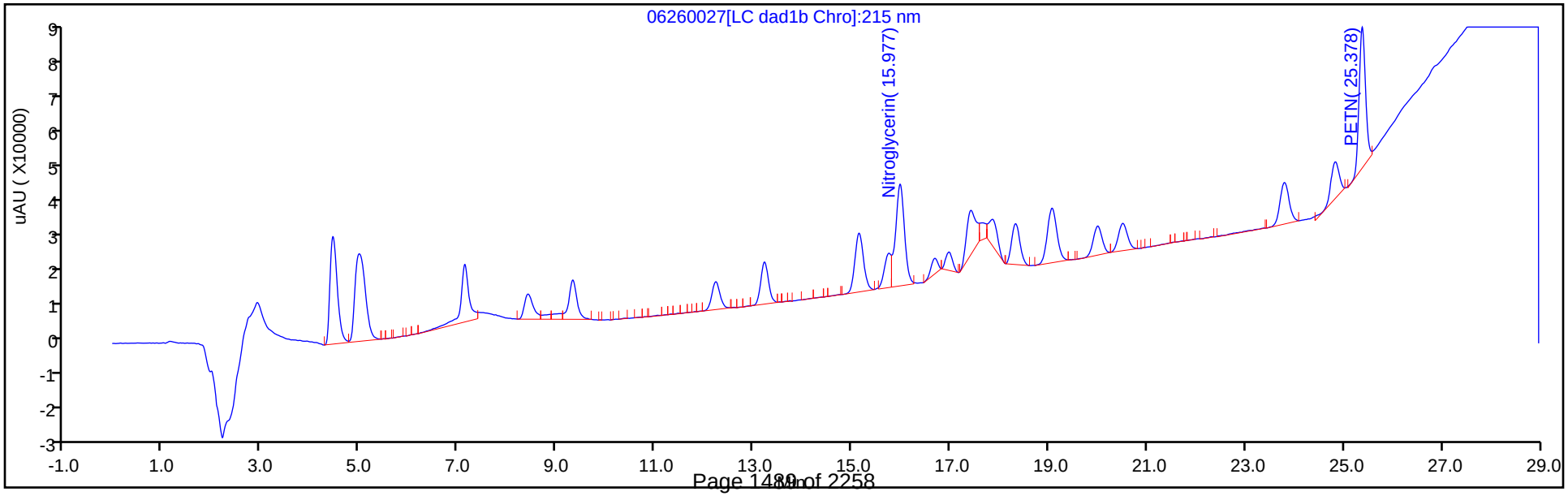
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d

Injection Date:	27-Jun-2020 11:31:09	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV			Worklist Smp#:	27
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

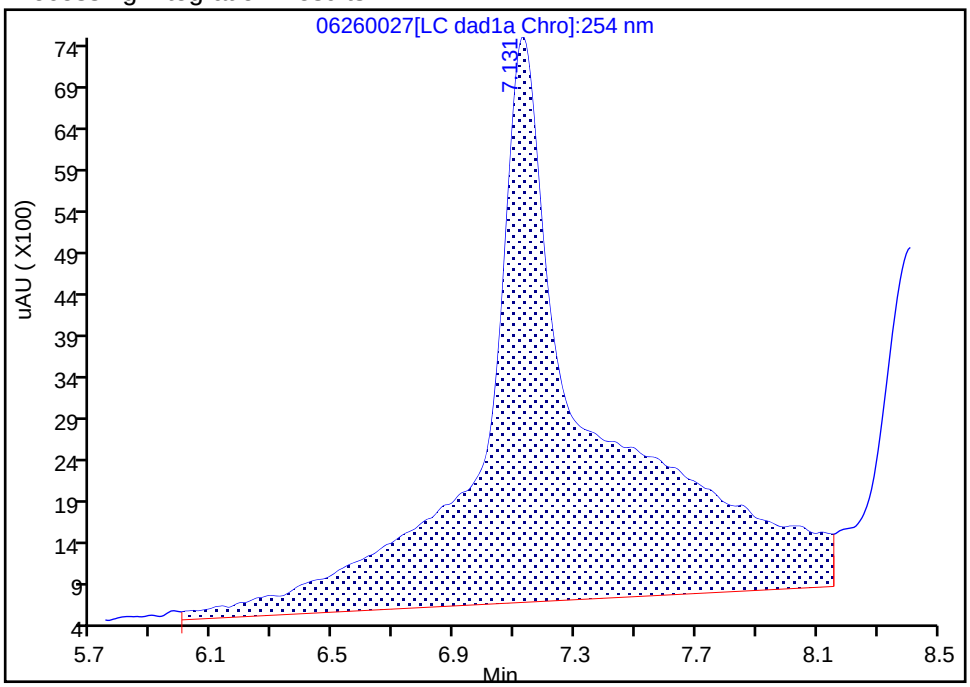
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d
Injection Date: 27-Jun-2020 11:31:09 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 27
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

6 HMX, CAS: 2691-41-0

Signal: 1

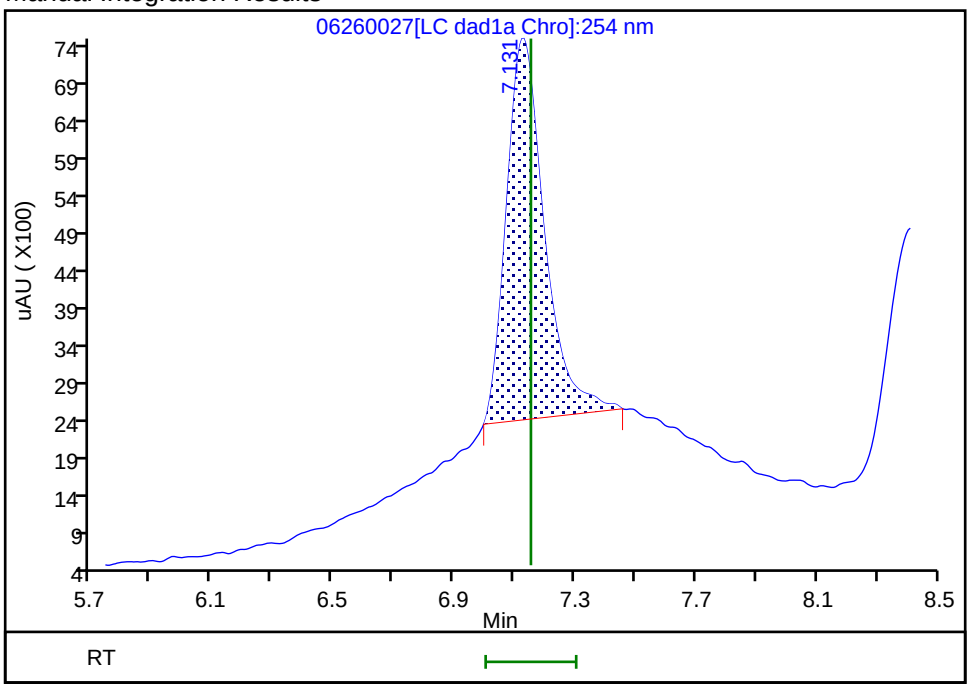
Processing Integration Results

RT: 7.13
Area: 176180
Amount: 0.965218
Amount Units: ug/ml



Manual Integration Results

RT: 7.13
Area: 44512
Amount: 0.221385
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 16:18:16
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

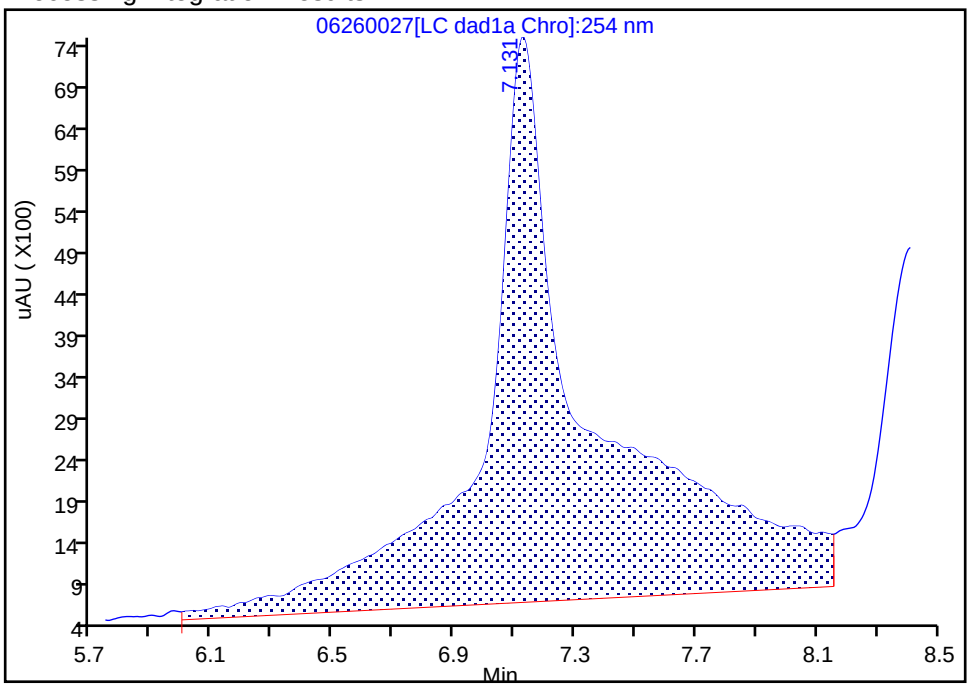
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d
Injection Date: 27-Jun-2020 11:31:09 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 27
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

6 HMX, CAS: 2691-41-0

Signal: 1

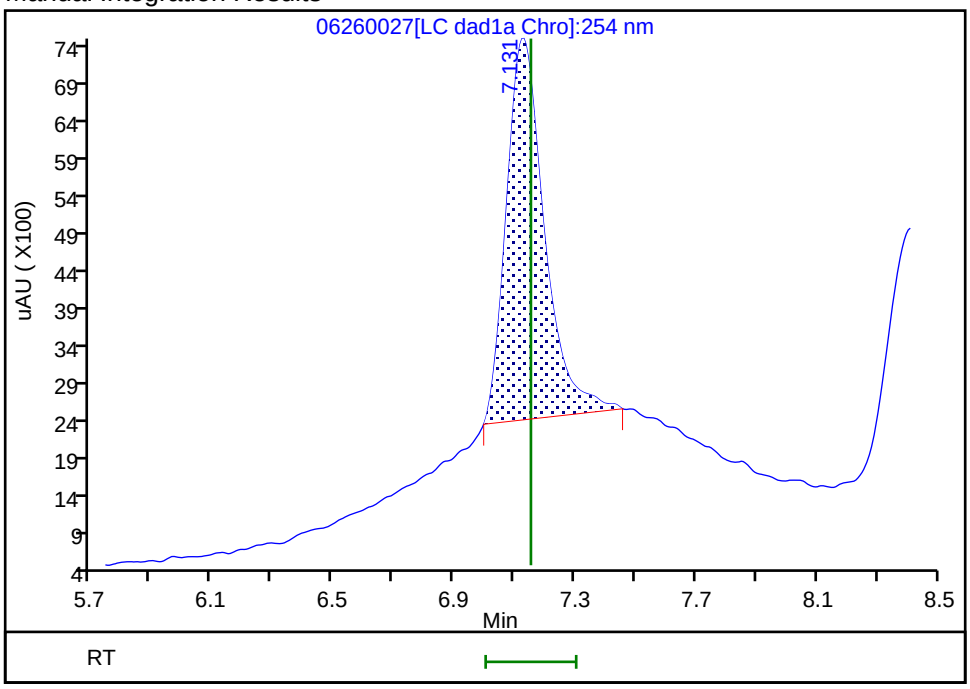
Processing Integration Results

RT: 7.13
Area: 176180
Amount: 0.965218
Amount Units: ug/ml



Manual Integration Results

RT: 7.13
Area: 44512
Amount: 0.221385
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 16:18:16
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

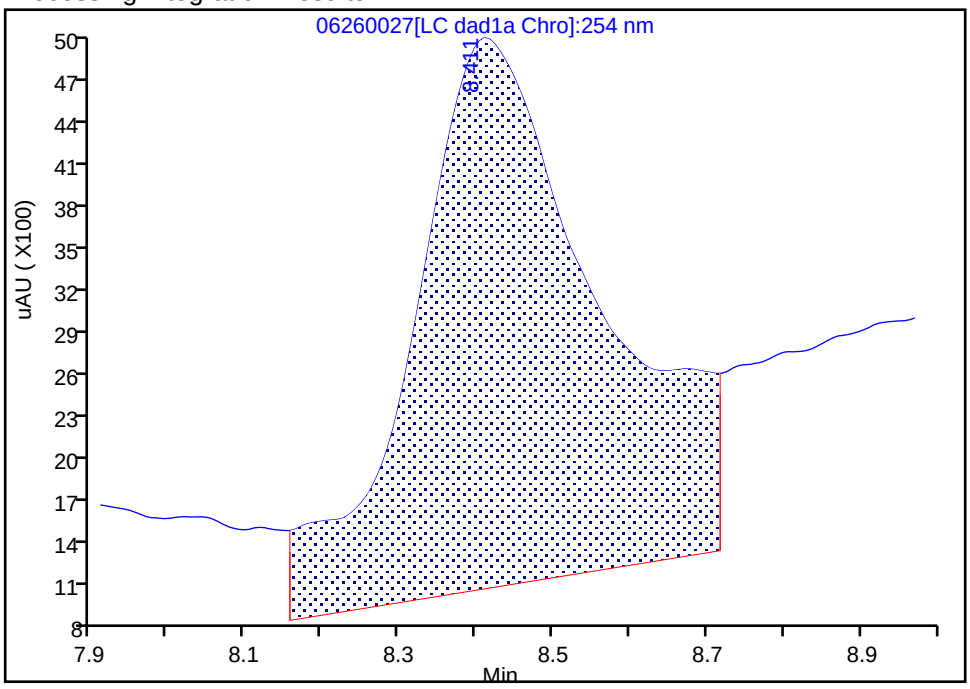
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d				
Injection Date:	27-Jun-2020 11:31:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

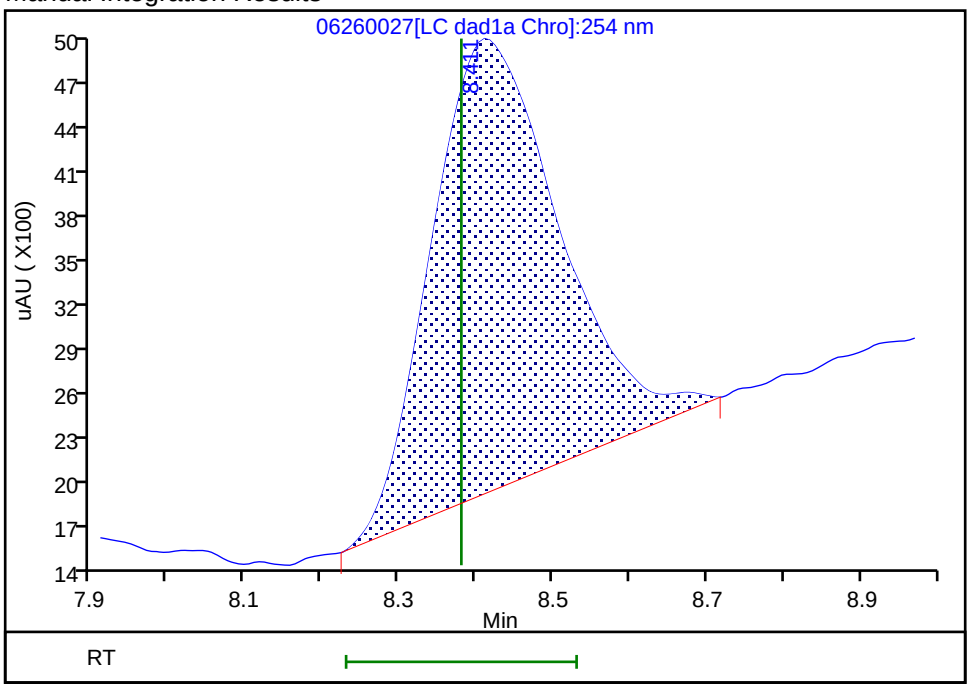
Processing Integration Results

RT: 8.41
Area: 65421
Amount: 0.337552
Amount Units: ug/ml



Manual Integration Results

RT: 8.41
Area: 34647
Amount: 0.178768
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:12:58

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

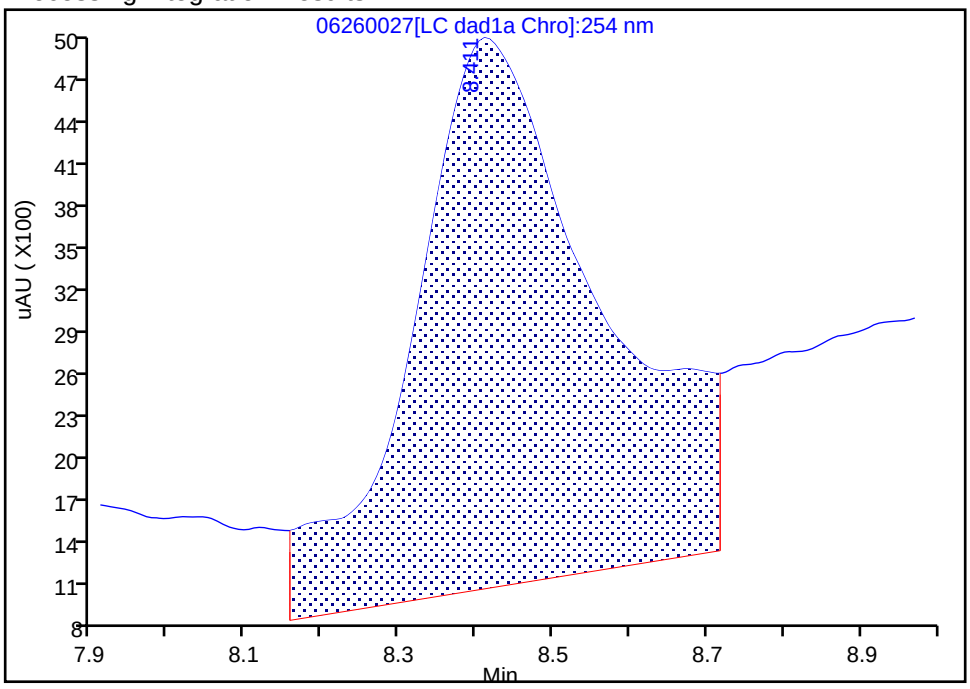
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d				
Injection Date:	27-Jun-2020 11:31:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

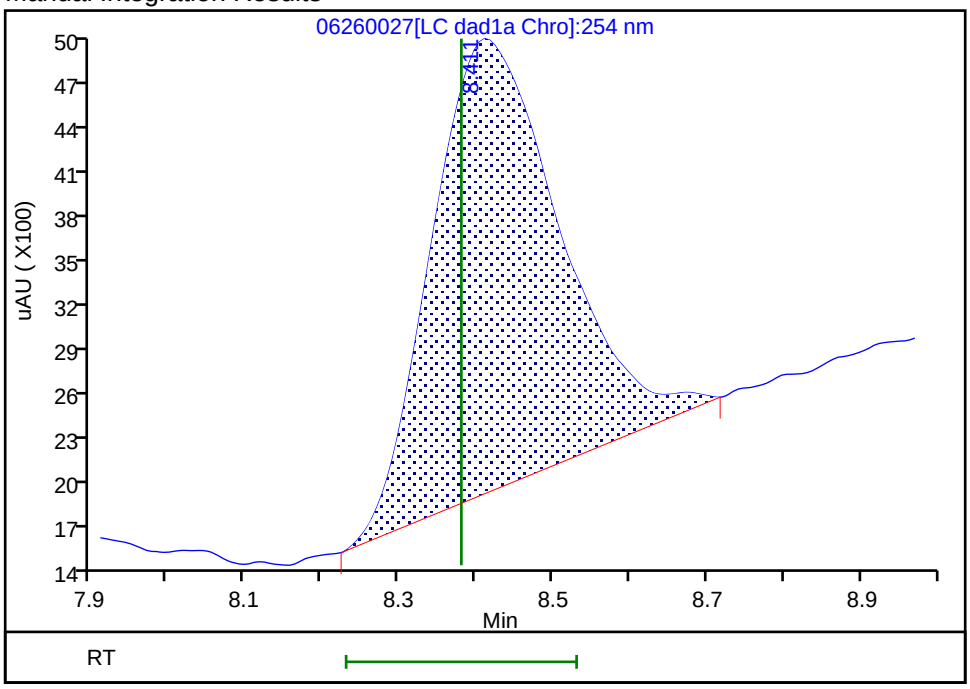
Processing Integration Results

RT: 8.41
Area: 65421
Amount: 0.337552
Amount Units: ug/ml



Manual Integration Results

RT: 8.41
Area: 34647
Amount: 0.178768
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:12:58

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

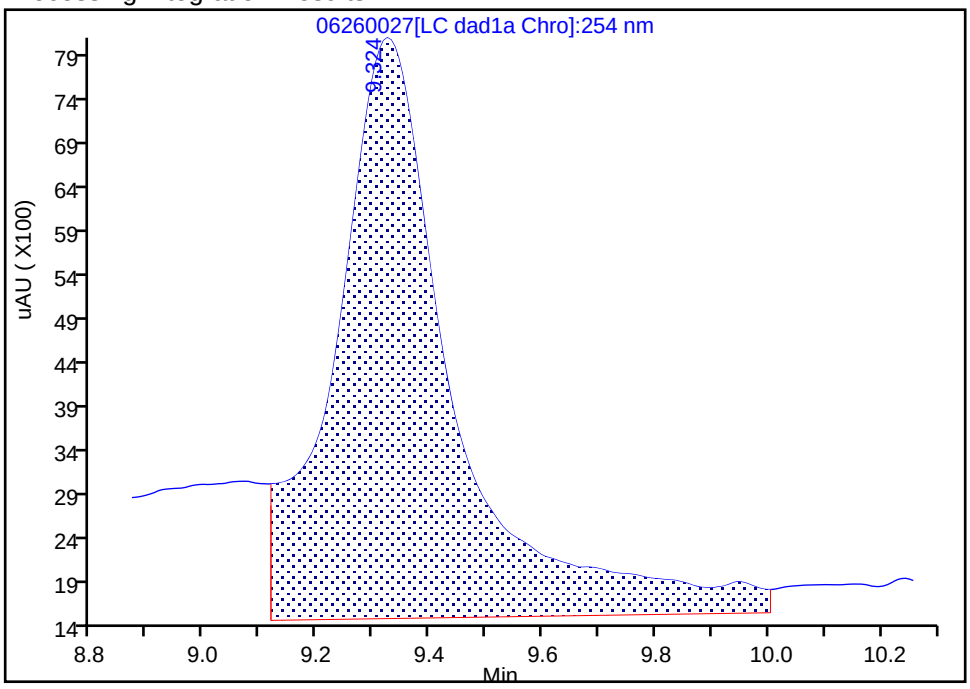
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d
Injection Date: 27-Jun-2020 11:31:09 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 27
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

8 RDX, CAS: 121-82-4

Signal: 1

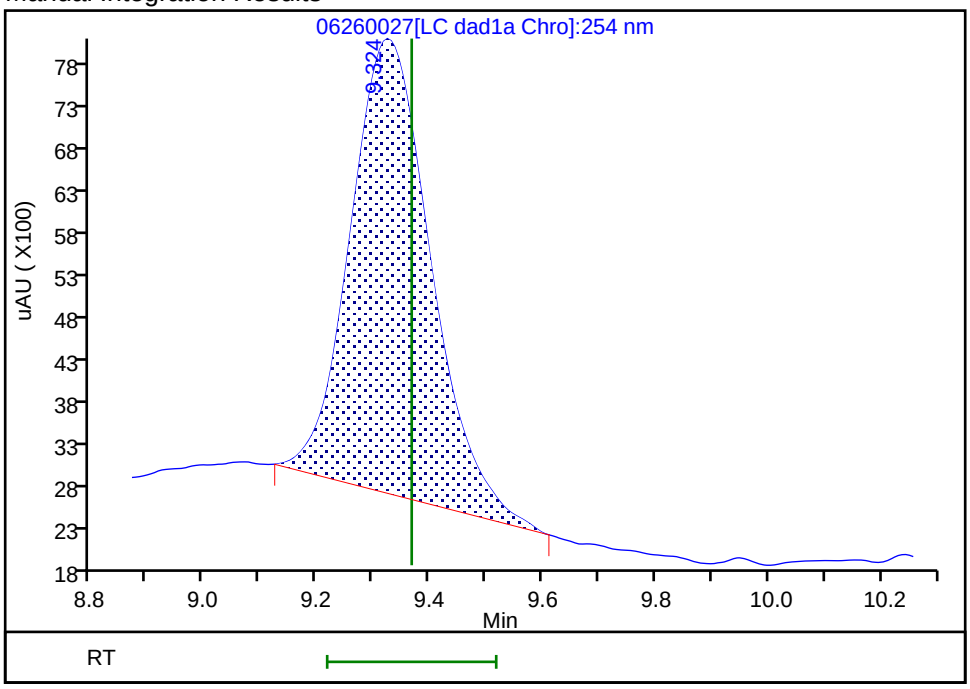
Processing Integration Results

RT: 9.32
Area: 97193
Amount: 0.397745
Amount Units: ug/ml



Manual Integration Results

RT: 9.32
Area: 54178
Amount: 0.221714
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:12:47
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

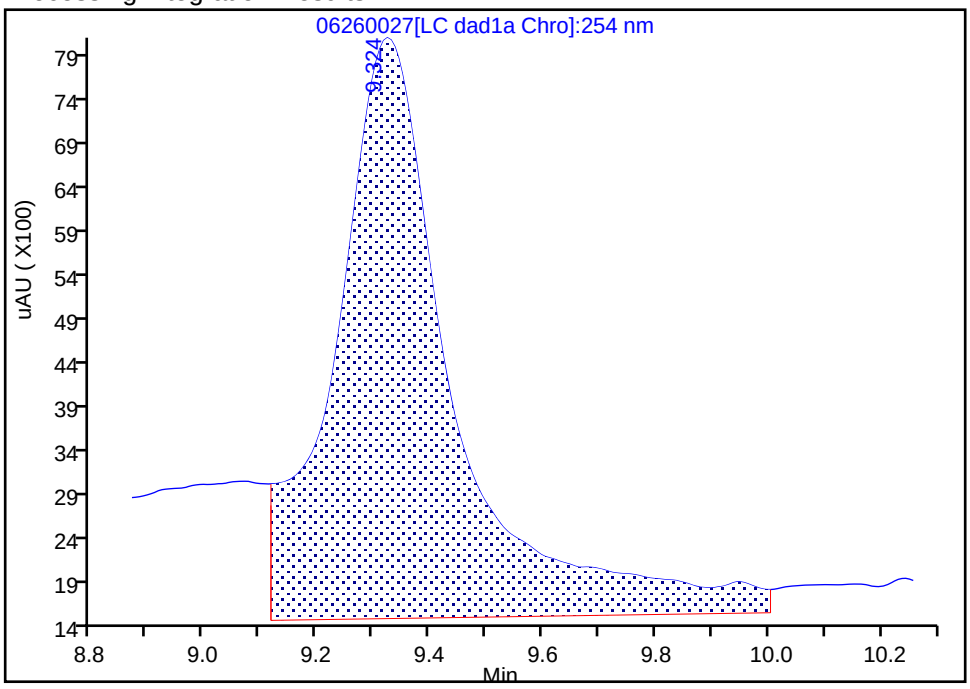
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d				
Injection Date:	27-Jun-2020 11:31:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

8 RDX, CAS: 121-82-4

Signal: 1

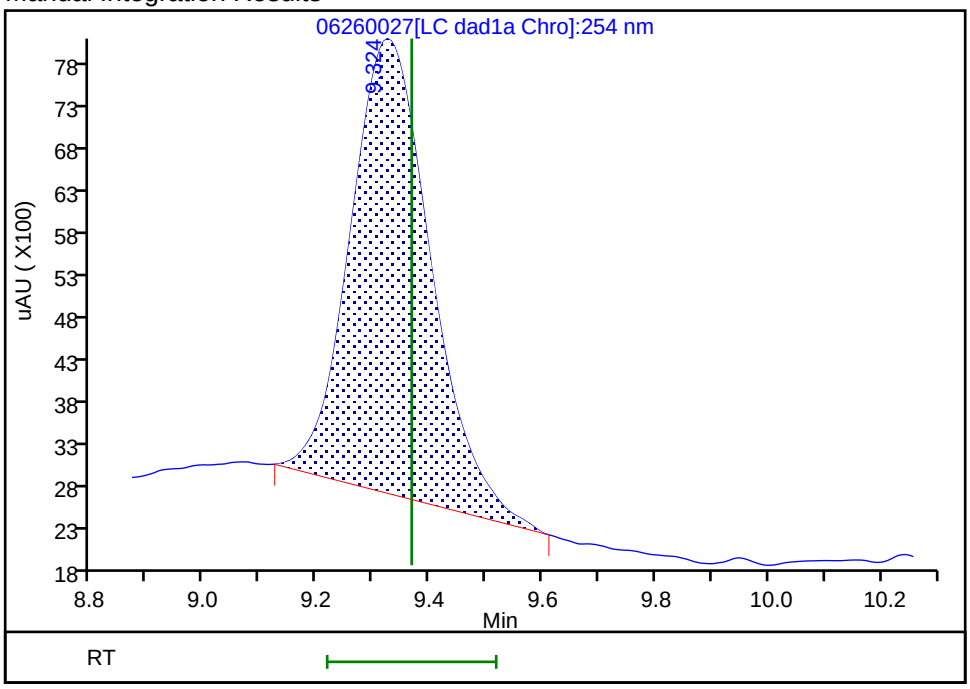
Processing Integration Results

RT: 9.32
Area: 97193
Amount: 0.397745
Amount Units: ug/ml



Manual Integration Results

RT: 9.32
Area: 54178
Amount: 0.221714
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:12:47

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

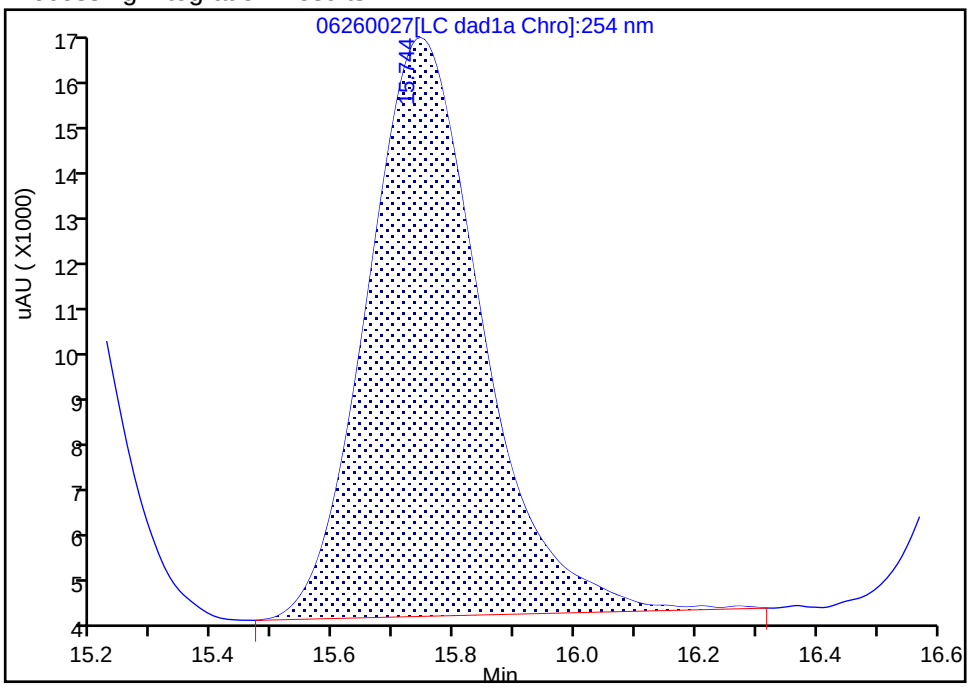
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d				
Injection Date:	27-Jun-2020 11:31:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

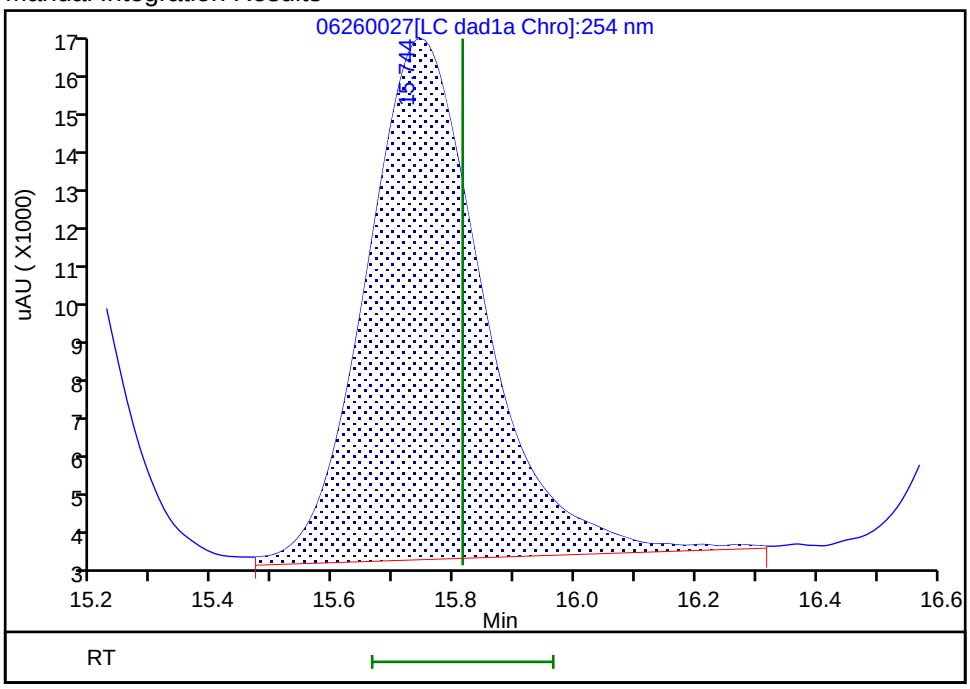
Processing Integration Results

RT: 15.74
Area: 159459
Amount: 0.236520
Amount Units: ug/ml



Manual Integration Results

RT: 15.74
Area: 165377
Amount: 0.245298
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:11:52

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

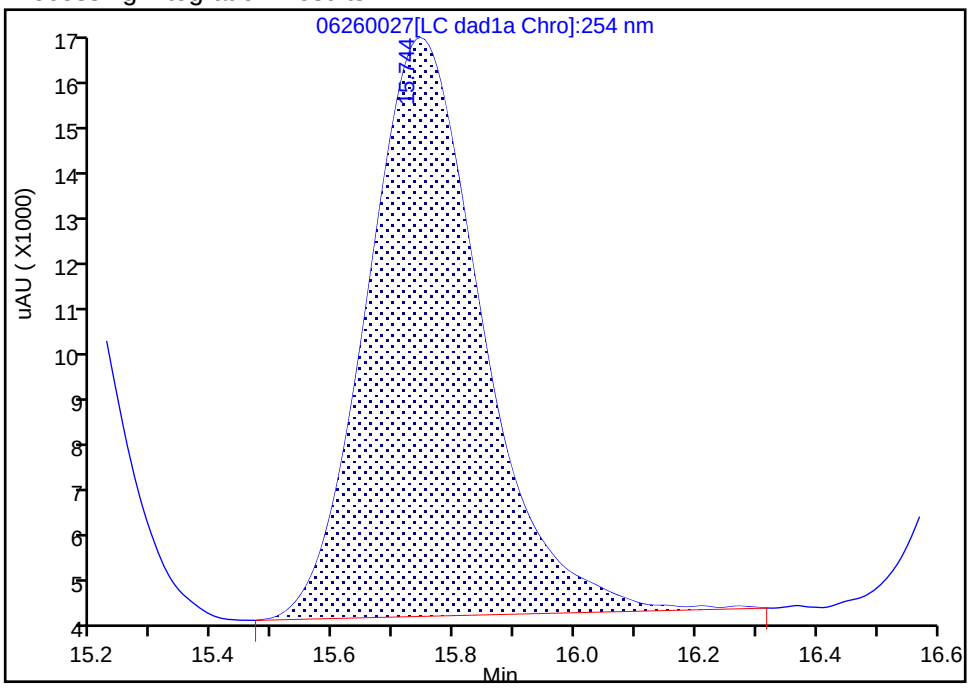
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d				
Injection Date:	27-Jun-2020 11:31:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

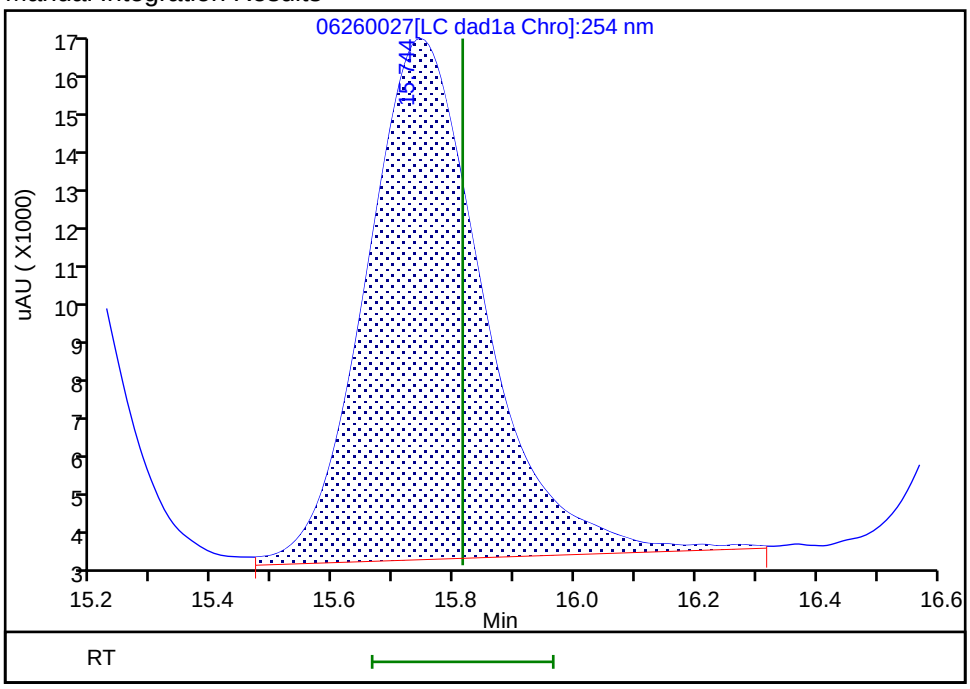
Processing Integration Results

RT: 15.74
Area: 159459
Amount: 0.236520
Amount Units: ug/ml



Manual Integration Results

RT: 15.74
Area: 165377
Amount: 0.245298
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:11:52

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

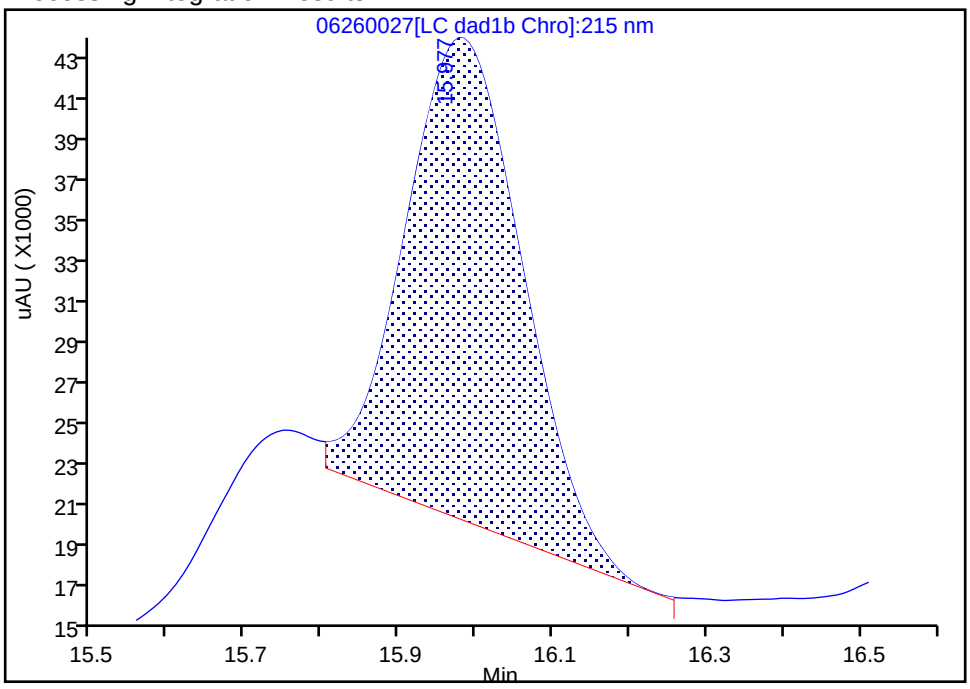
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d
Injection Date: 27-Jun-2020 11:31:09 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 27
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Detector LC DAD1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

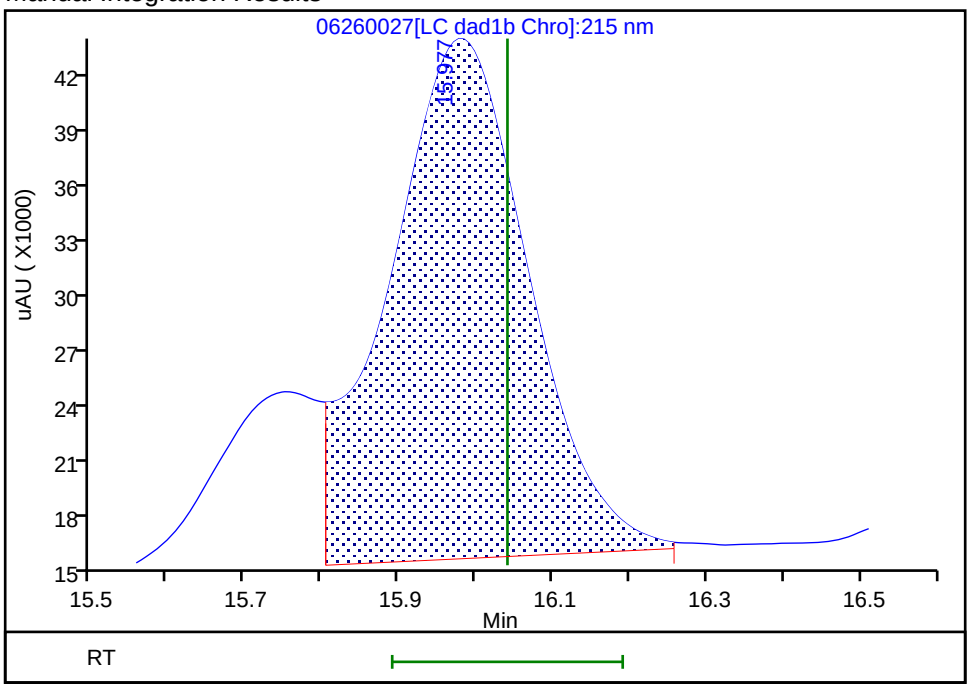
Processing Integration Results

RT: 15.98
Area: 247717
Amount: 1.953553
Amount Units: ug/ml



Manual Integration Results

RT: 15.98
Area: 351690
Amount: 2.773508
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:12:04
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

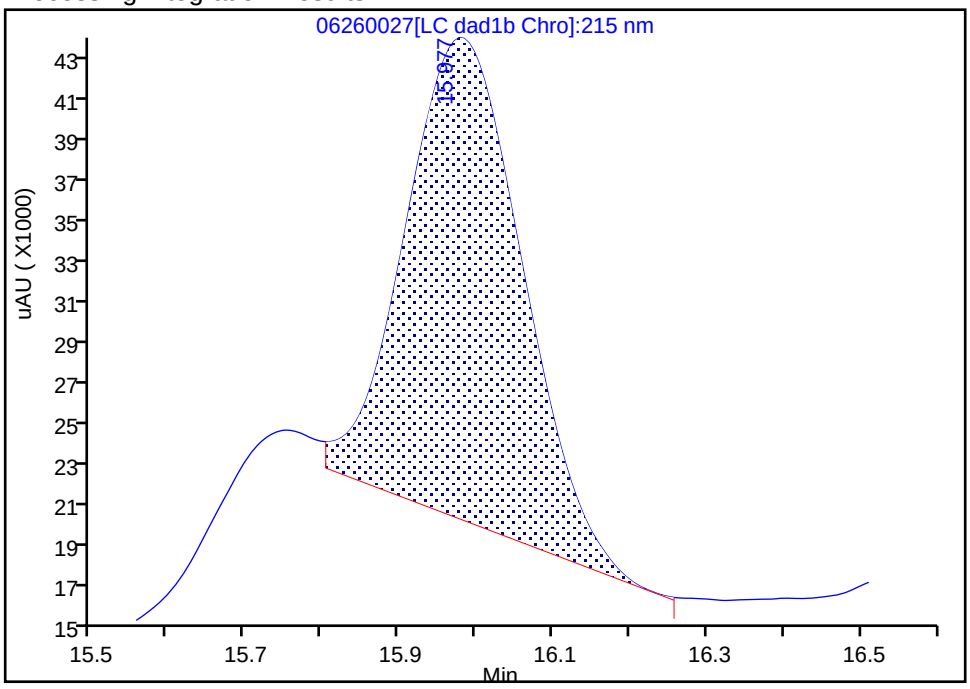
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d		
Injection Date:	27-Jun-2020 11:31:09	Instrument ID:	CHHPLC_G2_LUNA
Lims ID:	CCV		
Client ID:			
Operator ID:	JZ	ALS Bottle#:	7 Worklist Smp#: 27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330
Column:		Detector	LC DAD1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

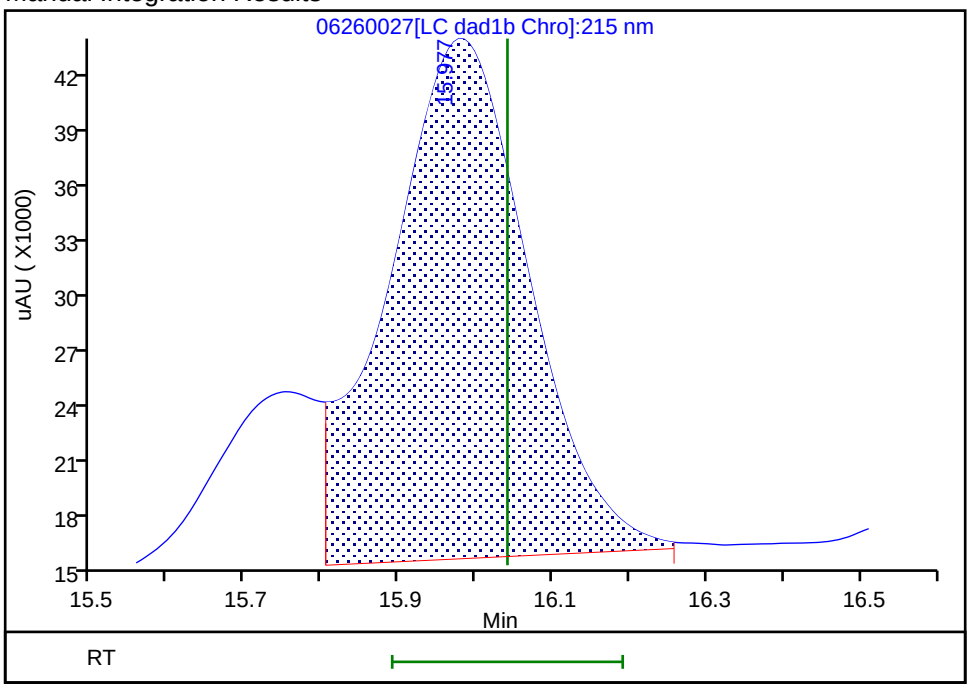
Processing Integration Results

RT: 15.98
Area: 247717
Amount: 1.953553
Amount Units: ug/ml



Manual Integration Results

RT: 15.98
Area: 351690
Amount: 2.773508
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:12:04
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

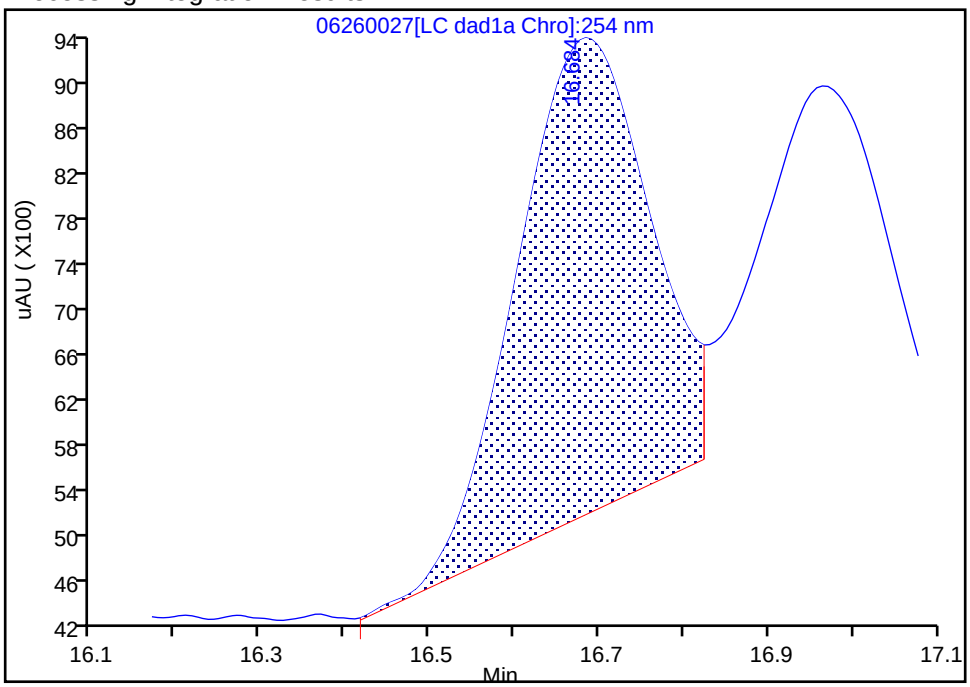
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d				
Injection Date:	27-Jun-2020 11:31:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

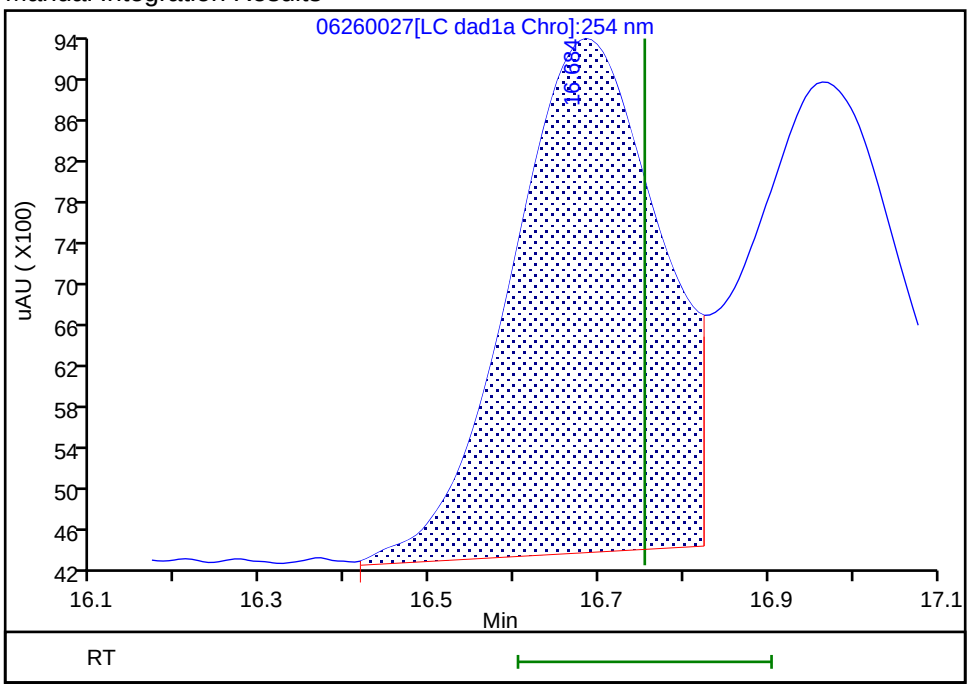
Processing Integration Results

RT: 16.68
Area: 45705
Amount: 0.167439
Amount Units: ug/ml



Manual Integration Results

RT: 16.68
Area: 61150
Amount: 0.224022
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:11:55

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

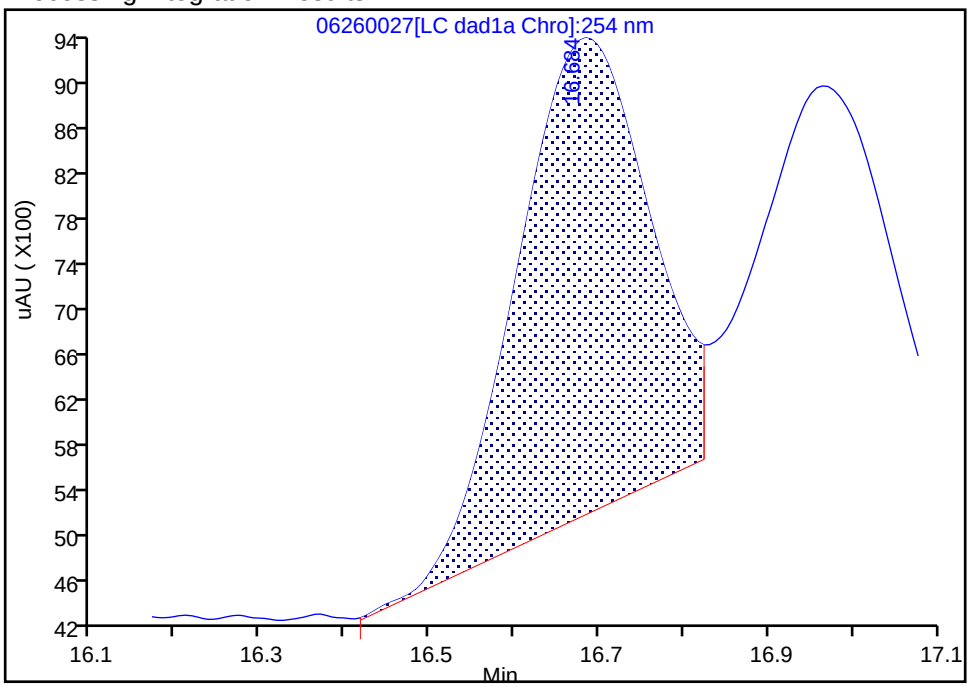
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d				
Injection Date:	27-Jun-2020 11:31:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

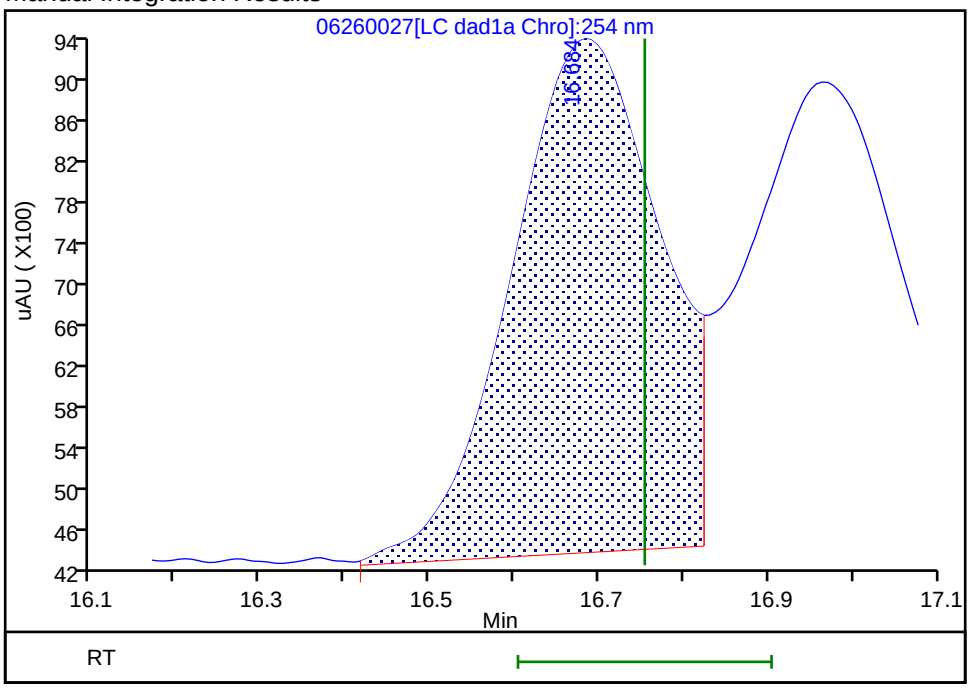
Processing Integration Results

RT: 16.68
Area: 45705
Amount: 0.167439
Amount Units: ug/ml



Manual Integration Results

RT: 16.68
Area: 61150
Amount: 0.224022
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:11:55

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

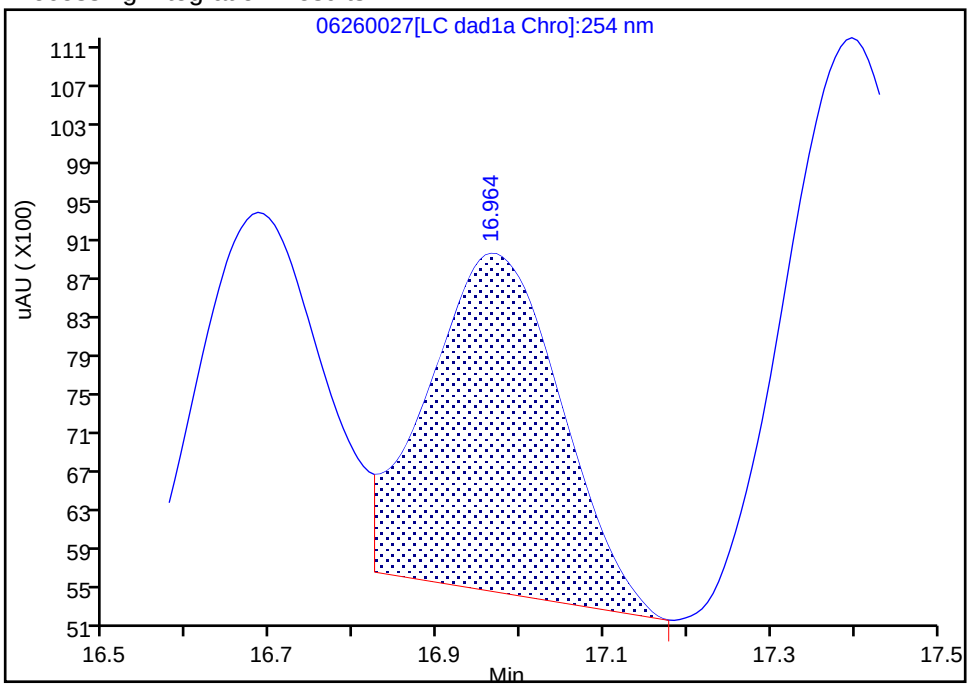
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d				
Injection Date:	27-Jun-2020 11:31:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

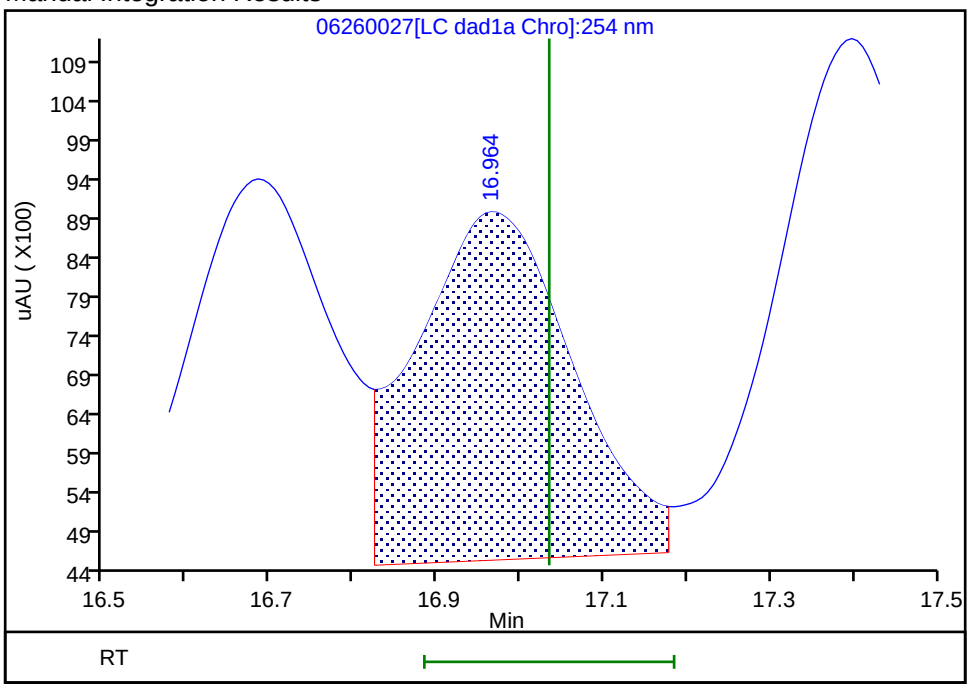
Processing Integration Results

RT: 16.96
Area: 38749
Amount: 0.160863
Amount Units: ug/ml



Manual Integration Results

RT: 16.96
Area: 58179
Amount: 0.241526
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:11:55
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

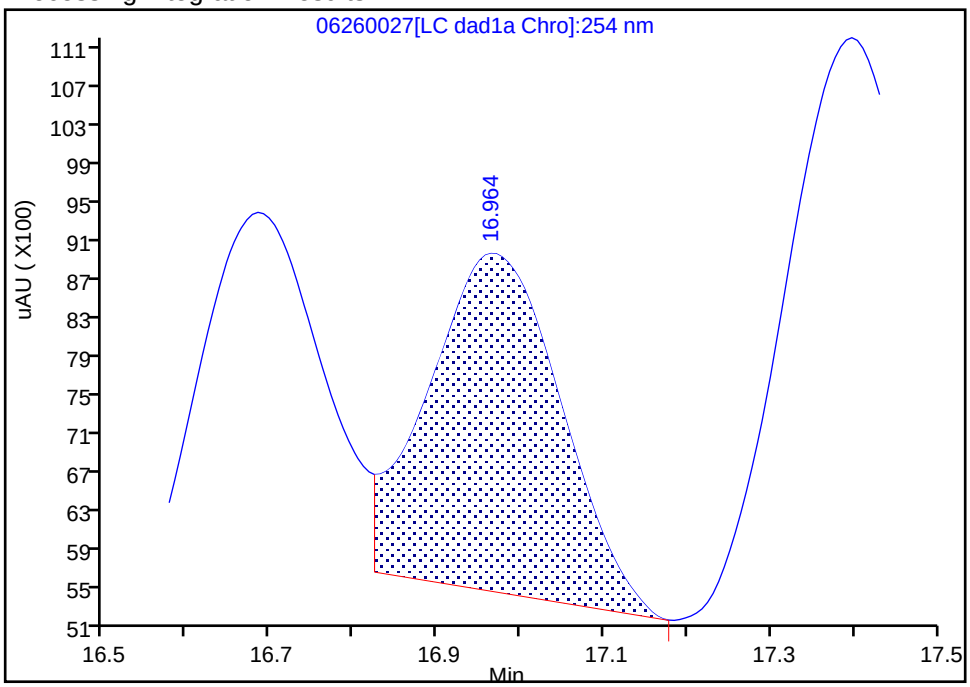
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d				
Injection Date:	27-Jun-2020 11:31:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

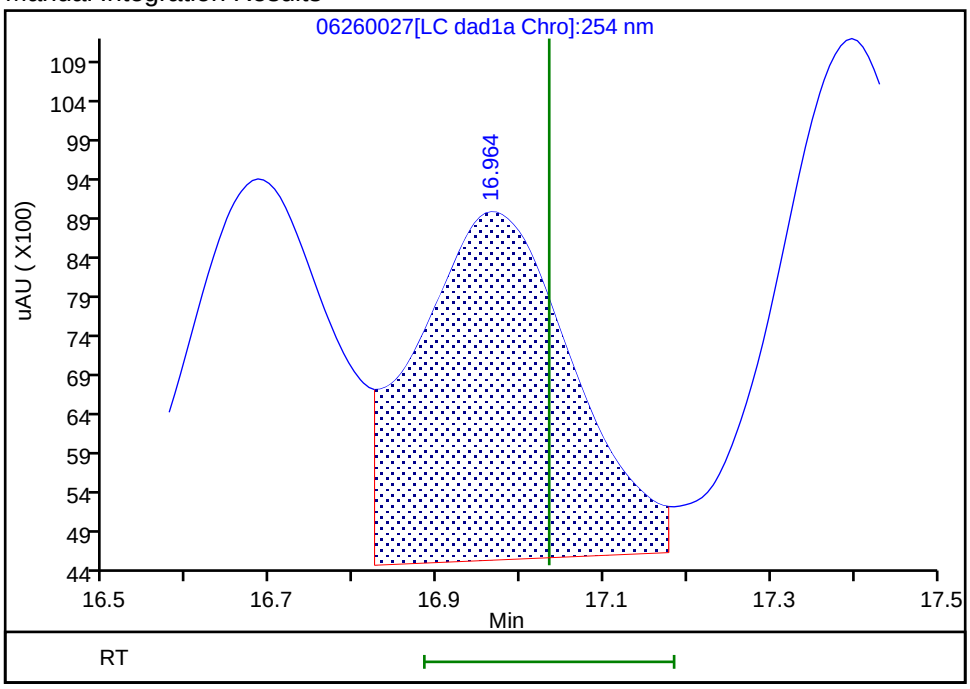
Processing Integration Results

RT: 16.96
Area: 38749
Amount: 0.160863
Amount Units: ug/ml



Manual Integration Results

RT: 16.96
Area: 58179
Amount: 0.241526
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:11:55
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

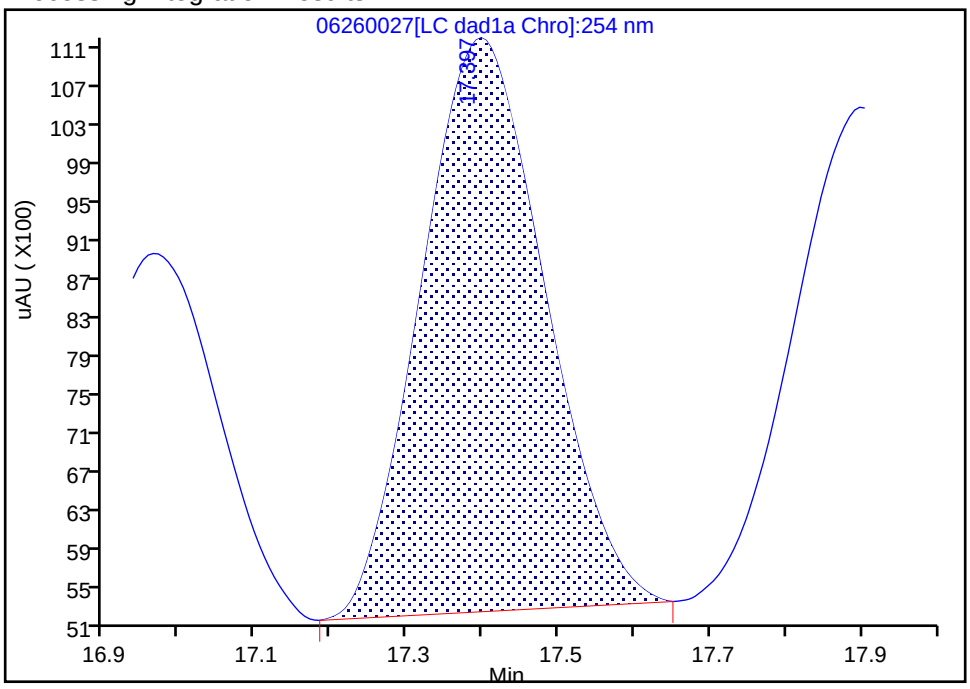
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d
Injection Date: 27-Jun-2020 11:31:09 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 27
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

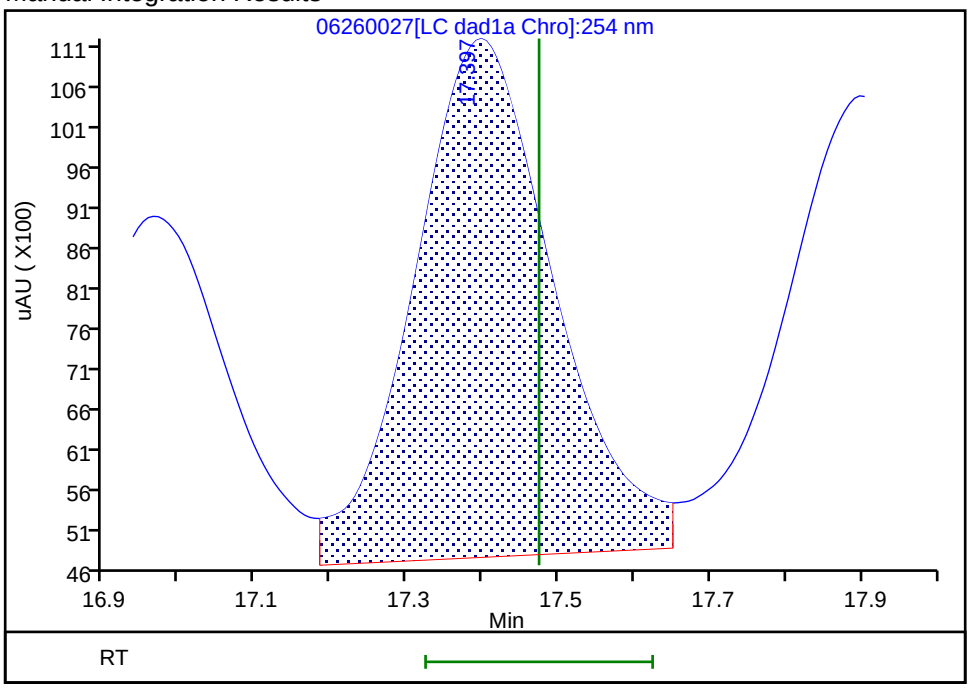
Processing Integration Results

RT: 17.40
Area: 67132
Amount: 0.194453
Amount Units: ug/ml



Manual Integration Results

RT: 17.40
Area: 83204
Amount: 0.241007
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:11:55
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

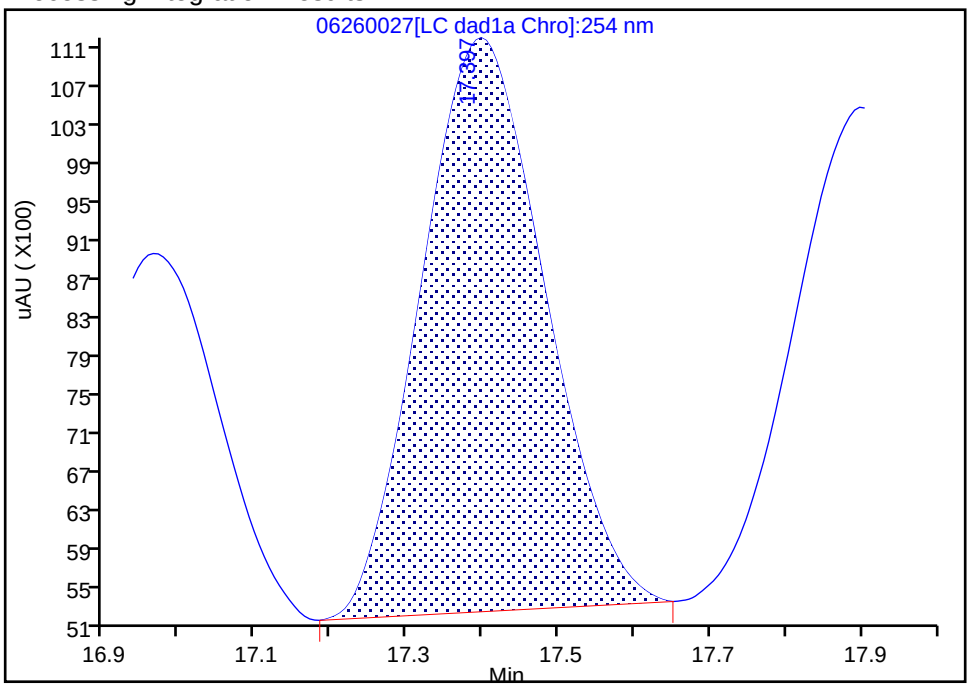
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d				
Injection Date:	27-Jun-2020 11:31:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

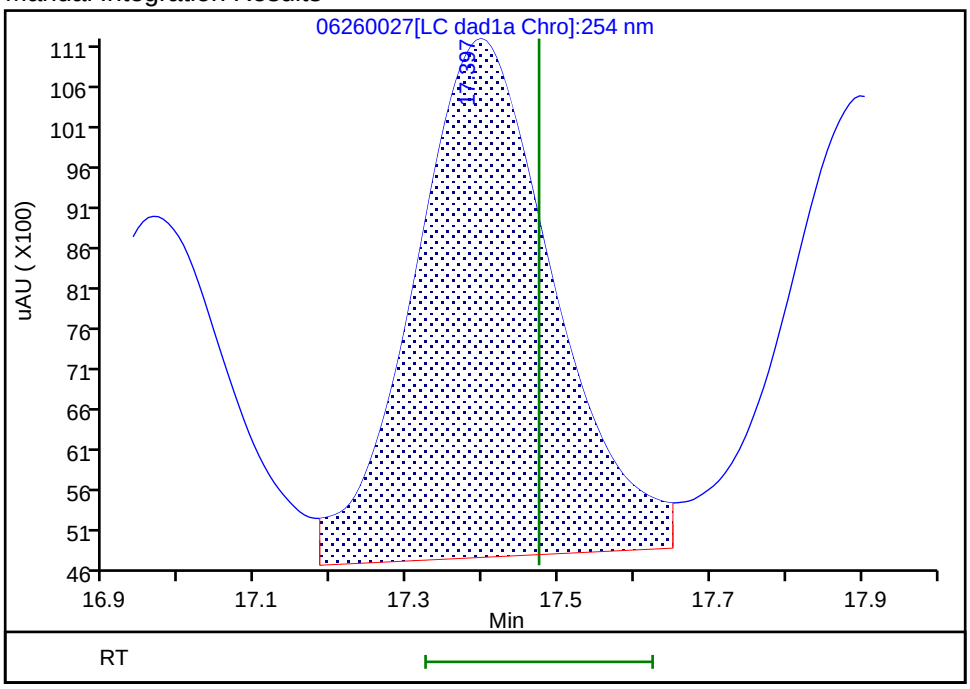
Processing Integration Results

RT: 17.40
Area: 67132
Amount: 0.194453
Amount Units: ug/ml



Manual Integration Results

RT: 17.40
Area: 83204
Amount: 0.241007
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:11:55
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

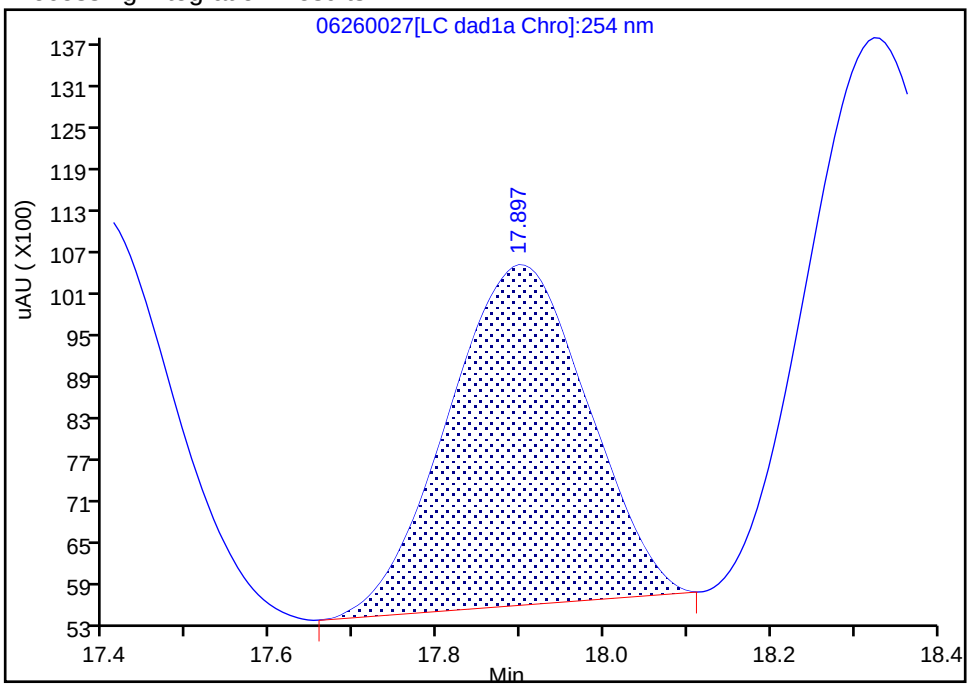
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d
Injection Date: 27-Jun-2020 11:31:09 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 27
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

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

Signal: 1

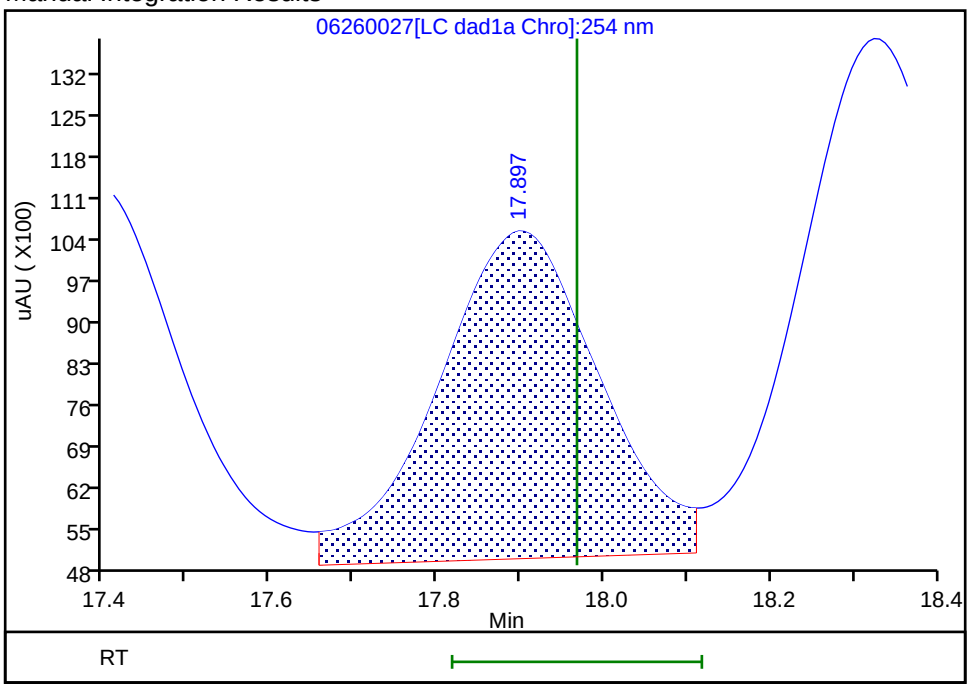
Processing Integration Results

RT: 17.90
Area: 56794
Amount: 0.190375
Amount Units: ug/ml



Manual Integration Results

RT: 17.90
Area: 74733
Amount: 0.250507
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:11:55
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

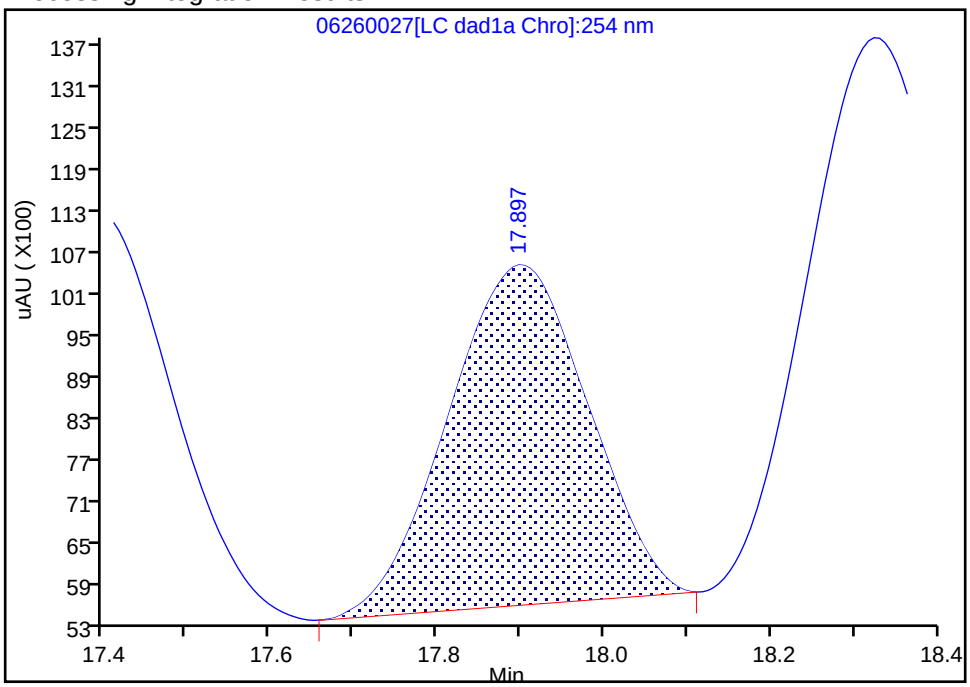
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d				
Injection Date:	27-Jun-2020 11:31:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

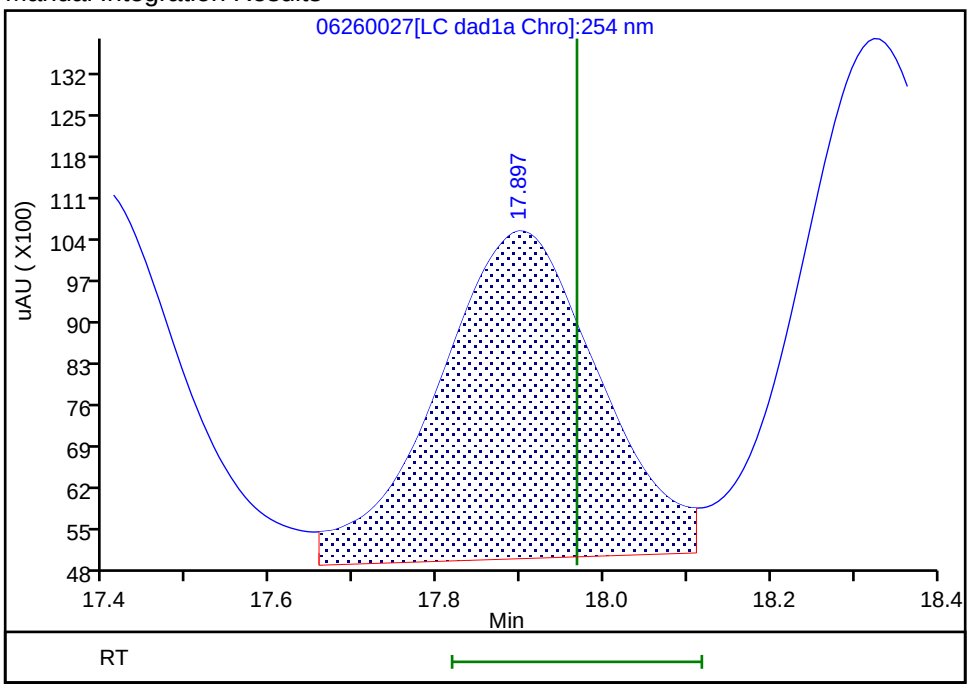
Processing Integration Results

RT: 17.90
Area: 56794
Amount: 0.190375
Amount Units: ug/ml



Manual Integration Results

RT: 17.90
Area: 74733
Amount: 0.250507
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:11:55
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

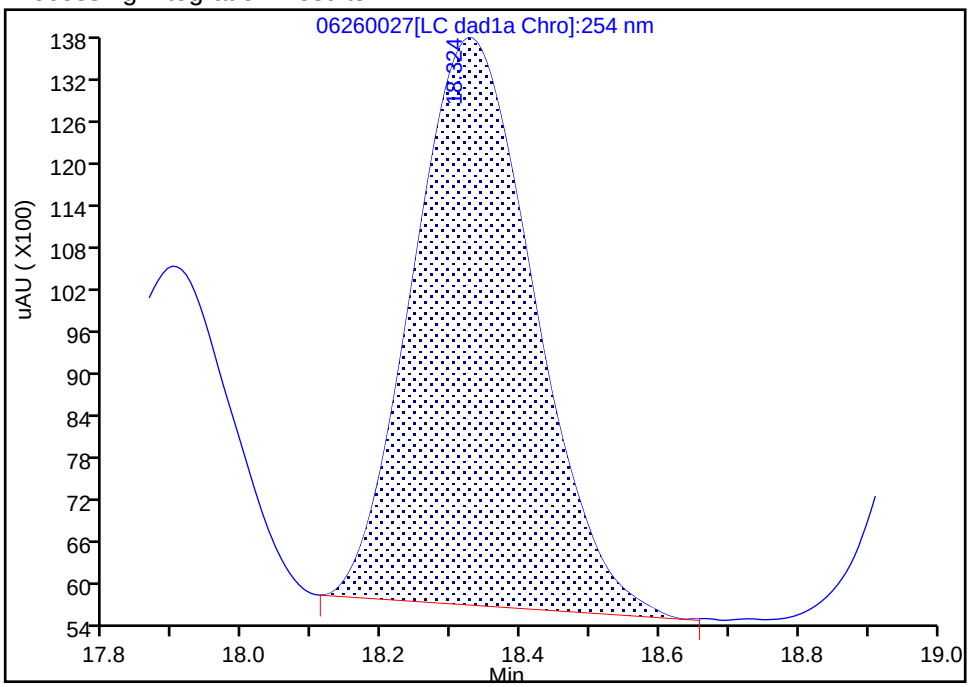
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d				
Injection Date:	27-Jun-2020 11:31:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

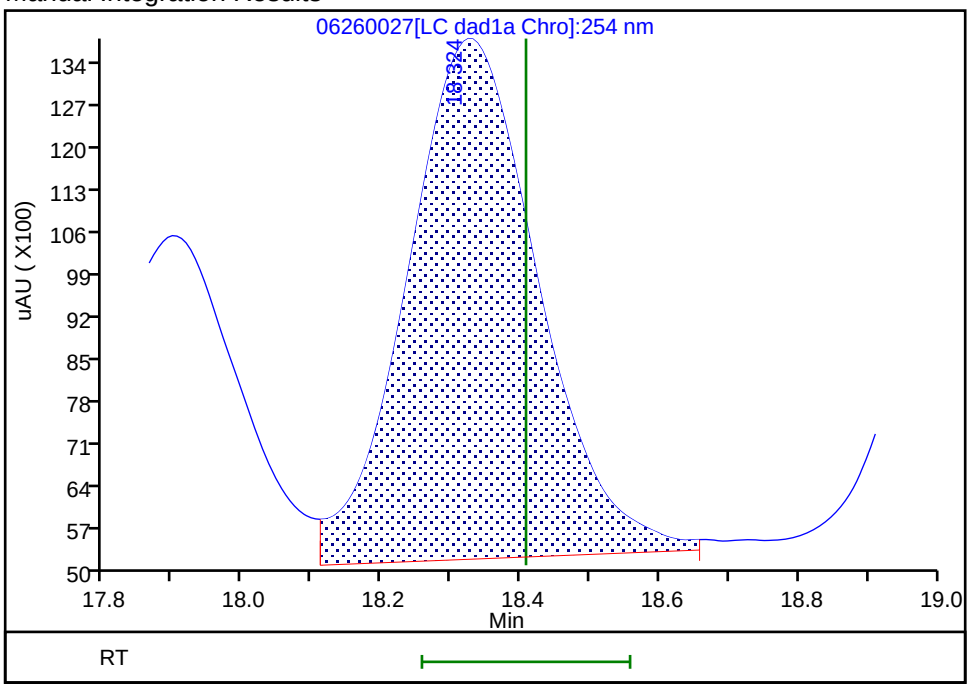
Processing Integration Results

RT: 18.32
Area: 98167
Amount: 0.211016
Amount Units: ug/ml



Manual Integration Results

RT: 18.32
Area: 113026
Amount: 0.242956
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:11:55

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

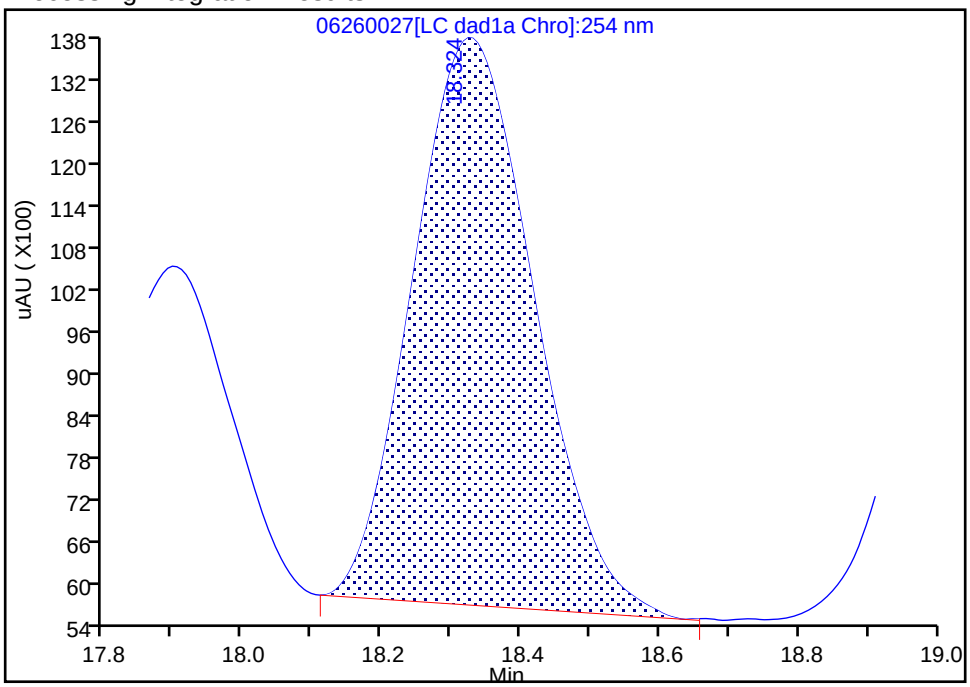
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d				
Injection Date:	27-Jun-2020 11:31:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

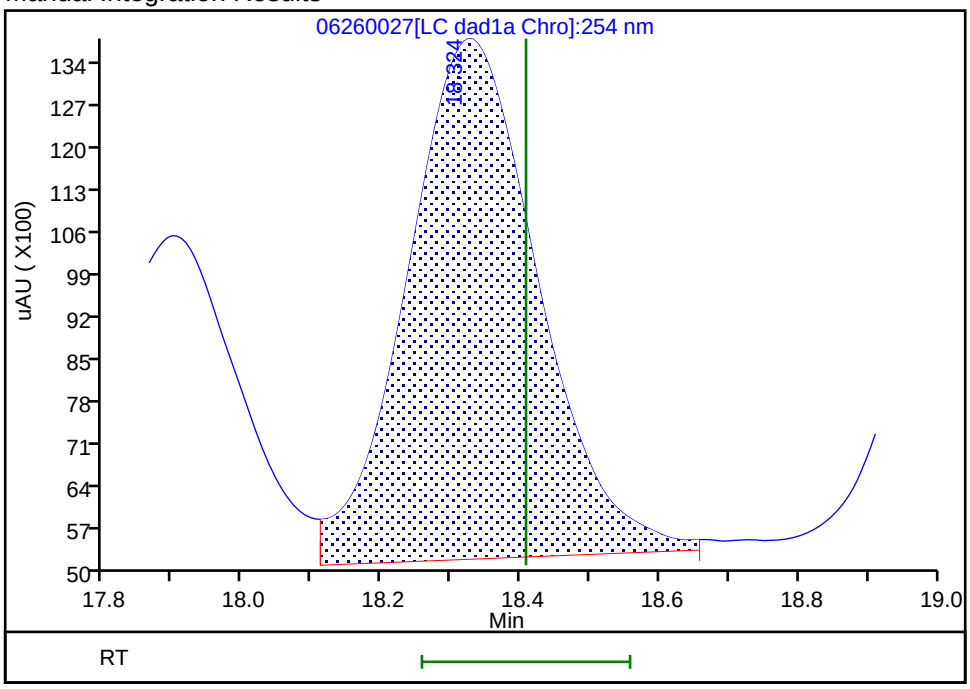
Processing Integration Results

RT: 18.32
Area: 98167
Amount: 0.211016
Amount Units: ug/ml



Manual Integration Results

RT: 18.32
Area: 113026
Amount: 0.242956
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:11:55

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

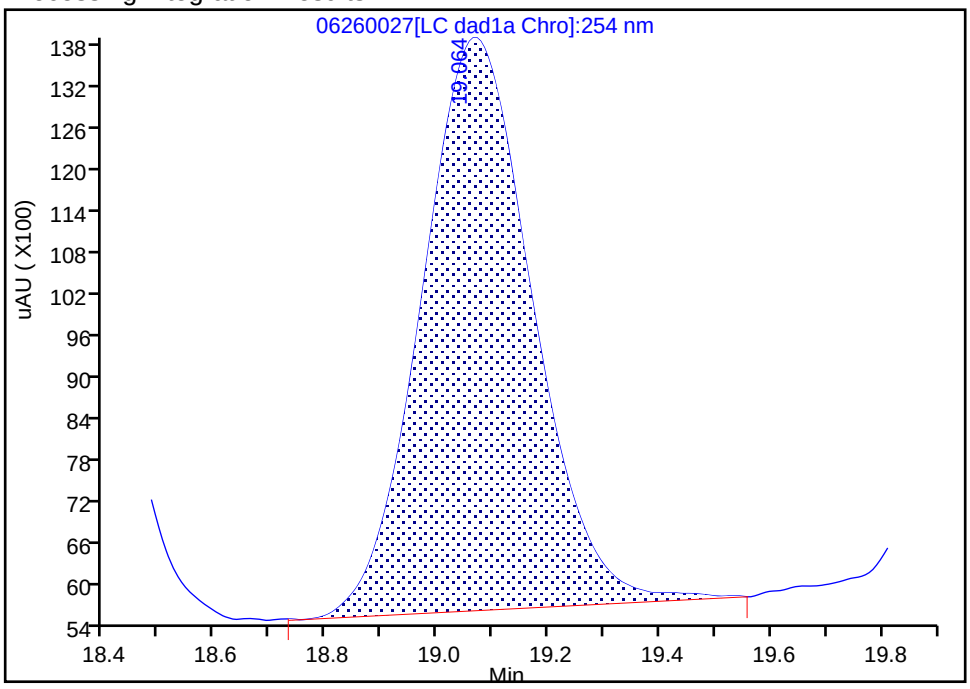
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d
Injection Date: 27-Jun-2020 11:31:09 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 27
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

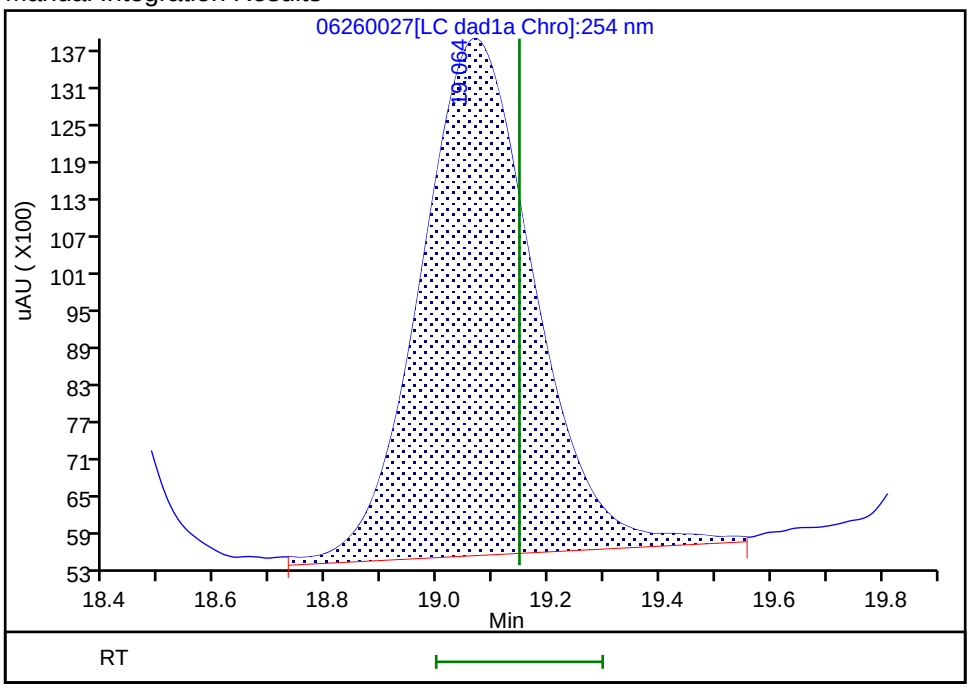
Processing Integration Results

RT: 19.06
Area: 114412
Amount: 0.242167
Amount Units: ug/ml



Manual Integration Results

RT: 19.06
Area: 119074
Amount: 0.252035
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:11:55
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

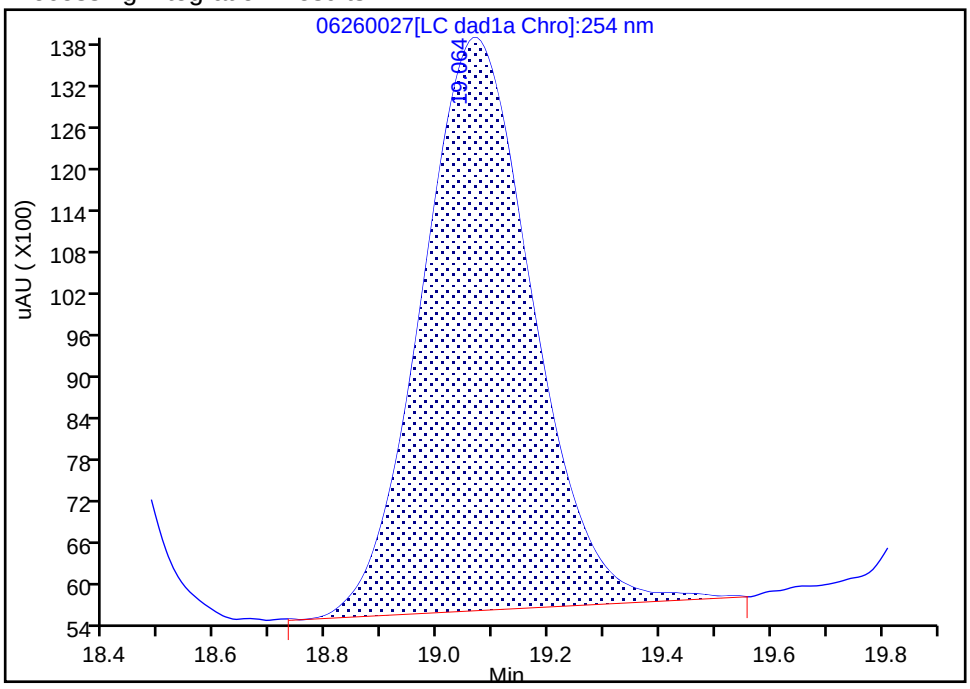
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d				
Injection Date:	27-Jun-2020 11:31:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

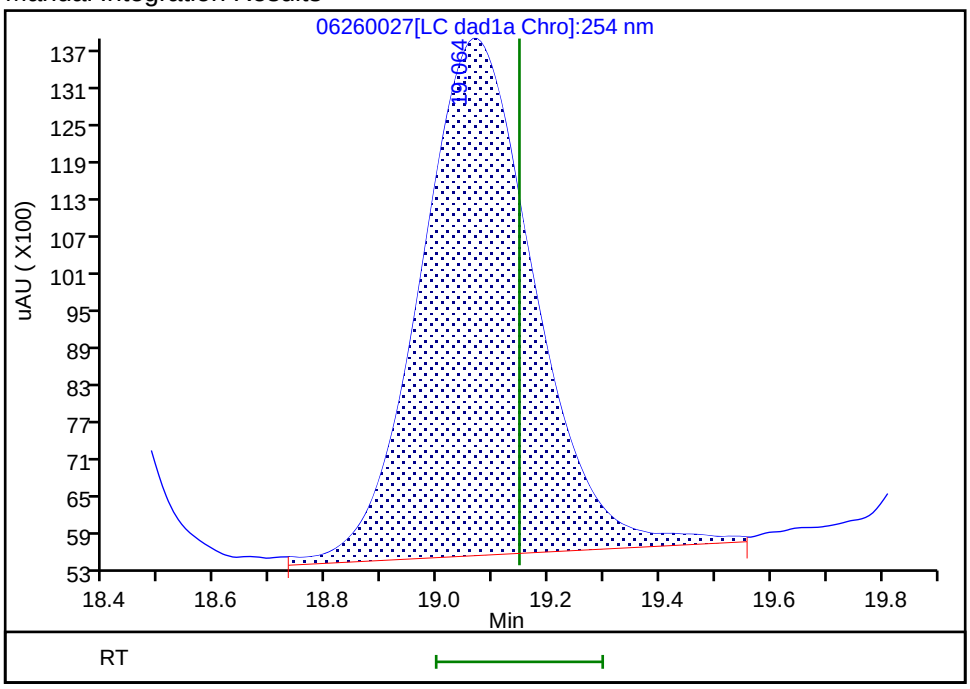
Processing Integration Results

RT: 19.06
Area: 114412
Amount: 0.242167
Amount Units: ug/ml



Manual Integration Results

RT: 19.06
Area: 119074
Amount: 0.252035
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:11:55

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

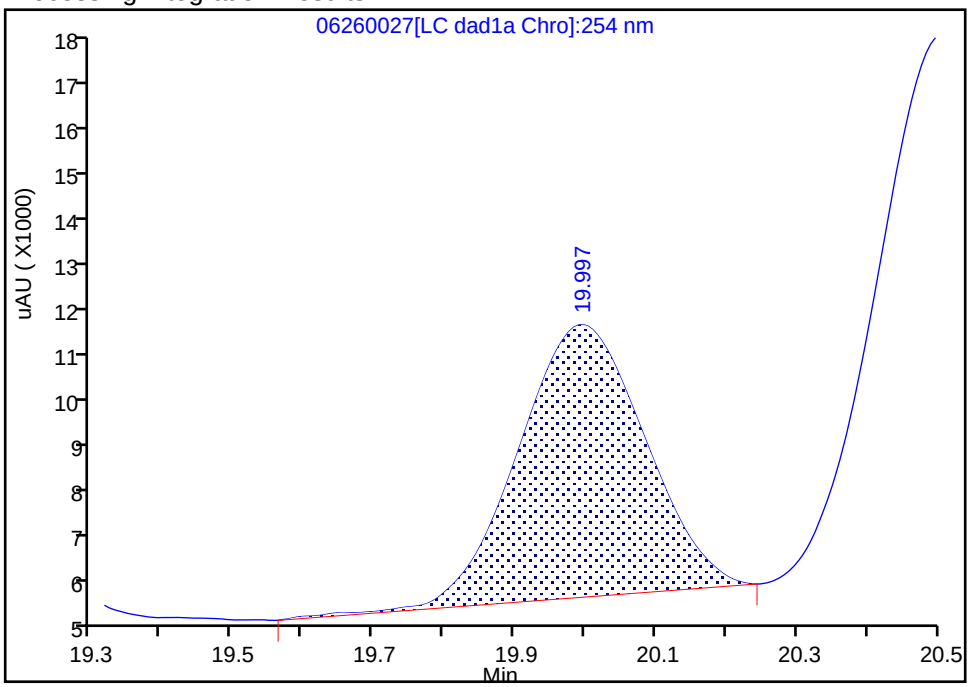
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d				
Injection Date:	27-Jun-2020 11:31:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

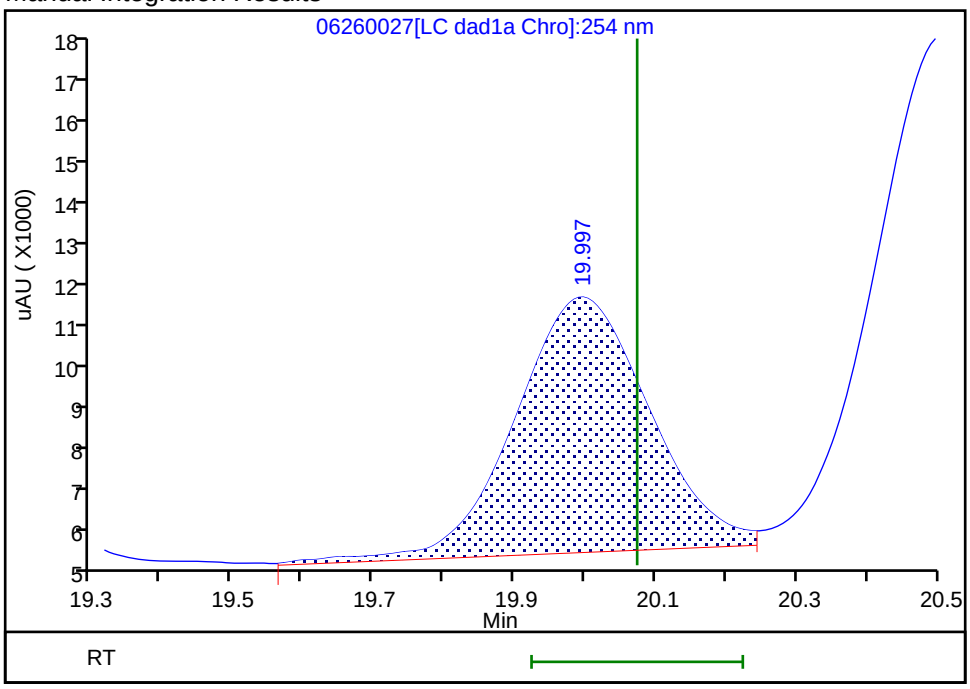
Processing Integration Results

RT: 20.00
Area: 68347
Amount: 0.220979
Amount Units: ug/ml



Manual Integration Results

RT: 20.00
Area: 75670
Amount: 0.246299
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:11:58
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

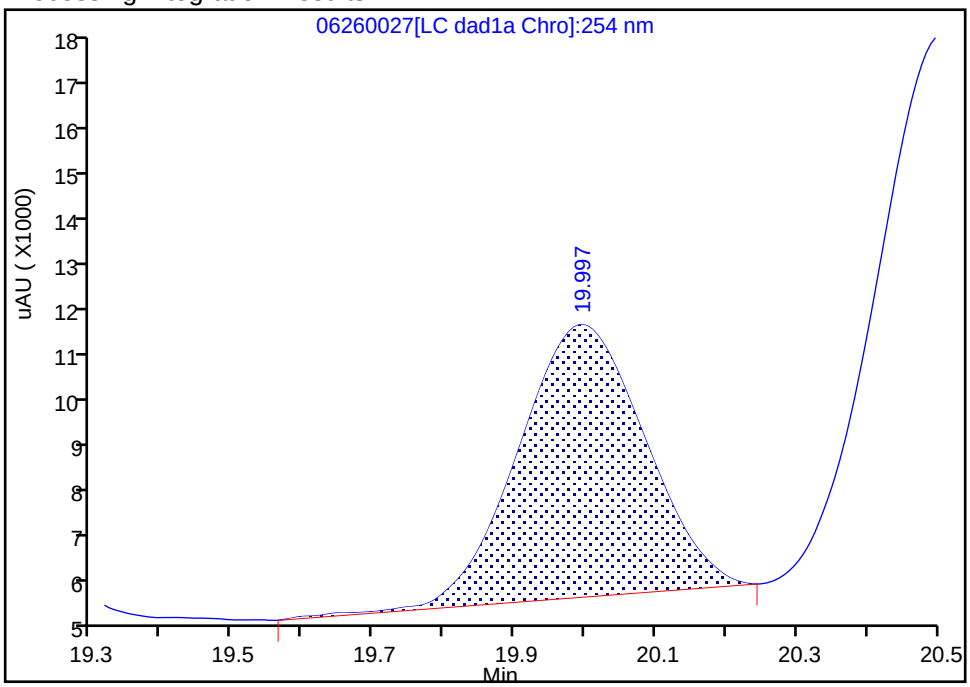
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d				
Injection Date:	27-Jun-2020 11:31:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

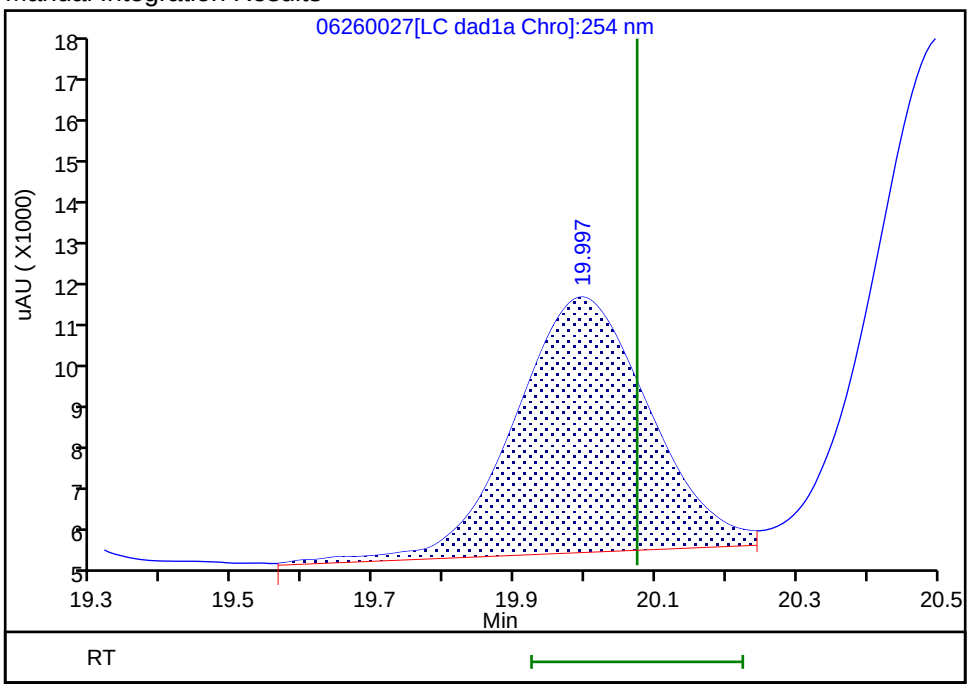
Processing Integration Results

RT: 20.00
Area: 68347
Amount: 0.220979
Amount Units: ug/ml



Manual Integration Results

RT: 20.00
Area: 75670
Amount: 0.246299
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:11:58
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

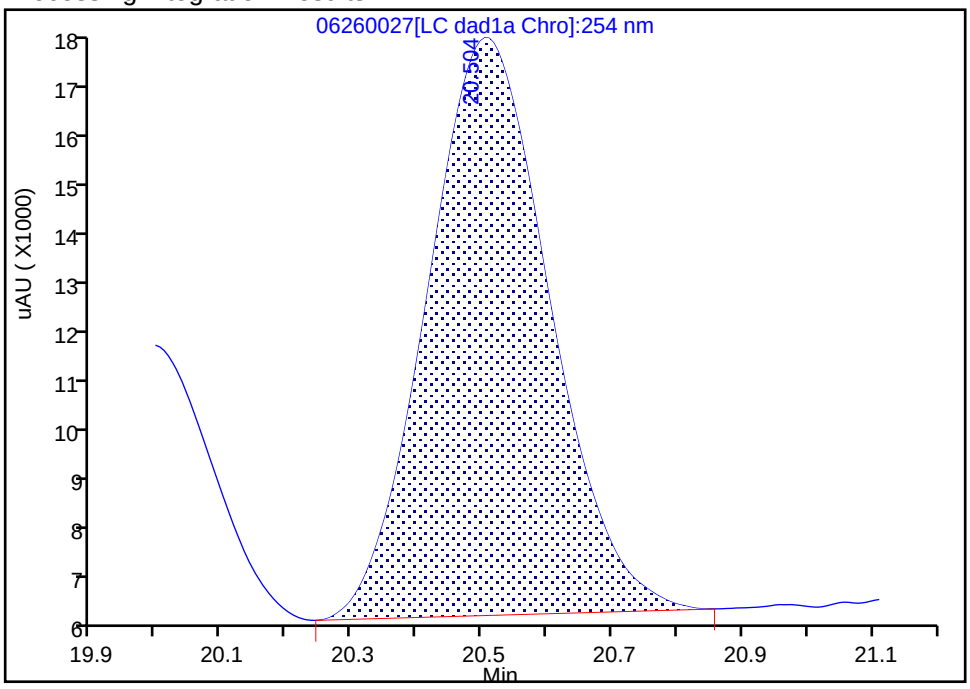
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d				
Injection Date:	27-Jun-2020 11:31:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

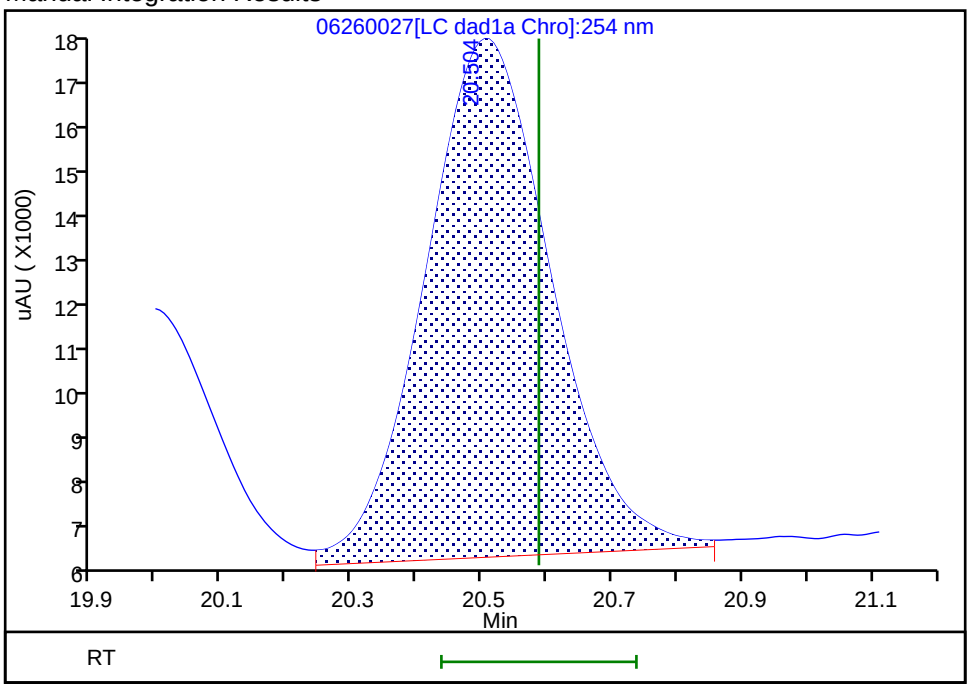
Processing Integration Results

RT: 20.50
Area: 142779
Amount: 0.223053
Amount Units: ug/ml



Manual Integration Results

RT: 20.50
Area: 151206
Amount: 0.236218
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:11:58
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

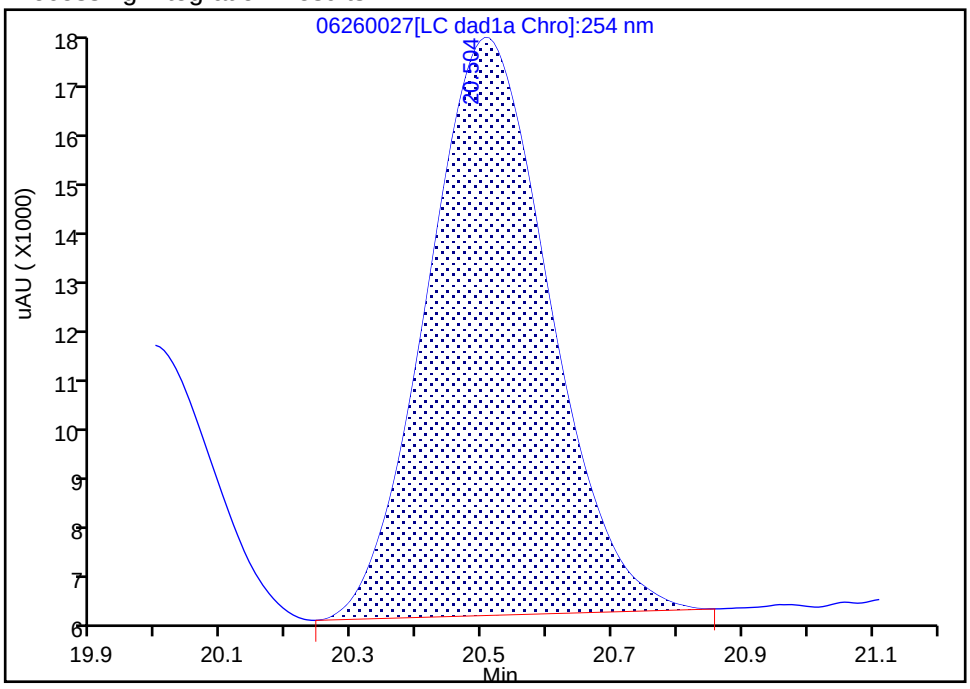
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260027.d				
Injection Date:	27-Jun-2020 11:31:09	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

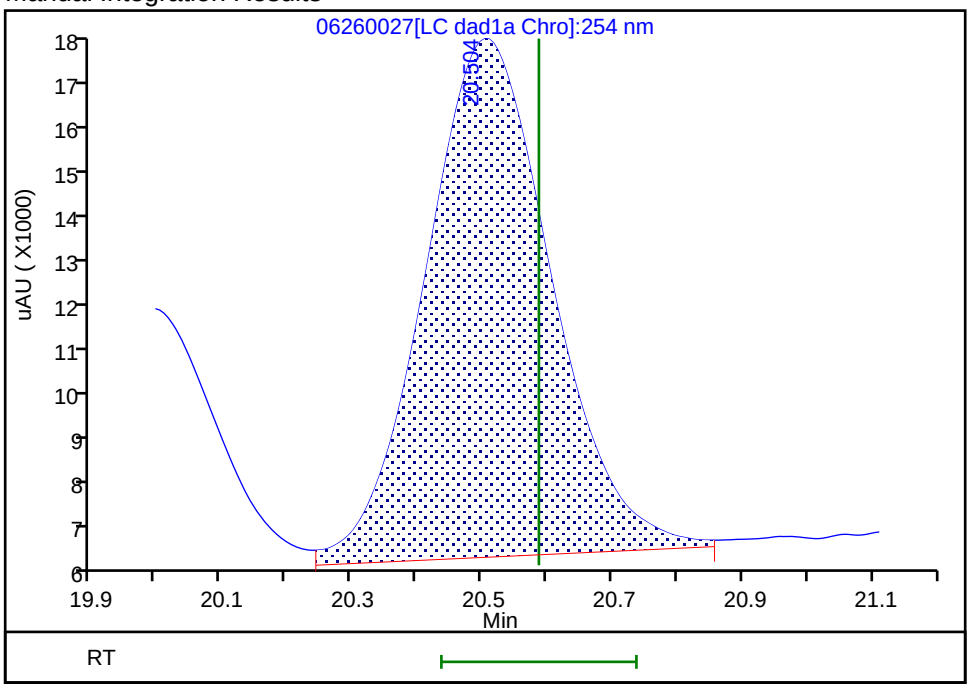
Processing Integration Results

RT: 20.50
Area: 142779
Amount: 0.223053
Amount Units: ug/ml



Manual Integration Results

RT: 20.50
Area: 151206
Amount: 0.236218
Amount Units: ug/ml



Reviewer: zhangji, 27-Jun-2020 12:11:58
Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500326/28 Calibration Date: 06/27/2020 12:06

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 06260028.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	435816	404492		232	250	-7.2	15.0
DNX	Ave	321206	308683		240	250	-3.9	15.0
MNX	Lin2		284398		291	292	-0.4	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500327/28 Calibration Date: 06/27/2020 12:06

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 06260028.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	435816	404492		232	250	-7.2	15.0
DNX	Ave	321206	308683		240	250	-3.9	15.0
MNX	Lin2		284398		291	292	-0.4	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500326/28 Calibration Date: 06/27/2020 12:06

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 06260028.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.49	5.38	5.68
DNX	6.33	6.22	6.52
MNX	7.87	7.77	8.07

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500327/28 Calibration Date: 06/27/2020 12:06

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 06260028.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.49	5.38	5.68
DNX	6.33	6.22	6.52
MNX	7.87	7.77	8.07

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260028.D
Lims ID: CCV DMT
Client ID:
Sample Type: CCV
Inject. Date: 27-Jun-2020 12:06:10 ALS Bottle#: 8 Worklist Smp#: 28
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV DMT
Misc. Info.: 280-0092796-028
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub13

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 15:28:06 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1036

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.492	5.525	-0.033	101224	0.2503	0.2323	
4 DNX	1	6.332	6.365	-0.033	77248	0.2503	0.2405	
7 MNX	1	7.872	7.919	-0.047	82973	0.2918	0.2906	

Reagents:

8330 DMT_00006 Amount Added: 12.50 Units: uL

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260028.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	27-Jun-2020 12:06:10	ALS Bottle#:	8	Worklist Smp#:	28
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092796-028				
Operator ID:	JZ	Instrument ID:	CHHPLC_G2_LUNA		
Sublist:	chrom-G2_8330_Luna*sub13				
Method:	\\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 15:28:06	Calib Date:	15-May-2020 02:11:20		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D				
Column 1 :	Luna-Phenyl hexyl (4.60 mm)		Det: LC DAD1A, 254 nm		
Process Host:	CTX1036				

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.492	5.525	-0.033	101224	0.2503	0.2323	
4 DNX	1	6.332	6.365	-0.033	77248	0.2503	0.2405	
7 MNX	1	7.872	7.919	-0.047	82973	0.2918	0.2906	

Reagents:

8330 DMT_00006 Amount Added: 12.50 Units: uL

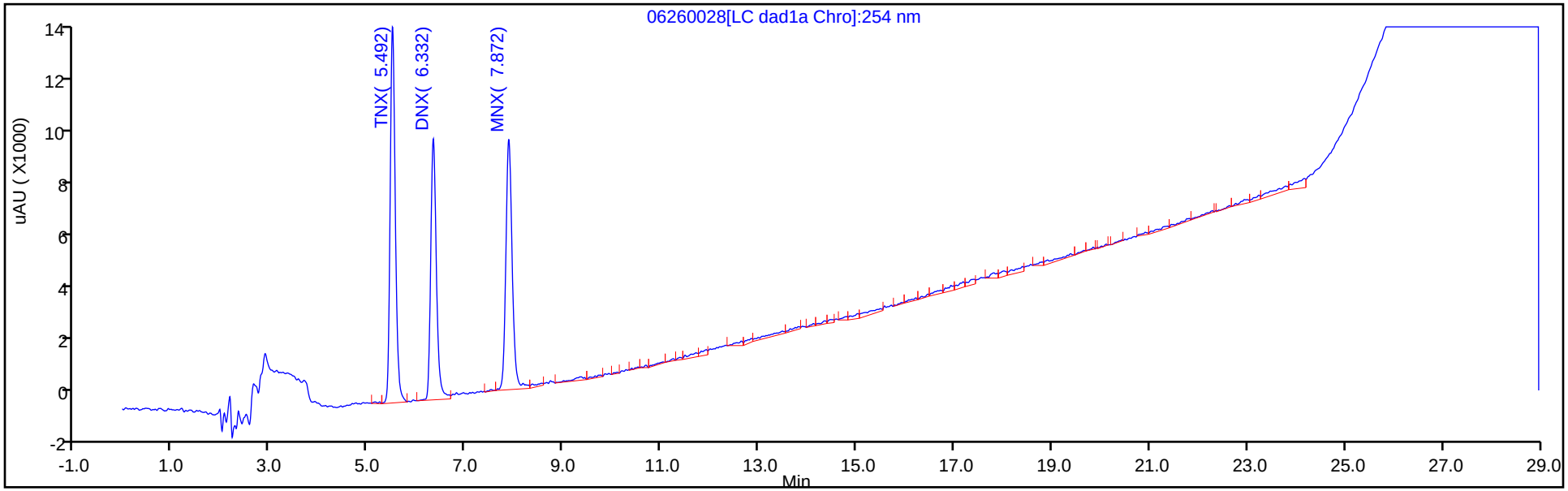
Report Date: 27-Jun-2020 15:28:07 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

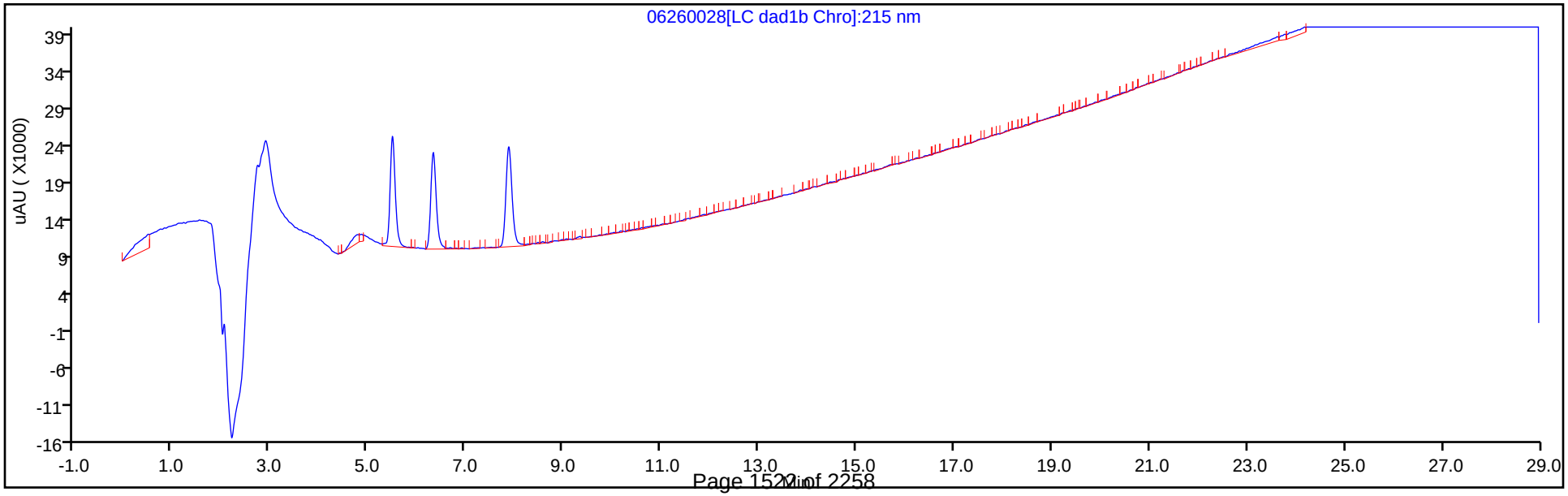
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260028.d

Injection Date:	27-Jun-2020 12:06:10	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	28
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



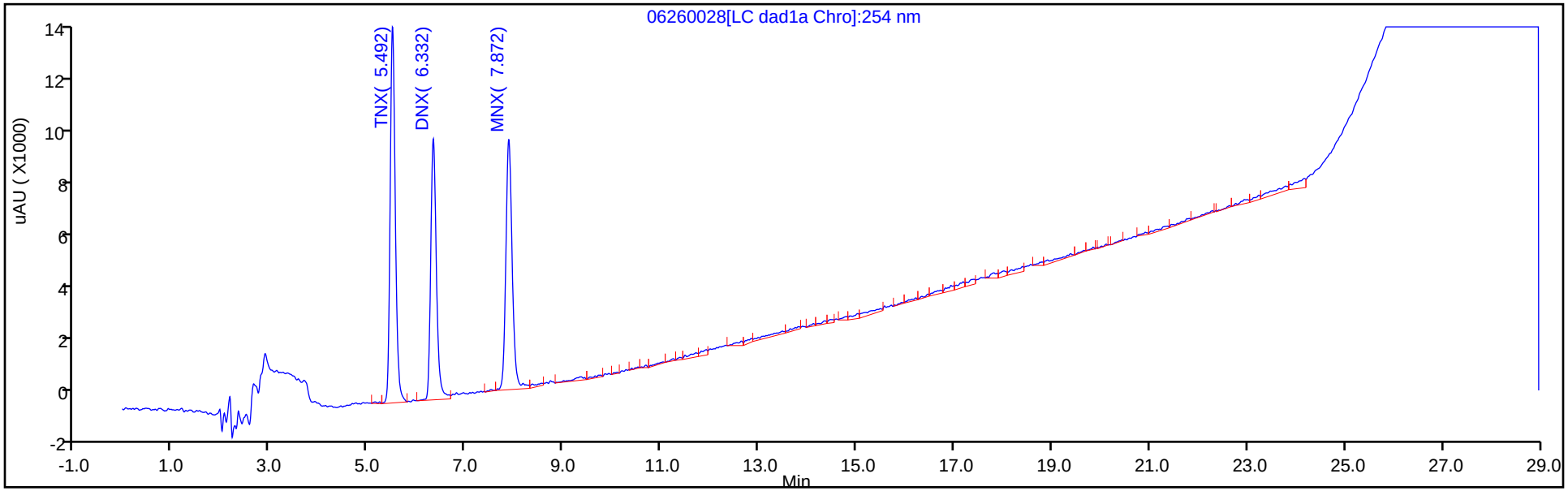
Report Date: 27-Jun-2020 15:28:07 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

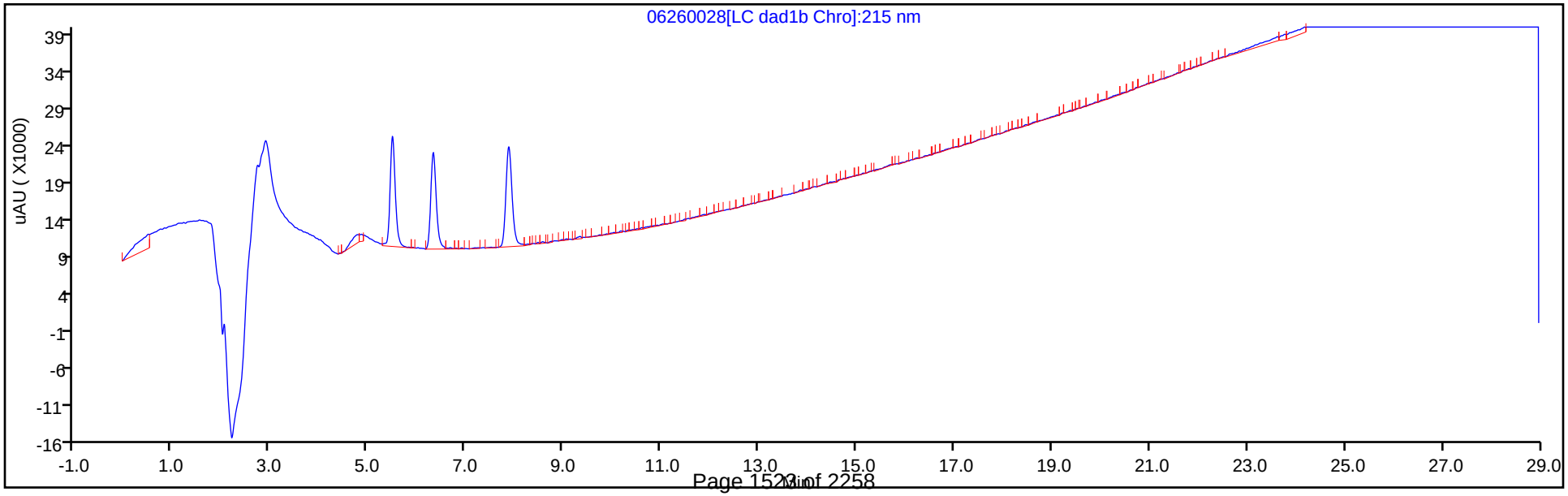
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260028.d

Injection Date:	27-Jun-2020 12:06:10	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	28
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500327/38 Calibration Date: 06/27/2020 17:55

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 06260038.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin2		181748		227	250	-9.4	15.0
Picric acid	Ave	193810	178376		230	250	-8.0	15.0
RDX	Ave	244360	219192		224	250	-10.3	15.0
Nitrobenzene	Ave	439227	388032		222	251	-11.7	15.0
1,3-Dinitrobenzene	Ave	674189	662994		246	251	-1.7	15.0
Nitroglycerin	Ave	126803	143746		2830	2500	13.4	15.0
2-Nitrotoluene	Ave	272965	242376		222	250	-11.2	15.0
4-Nitrotoluene	Ave	240881	224735		234	251	-6.7	15.0
4-Amino-2,6-dinitrotoluene	Ave	345235	323285		234	250	-6.4	15.0
3-Nitrotoluene	Ave	298327	270402		227	250	-9.4	15.0
2-Amino-4,6-dinitrotoluene	Ave	465211	454092		245	251	-2.4	15.0
1,3,5-Trinitrobenzene	Ave	472451	470607		250	251	-0.4	15.0
2,6-Dinitrotoluene	Lin2		306645		251	251	-0.0	15.0
2,4-Dinitrotoluene	Ave	640113	617857		242	251	-3.5	15.0
Tetryl	Ave	368678	352375		239	251	-4.4	15.0
2,4,6-Trinitrotoluene	Lin1		394375		239	251	-4.9	15.0
PETN	Lin1		141720		2530	2500	1.1	15.0
1,2-Dinitrobenzene	Lin1		289464		254	250	1.8	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500327/38 Calibration Date: 06/27/2020 17:55

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 06260038.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	7.14	7.00	7.30
Picric acid	8.36	8.23	8.53
RDX	9.36	9.22	9.52
Nitrobenzene	12.27	12.12	12.42
1,3-Dinitrobenzene	15.80	15.66	15.96
Nitroglycerin	16.03	15.89	16.19
2-Nitrotoluene	16.74	16.60	16.90
4-Nitrotoluene	17.02	16.88	17.18
4-Amino-2,6-dinitrotoluene	17.45	17.32	17.62
3-Nitrotoluene	17.96	17.82	18.12
2-Amino-4,6-dinitrotoluene	18.38	18.26	18.56
1,3,5-Trinitrobenzene	19.13	19.00	19.30
2,6-Dinitrotoluene	20.06	19.92	20.22
2,4-Dinitrotoluene	20.57	20.44	20.74
Tetryl	23.87	23.74	24.04
2,4,6-Trinitrotoluene	24.90	24.76	25.06
PETN	25.44	25.28	25.58
1,2-Dinitrobenzene	13.27	13.13	13.43

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260038.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 27-Jun-2020 17:55:52 ALS Bottle#: 7 Worklist Smp#: 38
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 280-0092796-038
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 01-Jul-2020 16:56:03 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1062

First Level Reviewer: zhangji Date: 01-Jul-2020 16:55:12

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 2,6-diamino-4-nitrotoluene	1	4.443	4.447	-0.004	105123	0.2500	0.2449	
	2 2,4-diamino-6-nitrotoluene	1	4.976	4.981	-0.005	64996	0.2500	0.2501	
	6 HMX	1	7.136	7.154	-0.018	45437	0.2500	0.2266	
	5 2,4,6-Trinitrophenol	1	8.356	8.381	-0.025	44594	0.2500	0.2301	
	8 RDX	1	9.356	9.367	-0.011	54798	0.2500	0.2243	
	9 Nitrobenzene	1	12.269	12.274	-0.005	97396	0.2510	0.2217	M
$	10 1,2-Dinitrobenzene	1	13.269	13.281	-0.012	72366	0.2500	0.2544	M
	11 3,5-Dinitroaniline	1	15.196	15.214	-0.018	123114	0.2500	0.2481	M
	12 1,3-Dinitrobenzene	1	15.796	15.814	-0.018	166080	0.2505	0.2463	M
	13 Nitroglycerin	2	16.029	16.041	-0.012	359365	2.50	2.83	M
	14 o-Nitrotoluene	1	16.743	16.754	-0.011	60594	0.2500	0.2220	M
	15 p-Nitrotoluene	1	17.023	17.034	-0.011	56296	0.2505	0.2337	M
	16 4-Amino-2,6-dinitrotoluene	1	17.449	17.474	-0.025	80902	0.2503	0.2343	M
	17 m-Nitrotoluene	1	17.956	17.967	-0.011	67668	0.2503	0.2268	M
	18 2-Amino-4,6-dinitrotoluene	1	18.383	18.407	-0.024	113977	0.2510	0.2450	M
	19 1,3,5-Trinitrobenzene	1	19.129	19.147	-0.018	117887	0.2505	0.2495	M
	20 2,6-Dinitrotoluene	1	20.056	20.074	-0.018	76968	0.2510	0.2508	M
	21 2,4-Dinitrotoluene	1	20.569	20.587	-0.018	155082	0.2510	0.2423	M
	22 Tetryl	1	23.869	23.887	-0.018	88270	0.2505	0.2394	
	23 2,4,6-Trinitrotoluene	1	24.896	24.907	-0.011	98988	0.2510	0.2386	
	24 PETN	2	25.436	25.434	0.002	354299	2.50	2.53	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00064	Amount Added:	25.00	Units: uL
8330_ADDs_00027	Amount Added:	12.50	Units: uL

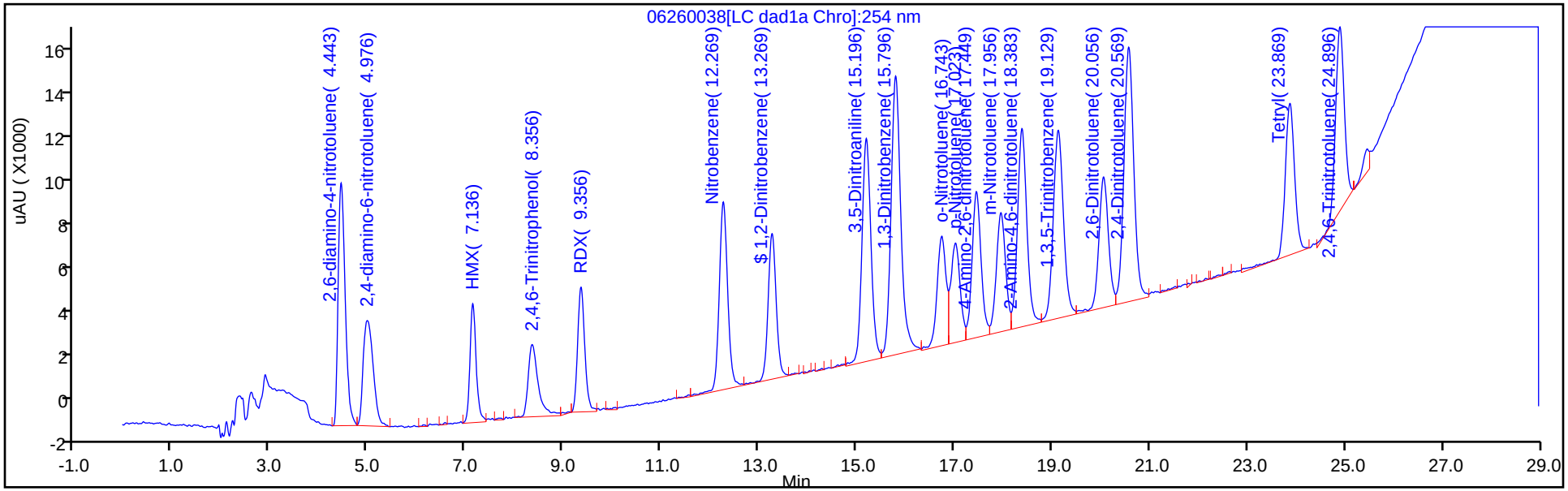
Report Date: 01-Jul-2020 16:56:04 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

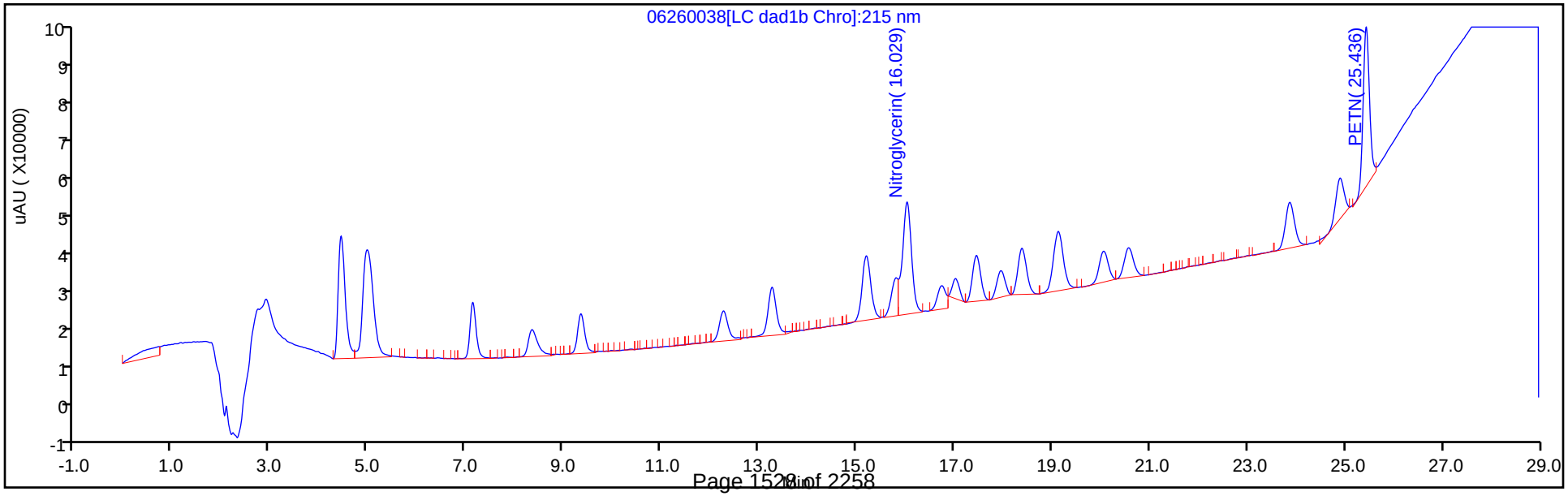
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260038.d

Injection Date:	27-Jun-2020 17:55:52	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV			Worklist Smp#:	38
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

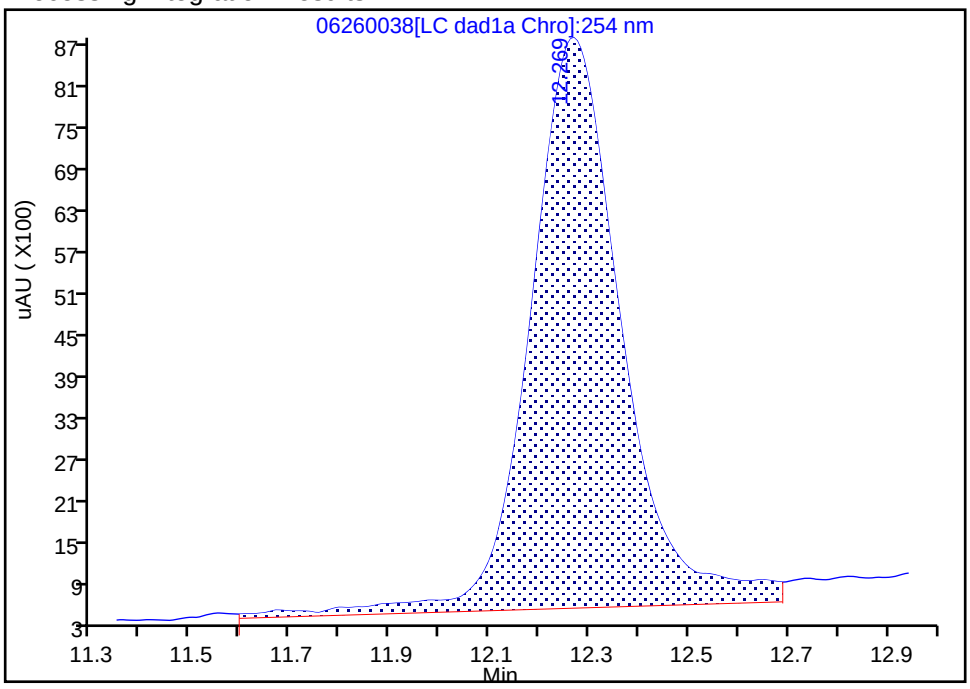
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260038.d				
Injection Date:	27-Jun-2020 17:55:52	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	38
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

9 Nitrobenzene, CAS: 98-95-3

Signal: 1

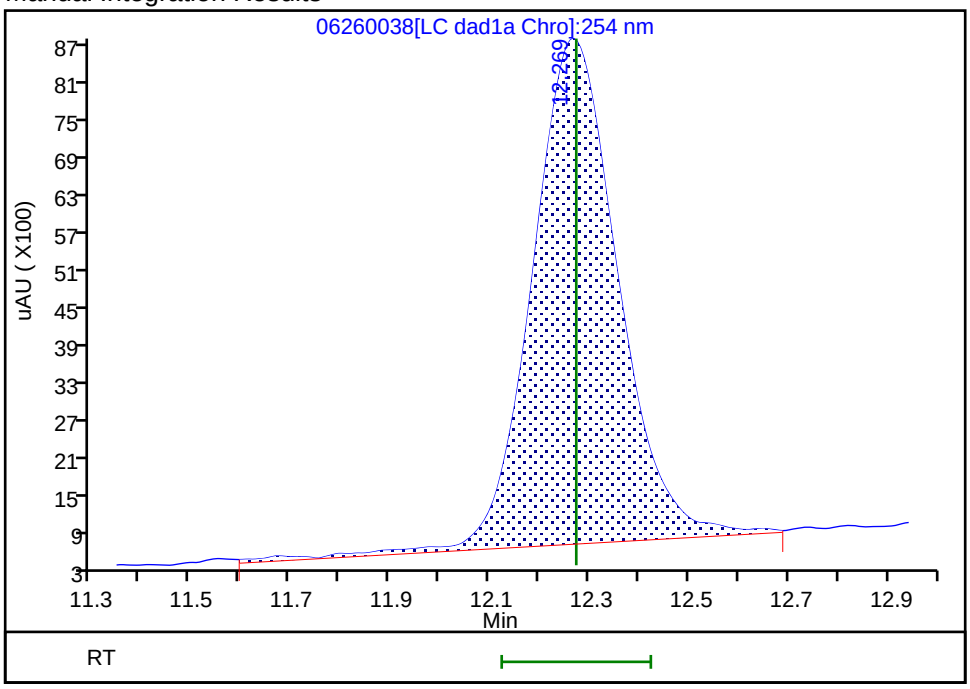
Processing Integration Results

RT: 12.27
Area: 105924
Amount: 0.241160
Amount Units: ug/ml



Manual Integration Results

RT: 12.27
Area: 97396
Amount: 0.221744
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 16:55:35
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

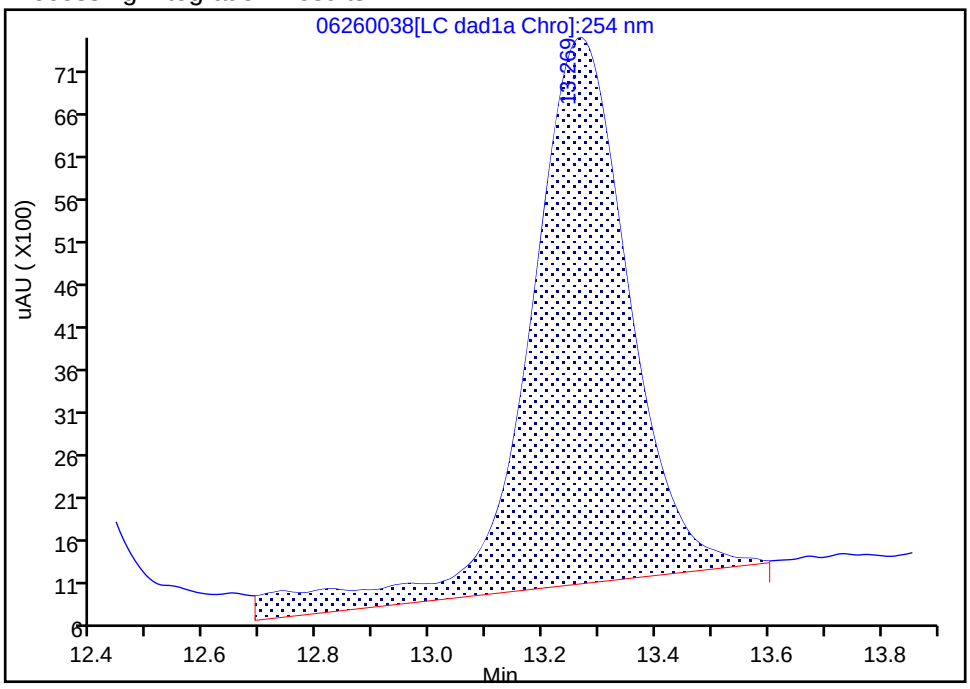
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260038.d				
Injection Date:	27-Jun-2020 17:55:52	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	38
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

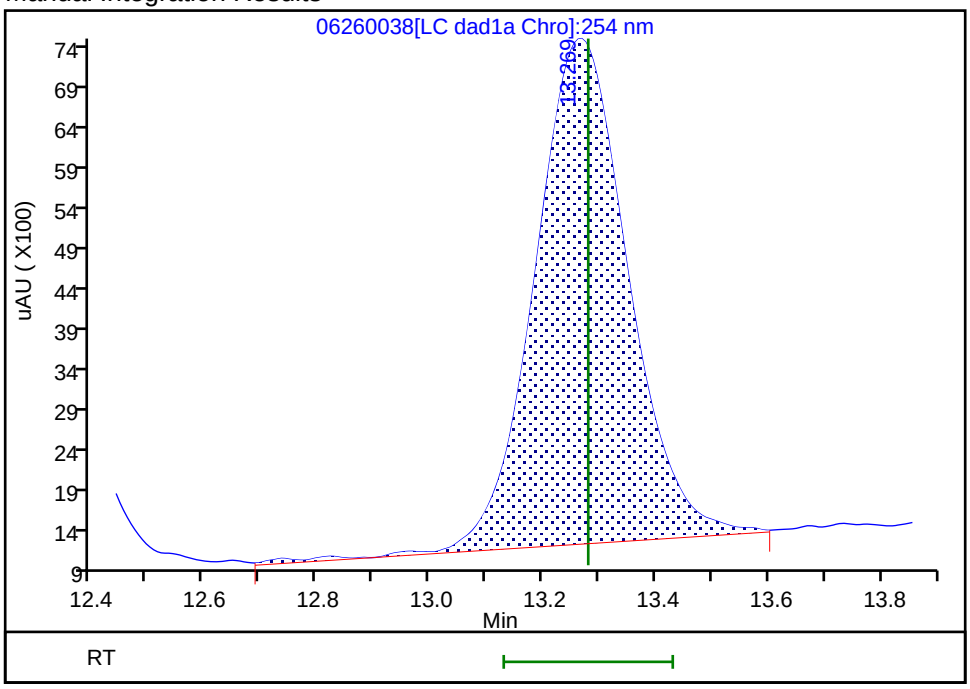
Processing Integration Results

RT: 13.27
Area: 79380
Amount: 0.279701
Amount Units: ug/ml



Manual Integration Results

RT: 13.27
Area: 72366
Amount: 0.254401
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 16:55:35
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

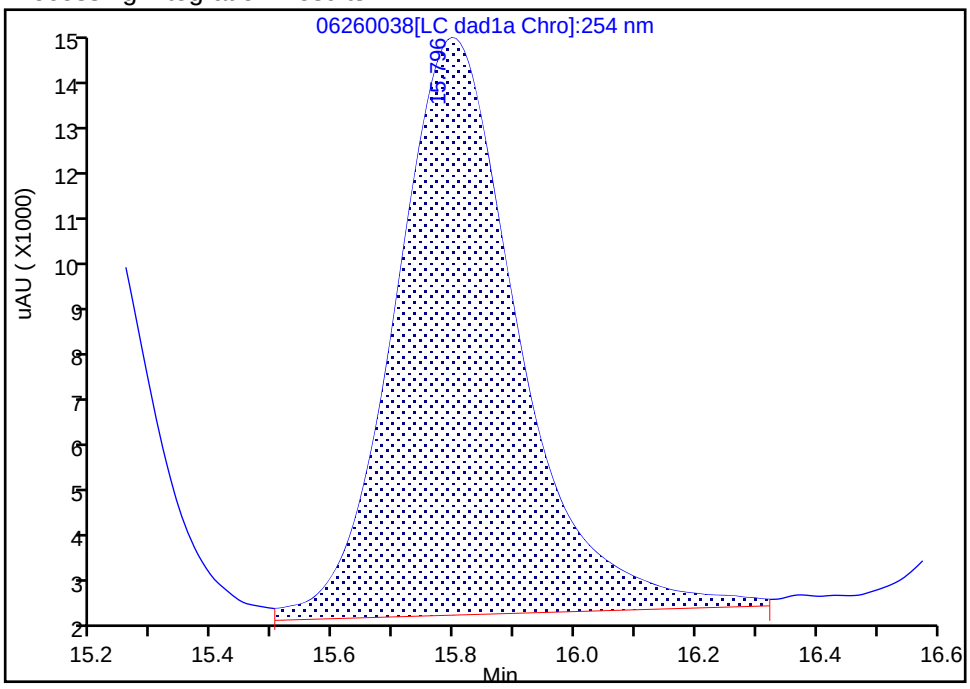
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260038.d				
Injection Date:	27-Jun-2020 17:55:52	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	38
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

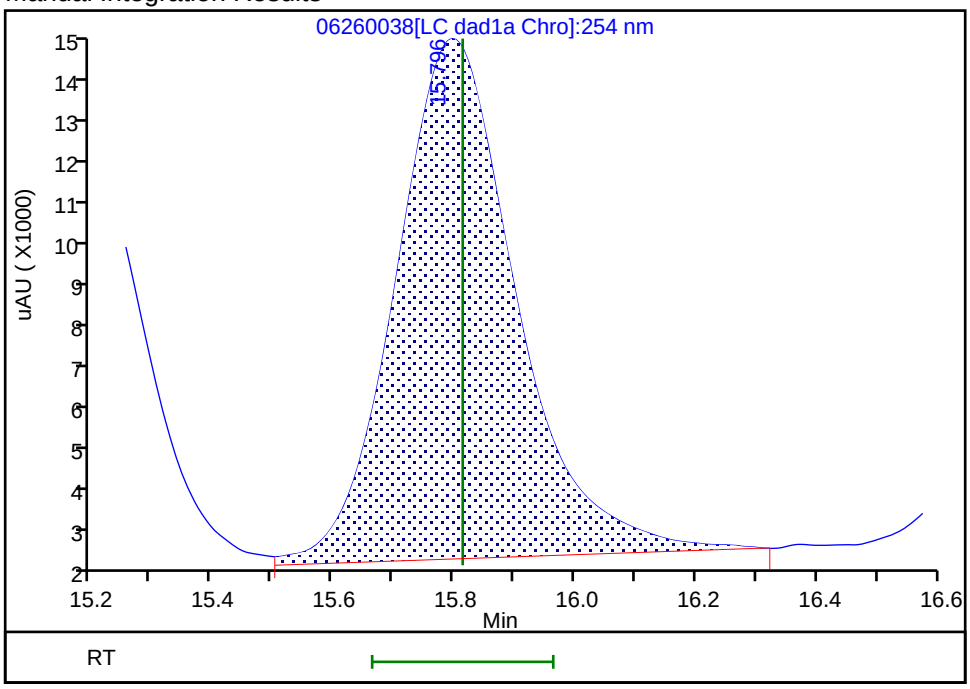
Processing Integration Results

RT: 15.80
Area: 170951
Amount: 0.253566
Amount Units: ug/ml



Manual Integration Results

RT: 15.80
Area: 166080
Amount: 0.246341
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 16:55:08
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

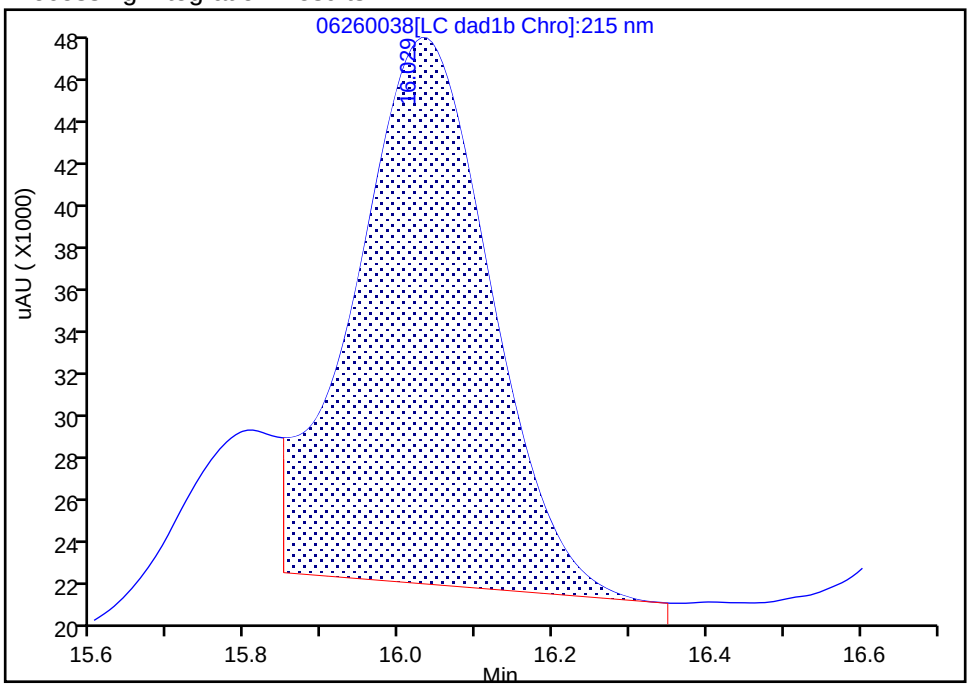
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260038.d				
Injection Date:	27-Jun-2020 17:55:52	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	38
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:		Detector	LC DAD1B, 215 nm		

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

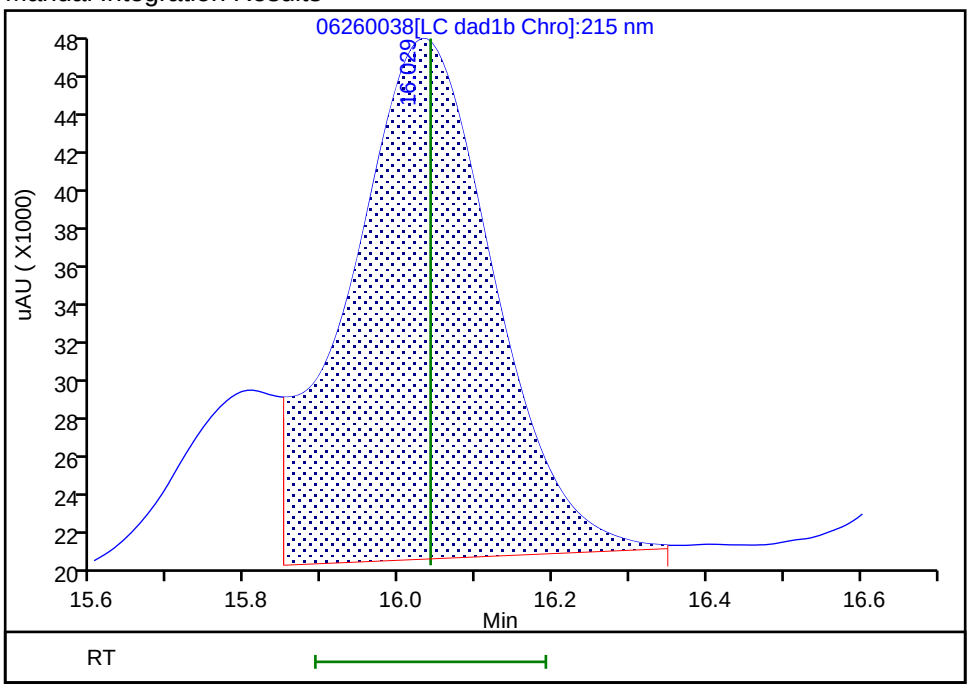
Processing Integration Results

RT: 16.03
Area: 319285
Amount: 2.517954
Amount Units: ug/ml



Manual Integration Results

RT: 16.03
Area: 359365
Amount: 2.834034
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 16:55:21
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

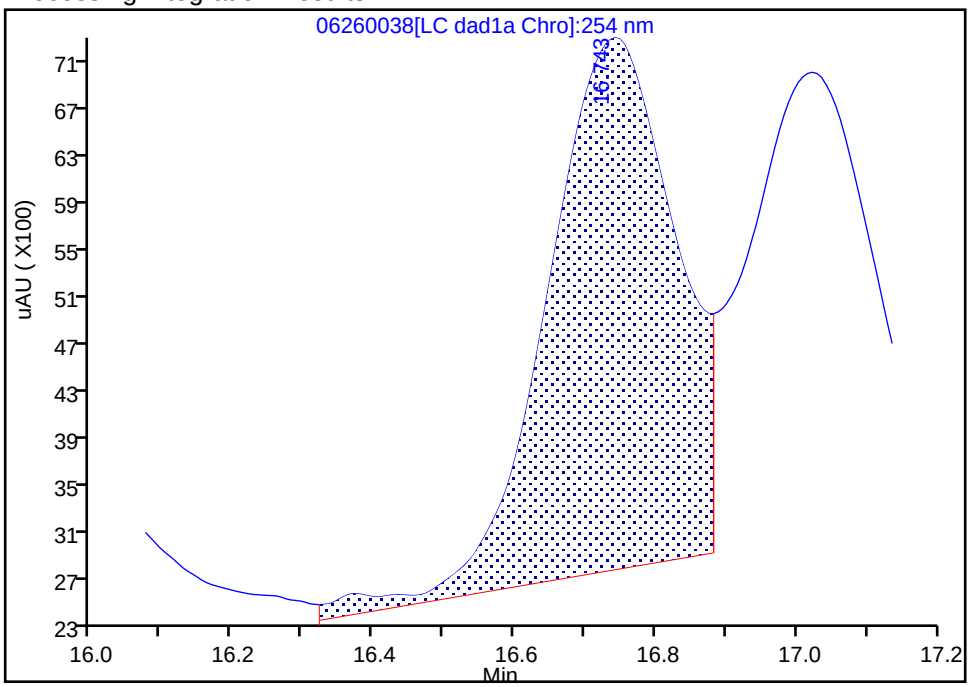
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260038.d				
Injection Date:	27-Jun-2020 17:55:52	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	38
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

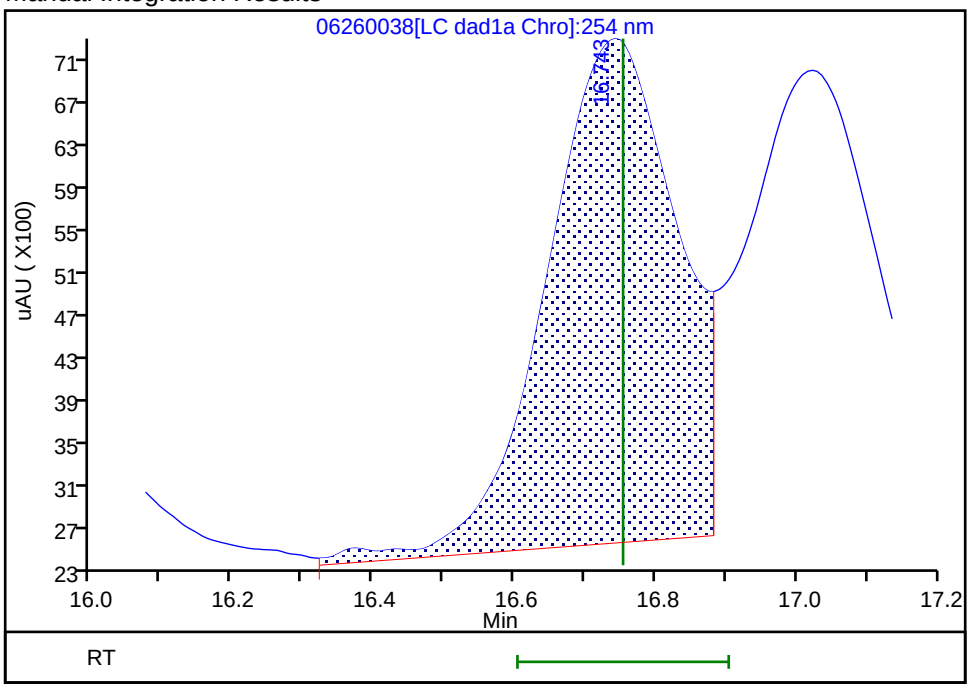
Processing Integration Results

RT: 16.74
Area: 57872
Amount: 0.212013
Amount Units: ug/ml



Manual Integration Results

RT: 16.74
Area: 60594
Amount: 0.221985
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 16:55:10

Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

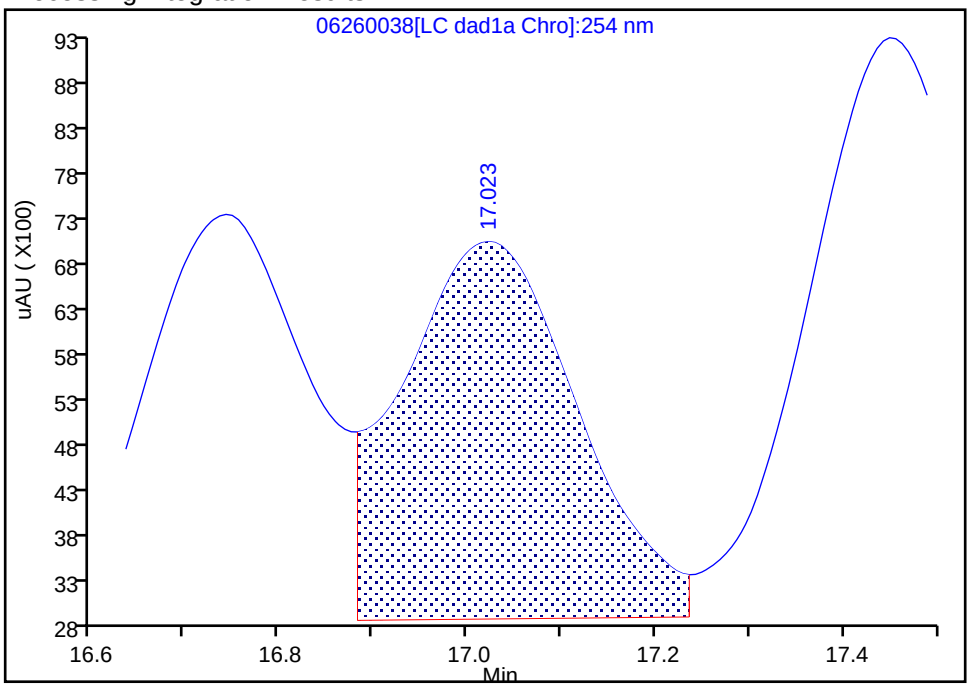
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260038.d				
Injection Date:	27-Jun-2020 17:55:52	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	38
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

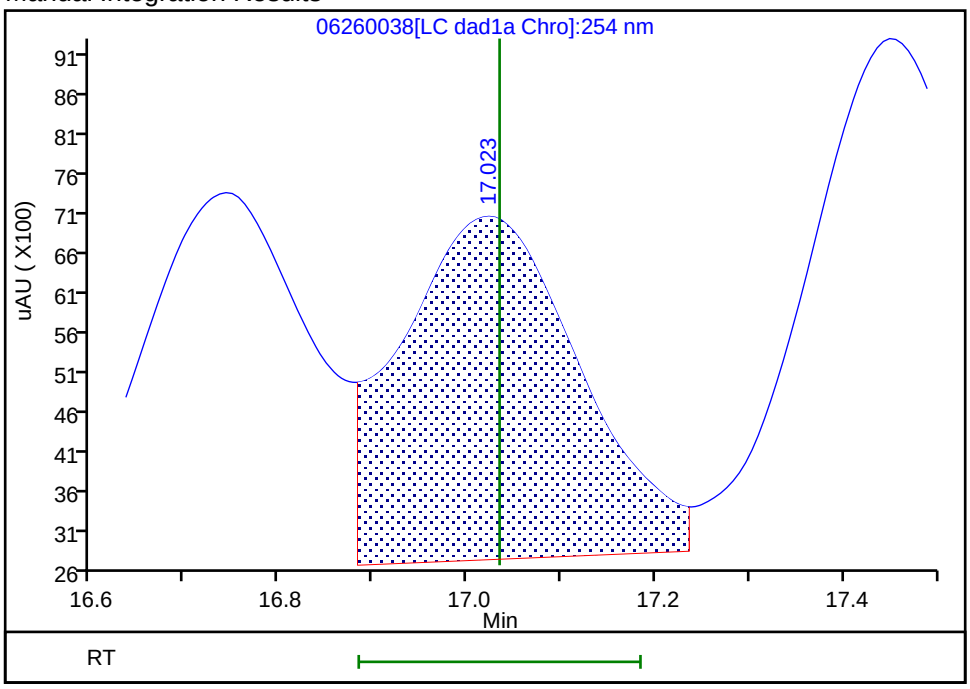
Processing Integration Results

RT: 17.02
Area: 52851
Amount: 0.219407
Amount Units: ug/ml



Manual Integration Results

RT: 17.02
Area: 56296
Amount: 0.233708
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 16:55:10
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

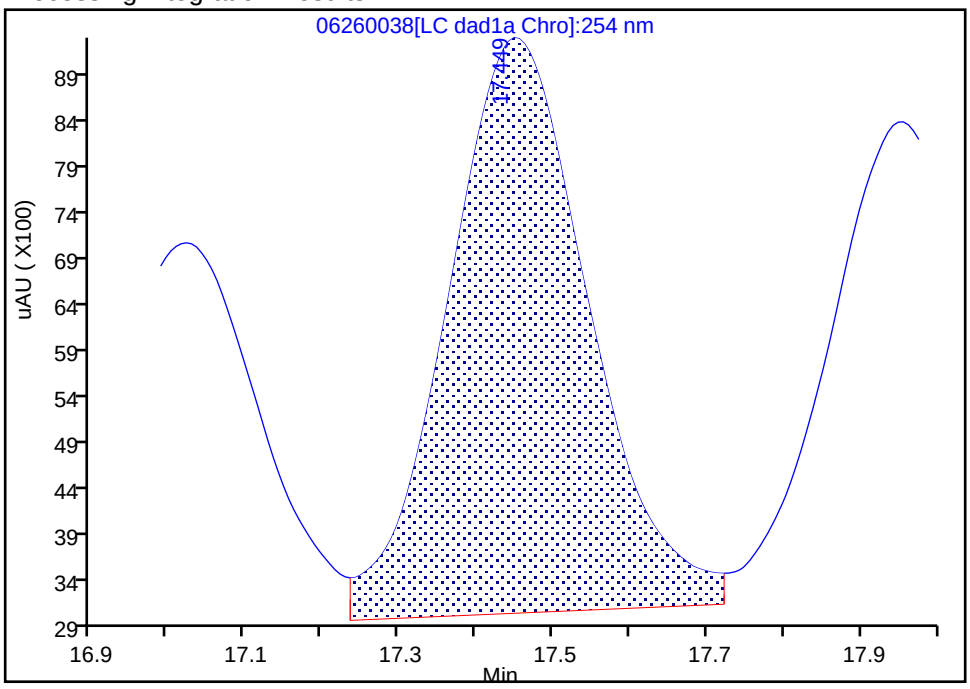
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260038.d				
Injection Date:	27-Jun-2020 17:55:52	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	38
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

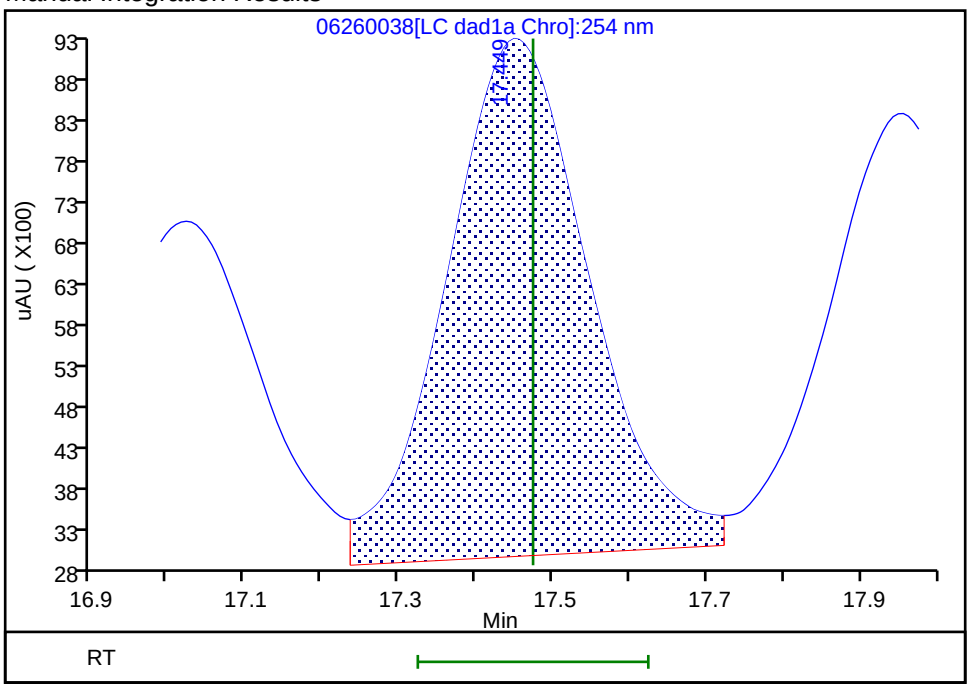
Processing Integration Results

RT: 17.45
Area: 79121
Amount: 0.229180
Amount Units: ug/ml



Manual Integration Results

RT: 17.45
Area: 80902
Amount: 0.234339
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 16:55:10
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

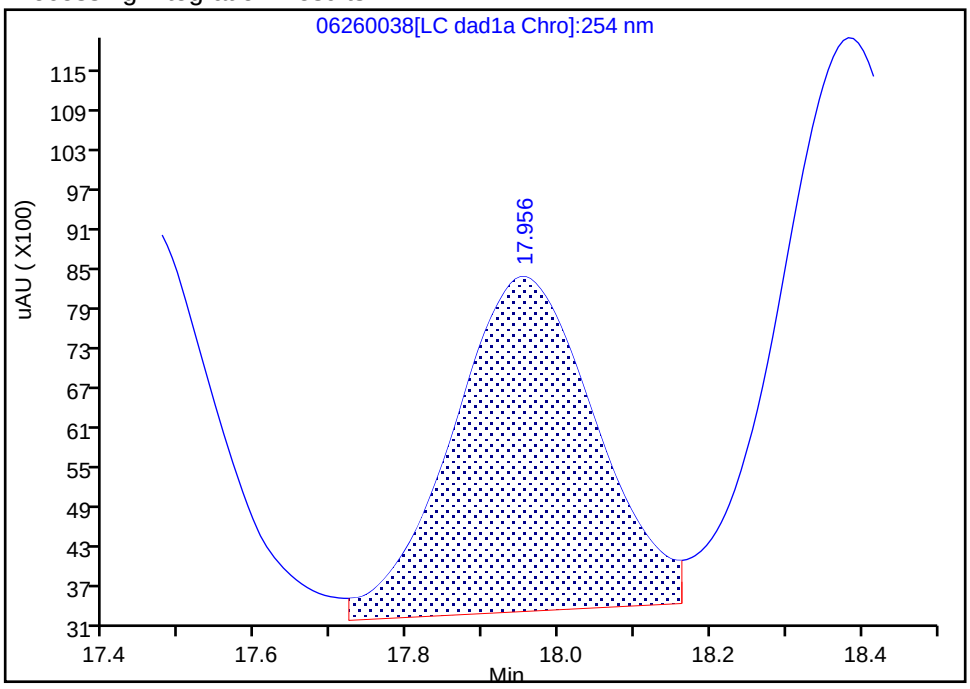
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260038.d				
Injection Date:	27-Jun-2020 17:55:52	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	38
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

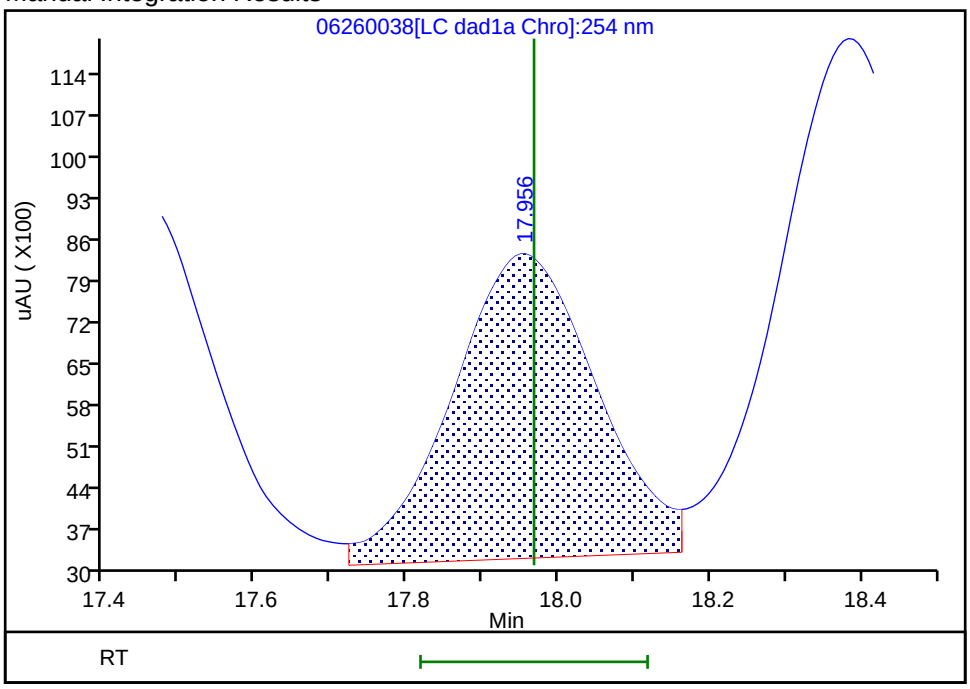
Processing Integration Results

RT: 17.96
Area: 66440
Amount: 0.222709
Amount Units: ug/ml



Manual Integration Results

RT: 17.96
Area: 67668
Amount: 0.226825
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 16:55:10
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

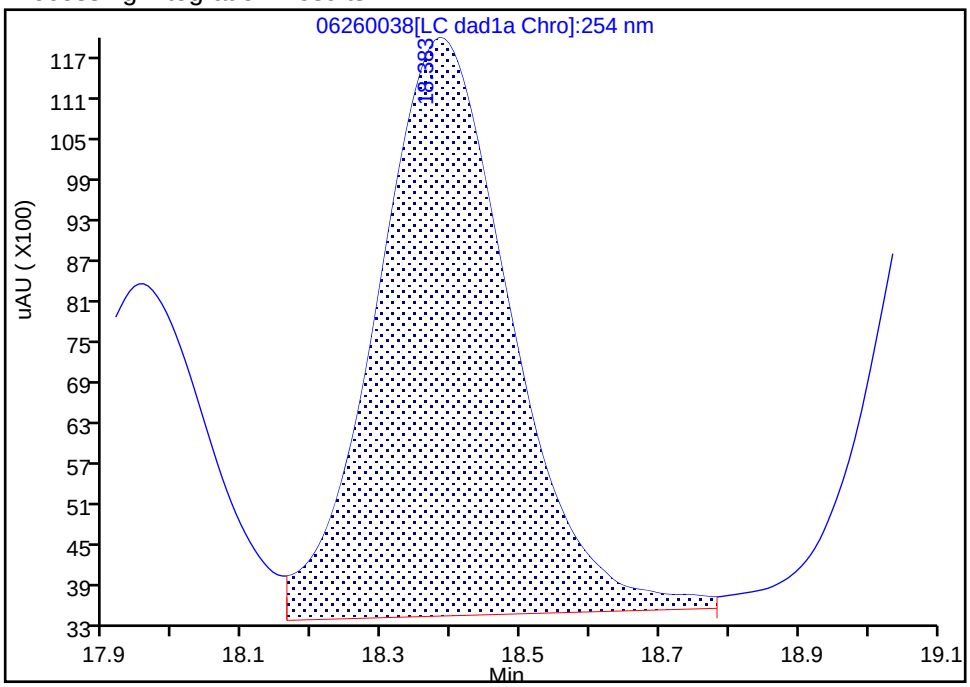
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260038.d
Injection Date: 27-Jun-2020 17:55:52 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 38
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

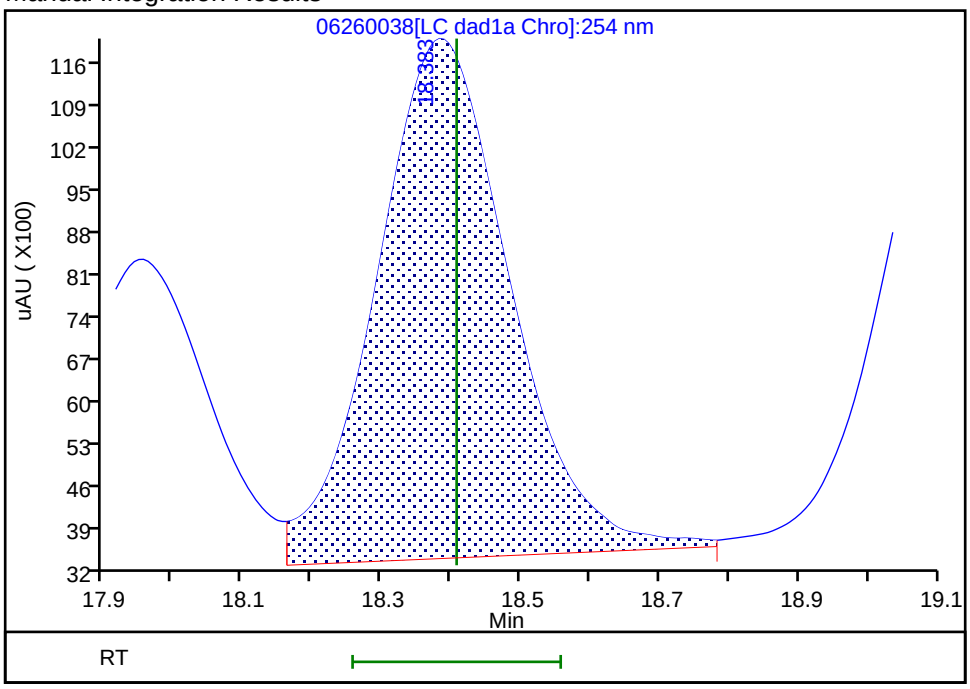
Processing Integration Results

RT: 18.38
Area: 113959
Amount: 0.244962
Amount Units: ug/ml



Manual Integration Results

RT: 18.38
Area: 113977
Amount: 0.245001
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 16:55:10
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

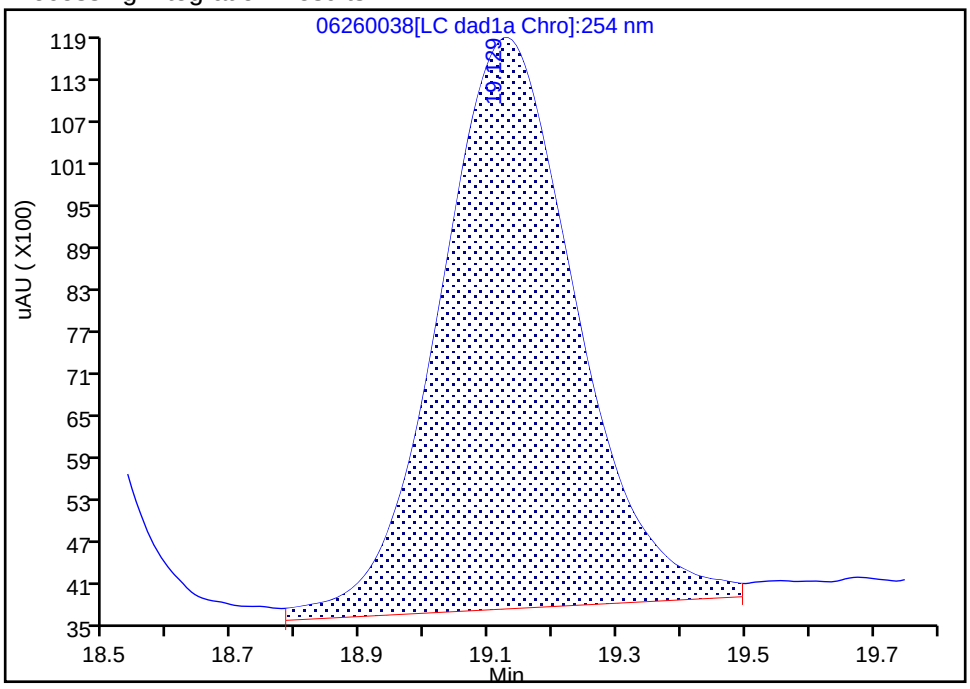
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260038.d				
Injection Date:	27-Jun-2020 17:55:52	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	38
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

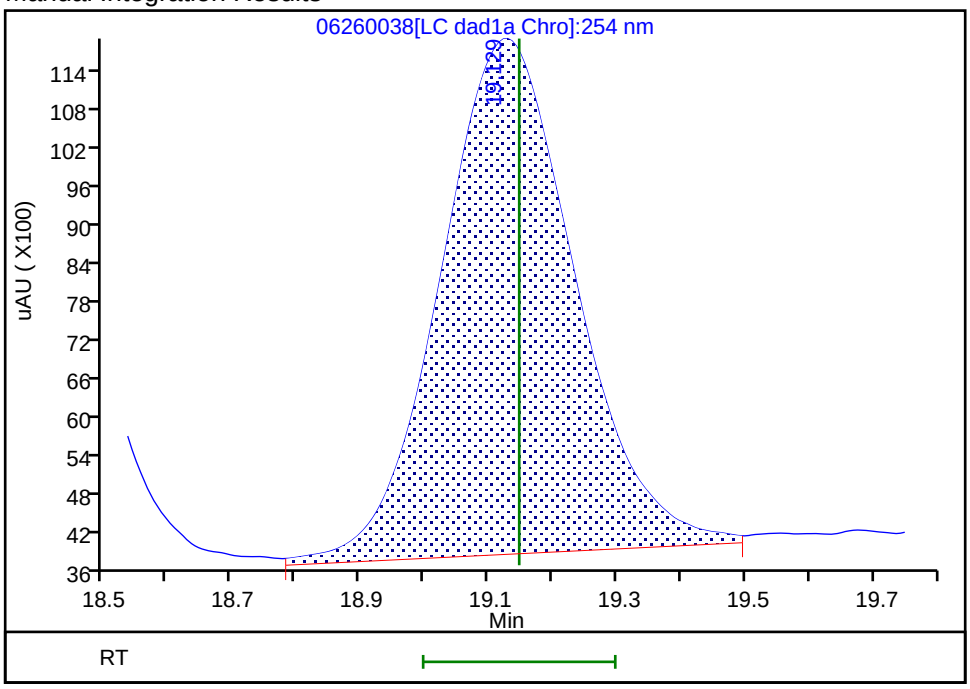
Processing Integration Results

RT: 19.13
Area: 120947
Amount: 0.255999
Amount Units: ug/ml



Manual Integration Results

RT: 19.13
Area: 117887
Amount: 0.249522
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 16:55:10
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

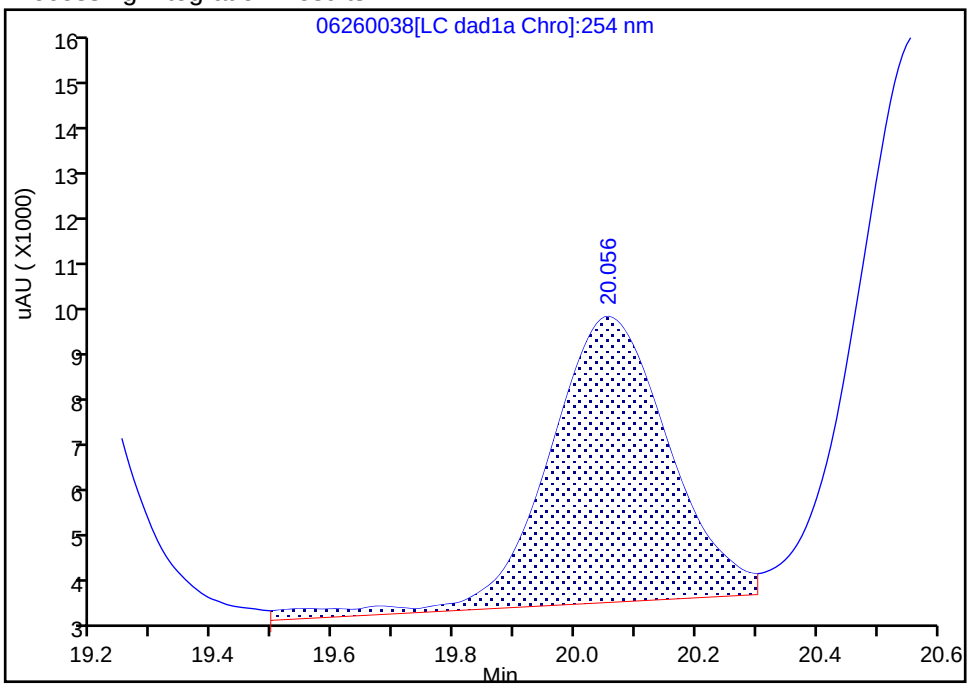
Data File:	\\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260038.d				
Injection Date:	27-Jun-2020 17:55:52	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	38
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

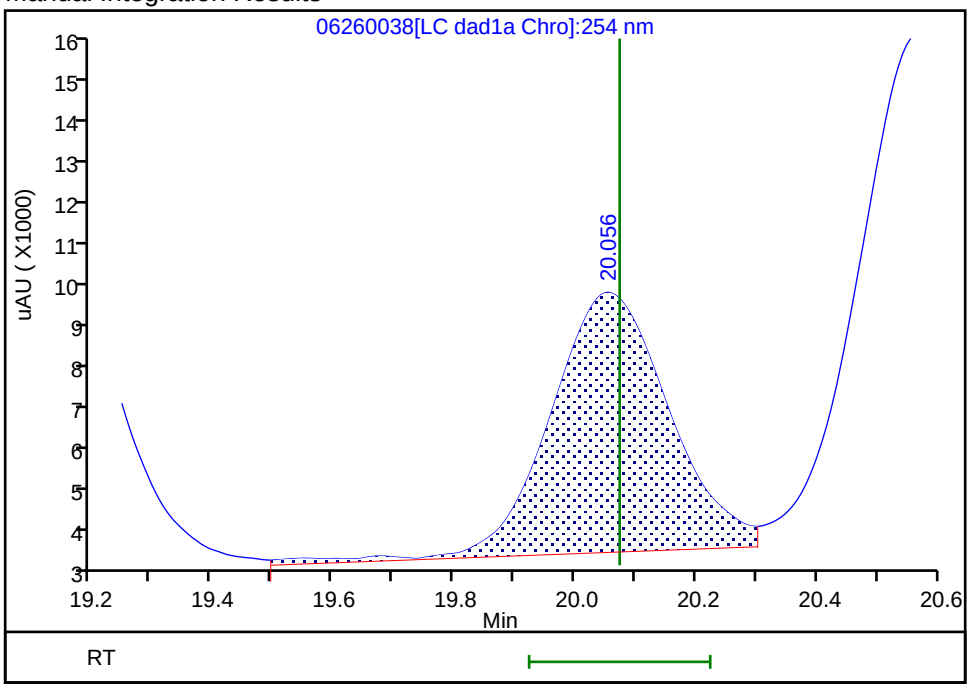
Processing Integration Results

RT: 20.06
Area: 78178
Amount: 0.254970
Amount Units: ug/ml



Manual Integration Results

RT: 20.06
Area: 76968
Amount: 0.250787
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 16:55:10
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

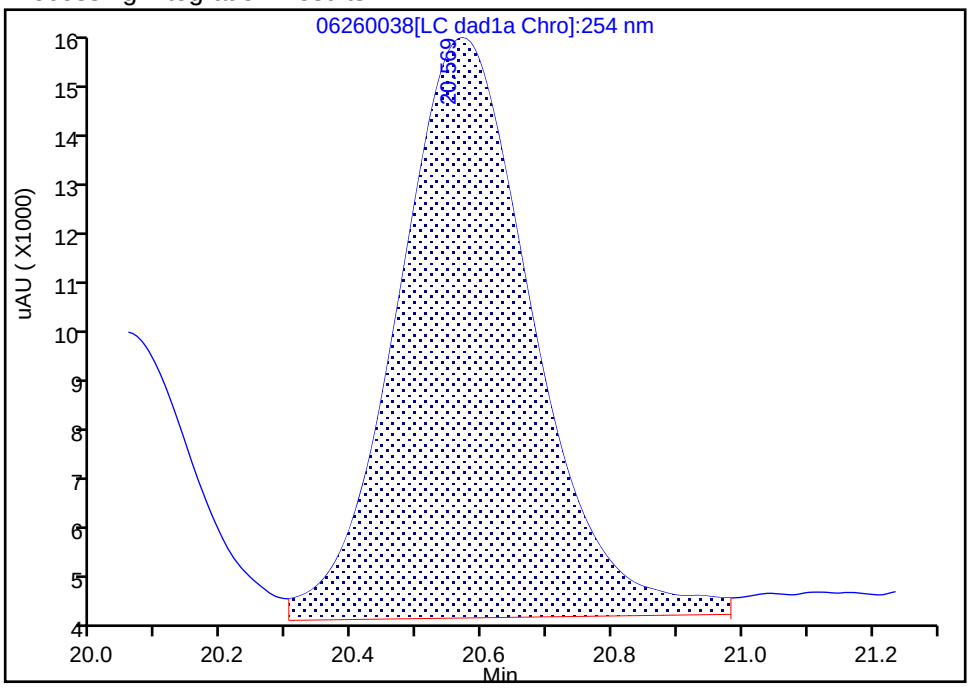
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260038.d
Injection Date: 27-Jun-2020 17:55:52 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 38
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

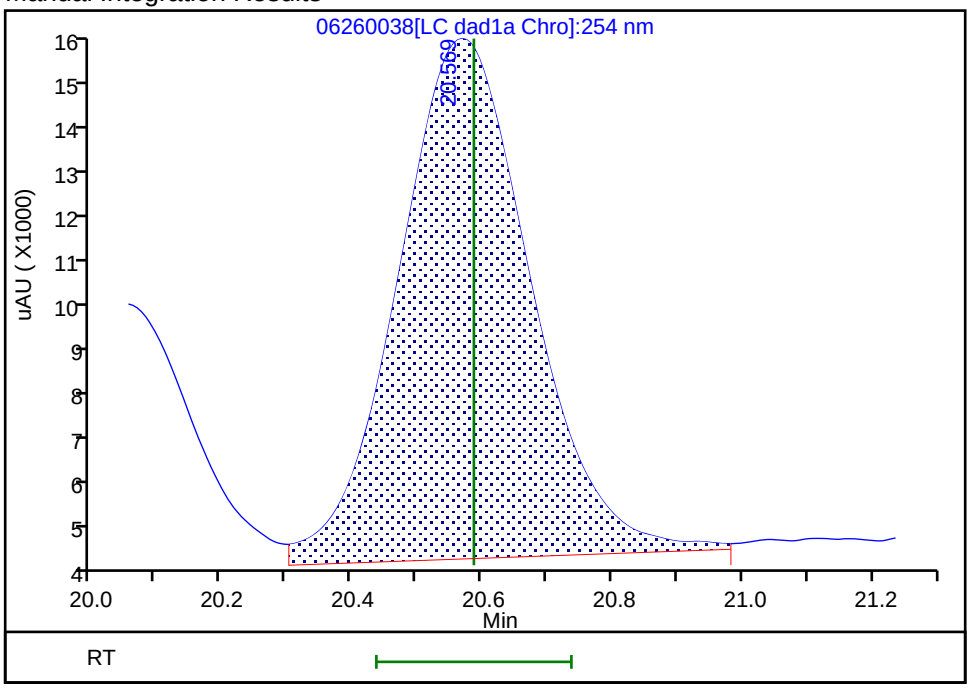
Processing Integration Results

RT: 20.57
Area: 158407
Amount: 0.247467
Amount Units: ug/ml



Manual Integration Results

RT: 20.57
Area: 155082
Amount: 0.242273
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 16:55:10
Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500327/39 Calibration Date: 06/27/2020 18:30

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 06260039.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	435816	403672		232	250	-7.4	15.0
DNX	Ave	321206	306074		238	250	-4.7	15.0
MNX	Lin2		283914		290	292	-0.6	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500327/39 Calibration Date: 06/27/2020 18:30

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 06260039.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.52	5.38	5.68
DNX	6.36	6.22	6.52
MNX	7.91	7.77	8.07

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\06260039.D
Lims ID: CCV DMT
Client ID:
Sample Type: CCV
Inject. Date: 27-Jun-2020 18:30:50 ALS Bottle#: 8 Worklist Smp#: 39
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV DMT
Misc. Info.: 280-0092796-039
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub13

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200626-92796.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 01-Jul-2020 16:56:04 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1062

First Level Reviewer: zhangji Date: 01-Jul-2020 16:55:51

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.522	5.525	-0.003	101019	0.2503	0.2318	
4 DNX	1	6.362	6.365	-0.003	76595	0.2503	0.2385	
7 MNX	1	7.909	7.919	-0.010	82832	0.2918	0.2901	

Reagents:

8330 DMT_00006 Amount Added: 12.50 Units: uL

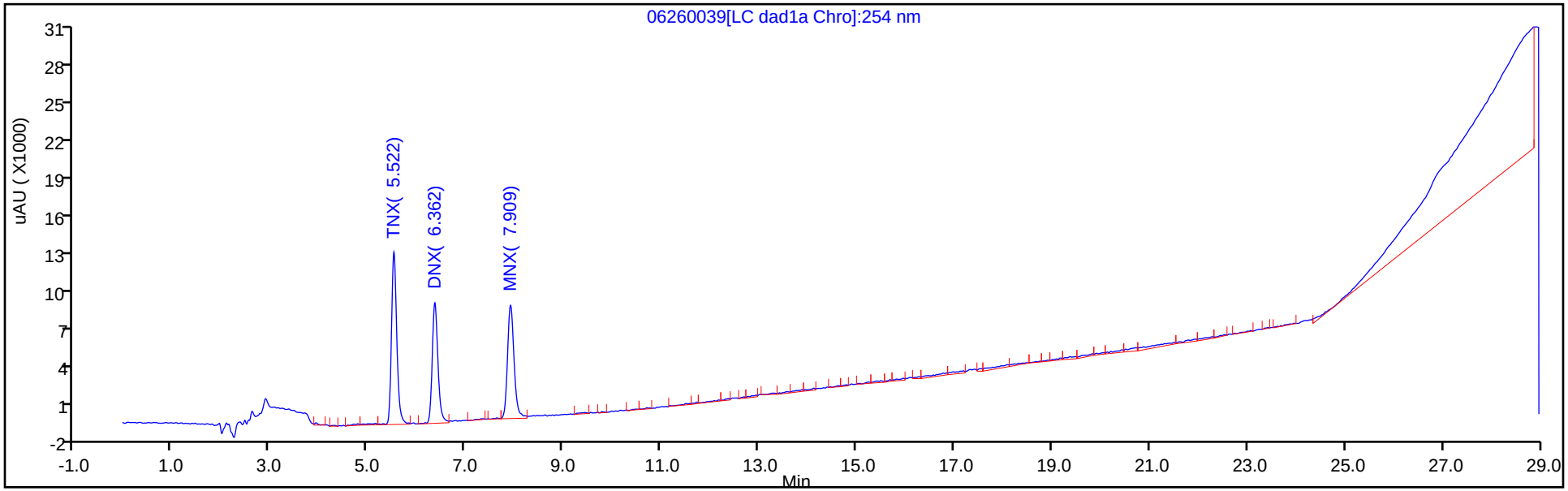
Report Date: 01-Jul-2020 16:56:05 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

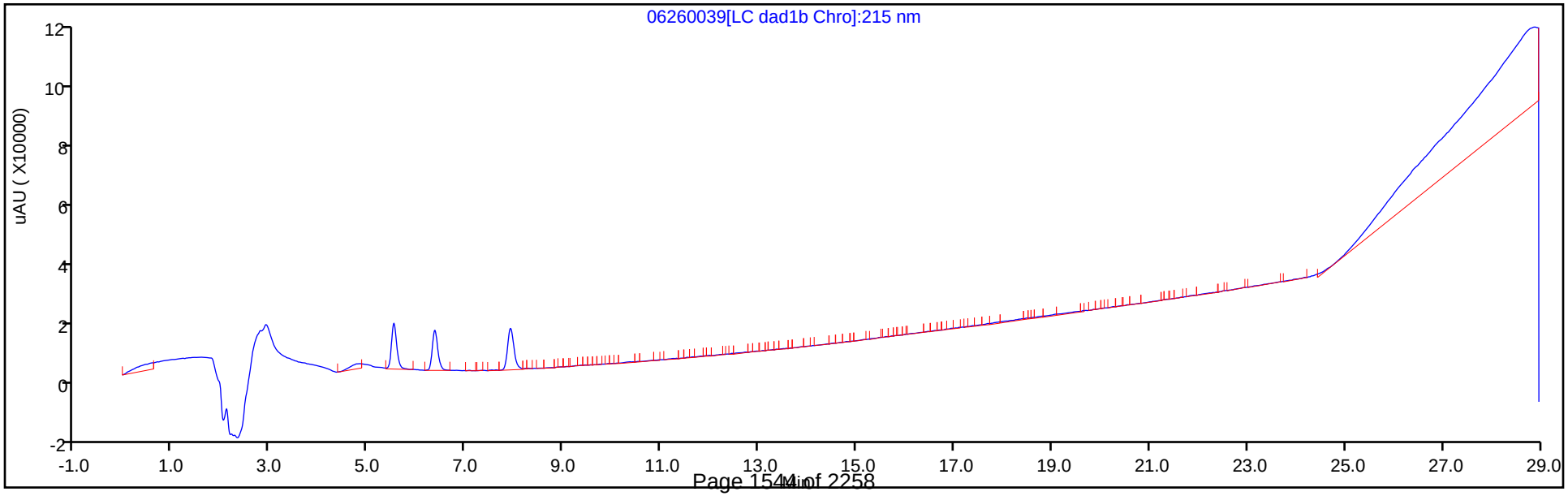
Data File: \\chromfs\denver\chromdata\g2_luna\20200626-92796.b\06260039.d

Injection Date:	27-Jun-2020 18:30:50	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	39
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500847/7 Calibration Date: 07/01/2020 22:21

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 07010007.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin2		177860		221	250	-11.6	15.0
Picric acid	Ave	193810	188676		243	250	-2.6	15.0
RDX	Ave	244360	230208		236	250	-5.8	15.0
Nitrobenzene	Ave	439227	436857		250	251	-0.5	15.0
1,3-Dinitrobenzene	Ave	674189	647134		240	251	-4.0	15.0
Nitroglycerin	Ave	126803	132189		2610	2500	4.2	15.0
2-Nitrotoluene	Ave	272965	253028		232	250	-7.3	15.0
4-Nitrotoluene	Ave	240881	232180		241	251	-3.6	15.0
4-Amino-2,6-dinitrotoluene	Ave	345235	303816		220	250	-12.0	15.0
3-Nitrotoluene	Ave	298327	286410		240	250	-4.0	15.0
2-Amino-4,6-dinitrotoluene	Ave	465211	423032		228	251	-9.1	15.0
1,3,5-Trinitrobenzene	Ave	472451	445637		236	251	-5.7	15.0
2,6-Dinitrotoluene	Lin2		287984		235	251	-6.5	15.0
2,4-Dinitrotoluene	Ave	640113	588829		231	251	-8.0	15.0
Tetryl	Ave	368678	341242		232	251	-7.4	15.0
2,4,6-Trinitrotoluene	Lin1		392251		237	251	-5.5	15.0
PETN	Lin1		140482		2500	2500	0.2	15.0
1,2-Dinitrobenzene	Lin1		290380		255	250	2.1	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500847/7 Calibration Date: 07/01/2020 22:21

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 07010007.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	7.24	7.09	7.39
Picric acid	8.60	8.45	8.75
RDX	9.48	9.33	9.63
Nitrobenzene	12.37	12.22	12.52
1,3-Dinitrobenzene	15.94	15.79	16.09
Nitroglycerin	16.18	16.03	16.33
2-Nitrotoluene	16.86	16.71	17.01
4-Nitrotoluene	17.15	17.00	17.30
4-Amino-2,6-dinitrotoluene	17.63	17.48	17.78
3-Nitrotoluene	18.08	17.93	18.23
2-Amino-4,6-dinitrotoluene	18.58	18.44	18.74
1,3,5-Trinitrobenzene	19.27	19.12	19.42
2,6-Dinitrotoluene	20.20	20.05	20.35
2,4-Dinitrotoluene	20.72	20.57	20.87
Tetryl	24.05	23.90	24.20
2,4,6-Trinitrotoluene	25.03	24.88	25.18
PETN	25.54	25.39	25.69
1,2-Dinitrobenzene	13.42	13.27	13.57

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\07010007.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Jul-2020 22:21:49 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 280-0092951-007
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 02-Jul-2020 15:28:45 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1059

First Level Reviewer: zhangji Date: 01-Jul-2020 22:58:36

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 2,6-diamino-4-nitrotoluene	1	4.477	4.477	0.000	105933	0.2500	0.2467	
2 2,4-diamino-6-nitrotoluene	1	5.030	5.030	0.000	65811	0.2500	0.2535	
6 HMX	1	7.244	7.244	0.000	44465	0.2500	0.2211	
5 2,4,6-Trinitrophenol	1	8.604	8.604	0.000	47169	0.2500	0.2434	
8 RDX	1	9.477	9.477	0.000	57552	0.2500	0.2355	
9 Nitrobenzene	1	12.370	12.370	0.000	109651	0.2510	0.2496	
$ 10 1,2-Dinitrobenzene	1	13.417	13.417	0.000	72595	0.2500	0.2552	
11 3,5-Dinitroaniline	1	15.383	15.383	0.000	119099	0.2500	0.2398	M
12 1,3-Dinitrobenzene	1	15.943	15.943	0.000	162107	0.2505	0.2404	M
13 Nitroglycerin	2	16.183	16.183	0.000	330472	2.50	2.61	M
14 o-Nitrotoluene	1	16.863	16.863	0.000	63257	0.2500	0.2317	M
15 p-Nitrotoluene	1	17.150	17.150	0.000	58161	0.2505	0.2415	M
16 4-Amino-2,6-dinitrotoluene	1	17.630	17.630	0.000	76030	0.2503	0.2202	M
17 m-Nitrotoluene	1	18.083	18.083	0.000	71674	0.2503	0.2403	M
18 2-Amino-4,6-dinitrotoluene	1	18.583	18.590	-0.007	106181	0.2510	0.2282	M
19 1,3,5-Trinitrobenzene	1	19.270	19.270	0.000	111632	0.2505	0.2363	M
20 2,6-Dinitrotoluene	1	20.203	20.203	0.000	72284	0.2510	0.2346	M
21 2,4-Dinitrotoluene	1	20.724	20.724	0.000	147796	0.2510	0.2309	M
22 Tetryl	1	24.050	24.050	0.000	85481	0.2505	0.2319	
23 2,4,6-Trinitrotoluene	1	25.030	25.030	0.000	98455	0.2510	0.2373	
24 PETN	2	25.544	25.544	0.000	351206	2.50	2.50	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00064	Amount Added:	25.00	Units: uL
8330_ADDs_00027	Amount Added:	12.50	Units: uL

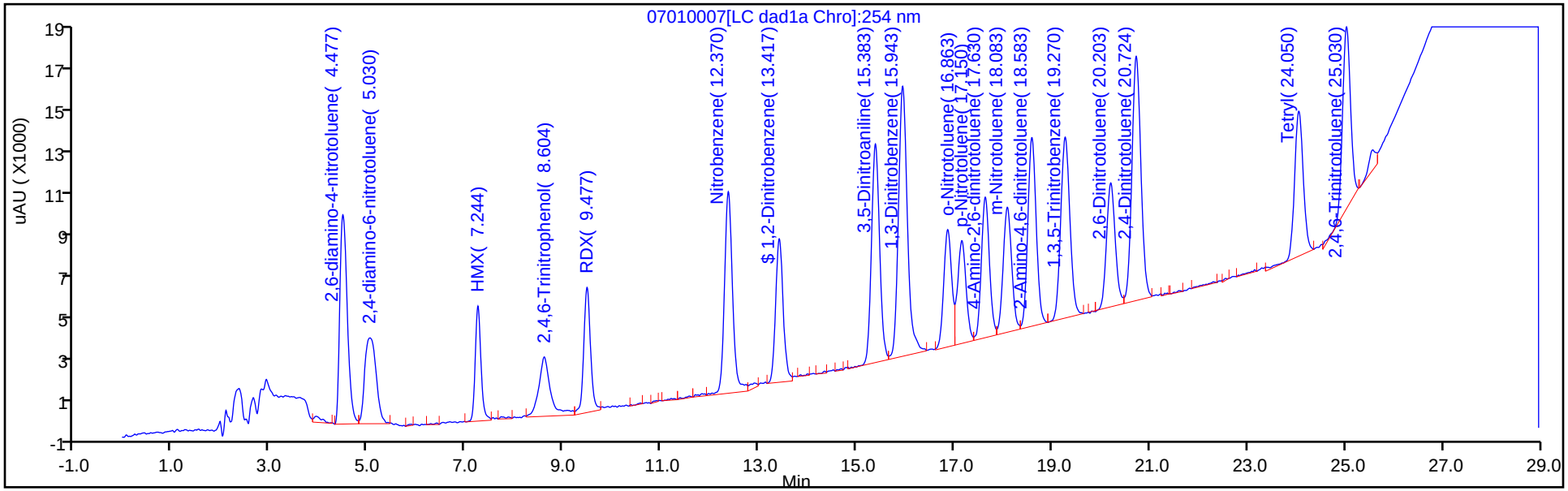
Report Date: 02-Jul-2020 15:28:45 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

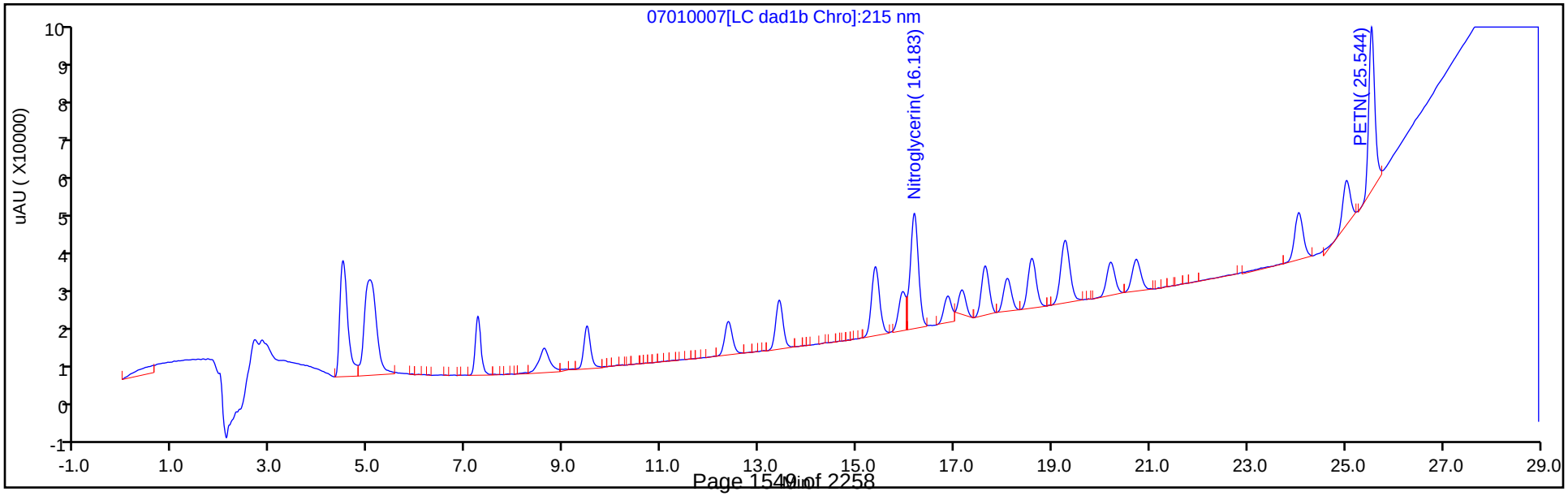
Data File: \\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010007.d

Injection Date:	01-Jul-2020 22:21:49	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

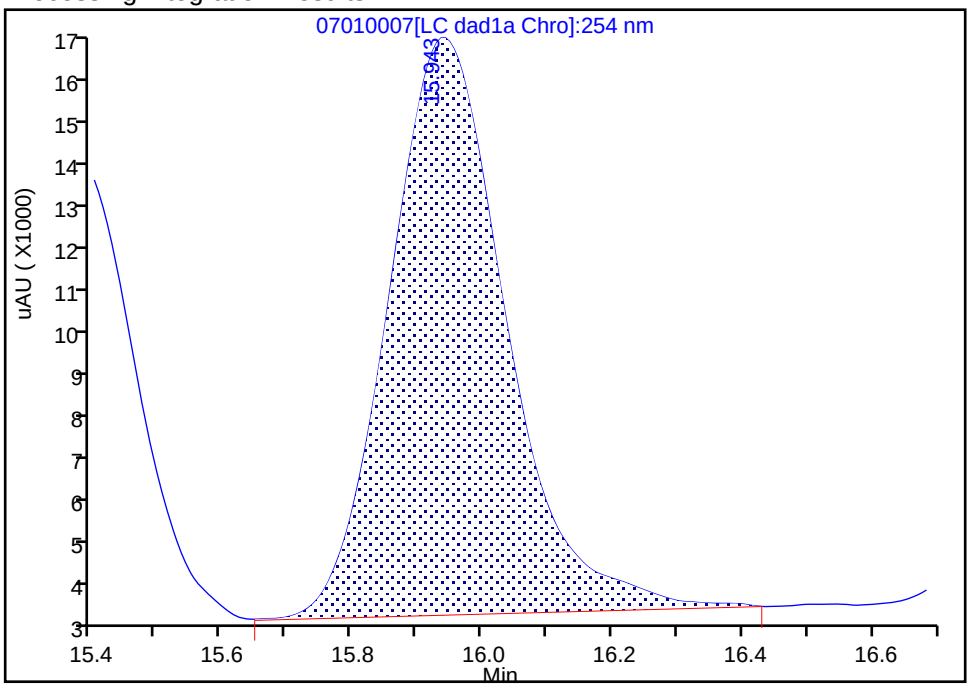
Data File: \\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010007.d
Injection Date: 01-Jul-2020 22:21:49 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

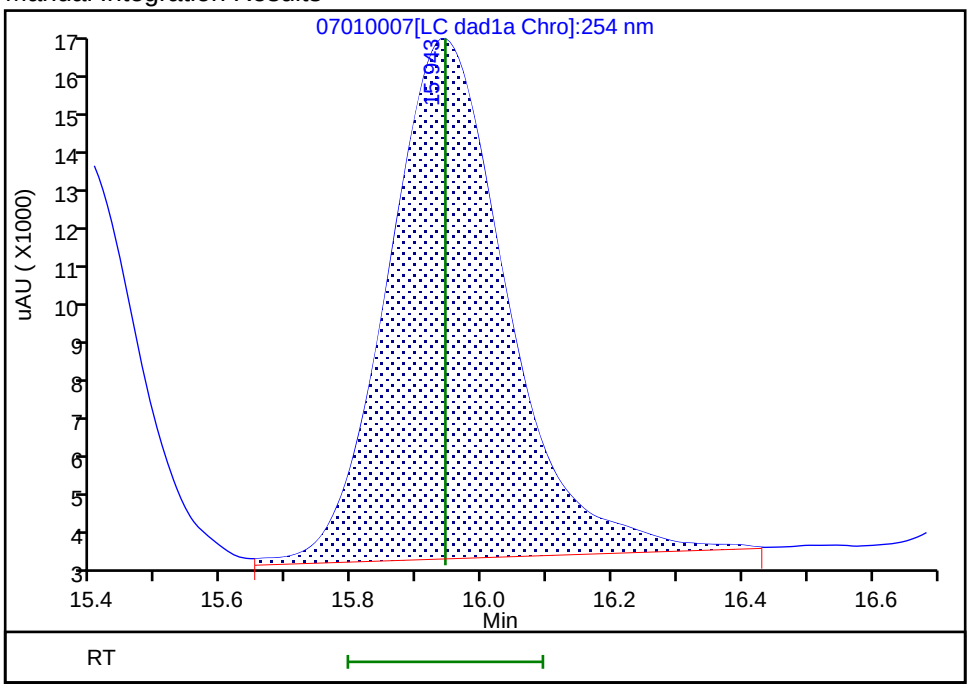
Processing Integration Results

RT: 15.94
Area: 158340
Amount: 0.234860
Amount Units: ug/ml



Manual Integration Results

RT: 15.94
Area: 162107
Amount: 0.240448
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 22:57:57
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

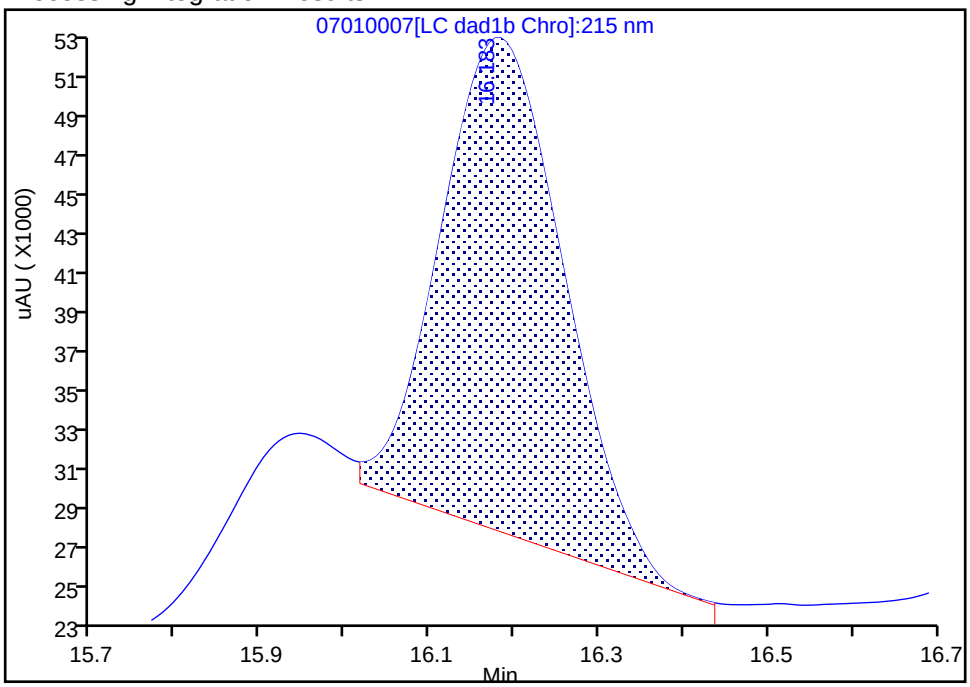
Data File: \\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010007.d
Injection Date: 01-Jul-2020 22:21:49 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Detector LC DAD1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

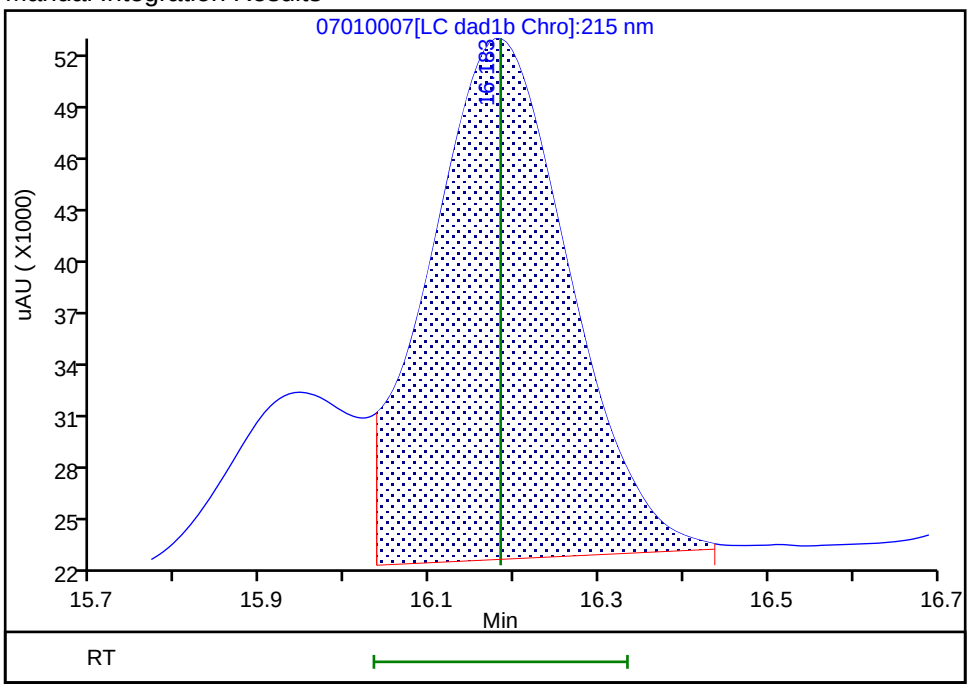
Processing Integration Results

RT: 16.18
Area: 248342
Amount: 1.958482
Amount Units: ug/ml



Manual Integration Results

RT: 16.18
Area: 330472
Amount: 2.606178
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 22:58:14
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

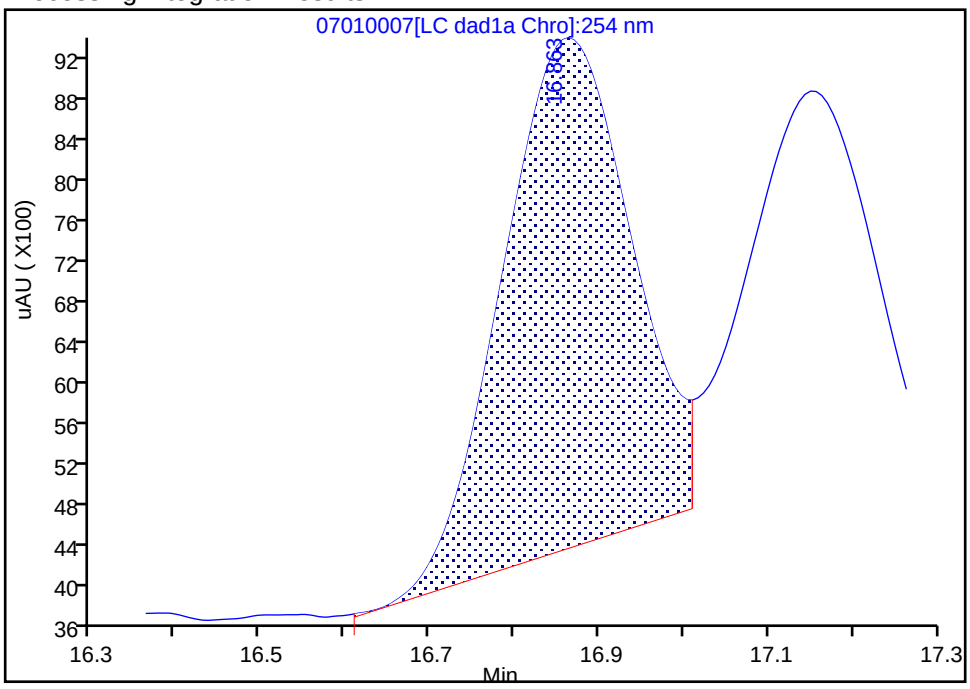
Data File: \\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010007.d
Injection Date: 01-Jul-2020 22:21:49 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

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

Signal: 1

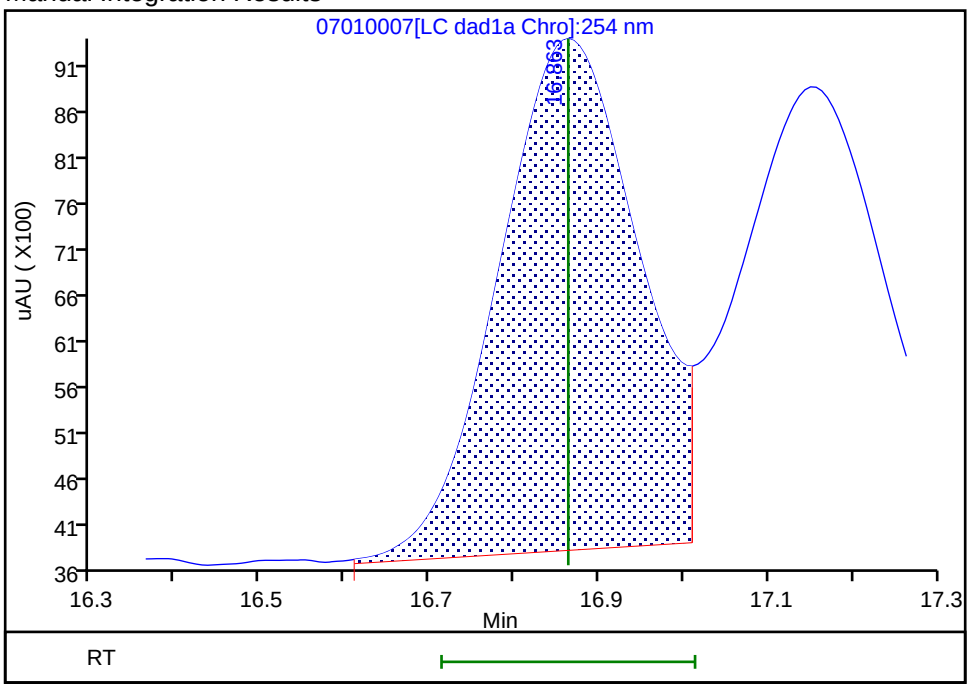
Processing Integration Results

RT: 16.86
Area: 52949
Amount: 0.193978
Amount Units: ug/ml



Manual Integration Results

RT: 16.86
Area: 63257
Amount: 0.231741
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 22:58:02
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

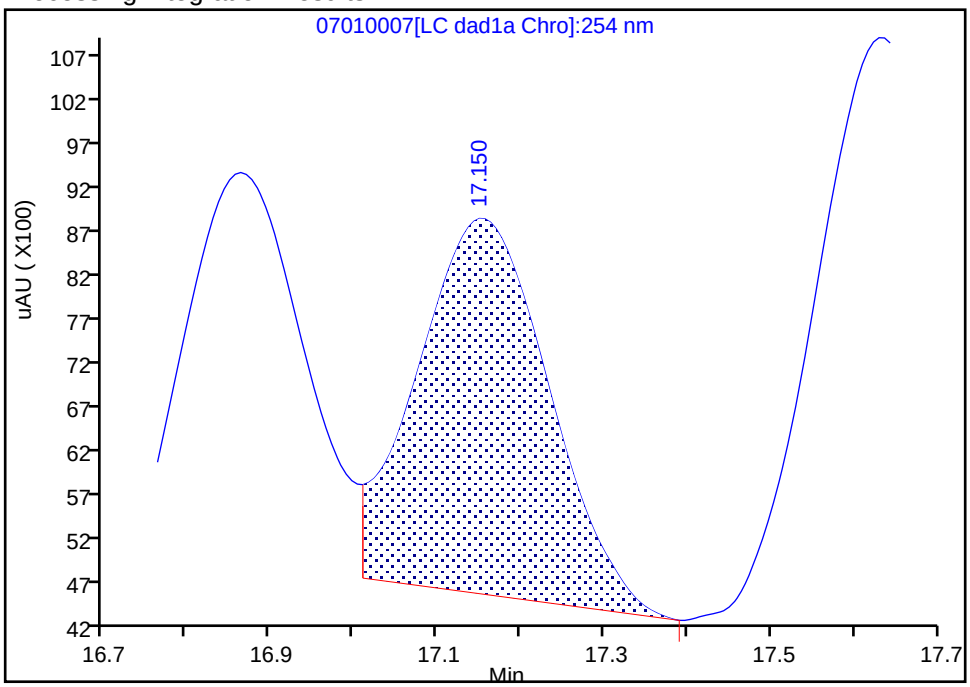
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010007.d				
Injection Date:	01-Jul-2020 22:21:49	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

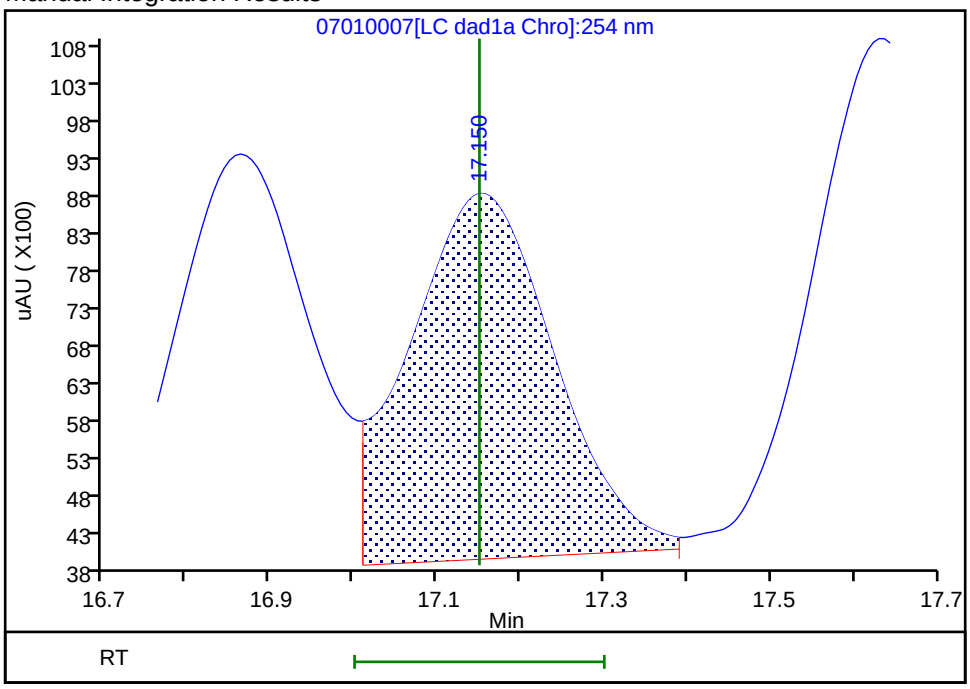
Processing Integration Results

RT: 17.15
Area: 46784
Amount: 0.194220
Amount Units: ug/ml



Manual Integration Results

RT: 17.15
Area: 58161
Amount: 0.241451
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 22:58:02
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

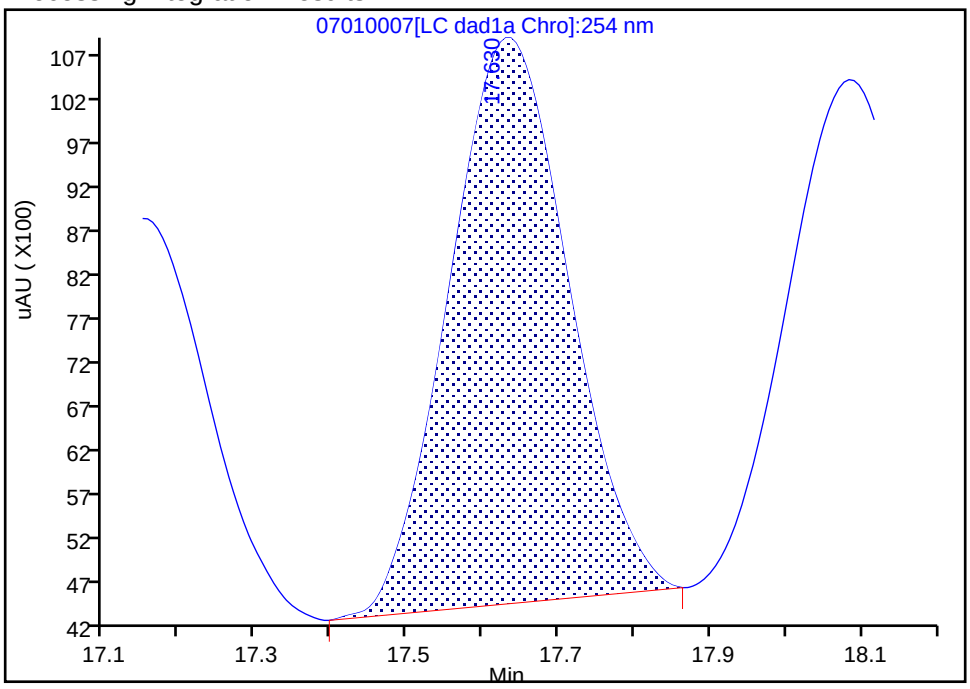
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010007.d				
Injection Date:	01-Jul-2020 22:21:49	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

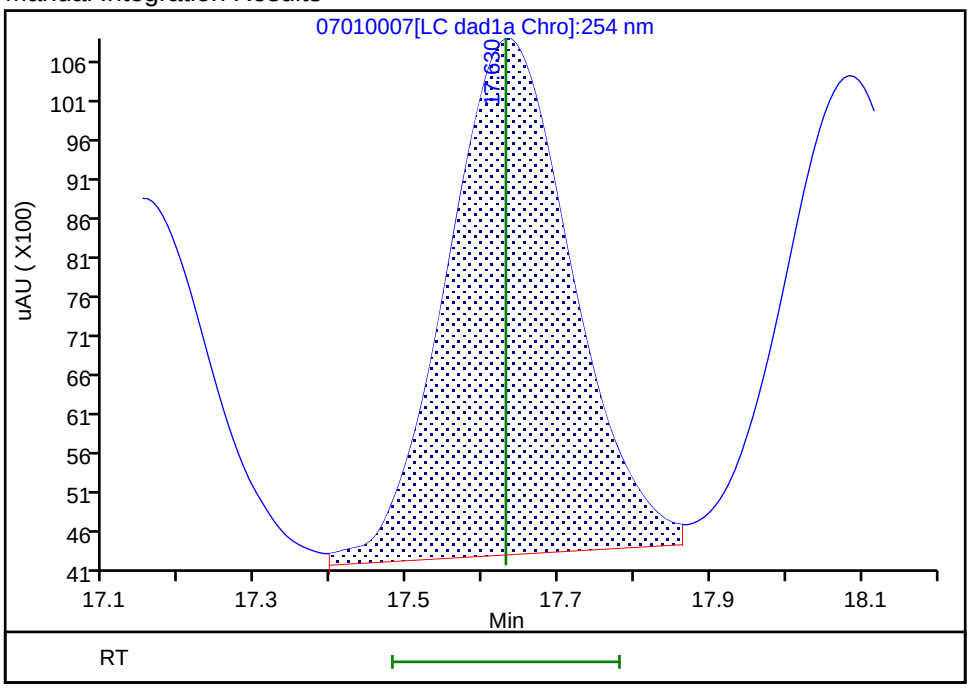
Processing Integration Results

RT: 17.63
Area: 70360
Amount: 0.203803
Amount Units: ug/ml



Manual Integration Results

RT: 17.63
Area: 76030
Amount: 0.220227
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 22:58:02
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

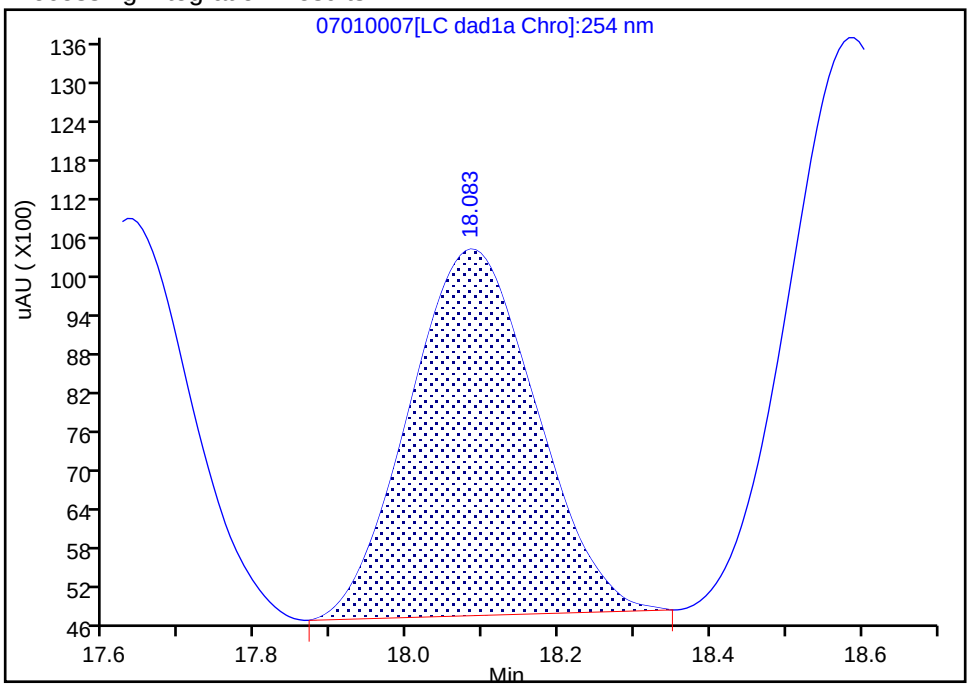
Data File: \\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010007.d
Injection Date: 01-Jul-2020 22:21:49 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

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

Signal: 1

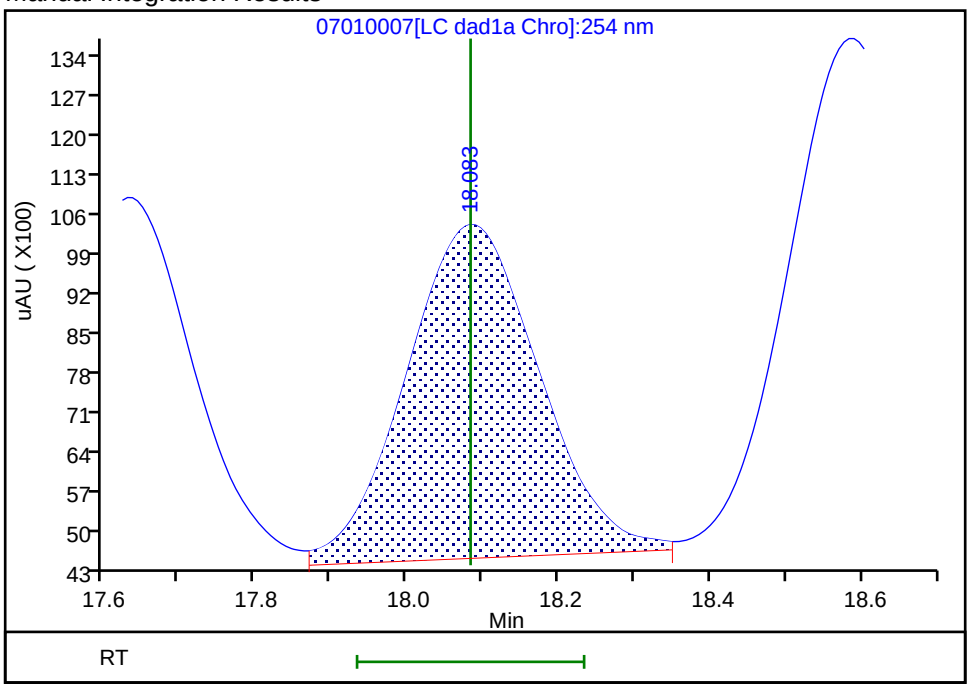
Processing Integration Results

RT: 18.08
Area: 65986
Amount: 0.221187
Amount Units: ug/ml



Manual Integration Results

RT: 18.08
Area: 71674
Amount: 0.240253
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 22:58:02
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

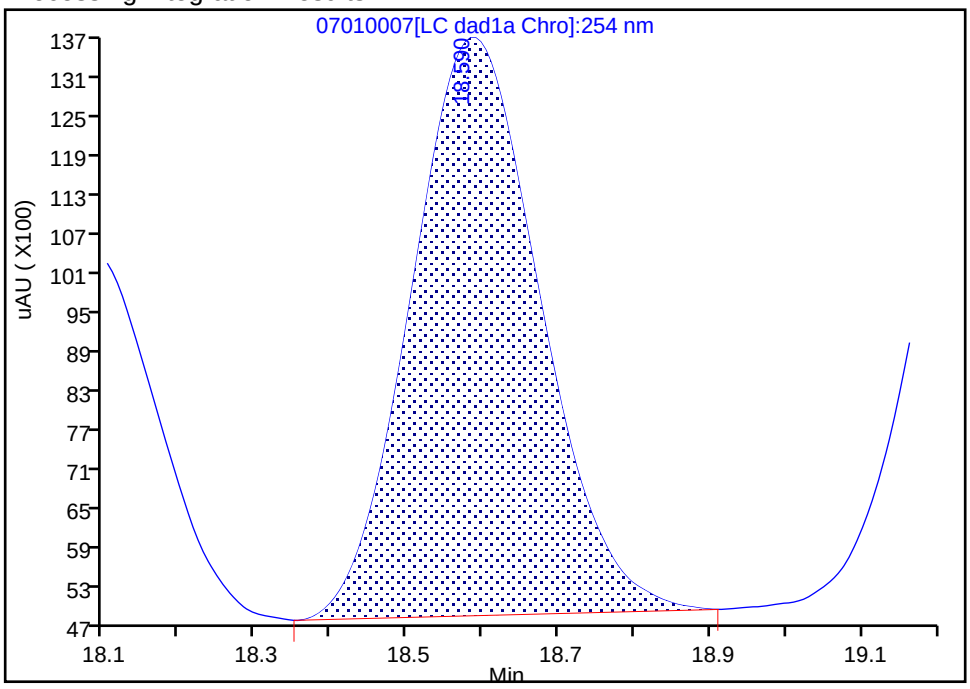
Data File: \\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010007.d
Injection Date: 01-Jul-2020 22:21:49 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

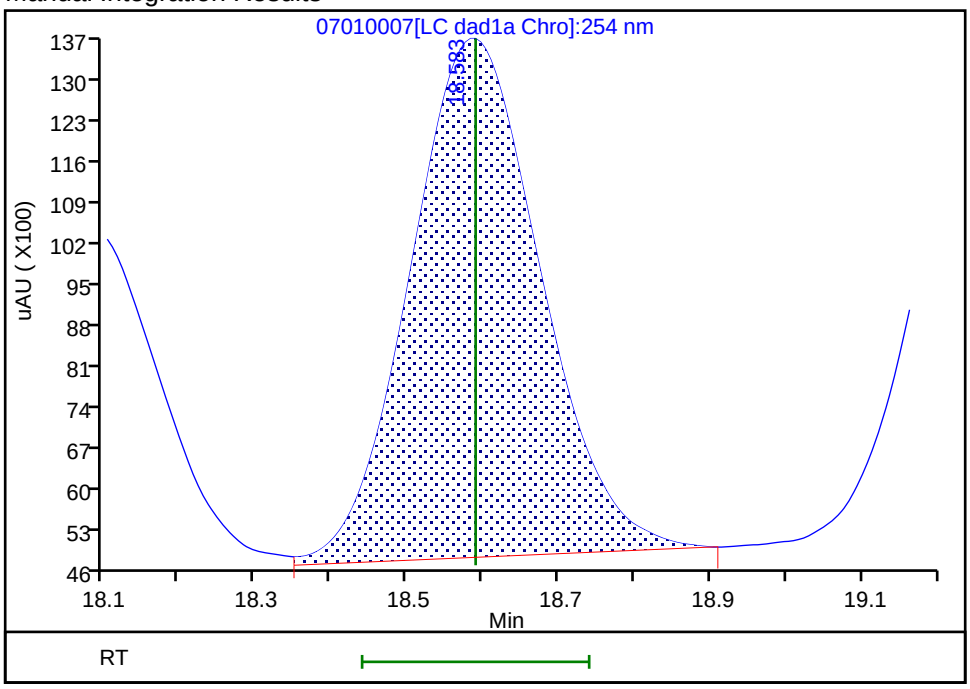
Processing Integration Results

RT: 18.59
Area: 103896
Amount: 0.223331
Amount Units: ug/ml



Manual Integration Results

RT: 18.58
Area: 106181
Amount: 0.228243
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 22:58:02
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

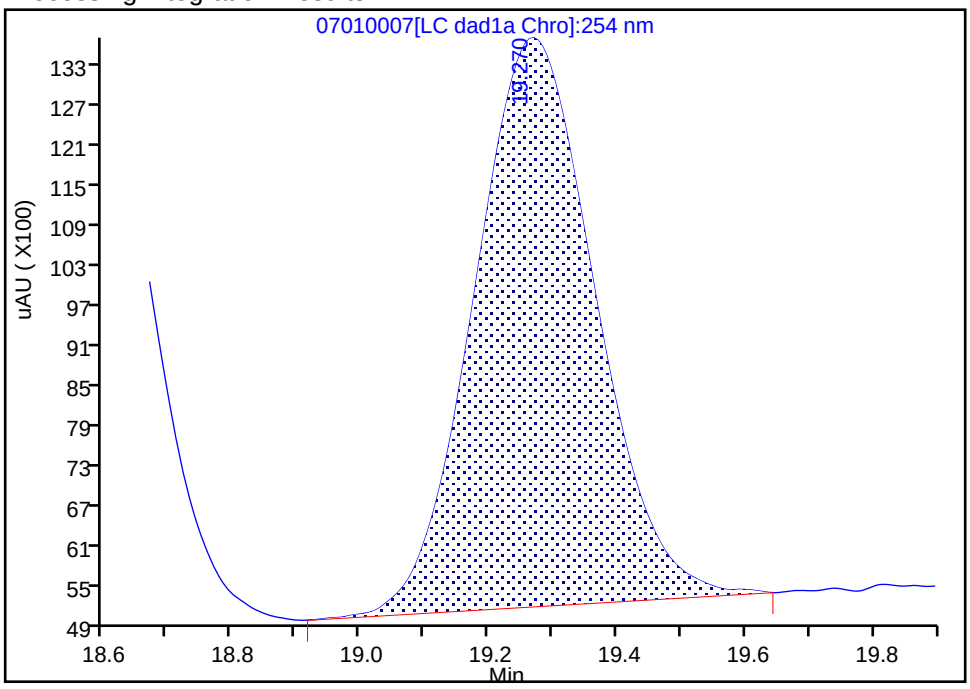
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010007.d				
Injection Date:	01-Jul-2020 22:21:49	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

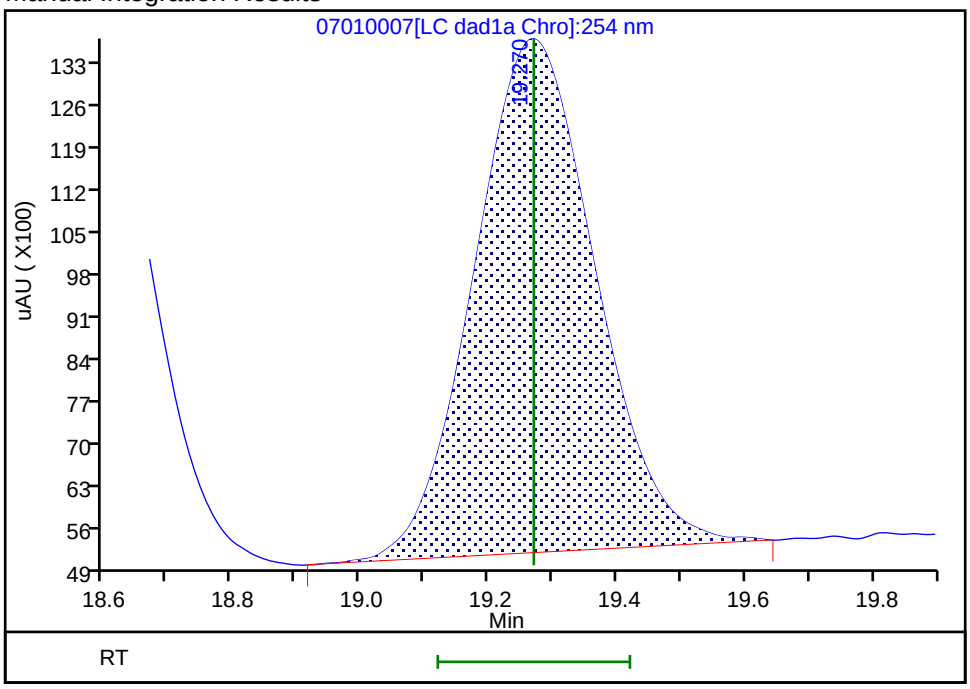
Processing Integration Results

RT: 19.27
Area: 111981
Amount: 0.237022
Amount Units: ug/ml



Manual Integration Results

RT: 19.27
Area: 111632
Amount: 0.236283
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 22:58:02
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

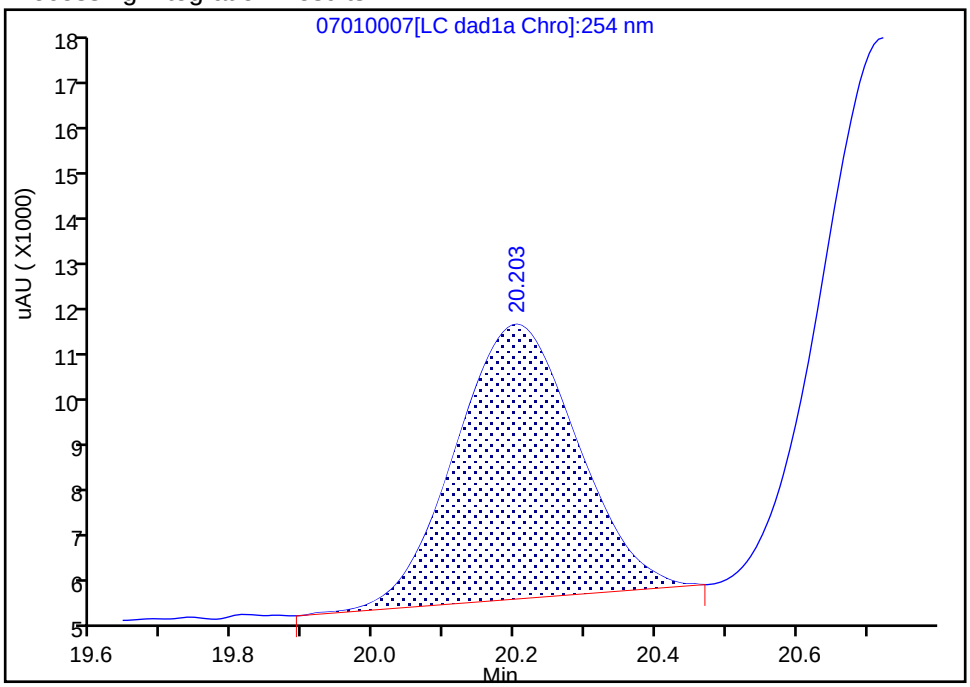
Data File: \\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010007.d
Injection Date: 01-Jul-2020 22:21:49 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

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

Signal: 1

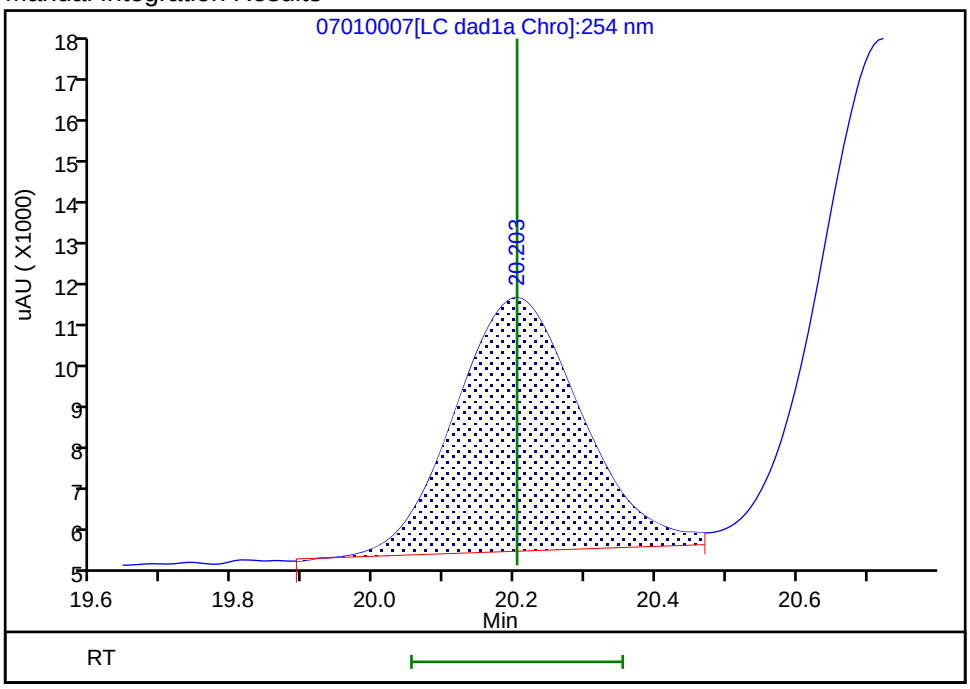
Processing Integration Results

RT: 20.20
Area: 68491
Amount: 0.221477
Amount Units: ug/ml



Manual Integration Results

RT: 20.20
Area: 72284
Amount: 0.234591
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 22:58:02
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

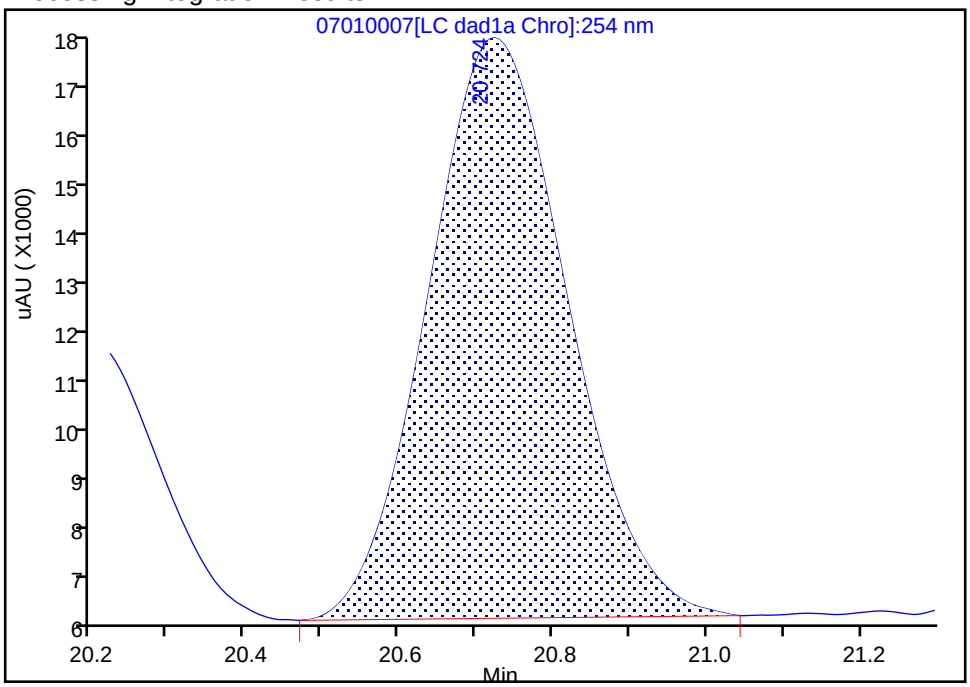
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010007.d				
Injection Date:	01-Jul-2020 22:21:49	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

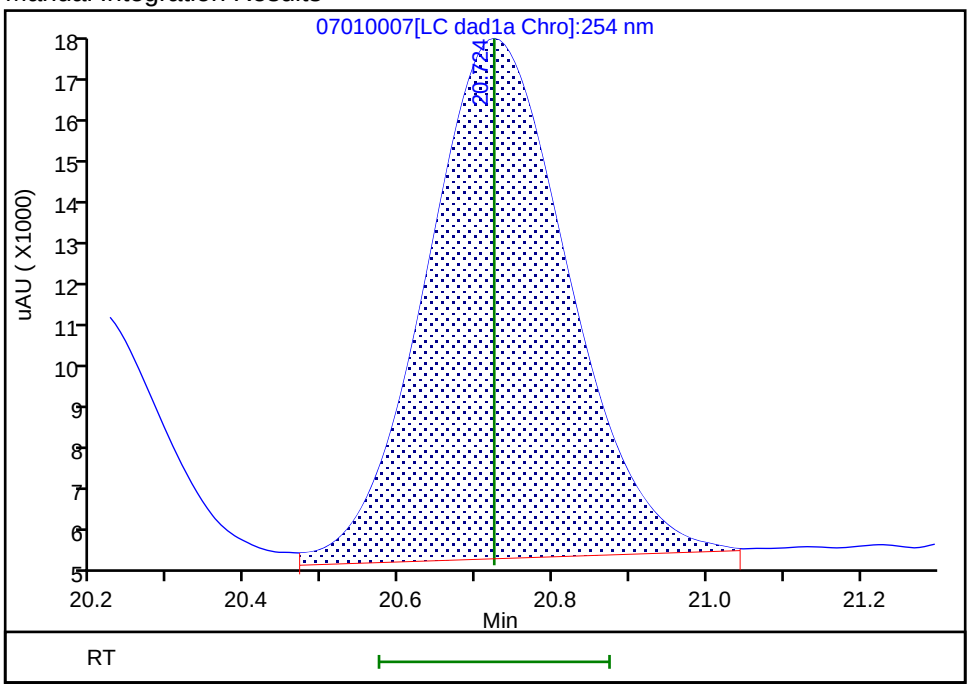
Processing Integration Results

RT: 20.72
Area: 142481
Amount: 0.222587
Amount Units: ug/ml



Manual Integration Results

RT: 20.72
Area: 147796
Amount: 0.230890
Amount Units: ug/ml



Reviewer: zhangji, 01-Jul-2020 22:58:02
Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500847/8 Calibration Date: 07/01/2020 22:56

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 07010008.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	435816	404695		232	250	-7.1	15.0
DNX	Ave	321206	298745		233	250	-7.0	15.0
MNX	Lin2		275774		281	292	-3.6	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500847/8 Calibration Date: 07/01/2020 22:56

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 07010008.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.57	5.39	5.69
DNX	6.43	6.24	6.54
MNX	8.01	7.79	8.09

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\07010008.D
Lims ID: CCV DMT
Client ID:
Sample Type: CCV
Inject. Date: 01-Jul-2020 22:56:45 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV DMT
Misc. Info.: 280-0092951-008
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub13

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 02-Jul-2020 15:28:45 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1059

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.574	5.543	0.031	101275	0.2503	0.2324	
4 DNX	1	6.434	6.390	0.044	74761	0.2503	0.2328	
7 MNX	1	8.014	7.943	0.071	80457	0.2918	0.2812	

Reagents:

8330 DMT_00006 Amount Added: 12.50 Units: uL

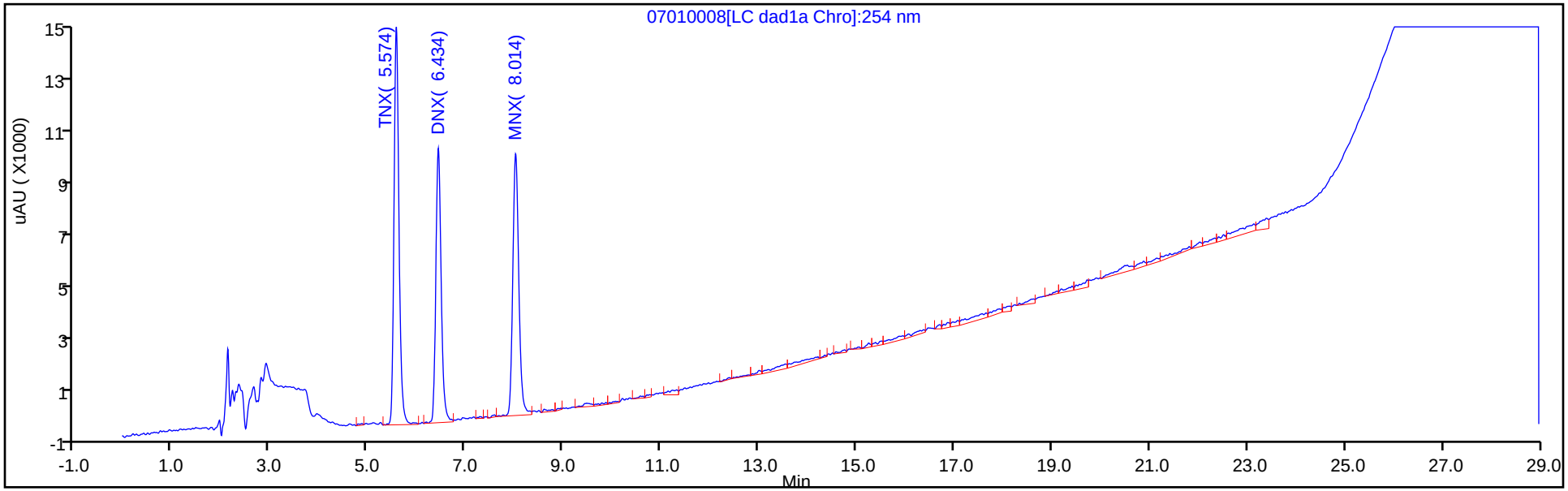
Report Date: 02-Jul-2020 15:28:45 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

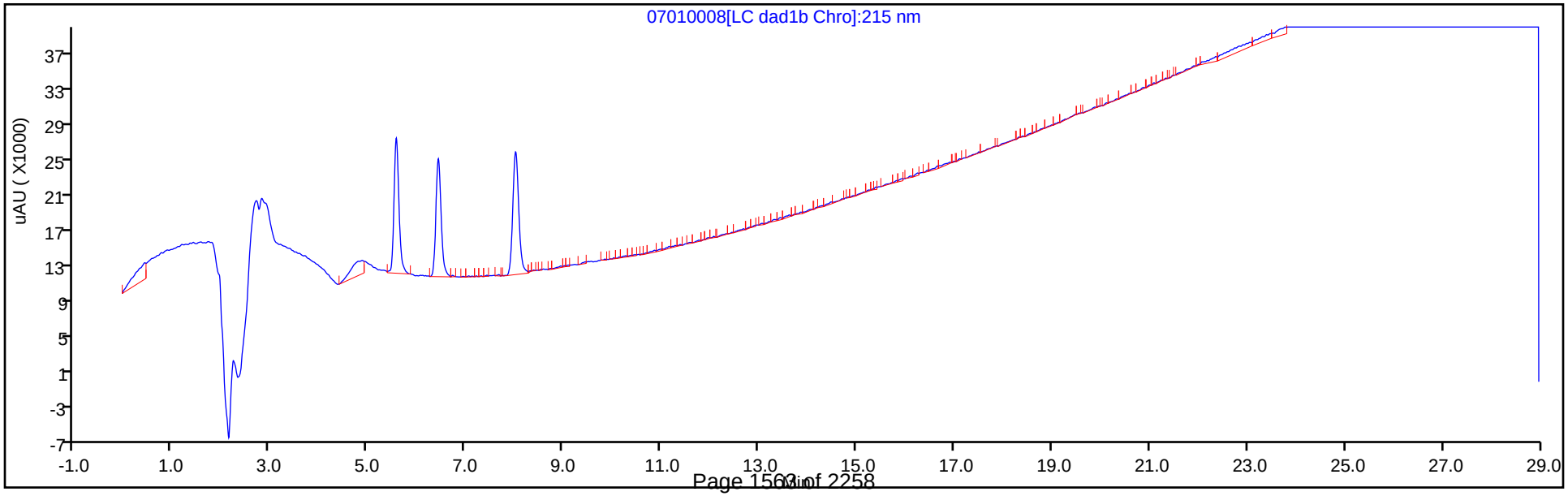
Data File: \\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010008.d

Injection Date:	01-Jul-2020 22:56:45	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	8
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500847/18 Calibration Date: 07/02/2020 04:46

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 07010018.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin2		181060		226	250	-9.7	15.0
Picric acid	Ave	193810	178044		230	250	-8.1	15.0
RDX	Ave	244360	229344		235	250	-6.1	15.0
Nitrobenzene	Ave	439227	401004		229	251	-8.7	15.0
1,3-Dinitrobenzene	Ave	674189	668575		248	251	-0.8	15.0
Nitroglycerin	Ave	126803	138790		2740	2500	9.5	15.0
2-Nitrotoluene	Ave	272965	256768		235	250	-5.9	15.0
4-Nitrotoluene	Ave	240881	233513		243	251	-3.1	15.0
4-Amino-2,6-dinitrotoluene	Ave	345235	311560		226	250	-9.8	15.0
3-Nitrotoluene	Ave	298327	286026		240	250	-4.1	15.0
2-Amino-4,6-dinitrotoluene	Ave	465211	433920		234	251	-6.7	15.0
1,3,5-Trinitrobenzene	Ave	472451	456858		242	251	-3.3	15.0
2,6-Dinitrotoluene	Lin2		304371		249	251	-0.9	15.0
2,4-Dinitrotoluene	Ave	640113	607793		238	251	-5.0	15.0
Tetryl	Ave	368678	335337		228	251	-9.0	15.0
2,4,6-Trinitrotoluene	Lin1		390574		236	251	-5.9	15.0
PETN	Lin1		141617		2530	2500	1.1	15.0
1,2-Dinitrobenzene	Lin1		283048		249	250	-0.6	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500847/18 Calibration Date: 07/02/2020 04:46

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 16:16

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/14/2020 20:56

Lab File ID: 07010018.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	7.25	7.09	7.39
Picric acid	8.85	8.45	8.75
RDX	9.47	9.33	9.63
Nitrobenzene	12.35	12.22	12.52
1,3-Dinitrobenzene	15.91	15.79	16.09
Nitroglycerin	16.14	16.03	16.33
2-Nitrotoluene	16.82	16.71	17.01
4-Nitrotoluene	17.11	17.00	17.30
4-Amino-2,6-dinitrotoluene	17.60	17.48	17.78
3-Nitrotoluene	18.04	17.93	18.23
2-Amino-4,6-dinitrotoluene	18.56	18.44	18.74
1,3,5-Trinitrobenzene	19.24	19.12	19.42
2,6-Dinitrotoluene	20.17	20.05	20.35
2,4-Dinitrotoluene	20.69	20.57	20.87
Tetryl	24.02	23.90	24.20
2,4,6-Trinitrotoluene	24.99	24.88	25.18
PETN	25.51	25.39	25.69
1,2-Dinitrobenzene	13.39	13.27	13.57

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\07010018.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 02-Jul-2020 04:46:27 ALS Bottle#: 7 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 280-0092951-018
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub6

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 02-Jul-2020 15:28:50 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1059

First Level Reviewer: zhangji Date: 02-Jul-2020 15:23:17

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 2,6-diamino-4-nitrotoluene	1	4.472	4.477	-0.005	107847	0.2500	0.2512	
	2 2,4-diamino-6-nitrotoluene	1	5.039	5.030	0.009	69156	0.2500	0.2676	
	6 HMX	1	7.245	7.244	0.001	45265	0.2500	0.2256	
	5 2,4,6-Trinitrophenol	1	8.852	8.604	0.248	44511	0.2500	0.2297	a
	8 RDX	1	9.465	9.477	-0.012	57336	0.2500	0.2346	
	9 Nitrobenzene	1	12.345	12.370	-0.025	100652	0.2510	0.2292	M
$	10 1,2-Dinitrobenzene	1	13.385	13.417	-0.032	70762	0.2500	0.2486	M
	11 3,5-Dinitroaniline	1	15.358	15.383	-0.025	125179	0.2500	0.2524	M
	12 1,3-Dinitrobenzene	1	15.912	15.943	-0.031	167478	0.2505	0.2484	M
	13 Nitroglycerin	2	16.138	16.183	-0.045	346976	2.50	2.74	M
	14 o-Nitrotoluene	1	16.818	16.863	-0.045	64192	0.2500	0.2352	M
	15 p-Nitrotoluene	1	17.105	17.150	-0.045	58495	0.2505	0.2428	M
	16 4-Amino-2,6-dinitrotoluene	1	17.598	17.630	-0.032	77968	0.2503	0.2258	M
	17 m-Nitrotoluene	1	18.038	18.083	-0.045	71578	0.2503	0.2399	M
	18 2-Amino-4,6-dinitrotoluene	1	18.558	18.590	-0.032	108914	0.2510	0.2341	M
	19 1,3,5-Trinitrobenzene	1	19.238	19.270	-0.032	114443	0.2505	0.2422	M
	20 2,6-Dinitrotoluene	1	20.165	20.203	-0.038	76397	0.2510	0.2488	M
	21 2,4-Dinitrotoluene	1	20.692	20.724	-0.031	152556	0.2510	0.2383	M
	22 Tetryl	1	24.019	24.050	-0.031	84002	0.2505	0.2278	
	23 2,4,6-Trinitrotoluene	1	24.992	25.030	-0.038	98034	0.2510	0.2362	
	24 PETN	2	25.505	25.544	-0.039	354042	2.50	2.53	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8330IntermStk_00064	Amount Added:	25.00	Units: uL
8330_ADDs_00027	Amount Added:	12.50	Units: uL

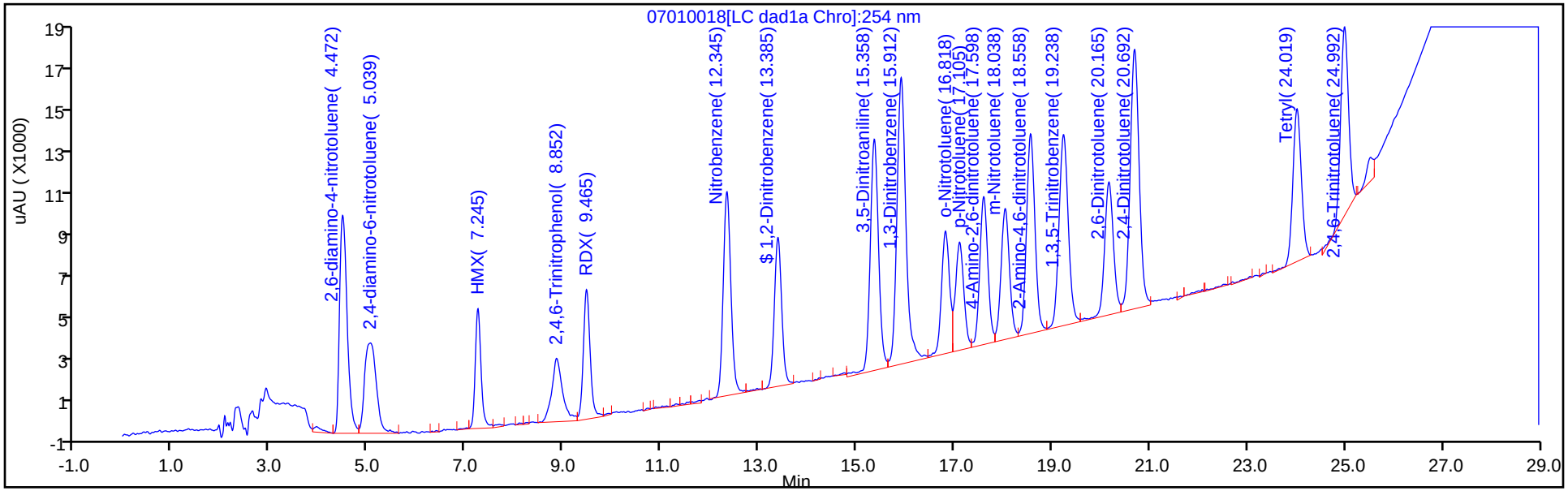
Report Date: 02-Jul-2020 15:28:50 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

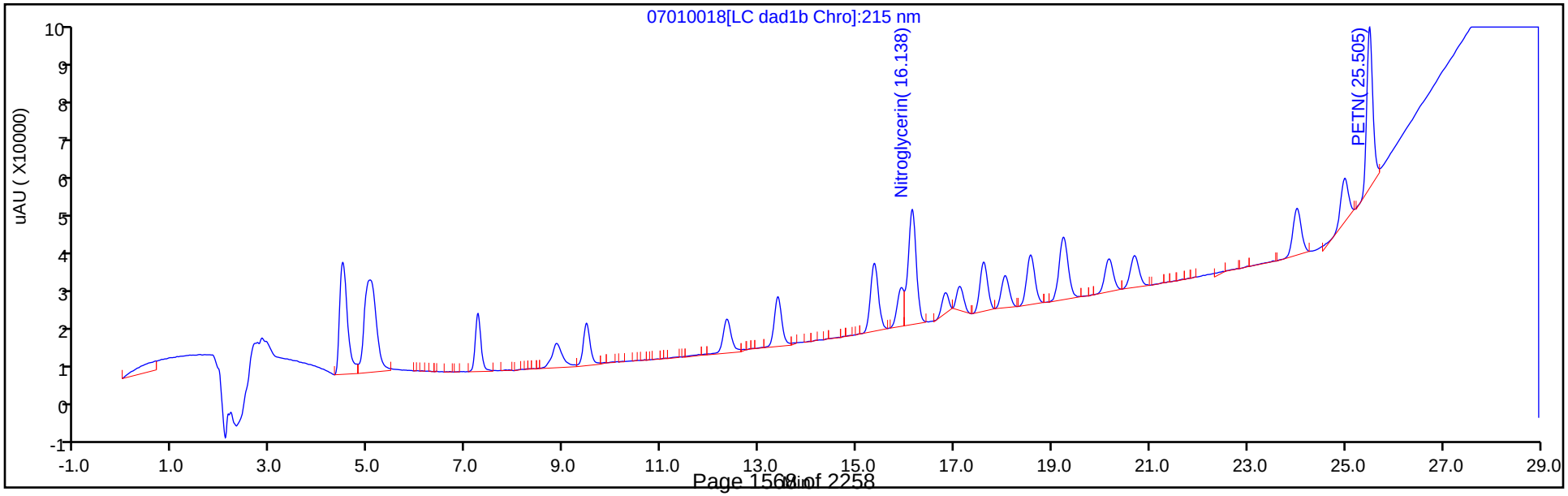
Data File: \\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010018.d

Injection Date:	02-Jul-2020 04:46:27	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV			Worklist Smp#:	18
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

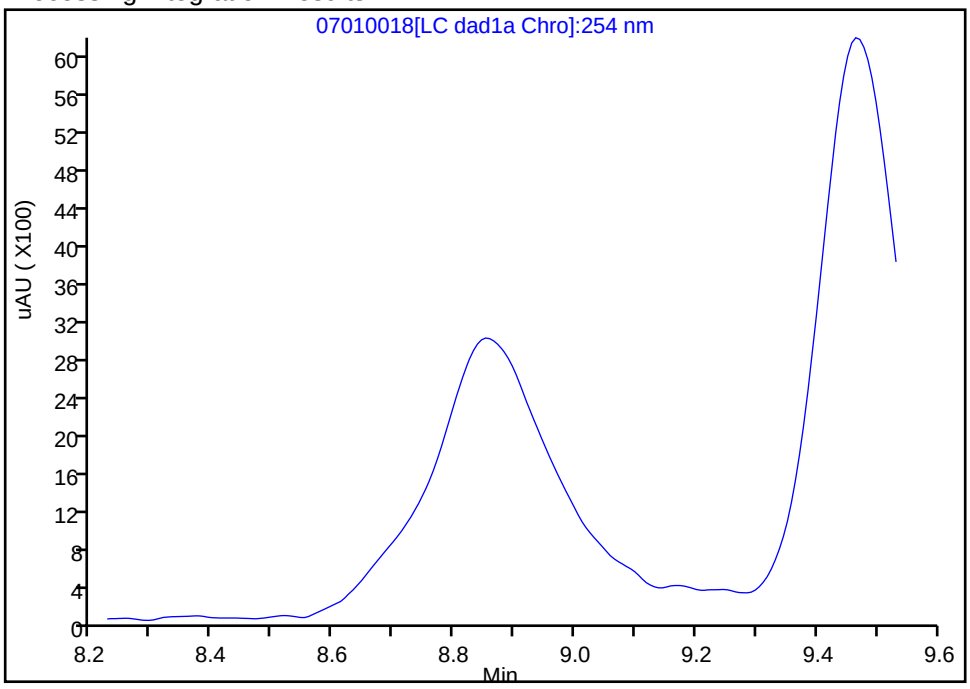
Data File: \\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010018.d
Injection Date: 02-Jul-2020 04:46:27 Instrument ID: CHHPLC_G2_LUNA
Lims ID: CCV
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 18
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: G2_8330_Luna Limit Group: GCSV - 8330
Column: Luna-Phenyl hexyl (4.60 mm) Detector LC DAD1A, 254 nm

5 2,4,6-Trinitrophenol, CAS: 88-89-1

Signal: 1

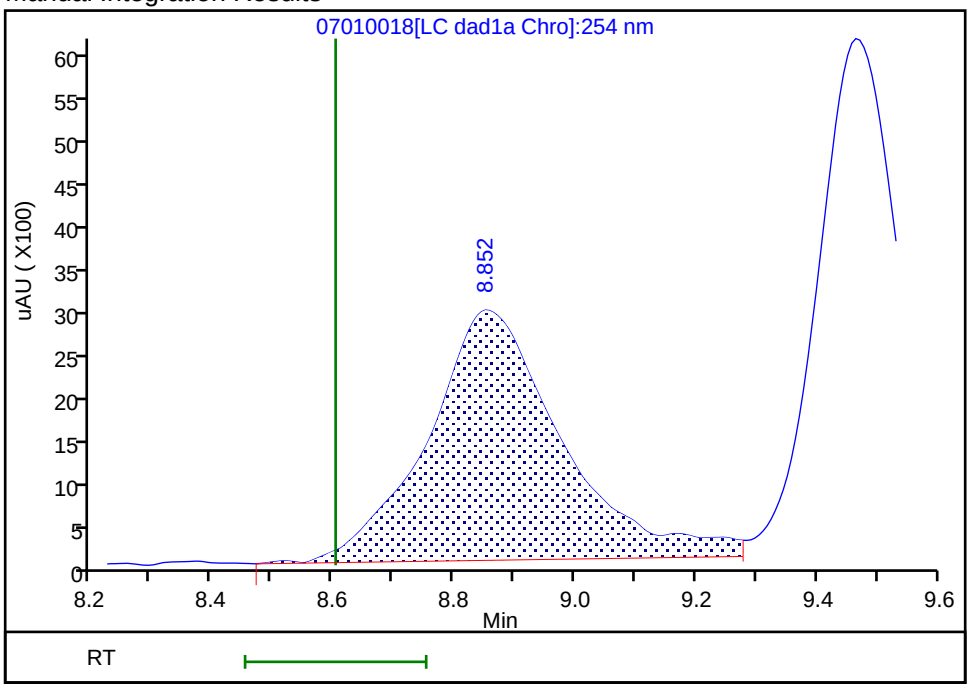
Not Detected
Expected RT: 8.60

Processing Integration Results



Manual Integration Results

RT: 8.85
Area: 44511
Amount: 0.229663
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:22:58
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

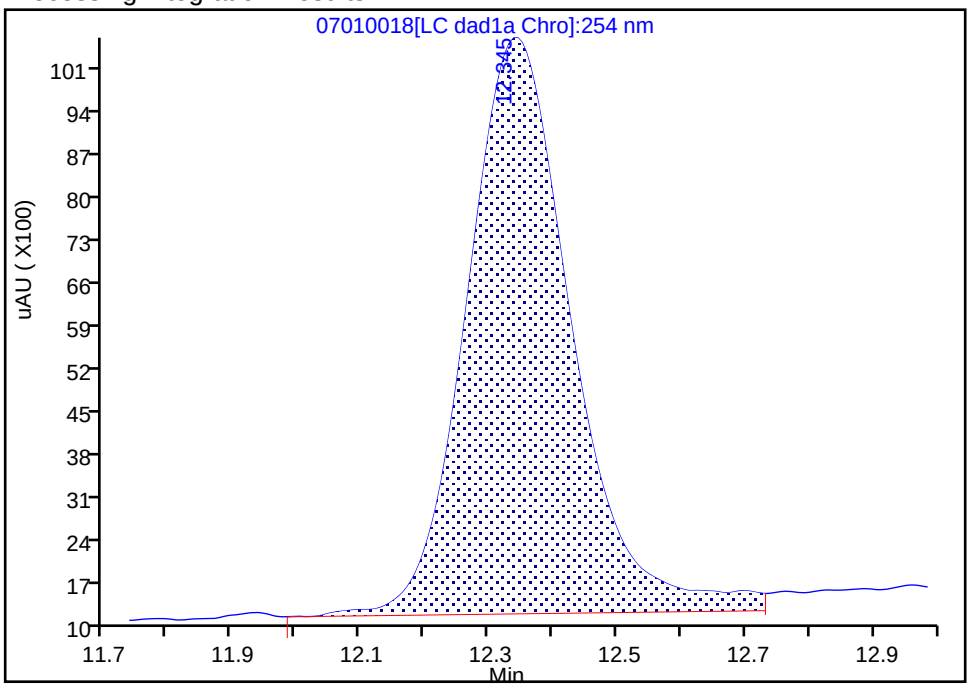
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010018.d				
Injection Date:	02-Jul-2020 04:46:27	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

9 Nitrobenzene, CAS: 98-95-3

Signal: 1

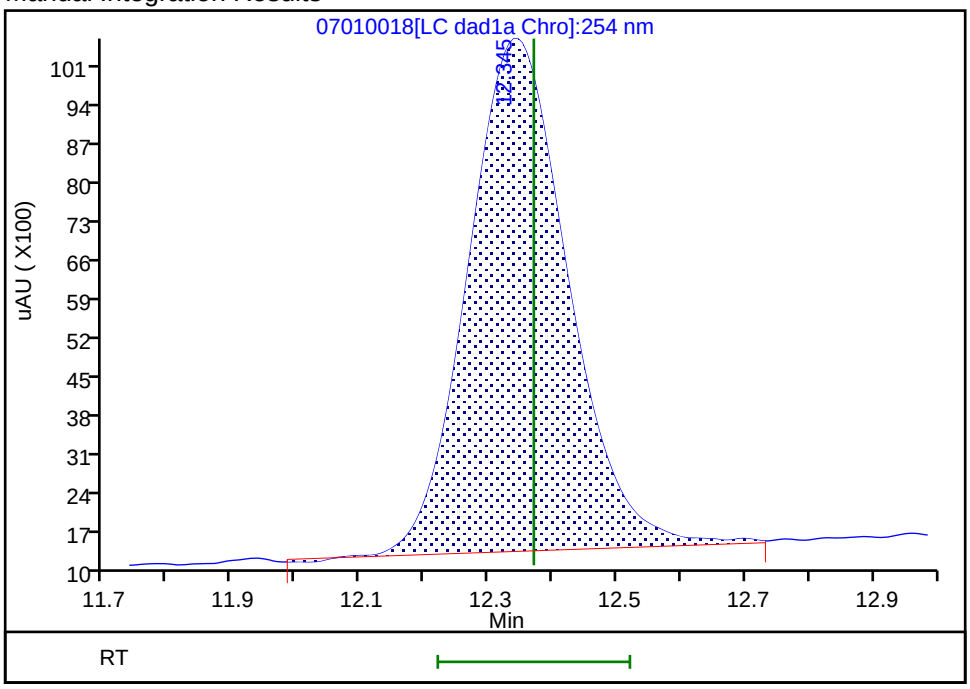
Processing Integration Results

RT: 12.35
Area: 107282
Amount: 0.244252
Amount Units: ug/ml



Manual Integration Results

RT: 12.35
Area: 100652
Amount: 0.229157
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:23:15
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

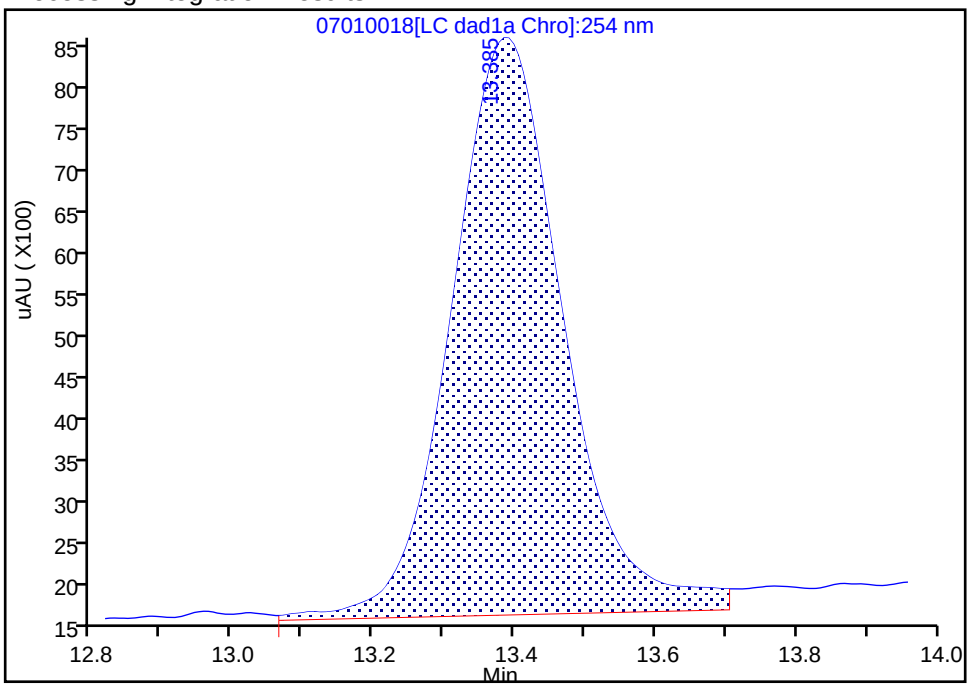
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010018.d				
Injection Date:	02-Jul-2020 04:46:27	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

$ 10 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

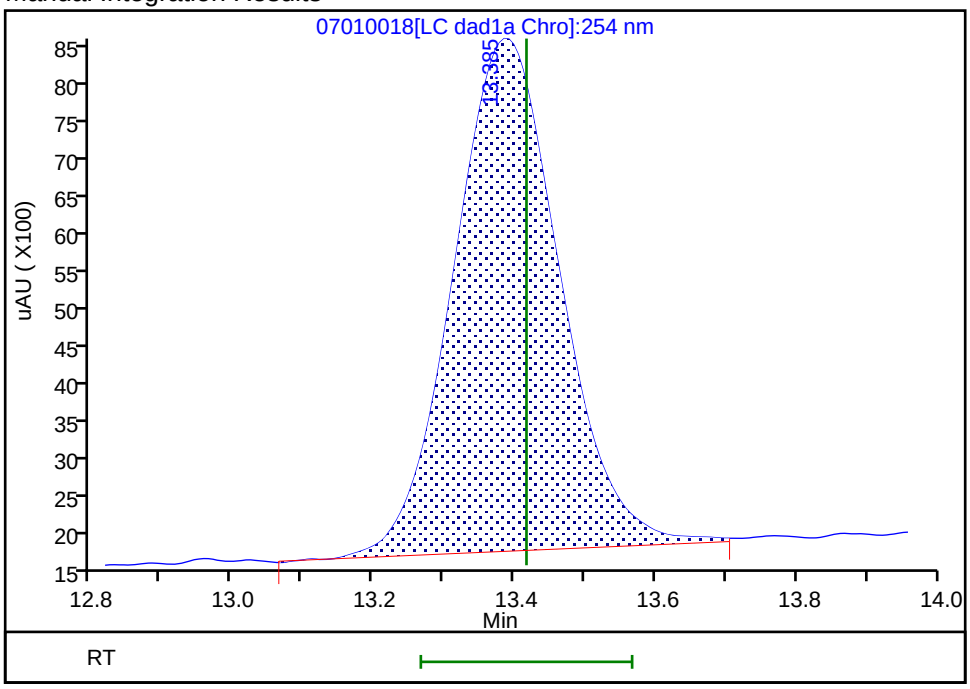
Processing Integration Results

RT: 13.39
Area: 76157
Amount: 0.268075
Amount Units: ug/ml



Manual Integration Results

RT: 13.39
Area: 70762
Amount: 0.248615
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:23:15
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

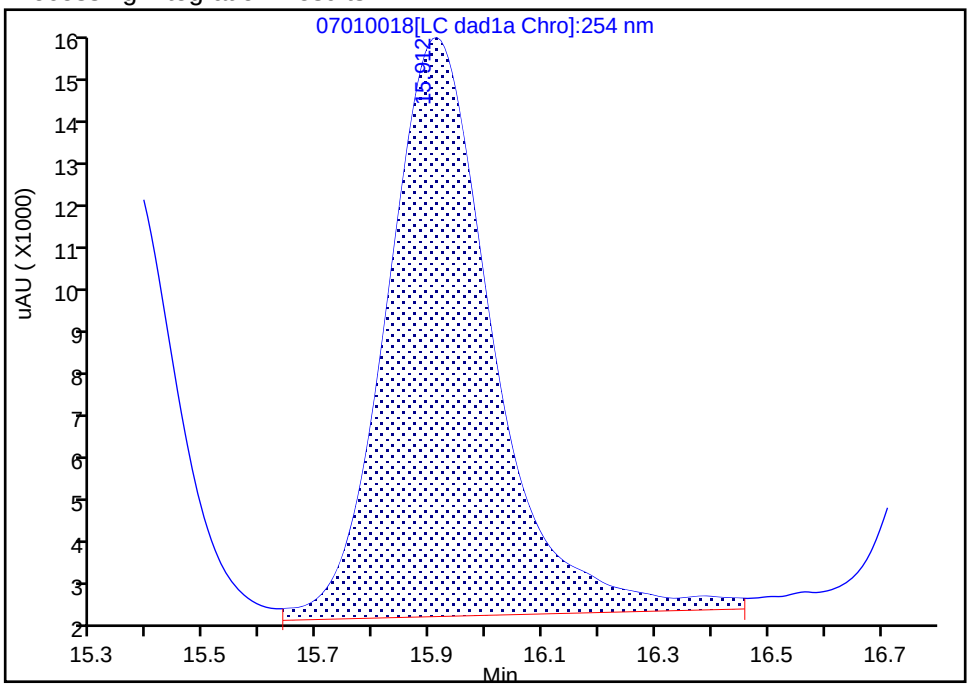
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010018.d				
Injection Date:	02-Jul-2020 04:46:27	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

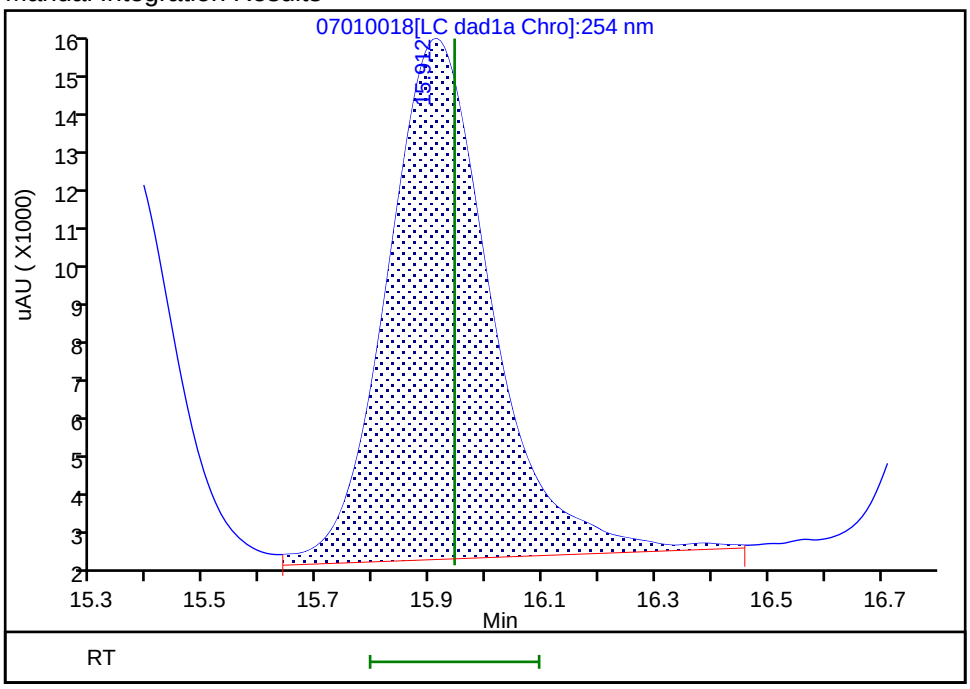
Processing Integration Results

RT: 15.91
Area: 171537
Amount: 0.254435
Amount Units: ug/ml



Manual Integration Results

RT: 15.91
Area: 167478
Amount: 0.248414
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:23:06
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

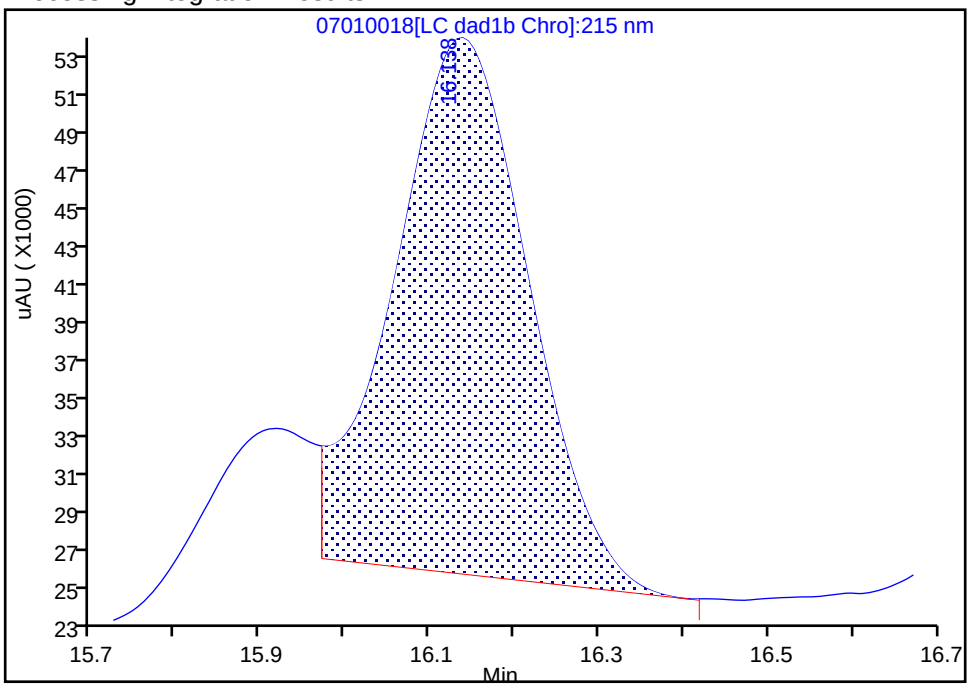
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010018.d		
Injection Date:	02-Jul-2020 04:46:27	Instrument ID:	CHHPLC_G2_LUNA
Lims ID:	CCV		
Client ID:			
Operator ID:	JZ	ALS Bottle#:	7 Worklist Smp#: 18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330
Column:		Detector	LC DAD1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

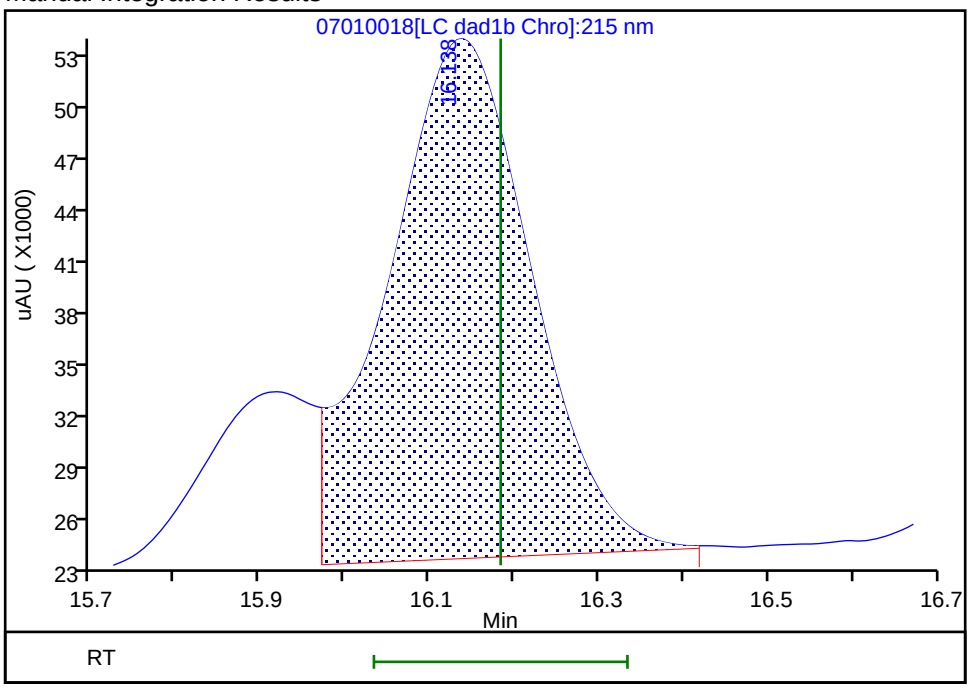
Processing Integration Results

RT: 16.14
Area: 304176
Amount: 2.398801
Amount Units: ug/ml



Manual Integration Results

RT: 16.14
Area: 346976
Amount: 2.736332
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:23:42
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

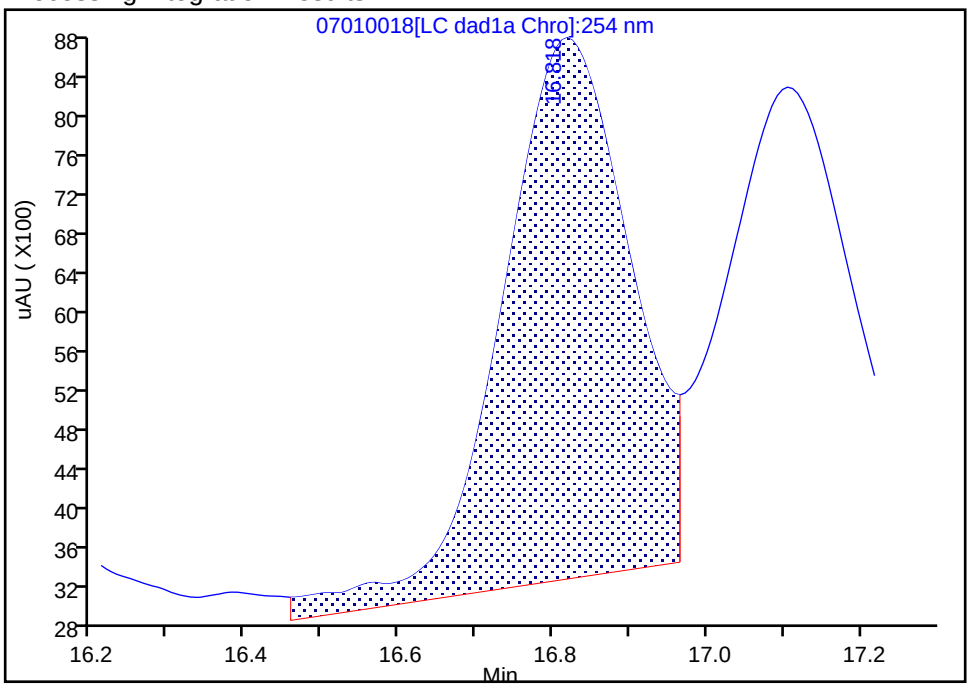
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010018.d				
Injection Date:	02-Jul-2020 04:46:27	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

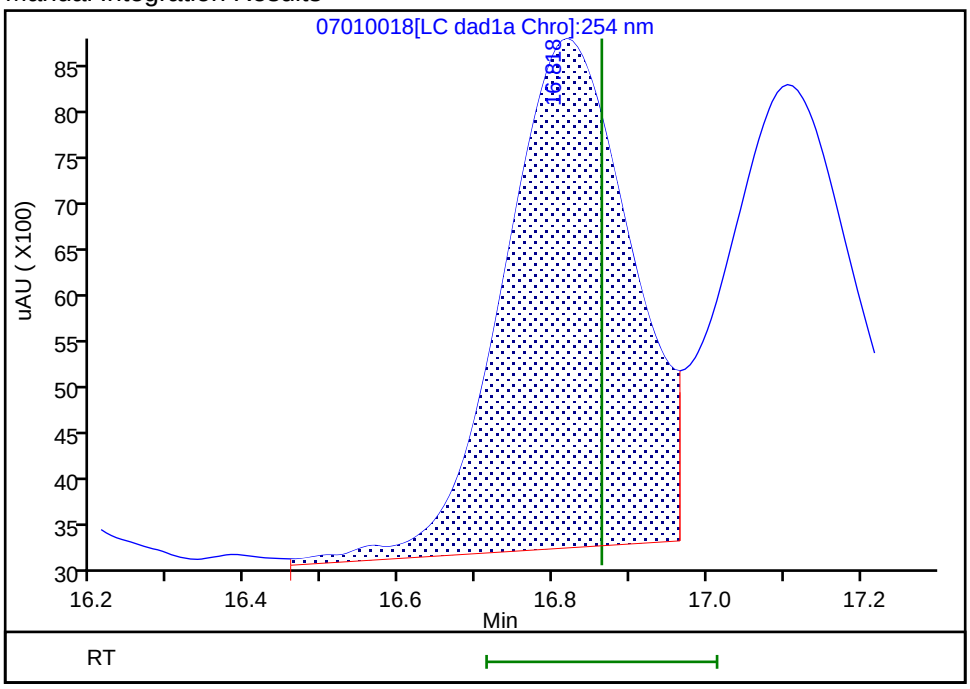
Processing Integration Results

RT: 16.82
Area: 64389
Amount: 0.235888
Amount Units: ug/ml



Manual Integration Results

RT: 16.82
Area: 64192
Amount: 0.235166
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:23:06
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

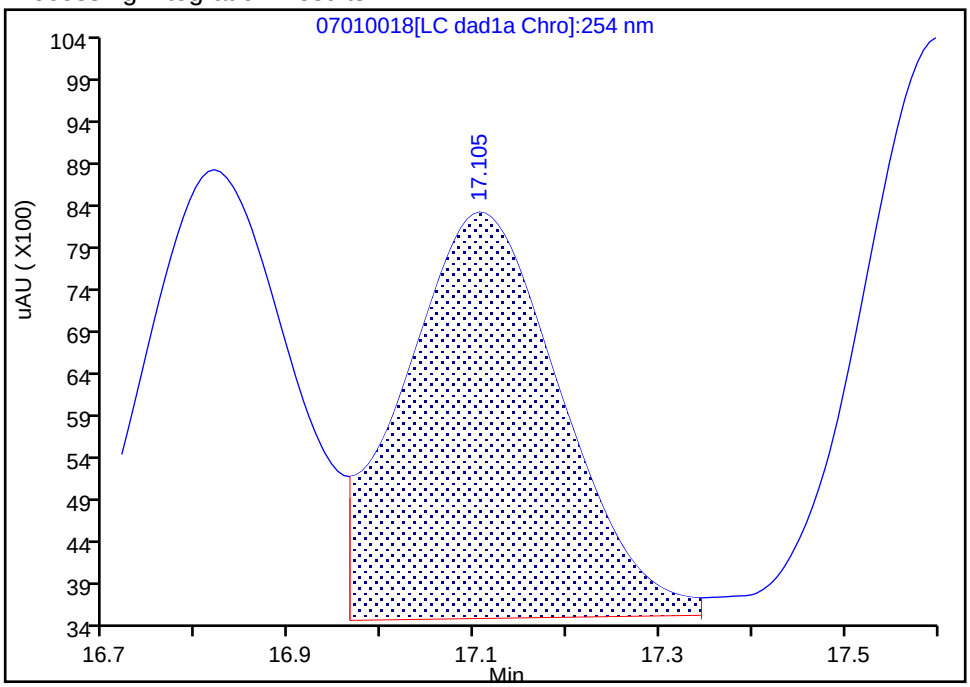
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010018.d				
Injection Date:	02-Jul-2020 04:46:27	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

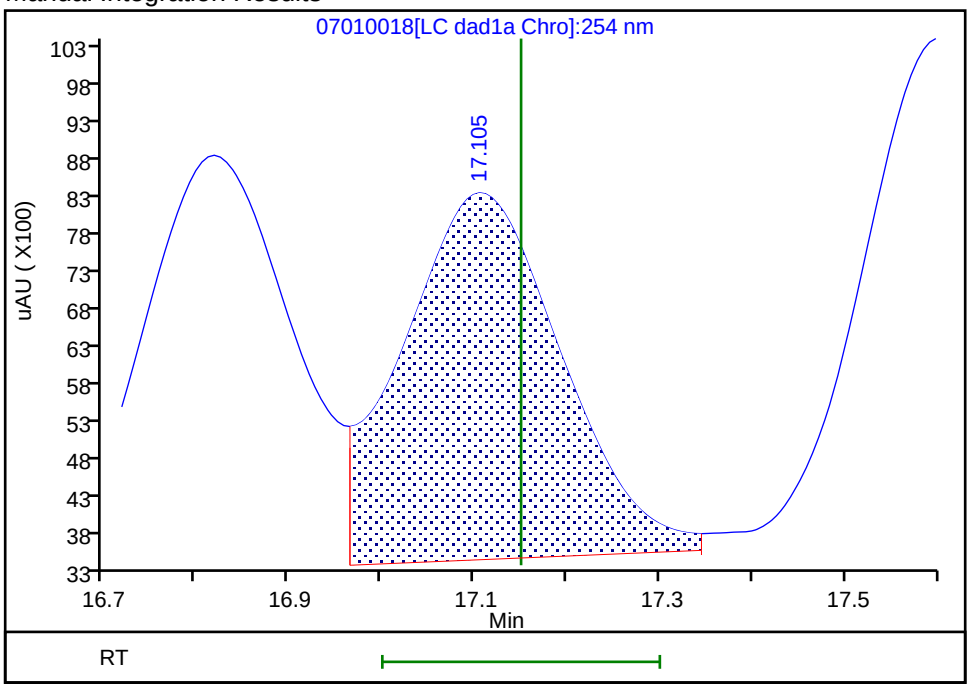
Processing Integration Results

RT: 17.11
Area: 56523
Amount: 0.234651
Amount Units: ug/ml



Manual Integration Results

RT: 17.11
Area: 58495
Amount: 0.242837
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:23:06
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

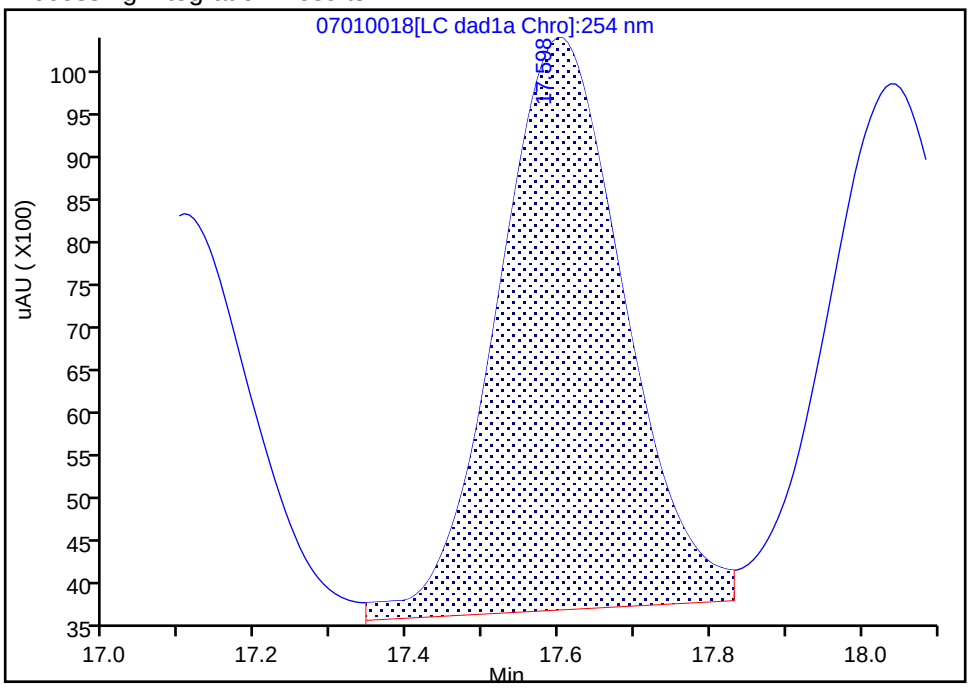
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010018.d				
Injection Date:	02-Jul-2020 04:46:27	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

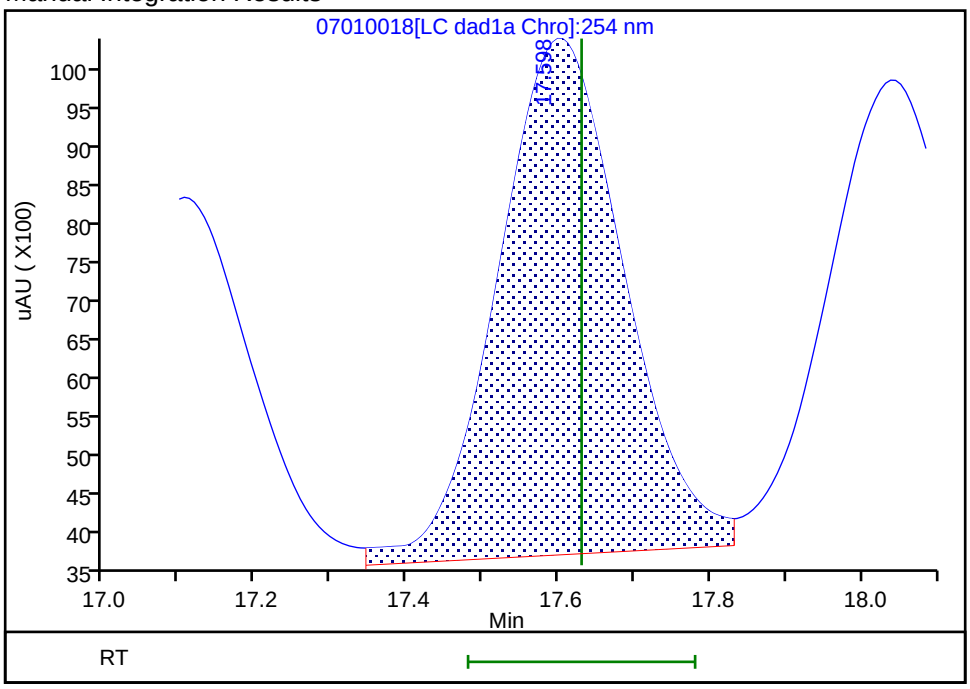
Processing Integration Results

RT: 17.60
Area: 77836
Amount: 0.225458
Amount Units: ug/ml



Manual Integration Results

RT: 17.60
Area: 77968
Amount: 0.225841
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:23:06
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

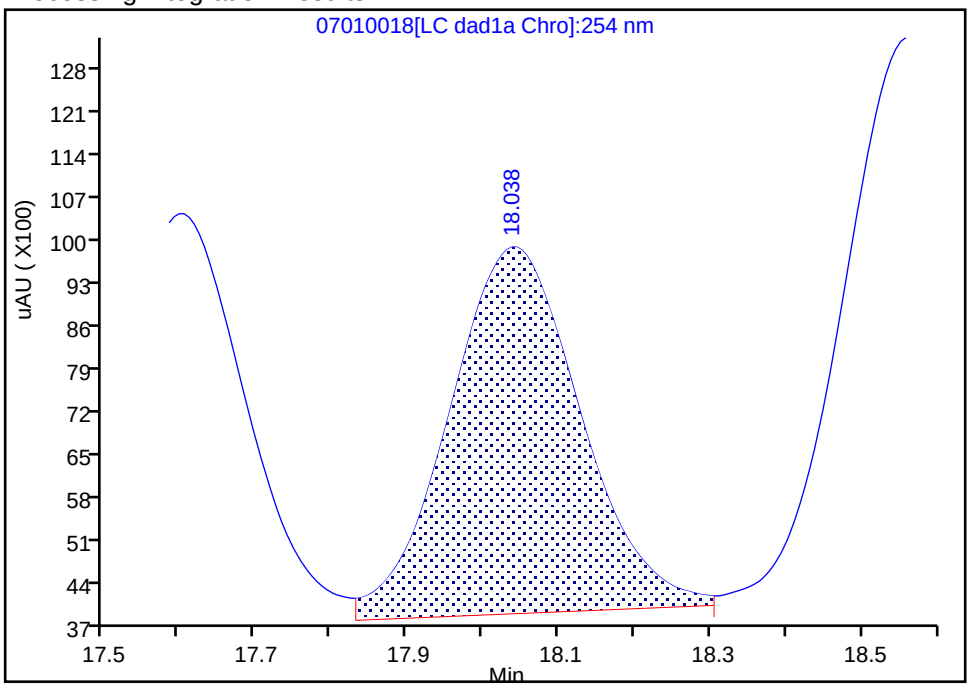
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010018.d				
Injection Date:	02-Jul-2020 04:46:27	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

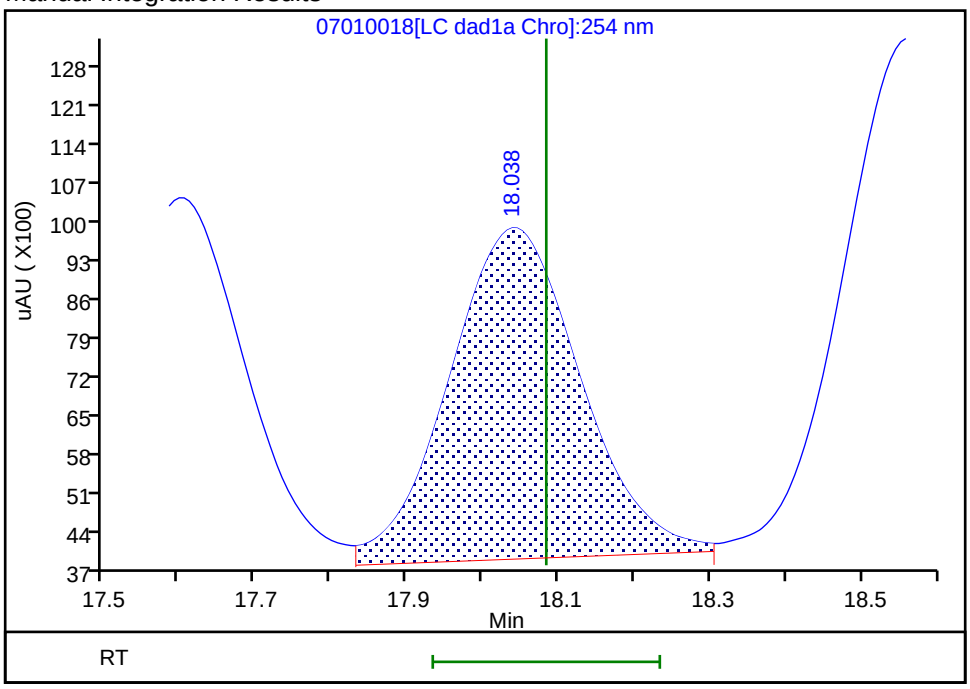
Processing Integration Results

RT: 18.04
Area: 71876
Amount: 0.240930
Amount Units: ug/ml



Manual Integration Results

RT: 18.04
Area: 71578
Amount: 0.239932
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:23:06
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

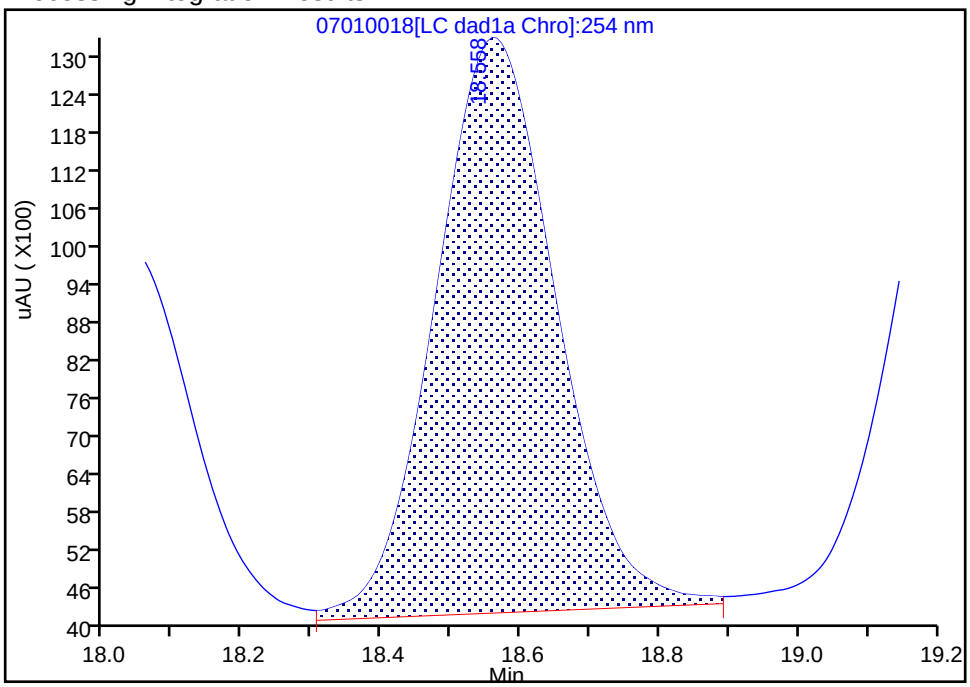
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010018.d				
Injection Date:	02-Jul-2020 04:46:27	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

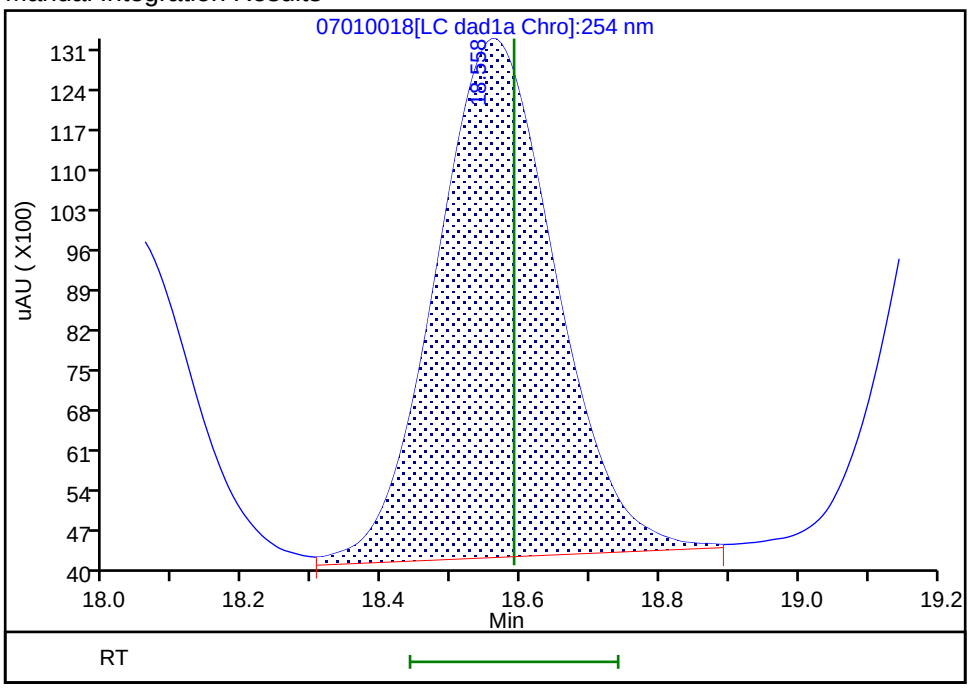
Processing Integration Results

RT: 18.56
Area: 110129
Amount: 0.236729
Amount Units: ug/ml



Manual Integration Results

RT: 18.56
Area: 108914
Amount: 0.234117
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:23:06
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

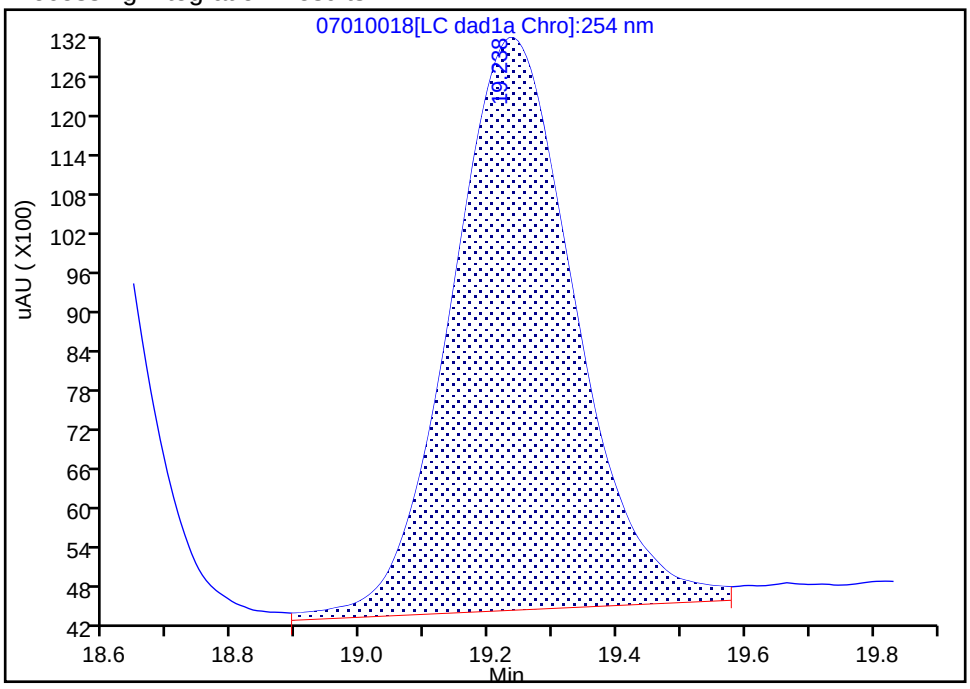
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010018.d				
Injection Date:	02-Jul-2020 04:46:27	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

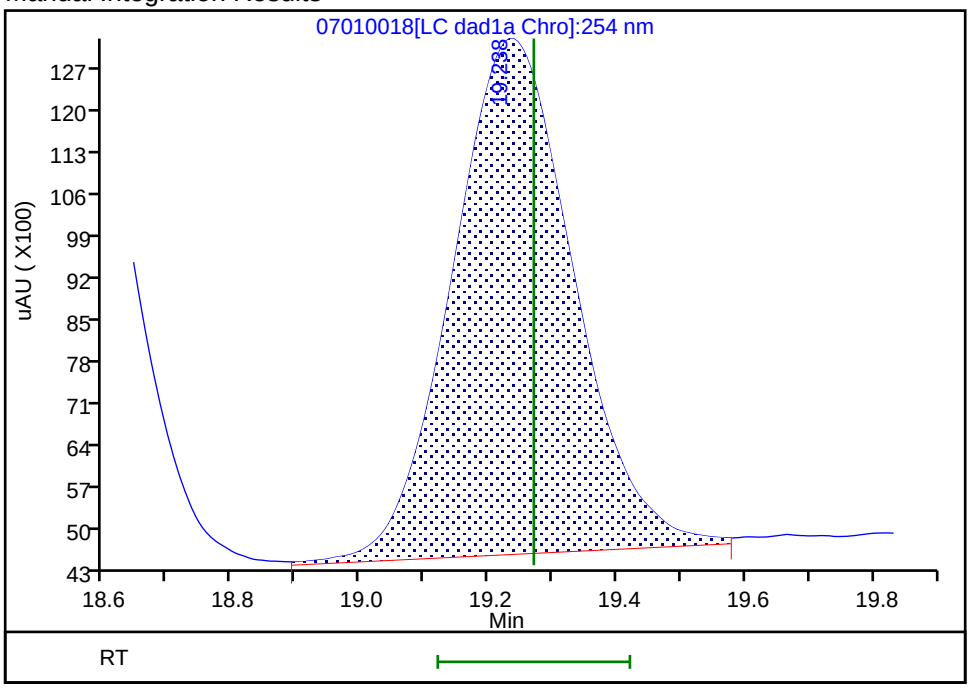
Processing Integration Results

RT: 19.24
Area: 117862
Amount: 0.249469
Amount Units: ug/ml



Manual Integration Results

RT: 19.24
Area: 114443
Amount: 0.242233
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:23:06
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

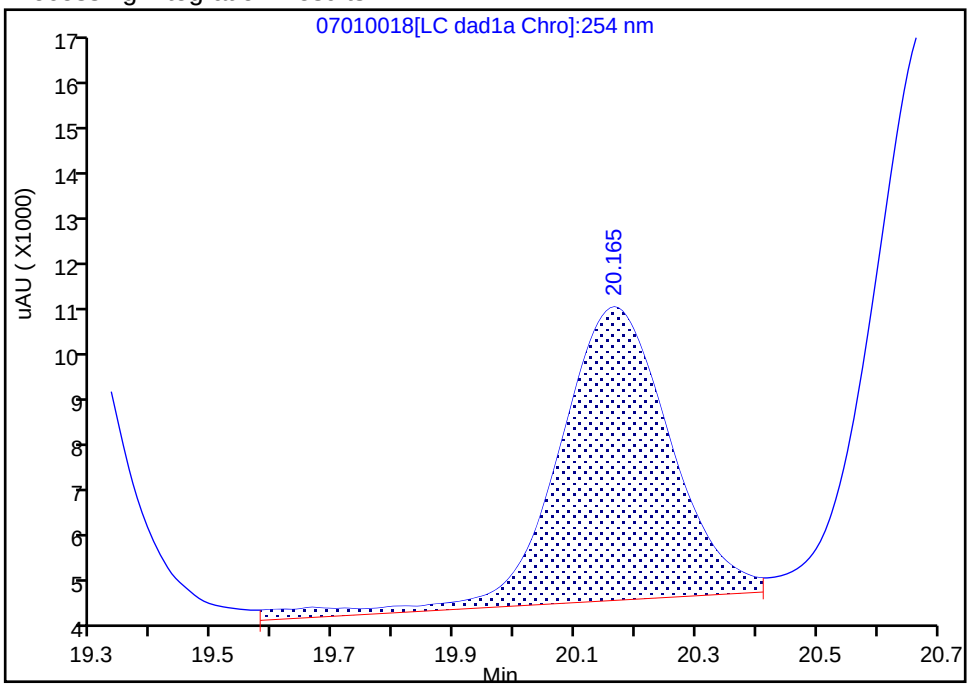
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010018.d				
Injection Date:	02-Jul-2020 04:46:27	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

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

Signal: 1

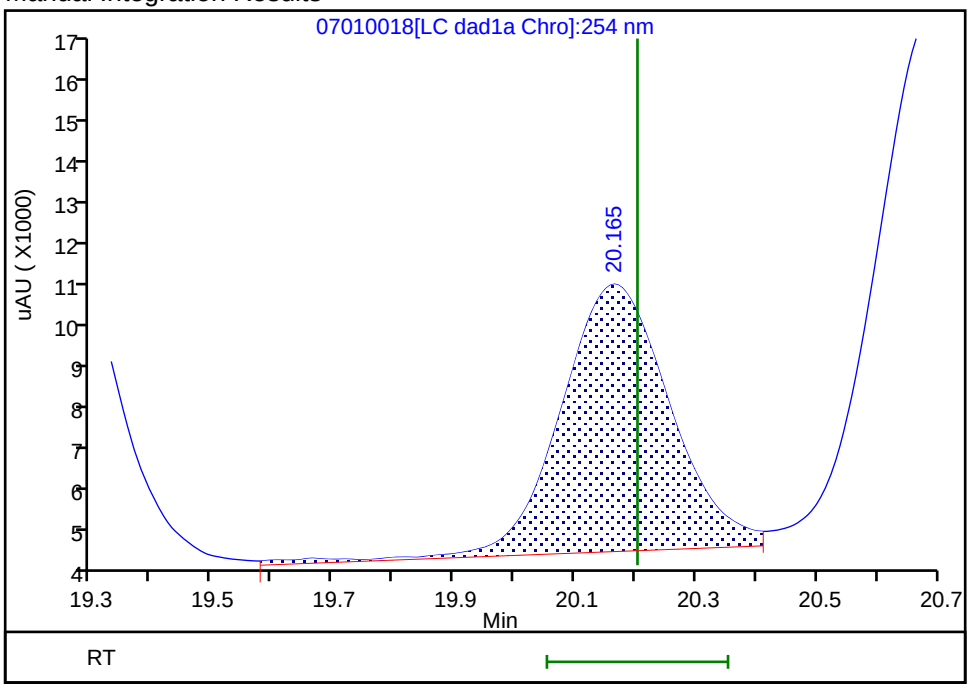
Processing Integration Results

RT: 20.17
Area: 78247
Amount: 0.255209
Amount Units: ug/ml



Manual Integration Results

RT: 20.17
Area: 76397
Amount: 0.248812
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:23:06
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

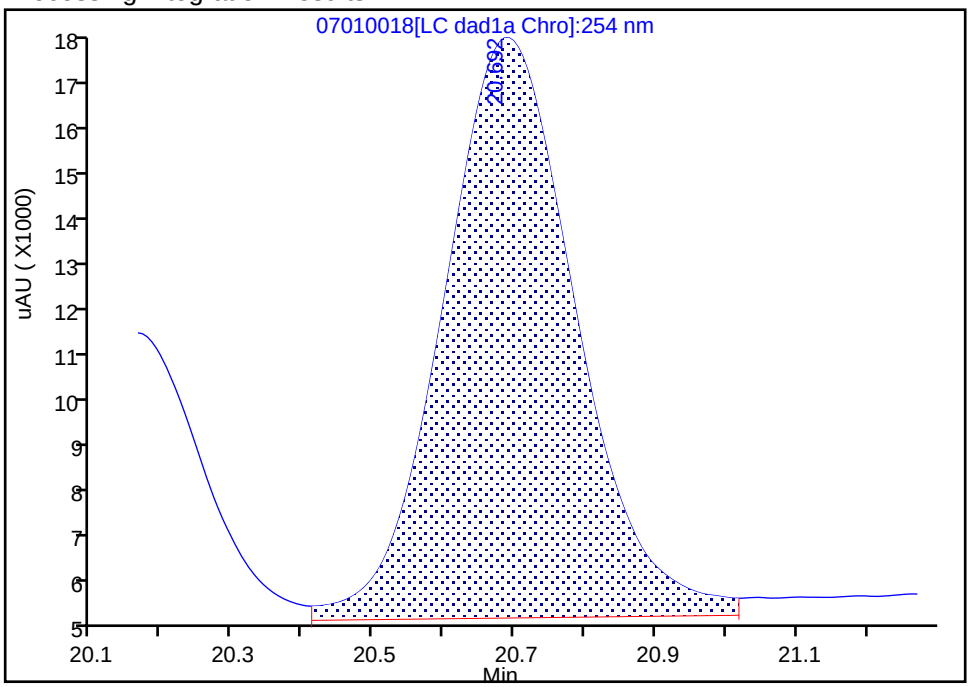
Data File:	\\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010018.d				
Injection Date:	02-Jul-2020 04:46:27	Instrument ID:	CHHPLC_G2_LUNA		
Lims ID:	CCV				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	18
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		
Column:	Luna-Phenyl hexyl (4.60 mm)	Detector	LC DAD1A, 254 nm		

21 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

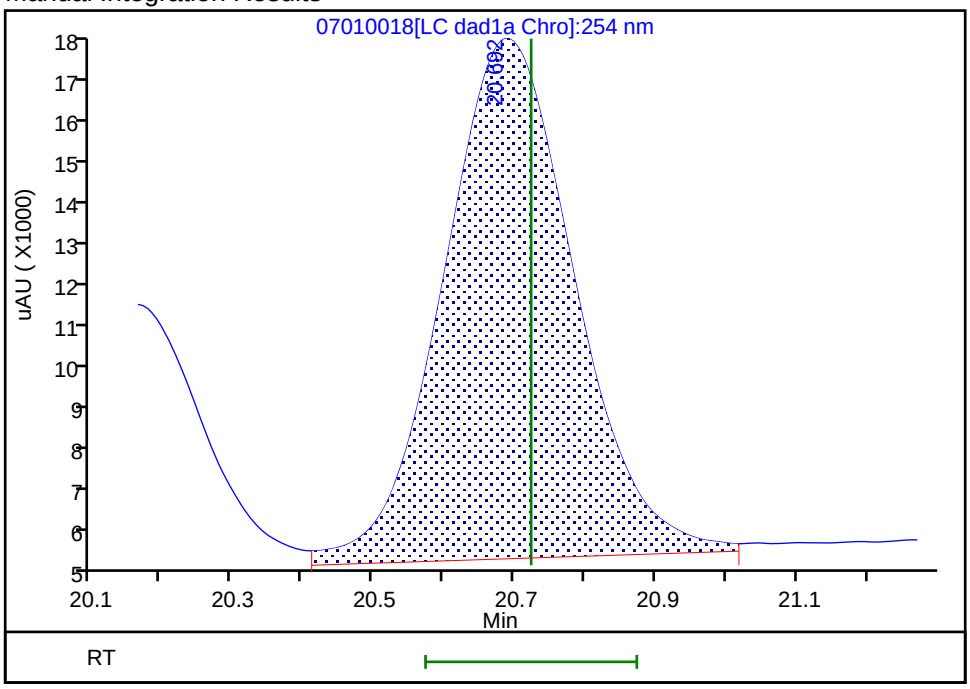
Processing Integration Results

RT: 20.69
Area: 155159
Amount: 0.242393
Amount Units: ug/ml



Manual Integration Results

RT: 20.69
Area: 152556
Amount: 0.238327
Amount Units: ug/ml



Reviewer: zhangji, 02-Jul-2020 15:23:06
Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500847/19 Calibration Date: 07/02/2020 05:21

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 07010019.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	435816	403684		232	250	-7.4	15.0
DNX	Ave	321206	298809		233	250	-7.0	15.0
MNX	Lin2		282715		289	292	-1.0	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500847/19 Calibration Date: 07/02/2020 05:21

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 05/14/2020 22:06

GC Column: Luna-phenylhex ID: 4.60(mm) Calib End Date: 05/15/2020 02:46

Lab File ID: 07010019.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.56	5.39	5.69
DNX	6.42	6.24	6.54
MNX	8.00	7.79	8.09

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\07010019.D
Lims ID: CCV DMT
Client ID:
Sample Type: CCV
Inject. Date: 02-Jul-2020 05:21:23 ALS Bottle#: 8 Worklist Smp#: 19
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV DMT
Misc. Info.: 280-0092951-019
Operator ID: JZ Instrument ID: CHHPLC_G2_LUNA
Sublist: chrom-G2_8330_Luna*sub13

Method: \\chromfs\Denver\ChromData\G2_LUNA\20200701-92951.b\G2_8330_Luna.m
Limit Group: GCSV - 8330
Last Update: 02-Jul-2020 15:28:51 Calib Date: 15-May-2020 02:11:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\G2_LUNA\20200514-91518.b\05140024.D

Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
Process Host: CTX1059

First Level Reviewer: zhangji Date: 02-Jul-2020 15:23:48

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.563	5.543	0.020	101022	0.2503	0.2318	
4 DNX	1	6.423	6.390	0.033	74777	0.2503	0.2328	
7 MNX	1	8.003	7.943	0.060	82482	0.2918	0.2888	

Reagents:

8330 DMT_00006 Amount Added: 12.50 Units: uL

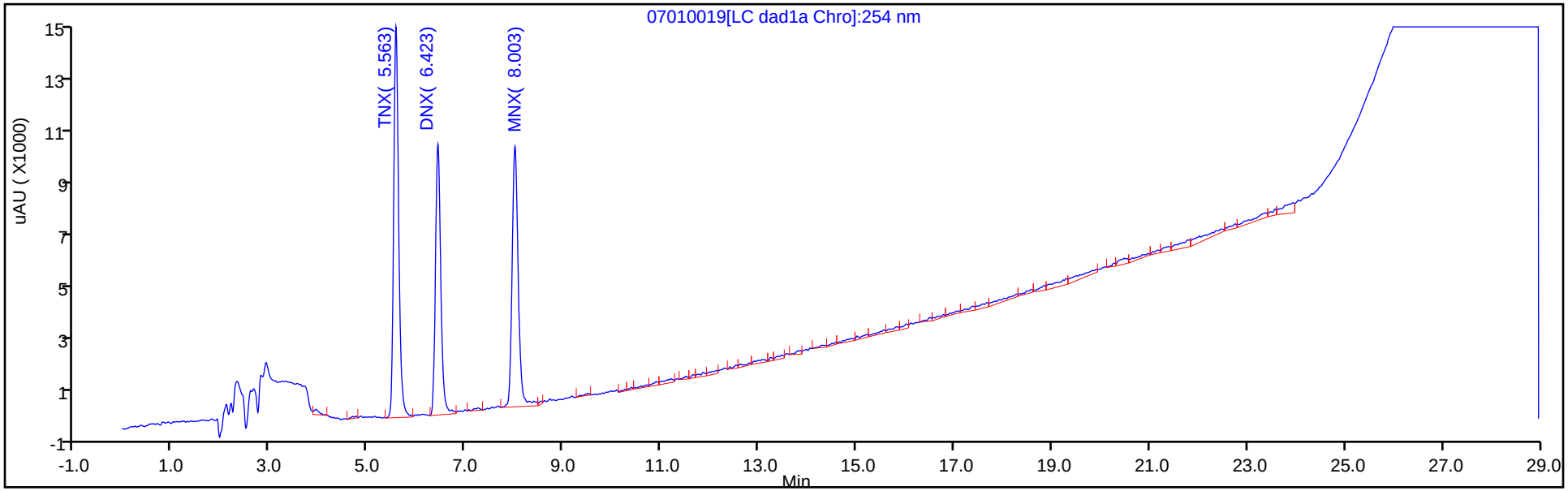
Report Date: 02-Jul-2020 15:28:51 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

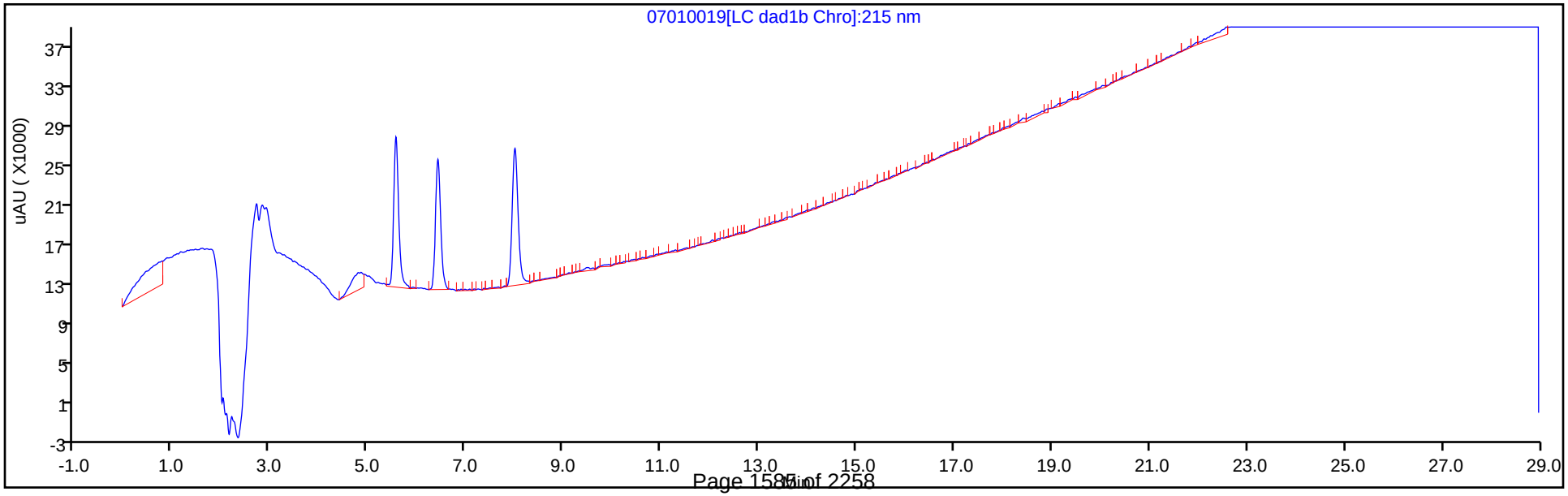
Data File: \\chromfs\denver\chromdata\g2_luna\20200701-92951.b\07010019.d

Injection Date:	02-Jul-2020 05:21:23	Instrument ID:	CHHPLC_G2_LUNA	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	19
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	G2_8330_Luna	Limit Group:	GCSV - 8330		

Column: Luna-Phenyl hexyl (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



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



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: ICV 280-487658/33 Calibration Date: 03/05/2020 00:03

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 03040033.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	189186		348	400	-13.1	15.0
DNX	Ave	152928	145270		380	400	-5.0	15.0
MNX	Ave	158544	136780		403	467	-13.7	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: ICV 280-487658/33 Calibration Date: 03/05/2020 00:03

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 03040033.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.59	6.49	6.69
DNX	6.91	6.81	7.01
MNX	7.36	7.21	7.51

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040033.D
Lims ID: ICV DMT
Client ID:
Sample Type: ICV
Inject. Date: 05-Mar-2020 00:03:48 ALS Bottle#: 33 Worklist Smp#: 33
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICV DMT
Misc. Info.: 280-0089779-033
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist:

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 06-Mar-2020 10:25:28 Calib Date: 04-Mar-2020 23:40:46
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040032.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 05-Mar-2020 08:37:53

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.594	6.594	0.000	75750	0.4004	0.3481	M
5 DNX	1	6.914	6.914	0.000	58166	0.4004	0.3803	M
6 MNX	1	7.361	7.361	0.000	63849	0.4668	0.4027	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330_OP_DMT_00006 Amount Added: 40.00 Units: uL

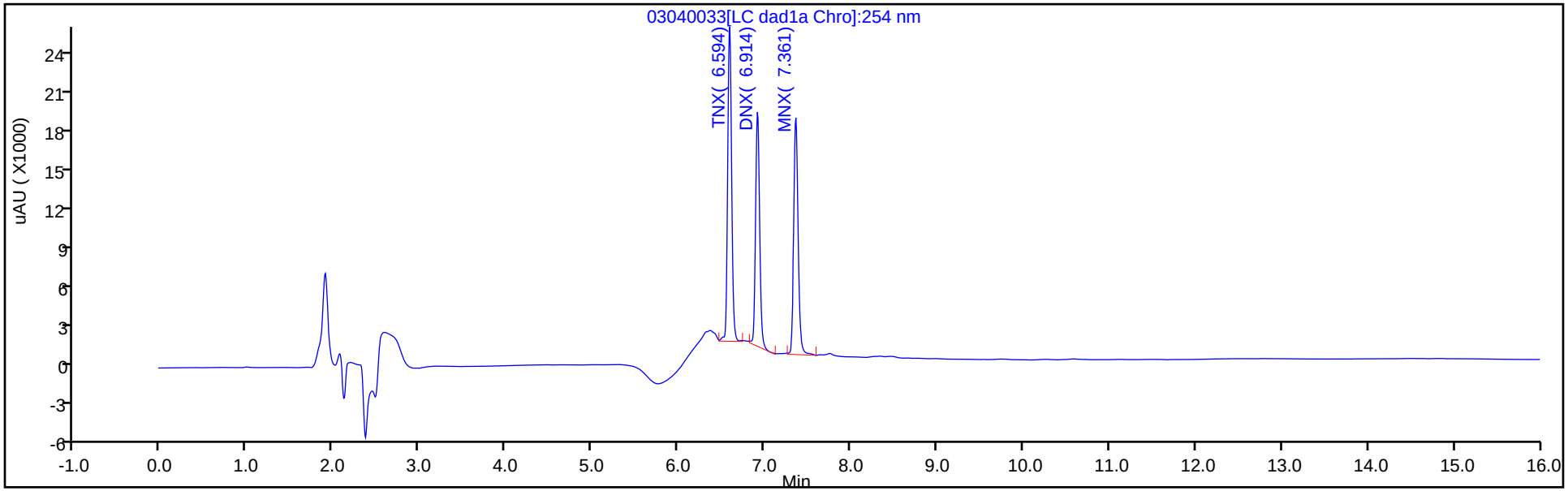
Report Date: 06-Mar-2020 10:25:29 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

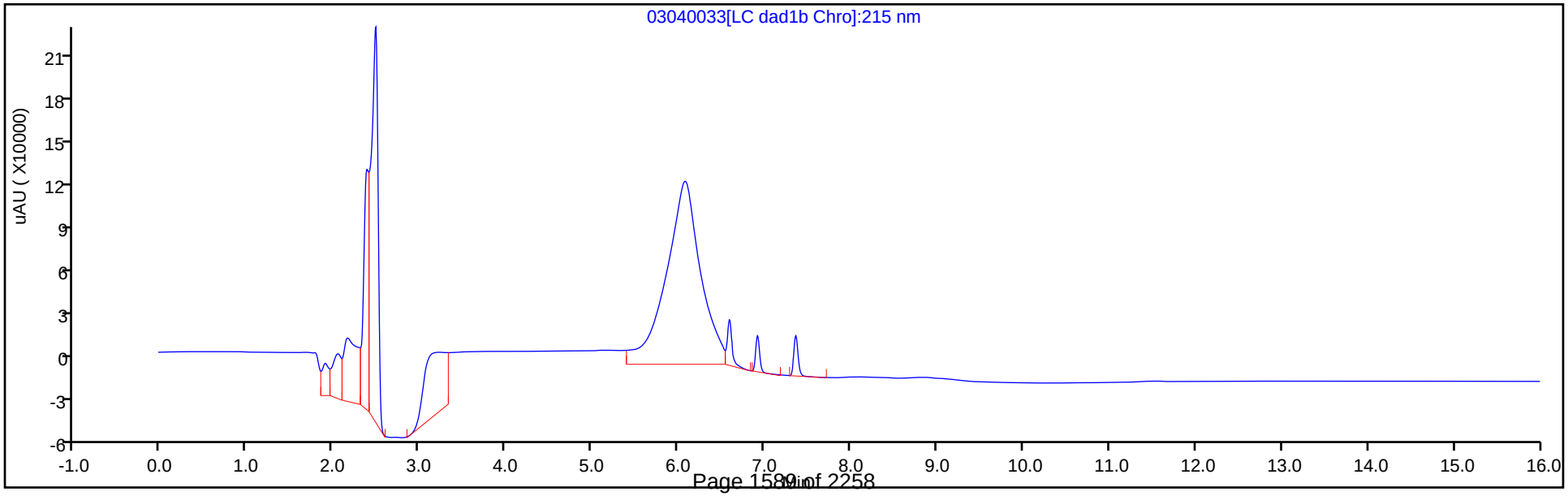
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040033.d

Injection Date:	05-Mar-2020 00:03:48	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	ICV DMT			Worklist Smp#:	33
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

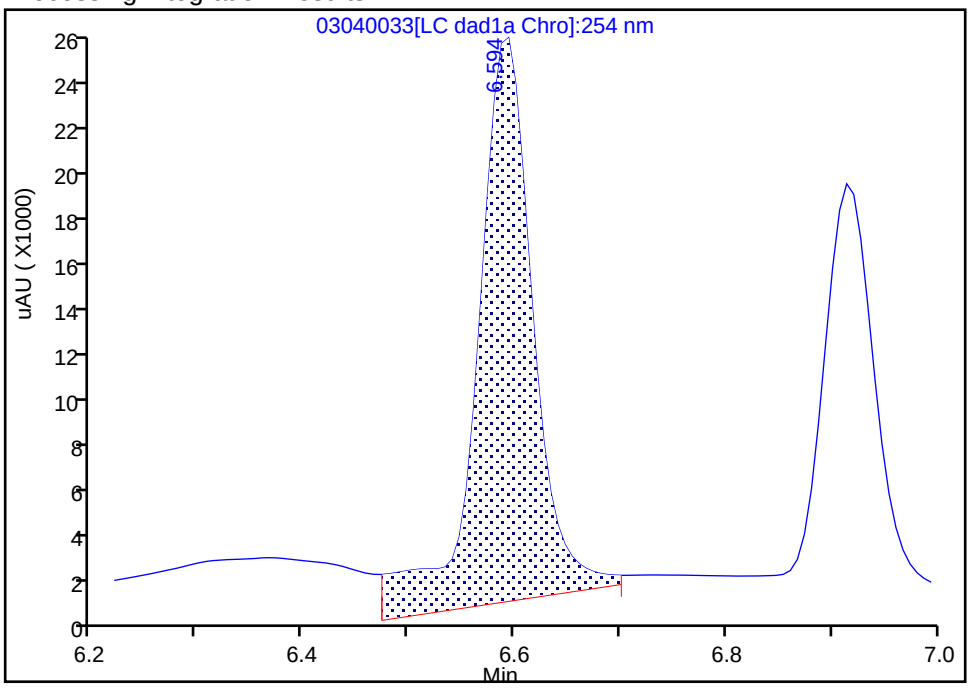
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040033.d				
Injection Date:	05-Mar-2020 00:03:48	Instrument ID:	CHHPLC_X3		
Lims ID:	ICV DMT				
Client ID:					
Operator ID:	CB	ALS Bottle#:	33	Worklist Smp#:	33
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

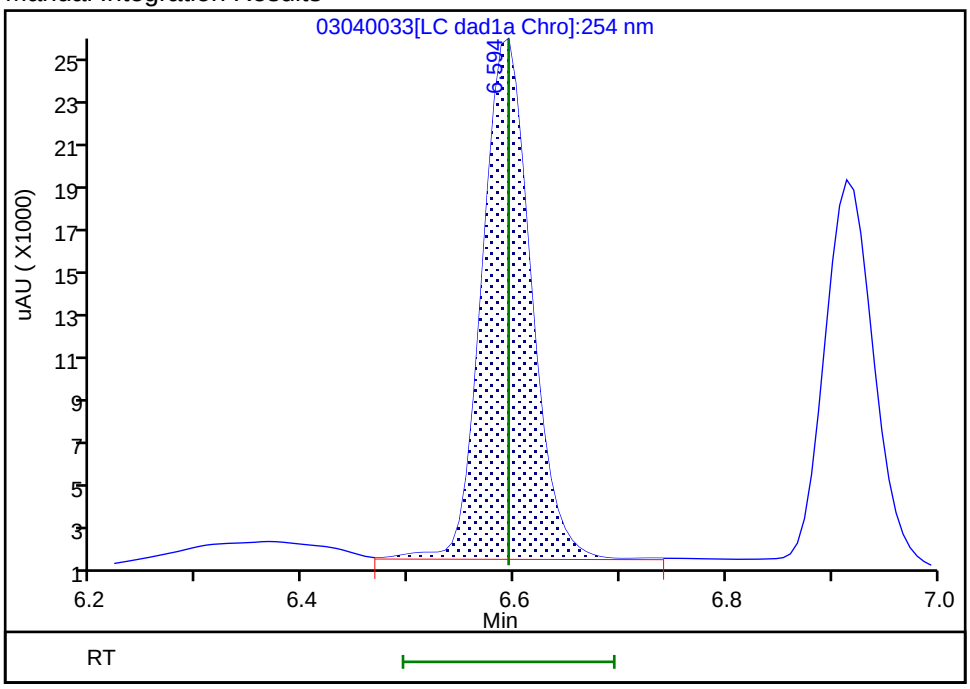
Processing Integration Results

RT: 6.59
Area: 91215
Amount: 0.419170
Amount Units: ug/mL



Manual Integration Results

RT: 6.59
Area: 75750
Amount: 0.348102
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:37:32

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

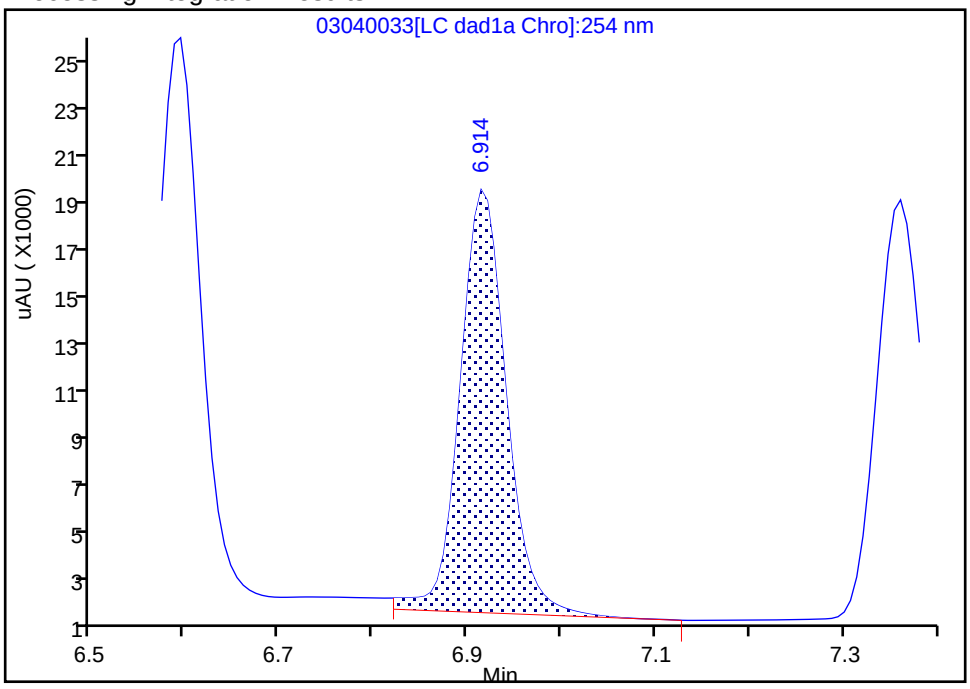
Data File:	\\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040033.d				
Injection Date:	05-Mar-2020 00:03:48	Instrument ID:	CHHPLC_X3		
Lims ID:	ICV DMT				
Client ID:					
Operator ID:	CB	ALS Bottle#:	33	Worklist Smp#:	33
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

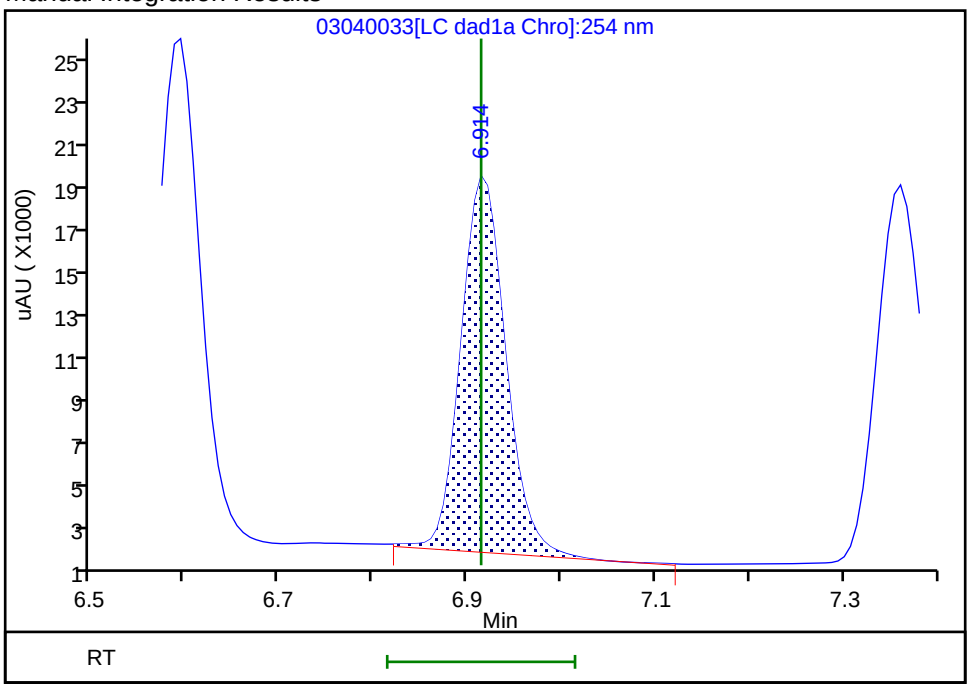
Processing Integration Results

RT: 6.91
Area: 60901
Amount: 0.398232
Amount Units: ug/mL



Manual Integration Results

RT: 6.91
Area: 58166
Amount: 0.380348
Amount Units: ug/mL



Reviewer: beckerc, 05-Mar-2020 08:37:39

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: ICV 280-489145/16 Calibration Date: 03/18/2020 15:02

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 03180016.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	85080		396	400	-1.0	15.0
RDX	Ave	116613	105640		362	400	-9.4	15.0
Picric acid	Ave	85131	85323		401	400	0.2	15.0
1,3,5-Trinitrobenzene	Ave	230309	238740		415	400	3.7	15.0
1,3-Dinitrobenzene	Ave	306686	307370		401	400	0.2	15.0
Nitrobenzene	Ave	200403	202493		404	400	1.0	15.0
Tetryl	Ave	177032	175175		396	400	-1.0	15.0
Nitroglycerin	Ave	68133	67461		3960	4000	-1.0	15.0
2,4,6-Trinitrotoluene	Ave	204031	204823		402	400	0.4	15.0
4-Amino-2,6-dinitrotoluene	Lin2		159183		363	400	-9.1	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	202785		400	400	-0.0	15.0
2,6-Dinitrotoluene	Ave	149452	151720		406	400	1.5	15.0
2,4-Dinitrotoluene	Ave	303584	291863		385	400	-3.9	15.0
2-Nitrotoluene	Ave	135051	128890		382	400	-4.6	15.0
4-Nitrotoluene	Ave	113005	112495		398	400	-0.5	15.0
3-Nitrotoluene	Ave	143029	145235		406	400	1.5	15.0
PETN	Ave	78605	75679		3850	4000	-3.7	15.0
1,2-Dinitrobenzene	Ave	138212	136648		395	400	-1.1	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: ICV 280-489145/16 Calibration Date: 03/18/2020 15:02

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 03180016.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.69	6.54	6.84
RDX	7.75	7.60	7.90
Picric acid	8.06	7.91	8.21
1,3,5-Trinitrobenzene	8.89	8.74	9.04
1,3-Dinitrobenzene	9.53	9.38	9.68
Nitrobenzene	9.92	9.77	10.07
Tetryl	10.22	10.07	10.37
Nitroglycerin	10.73	10.58	10.88
2,4,6-Trinitrotoluene	11.18	11.08	11.28
4-Amino-2,6-dinitrotoluene	11.34	11.24	11.44
2-Amino-4,6-dinitrotoluene	11.63	11.53	11.73
2,6-Dinitrotoluene	11.79	11.69	11.89
2,4-Dinitrotoluene	11.98	11.88	12.08
2-Nitrotoluene	12.82	12.67	12.97
4-Nitrotoluene	13.26	13.11	13.41
3-Nitrotoluene	13.85	13.70	14.00
PETN	14.94	14.79	15.09
1,2-Dinitrobenzene	8.71	8.56	8.86

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180016.D
Lims ID: ICV MAIN
Client ID:
Sample Type: ICV
Inject. Date: 18-Mar-2020 15:02:22 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: ICV MAIN
Misc. Info.: 280-0090150-016
Operator ID: CB Instrument ID: CHHPLC_X3
Sublist:

Method: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 26-Mar-2020 15:45:46 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX0308

First Level Reviewer: beckerc Date: 19-Mar-2020 08:47:14

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.685	6.685	0.000	34032	0.4000	0.3959	M
7 RDX	1	7.751	7.751	0.000	42256	0.4000	0.3624	
8 2,4,6-Trinitrophenol	1	8.058	8.058	0.000	34129	0.4000	0.4009	
$ 9 1,2-Dinitrobenzene	1	8.711	8.711	0.000	54659	0.4000	0.3955	
10 1,3,5-Trinitrobenzene	1	8.885	8.885	0.000	95496	0.4000	0.4146	
11 1,3-Dinitrobenzene	1	9.531	9.531	0.000	122948	0.4000	0.4009	
12 Nitrobenzene	1	9.918	9.918	0.000	80997	0.4000	0.4042	
14 Tetryl	1	10.218	10.218	0.000	70070	0.4000	0.3958	
15 Nitroglycerin	2	10.731	10.731	0.000	269842	4.00	3.96	
16 2,4,6-Trinitrotoluene	1	11.184	11.184	0.000	81929	0.4000	0.4016	
17 4-Amino-2,6-dinitrotoluene	1	11.344	11.344	0.000	63673	0.4000	0.3635	
18 2-Amino-4,6-dinitrotoluene	1	11.631	11.631	0.000	81114	0.4000	0.3999	
19 2,6-Dinitrotoluene	1	11.791	11.791	0.000	60688	0.4000	0.4061	
20 2,4-Dinitrotoluene	1	11.984	11.984	0.000	116745	0.4000	0.3846	
21 o-Nitrotoluene	1	12.824	12.824	0.000	51556	0.4000	0.3818	
22 p-Nitrotoluene	1	13.264	13.264	0.000	44998	0.4000	0.3982	
23 m-Nitrotoluene	1	13.851	13.851	0.000	58094	0.4000	0.4062	
24 PETN	2	14.938	14.938	0.000	302716	4.00	3.85	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330Surrogate_00110 Amount Added: 40.00 Units: uL
8330 LCS_00095 Amount Added: 40.00 Units: uL

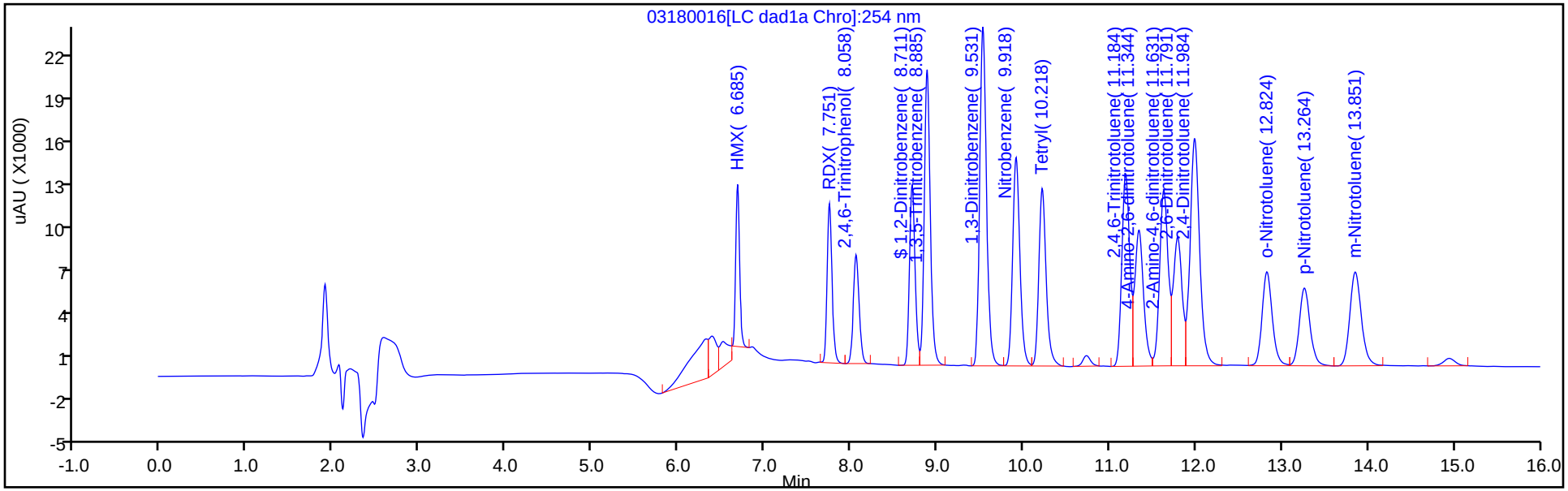
Report Date: 26-Mar-2020 15:45:47 Chrom Revision: 2.3 11-Mar-2020 18:53:20

Eurofins TestAmerica, Denver

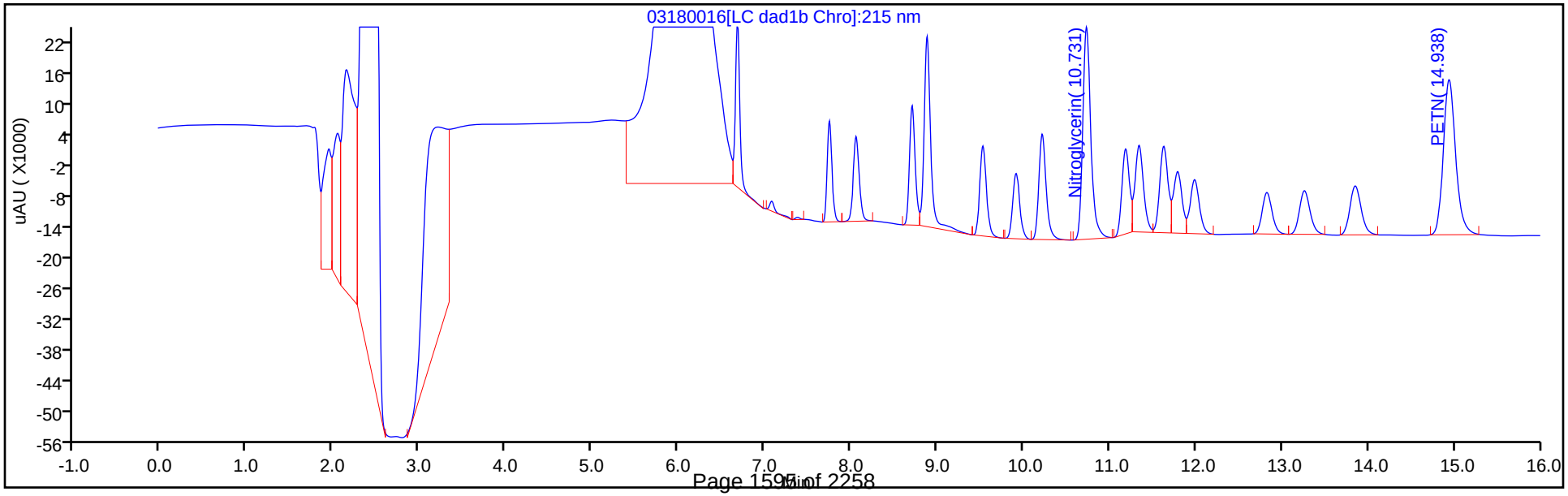
Data File: \\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180016.d

Injection Date:	18-Mar-2020 15:02:22	Instrument ID:	CHHPLC_X3	Operator ID:	CB
Lims ID:	ICV MAIN			Worklist Smp#:	16
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

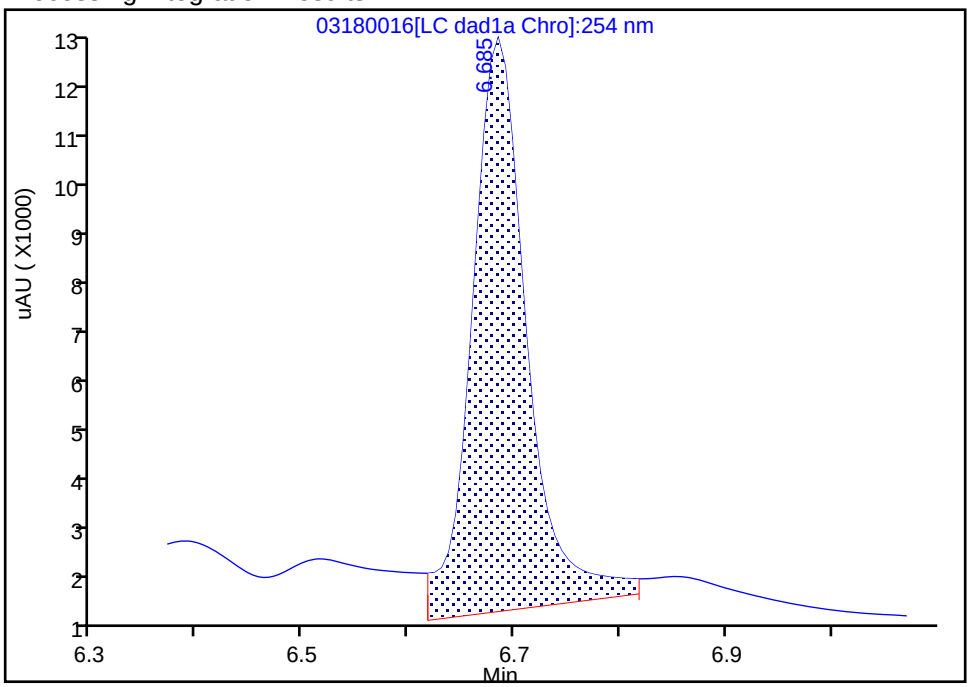
Data File:	\\chromna\denver\chromdata\chhplc_x\20200318-90159.b\03180016.d				
Injection Date:	18-Mar-2020 15:02:22	Instrument ID:	CHHPLC_X3		
Lims ID:	ICV MAIN				
Client ID:					
Operator ID:	CB	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

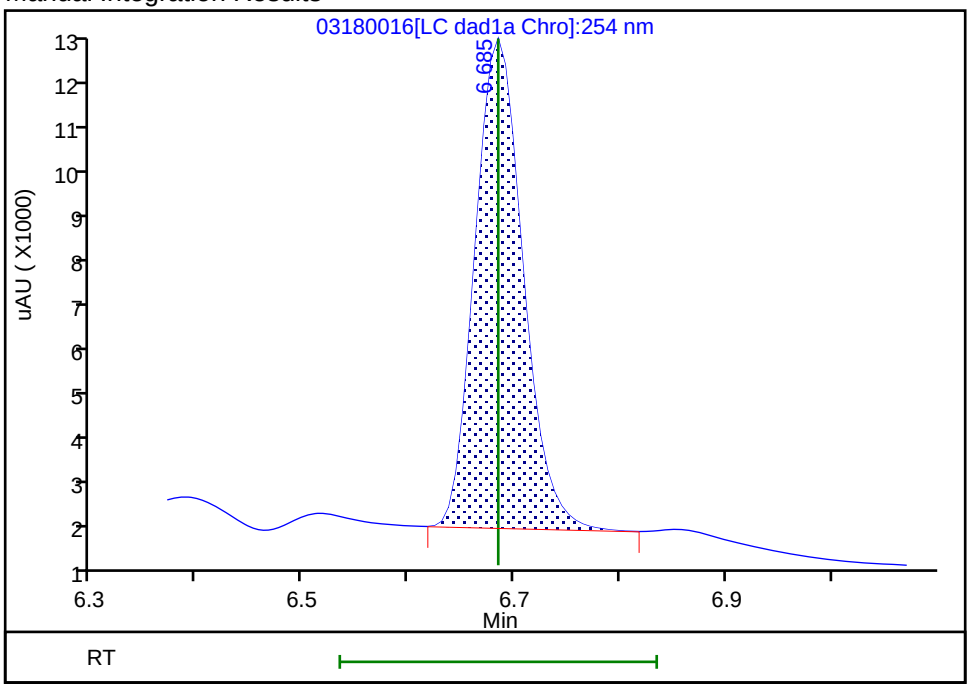
Processing Integration Results

RT: 6.68
Area: 41406
Amount: 0.494354
Amount Units: ug/mL



Manual Integration Results

RT: 6.68
Area: 34032
Amount: 0.395895
Amount Units: ug/mL



Reviewer: beckerc, 19-Mar-2020 08:47:09

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499988/7 Calibration Date: 06/24/2020 16:16

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06240007.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	87008		253	250	1.2	15.0
RDX	Ave	116613	109752		235	250	-5.9	15.0
Picric acid	Ave	85131	85140		250	250	0.0	15.0
1,3,5-Trinitrobenzene	Ave	230309	239469		260	251	4.0	15.0
1,3-Dinitrobenzene	Ave	306686	319465		261	251	4.2	15.0
Nitrobenzene	Ave	200403	207737		260	251	3.7	15.0
Tetryl	Ave	177032	181250		256	251	2.4	15.0
Nitroglycerin	Ave	68133	71389		2620	2500	4.8	15.0
2,4,6-Trinitrotoluene	Ave	204031	213773		263	251	4.8	15.0
4-Amino-2,6-dinitrotoluene	Lin2		165391		239	250	-4.7	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	211203		261	251	4.1	15.0
2,6-Dinitrotoluene	Ave	149452	155163		261	251	3.8	15.0
2,4-Dinitrotoluene	Ave	303584	311980		258	251	2.8	15.0
2-Nitrotoluene	Ave	135051	133812		248	250	-0.9	15.0
4-Nitrotoluene	Ave	113005	119285		264	251	5.6	15.0
3-Nitrotoluene	Ave	143029	148252		259	250	3.7	15.0
PETN	Ave	78605	84253		2680	2500	7.2	15.0
1,2-Dinitrobenzene	Ave	138212	143432		259	250	3.8	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499988/7 Calibration Date: 06/24/2020 16:16

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06240007.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.71	6.56	6.86
RDX	7.79	7.64	7.94
Picric acid	8.09	7.94	8.24
1,3,5-Trinitrobenzene	8.92	8.77	9.07
1,3-Dinitrobenzene	9.57	9.42	9.72
Nitrobenzene	9.95	9.80	10.10
Tetryl	10.25	10.10	10.40
Nitroglycerin	10.77	10.62	10.92
2,4,6-Trinitrotoluene	11.23	11.13	11.33
4-Amino-2,6-dinitrotoluene	11.39	11.29	11.49
2-Amino-4,6-dinitrotoluene	11.68	11.58	11.78
2,6-Dinitrotoluene	11.82	11.72	11.92
2,4-Dinitrotoluene	12.02	11.92	12.12
2-Nitrotoluene	12.85	12.70	13.00
4-Nitrotoluene	13.27	13.12	13.42
3-Nitrotoluene	13.87	13.72	14.02
PETN	14.96	14.81	15.11
1,2-Dinitrobenzene	8.74	8.59	8.89

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240007.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 24-Jun-2020 16:16:03 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0092716-007
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:06 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 24-Jun-2020 17:57:36

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.712	6.712	0.000	21752	0.2500	0.2530	M
7 RDX	1	7.785	7.785	0.000	27438	0.2500	0.2353	
8 2,4,6-Trinitrophenol	1	8.085	8.085	0.000	21285	0.2500	0.2500	
$ 9 1,2-Dinitrobenzene	1	8.738	8.738	0.000	35858	0.2500	0.2594	
10 1,3,5-Trinitrobenzene	1	8.918	8.918	0.000	59987	0.2505	0.2605	
11 1,3-Dinitrobenzene	1	9.565	9.565	0.000	80026	0.2505	0.2609	
12 Nitrobenzene	1	9.945	9.945	0.000	52142	0.2510	0.2602	
14 Tetryl	1	10.252	10.252	0.000	45403	0.2505	0.2565	
15 Nitroglycerin	2	10.765	10.765	0.000	178472	2.50	2.62	
16 2,4,6-Trinitrotoluene	1	11.225	11.225	0.000	53657	0.2510	0.2630	
17 4-Amino-2,6-dinitrotoluene	1	11.385	11.385	0.000	41389	0.2503	0.2386	
18 2-Amino-4,6-dinitrotoluene	1	11.678	11.678	0.000	53012	0.2510	0.2614	
19 2,6-Dinitrotoluene	1	11.818	11.818	0.000	38946	0.2510	0.2606	
20 2,4-Dinitrotoluene	1	12.018	12.018	0.000	78307	0.2510	0.2579	
21 o-Nitrotoluene	1	12.845	12.845	0.000	33453	0.2500	0.2477	
22 p-Nitrotoluene	1	13.272	13.272	0.000	29881	0.2505	0.2644	
23 m-Nitrotoluene	1	13.865	13.865	0.000	37100	0.2503	0.2594	
24 PETN	2	14.958	14.958	0.000	210632	2.50	2.68	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00061 Amount Added: 25.00 Units: uL

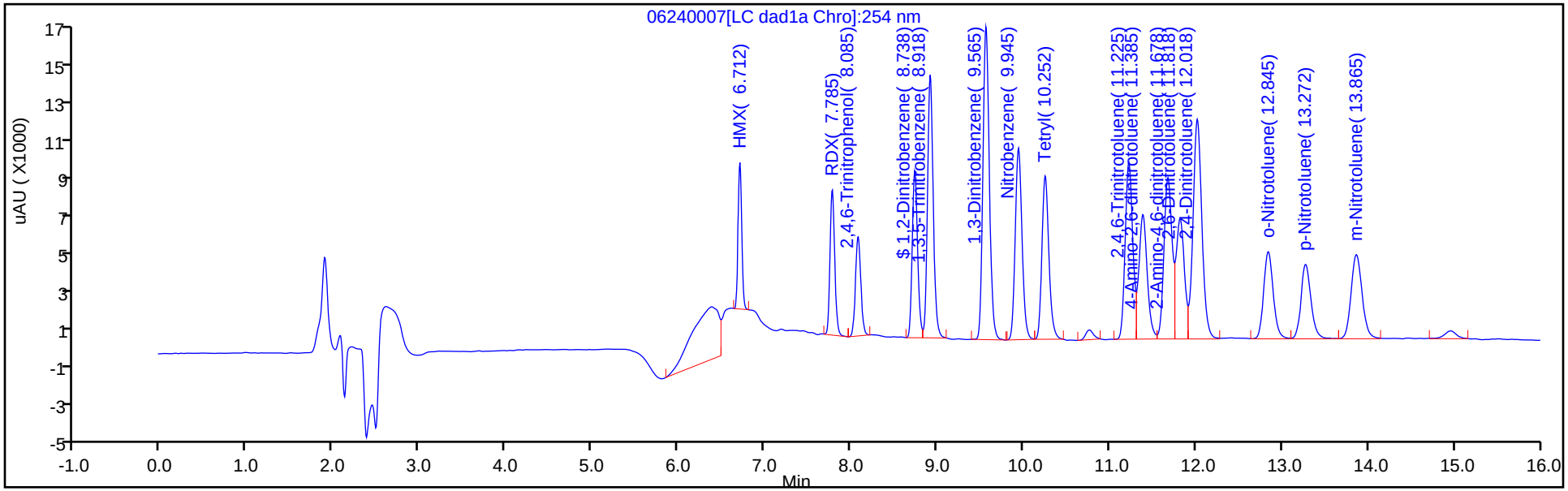
Report Date: 25-Jun-2020 21:10:06 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

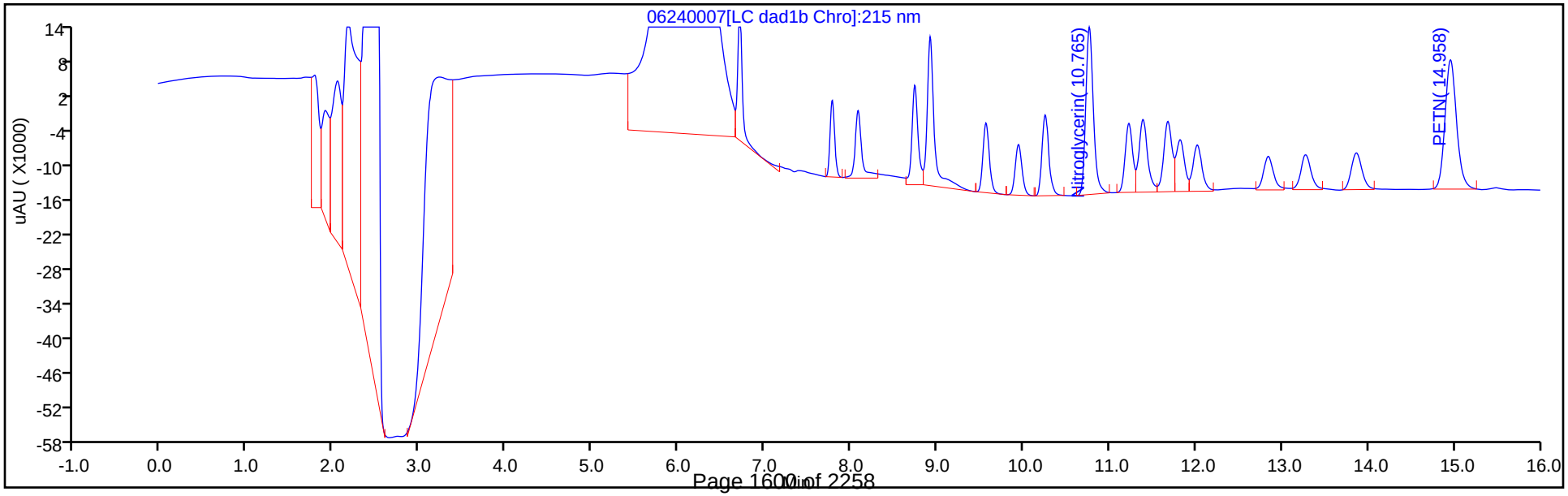
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240007.d

Injection Date:	24-Jun-2020 16:16:03	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	7
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

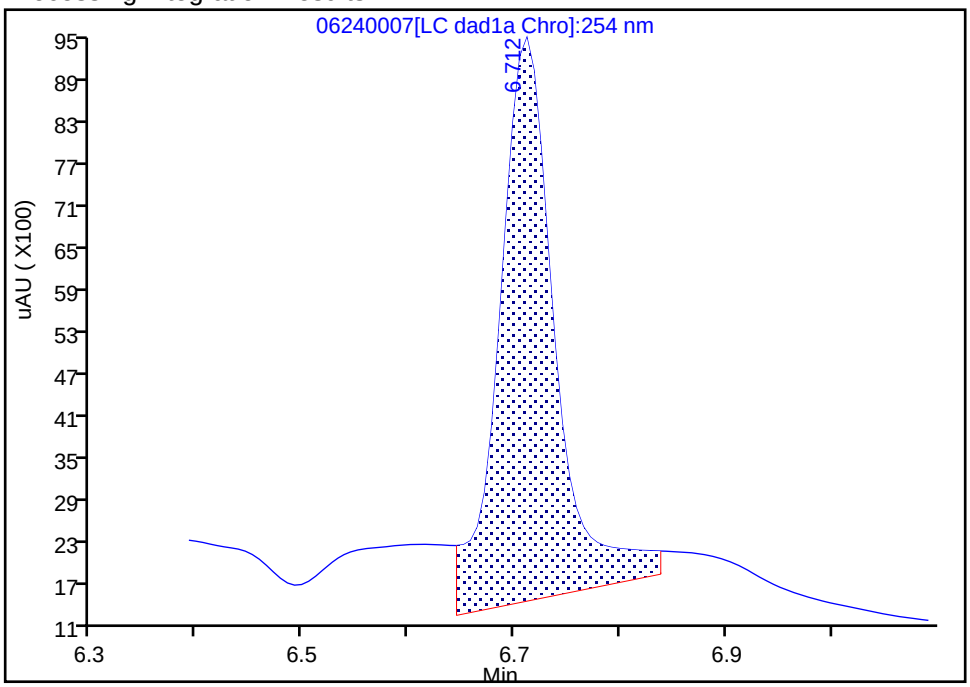
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240007.d				
Injection Date:	24-Jun-2020 16:16:03	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

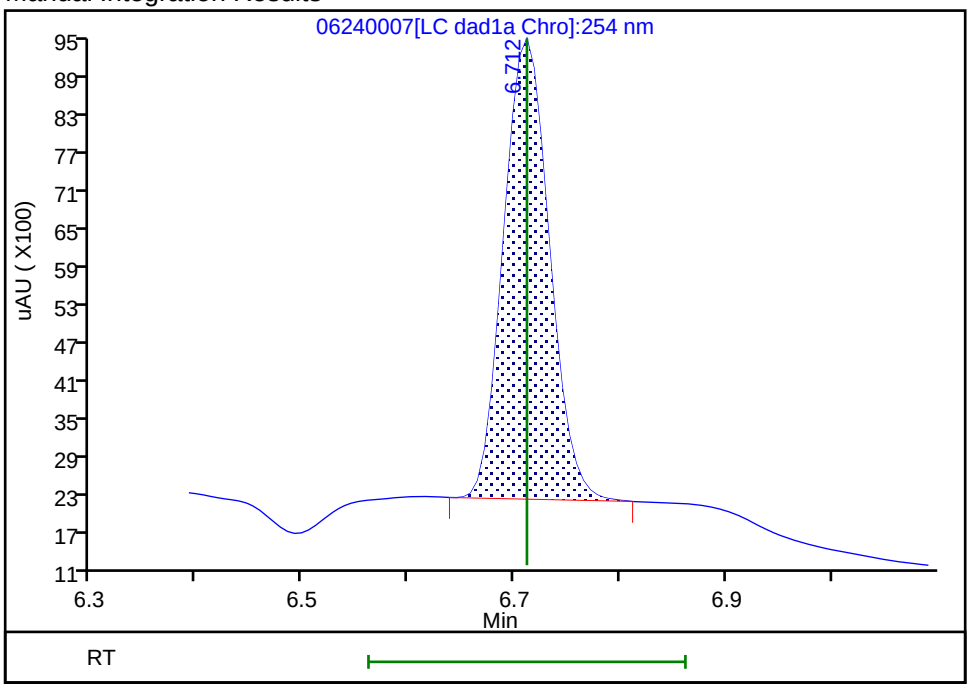
Processing Integration Results

RT: 6.71
Area: 29438
Amount: 0.342453
Amount Units: ug/mL



Manual Integration Results

RT: 6.71
Area: 21752
Amount: 0.253042
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 16:42:25

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499988/9 Calibration Date: 06/24/2020 17:02

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06240009.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	205682		237	250	-5.5	15.0
DNX	Ave	152928	148232		243	250	-3.1	15.0
MNX	Ave	158544	138708		255	292	-12.5	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499988/9 Calibration Date: 06/24/2020 17:02

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06240009.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.62	6.52	6.72
DNX	6.94	6.84	7.04
MNX	7.38	7.23	7.53

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240009.D
Lims ID: CCV DMT
Client ID:
Sample Type: CCV
Inject. Date: 24-Jun-2020 17:02:02 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV DMT
Misc. Info.: 280-0092716-009
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub17

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:07 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 24-Jun-2020 17:58:27

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.617	6.617	0.000	51472	0.2503	0.2365	M
5 DNX	1	6.937	6.937	0.000	37095	0.2503	0.2426	M
6 MNX	1	7.384	7.384	0.000	40468	0.2918	0.2552	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00006 Amount Added: 12.50 Units: uL

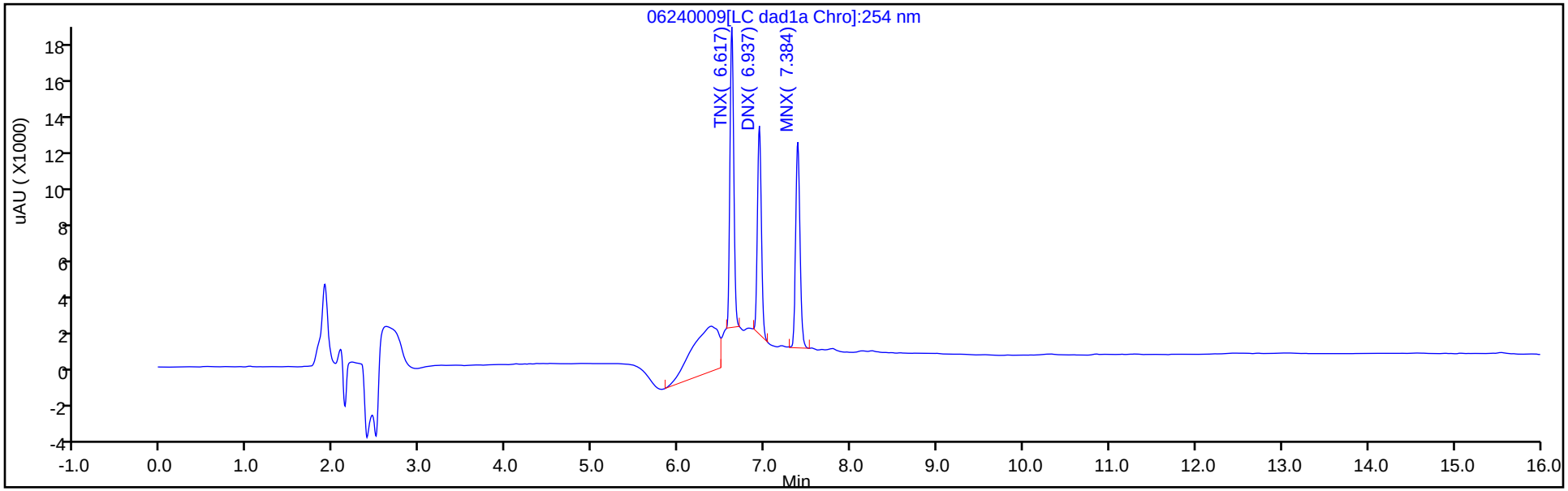
Report Date: 25-Jun-2020 21:10:07 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

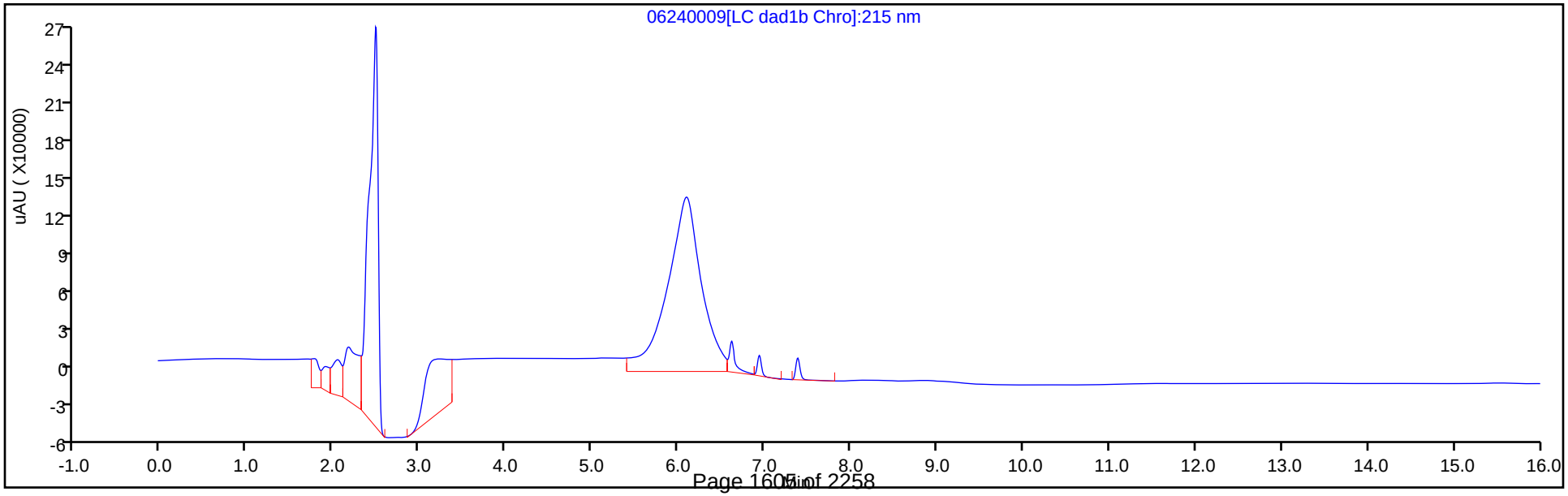
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240009.d

Injection Date:	24-Jun-2020 17:02:02	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	9
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

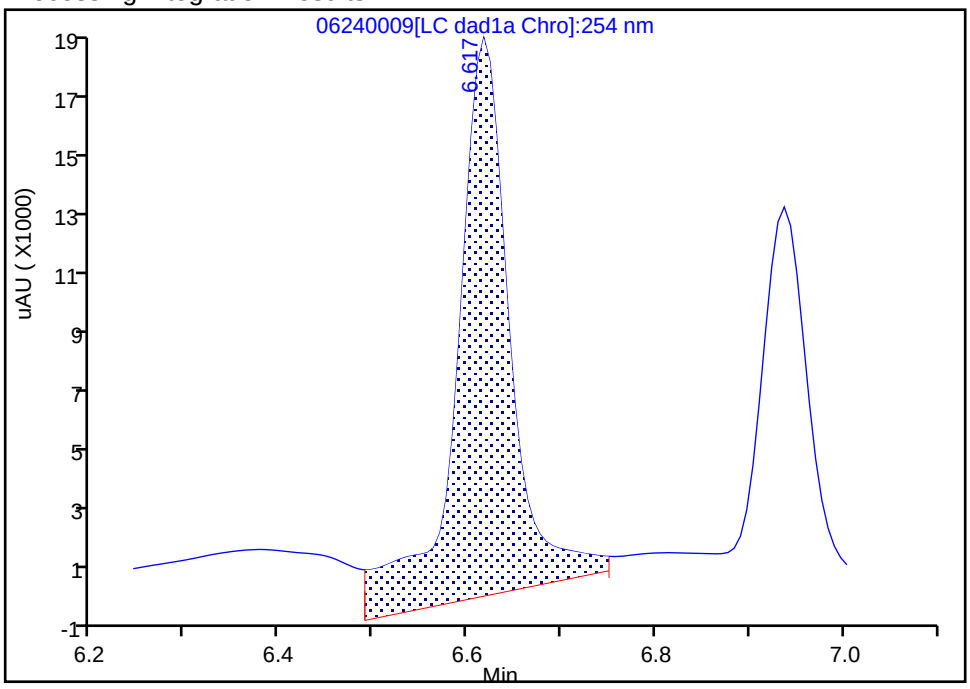
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240009.d				
Injection Date:	24-Jun-2020 17:02:02	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

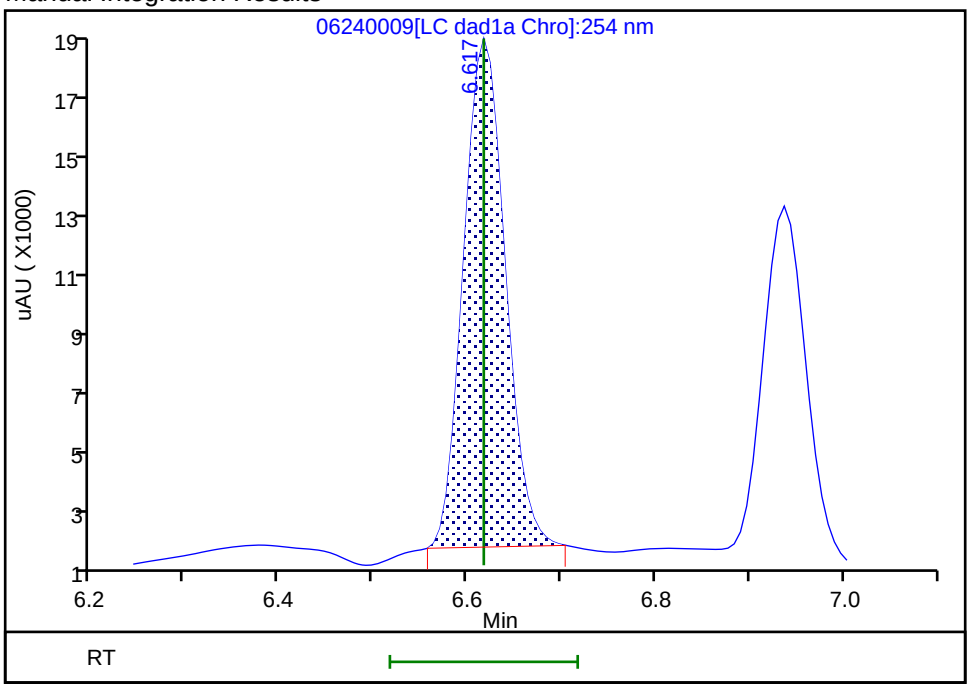
Processing Integration Results

RT: 6.62
Area: 72497
Amount: 0.333153
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 51472
Amount: 0.236535
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 17:58:16

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

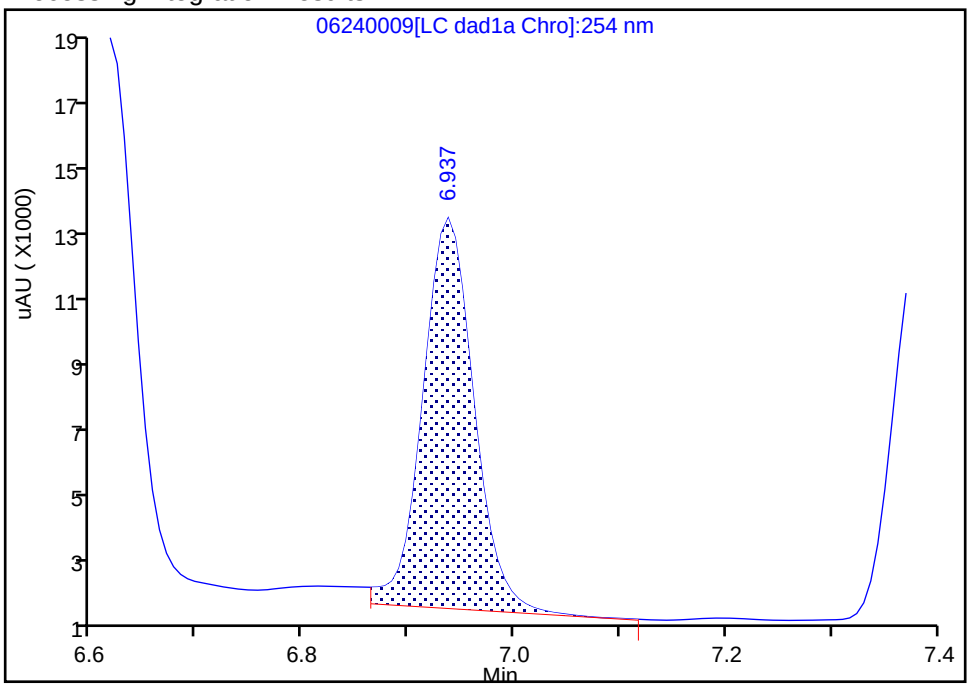
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240009.d				
Injection Date:	24-Jun-2020 17:02:02	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

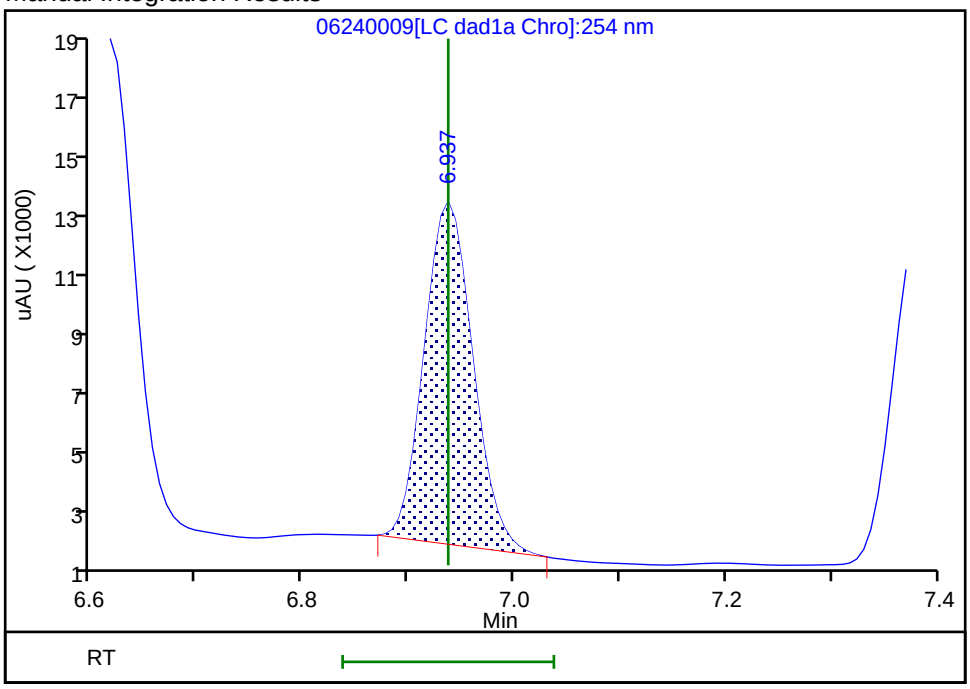
Processing Integration Results

RT: 6.94
Area: 40467
Amount: 0.264614
Amount Units: ug/mL



Manual Integration Results

RT: 6.94
Area: 37095
Amount: 0.242565
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 17:58:21

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499988/20 Calibration Date: 06/24/2020 21:15

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06240020.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	88368		257	250	2.8	15.0
RDX	Ave	116613	109996		236	250	-5.7	15.0
Picric acid	Ave	85131	84800		249	250	-0.4	15.0
1,3,5-Trinitrobenzene	Ave	230309	239429		260	251	4.0	15.0
1,3-Dinitrobenzene	Ave	306686	265912		217	251	-13.3	15.0
Nitrobenzene	Ave	200403	198805		249	251	-0.8	15.0
Tetryl	Ave	177032	180862		256	251	2.2	15.0
Nitroglycerin	Ave	68133	72309		2650	2500	6.1	15.0
2,4,6-Trinitrotoluene	Ave	204031	217829		268	251	6.8	15.0
4-Amino-2,6-dinitrotoluene	Lin2		169139		244	250	-2.6	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	209980		260	251	3.5	15.0
2,6-Dinitrotoluene	Ave	149452	161916		272	251	8.3	15.0
2,4-Dinitrotoluene	Ave	303584	316096		261	251	4.1	15.0
2-Nitrotoluene	Ave	135051	132084		245	250	-2.2	15.0
4-Nitrotoluene	Ave	113005	115146		255	251	1.9	15.0
3-Nitrotoluene	Ave	143029	146509		256	250	2.4	15.0
PETN	Ave	78605	85062		2710	2500	8.2	15.0
1,2-Dinitrobenzene	Ave	138212	143972		260	250	4.2	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499988/20 Calibration Date: 06/24/2020 21:15

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06240020.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.72	6.56	6.86
RDX	7.79	7.64	7.94
Picric acid	8.09	7.94	8.24
1,3,5-Trinitrobenzene	8.92	8.77	9.07
1,3-Dinitrobenzene	9.57	9.42	9.72
Nitrobenzene	9.94	9.80	10.10
Tetryl	10.25	10.10	10.40
Nitroglycerin	10.75	10.62	10.92
2,4,6-Trinitrotoluene	11.20	11.13	11.33
4-Amino-2,6-dinitrotoluene	11.36	11.29	11.49
2-Amino-4,6-dinitrotoluene	11.65	11.58	11.78
2,6-Dinitrotoluene	11.79	11.72	11.92
2,4-Dinitrotoluene	11.99	11.92	12.12
2-Nitrotoluene	12.80	12.70	13.00
4-Nitrotoluene	13.23	13.12	13.42
3-Nitrotoluene	13.81	13.72	14.02
PETN	14.87	14.81	15.11
1,2-Dinitrobenzene	8.74	8.59	8.89

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240020.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 24-Jun-2020 21:15:07 ALS Bottle#: 7 Worklist Smp#: 20
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0092716-020
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:16 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 24-Jun-2020 21:49:48

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.719	6.712	0.007	22092	0.2500	0.2570	M
7 RDX	1	7.786	7.785	0.001	27499	0.2500	0.2358	
8 2,4,6-Trinitrophenol	1	8.086	8.085	0.001	21200	0.2500	0.2490	
$ 9 1,2-Dinitrobenzene	1	8.739	8.738	0.001	35993	0.2500	0.2604	
10 1,3,5-Trinitrobenzene	1	8.919	8.918	0.001	59977	0.2505	0.2604	
11 1,3-Dinitrobenzene	1	9.566	9.565	0.001	66611	0.2505	0.2172	M
12 Nitrobenzene	1	9.939	9.945	-0.006	49900	0.2510	0.2490	M
14 Tetryl	1	10.246	10.252	-0.006	45306	0.2505	0.2559	M
15 Nitroglycerin	2	10.746	10.765	-0.019	180772	2.50	2.65	M
16 2,4,6-Trinitrotoluene	1	11.199	11.225	-0.026	54675	0.2510	0.2680	M
17 4-Amino-2,6-dinitrotoluene	1	11.359	11.385	-0.026	42327	0.2503	0.2438	M
18 2-Amino-4,6-dinitrotoluene	1	11.652	11.678	-0.026	52705	0.2510	0.2599	M
19 2,6-Dinitrotoluene	1	11.792	11.818	-0.026	40641	0.2510	0.2719	M
20 2,4-Dinitrotoluene	1	11.992	12.018	-0.026	79340	0.2510	0.2613	M
21 o-Nitrotoluene	1	12.799	12.845	-0.046	33021	0.2500	0.2445	M
22 p-Nitrotoluene	1	13.226	13.272	-0.046	28844	0.2505	0.2552	M
23 m-Nitrotoluene	1	13.806	13.865	-0.059	36664	0.2503	0.2563	M
24 PETN	2	14.872	14.958	-0.086	212654	2.50	2.71	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00061 Amount Added: 25.00 Units: uL

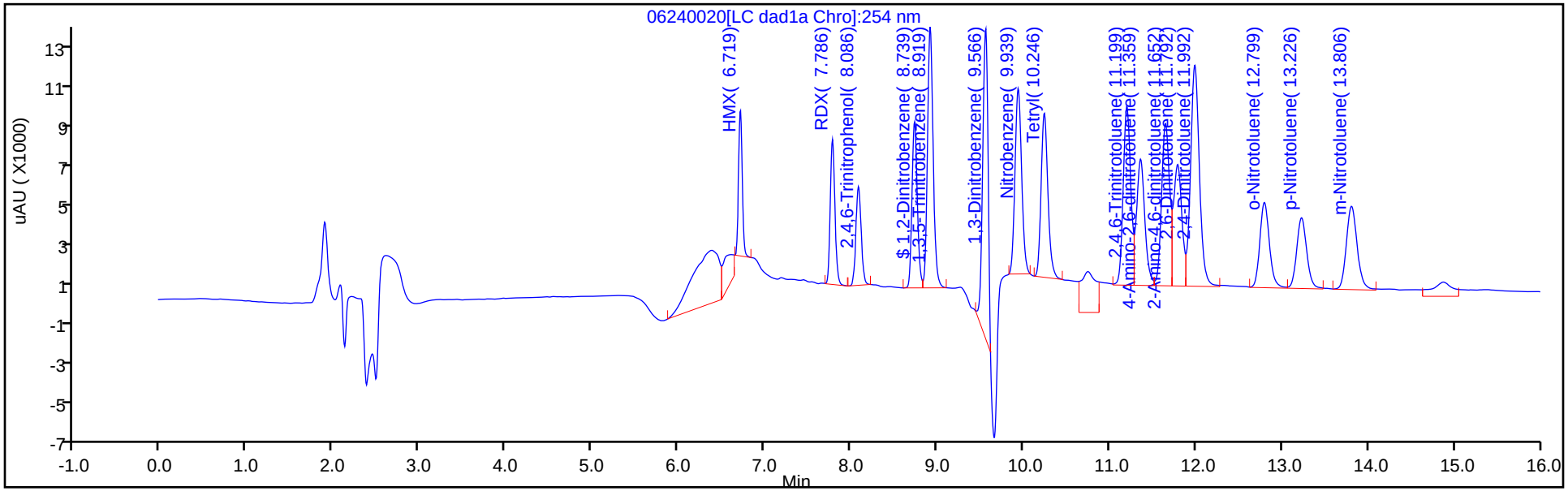
Report Date: 25-Jun-2020 21:10:16 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

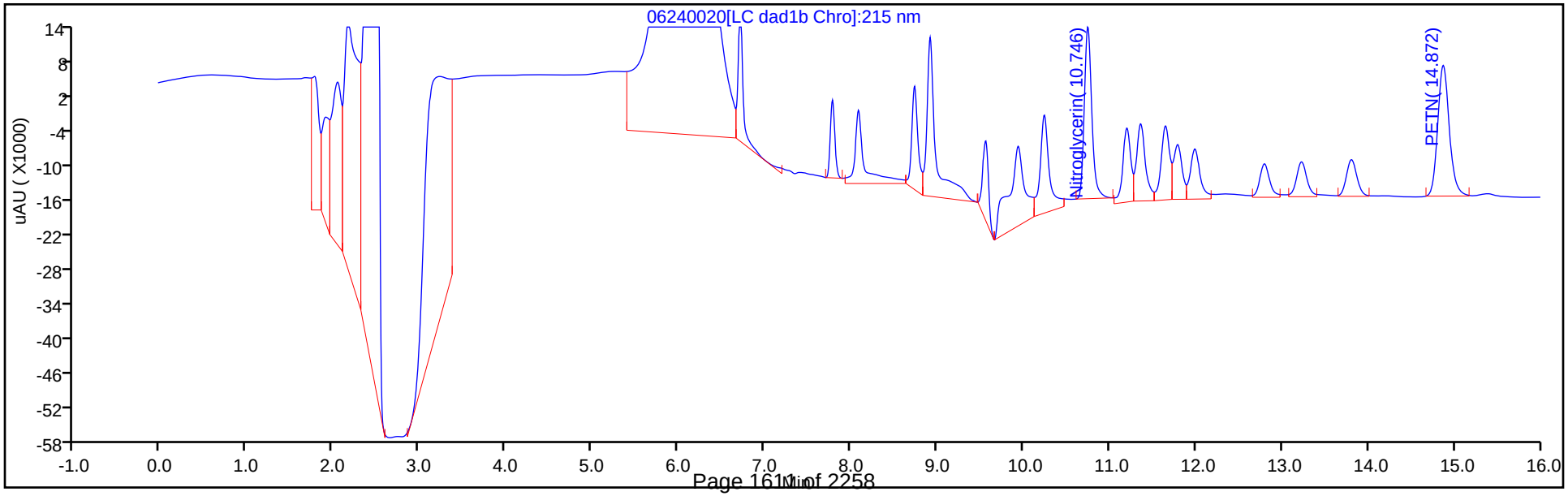
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240020.d

Injection Date:	24-Jun-2020 21:15:07	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	20
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

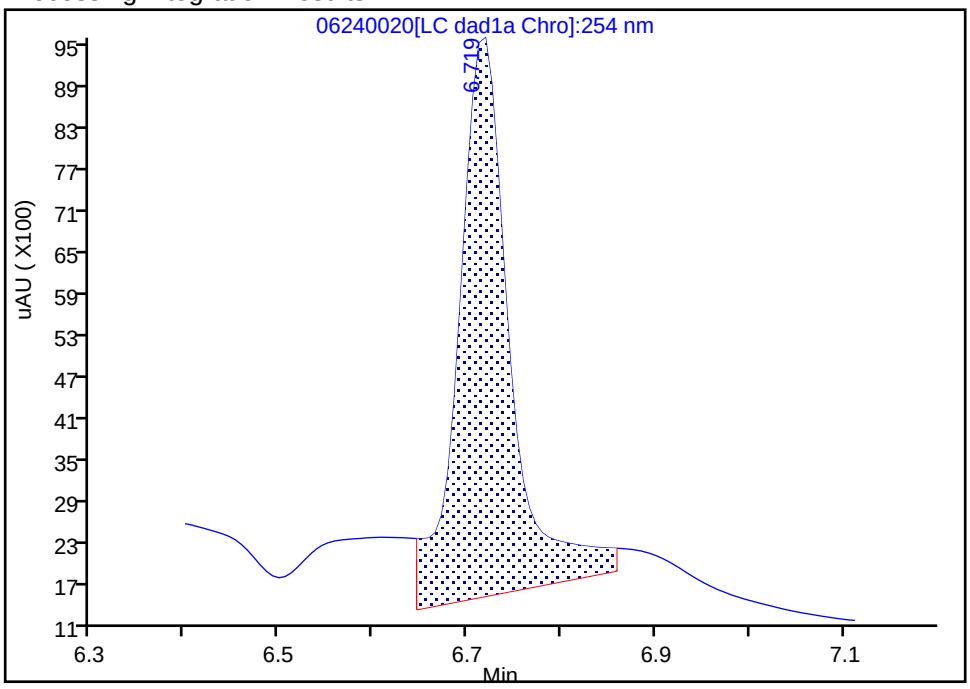
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240020.d				
Injection Date:	24-Jun-2020 21:15:07	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

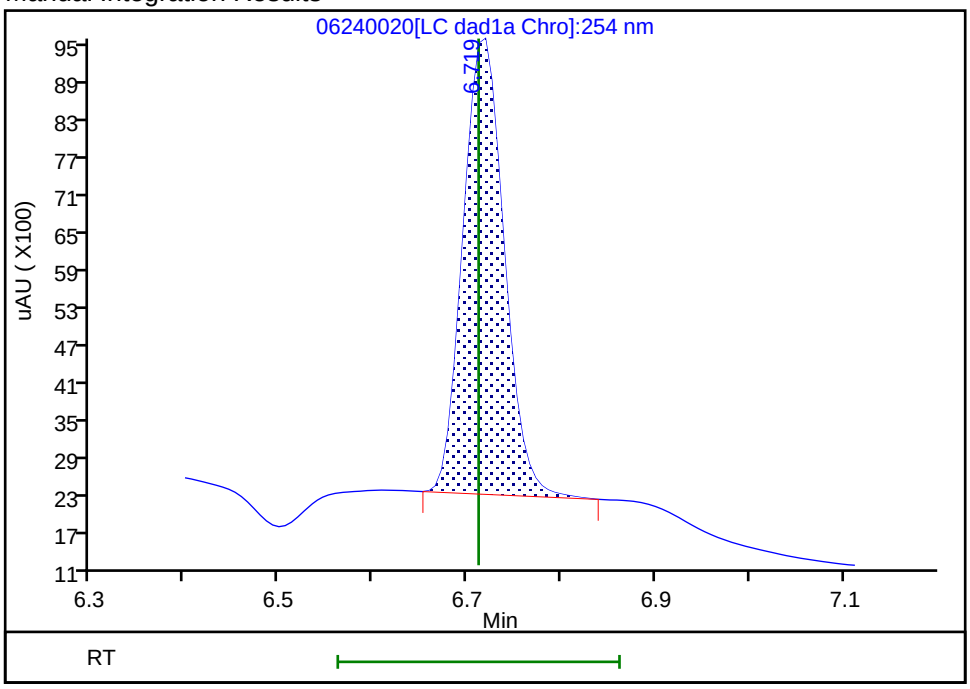
Processing Integration Results

RT: 6.72
Area: 30779
Amount: 0.358053
Amount Units: ug/mL



Manual Integration Results

RT: 6.72
Area: 22092
Amount: 0.256997
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 21:48:50

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

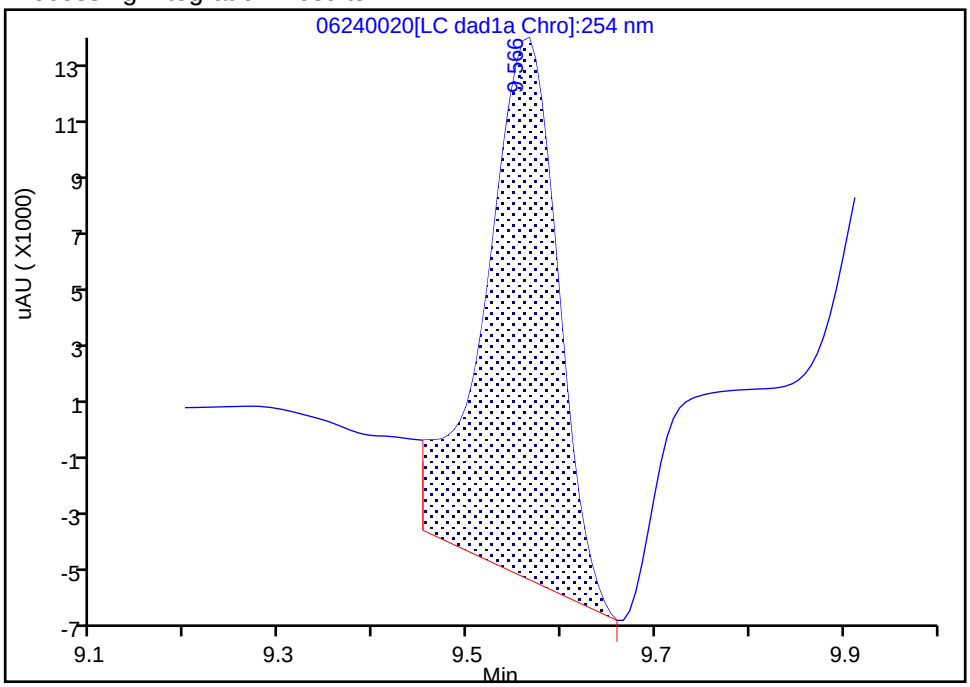
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240020.d
Injection Date: 24-Jun-2020 21:15:07 Instrument ID: CHHPLC_X3
Lims ID: CCV INT
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 20
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

11 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

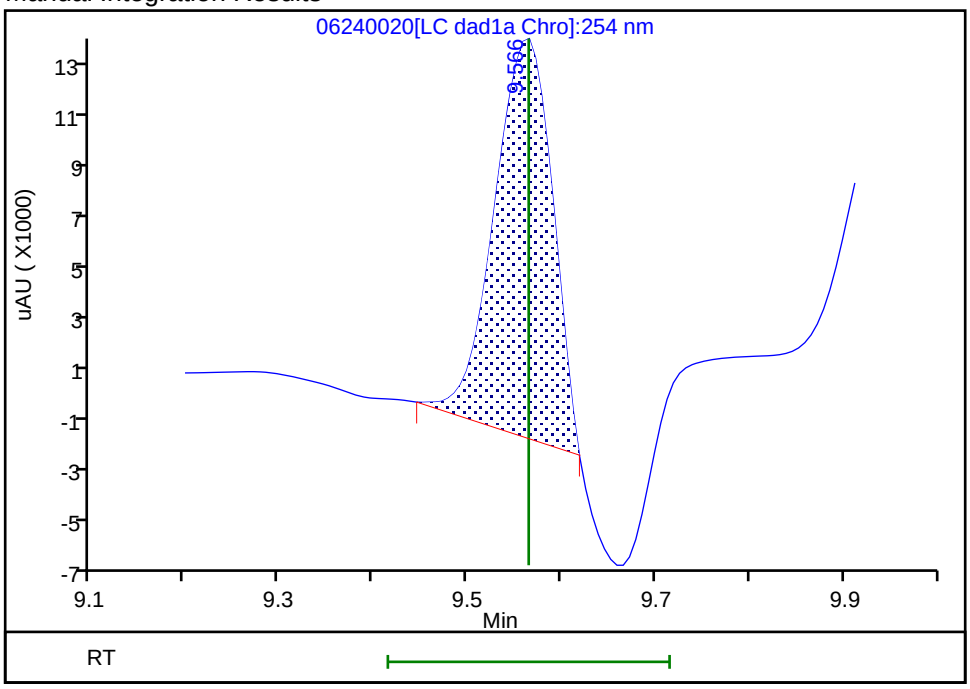
Processing Integration Results

RT: 9.57
Area: 103304
Amount: 0.336840
Amount Units: ug/mL



Manual Integration Results

RT: 9.57
Area: 66611
Amount: 0.217196
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 21:49:07
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

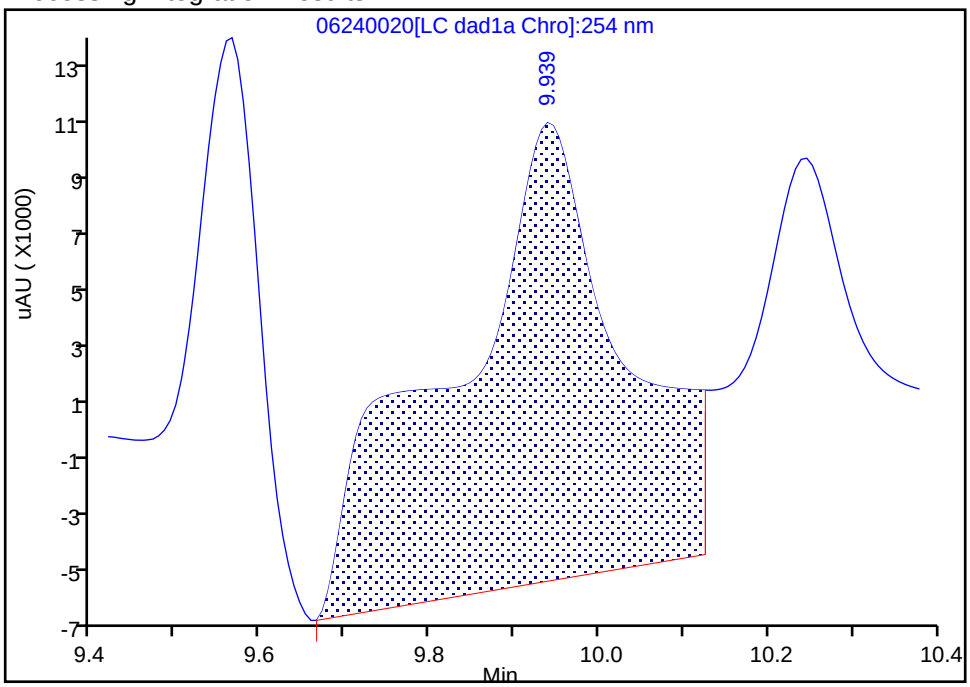
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240020.d				
Injection Date:	24-Jun-2020 21:15:07	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

12 Nitrobenzene, CAS: 98-95-3

Signal: 1

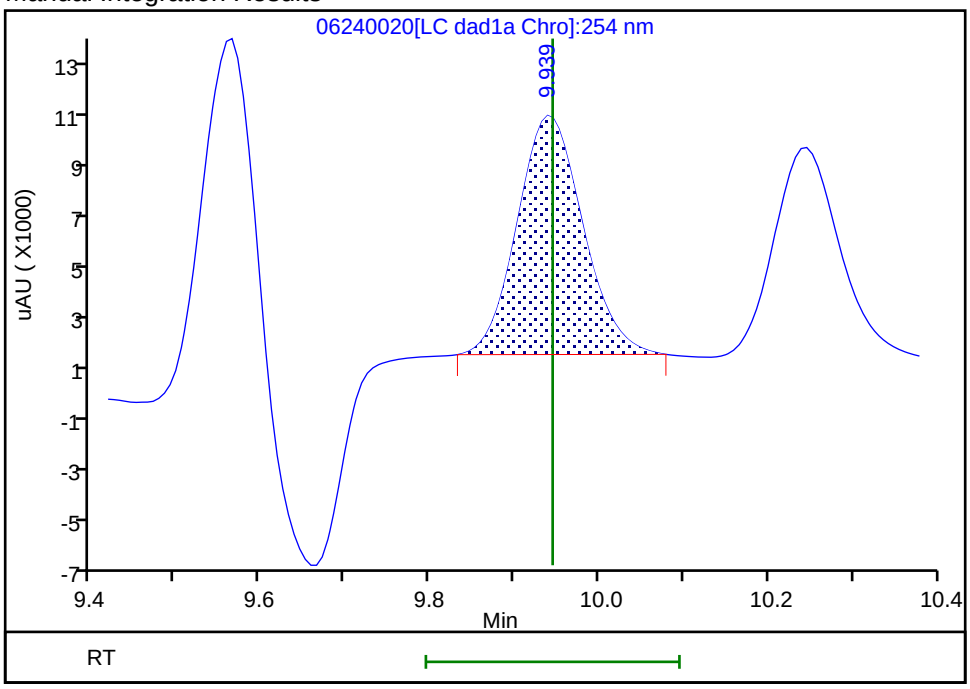
Processing Integration Results

RT: 9.94
Area: 226433
Amount: 1.129890
Amount Units: ug/mL



Manual Integration Results

RT: 9.94
Area: 49900
Amount: 0.248999
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 21:49:14

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

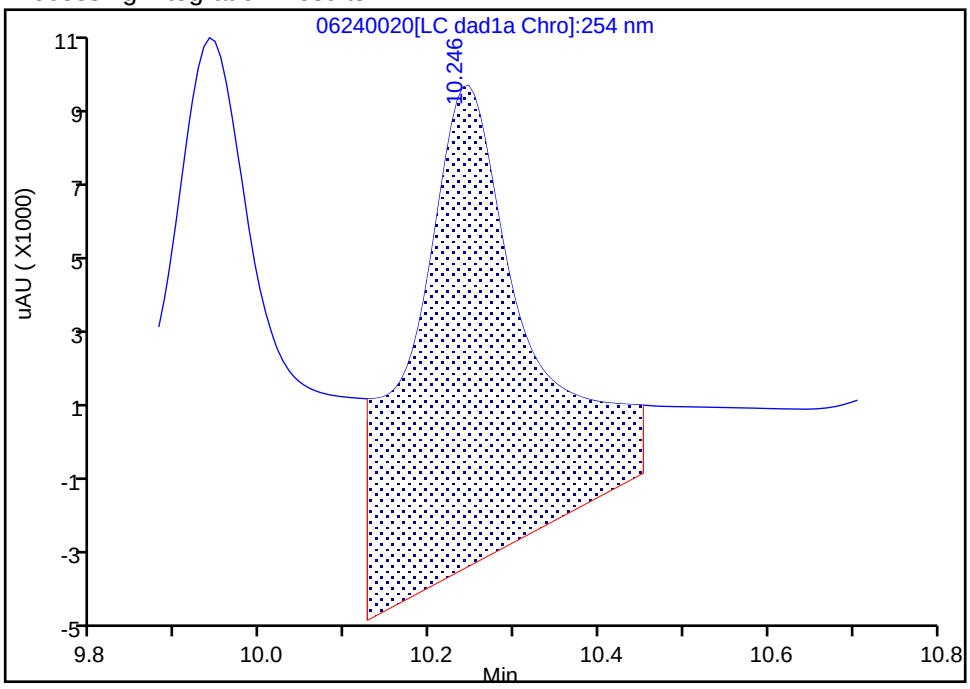
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240020.d				
Injection Date:	24-Jun-2020 21:15:07	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

14 Tetryl, CAS: 479-45-8

Signal: 1

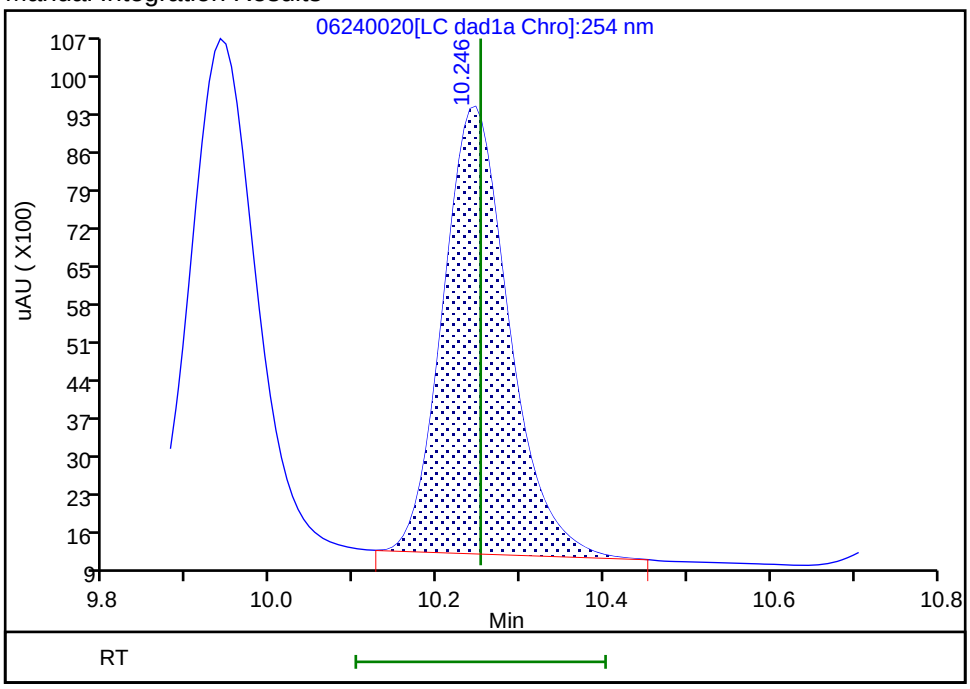
Processing Integration Results

RT: 10.25
Area: 119110
Amount: 0.672816
Amount Units: ug/mL



Manual Integration Results

RT: 10.25
Area: 45306
Amount: 0.255920
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 21:49:20
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

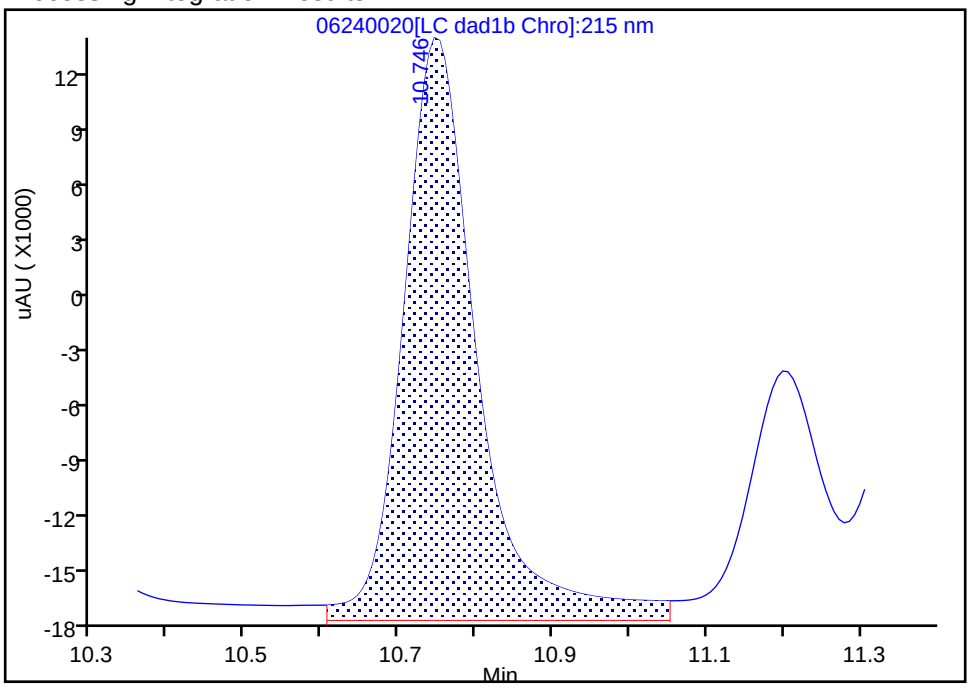
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240020.d
Injection Date: 24-Jun-2020 21:15:07 Instrument ID: CHHPLC_X3
Lims ID: CCV INT
Client ID:
Operator ID: JZ ALS Bottle#: 7 Worklist Smp#: 20
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: Detector LC DAD1C, 215 nm

15 Nitroglycerin, CAS: 55-63-0

Signal: 1

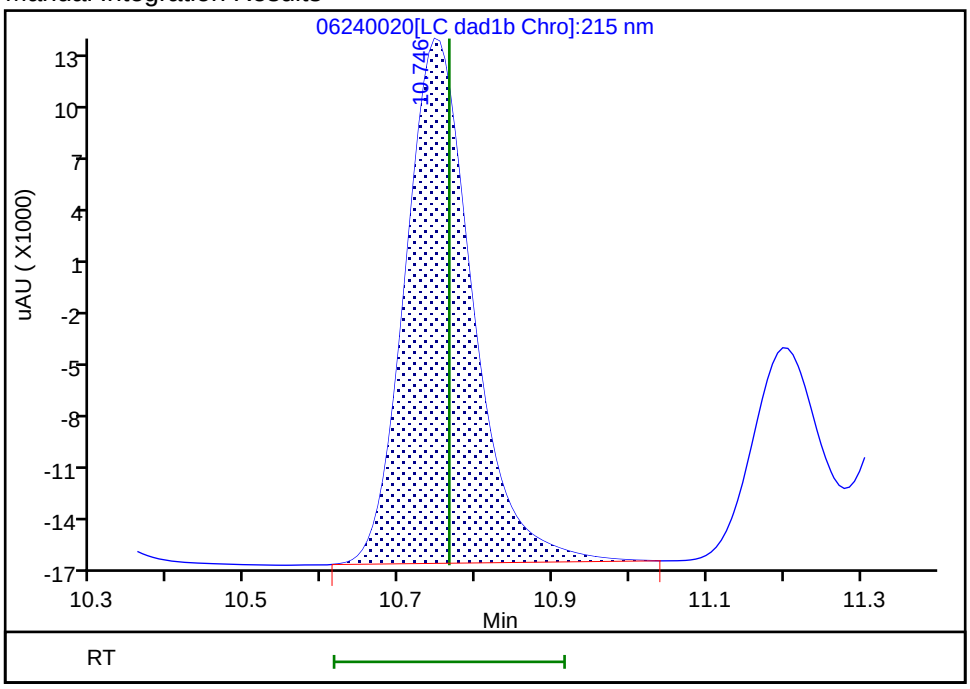
Processing Integration Results

RT: 10.75
Area: 205547
Amount: 3.016829
Amount Units: ug/mL



Manual Integration Results

RT: 10.75
Area: 180772
Amount: 2.653204
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 21:49:26
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

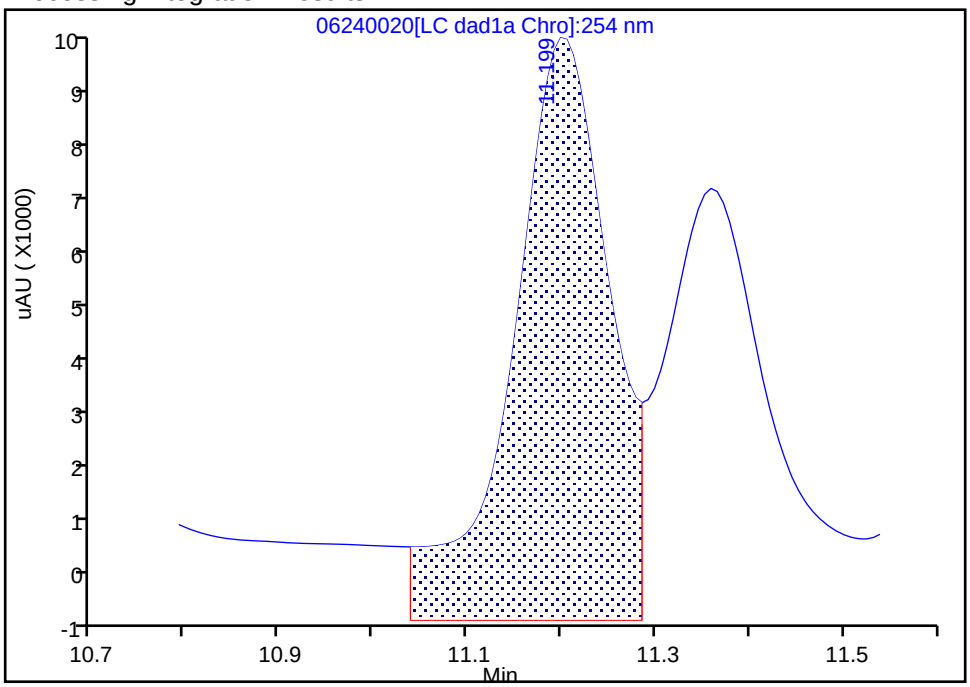
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240020.d				
Injection Date:	24-Jun-2020 21:15:07	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

16 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

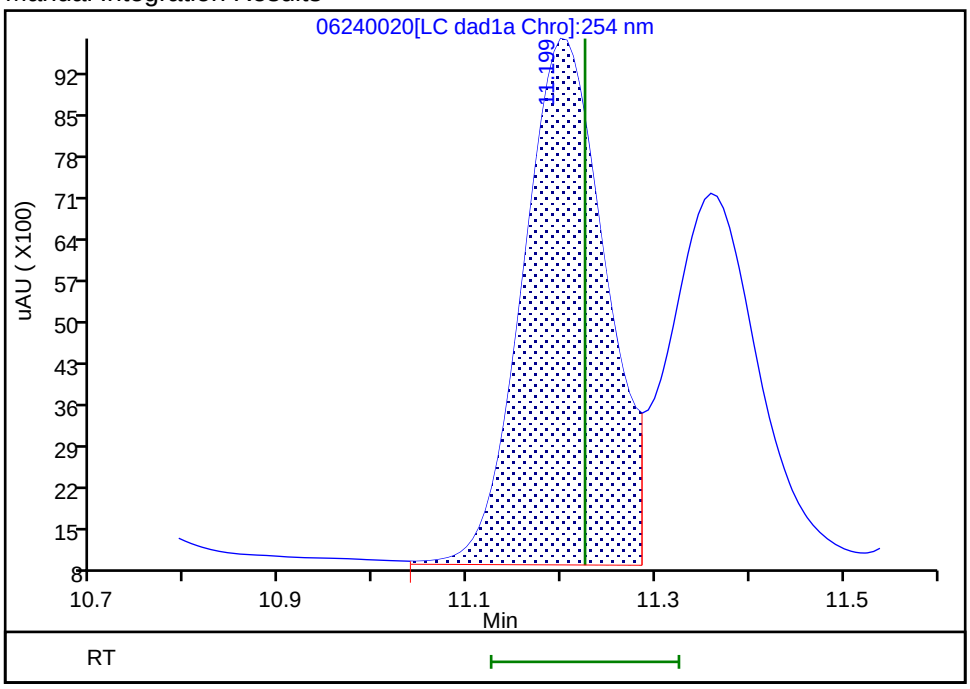
Processing Integration Results

RT: 11.20
Area: 72738
Amount: 0.356505
Amount Units: ug/mL



Manual Integration Results

RT: 11.20
Area: 54675
Amount: 0.267974
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 21:49:36
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

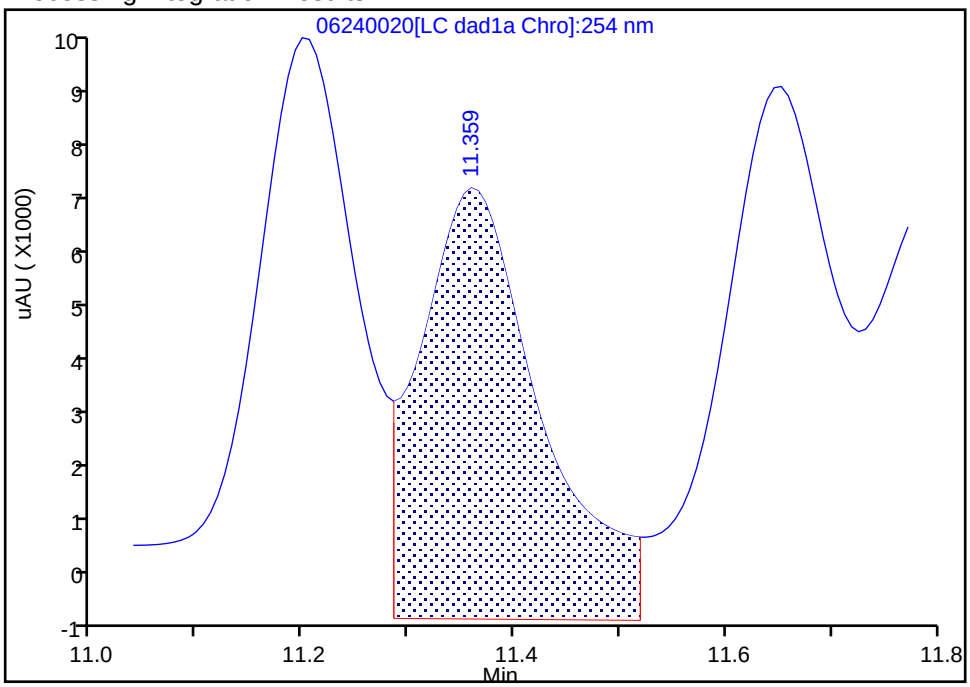
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240020.d				
Injection Date:	24-Jun-2020 21:15:07	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

17 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

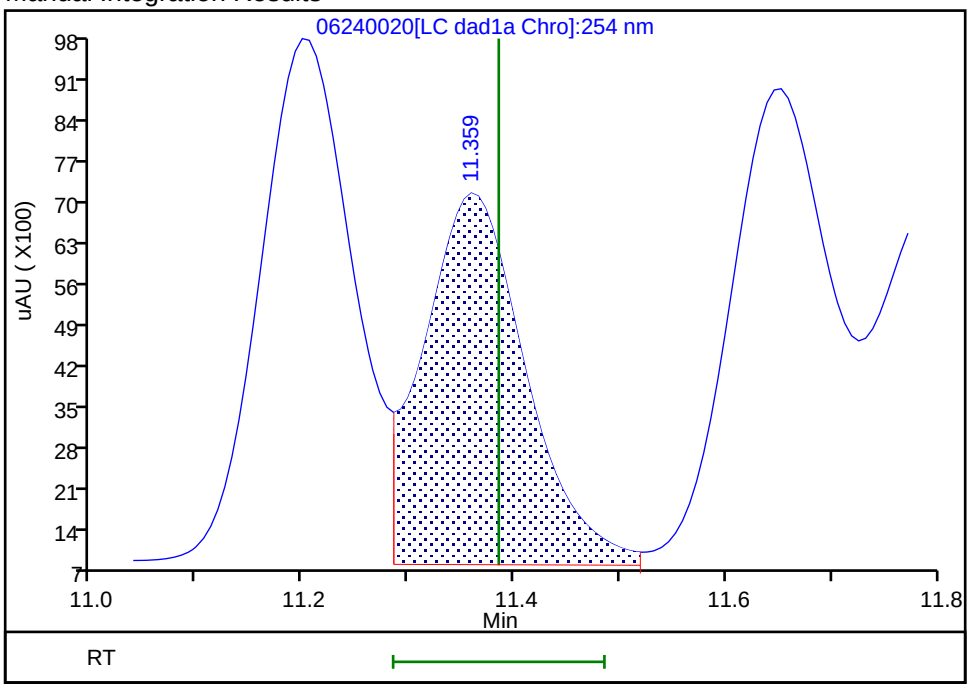
Processing Integration Results

RT: 11.36
Area: 59435
Amount: 0.339730
Amount Units: ug/mL



Manual Integration Results

RT: 11.36
Area: 42327
Amount: 0.243819
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 21:49:36
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

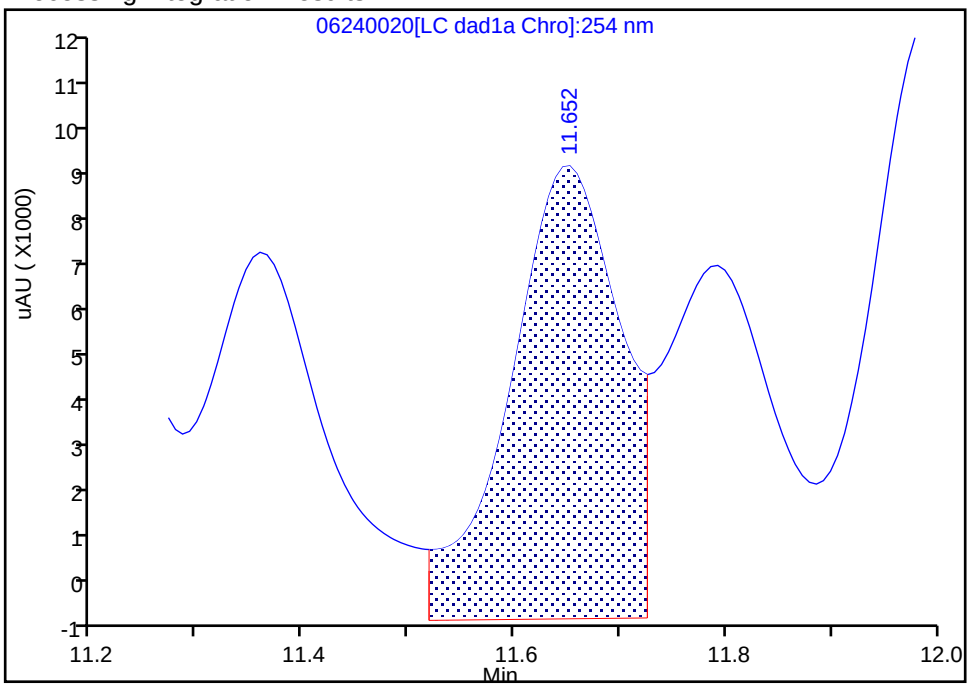
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240020.d				
Injection Date:	24-Jun-2020 21:15:07	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

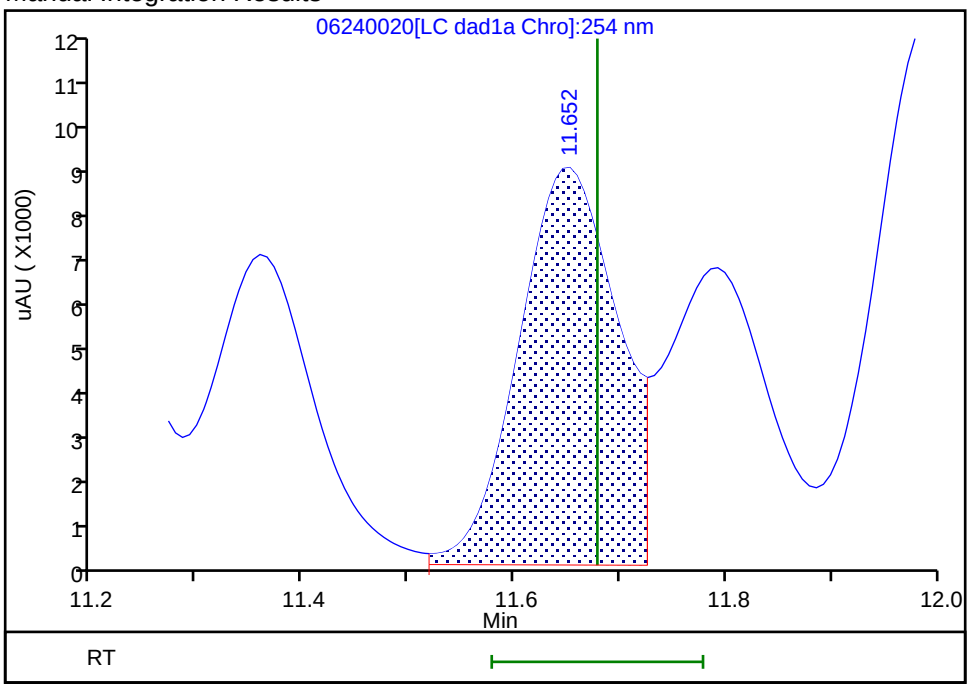
Processing Integration Results

RT: 11.65
Area: 67585
Amount: 0.333232
Amount Units: ug/mL



Manual Integration Results

RT: 11.65
Area: 52705
Amount: 0.259865
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 21:49:36
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

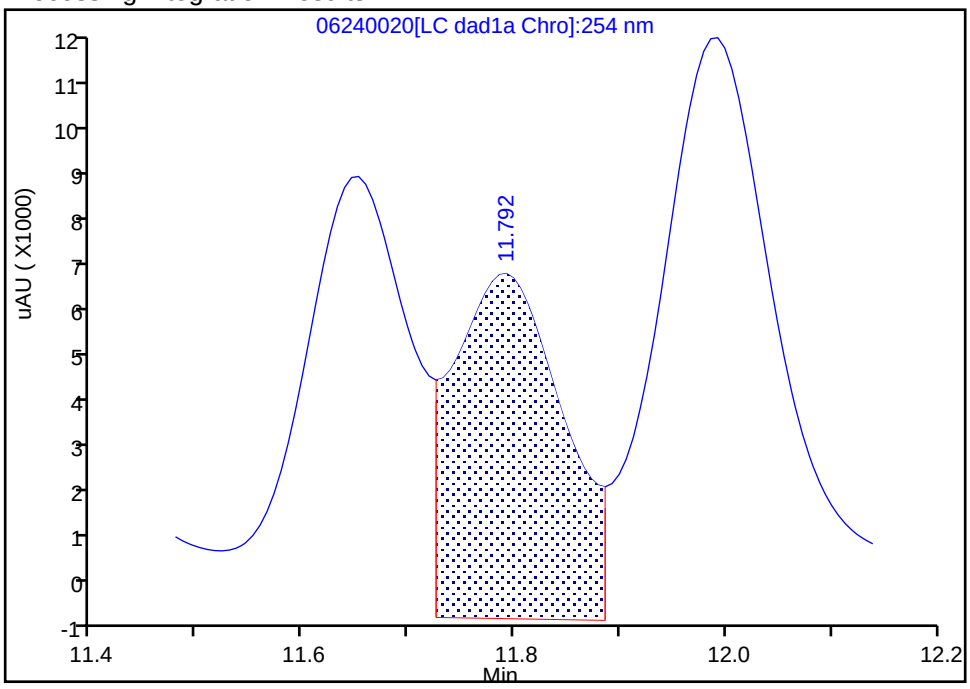
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240020.d				
Injection Date:	24-Jun-2020 21:15:07	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

19 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

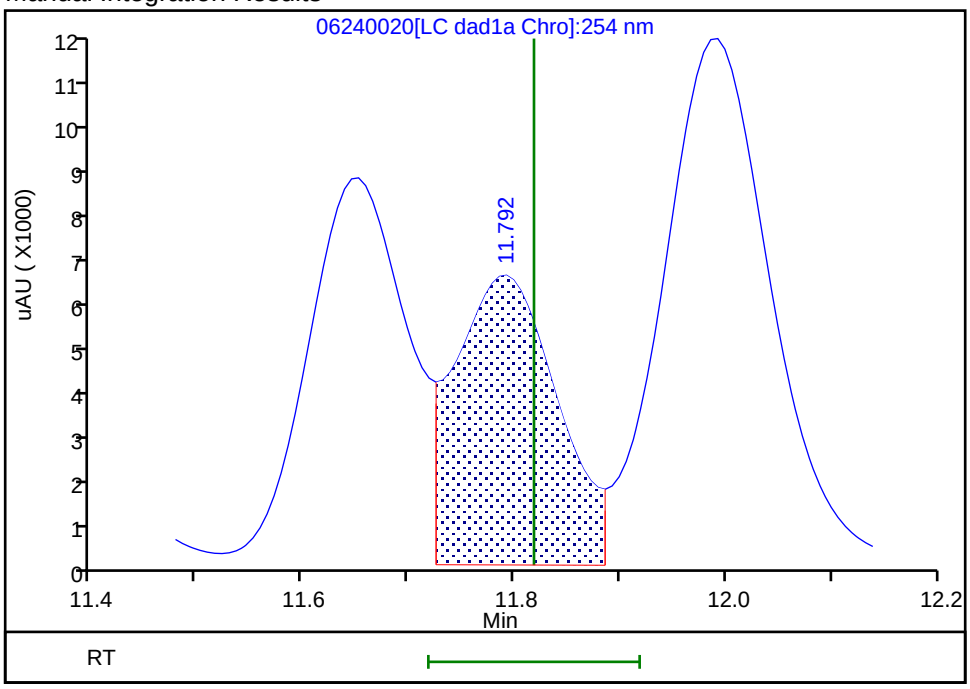
Processing Integration Results

RT: 11.79
Area: 52098
Amount: 0.348593
Amount Units: ug/mL



Manual Integration Results

RT: 11.79
Area: 40641
Amount: 0.271933
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 21:49:36
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

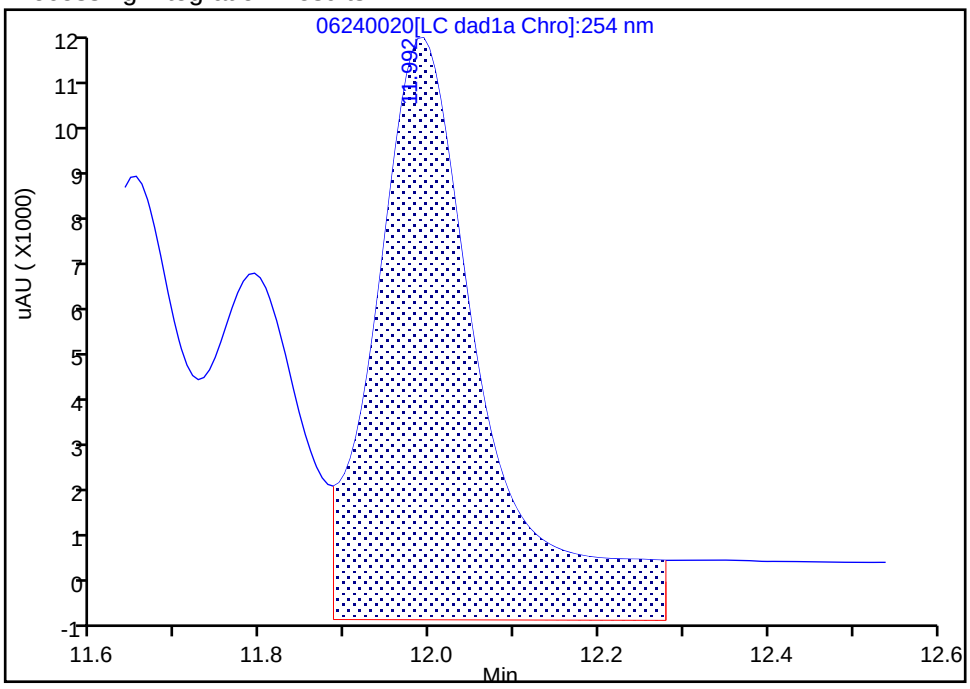
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240020.d				
Injection Date:	24-Jun-2020 21:15:07	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

20 2,4-Dinitrotoluene, CAS: 121-14-2

Signal: 1

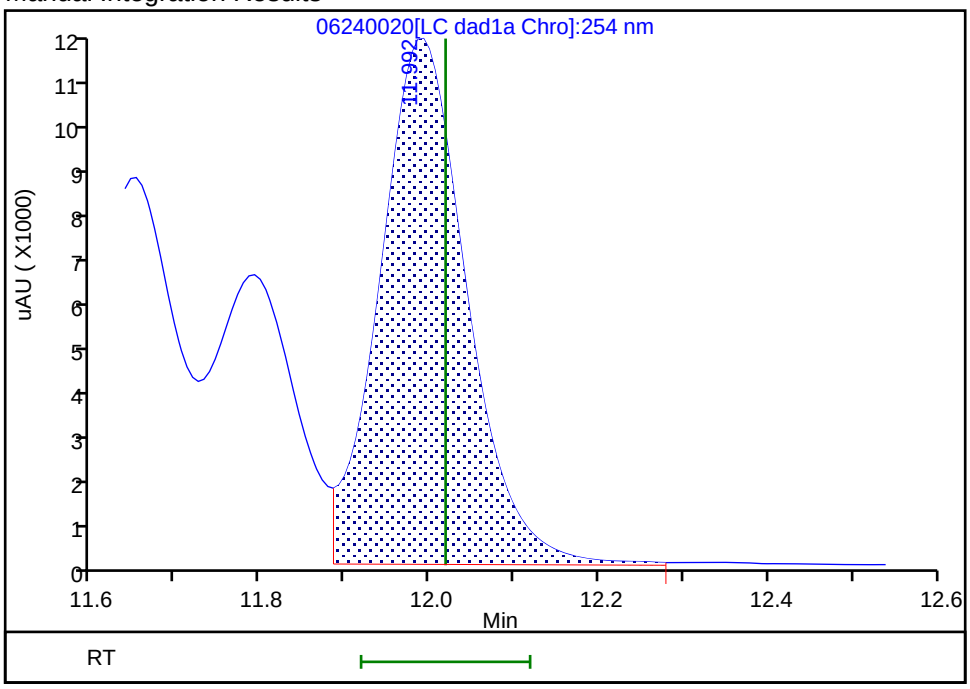
Processing Integration Results

RT: 11.99
Area: 108014
Amount: 0.355796
Amount Units: ug/mL



Manual Integration Results

RT: 11.99
Area: 79340
Amount: 0.261344
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 21:49:36
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

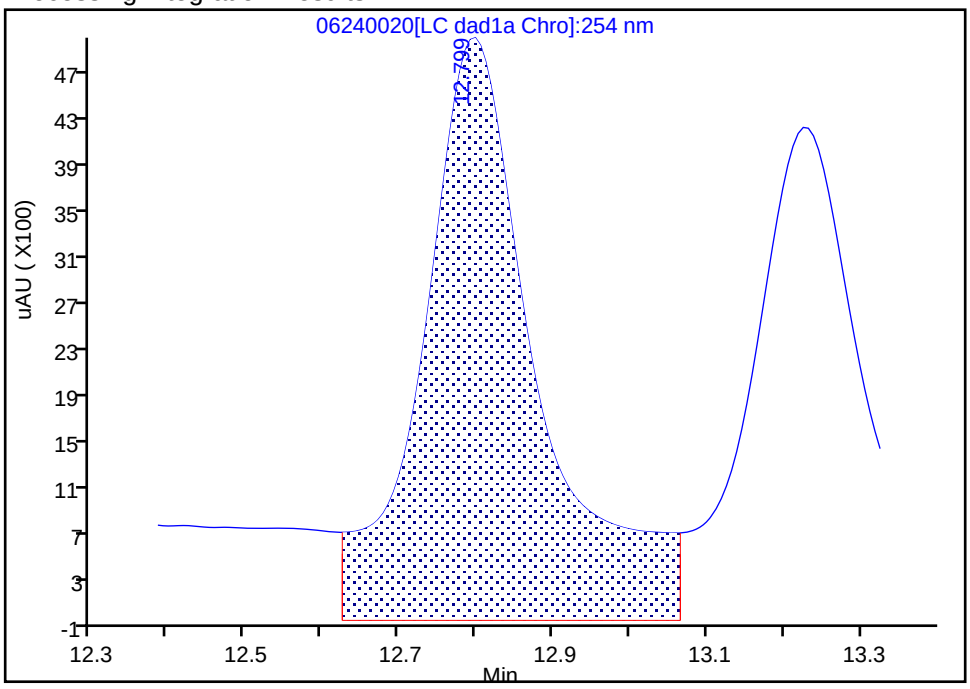
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240020.d				
Injection Date:	24-Jun-2020 21:15:07	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

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

Signal: 1

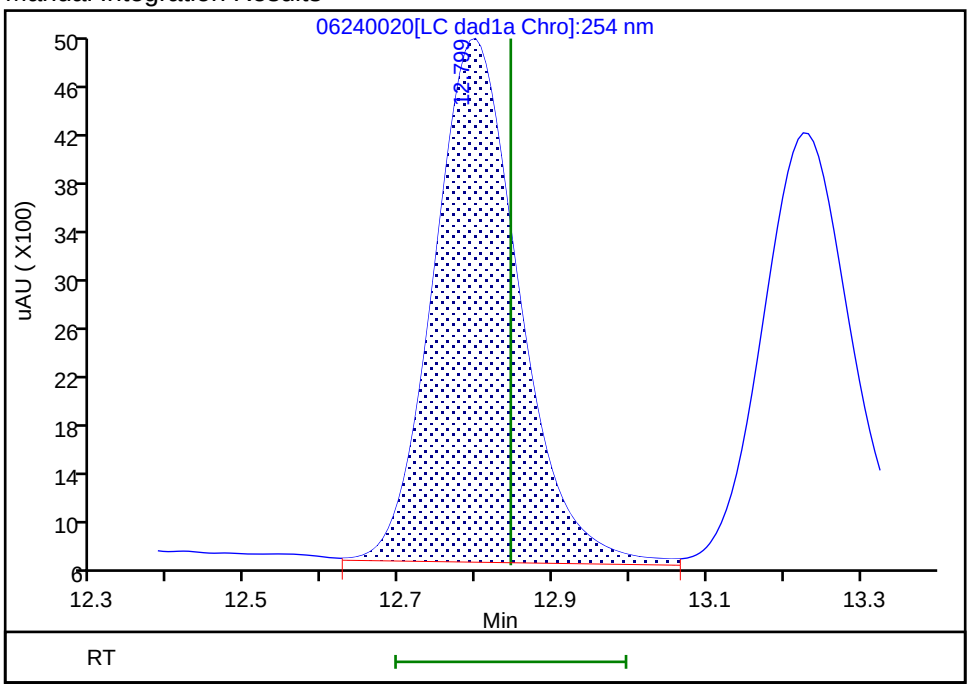
Processing Integration Results

RT: 12.80
Area: 51963
Amount: 0.384766
Amount Units: ug/mL



Manual Integration Results

RT: 12.80
Area: 33021
Amount: 0.244508
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 21:49:45
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

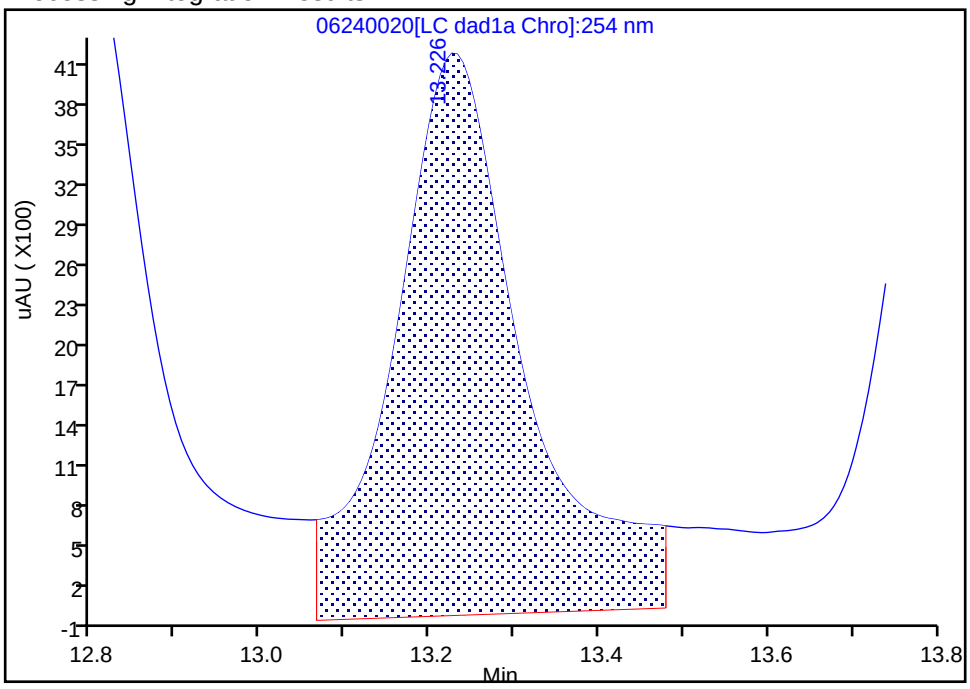
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240020.d				
Injection Date:	24-Jun-2020 21:15:07	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

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

Signal: 1

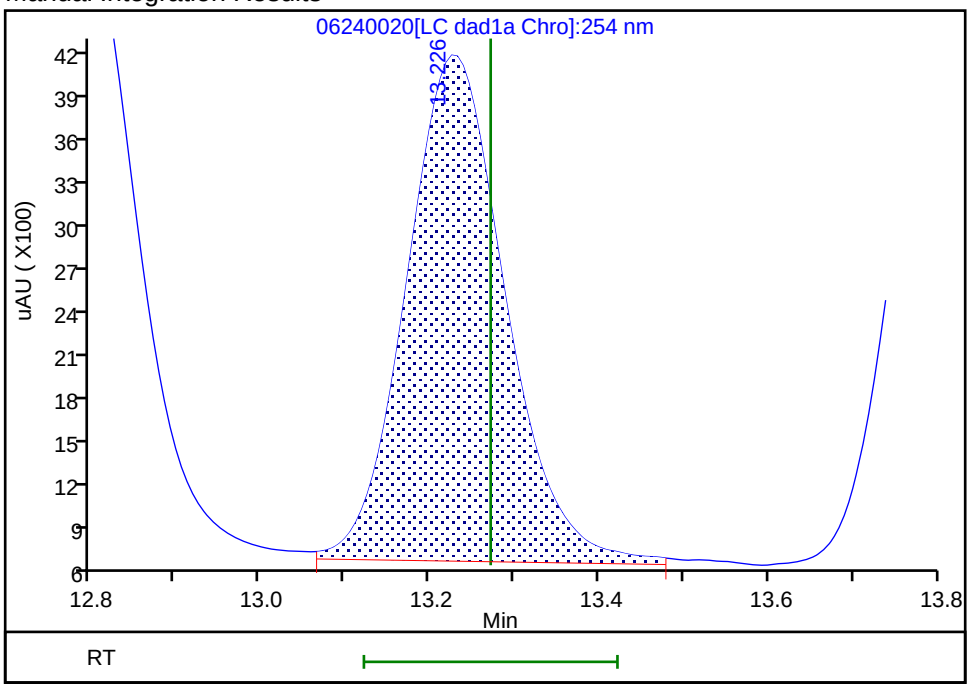
Processing Integration Results

RT: 13.23
Area: 44506
Amount: 0.393841
Amount Units: ug/mL



Manual Integration Results

RT: 13.23
Area: 28844
Amount: 0.255245
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 21:49:45
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

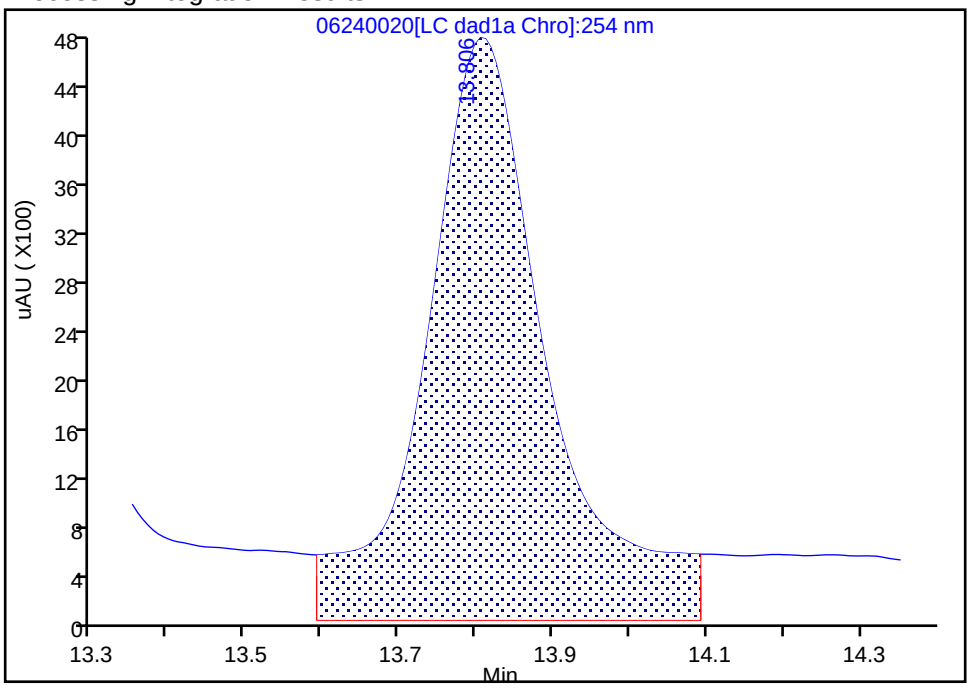
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240020.d				
Injection Date:	24-Jun-2020 21:15:07	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

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

Signal: 1

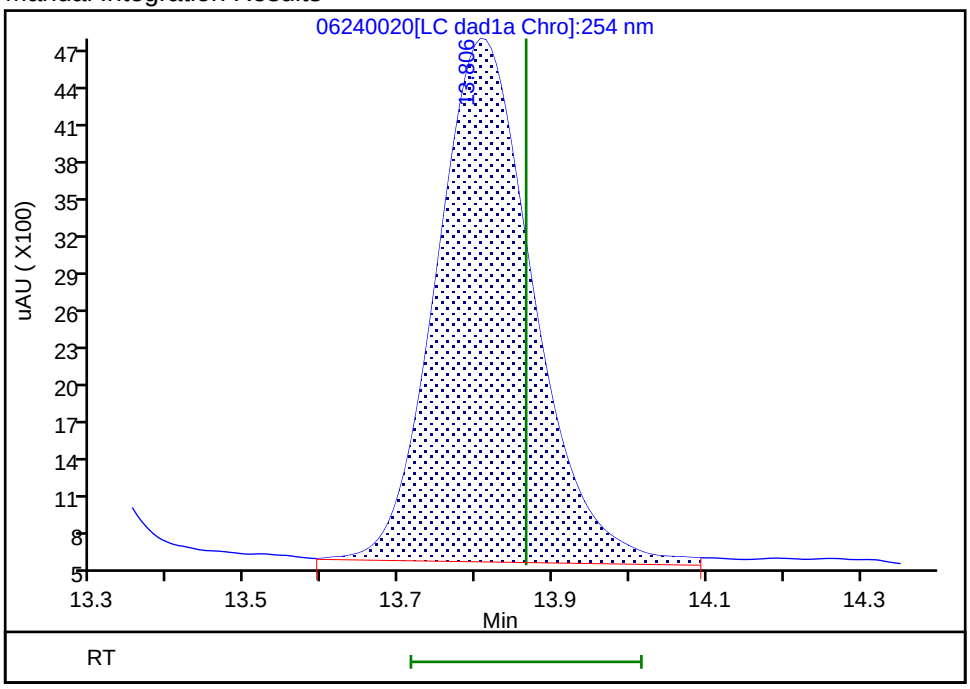
Processing Integration Results

RT: 13.81
Area: 51499
Amount: 0.360061
Amount Units: ug/mL



Manual Integration Results

RT: 13.81
Area: 36664
Amount: 0.256340
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 21:49:45
Audit Action: Assigned New Baseline Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499988/21 Calibration Date: 06/24/2020 21:38

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06240021.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	202705		233	250	-6.8	15.0
DNX	Ave	152928	147425		241	250	-3.6	15.0
MNX	Ave	158544	138886		256	292	-12.4	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499988/21 Calibration Date: 06/24/2020 21:38

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06240021.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.62	6.52	6.72
DNX	6.94	6.84	7.04
MNX	7.38	7.23	7.53

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240021.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	24-Jun-2020 21:38:16	ALS Bottle#:	9	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092716-021				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	25-Jun-2020 21:10:16	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1063				
First Level Reviewer: zhangji		Date:	24-Jun-2020 22:09:11		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.618	6.617	0.001	50727	0.2503	0.2331	M
5 DNX	1	6.938	6.937	0.001	36893	0.2503	0.2412	M
6 MNX	1	7.378	7.384	-0.006	40520	0.2918	0.2556	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00006 Amount Added: 12.50 Units: uL

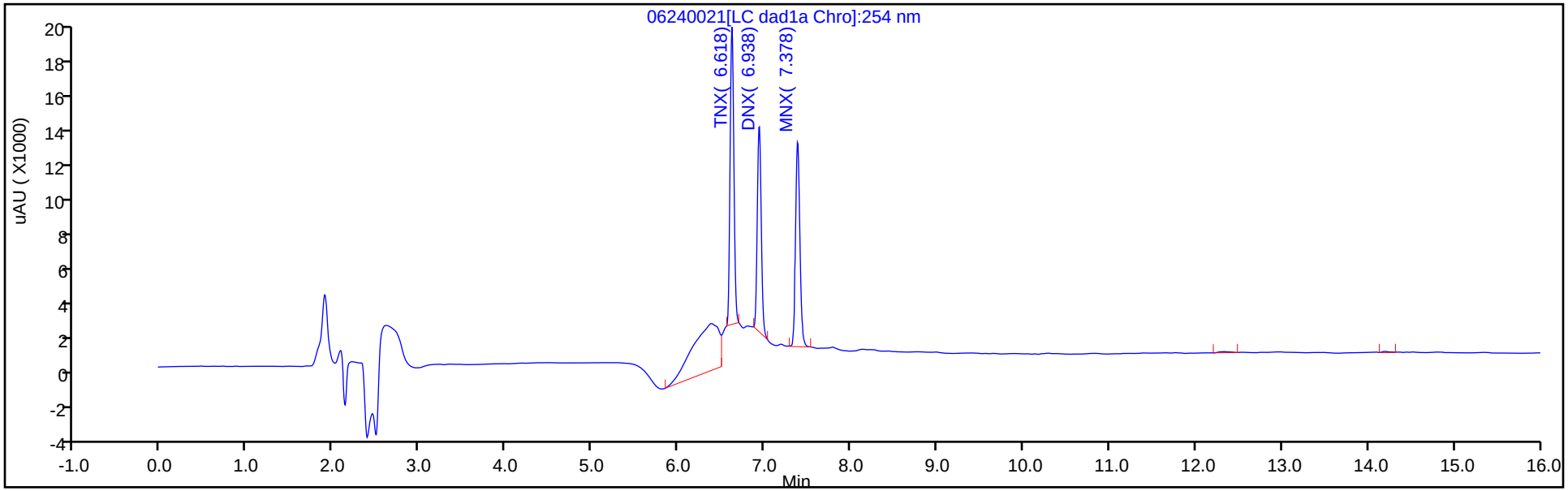
Report Date: 25-Jun-2020 21:10:17 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

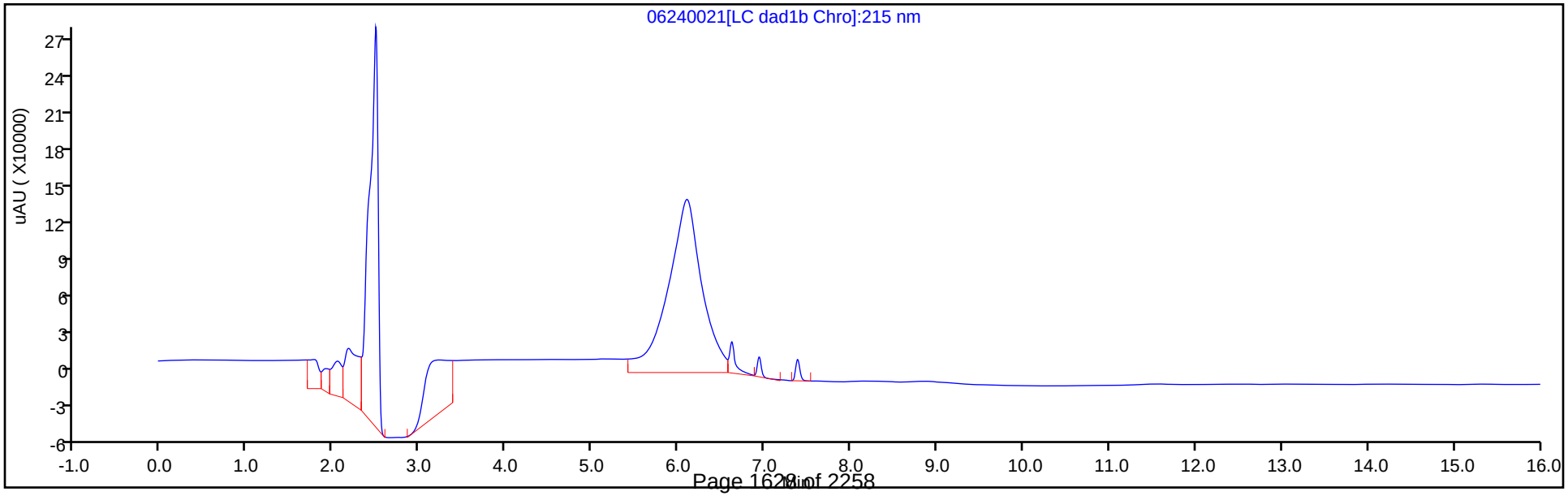
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240021.d

Injection Date:	24-Jun-2020 21:38:16	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	21
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

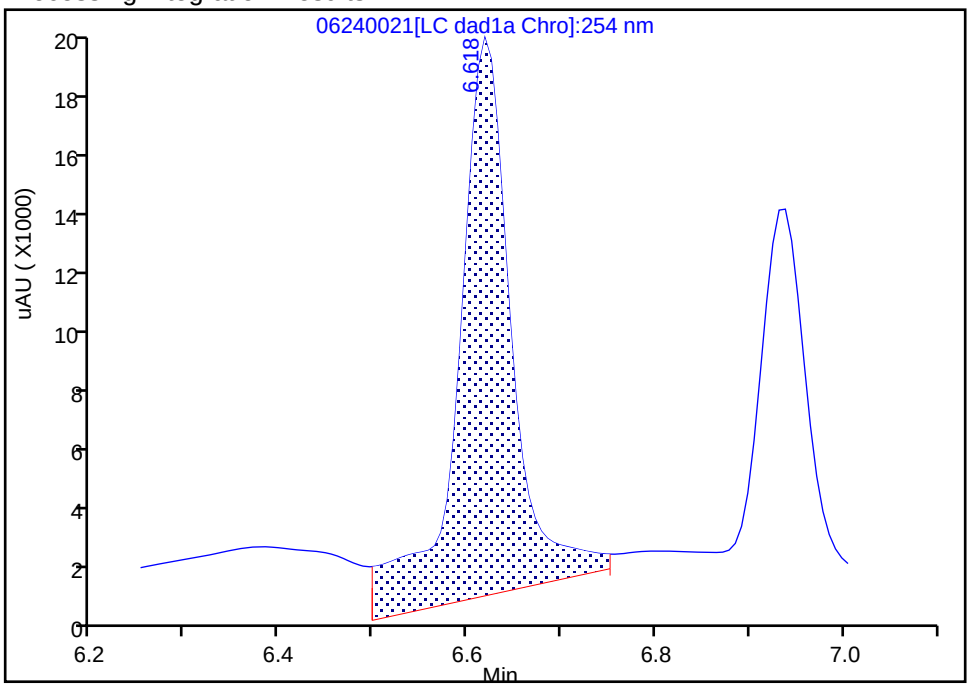
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240021.d				
Injection Date:	24-Jun-2020 21:38:16	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

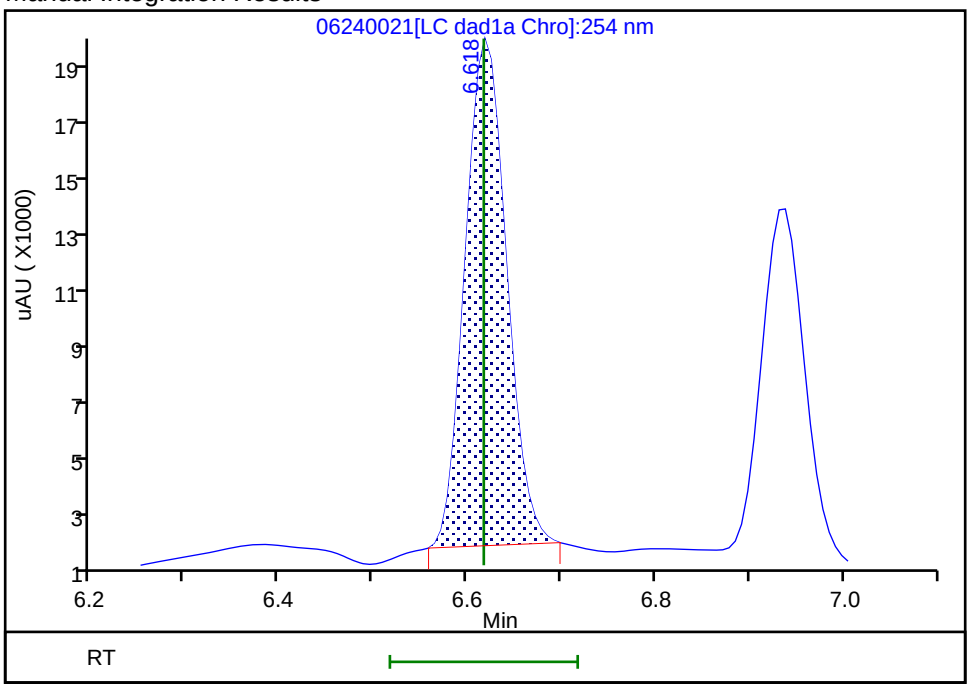
Processing Integration Results

RT: 6.62
Area: 72376
Amount: 0.332597
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 50727
Amount: 0.233111
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 22:08:53
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

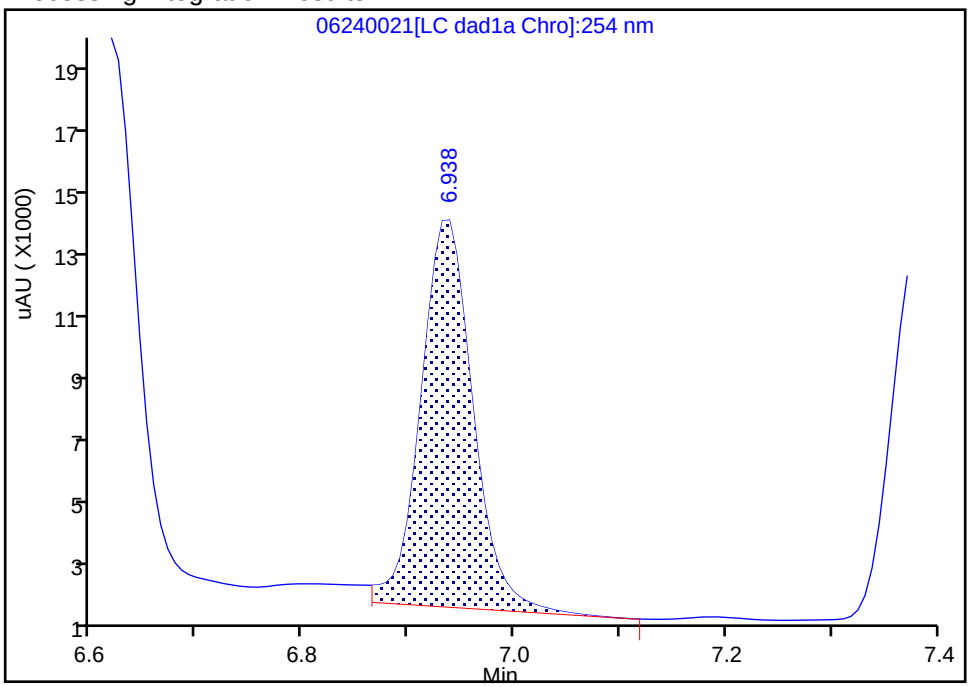
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240021.d				
Injection Date:	24-Jun-2020 21:38:16	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

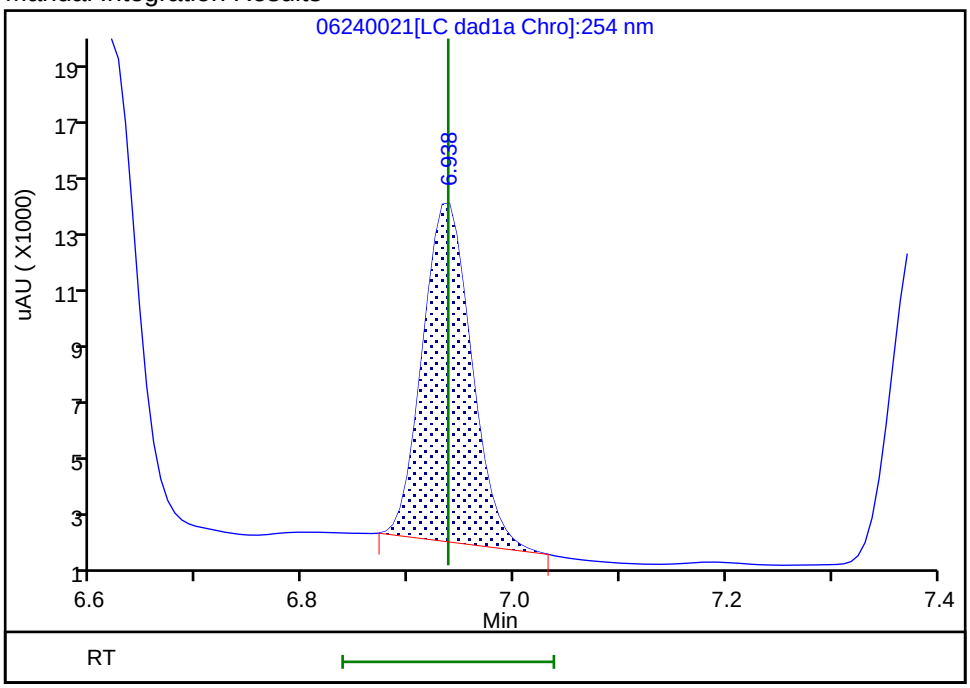
Processing Integration Results

RT: 6.94
Area: 40699
Amount: 0.266131
Amount Units: ug/mL



Manual Integration Results

RT: 6.94
Area: 36893
Amount: 0.241244
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 22:09:02

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499988/32 Calibration Date: 06/25/2020 01:51

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06240032.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	88076		256	250	2.5	15.0
RDX	Ave	116613	110912		238	250	-4.9	15.0
Picric acid	Ave	85131	85832		252	250	0.8	15.0
1,3,5-Trinitrobenzene	Ave	230309	240224		261	251	4.3	15.0
1,3-Dinitrobenzene	Ave	306686	323014		264	251	5.3	15.0
Nitrobenzene	Ave	200403	198673		249	251	-0.9	15.0
Tetryl	Ave	177032	182587		258	251	3.1	15.0
Nitroglycerin	Ave	68133	72557		2660	2500	6.5	15.0
2,4,6-Trinitrotoluene	Ave	204031	215263		265	251	5.5	15.0
4-Amino-2,6-dinitrotoluene	Lin2		164891		238	250	-5.0	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	206741		256	251	1.9	15.0
2,6-Dinitrotoluene	Ave	149452	163084		274	251	9.1	15.0
2,4-Dinitrotoluene	Ave	303584	315550		261	251	3.9	15.0
2-Nitrotoluene	Ave	135051	127728		236	250	-5.4	15.0
4-Nitrotoluene	Ave	113005	111102		246	251	-1.7	15.0
3-Nitrotoluene	Ave	143029	139405		244	250	-2.5	15.0
PETN	Ave	78605	84912		2700	2500	8.0	15.0
1,2-Dinitrobenzene	Ave	138212	145408		263	250	5.2	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499989/32 Calibration Date: 06/25/2020 01:51

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06240032.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	88076		256	250	2.5	15.0
RDX	Ave	116613	110912		238	250	-4.9	15.0
Picric acid	Ave	85131	85832		252	250	0.8	15.0
1,3,5-Trinitrobenzene	Ave	230309	240224		261	251	4.3	15.0
1,3-Dinitrobenzene	Ave	306686	323014		264	251	5.3	15.0
Nitrobenzene	Ave	200403	198673		249	251	-0.9	15.0
Tetryl	Ave	177032	182587		258	251	3.1	15.0
Nitroglycerin	Ave	68133	72557		2660	2500	6.5	15.0
2,4,6-Trinitrotoluene	Ave	204031	215263		265	251	5.5	15.0
4-Amino-2,6-dinitrotoluene	Lin2		164891		238	250	-5.0	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	206741		256	251	1.9	15.0
2,6-Dinitrotoluene	Ave	149452	163084		274	251	9.1	15.0
2,4-Dinitrotoluene	Ave	303584	315550		261	251	3.9	15.0
2-Nitrotoluene	Ave	135051	127728		236	250	-5.4	15.0
4-Nitrotoluene	Ave	113005	111102		246	251	-1.7	15.0
3-Nitrotoluene	Ave	143029	139405		244	250	-2.5	15.0
PETN	Ave	78605	84912		2700	2500	8.0	15.0
1,2-Dinitrobenzene	Ave	138212	145408		263	250	5.2	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499988/32 Calibration Date: 06/25/2020 01:51

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06240032.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.71	6.56	6.86
RDX	7.79	7.64	7.94
Picric acid	8.09	7.94	8.24
1,3,5-Trinitrobenzene	8.93	8.77	9.07
1,3-Dinitrobenzene	9.58	9.42	9.72
Nitrobenzene	9.95	9.80	10.10
Tetryl	10.26	10.10	10.40
Nitroglycerin	10.76	10.62	10.92
2,4,6-Trinitrotoluene	11.21	11.13	11.33
4-Amino-2,6-dinitrotoluene	11.37	11.29	11.49
2-Amino-4,6-dinitrotoluene	11.67	11.58	11.78
2,6-Dinitrotoluene	11.81	11.72	11.92
2,4-Dinitrotoluene	12.01	11.92	12.12
2-Nitrotoluene	12.81	12.70	13.00
4-Nitrotoluene	13.23	13.12	13.42
3-Nitrotoluene	13.81	13.72	14.02
PETN	14.87	14.81	15.11
1,2-Dinitrobenzene	8.75	8.59	8.89

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499989/32 Calibration Date: 06/25/2020 01:51

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06240032.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.71	6.56	6.86
RDX	7.79	7.64	7.94
Picric acid	8.09	7.94	8.24
1,3,5-Trinitrobenzene	8.93	8.77	9.07
1,3-Dinitrobenzene	9.58	9.42	9.72
Nitrobenzene	9.95	9.80	10.10
Tetryl	10.26	10.10	10.40
Nitroglycerin	10.76	10.62	10.92
2,4,6-Trinitrotoluene	11.21	11.13	11.33
4-Amino-2,6-dinitrotoluene	11.37	11.29	11.49
2-Amino-4,6-dinitrotoluene	11.67	11.58	11.78
2,6-Dinitrotoluene	11.81	11.72	11.92
2,4-Dinitrotoluene	12.01	11.92	12.12
2-Nitrotoluene	12.81	12.70	13.00
4-Nitrotoluene	13.23	13.12	13.42
3-Nitrotoluene	13.81	13.72	14.02
PETN	14.87	14.81	15.11
1,2-Dinitrobenzene	8.75	8.59	8.89

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240032.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 25-Jun-2020 01:51:22 ALS Bottle#: 7 Worklist Smp#: 32
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0092716-032
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:03 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 15:55:10

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.714	6.712	0.002	22019	0.2500	0.2561	M
7 RDX	1	7.787	7.785	0.002	27728	0.2500	0.2378	
8 2,4,6-Trinitrophenol	1	8.094	8.085	0.009	21458	0.2500	0.2521	
$ 9 1,2-Dinitrobenzene	1	8.747	8.738	0.009	36352	0.2500	0.2630	
10 1,3,5-Trinitrobenzene	1	8.927	8.918	0.009	60176	0.2505	0.2613	
11 1,3-Dinitrobenzene	1	9.581	9.565	0.016	80915	0.2505	0.2638	
12 Nitrobenzene	1	9.954	9.945	0.009	49867	0.2510	0.2488	
14 Tetryl	1	10.261	10.252	0.009	45738	0.2505	0.2584	
15 Nitroglycerin	2	10.761	10.765	-0.004	181393	2.50	2.66	
16 2,4,6-Trinitrotoluene	1	11.214	11.225	-0.011	54031	0.2510	0.2648	
17 4-Amino-2,6-dinitrotoluene	1	11.374	11.385	-0.011	41264	0.2503	0.2379	
18 2-Amino-4,6-dinitrotoluene	1	11.667	11.678	-0.011	51892	0.2510	0.2559	
19 2,6-Dinitrotoluene	1	11.807	11.818	-0.011	40934	0.2510	0.2739	
20 2,4-Dinitrotoluene	1	12.007	12.018	-0.011	79203	0.2510	0.2609	
21 o-Nitrotoluene	1	12.807	12.845	-0.038	31932	0.2500	0.2364	
22 p-Nitrotoluene	1	13.234	13.272	-0.038	27831	0.2505	0.2463	
23 m-Nitrotoluene	1	13.814	13.865	-0.051	34886	0.2503	0.2439	
24 PETN	2	14.874	14.958	-0.084	212279	2.50	2.70	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00061 Amount Added: 25.00 Units: uL

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240032.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 25-Jun-2020 01:51:22 ALS Bottle#: 7 Worklist Smp#: 32
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0092716-032
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:03 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 15:55:10

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.714	6.712	0.002	22019	0.2500	0.2561	M
7 RDX	1	7.787	7.785	0.002	27728	0.2500	0.2378	
8 2,4,6-Trinitrophenol	1	8.094	8.085	0.009	21458	0.2500	0.2521	
$ 9 1,2-Dinitrobenzene	1	8.747	8.738	0.009	36352	0.2500	0.2630	
10 1,3,5-Trinitrobenzene	1	8.927	8.918	0.009	60176	0.2505	0.2613	
11 1,3-Dinitrobenzene	1	9.581	9.565	0.016	80915	0.2505	0.2638	
12 Nitrobenzene	1	9.954	9.945	0.009	49867	0.2510	0.2488	
14 Tetryl	1	10.261	10.252	0.009	45738	0.2505	0.2584	
15 Nitroglycerin	2	10.761	10.765	-0.004	181393	2.50	2.66	
16 2,4,6-Trinitrotoluene	1	11.214	11.225	-0.011	54031	0.2510	0.2648	
17 4-Amino-2,6-dinitrotoluene	1	11.374	11.385	-0.011	41264	0.2503	0.2379	
18 2-Amino-4,6-dinitrotoluene	1	11.667	11.678	-0.011	51892	0.2510	0.2559	
19 2,6-Dinitrotoluene	1	11.807	11.818	-0.011	40934	0.2510	0.2739	
20 2,4-Dinitrotoluene	1	12.007	12.018	-0.011	79203	0.2510	0.2609	
21 o-Nitrotoluene	1	12.807	12.845	-0.038	31932	0.2500	0.2364	
22 p-Nitrotoluene	1	13.234	13.272	-0.038	27831	0.2505	0.2463	
23 m-Nitrotoluene	1	13.814	13.865	-0.051	34886	0.2503	0.2439	
24 PETN	2	14.874	14.958	-0.084	212279	2.50	2.70	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00061 Amount Added: 25.00 Units: uL

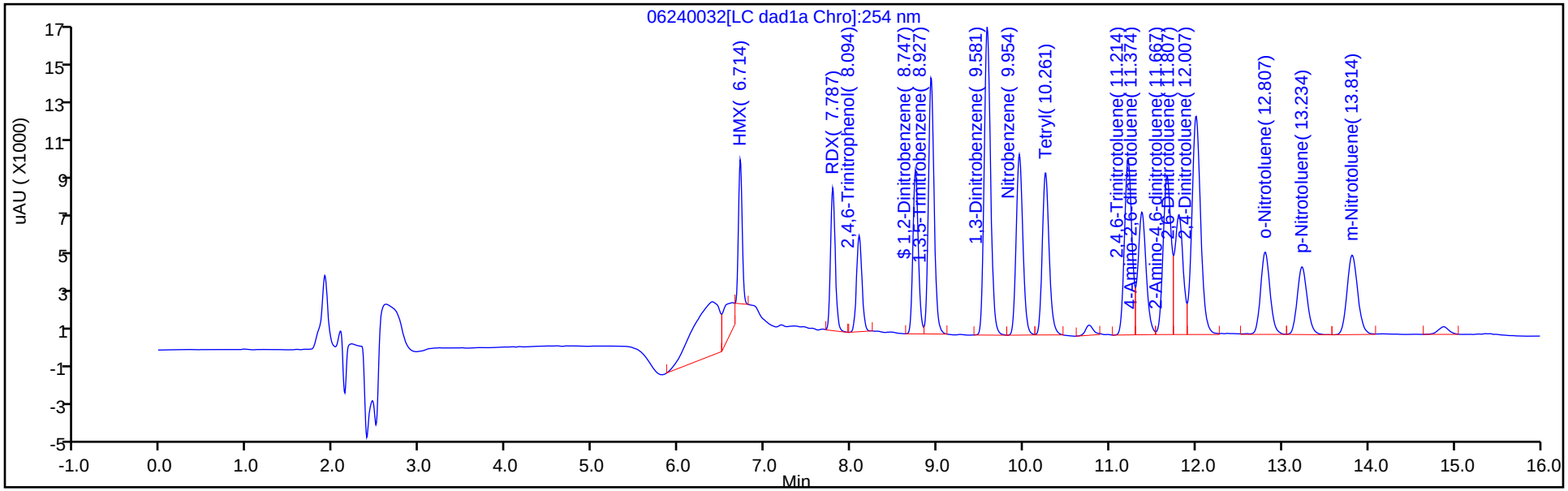
Report Date: 25-Jun-2020 21:10:03 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

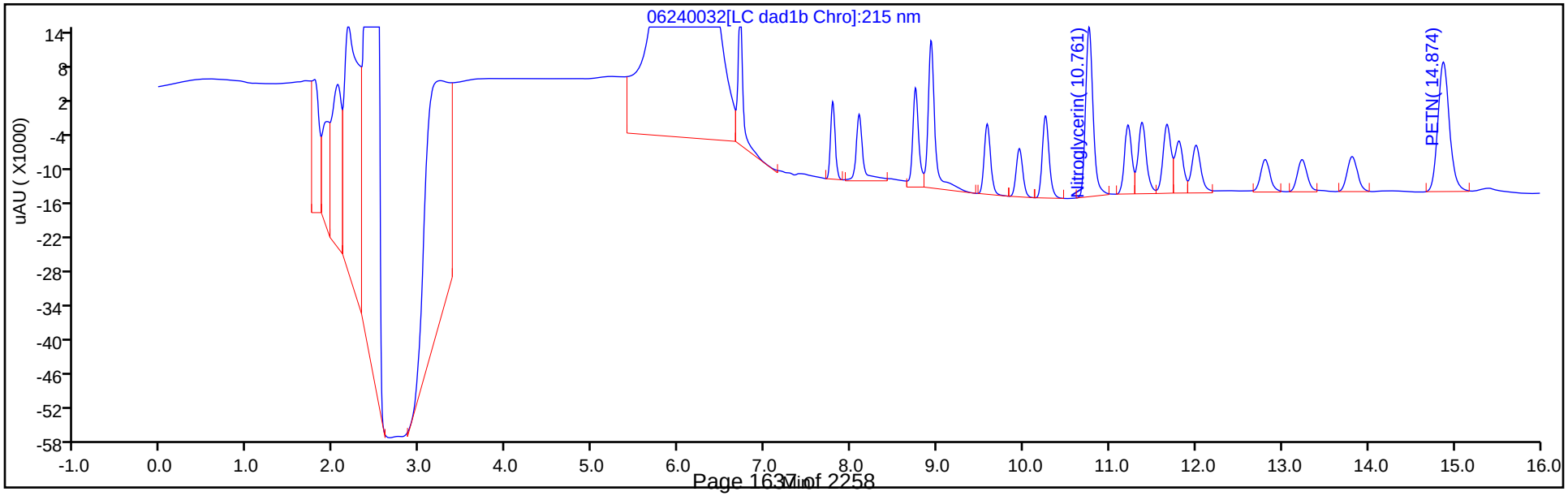
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240032.d

Injection Date:	25-Jun-2020 01:51:22	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	32
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



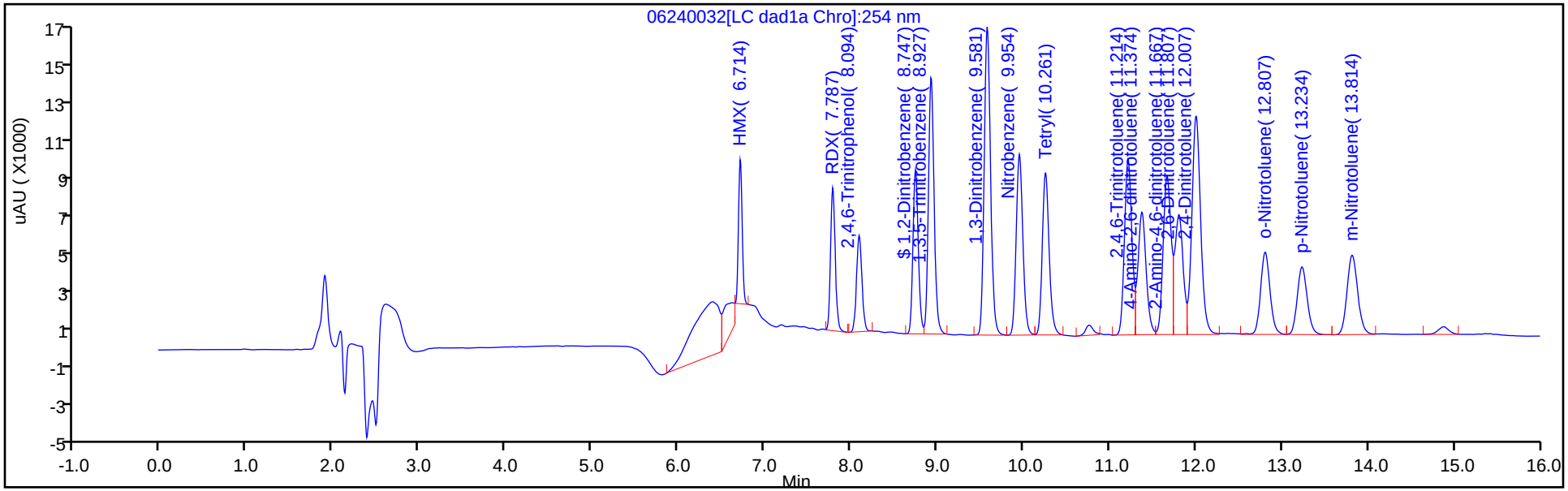
Report Date: 25-Jun-2020 21:10:03 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

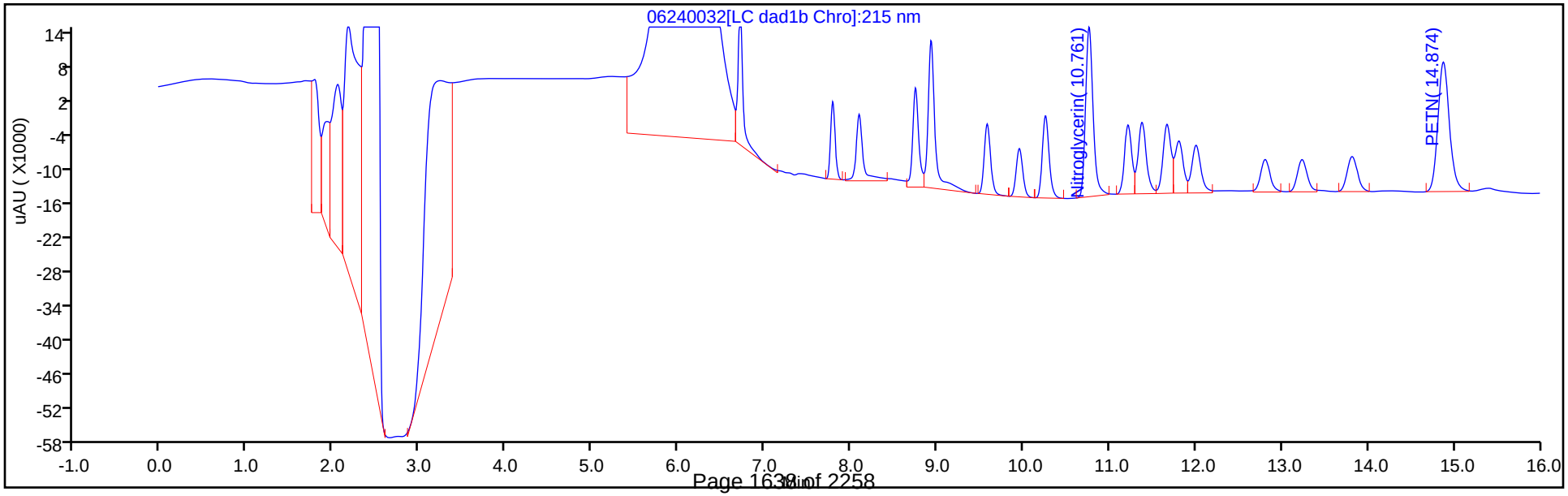
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240032.d

Injection Date:	25-Jun-2020 01:51:22	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	32
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

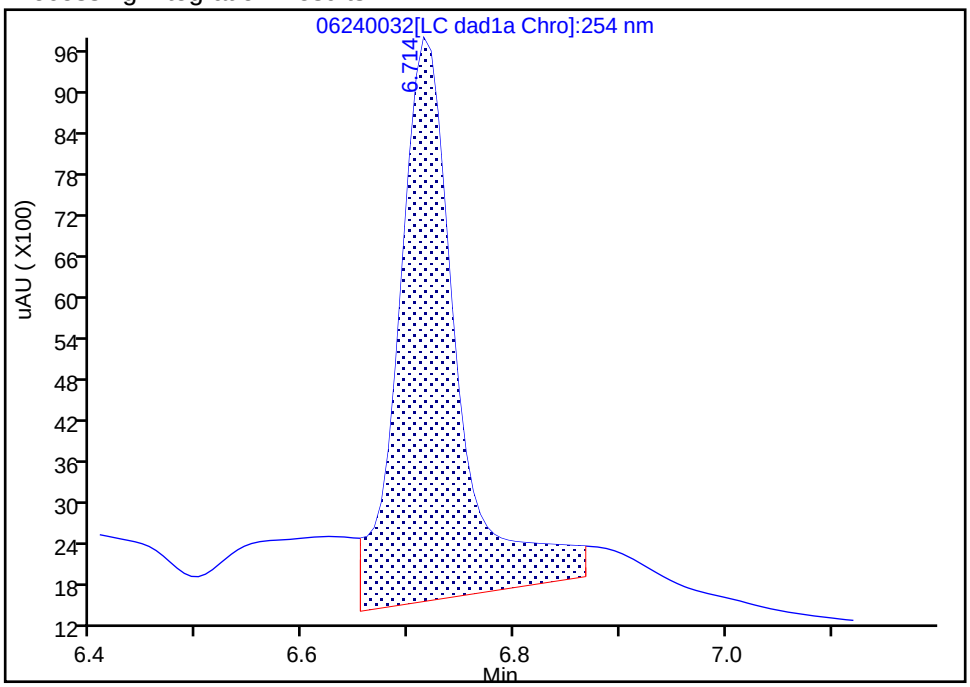
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240032.d				
Injection Date:	25-Jun-2020 01:51:22	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	32
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

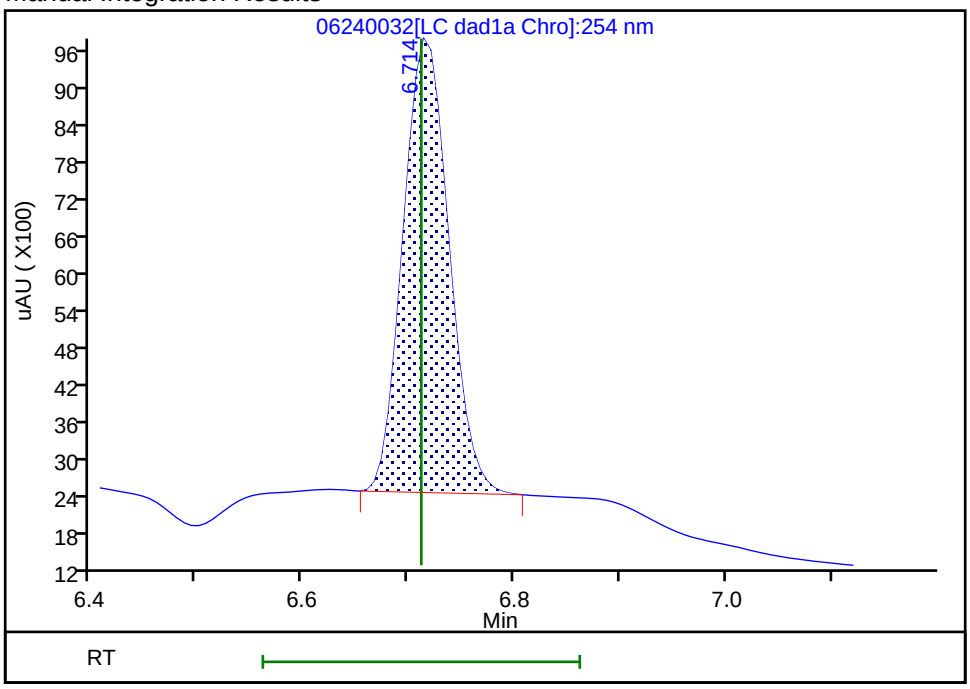
Processing Integration Results

RT: 6.71
Area: 31813
Amount: 0.370081
Amount Units: ug/mL



Manual Integration Results

RT: 6.71
Area: 22019
Amount: 0.256148
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 15:55:08

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

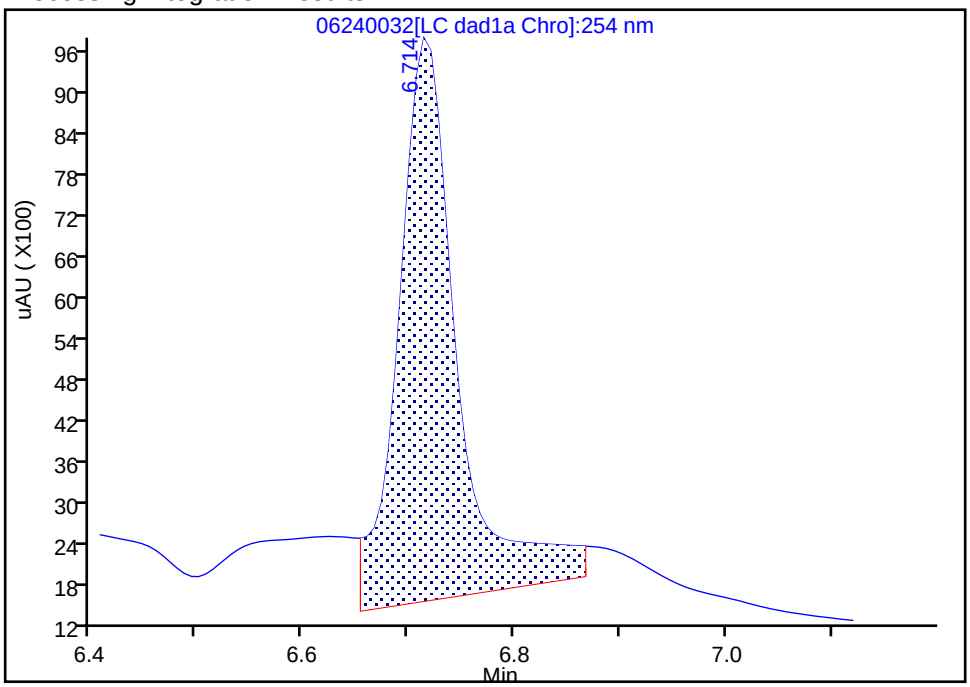
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240032.d				
Injection Date:	25-Jun-2020 01:51:22	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	32
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

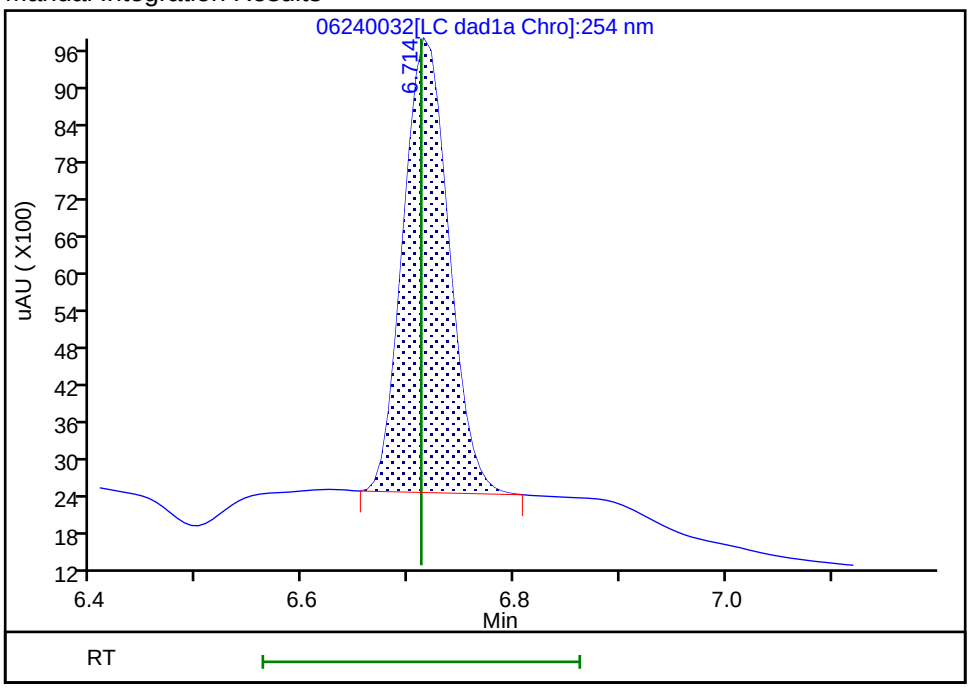
Processing Integration Results

RT: 6.71
Area: 31813
Amount: 0.370081
Amount Units: ug/mL



Manual Integration Results

RT: 6.71
Area: 22019
Amount: 0.256148
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 15:55:08

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499988/33 Calibration Date: 06/25/2020 02:14

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06240033.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	201315		232	250	-7.5	15.0
DNX	Ave	152928	146901		240	250	-3.9	15.0
MNX	Ave	158544	139479		257	292	-12.0	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499989/33 Calibration Date: 06/25/2020 02:14

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06240033.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	201315		232	250	-7.5	15.0
DNX	Ave	152928	146901		240	250	-3.9	15.0
MNX	Ave	158544	139479		257	292	-12.0	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499988/33 Calibration Date: 06/25/2020 02:14

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06240033.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.62	6.52	6.72
DNX	6.94	6.84	7.04
MNX	7.38	7.23	7.53

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499989/33 Calibration Date: 06/25/2020 02:14

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06240033.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.62	6.52	6.72
DNX	6.94	6.84	7.04
MNX	7.38	7.23	7.53

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240033.D
Lims ID: CCV DMT
Client ID:
Sample Type: CCV
Inject. Date: 25-Jun-2020 02:14:33 ALS Bottle#: 9 Worklist Smp#: 33
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV DMT
Misc. Info.: 280-0092716-033
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub17

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:04 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:11:02

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.620	6.617	0.003	50379	0.2503	0.2315	M
5 DNX	1	6.940	6.937	0.003	36762	0.2503	0.2404	M
6 MNX	1	7.380	7.384	-0.004	40693	0.2918	0.2567	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00006 Amount Added: 12.50 Units: uL

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240033.D
Lims ID: CCV DMT
Client ID:
Sample Type: CCV
Inject. Date: 25-Jun-2020 02:14:33 ALS Bottle#: 9 Worklist Smp#: 33
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV DMT
Misc. Info.: 280-0092716-033
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub17

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:04 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:11:02

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.620	6.617	0.003	50379	0.2503	0.2315	M
5 DNX	1	6.940	6.937	0.003	36762	0.2503	0.2404	M
6 MNX	1	7.380	7.384	-0.004	40693	0.2918	0.2567	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00006 Amount Added: 12.50 Units: uL

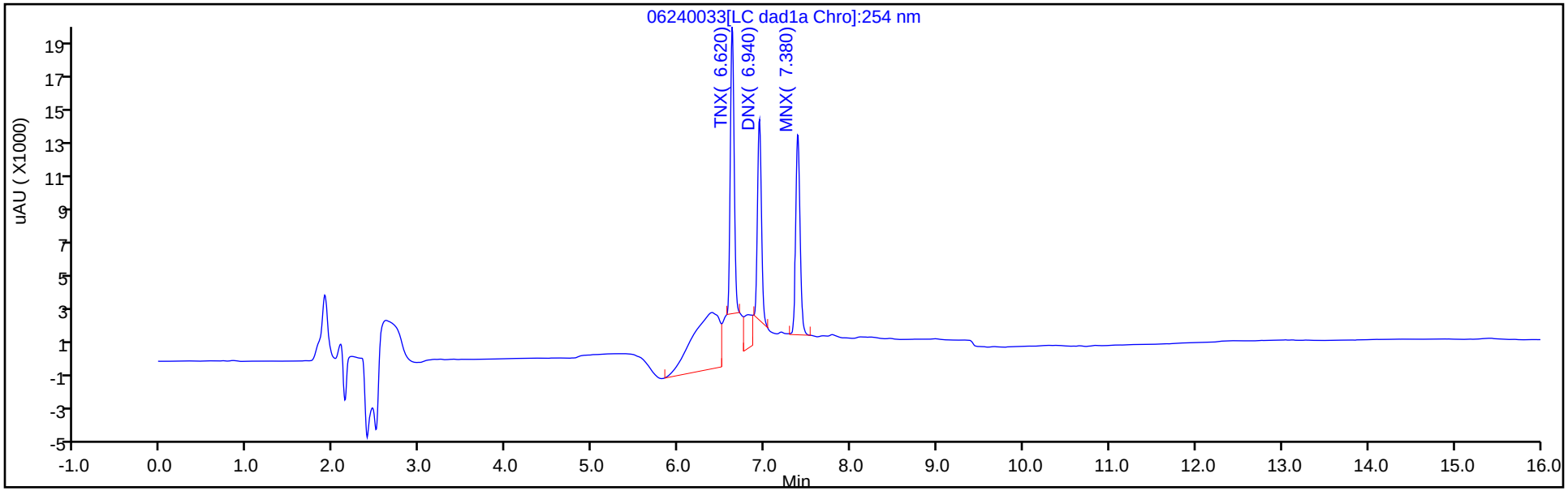
Report Date: 25-Jun-2020 21:10:04 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

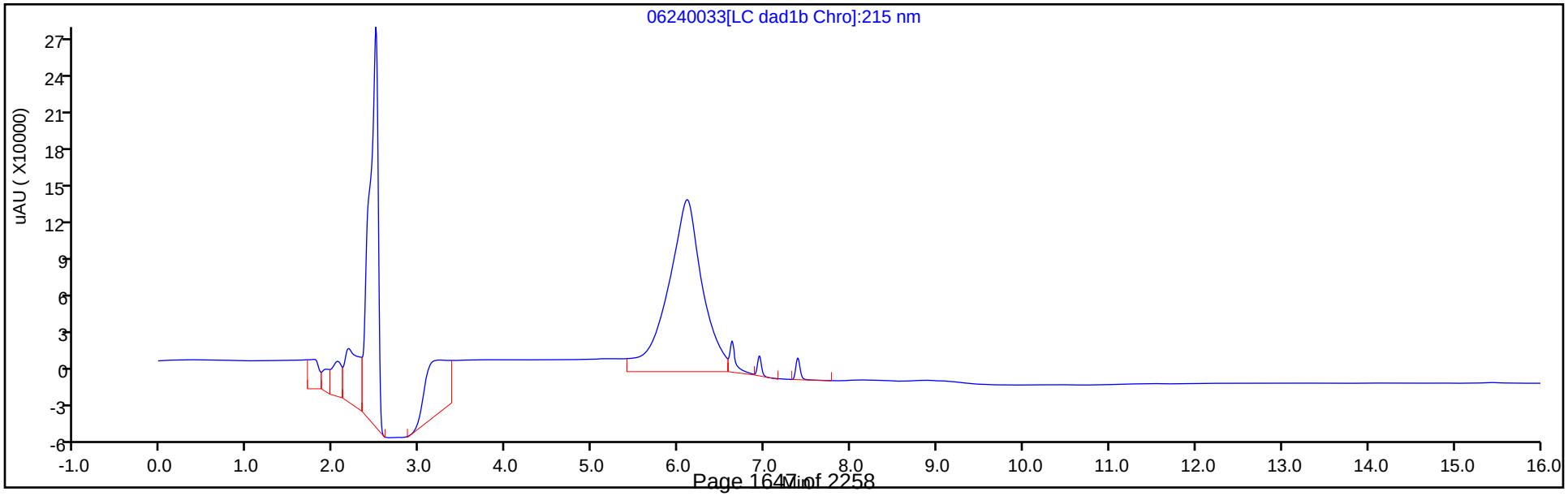
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240033.d

Injection Date:	25-Jun-2020 02:14:33	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	33
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



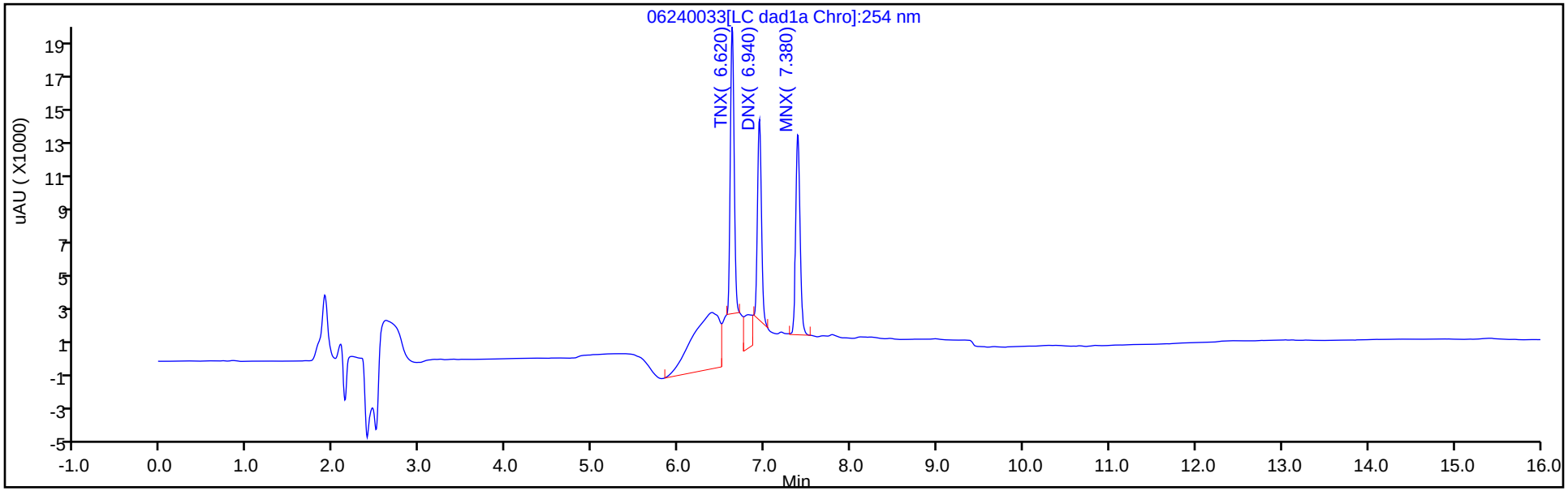
Report Date: 25-Jun-2020 21:10:04 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

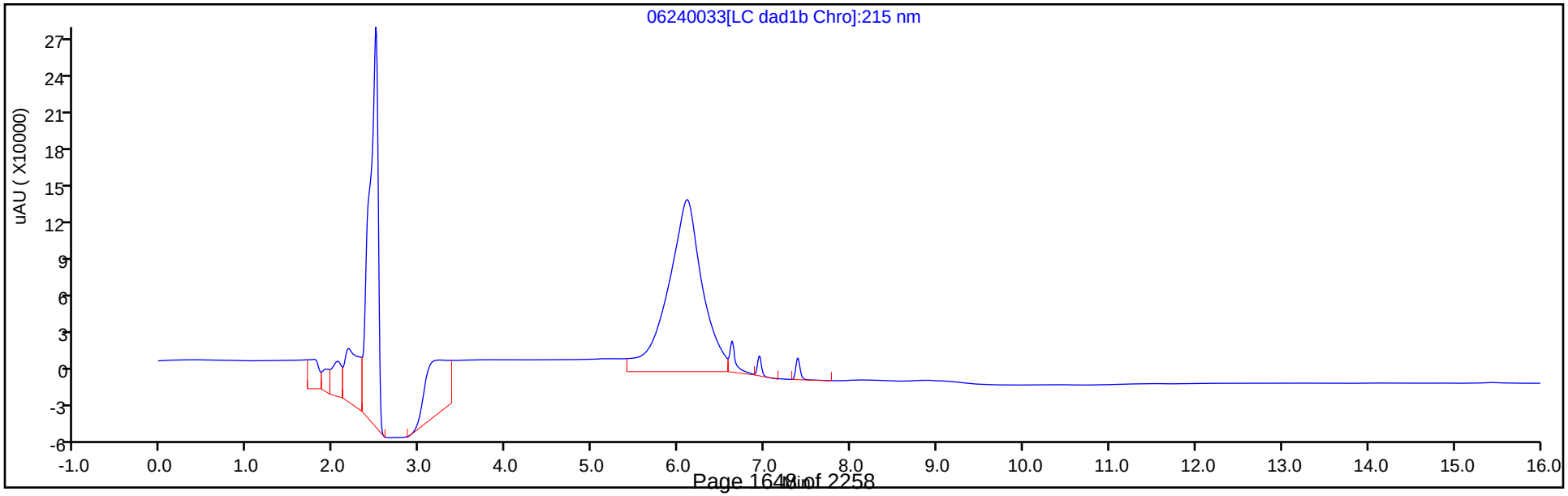
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240033.d

Injection Date:	25-Jun-2020 02:14:33	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	33
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

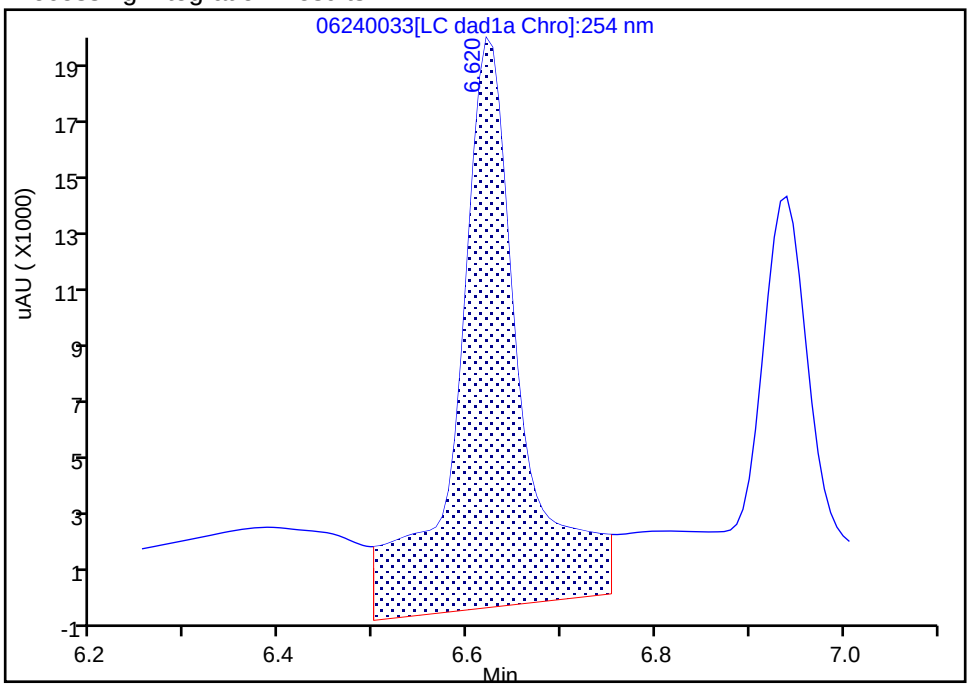
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240033.d				
Injection Date:	25-Jun-2020 02:14:33	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	33
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

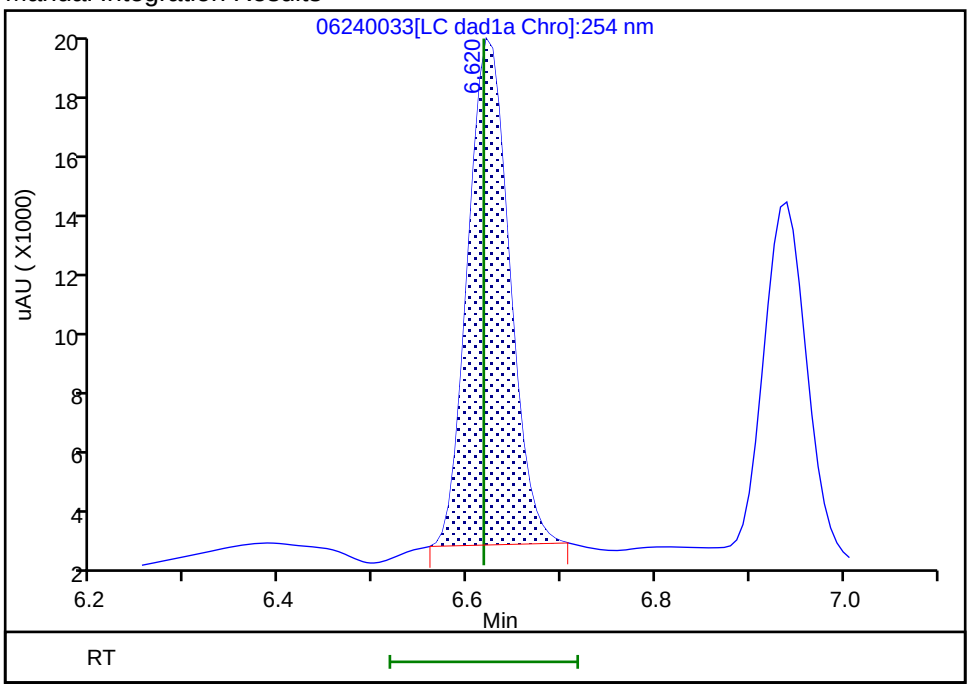
Processing Integration Results

RT: 6.62
Area: 88527
Amount: 0.406817
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 50379
Amount: 0.231512
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:10:55

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

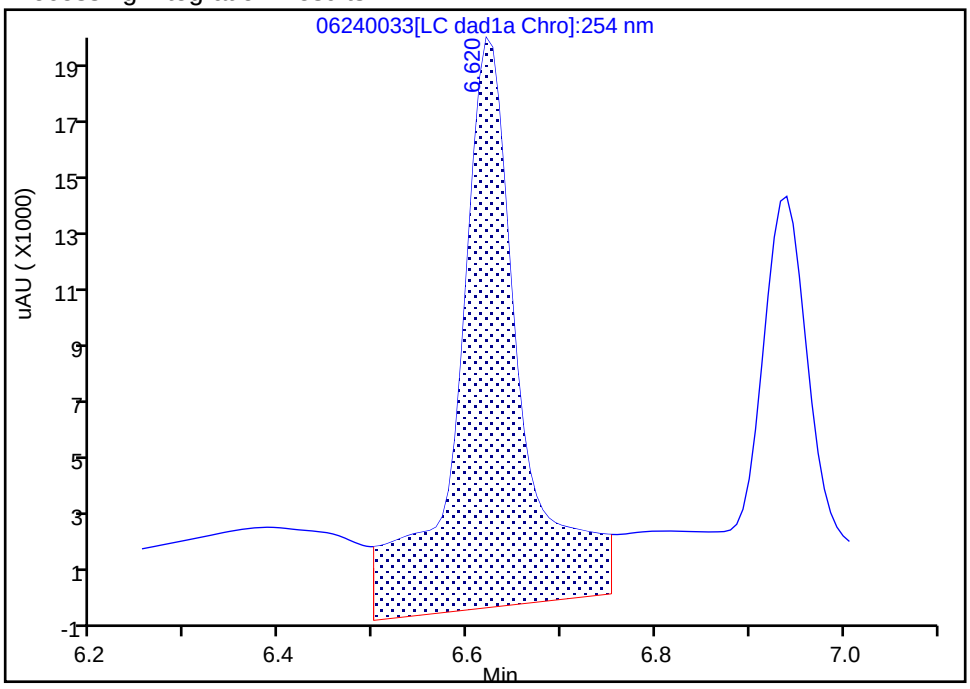
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240033.d				
Injection Date:	25-Jun-2020 02:14:33	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	33
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

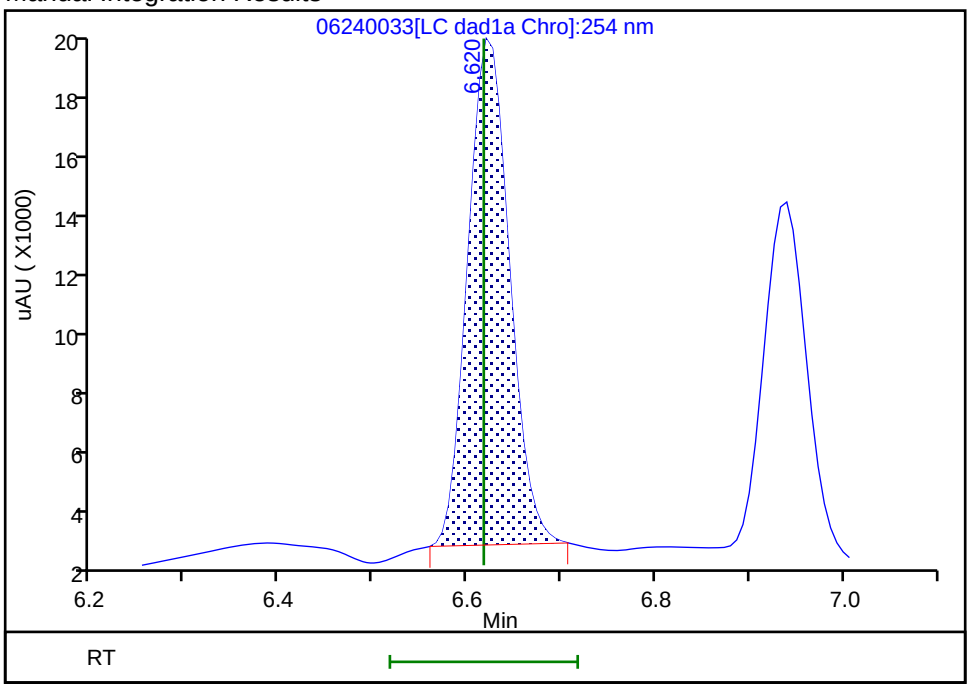
Processing Integration Results

RT: 6.62
Area: 88527
Amount: 0.406817
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 50379
Amount: 0.231512
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:10:55

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

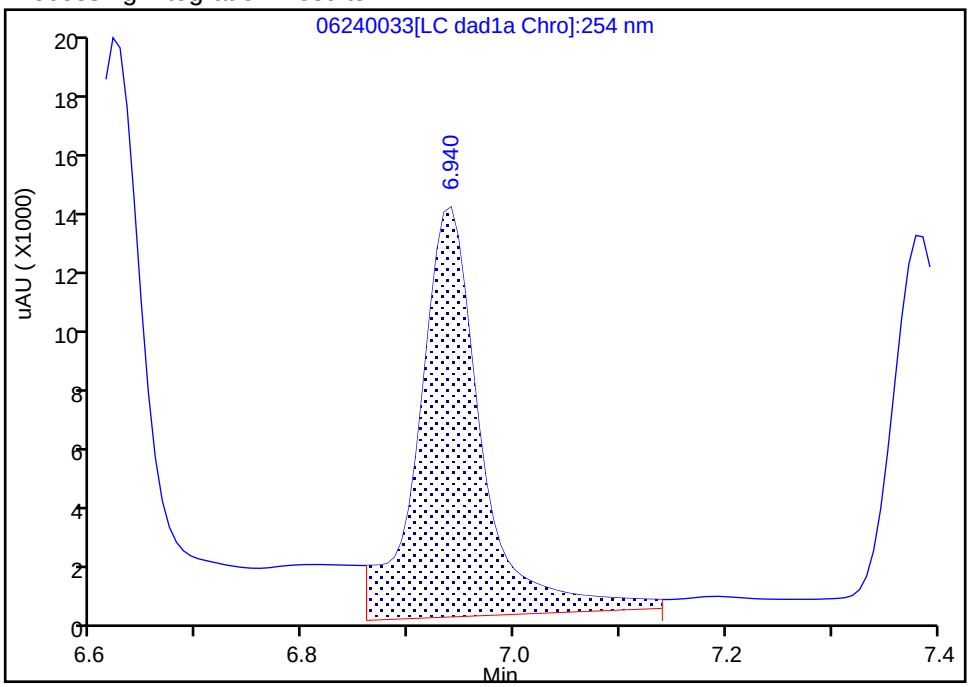
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240033.d				
Injection Date:	25-Jun-2020 02:14:33	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	33
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

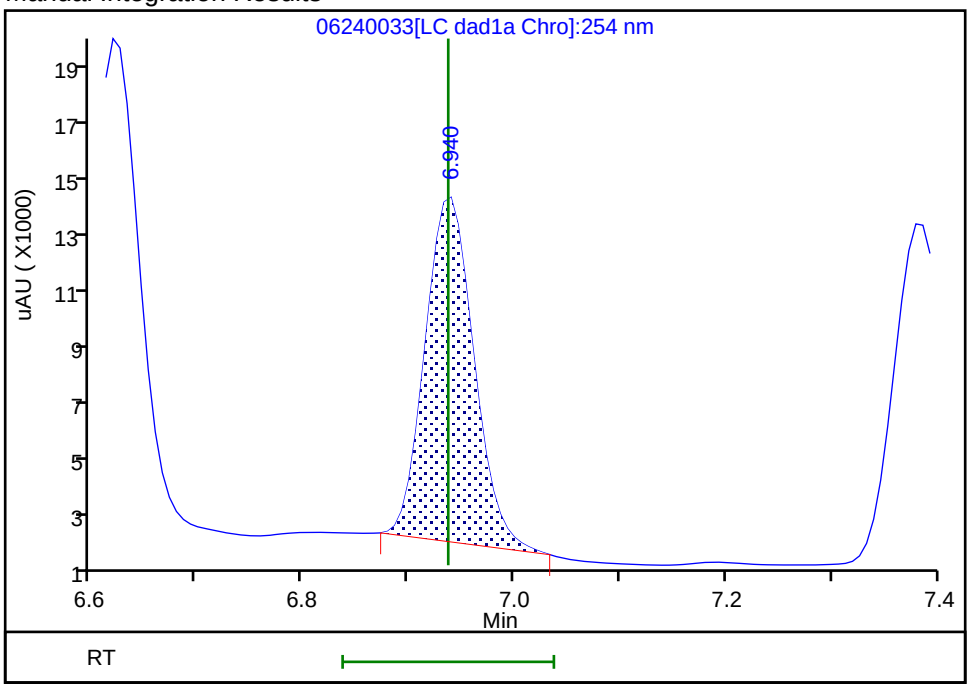
Processing Integration Results

RT: 6.94
Area: 52840
Amount: 0.345521
Amount Units: ug/mL



Manual Integration Results

RT: 6.94
Area: 36762
Amount: 0.240387
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:10:59

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

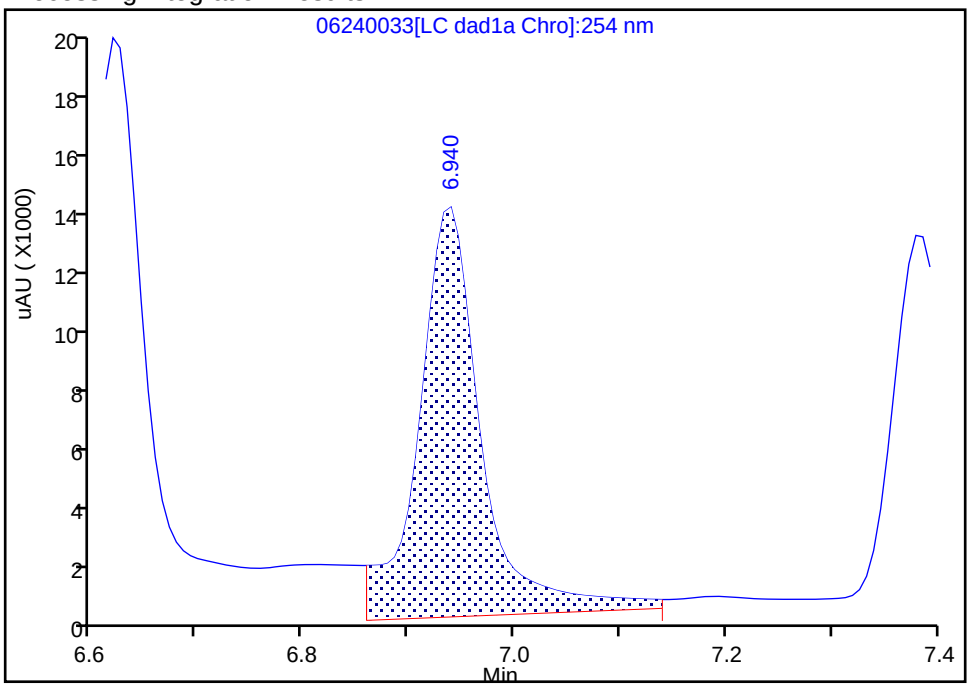
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240033.d				
Injection Date:	25-Jun-2020 02:14:33	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	33
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

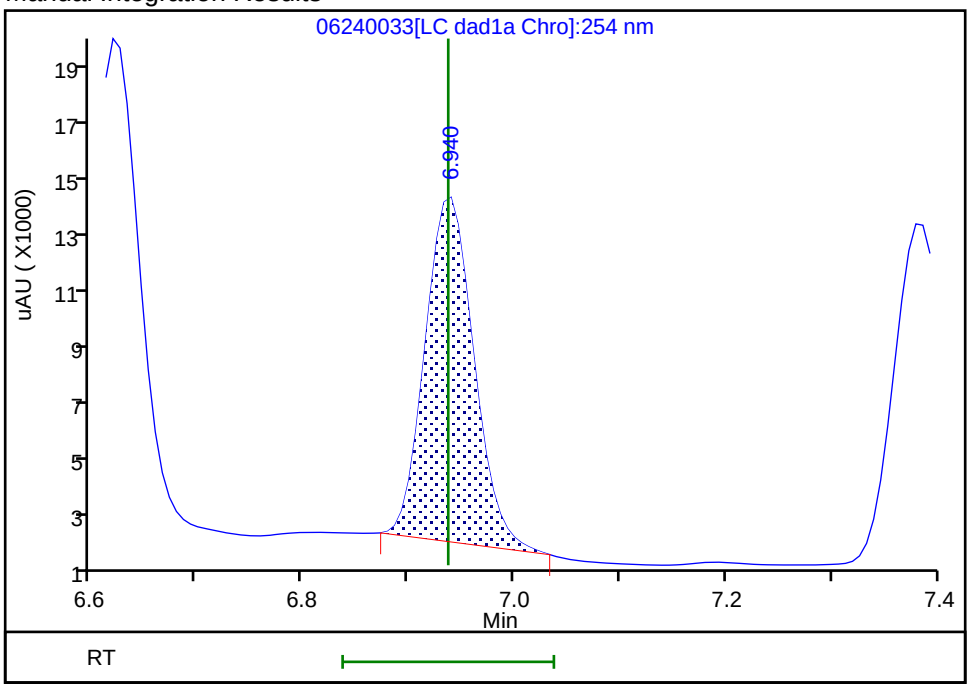
Processing Integration Results

RT: 6.94
Area: 52840
Amount: 0.345521
Amount Units: ug/mL



Manual Integration Results

RT: 6.94
Area: 36762
Amount: 0.240387
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:10:59

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499989/44 Calibration Date: 06/25/2020 06:27

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06240044.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	87416		254	250	1.7	15.0
RDX	Ave	116613	110932		238	250	-4.9	15.0
Picric acid	Ave	85131	85616		251	250	0.6	15.0
1,3,5-Trinitrobenzene	Ave	230309	241597		263	251	4.9	15.0
1,3-Dinitrobenzene	Ave	306686	323645		264	251	5.5	15.0
Nitrobenzene	Ave	200403	197096		247	251	-1.7	15.0
Tetryl	Ave	177032	191705		271	251	8.3	15.0
Nitroglycerin	Ave	68133	71605		2630	2500	5.1	15.0
2,4,6-Trinitrotoluene	Ave	204031	219920		271	251	7.8	15.0
4-Amino-2,6-dinitrotoluene	Lin2		168496		243	250	-2.9	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	215040		266	251	6.0	15.0
2,6-Dinitrotoluene	Ave	149452	159769		268	251	6.9	15.0
2,4-Dinitrotoluene	Ave	303584	317590		263	251	4.6	15.0
2-Nitrotoluene	Ave	135051	136212		252	250	0.9	15.0
4-Nitrotoluene	Ave	113005	118499		263	251	4.9	15.0
3-Nitrotoluene	Ave	143029	136236		238	250	-4.7	15.0
PETN	Ave	78605	85252		2710	2500	8.5	15.0
1,2-Dinitrobenzene	Ave	138212	145236		263	250	5.1	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499989/44 Calibration Date: 06/25/2020 06:27

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06240044.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.72	6.56	6.86
RDX	7.79	7.64	7.94
Picric acid	8.10	7.94	8.24
1,3,5-Trinitrobenzene	8.93	8.77	9.07
1,3-Dinitrobenzene	9.58	9.42	9.72
Nitrobenzene	9.96	9.80	10.10
Tetryl	10.26	10.10	10.40
Nitroglycerin	10.77	10.62	10.92
2,4,6-Trinitrotoluene	11.23	11.13	11.33
4-Amino-2,6-dinitrotoluene	11.40	11.29	11.49
2-Amino-4,6-dinitrotoluene	11.68	11.58	11.78
2,6-Dinitrotoluene	11.82	11.72	11.92
2,4-Dinitrotoluene	12.02	11.92	12.12
2-Nitrotoluene	12.84	12.70	13.00
4-Nitrotoluene	13.27	13.12	13.42
3-Nitrotoluene	13.86	13.72	14.02
PETN	14.92	14.81	15.11
1,2-Dinitrobenzene	8.75	8.59	8.89

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240044.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 25-Jun-2020 06:27:30 ALS Bottle#: 7 Worklist Smp#: 44
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0092716-044
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:09:52 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 15:55:01

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.718	6.712	0.006	21854	0.2500	0.2542	M
7 RDX	1	7.791	7.785	0.006	27733	0.2500	0.2378	
8 2,4,6-Trinitrophenol	1	8.098	8.085	0.013	21404	0.2500	0.2514	
$ 9 1,2-Dinitrobenzene	1	8.751	8.738	0.013	36309	0.2500	0.2627	
10 1,3,5-Trinitrobenzene	1	8.931	8.918	0.013	60520	0.2505	0.2628	
11 1,3-Dinitrobenzene	1	9.584	9.565	0.019	81073	0.2505	0.2644	
12 Nitrobenzene	1	9.958	9.945	0.013	49471	0.2510	0.2469	
14 Tetryl	1	10.264	10.252	0.012	48022	0.2505	0.2713	
15 Nitroglycerin	2	10.771	10.765	0.006	179013	2.50	2.63	
16 2,4,6-Trinitrotoluene	1	11.231	11.225	0.006	55200	0.2510	0.2705	
17 4-Amino-2,6-dinitrotoluene	1	11.398	11.385	0.013	42166	0.2503	0.2429	
18 2-Amino-4,6-dinitrotoluene	1	11.684	11.678	0.006	53975	0.2510	0.2661	
19 2,6-Dinitrotoluene	1	11.824	11.818	0.006	40102	0.2510	0.2683	
20 2,4-Dinitrotoluene	1	12.024	12.018	0.006	79715	0.2510	0.2626	
21 o-Nitrotoluene	1	12.838	12.845	-0.007	34053	0.2500	0.2521	
22 p-Nitrotoluene	1	13.271	13.272	-0.001	29684	0.2505	0.2627	
23 m-Nitrotoluene	1	13.858	13.865	-0.007	34093	0.2503	0.2384	
24 PETN	2	14.924	14.958	-0.034	213129	2.50	2.71	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00061 Amount Added: 25.00 Units: uL

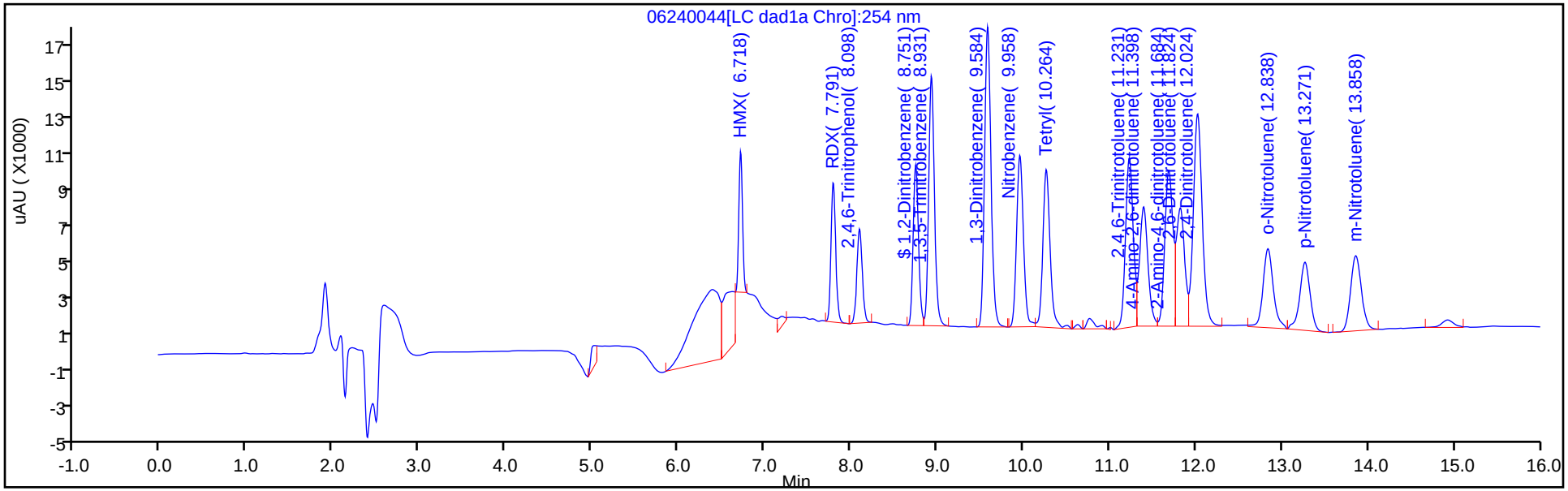
Report Date: 25-Jun-2020 21:09:52 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

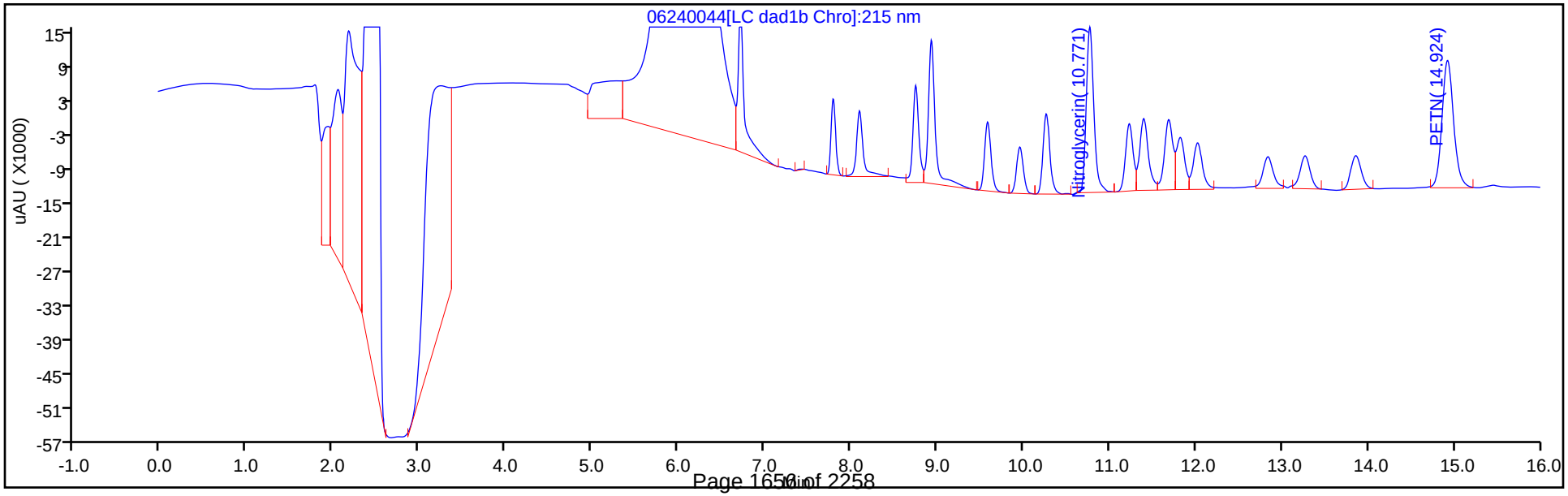
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240044.d

Injection Date:	25-Jun-2020 06:27:30	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	44
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

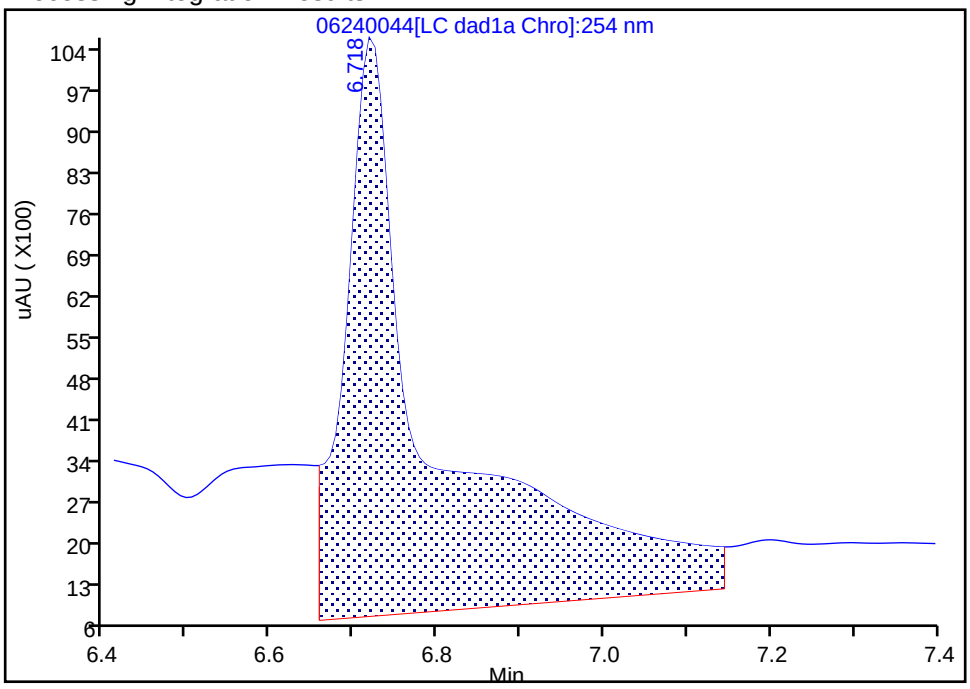
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240044.d				
Injection Date:	25-Jun-2020 06:27:30	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	44
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

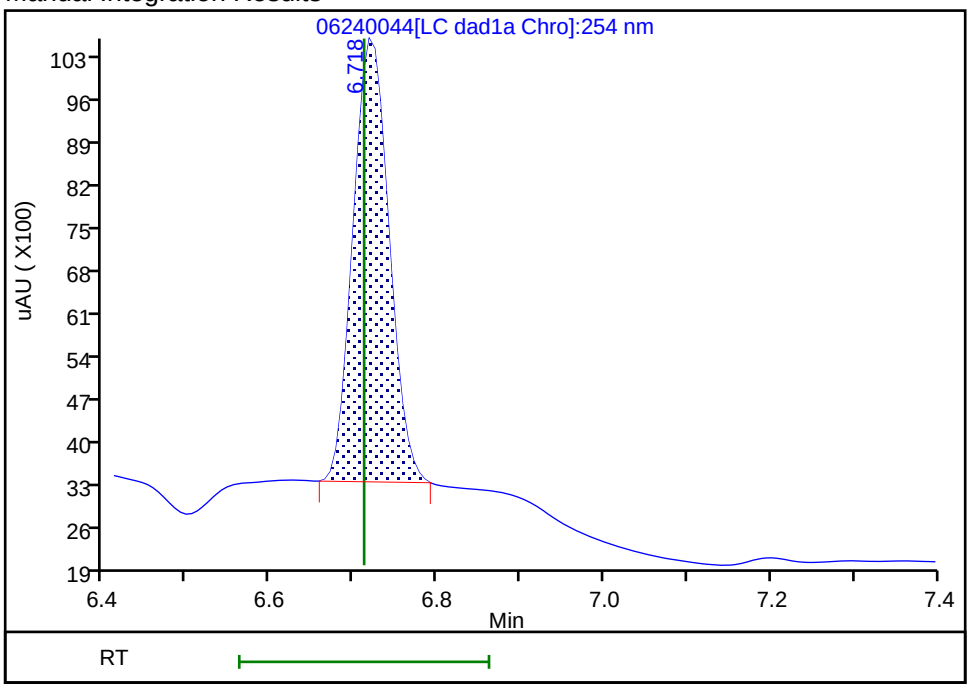
Processing Integration Results

RT: 6.72
Area: 75074
Amount: 0.873338
Amount Units: ug/mL



Manual Integration Results

RT: 6.72
Area: 21854
Amount: 0.254228
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 15:54:57
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499989/45 Calibration Date: 06/25/2020 06:50

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06240045.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	199409		229	250	-8.4	15.0
DNX	Ave	152928	146829		240	250	-4.0	15.0
MNX	Ave	158544	140233		258	292	-11.5	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499989/45 Calibration Date: 06/25/2020 06:50

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06240045.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.63	6.52	6.72
DNX	6.94	6.84	7.04
MNX	7.39	7.23	7.53

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240045.D
Lims ID: CCV DMT
Client ID:
Sample Type: CCV
Inject. Date: 25-Jun-2020 06:50:38 ALS Bottle#: 9 Worklist Smp#: 45
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV DMT
Misc. Info.: 280-0092716-045
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub17

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:09:52 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:14:23

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.627	6.617	0.010	49902	0.2503	0.2293	M
5 DNX	1	6.940	6.937	0.003	36744	0.2503	0.2403	M
6 MNX	1	7.387	7.384	0.003	40913	0.2918	0.2581	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00006 Amount Added: 12.50 Units: uL

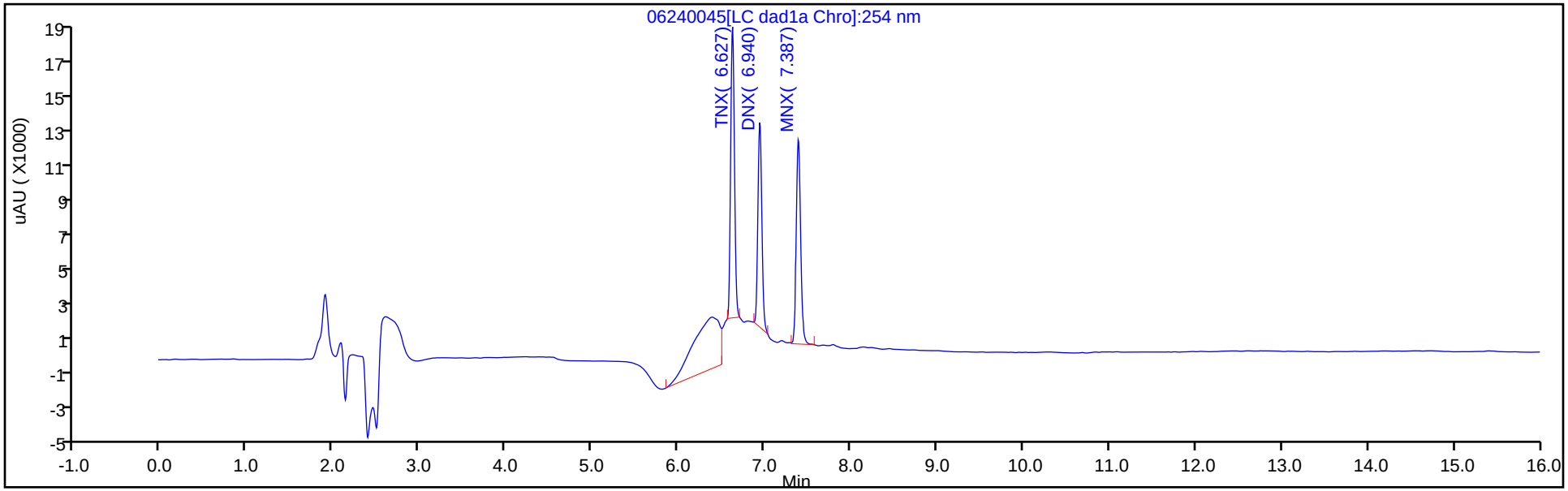
Report Date: 25-Jun-2020 21:09:52 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

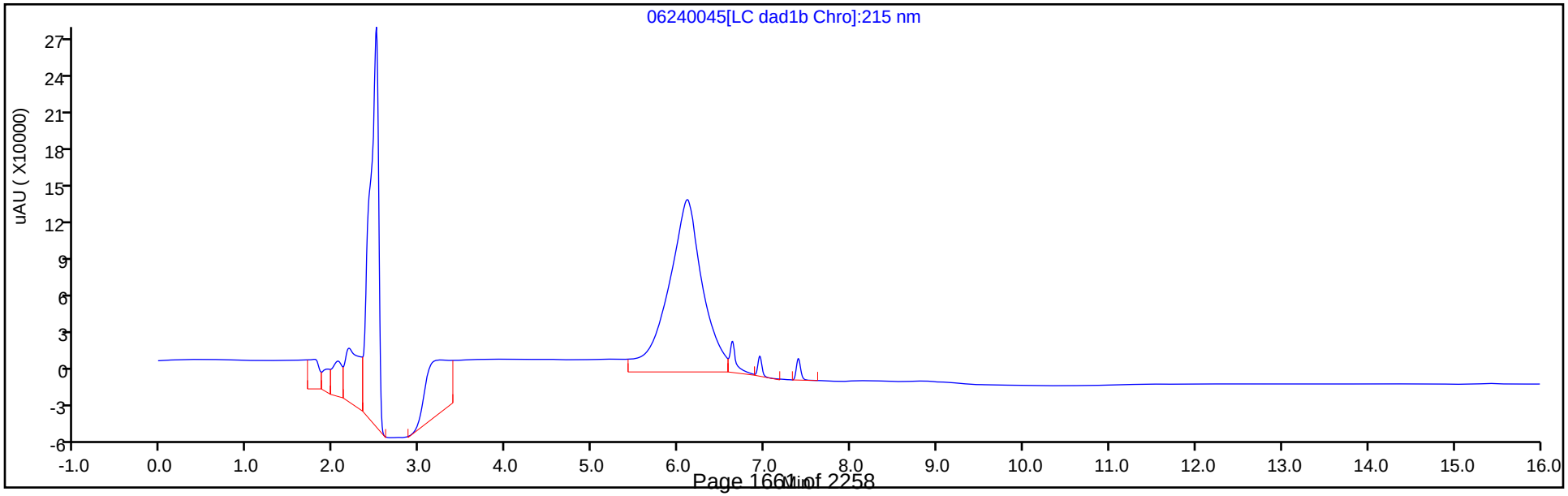
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240045.d

Injection Date:	25-Jun-2020 06:50:38	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	45
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

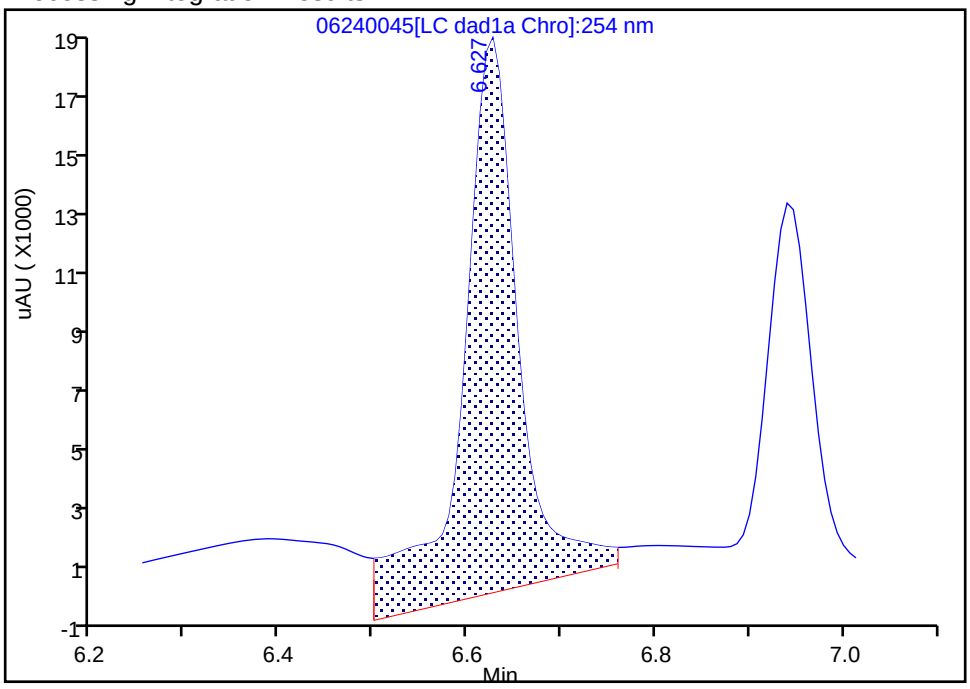
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240045.d				
Injection Date:	25-Jun-2020 06:50:38	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	45
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

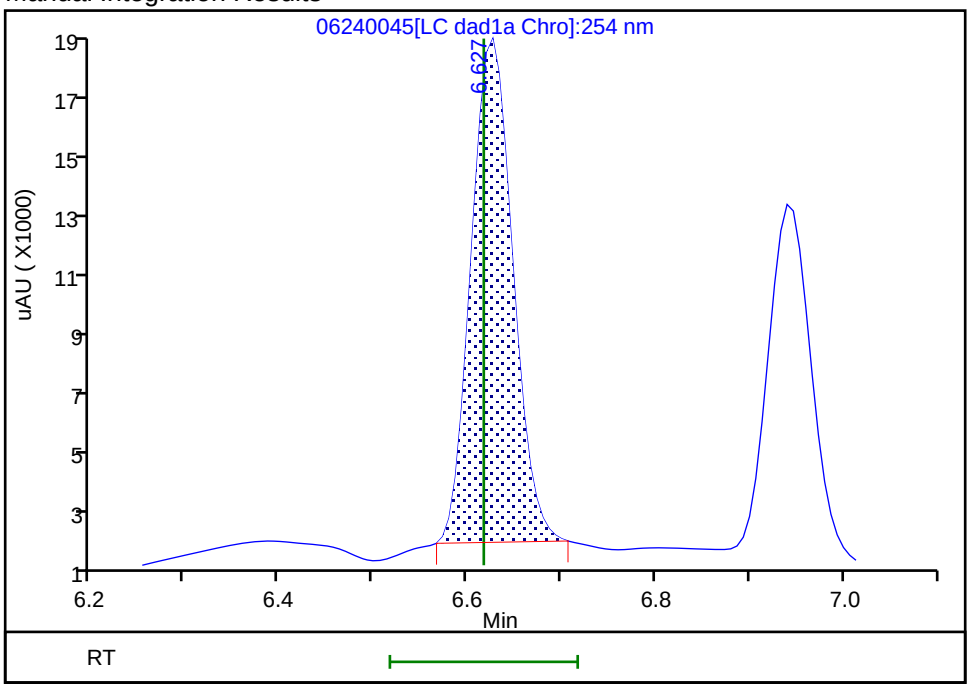
Processing Integration Results

RT: 6.63
Area: 74450
Amount: 0.342128
Amount Units: ug/mL



Manual Integration Results

RT: 6.63
Area: 49902
Amount: 0.229320
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:14:16

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

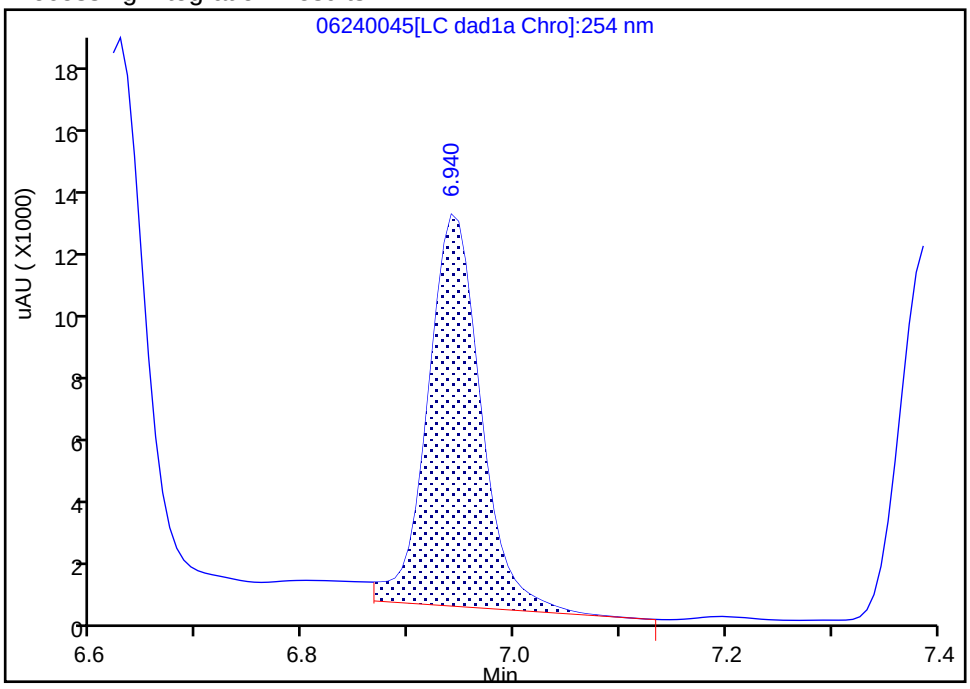
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240045.d				
Injection Date:	25-Jun-2020 06:50:38	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	45
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

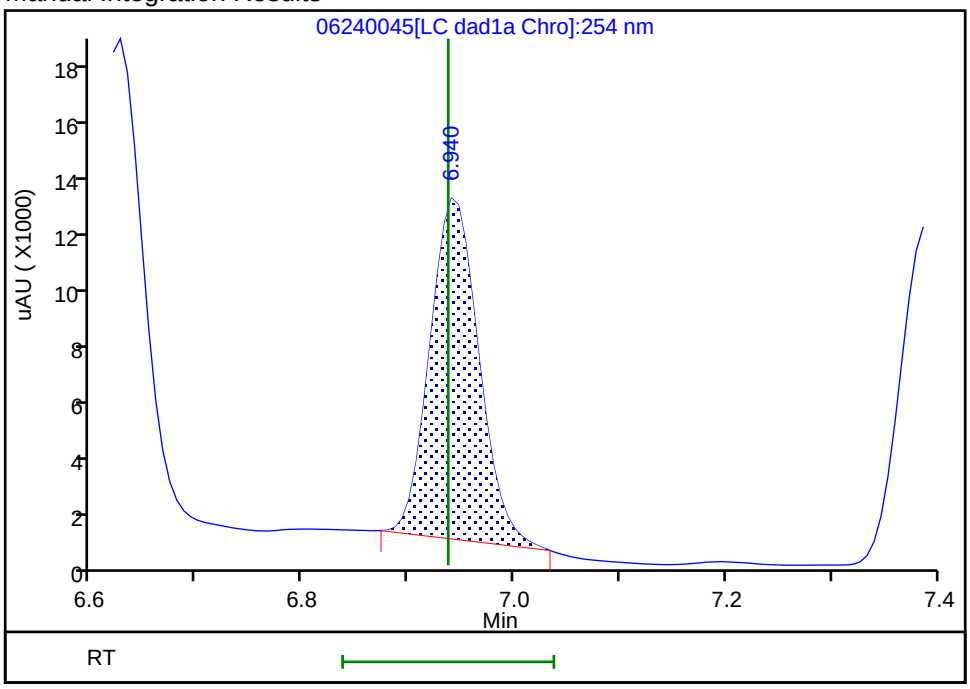
Processing Integration Results

RT: 6.94
Area: 41299
Amount: 0.270055
Amount Units: ug/mL



Manual Integration Results

RT: 6.94
Area: 36744
Amount: 0.240269
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:14:20

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499989/56 Calibration Date: 06/25/2020 11:03

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06240056.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	88476		257	250	2.9	15.0
RDX	Ave	116613	110144		236	250	-5.5	15.0
Picric acid	Ave	85131	85116		250	250	-0.0	15.0
1,3,5-Trinitrobenzene	Ave	230309	241110		262	251	4.7	15.0
1,3-Dinitrobenzene	Ave	306686	321533		263	251	4.8	15.0
Nitrobenzene	Ave	200403	191179		239	251	-4.6	15.0
Tetryl	Ave	177032	185517		263	251	4.8	15.0
Nitroglycerin	Ave	68133	71033		2610	2500	4.3	15.0
2,4,6-Trinitrotoluene	Ave	204031	215936		266	251	5.8	15.0
4-Amino-2,6-dinitrotoluene	Lin2		169223		244	250	-2.5	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	211992		262	251	4.5	15.0
2,6-Dinitrotoluene	Ave	149452	157510		265	251	5.4	15.0
2,4-Dinitrotoluene	Ave	303584	314418		260	251	3.6	15.0
2-Nitrotoluene	Ave	135051	121428		225	250	-10.1	15.0
4-Nitrotoluene	Ave	113005	110168		244	251	-2.5	15.0
3-Nitrotoluene	Ave	143029	132667		232	250	-7.2	15.0
PETN	Ave	78605	82864		2640	2500	5.4	15.0
1,2-Dinitrobenzene	Ave	138212	145228		263	250	5.1	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499989/56 Calibration Date: 06/25/2020 11:03

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06240056.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.71	6.56	6.86
RDX	7.78	7.64	7.94
Picric acid	8.08	7.94	8.24
1,3,5-Trinitrobenzene	8.92	8.77	9.07
1,3-Dinitrobenzene	9.56	9.42	9.72
Nitrobenzene	9.93	9.80	10.10
Tetryl	10.23	10.10	10.40
Nitroglycerin	10.74	10.62	10.92
2,4,6-Trinitrotoluene	11.20	11.13	11.33
4-Amino-2,6-dinitrotoluene	11.35	11.29	11.49
2-Amino-4,6-dinitrotoluene	11.64	11.58	11.78
2,6-Dinitrotoluene	11.78	11.72	11.92
2,4-Dinitrotoluene	11.98	11.92	12.12
2-Nitrotoluene	12.79	12.70	13.00
4-Nitrotoluene	13.22	13.12	13.42
3-Nitrotoluene	13.79	13.72	14.02
PETN	14.83	14.81	15.11
1,2-Dinitrobenzene	8.73	8.59	8.89

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240056.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 25-Jun-2020 11:03:48 ALS Bottle#: 7 Worklist Smp#: 56
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0092716-056
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:09:57 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 15:54:51

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.711	6.712	-0.001	22119	0.2500	0.2573	M
7 RDX	1	7.778	7.785	-0.007	27536	0.2500	0.2361	
8 2,4,6-Trinitrophenol	1	8.084	8.085	-0.001	21279	0.2500	0.2500	
$ 9 1,2-Dinitrobenzene	1	8.731	8.738	-0.007	36307	0.2500	0.2627	
10 1,3,5-Trinitrobenzene	1	8.918	8.918	0.000	60398	0.2505	0.2622	
11 1,3-Dinitrobenzene	1	9.558	9.565	-0.007	80544	0.2505	0.2626	
12 Nitrobenzene	1	9.931	9.945	-0.014	47986	0.2510	0.2394	
14 Tetryl	1	10.231	10.252	-0.021	46472	0.2505	0.2625	
15 Nitroglycerin	2	10.738	10.765	-0.027	177583	2.50	2.61	
16 2,4,6-Trinitrotoluene	1	11.198	11.225	-0.027	54200	0.2510	0.2656	
17 4-Amino-2,6-dinitrotoluene	1	11.351	11.385	-0.034	42348	0.2503	0.2439	
18 2-Amino-4,6-dinitrotoluene	1	11.638	11.678	-0.040	53210	0.2510	0.2624	
19 2,6-Dinitrotoluene	1	11.778	11.818	-0.040	39535	0.2510	0.2645	
20 2,4-Dinitrotoluene	1	11.978	12.018	-0.040	78919	0.2510	0.2600	
21 o-Nitrotoluene	1	12.791	12.845	-0.054	30357	0.2500	0.2248	
22 p-Nitrotoluene	1	13.218	13.272	-0.054	27597	0.2505	0.2442	
23 m-Nitrotoluene	1	13.791	13.865	-0.074	33200	0.2503	0.2321	
24 PETN	2	14.831	14.958	-0.127	207160	2.50	2.64	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00061 Amount Added: 25.00 Units: uL

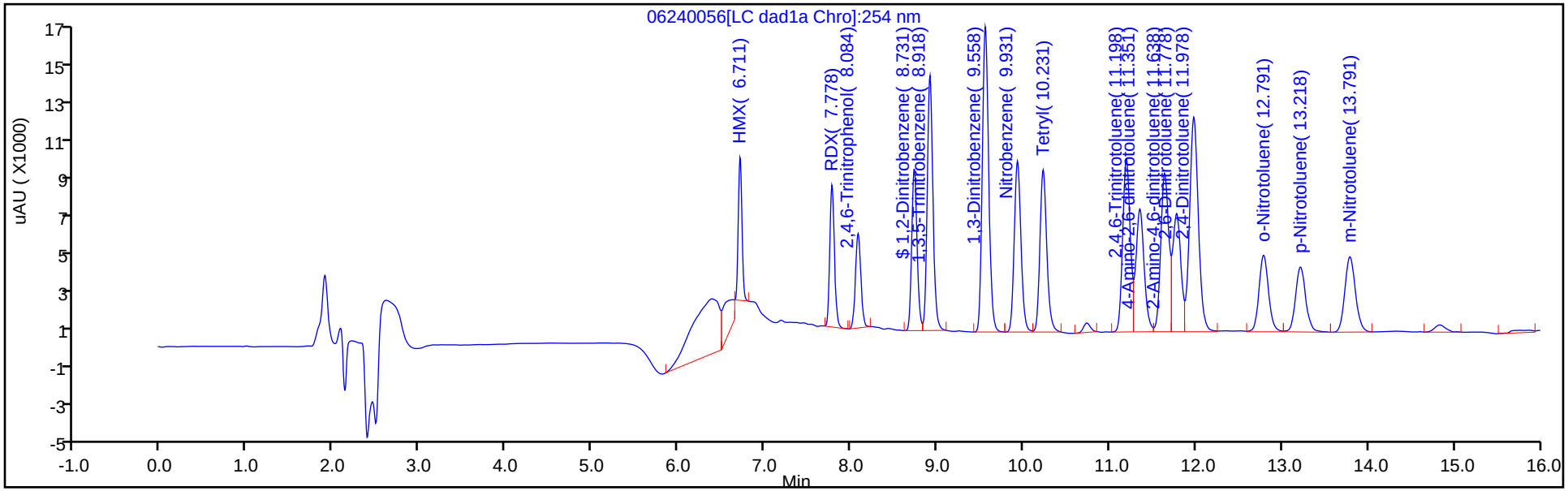
Report Date: 25-Jun-2020 21:09:57 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

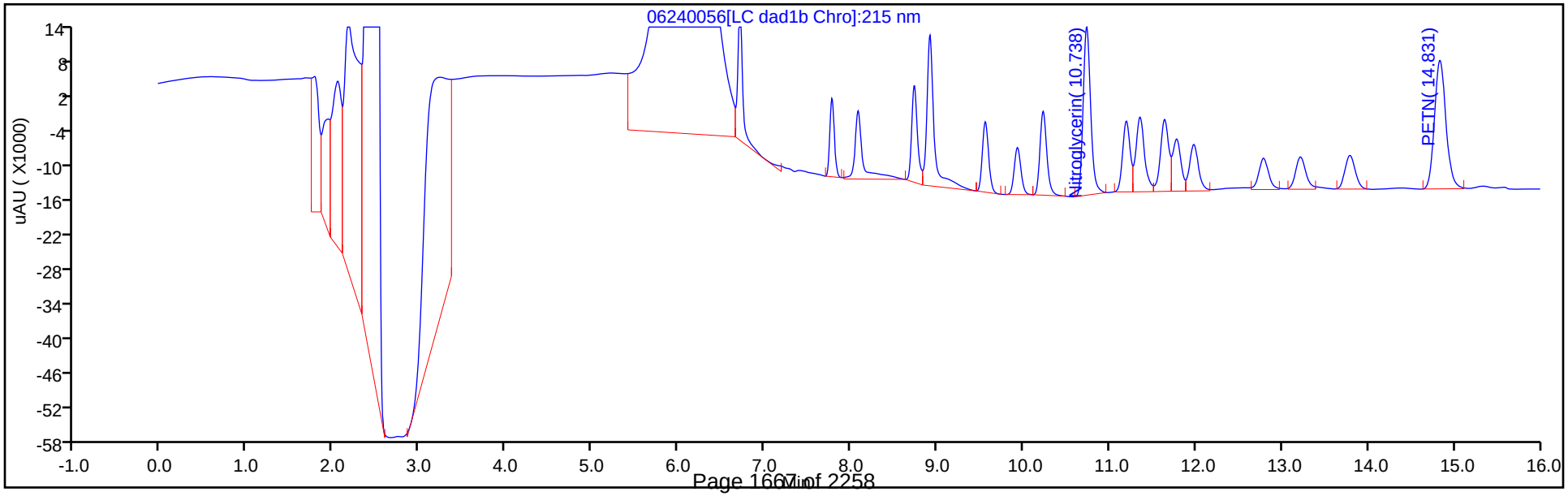
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240056.d

Injection Date:	25-Jun-2020 11:03:48	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	56
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

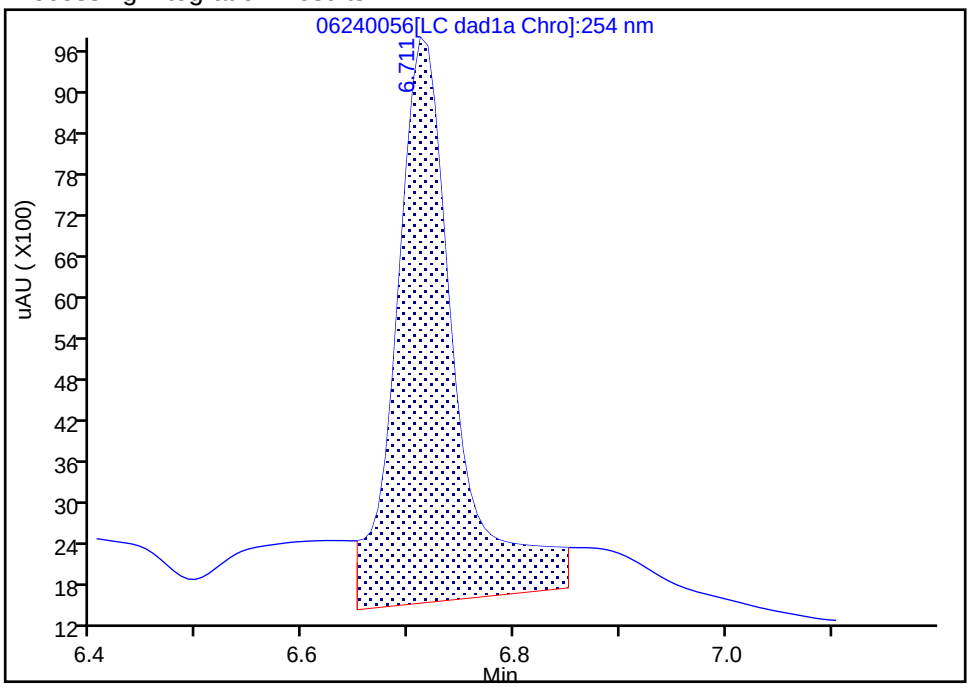
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240056.d				
Injection Date:	25-Jun-2020 11:03:48	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	56
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

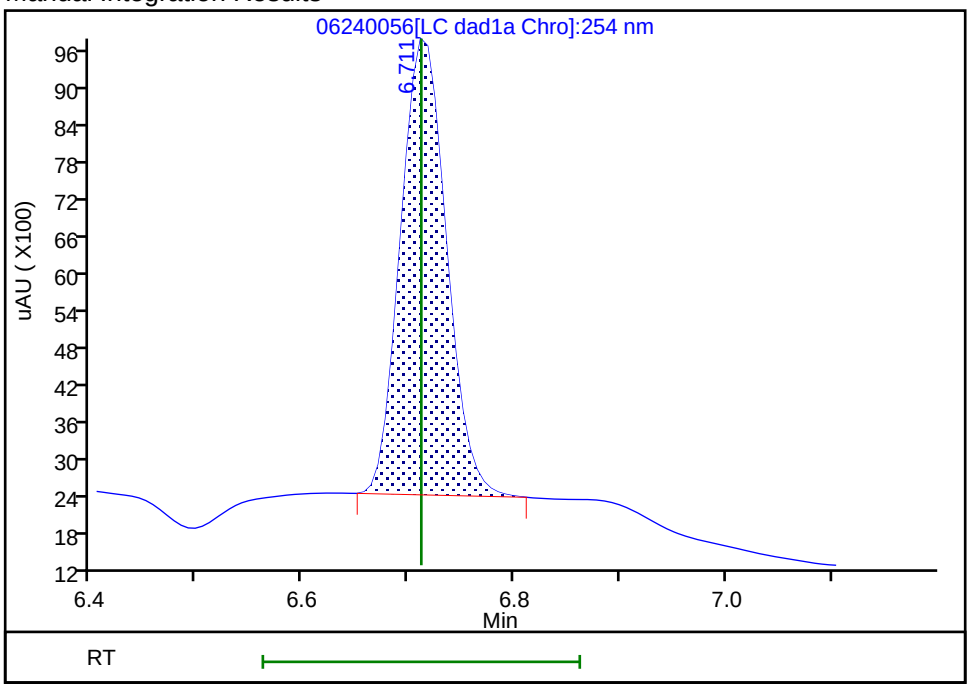
Processing Integration Results

RT: 6.71
Area: 31713
Amount: 0.368918
Amount Units: ug/mL



Manual Integration Results

RT: 6.71
Area: 22119
Amount: 0.257311
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 15:54:46

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499989/57 Calibration Date: 06/25/2020 11:26

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06240057.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	195996		225	250	-9.9	15.0
DNX	Ave	152928	150274		246	250	-1.7	15.0
MNX	Ave	158544	139188		256	292	-12.2	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-499989/57 Calibration Date: 06/25/2020 11:26

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06240057.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.62	6.52	6.72
DNX	6.93	6.84	7.04
MNX	7.38	7.23	7.53

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240057.D
Lims ID: CCV DMT
Client ID:
Sample Type: CCV
Inject. Date: 25-Jun-2020 11:26:49 ALS Bottle#: 9 Worklist Smp#: 57
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV DMT
Misc. Info.: 280-0092716-057
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub17

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:09:57 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:19:49

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.619	6.617	0.002	49048	0.2503	0.2254	M
5 DNX	1	6.933	6.937	-0.004	37606	0.2503	0.2459	M
6 MNX	1	7.379	7.384	-0.005	40608	0.2918	0.2561	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00006 Amount Added: 12.50 Units: uL

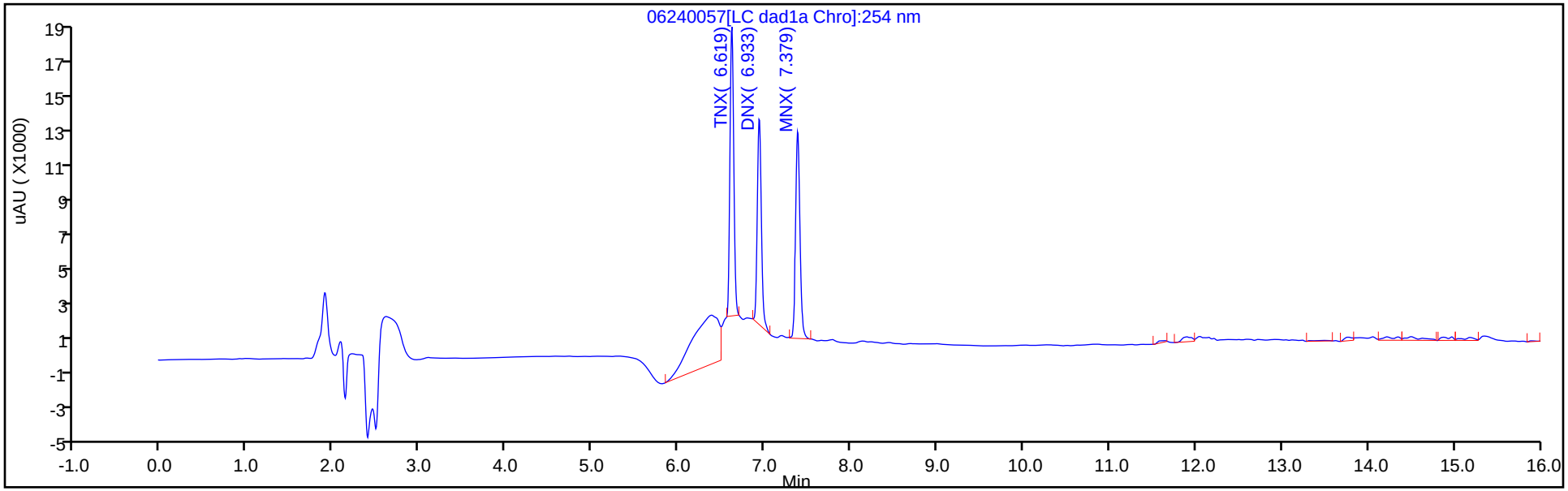
Report Date: 25-Jun-2020 21:09:58 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

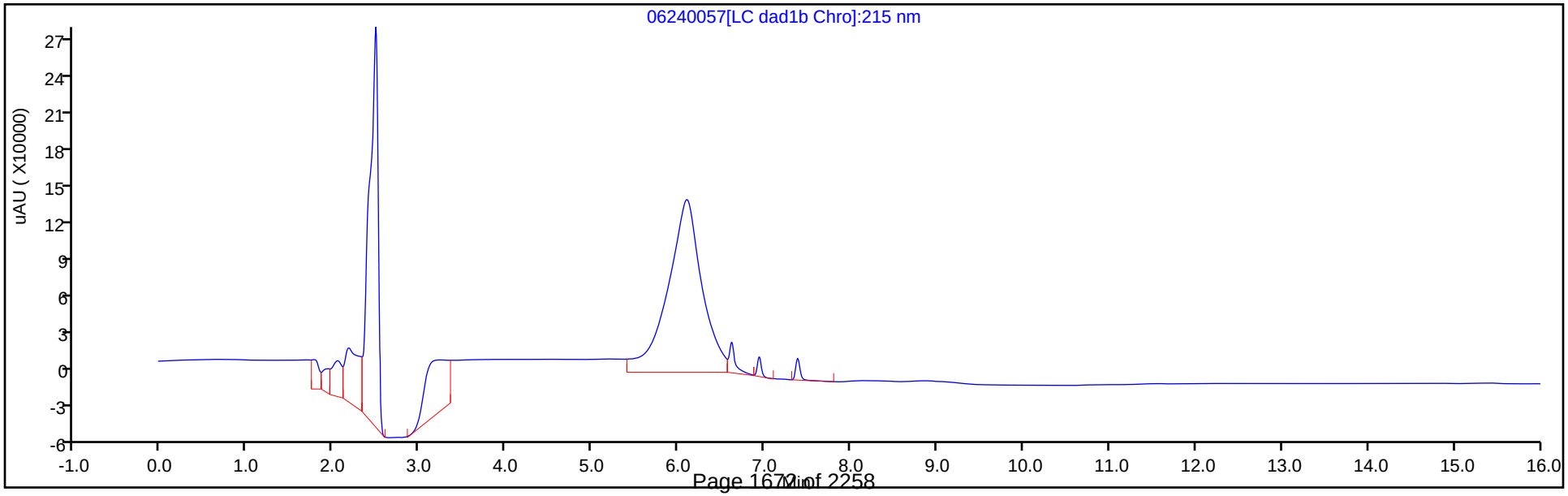
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240057.d

Injection Date:	25-Jun-2020 11:26:49	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	57
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

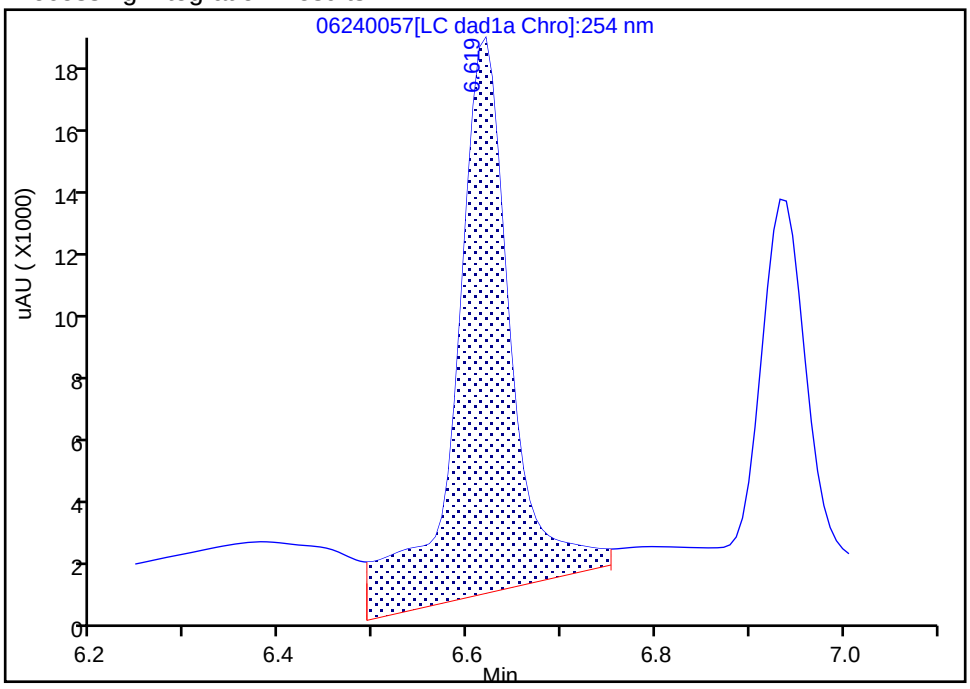
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240057.d				
Injection Date:	25-Jun-2020 11:26:49	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	57
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

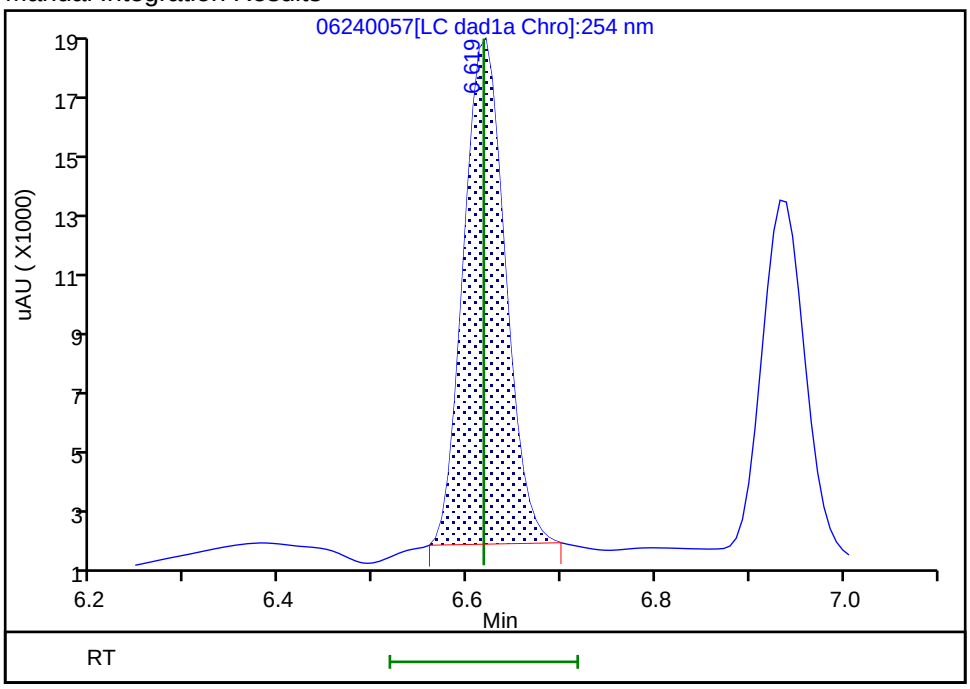
Processing Integration Results

RT: 6.62
Area: 71941
Amount: 0.330598
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 49048
Amount: 0.225395
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:19:42

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

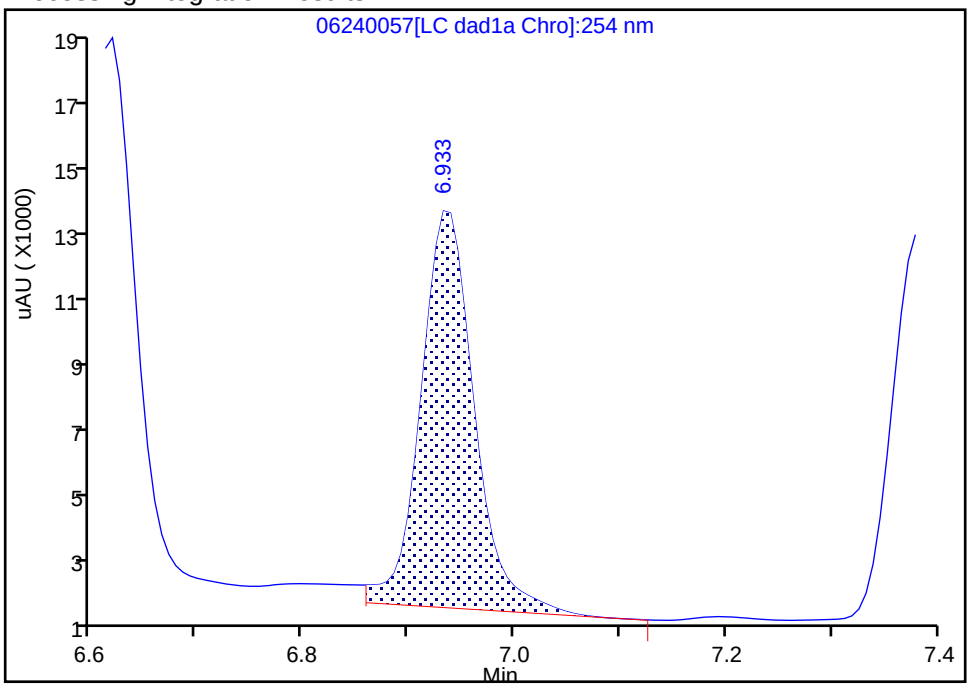
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240057.d				
Injection Date:	25-Jun-2020 11:26:49	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	57
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

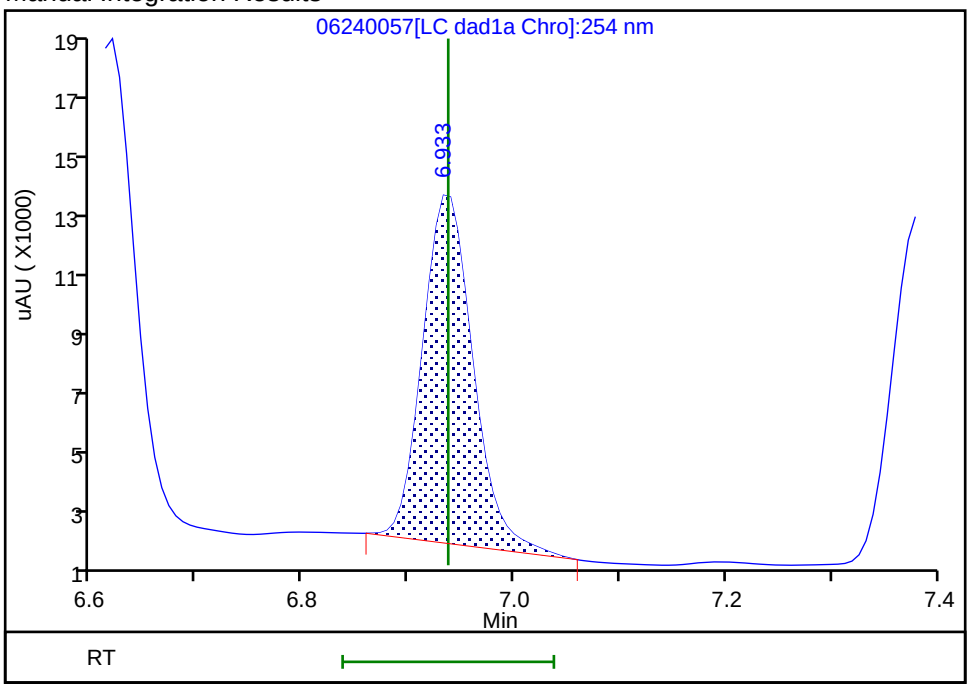
Processing Integration Results

RT: 6.93
Area: 41074
Amount: 0.268583
Amount Units: ug/mL



Manual Integration Results

RT: 6.93
Area: 37606
Amount: 0.245906
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:19:46

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500316/7 Calibration Date: 06/26/2020 17:12

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06260007.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	88068		256	250	2.4	15.0
RDX	Ave	116613	109372		234	250	-6.2	15.0
Picric acid	Ave	85131	86032		253	250	1.1	15.0
1,3,5-Trinitrobenzene	Ave	230309	239729		261	251	4.1	15.0
1,3-Dinitrobenzene	Ave	306686	321134		262	251	4.7	15.0
Nitrobenzene	Ave	200403	206717		259	251	3.2	15.0
Tetryl	Ave	177032	179469		254	251	1.4	15.0
Nitroglycerin	Ave	68133	72443		2660	2500	6.3	15.0
2,4,6-Trinitrotoluene	Ave	204031	216781		267	251	6.2	15.0
4-Amino-2,6-dinitrotoluene	Lin2		165135		238	250	-4.8	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	209454		259	251	3.3	15.0
2,6-Dinitrotoluene	Ave	149452	159633		268	251	6.8	15.0
2,4-Dinitrotoluene	Ave	303584	316319		262	251	4.2	15.0
2-Nitrotoluene	Ave	135051	138392		256	250	2.5	15.0
4-Nitrotoluene	Ave	113005	117138		260	251	3.7	15.0
3-Nitrotoluene	Ave	143029	148260		259	250	3.7	15.0
PETN	Ave	78605	85539		2720	2500	8.8	15.0
1,2-Dinitrobenzene	Ave	138212	144648		262	250	4.7	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500316/7 Calibration Date: 06/26/2020 17:12

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06260007.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.71	6.56	6.86
RDX	7.79	7.64	7.94
Picric acid	8.10	7.95	8.25
1,3,5-Trinitrobenzene	8.93	8.78	9.08
1,3-Dinitrobenzene	9.58	9.43	9.73
Nitrobenzene	9.96	9.81	10.11
Tetryl	10.28	10.13	10.43
Nitroglycerin	10.79	10.64	10.94
2,4,6-Trinitrotoluene	11.25	11.15	11.35
4-Amino-2,6-dinitrotoluene	11.42	11.32	11.52
2-Amino-4,6-dinitrotoluene	11.72	11.62	11.82
2,6-Dinitrotoluene	11.85	11.75	11.95
2,4-Dinitrotoluene	12.05	11.95	12.15
2-Nitrotoluene	12.87	12.72	13.02
4-Nitrotoluene	13.31	13.16	13.46
3-Nitrotoluene	13.90	13.75	14.05
PETN	15.00	14.85	15.15
1,2-Dinitrobenzene	8.76	8.61	8.91

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\06260007.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 26-Jun-2020 17:12:19 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0092794-007
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 13:26:11 Calib Date: 26-Jun-2020 01:16:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 26-Jun-2020 17:46:49

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.710	6.710	0.000	22017	0.2500	0.2561	M
7 RDX	1	7.790	7.790	0.000	27343	0.2500	0.2345	
8 2,4,6-Trinitrophenol	1	8.096	8.096	0.000	21508	0.2500	0.2526	
$ 9 1,2-Dinitrobenzene	1	8.756	8.756	0.000	36162	0.2500	0.2616	
10 1,3,5-Trinitrobenzene	1	8.930	8.930	0.000	60052	0.2505	0.2607	
11 1,3-Dinitrobenzene	1	9.583	9.583	0.000	80444	0.2505	0.2623	
12 Nitrobenzene	1	9.963	9.963	0.000	51886	0.2510	0.2589	
14 Tetryl	1	10.283	10.283	0.000	44957	0.2505	0.2539	
15 Nitroglycerin	2	10.790	10.790	0.000	181107	2.50	2.66	
16 2,4,6-Trinitrotoluene	1	11.250	11.250	0.000	54412	0.2510	0.2667	
17 4-Amino-2,6-dinitrotoluene	1	11.423	11.423	0.000	41325	0.2503	0.2382	
18 2-Amino-4,6-dinitrotoluene	1	11.716	11.716	0.000	52573	0.2510	0.2592	
19 2,6-Dinitrotoluene	1	11.850	11.850	0.000	40068	0.2510	0.2681	
20 2,4-Dinitrotoluene	1	12.050	12.050	0.000	79396	0.2510	0.2615	
21 o-Nitrotoluene	1	12.870	12.870	0.000	34598	0.2500	0.2562	
22 p-Nitrotoluene	1	13.310	13.310	0.000	29343	0.2505	0.2597	
23 m-Nitrotoluene	1	13.896	13.896	0.000	37102	0.2503	0.2594	
24 PETN	2	14.996	14.996	0.000	213847	2.50	2.72	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00061 Amount Added: 25.00 Units: uL

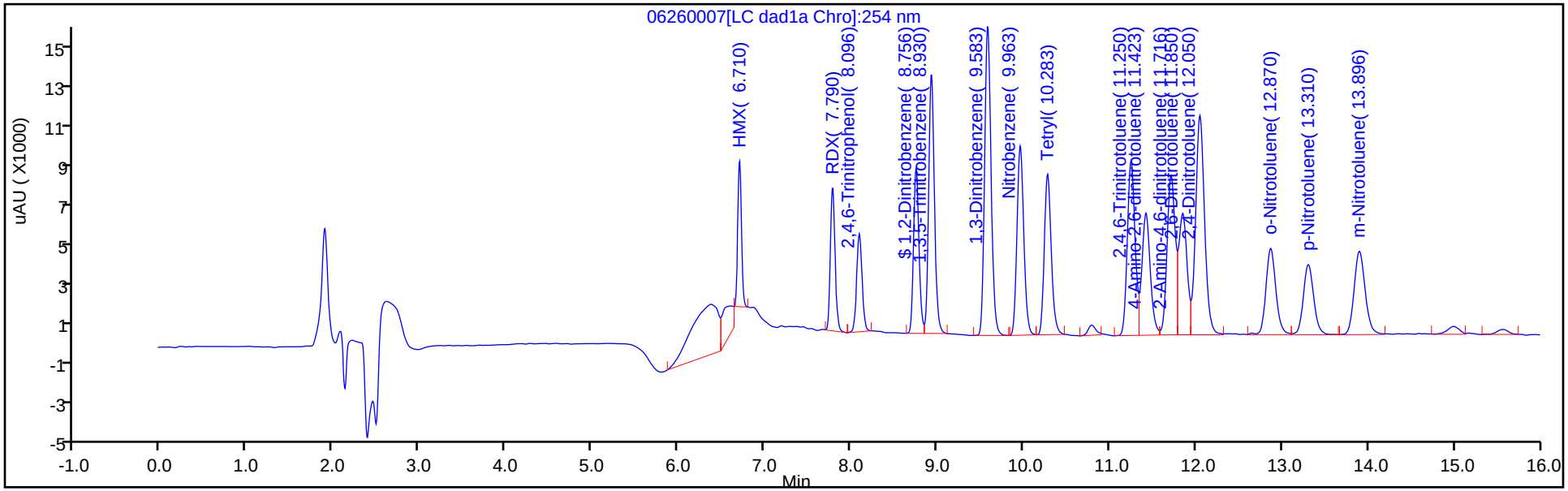
Report Date: 27-Jun-2020 13:26:11 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

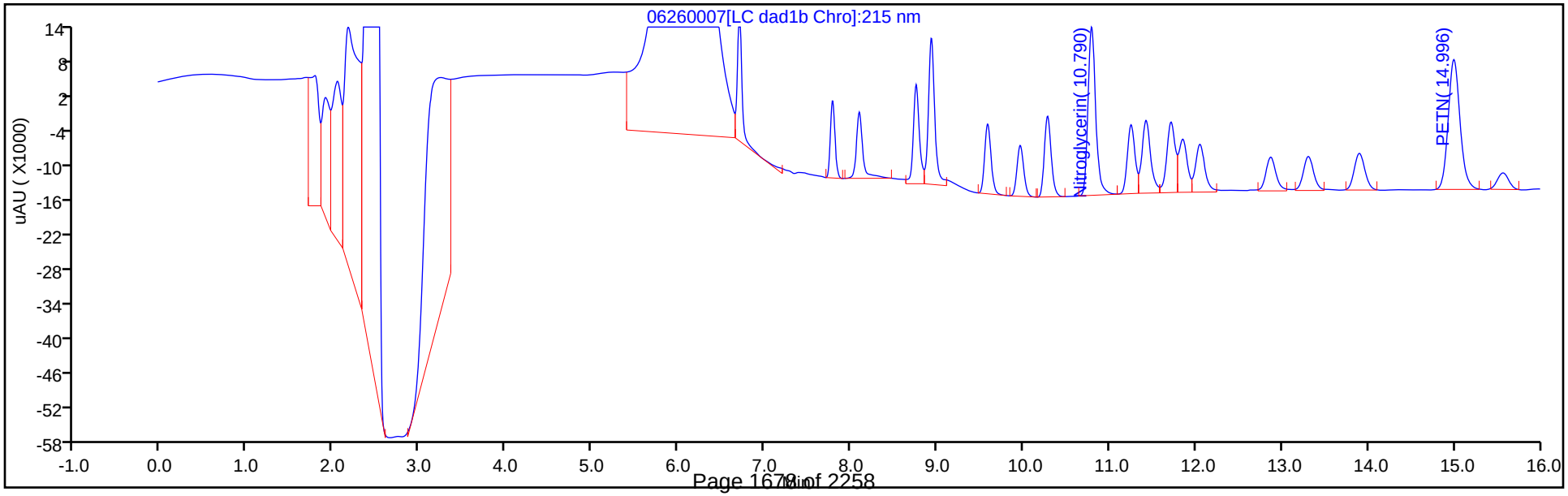
Data File: \\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260007.d

Injection Date:	26-Jun-2020 17:12:19	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	7
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

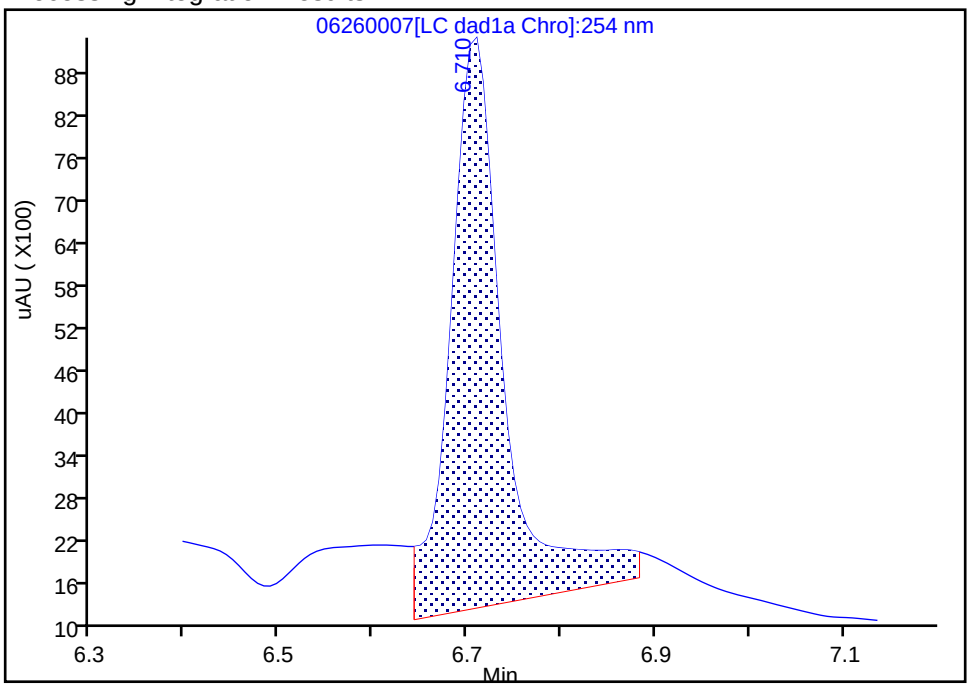
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260007.d				
Injection Date:	26-Jun-2020 17:12:19	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

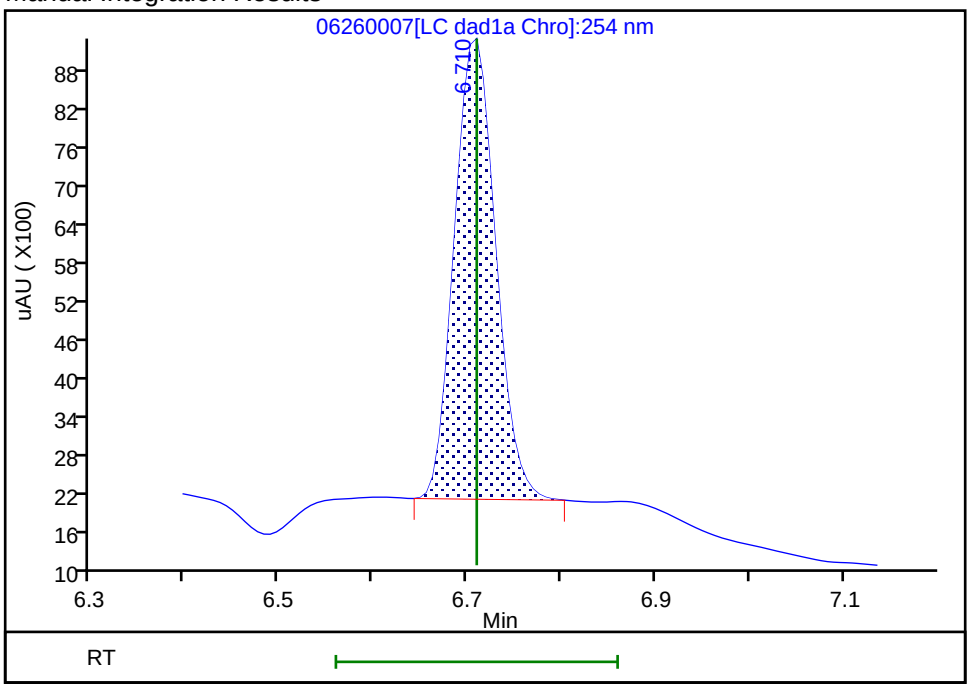
Processing Integration Results

RT: 6.71
Area: 32306
Amount: 0.375816
Amount Units: ug/mL



Manual Integration Results

RT: 6.71
Area: 22017
Amount: 0.256124
Amount Units: ug/mL



Reviewer: zhangji, 26-Jun-2020 17:46:41

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500316/9 Calibration Date: 06/26/2020 17:58

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06260009.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	211984		244	250	-2.6	15.0
DNX	Ave	152928	154254		252	250	0.9	15.0
MNX	Ave	158544	144634		266	292	-8.8	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500316/9 Calibration Date: 06/26/2020 17:58

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06260009.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.62	6.52	6.72
DNX	6.94	6.84	7.04
MNX	7.38	7.23	7.53

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\06260009.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	26-Jun-2020 17:58:23	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092794-009				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 13:26:12	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1036				
First Level Reviewer: zhangji		Date:	26-Jun-2020 18:28:26		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.616	6.617	-0.001	53049	0.2503	0.2438	M
5 DNX	1	6.936	6.937	-0.001	38602	0.2503	0.2524	M
6 MNX	1	7.383	7.384	-0.001	42197	0.2918	0.2662	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00006 Amount Added: 12.50 Units: uL

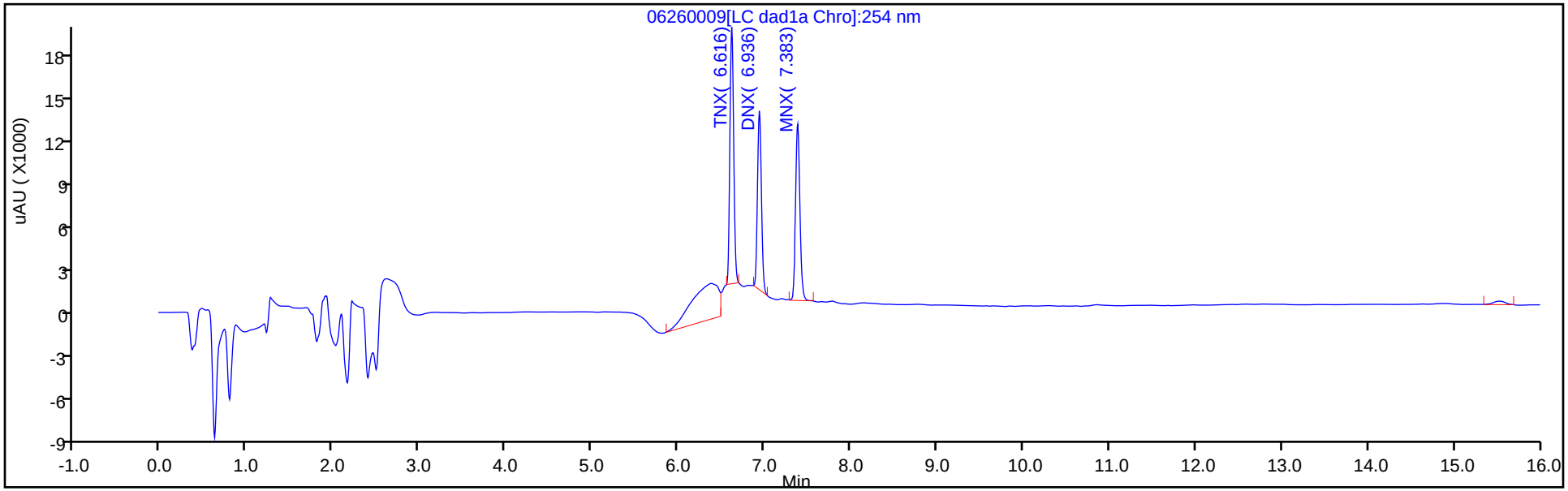
Report Date: 27-Jun-2020 13:26:12 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

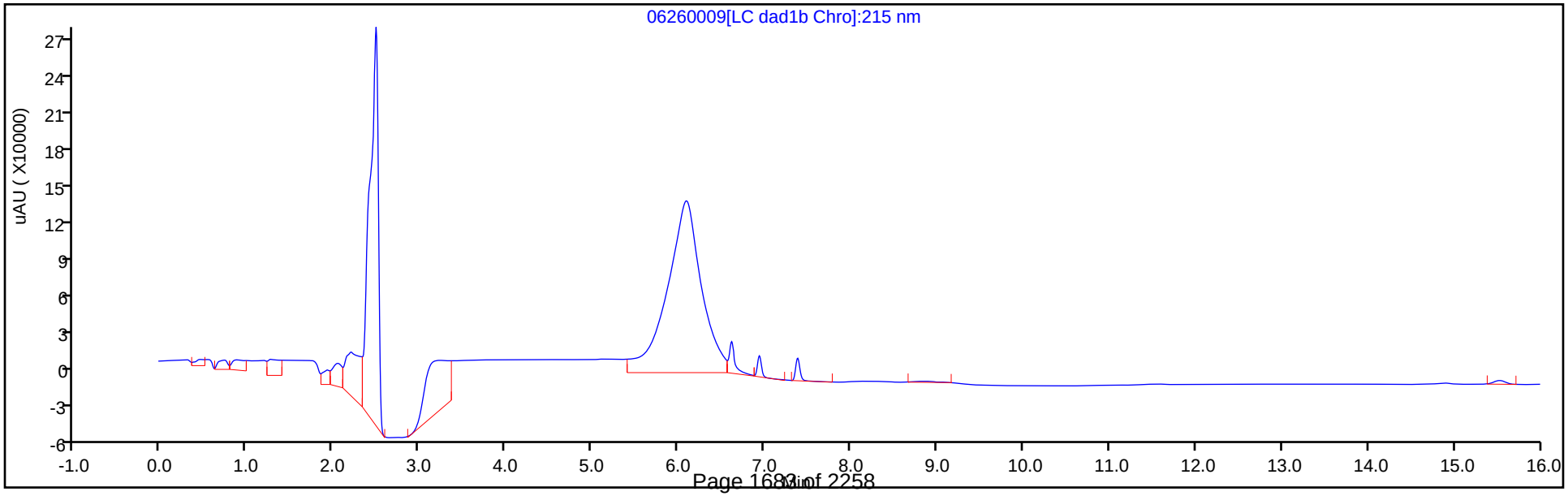
Data File: \\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260009.d

Injection Date:	26-Jun-2020 17:58:23	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	9
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

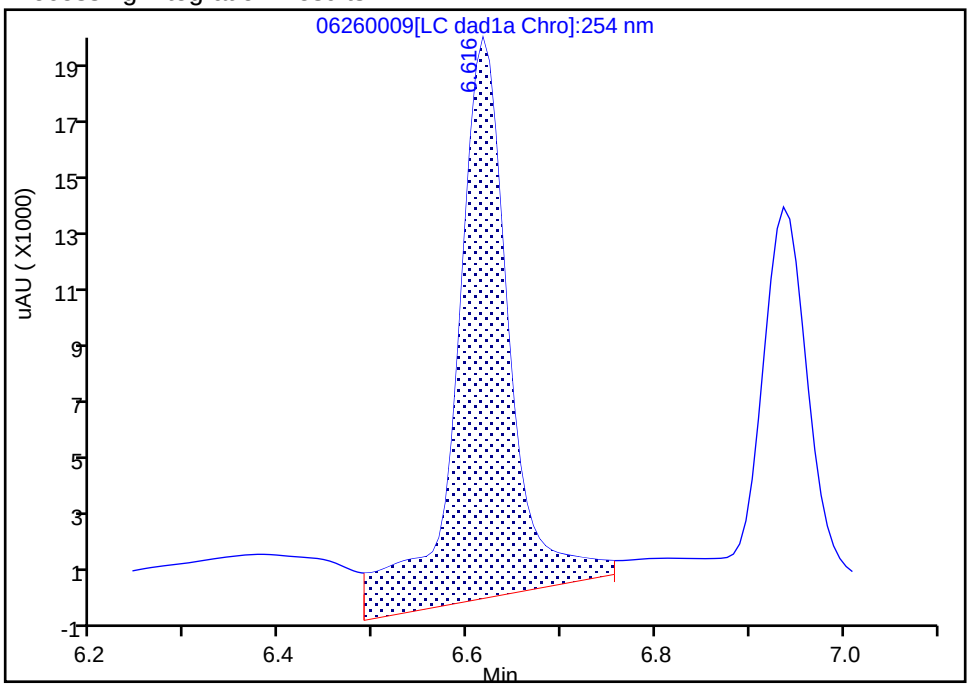
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260009.d				
Injection Date:	26-Jun-2020 17:58:23	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

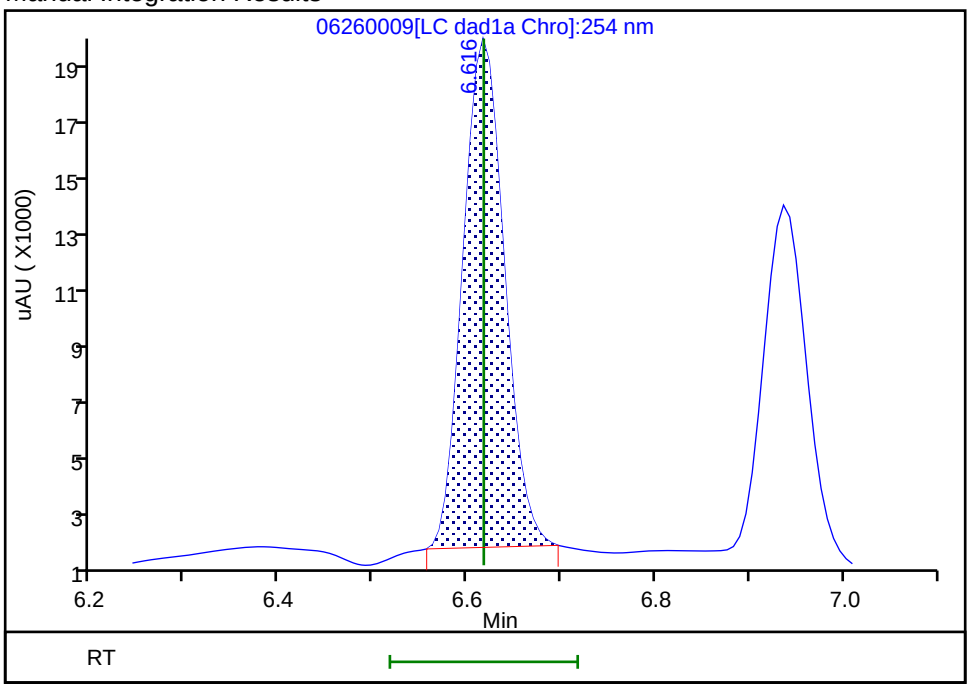
Processing Integration Results

RT: 6.62
Area: 74212
Amount: 0.341034
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 53049
Amount: 0.243782
Amount Units: ug/mL



Reviewer: zhangji, 26-Jun-2020 18:38:05

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

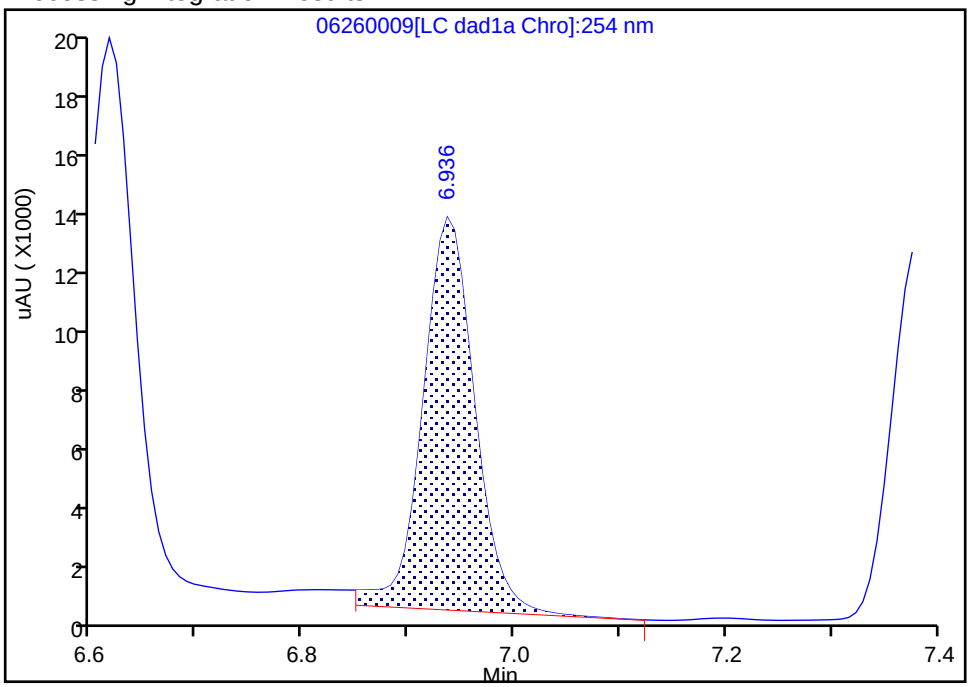
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260009.d				
Injection Date:	26-Jun-2020 17:58:23	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

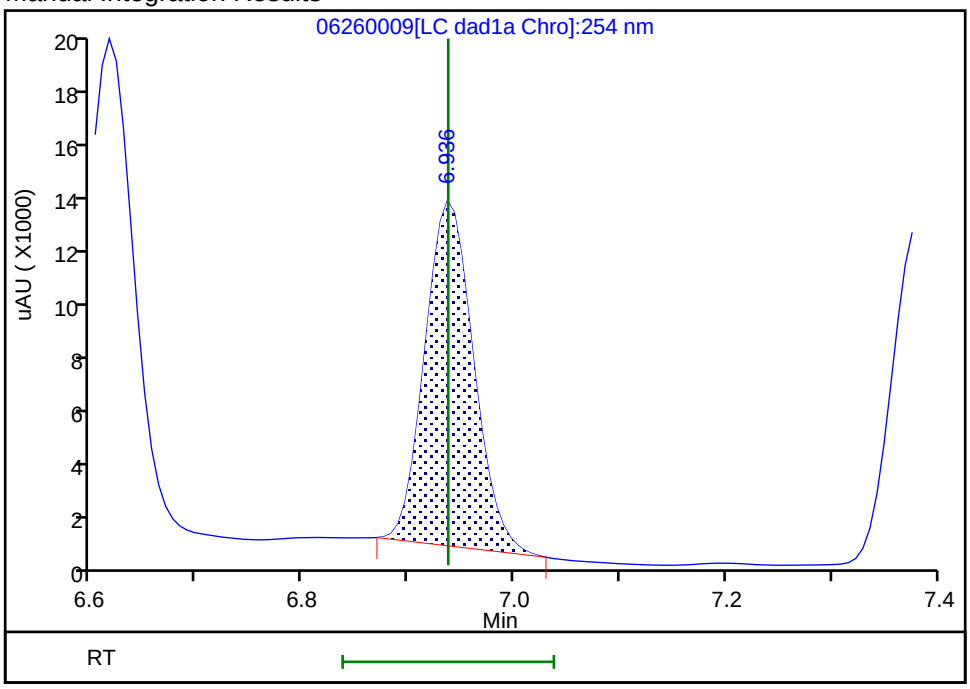
Processing Integration Results

RT: 6.94
Area: 42467
Amount: 0.277692
Amount Units: ug/mL



Manual Integration Results

RT: 6.94
Area: 38602
Amount: 0.252419
Amount Units: ug/mL



Reviewer: zhangji, 26-Jun-2020 18:38:09

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500316/20 Calibration Date: 06/26/2020 22:34

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06260020.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	87608		255	250	1.9	15.0
RDX	Ave	116613	109260		234	250	-6.3	15.0
Picric acid	Ave	85131	85228		250	250	0.1	15.0
1,3,5-Trinitrobenzene	Ave	230309	240715		262	251	4.5	15.0
1,3-Dinitrobenzene	Ave	306686	322523		263	251	5.2	15.0
Nitrobenzene	Ave	200403	203147		254	251	1.4	15.0
Tetryl	Ave	177032	182064		258	251	2.8	15.0
Nitroglycerin	Ave	68133	74101		2720	2500	8.8	15.0
2,4,6-Trinitrotoluene	Ave	204031	218773		269	251	7.2	15.0
4-Amino-2,6-dinitrotoluene	Lin2		165267		238	250	-4.7	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	207211		256	251	2.2	15.0
2,6-Dinitrotoluene	Ave	149452	162008		272	251	8.4	15.0
2,4-Dinitrotoluene	Ave	303584	312633		258	251	3.0	15.0
2-Nitrotoluene	Ave	135051	131112		243	250	-2.9	15.0
4-Nitrotoluene	Ave	113005	116850		259	251	3.4	15.0
3-Nitrotoluene	Ave	143029	147728		258	250	3.3	15.0
PETN	Ave	78605	85708		2730	2500	9.0	15.0
1,2-Dinitrobenzene	Ave	138212	143616		260	250	3.9	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500316/20 Calibration Date: 06/26/2020 22:34

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06260020.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.71	6.56	6.86
RDX	7.79	7.64	7.94
Picric acid	8.10	7.95	8.25
1,3,5-Trinitrobenzene	8.93	8.78	9.08
1,3-Dinitrobenzene	9.59	9.43	9.73
Nitrobenzene	9.97	9.81	10.11
Tetryl	10.28	10.13	10.43
Nitroglycerin	10.79	10.64	10.94
2,4,6-Trinitrotoluene	11.25	11.15	11.35
4-Amino-2,6-dinitrotoluene	11.43	11.32	11.52
2-Amino-4,6-dinitrotoluene	11.72	11.62	11.82
2,6-Dinitrotoluene	11.85	11.75	11.95
2,4-Dinitrotoluene	12.06	11.95	12.15
2-Nitrotoluene	12.89	12.72	13.02
4-Nitrotoluene	13.33	13.16	13.46
3-Nitrotoluene	13.92	13.75	14.05
PETN	15.02	14.85	15.15
1,2-Dinitrobenzene	8.75	8.61	8.91

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\06260020.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 26-Jun-2020 22:34:24 ALS Bottle#: 7 Worklist Smp#: 20
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0092794-020
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 13:26:16 Calib Date: 26-Jun-2020 01:16:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 27-Jun-2020 11:04:53

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.714	6.710	0.004	21902	0.2500	0.2548	M
7 RDX	1	7.794	7.790	0.004	27315	0.2500	0.2342	
8 2,4,6-Trinitrophenol	1	8.101	8.096	0.005	21307	0.2500	0.2503	
$ 9 1,2-Dinitrobenzene	1	8.754	8.756	-0.002	35904	0.2500	0.2598	
10 1,3,5-Trinitrobenzene	1	8.934	8.930	0.004	60299	0.2505	0.2618	
11 1,3-Dinitrobenzene	1	9.587	9.583	0.004	80792	0.2505	0.2634	
12 Nitrobenzene	1	9.967	9.963	0.004	50990	0.2510	0.2544	
14 Tetryl	1	10.281	10.283	-0.002	45607	0.2505	0.2576	
15 Nitroglycerin	2	10.794	10.790	0.004	185252	2.50	2.72	
16 2,4,6-Trinitrotoluene	1	11.254	11.250	0.004	54912	0.2510	0.2691	
17 4-Amino-2,6-dinitrotoluene	1	11.427	11.423	0.004	41358	0.2503	0.2384	
18 2-Amino-4,6-dinitrotoluene	1	11.721	11.716	0.005	52010	0.2510	0.2564	
19 2,6-Dinitrotoluene	1	11.854	11.850	0.004	40664	0.2510	0.2721	
20 2,4-Dinitrotoluene	1	12.061	12.050	0.011	78471	0.2510	0.2585	
21 o-Nitrotoluene	1	12.887	12.870	0.017	32778	0.2500	0.2427	
22 p-Nitrotoluene	1	13.327	13.310	0.017	29271	0.2505	0.2590	
23 m-Nitrotoluene	1	13.921	13.896	0.025	36969	0.2503	0.2585	
24 PETN	2	15.021	14.996	0.025	214271	2.50	2.73	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00061 Amount Added: 25.00 Units: uL

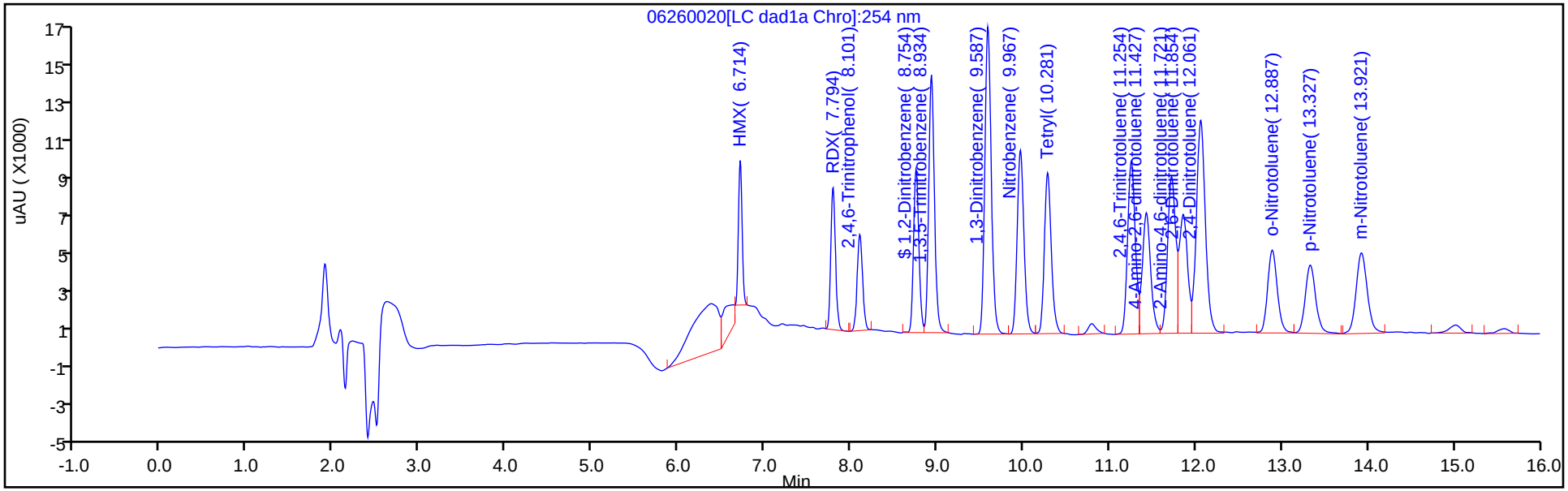
Report Date: 27-Jun-2020 13:26:16 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

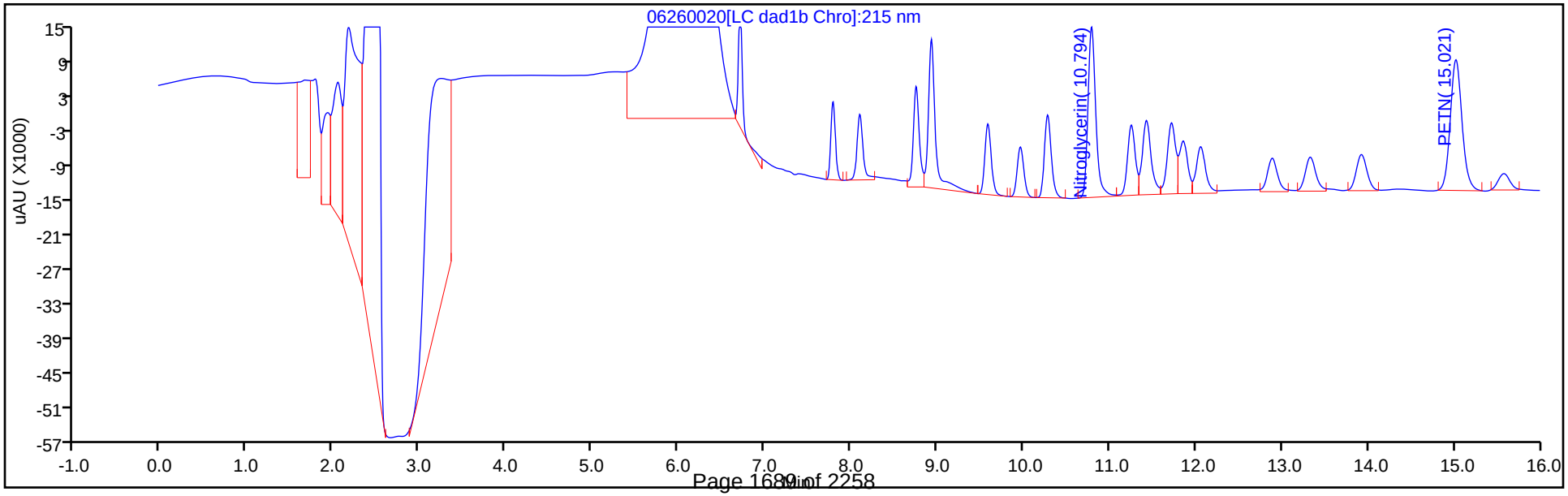
Data File: \\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260020.d

Injection Date:	26-Jun-2020 22:34:24	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	20
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

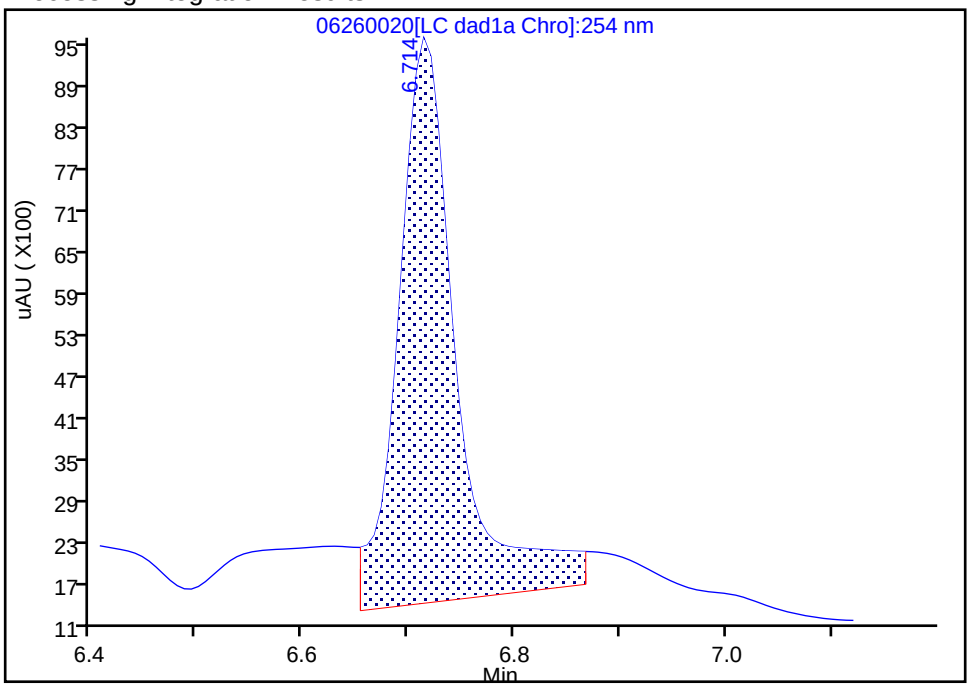
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260020.d				
Injection Date:	26-Jun-2020 22:34:24	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

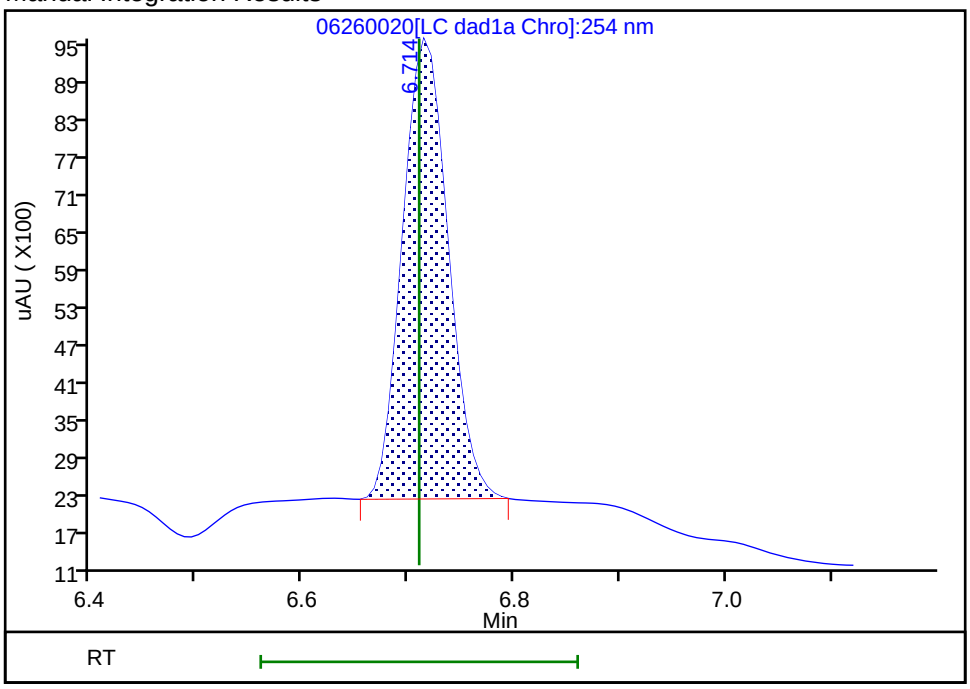
Processing Integration Results

RT: 6.71
Area: 31006
Amount: 0.360694
Amount Units: ug/mL



Manual Integration Results

RT: 6.71
Area: 21902
Amount: 0.254787
Amount Units: ug/mL



Reviewer: zhangji, 27-Jun-2020 11:04:51

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500316/22 Calibration Date: 06/26/2020 23:20

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06260022.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	206737		238	250	-5.0	15.0
DNX	Ave	152928	152895		250	250	-0.0	15.0
MNX	Ave	158544	144134		265	292	-9.1	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500316/22 Calibration Date: 06/26/2020 23:20

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06260022.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.62	6.52	6.72
DNX	6.94	6.84	7.04
MNX	7.38	7.23	7.53

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\06260022.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	26-Jun-2020 23:20:22	ALS Bottle#:	9	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092794-022				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 13:26:17	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1036				
First Level Reviewer: zhangji		Date:	27-Jun-2020 11:08:36		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.617	6.617	0.000	51736	0.2503	0.2377	M
5 DNX	1	6.937	6.937	0.000	38262	0.2503	0.2502	M
6 MNX	1	7.384	7.384	0.000	42051	0.2918	0.2652	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00006 Amount Added: 12.50 Units: uL

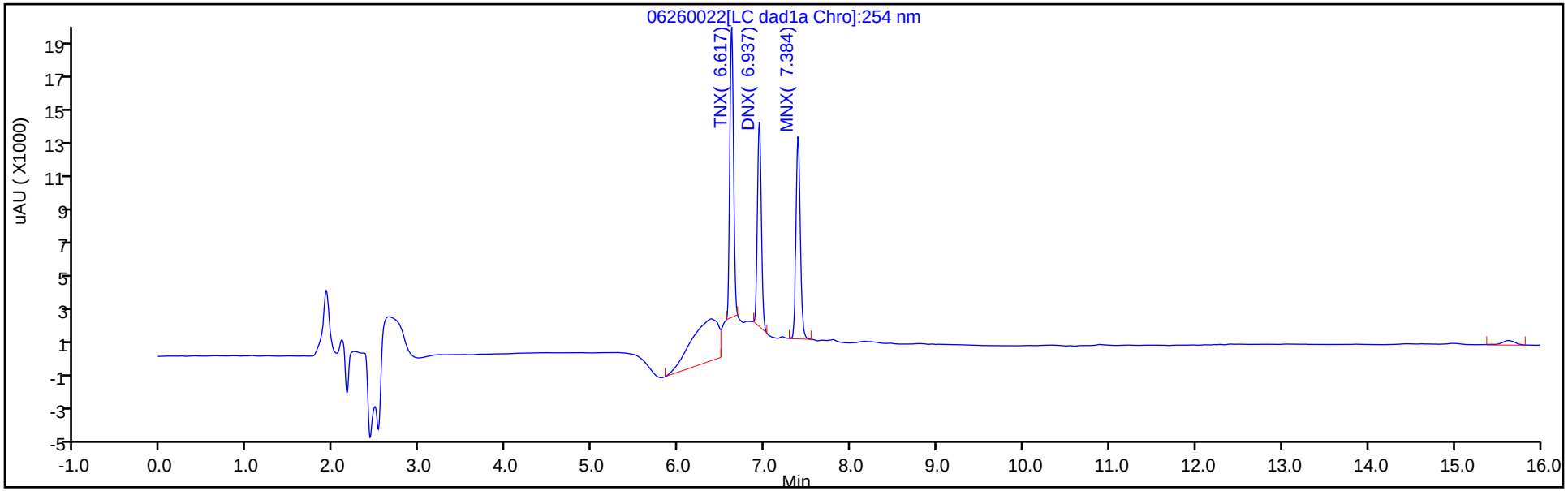
Report Date: 27-Jun-2020 13:26:17 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

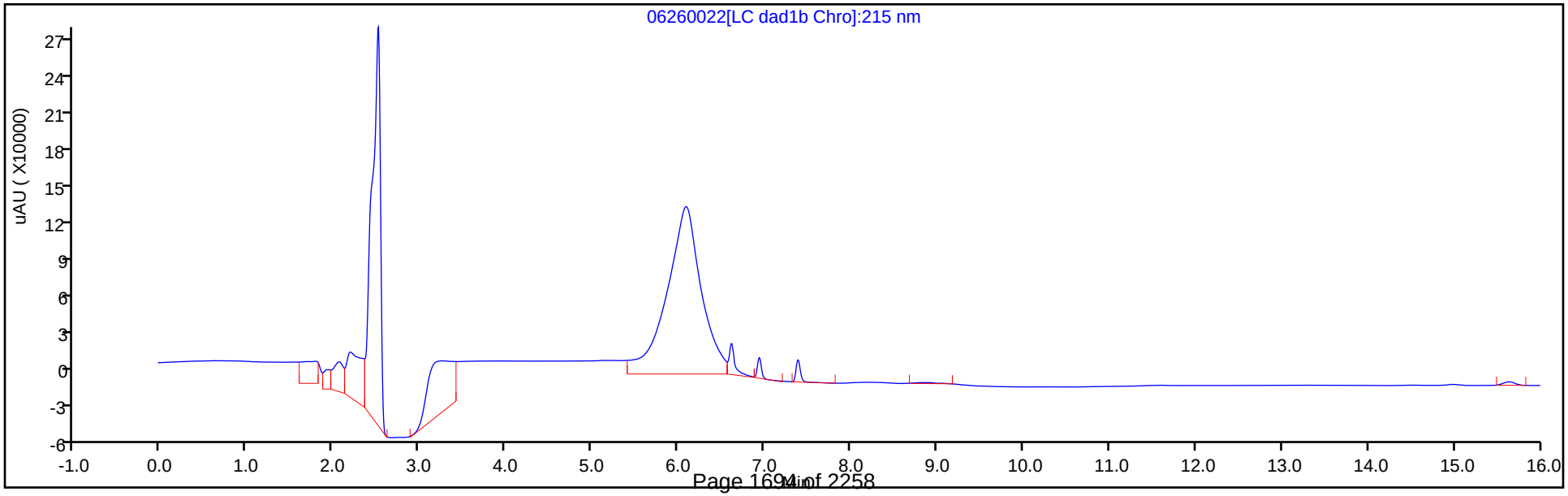
Data File: \\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260022.d

Injection Date:	26-Jun-2020 23:20:22	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	22
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

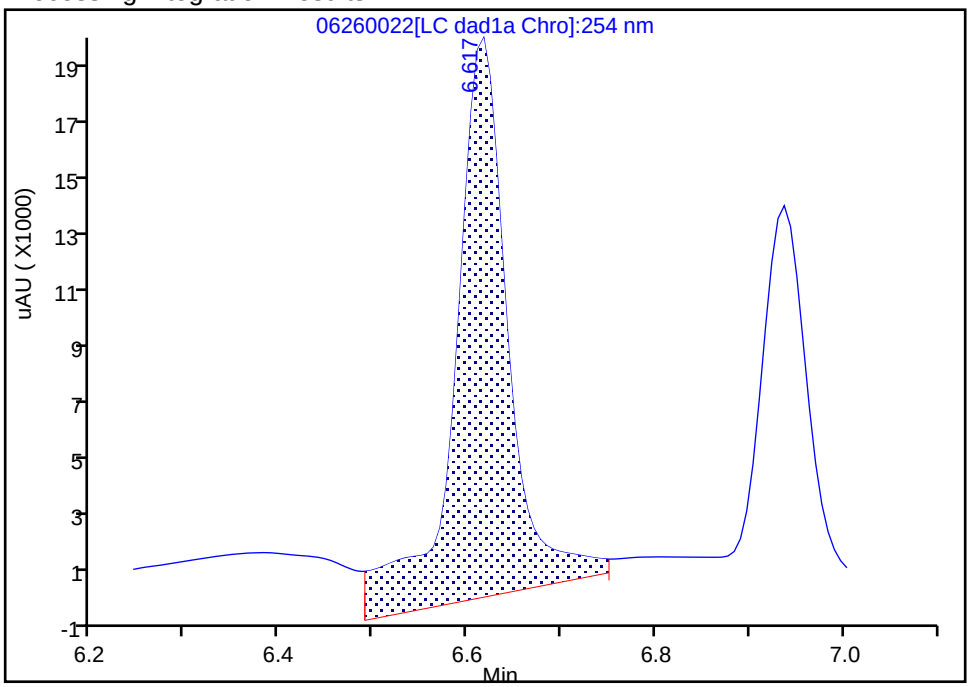
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260022.d				
Injection Date:	26-Jun-2020 23:20:22	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

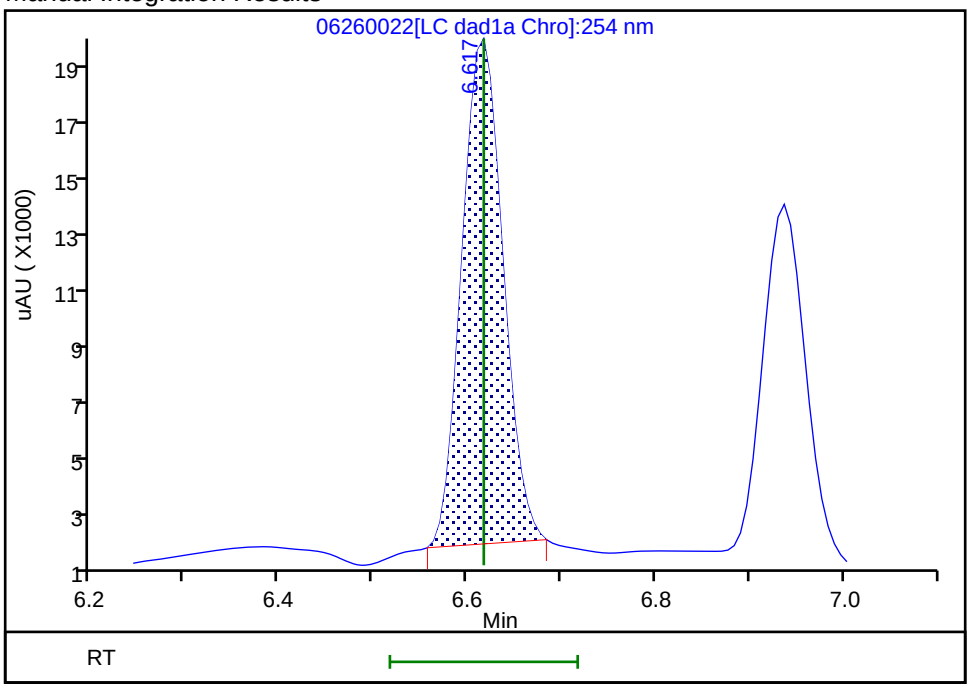
Processing Integration Results

RT: 6.62
Area: 73872
Amount: 0.339472
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 51736
Amount: 0.237748
Amount Units: ug/mL



Reviewer: zhangji, 27-Jun-2020 11:08:12

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

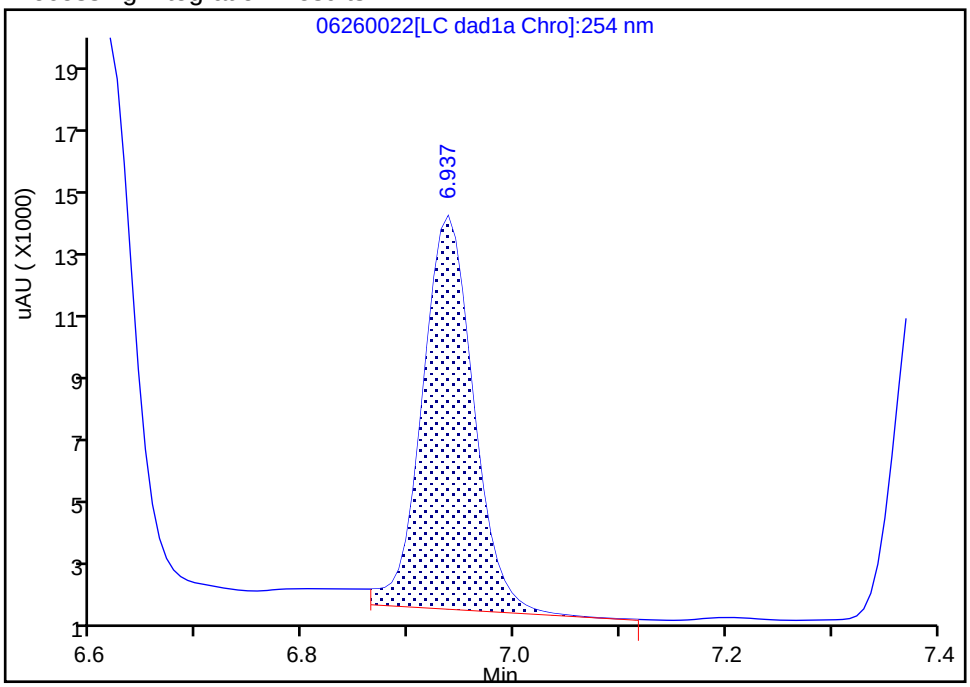
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260022.d				
Injection Date:	26-Jun-2020 23:20:22	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

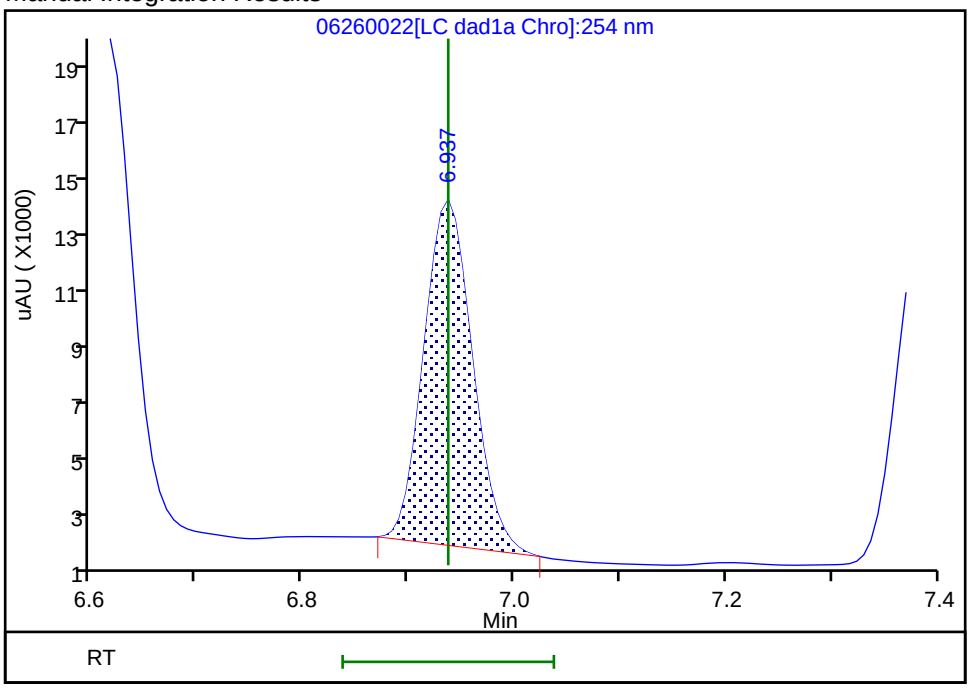
Processing Integration Results

RT: 6.94
Area: 41535
Amount: 0.271598
Amount Units: ug/mL



Manual Integration Results

RT: 6.94
Area: 38262
Amount: 0.250196
Amount Units: ug/mL



Reviewer: zhangji, 27-Jun-2020 11:08:21

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500691/21 Calibration Date: 06/30/2020 23:41

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06300021.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	95344		277	250	10.9	15.0
RDX	Ave	116613	117792		253	250	1.0	15.0
Picric acid	Ave	85131	90388		265	250	6.2	15.0
1,3,5-Trinitrobenzene	Ave	230309	255409		278	251	10.9	15.0
1,3-Dinitrobenzene	Ave	306686	342112		279	251	11.6	15.0
Nitrobenzene	Ave	200403	212359		266	251	6.0	15.0
Tetryl	Ave	177032	192515		272	251	8.7	15.0
Nitroglycerin	Ave	68133	76702		2810	2500	12.6	15.0
2,4,6-Trinitrotoluene	Ave	204031	229335		282	251	12.4	15.0
4-Amino-2,6-dinitrotoluene	Lin2		174929		252	250	0.7	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	226303		280	251	11.6	15.0
2,6-Dinitrotoluene	Ave	149452	163000		274	251	9.1	15.0
2,4-Dinitrotoluene	Ave	303584	334259		276	251	10.1	15.0
2-Nitrotoluene	Ave	135051	138032		256	250	2.2	15.0
4-Nitrotoluene	Ave	113005	118104		262	251	4.5	15.0
3-Nitrotoluene	Ave	143029	152440		267	250	6.6	15.0
PETN	Ave	78605	88389		2810	2500	12.4	15.0
1,2-Dinitrobenzene	Ave	138212	153052		277	250	10.7	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500691/21 Calibration Date: 06/30/2020 23:41

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06300021.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.72	6.56	6.86
RDX	7.80	7.63	7.93
Picric acid	8.12	7.93	8.23
1,3,5-Trinitrobenzene	8.95	8.78	9.08
1,3-Dinitrobenzene	9.61	9.43	9.73
Nitrobenzene	10.00	9.81	10.11
Tetryl	10.33	10.13	10.43
Nitroglycerin	10.84	10.64	10.94
2,4,6-Trinitrotoluene	11.30	11.15	11.35
4-Amino-2,6-dinitrotoluene	11.48	11.32	11.52
2-Amino-4,6-dinitrotoluene	11.78	11.61	11.81
2,6-Dinitrotoluene	11.91	11.75	11.95
2,4-Dinitrotoluene	12.11	11.95	12.15
2-Nitrotoluene	12.95	12.73	13.03
4-Nitrotoluene	13.40	13.17	13.47
3-Nitrotoluene	14.00	13.77	14.07
PETN	15.12	14.88	15.18
1,2-Dinitrobenzene	8.78	8.61	8.91

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300021.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 30-Jun-2020 23:41:50 ALS Bottle#: 7 Worklist Smp#: 21
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0092909-021
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 01-Jul-2020 15:06:11 Calib Date: 26-Jun-2020 01:16:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1062

First Level Reviewer: zhangji Date: 01-Jul-2020 14:17:54

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.715	6.710	0.005	23836	0.2500	0.2773	M
7 RDX	1	7.801	7.783	0.018	29448	0.2500	0.2525	
8 2,4,6-Trinitrophenol	1	8.121	8.083	0.038	22597	0.2500	0.2654	
$ 9 1,2-Dinitrobenzene	1	8.775	8.757	0.018	38263	0.2500	0.2768	
10 1,3,5-Trinitrobenzene	1	8.948	8.930	0.018	63980	0.2505	0.2778	
11 1,3-Dinitrobenzene	1	9.608	9.583	0.025	85699	0.2505	0.2794	
12 Nitrobenzene	1	9.995	9.963	0.032	53302	0.2510	0.2660	
14 Tetryl	1	10.328	10.283	0.045	48225	0.2505	0.2724	
15 Nitroglycerin	2	10.835	10.790	0.045	191756	2.50	2.81	
16 2,4,6-Trinitrotoluene	1	11.295	11.250	0.045	57563	0.2510	0.2821	
17 4-Amino-2,6-dinitrotoluene	1	11.481	11.423	0.058	43776	0.2503	0.2519	
18 2-Amino-4,6-dinitrotoluene	1	11.775	11.710	0.065	56802	0.2510	0.2801	M
19 2,6-Dinitrotoluene	1	11.908	11.850	0.058	40913	0.2510	0.2738	Ma
20 2,4-Dinitrotoluene	1	12.108	12.050	0.058	83899	0.2510	0.2764	
21 o-Nitrotoluene	1	12.948	12.883	0.065	34508	0.2500	0.2555	
22 p-Nitrotoluene	1	13.395	13.323	0.072	29585	0.2505	0.2618	
23 m-Nitrotoluene	1	13.995	13.923	0.072	38148	0.2503	0.2667	
24 PETN	2	15.121	15.030	0.091	220973	2.50	2.81	

QC Flag Legend

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

8330IntermStk_00061 Amount Added: 25.00 Units: uL

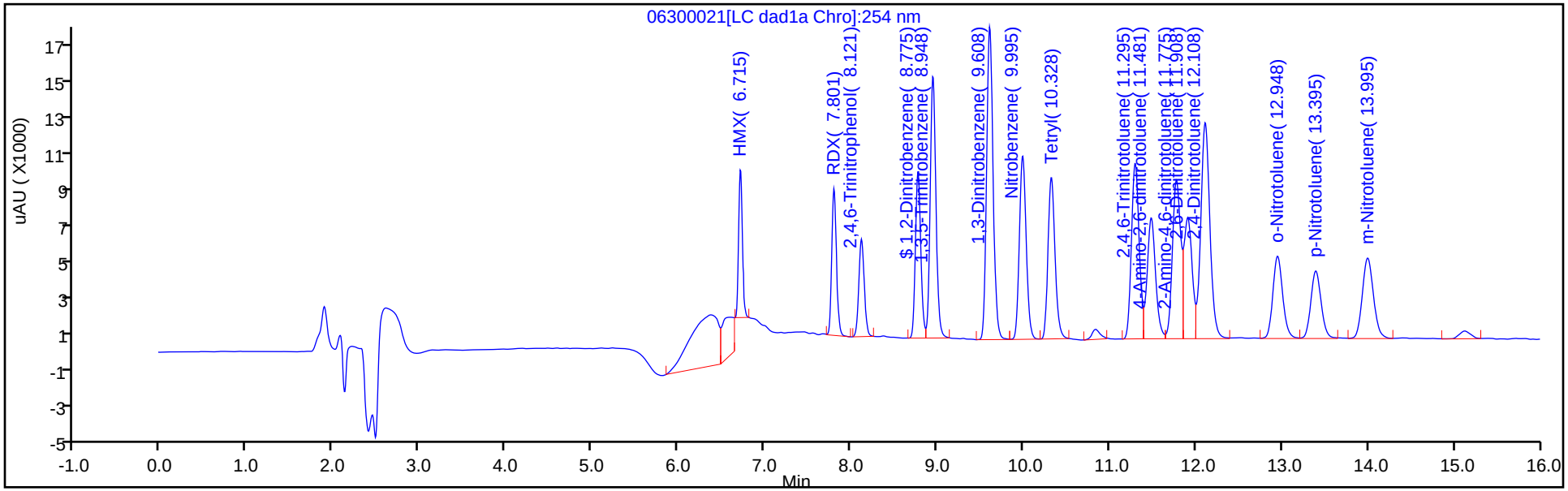
Report Date: 01-Jul-2020 15:06:11 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

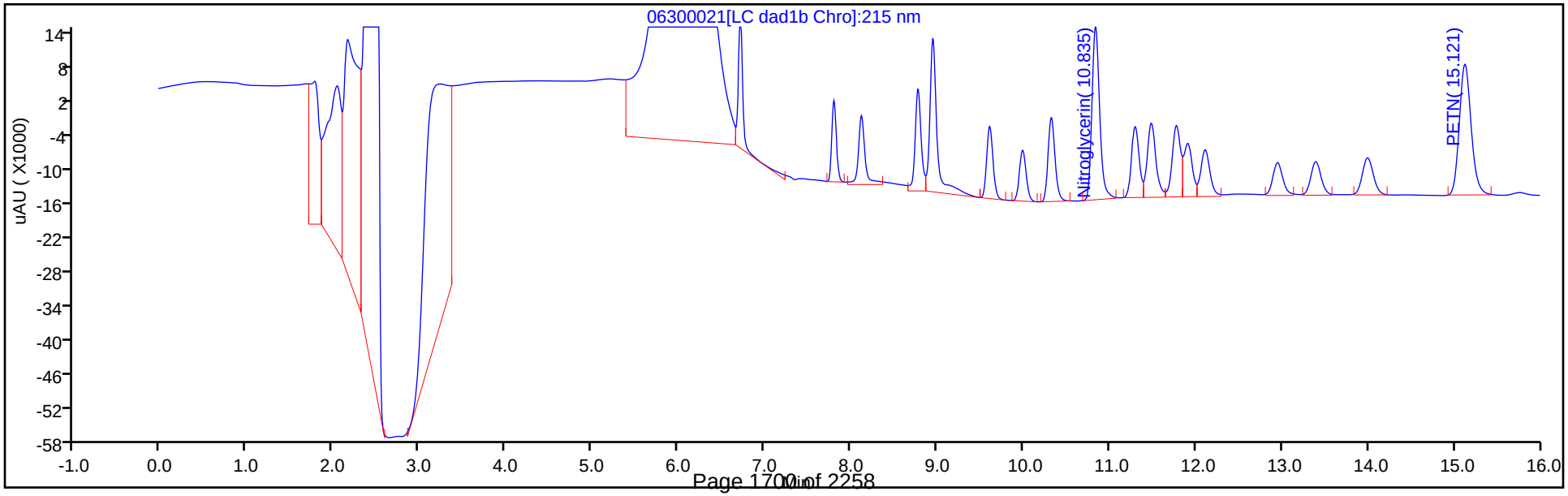
Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300021.d

Injection Date:	30-Jun-2020 23:41:50	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	21
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

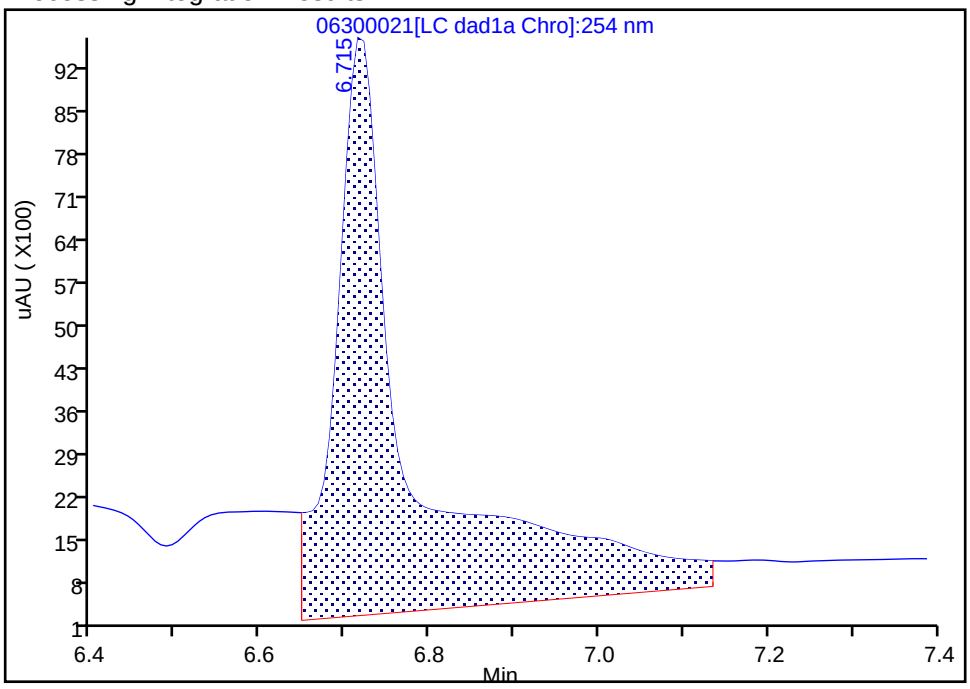
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300021.d				
Injection Date:	30-Jun-2020 23:41:50	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

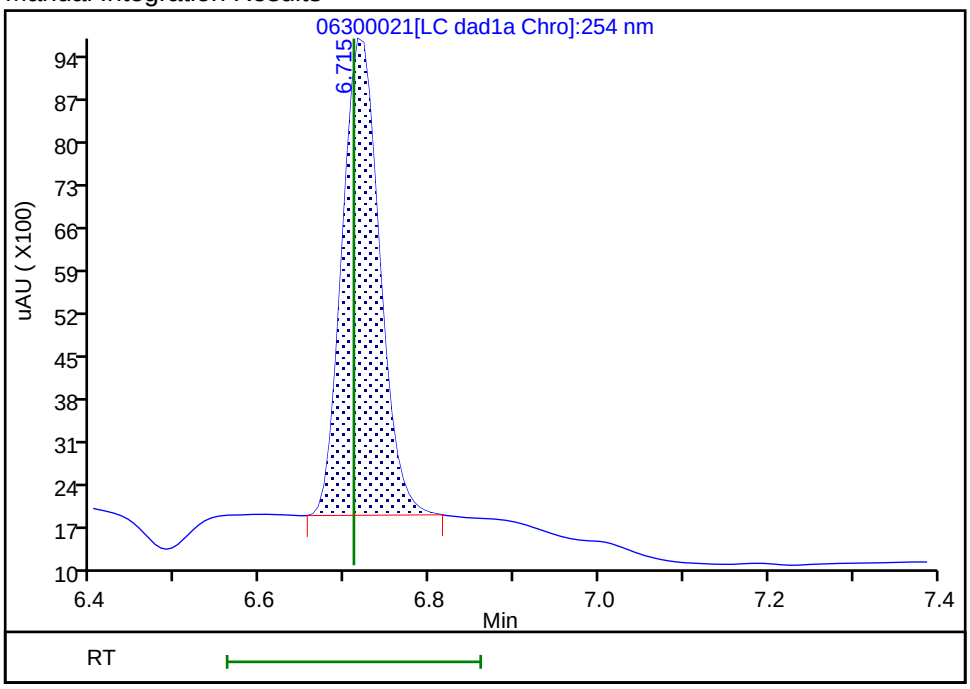
Processing Integration Results

RT: 6.71
Area: 59901
Amount: 0.696830
Amount Units: ug/mL



Manual Integration Results

RT: 6.71
Area: 23836
Amount: 0.277285
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:17:41
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

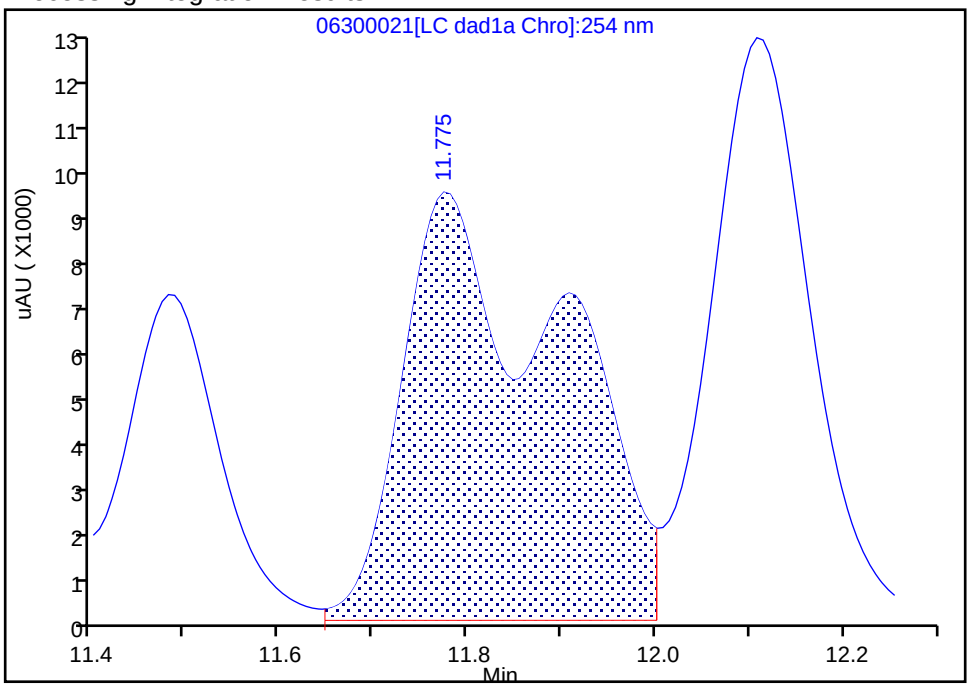
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300021.d				
Injection Date:	30-Jun-2020 23:41:50	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

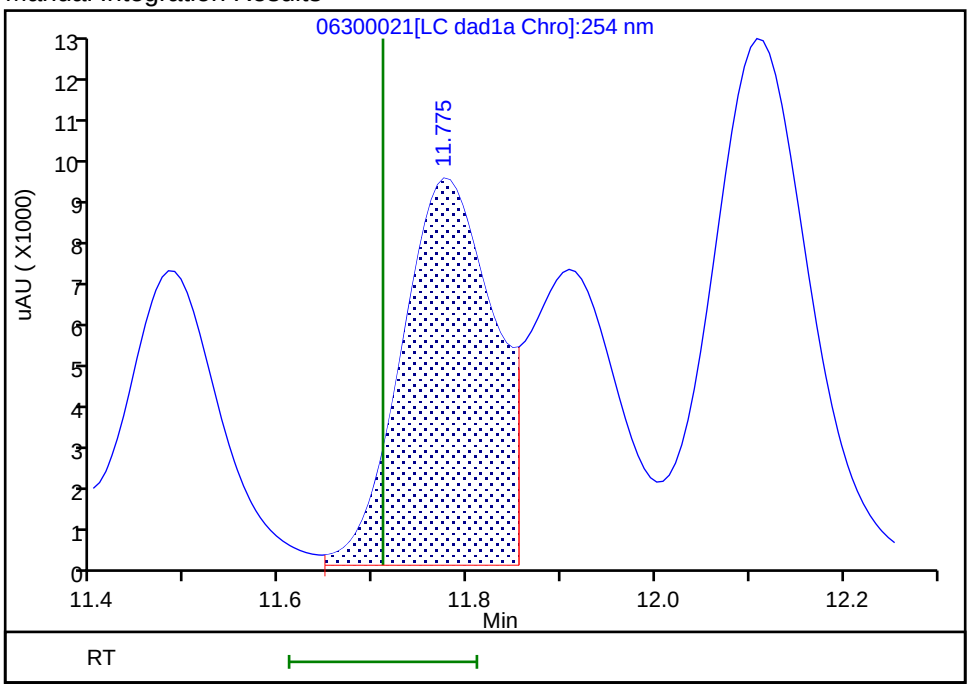
Processing Integration Results

RT: 11.77
Area: 97714
Amount: 0.481785
Amount Units: ug/mL



Manual Integration Results

RT: 11.77
Area: 56802
Amount: 0.280066
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:17:46
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

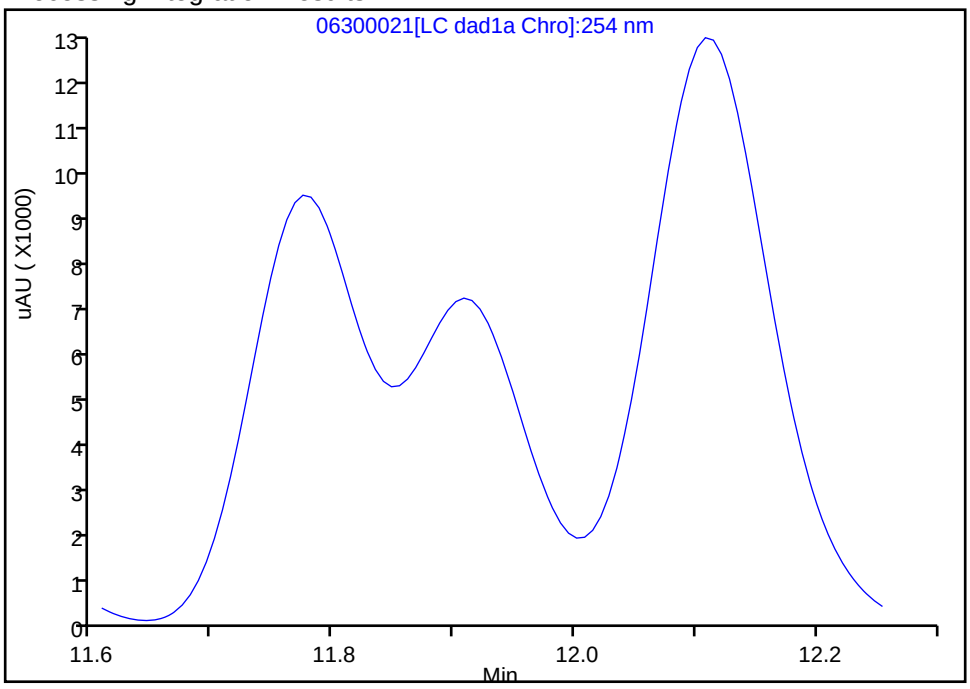
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300021.d				
Injection Date:	30-Jun-2020 23:41:50	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	21
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

19 2,6-Dinitrotoluene, CAS: 606-20-2

Signal: 1

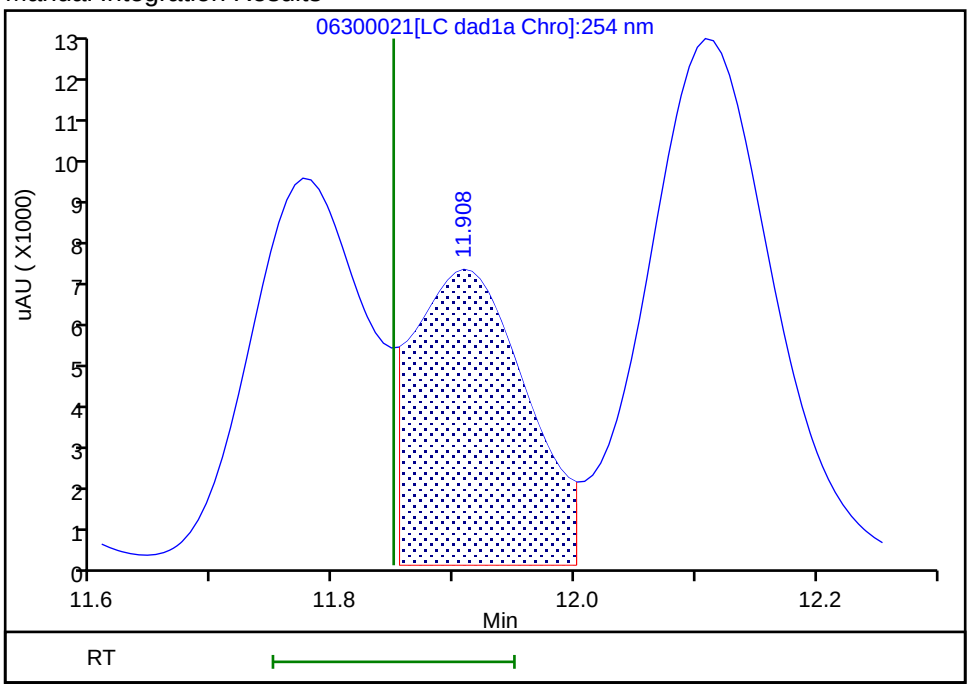
Not Detected
Expected RT: 11.85

Processing Integration Results



Manual Integration Results

RT: 11.91
Area: 40913
Amount: 0.273753
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:17:52
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500691/22 Calibration Date: 07/01/2020 00:04

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06300022.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	205626		236	250	-5.5	15.0
DNX	Ave	152928	152551		250	250	-0.2	15.0
MNX	Ave	158544	141580		261	292	-10.7	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500691/22 Calibration Date: 07/01/2020 00:04

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06300022.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.61	6.51	6.71
DNX	6.94	6.83	7.03
MNX	7.39	7.24	7.54

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300022.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	01-Jul-2020 00:04:52	ALS Bottle#:	9	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092909-022				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	01-Jul-2020 15:06:12	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1062				
First Level Reviewer: zhangji		Date:	01-Jul-2020 14:18:31		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.613	6.613	0.000	51458	0.2503	0.2365	M
5 DNX	1	6.940	6.933	0.007	38176	0.2503	0.2496	M
6 MNX	1	7.387	7.386	0.001	41306	0.2918	0.2605	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00006 Amount Added: 12.50 Units: uL

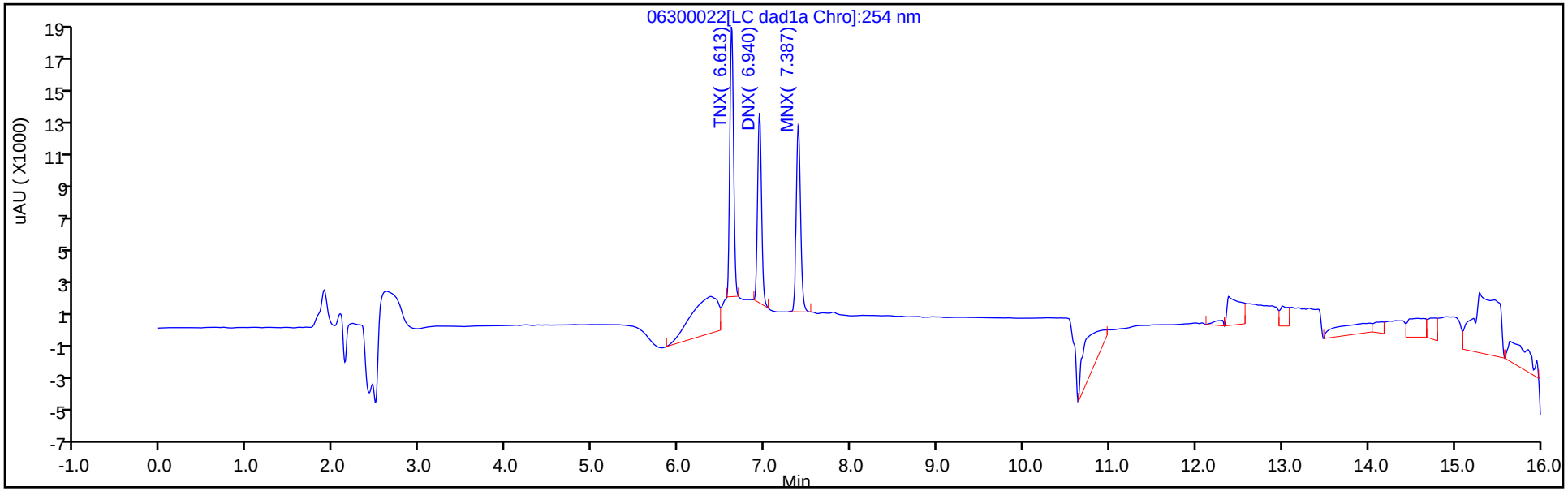
Report Date: 01-Jul-2020 15:06:12 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

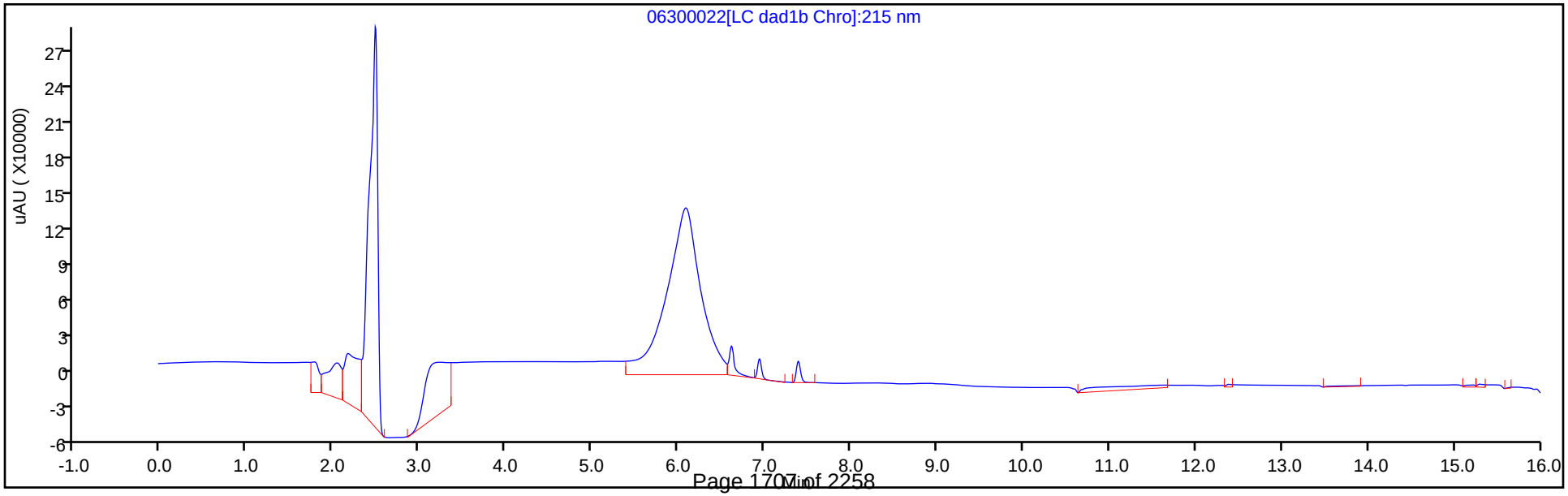
Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300022.d

Injection Date:	01-Jul-2020 00:04:52	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	22
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

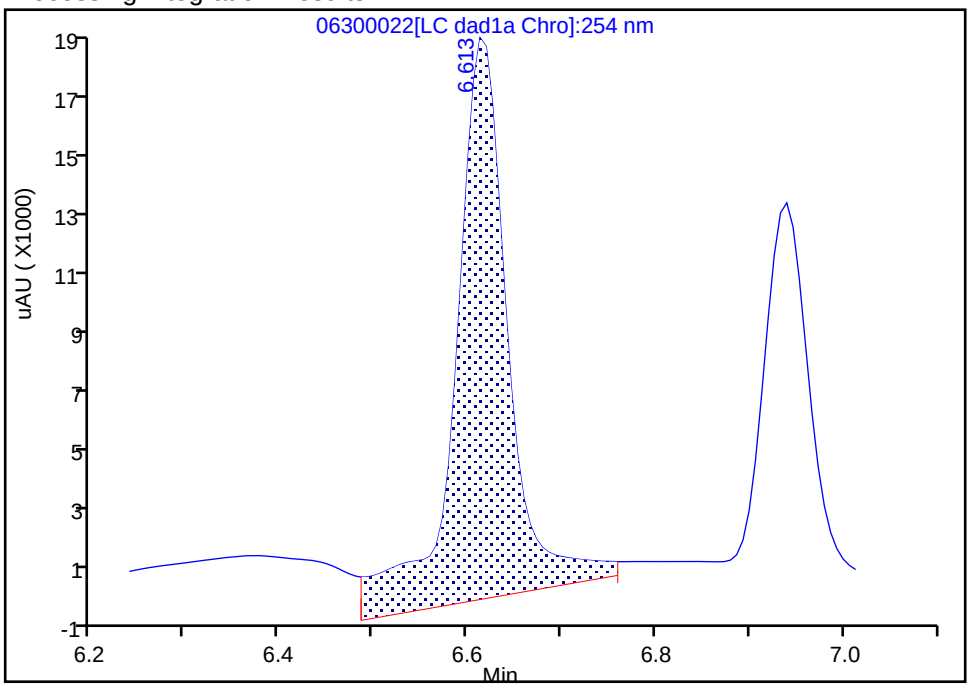
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300022.d				
Injection Date:	01-Jul-2020 00:04:52	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

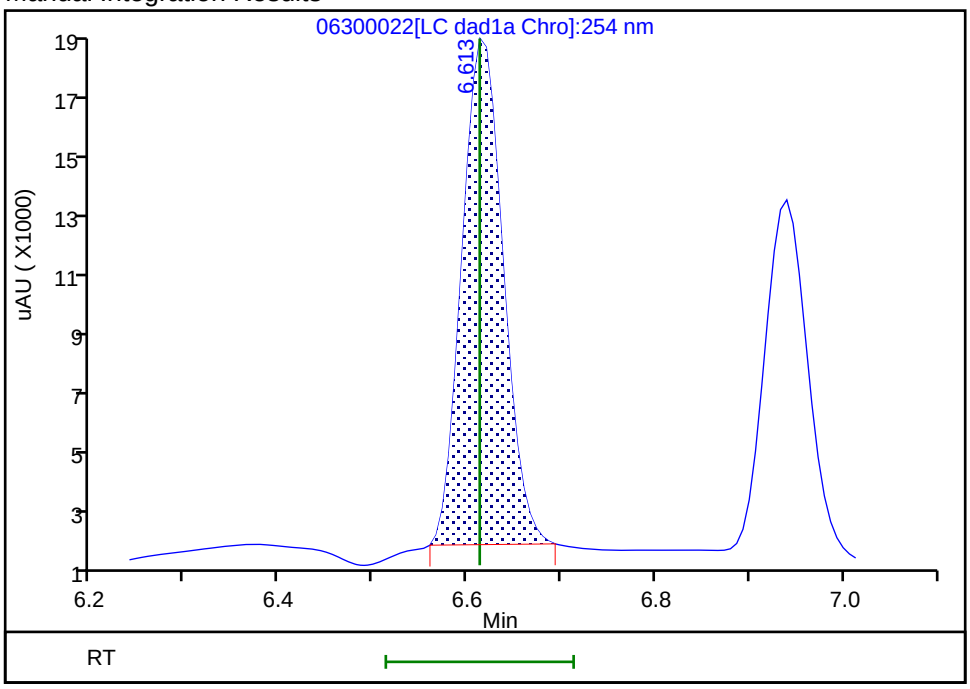
Processing Integration Results

RT: 6.61
Area: 71778
Amount: 0.329849
Amount Units: ug/mL



Manual Integration Results

RT: 6.61
Area: 51458
Amount: 0.236470
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:18:23
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

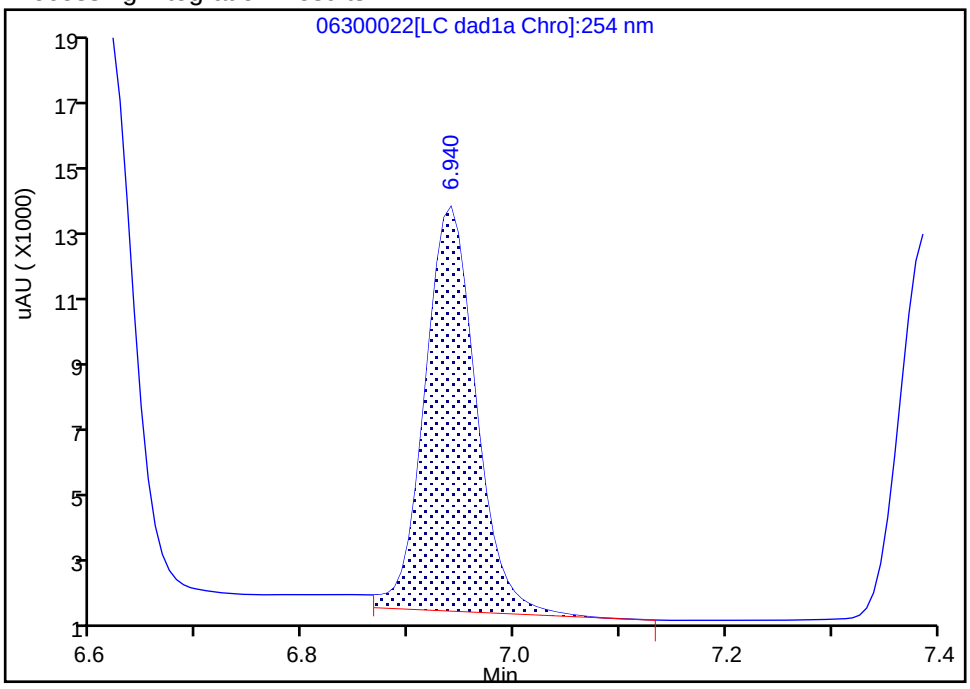
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300022.d				
Injection Date:	01-Jul-2020 00:04:52	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	22
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

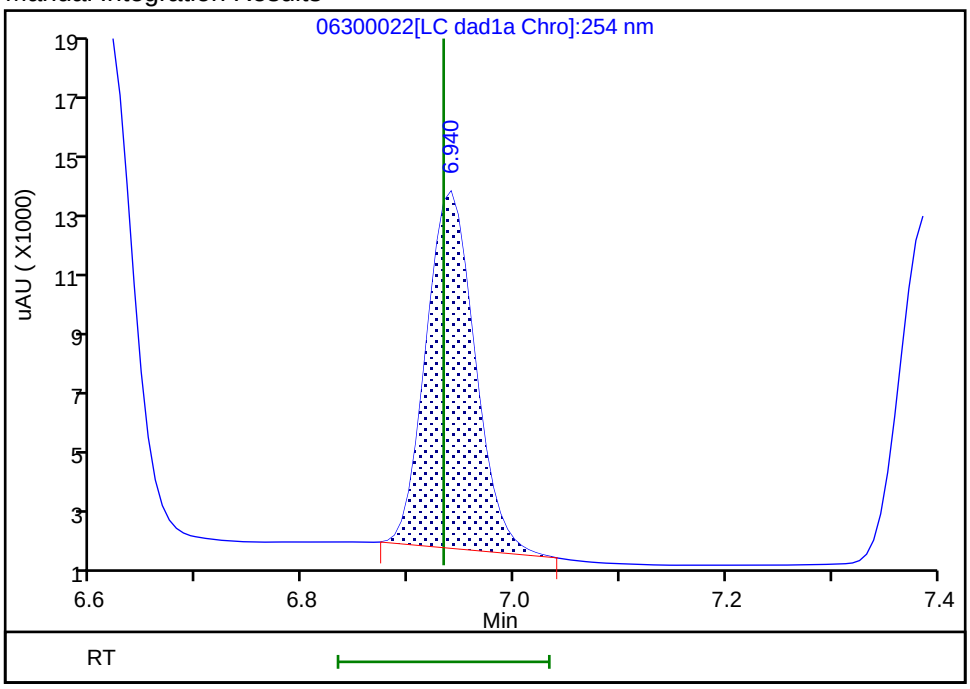
Processing Integration Results

RT: 6.94
Area: 41021
Amount: 0.268237
Amount Units: ug/mL



Manual Integration Results

RT: 6.94
Area: 38176
Amount: 0.249633
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:18:27

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500691/34 Calibration Date: 07/01/2020 04:41

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06300034.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	85962	96024		279	250	11.7	15.0
RDX	Ave	116613	119500		256	250	2.5	15.0
Picric acid	Ave	85131	92120		271	250	8.2	15.0
1,3,5-Trinitrobenzene	Ave	230309	259784		283	251	12.8	15.0
1,3-Dinitrobenzene	Ave	306686	344587		281	251	12.4	15.0
Nitrobenzene	Ave	200403	208315		261	251	3.9	15.0
Tetryl	Ave	177032	193565		274	251	9.3	15.0
Nitroglycerin	Ave	68133	77266		2840	2500	13.4	15.0
2,4,6-Trinitrotoluene	Ave	204031	233394		287	251	14.4	15.0
4-Amino-2,6-dinitrotoluene	Lin2		176503		254	250	1.6	15.0
2-Amino-4,6-dinitrotoluene	Ave	202817	223450		277	251	10.2	15.0
2,6-Dinitrotoluene	Ave	149452	172259		289	251	15.3*	15.0
2,4-Dinitrotoluene	Ave	303584	337080		279	251	11.0	15.0
2-Nitrotoluene	Ave	135051	134496		249	250	-0.4	15.0
4-Nitrotoluene	Ave	113005	119429		265	251	5.7	15.0
3-Nitrotoluene	Ave	143029	151001		264	250	5.6	15.0
PETN	Ave	78605	88769		2820	2500	12.9	15.0
1,2-Dinitrobenzene	Ave	138212	155024		280	250	12.2	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500691/34 Calibration Date: 07/01/2020 04:41

Instrument ID: CHHPLC_X3 Calib Start Date: 03/18/2020 11:35

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/18/2020 14:39

Lab File ID: 06300034.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.72	6.56	6.86
RDX	7.81	7.63	7.93
Picric acid	8.13	7.93	8.23
1,3,5-Trinitrobenzene	8.95	8.78	9.08
1,3-Dinitrobenzene	9.61	9.43	9.73
Nitrobenzene	9.99	9.81	10.11
Tetryl	10.33	10.13	10.43
Nitroglycerin	10.84	10.64	10.94
2,4,6-Trinitrotoluene	11.30	11.15	11.35
4-Amino-2,6-dinitrotoluene	11.49	11.32	11.52
2-Amino-4,6-dinitrotoluene	11.78	11.61	11.81
2,6-Dinitrotoluene	11.91	11.75	11.95
2,4-Dinitrotoluene	12.11	11.95	12.15
2-Nitrotoluene	12.95	12.73	13.03
4-Nitrotoluene	13.39	13.17	13.47
3-Nitrotoluene	14.00	13.77	14.07
PETN	15.13	14.88	15.18
1,2-Dinitrobenzene	8.78	8.61	8.91

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300034.D
Lims ID: CCV INT
Client ID:
Sample Type: CCV
Inject. Date: 01-Jul-2020 04:41:17 ALS Bottle#: 7 Worklist Smp#: 34
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: CCV INT
Misc. Info.: 280-0092909-034
Operator ID: JZ Instrument ID: CHHPLC_X3
Sublist: chrom-8330_X3*sub9

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 01-Jul-2020 15:06:18 Calib Date: 26-Jun-2020 01:16:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1062

First Level Reviewer: zhangji Date: 01-Jul-2020 14:59:09

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.719	6.710	0.009	24006	0.2500	0.2793	M
7 RDX	1	7.805	7.783	0.022	29875	0.2500	0.2562	
8 2,4,6-Trinitrophenol	1	8.125	8.083	0.042	23030	0.2500	0.2705	
$ 9 1,2-Dinitrobenzene	1	8.779	8.757	0.022	38756	0.2500	0.2804	
10 1,3,5-Trinitrobenzene	1	8.952	8.930	0.022	65076	0.2505	0.2826	
11 1,3-Dinitrobenzene	1	9.612	9.583	0.029	86319	0.2505	0.2815	
12 Nitrobenzene	1	9.992	9.963	0.029	52287	0.2510	0.2609	
14 Tetryl	1	10.325	10.283	0.042	48488	0.2505	0.2739	
15 Nitroglycerin	2	10.838	10.790	0.048	193164	2.50	2.84	
16 2,4,6-Trinitrotoluene	1	11.298	11.250	0.048	58582	0.2510	0.2871	
17 4-Amino-2,6-dinitrotoluene	1	11.485	11.423	0.062	44170	0.2503	0.2542	
18 2-Amino-4,6-dinitrotoluene	1	11.778	11.710	0.068	56086	0.2510	0.2765	
19 2,6-Dinitrotoluene	1	11.905	11.850	0.055	43237	0.2510	0.2893	
20 2,4-Dinitrotoluene	1	12.112	12.050	0.062	84607	0.2510	0.2787	
21 o-Nitrotoluene	1	12.945	12.883	0.062	33624	0.2500	0.2490	
22 p-Nitrotoluene	1	13.392	13.323	0.069	29917	0.2505	0.2647	
23 m-Nitrotoluene	1	13.998	13.923	0.075	37788	0.2503	0.2642	
24 PETN	2	15.125	15.030	0.095	221922	2.50	2.82	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330IntermStk_00061 Amount Added: 25.00 Units: uL

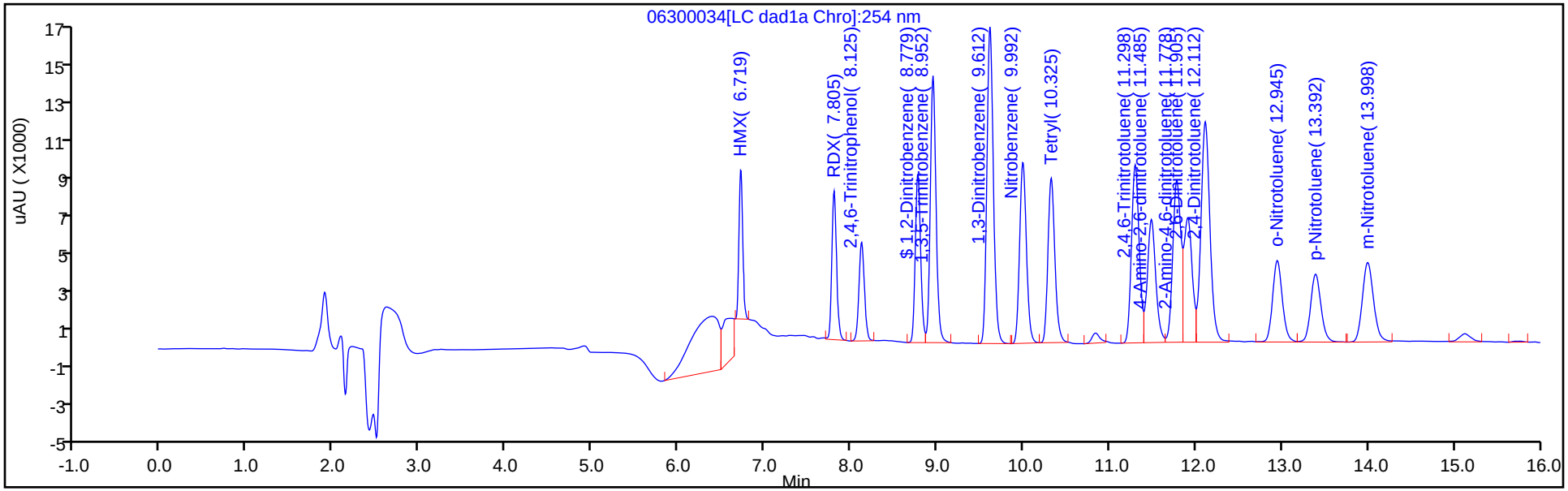
Report Date: 01-Jul-2020 15:06:18 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

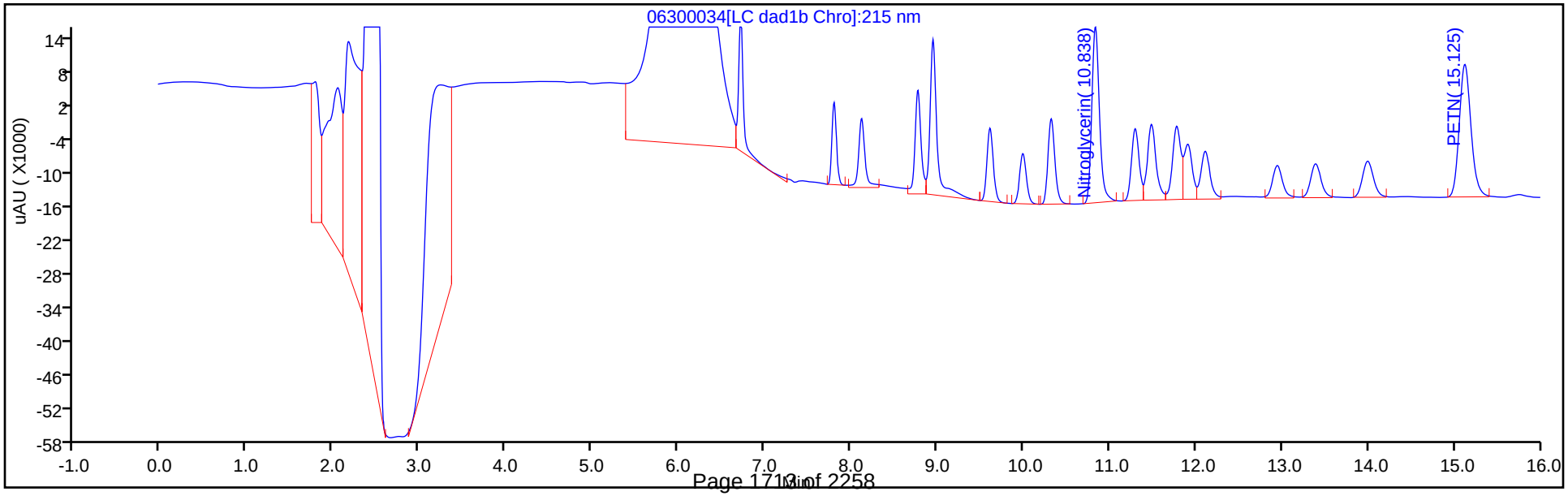
Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300034.d

Injection Date:	01-Jul-2020 04:41:17	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV INT			Worklist Smp#:	34
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

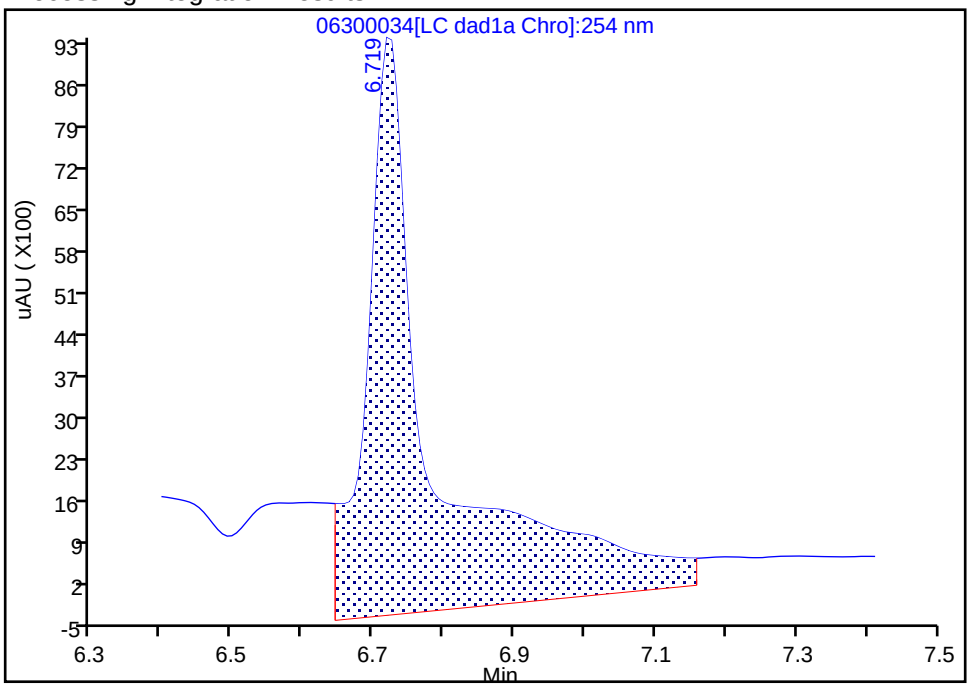
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300034.d				
Injection Date:	01-Jul-2020 04:41:17	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV INT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	7	Worklist Smp#:	34
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

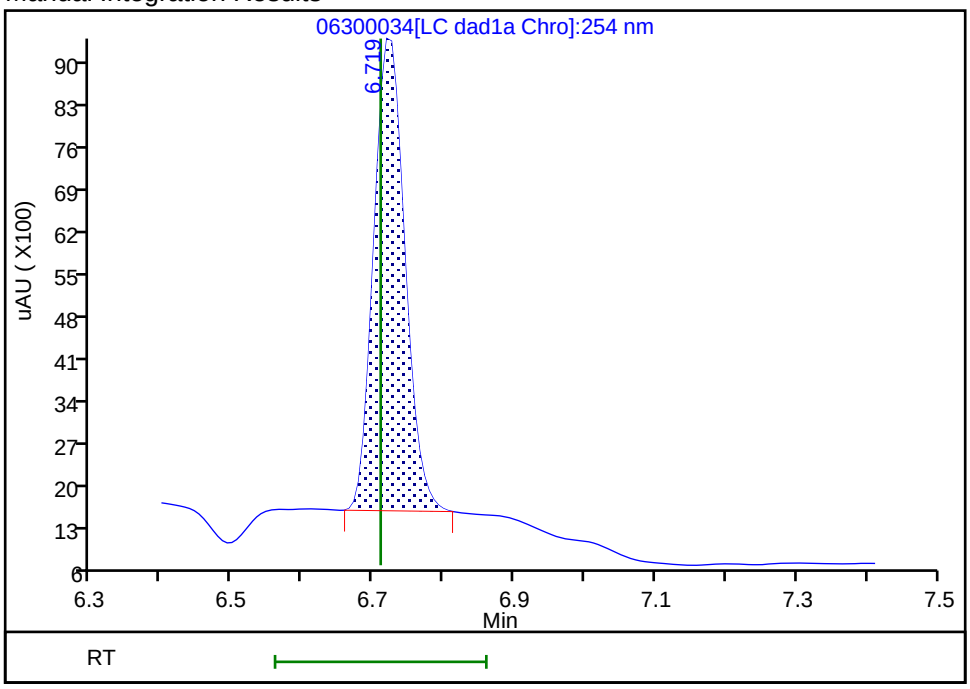
Processing Integration Results

RT: 6.72
Area: 64912
Amount: 0.755123
Amount Units: ug/mL



Manual Integration Results

RT: 6.72
Area: 24006
Amount: 0.279262
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:59:07
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500691/35 Calibration Date: 07/01/2020 05:04

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06300035.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	203940		235	250	-6.3	15.0
DNX	Ave	152928	151241		247	250	-1.1	15.0
MNX	Ave	158544	143181		263	292	-9.7	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Lab Sample ID: CCV 280-500691/35 Calibration Date: 07/01/2020 05:04

Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 21:00

GC Column: UltraCarb5uODS ID: 4.60(mm) Calib End Date: 03/04/2020 23:40

Lab File ID: 06300035.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.62	6.51	6.71
DNX	6.94	6.83	7.03
MNX	7.39	7.24	7.54

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300035.D				
Lims ID:	CCV DMT				
Client ID:					
Sample Type:	CCV				
Inject. Date:	01-Jul-2020 05:04:17	ALS Bottle#:	9	Worklist Smp#:	35
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	CCV DMT				
Misc. Info.:	280-0092909-035				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Sublist:	chrom-8330_X3*sub17				
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	01-Jul-2020 15:06:18	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1062				
First Level Reviewer: zhangji		Date:	01-Jul-2020 14:59:29		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.617	6.613	0.004	51036	0.2503	0.2345	M
5 DNX	1	6.943	6.933	0.010	37848	0.2503	0.2475	M
6 MNX	1	7.390	7.386	0.004	41773	0.2918	0.2635	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8330 DMT_00006 Amount Added: 12.50 Units: uL

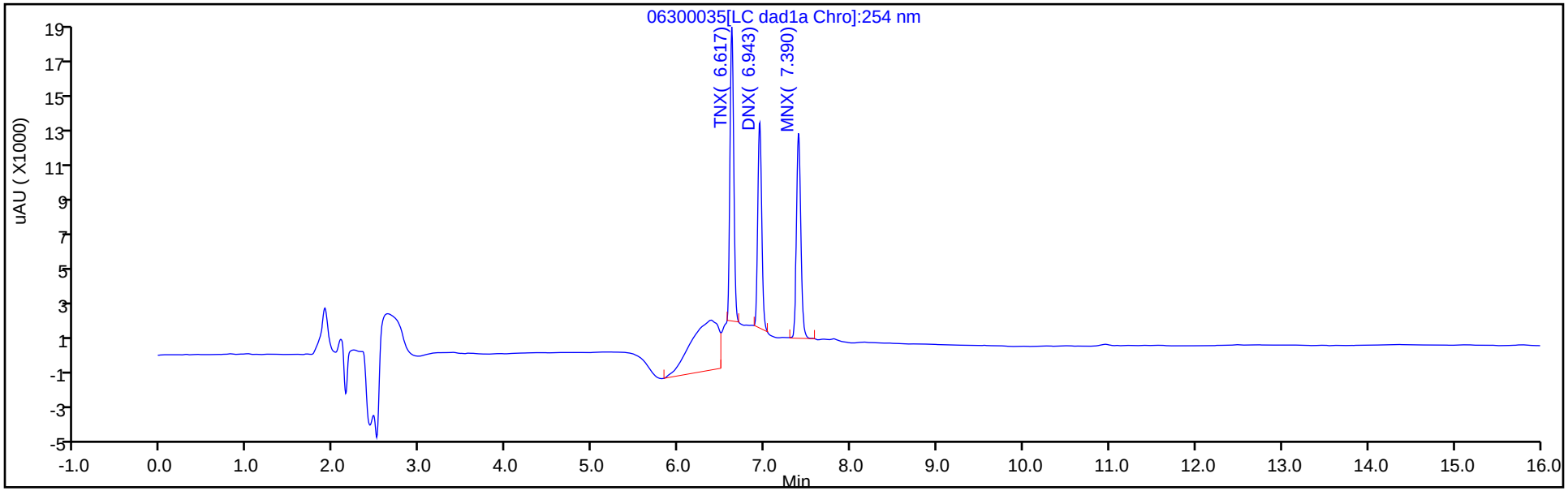
Report Date: 01-Jul-2020 15:06:18 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

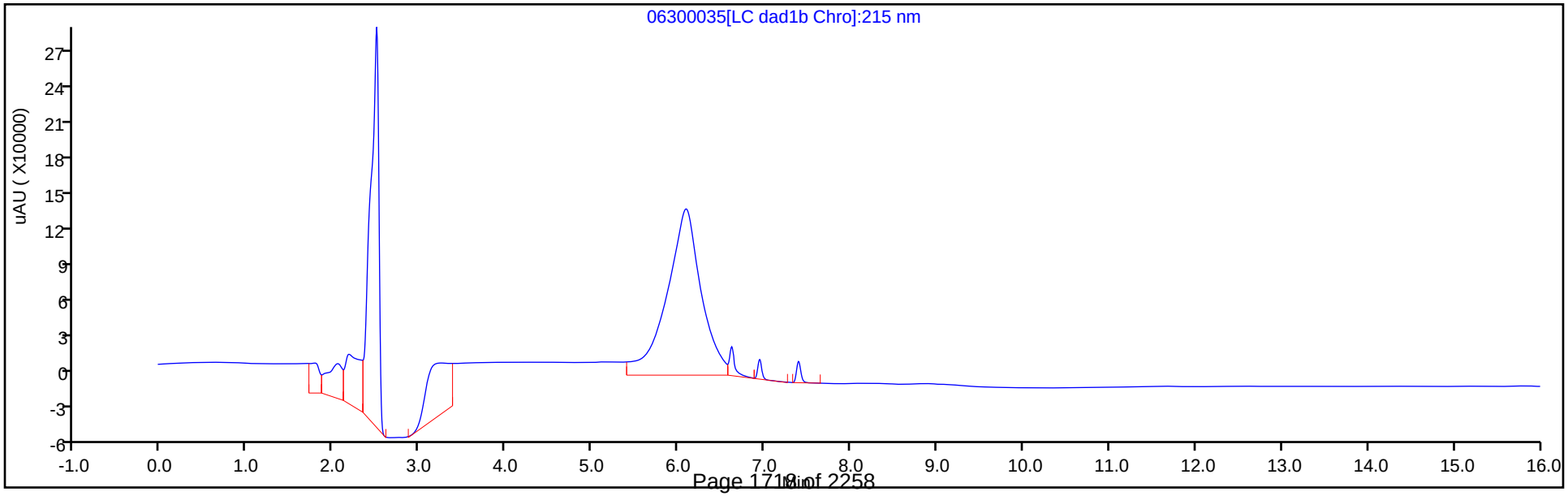
Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300035.d

Injection Date:	01-Jul-2020 05:04:17	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	CCV DMT			Worklist Smp#:	35
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

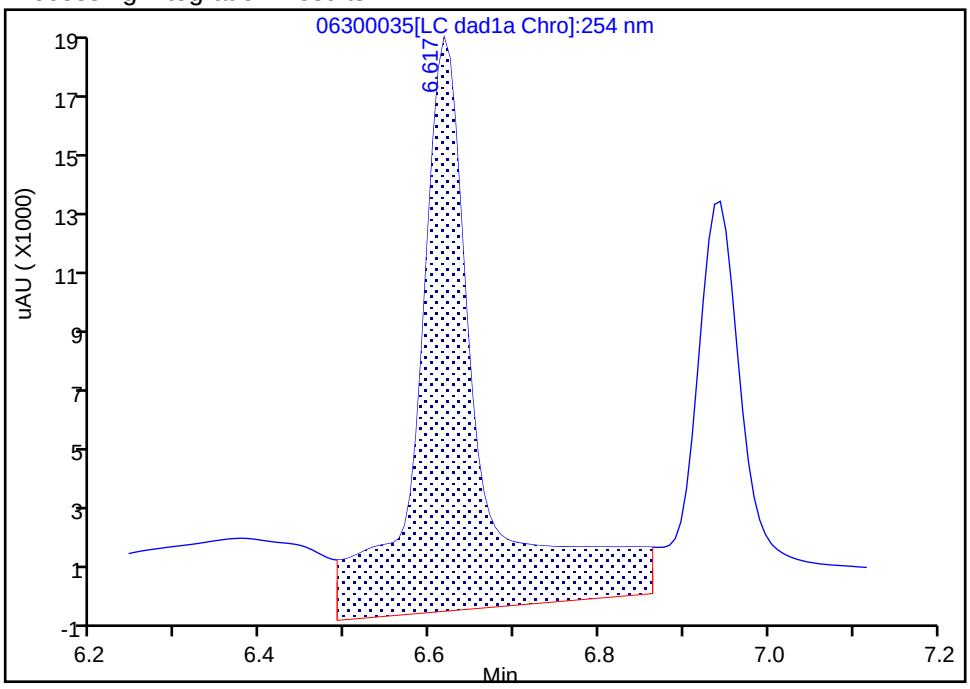
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300035.d				
Injection Date:	01-Jul-2020 05:04:17	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	35
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

2 TNX, CAS: 13980-04-6

Signal: 1

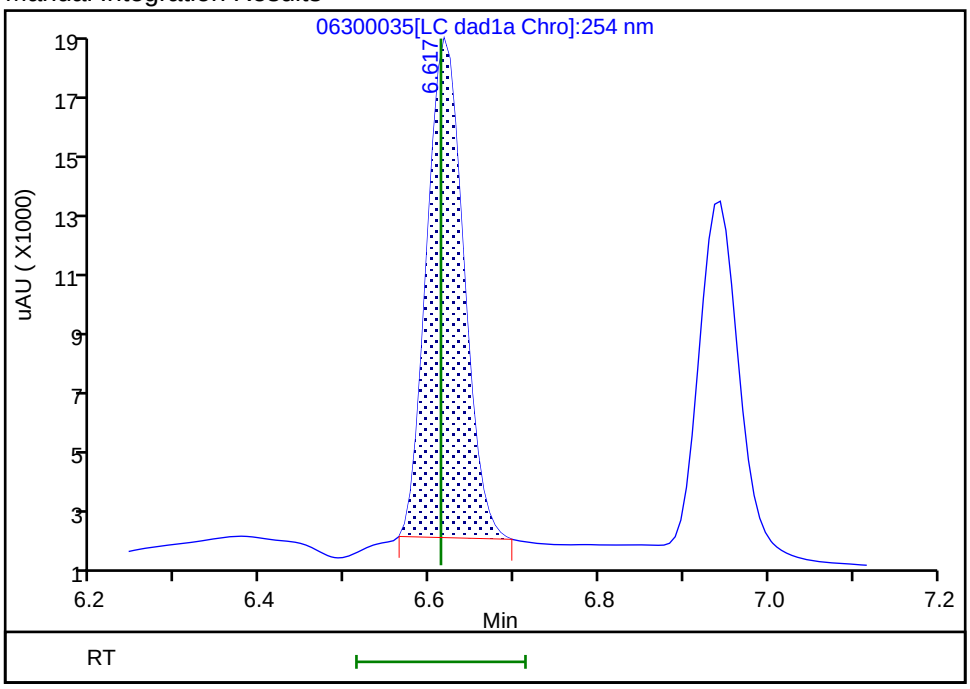
Processing Integration Results

RT: 6.62
Area: 97790
Amount: 0.449385
Amount Units: ug/mL



Manual Integration Results

RT: 6.62
Area: 51036
Amount: 0.234531
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:59:21

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

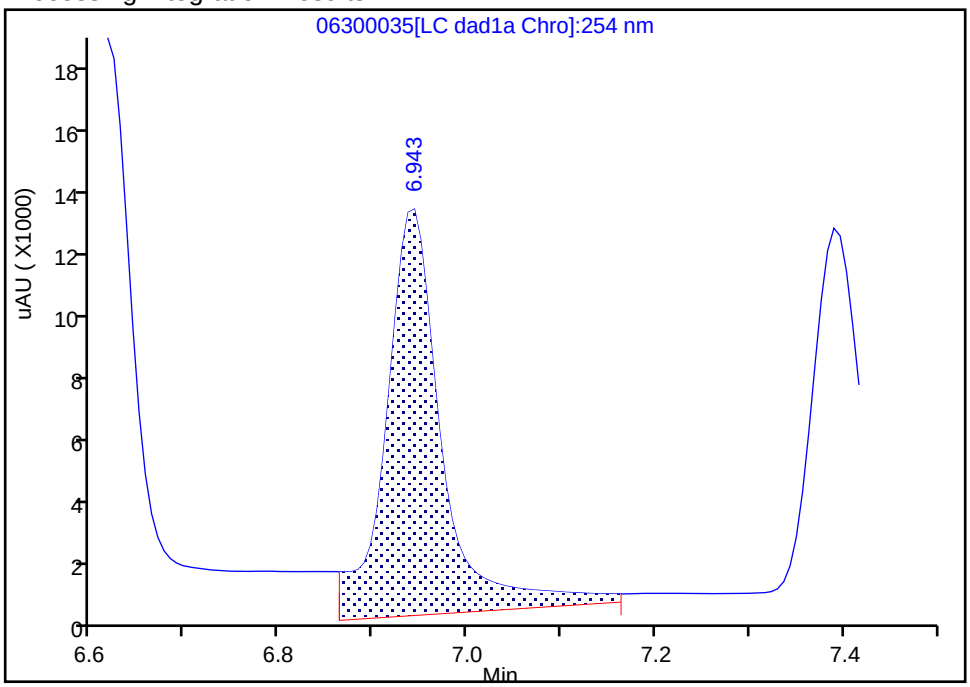
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300035.d				
Injection Date:	01-Jul-2020 05:04:17	Instrument ID:	CHHPLC_X3		
Lims ID:	CCV DMT				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	9	Worklist Smp#:	35
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

5 DNX, CAS: 80251-29-2

Signal: 1

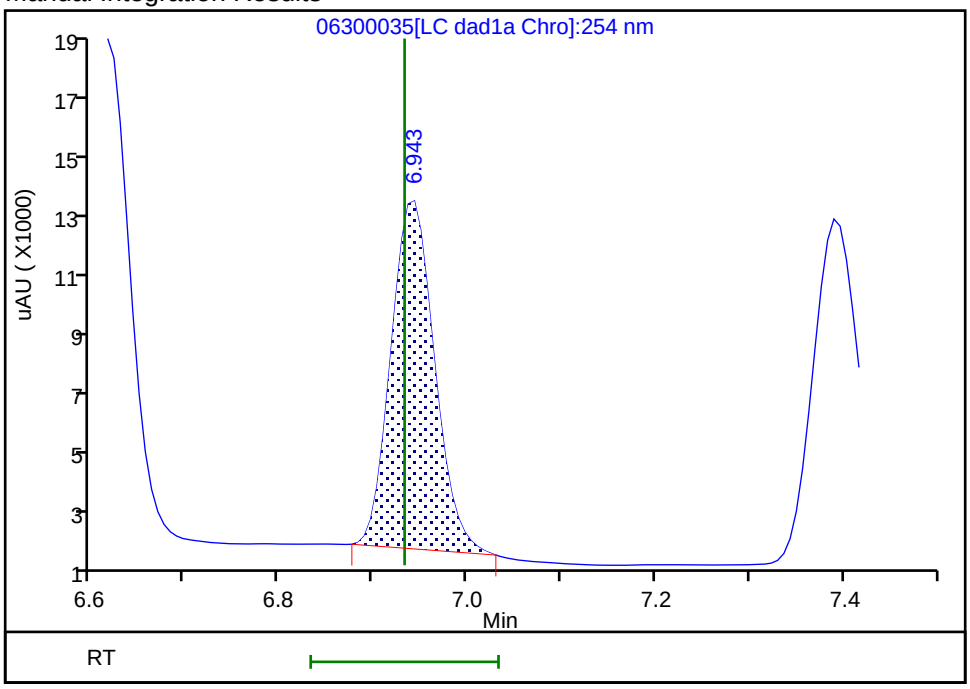
Processing Integration Results

RT: 6.94
Area: 53989
Amount: 0.353035
Amount Units: ug/mL



Manual Integration Results

RT: 6.94
Area: 37848
Amount: 0.247489
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:59:25
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-499406/1-A

Matrix: Water Lab File ID: 06240034.D

Analysis Method: 8330A Date Collected:

Extraction Method: 3535 Date Extracted: 06/19/2020 15:47

Sample wt/vol: 500(mL) Date Analyzed: 06/25/2020 02:37

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499989 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.20	U	0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051
88-72-2	2-Nitrotoluene	0.20	U	0.21	0.20	0.086
99-08-1	3-Nitrotoluene	0.40	U M	0.40	0.40	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058
99-99-0	4-Nitrotoluene	0.40	U	0.41	0.40	0.10
2691-41-0	HMX	0.20	U	0.21	0.20	0.088
5755-27-1	MNX	0.40	U M	2.0	0.40	0.15
98-95-3	Nitrobenzene	0.20	U	0.21	0.20	0.091
121-82-4	RDX	0.20	U	0.21	0.20	0.052
479-45-8	Tetryl	0.10	U	0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	87		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240034.D
Lims ID: MB 280-499406/1-A
Client ID:
Sample Type: MB
Inject. Date: 25-Jun-2020 02:37:32 ALS Bottle#: 34 Worklist Smp#: 34
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: MB 280-499406/1-
Misc. Info.: 280-0092716-034
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:04 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:11:10

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
1	2,6-diamino-4-nitrotoluene	1		6.567				ND	U
2	TNX	1		6.617				ND	
3	HMX	1		6.712				ND	
4	2,4-diamino-6-nitrotoluene	1		6.753				ND	
5	DNX	1		6.937				ND	
6	MNX	1		7.384				ND	U
7	RDX	1		7.785				ND	
8	2,4,6-Trinitrophenol	1		8.085				ND	
$ 9	1,2-Dinitrobenzene	1	8.739	8.738	0.001	24026	0.2000	0.1738	
10	1,3,5-Trinitrobenzene	1		8.918				ND	
11	1,3-Dinitrobenzene	1		9.565				ND	
12	Nitrobenzene	1		9.945				ND	
13	3,5-Dinitroaniline	1		10.207				ND	
14	Tetryl	1		10.252				ND	
15	Nitroglycerin	2		10.765				ND	
16	2,4,6-Trinitrotoluene	1		11.225				ND	
17	4-Amino-2,6-dinitrotoluene	1		11.385				ND	
18	2-Amino-4,6-dinitrotoluene	1		11.678				ND	
19	2,6-Dinitrotoluene	1		11.818				ND	
20	2,4-Dinitrotoluene	1		12.018				ND	
21	o-Nitrotoluene	1		12.845				ND	
22	p-Nitrotoluene	1		13.272				ND	
23	m-Nitrotoluene	1		13.865				ND	U
24	PETN	2		14.958				ND	
25	Ammonium Picrate	1		0.000				ND	
26	Triamine Trinitrobenzene	1		0.000				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

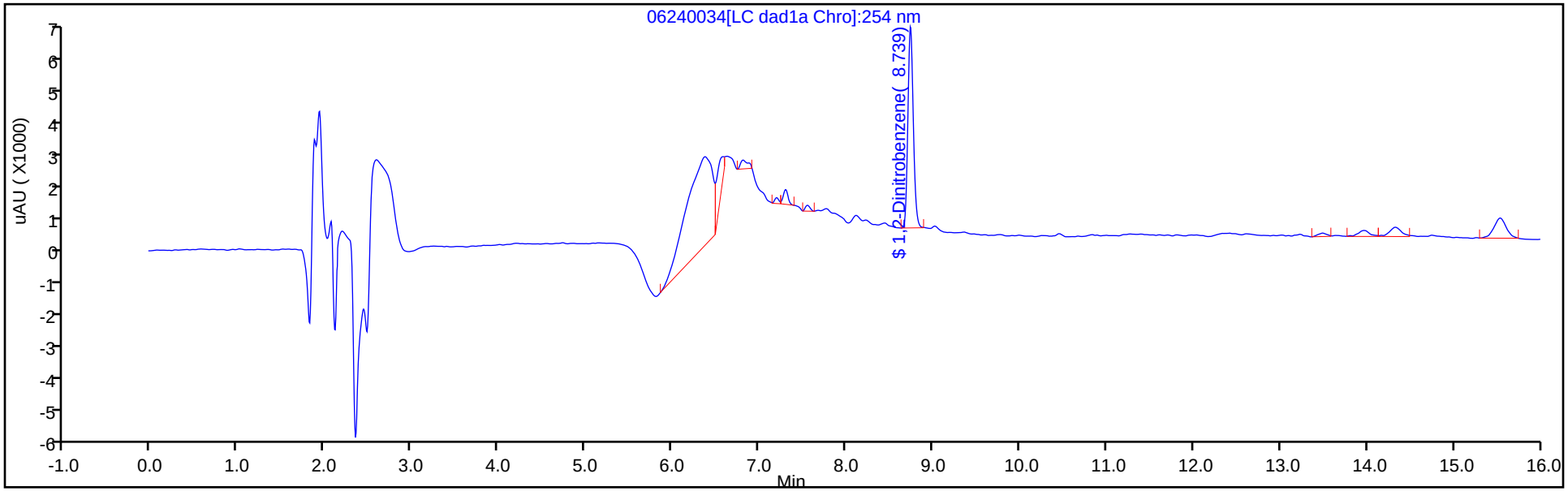
Report Date: 25-Jun-2020 21:10:05 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

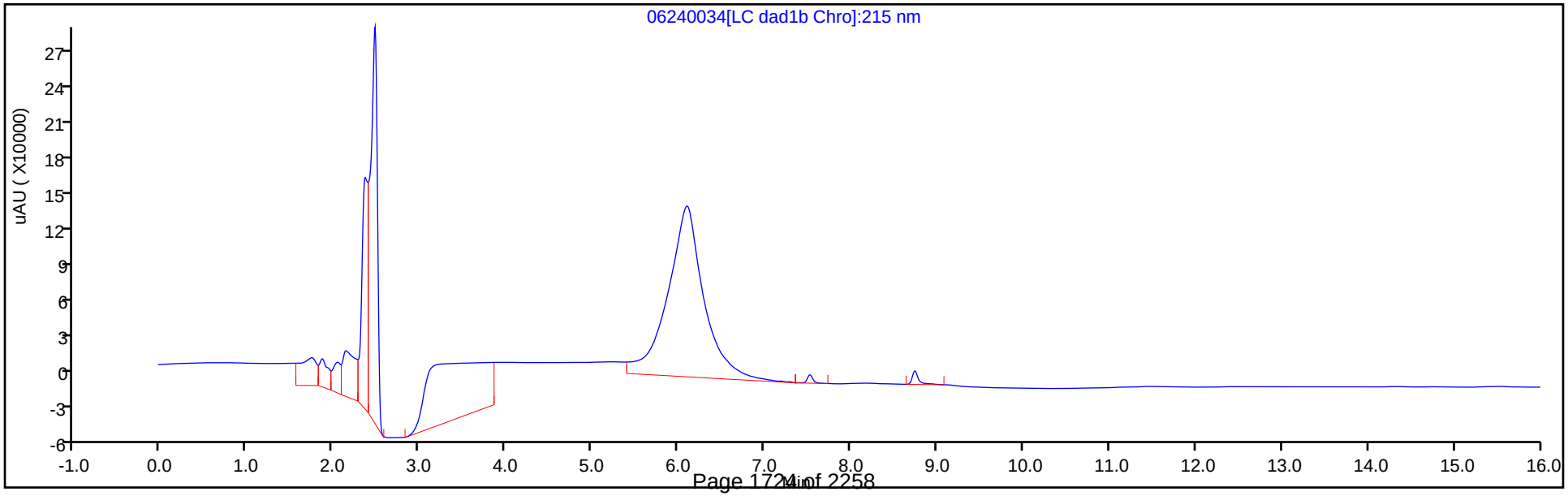
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240034.d

Injection Date:	25-Jun-2020 02:37:32	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	MB 280-499406/1-A			Worklist Smp#:	34
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240034.D
Lims ID: MB 280-499406/1-A
Client ID:
Sample Type: MB
Inject. Date: 25-Jun-2020 02:37:32 ALS Bottle#: 34 Worklist Smp#: 34
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: MB 280-499406/1-
Misc. Info.: 280-0092716-034
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:04 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:11:10

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1738	86.92

User Disabled Compound Report

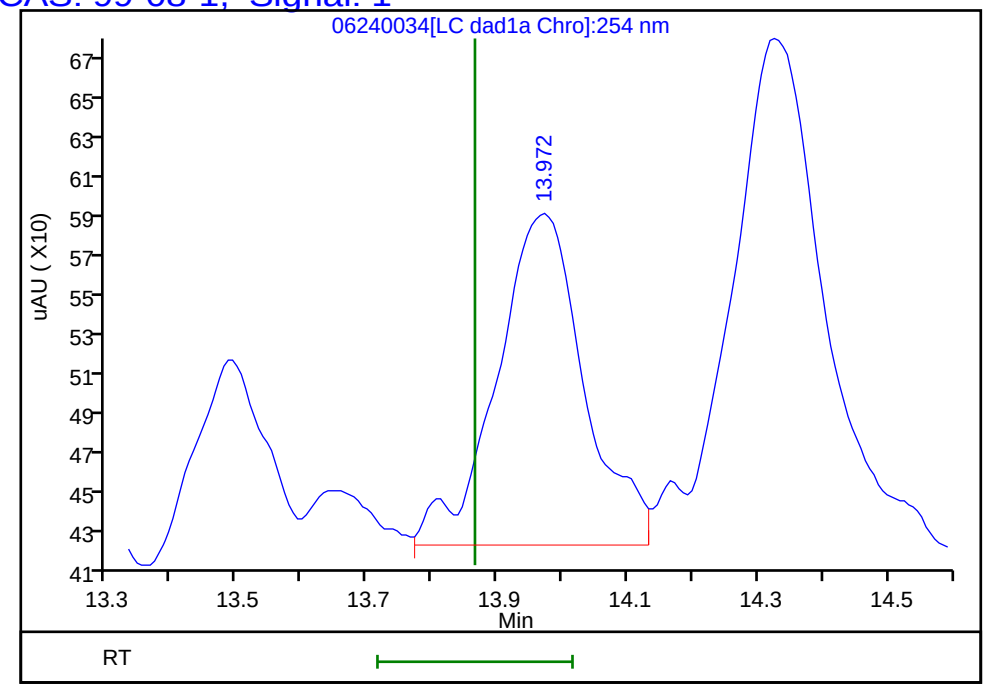
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240034.d
Injection Date: 25-Jun-2020 02:37:32 Instrument ID: CHHPLC_X3
Lims ID: MB 280-499406/1-A
Client ID:
Operator ID: JZ ALS Bottle#: 34 Worklist Smp#: 34
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

23 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 13.97
Response: 1542
Amount: 0.010781



Reviewer: zhangji, 25-Jun-2020 16:11:10
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

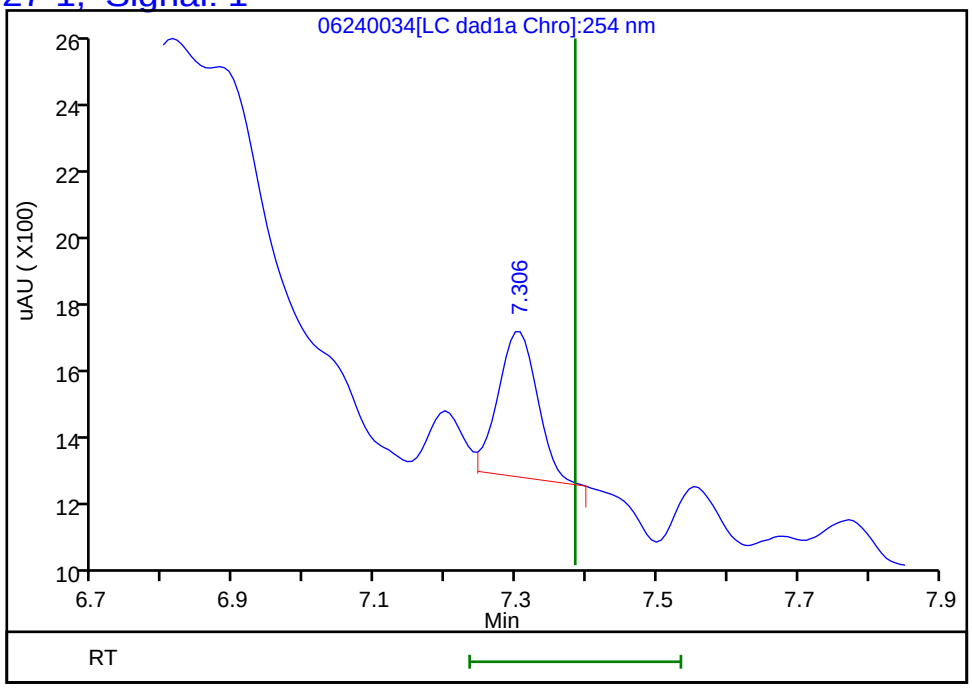
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240034.d
Injection Date: 25-Jun-2020 02:37:32 Instrument ID: CHHPLC_X3
Lims ID: MB 280-499406/1-A
Client ID:
Operator ID: JZ ALS Bottle#: 34 Worklist Smp#: 34
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.31
Response: 1560
Amount: 0.009840



Reviewer: zhangji, 25-Jun-2020 16:11:10
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-499527/1-A

Matrix: Water Lab File ID: 06240010.D

Analysis Method: 8330A Date Collected:

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 500(mL) Date Analyzed: 06/24/2020 17:25

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499988 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.20	U M	0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051
88-72-2	2-Nitrotoluene	0.20	U	0.21	0.20	0.086
99-08-1	3-Nitrotoluene	0.40	U M	0.40	0.40	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058
99-99-0	4-Nitrotoluene	0.40	U	0.41	0.40	0.10
2691-41-0	HMX	0.20	U	0.21	0.20	0.088
5755-27-1	MNX	0.40	U M	2.0	0.40	0.15
98-95-3	Nitrobenzene	0.20	U	0.21	0.20	0.091
121-82-4	RDX	0.20	U	0.21	0.20	0.052
479-45-8	Tetryl	0.10	U	0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	104		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240010.D
Lims ID: MB 280-499527/1-A
Client ID:
Sample Type: MB
Inject. Date: 24-Jun-2020 17:25:04 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: MB 280-499527/1-
Misc. Info.: 280-0092716-010
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:07 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 24-Jun-2020 17:58:58

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
1	2,6-diamino-4-nitrotoluene	1		6.567				ND	
2	TNX	1		6.617				ND	U
3	HMX	1		6.712				ND	
4	2,4-diamino-6-nitrotoluene	1		6.753				ND	U
5	DNX	1		6.937				ND	
6	MNX	1		7.384				ND	U
7	RDX	1		7.785				ND	
8	2,4,6-Trinitrophenol	1		8.085				ND	
$ 9	1,2-Dinitrobenzene	1	8.752	8.738	0.014	28630	0.2000	0.2071	
10	1,3,5-Trinitrobenzene	1		8.918				ND	U
11	1,3-Dinitrobenzene	1		9.565				ND	
12	Nitrobenzene	1		9.945				ND	
13	3,5-Dinitroaniline	1		10.207				ND	
14	Tetryl	1		10.252				ND	
15	Nitroglycerin	2		10.765				ND	
16	2,4,6-Trinitrotoluene	1		11.225				ND	
17	4-Amino-2,6-dinitrotoluene	1		11.385				ND	
18	2-Amino-4,6-dinitrotoluene	1		11.678				ND	
19	2,6-Dinitrotoluene	1		11.818				ND	
20	2,4-Dinitrotoluene	1		12.018				ND	
21	o-Nitrotoluene	1		12.845				ND	
22	p-Nitrotoluene	1		13.272				ND	
23	m-Nitrotoluene	1		13.865				ND	U
24	PETN	2		14.958				ND	
25	Ammonium Picrate	1		0.000				ND	
26	Triamine Trinitrobenzene	1		0.000				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

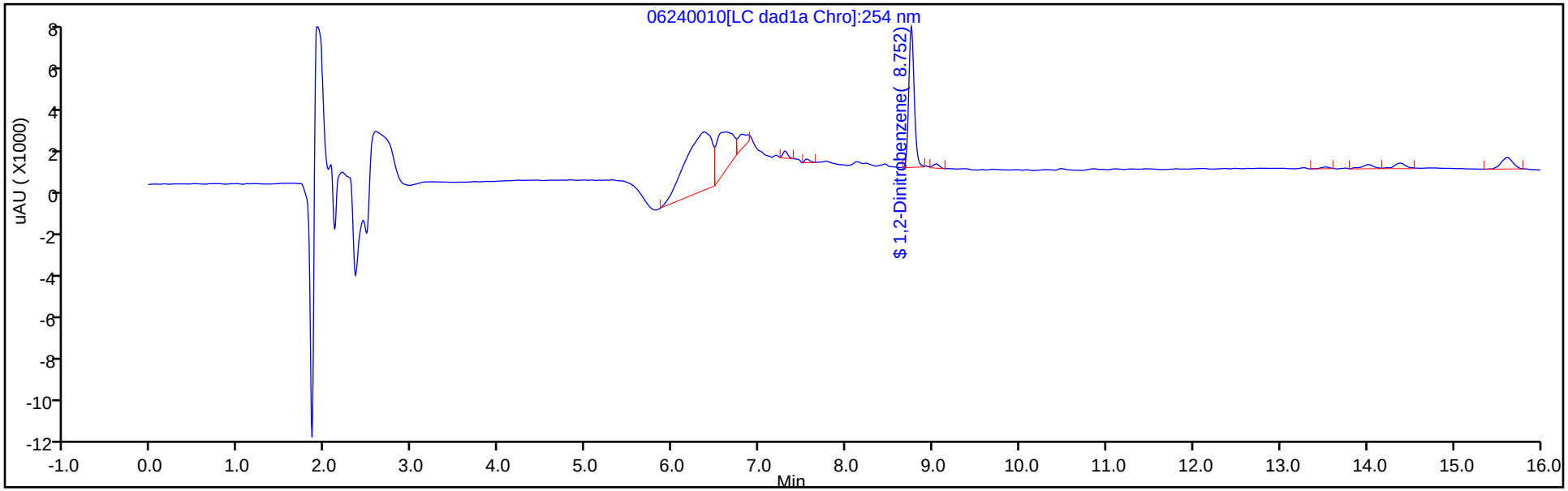
Report Date: 25-Jun-2020 21:10:08 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

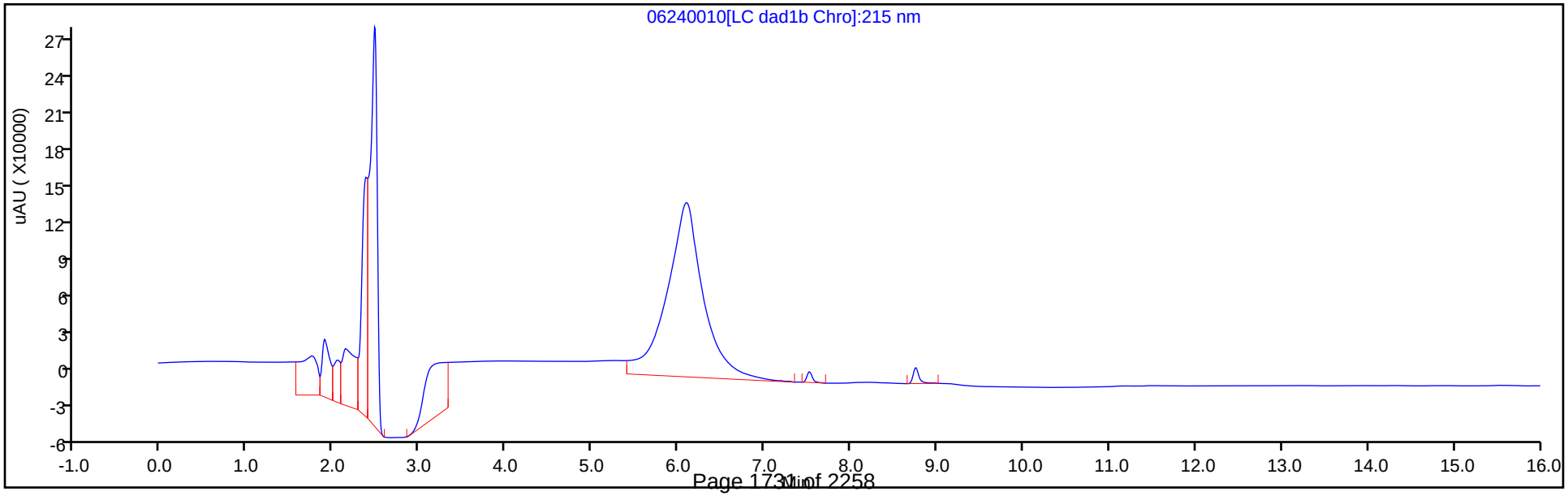
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240010.d

Injection Date:	24-Jun-2020 17:25:04	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	MB 280-499527/1-A			Worklist Smp#:	10
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240010.D
Lims ID: MB 280-499527/1-A
Client ID:
Sample Type: MB
Inject. Date: 24-Jun-2020 17:25:04 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: MB 280-499527/1-
Misc. Info.: 280-0092716-010
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:07 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 24-Jun-2020 17:58:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.2071	103.57

User Disabled Compound Report

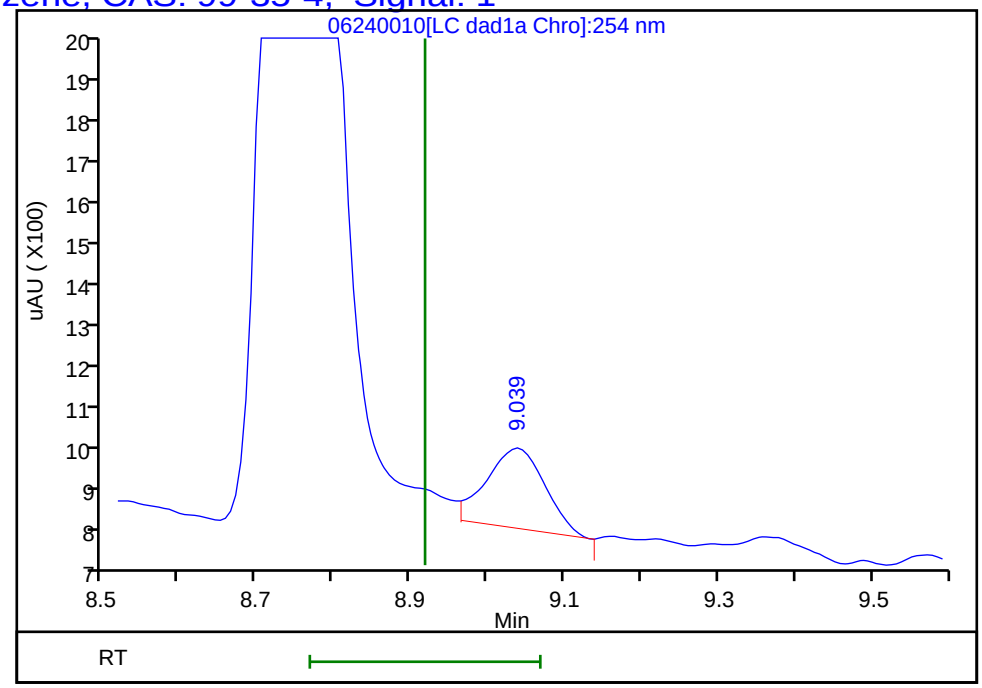
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240010.d
Injection Date: 24-Jun-2020 17:25:04 Instrument ID: CHHPLC_X3
Lims ID: MB 280-499527/1-A
Client ID:
Operator ID: JZ ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

10 1,3,5-Trinitrobenzene, CAS: 99-35-4, Signal: 1

RT: 9.04
Response: 1021
Amount: 0.004433



Reviewer: zhangji, 24-Jun-2020 17:58:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

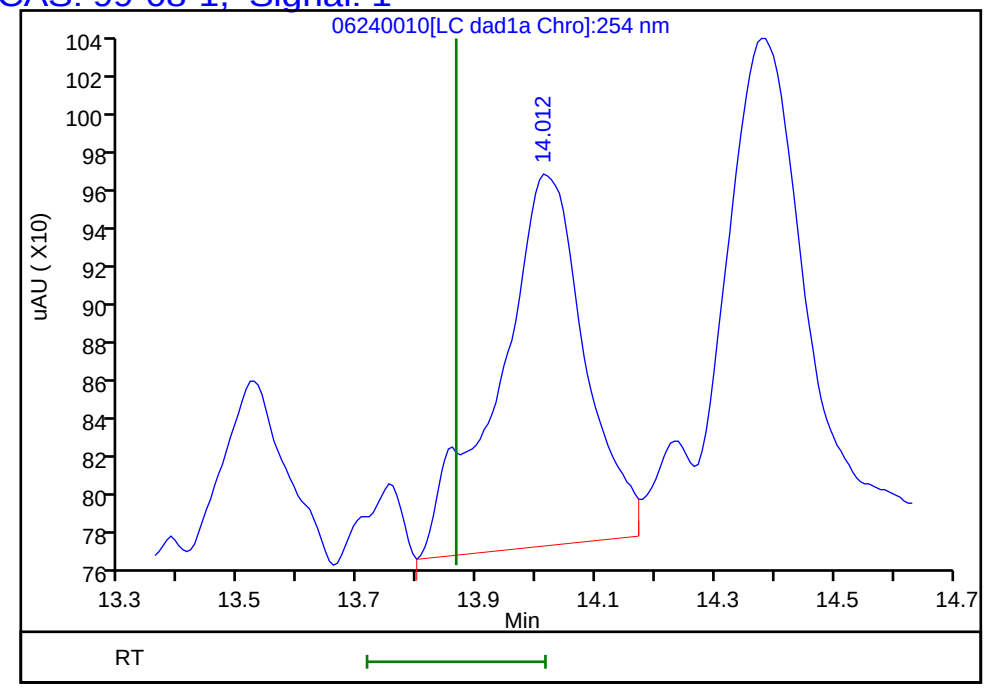
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240010.d
Injection Date: 24-Jun-2020 17:25:04 Instrument ID: CHHPLC_X3
Lims ID: MB 280-499527/1-A
Client ID:
Operator ID: JZ ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

23 m-Nitrotoluene, CAS: 99-08-1, Signal: 1

RT: 14.01
Response: 1924
Amount: 0.013452



Reviewer: zhangji, 24-Jun-2020 17:58:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

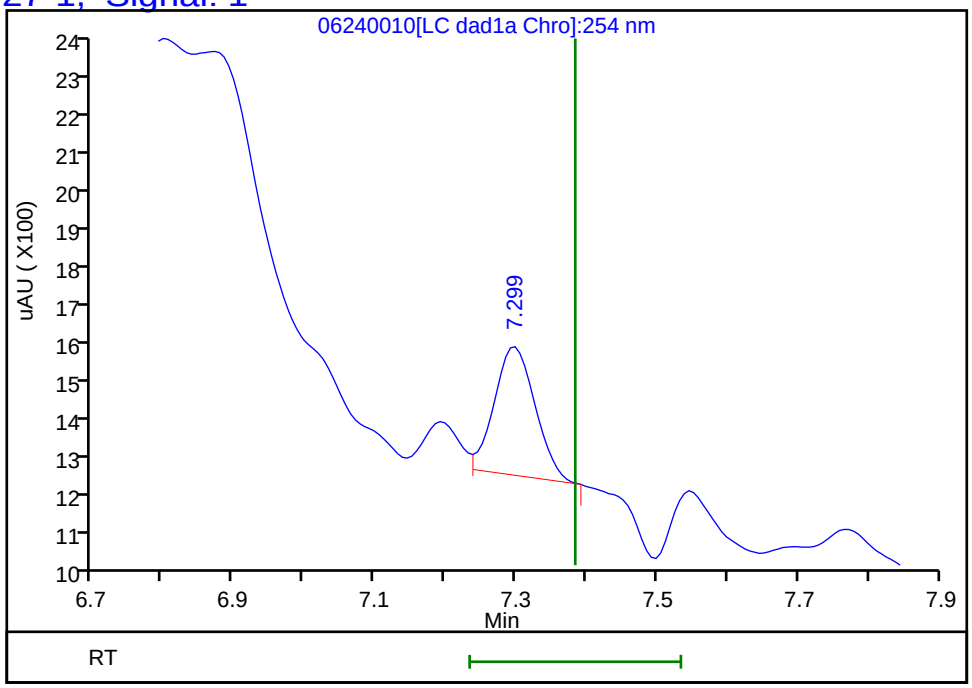
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240010.d
Injection Date: 24-Jun-2020 17:25:04 Instrument ID: CHHPLC_X3
Lims ID: MB 280-499527/1-A
Client ID:
Operator ID: JZ ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.30
Response: 1316
Amount: 0.008301



Reviewer: zhangji, 24-Jun-2020 17:58:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-500616/1-A

Matrix: Water Lab File ID: 06300024.D

Analysis Method: 8330A Date Collected:

Extraction Method: 3535 Date Extracted: 06/30/2020 12:07

Sample wt/vol: 500(mL) Date Analyzed: 07/01/2020 00:51

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 500691 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.20	U	0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	0.10	U	0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	0.10	U	0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	0.080	U	0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	0.080	U	0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	0.10	U	0.11	0.10	0.051
88-72-2	2-Nitrotoluene	0.20	U	0.21	0.20	0.086
99-08-1	3-Nitrotoluene	0.40	U	0.40	0.40	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	0.12	U	0.15	0.12	0.058
99-99-0	4-Nitrotoluene	0.40	U	0.41	0.40	0.10
2691-41-0	HMX	0.20	U	0.21	0.20	0.088
5755-27-1	MNX	0.40	U M	2.0	0.40	0.15
98-95-3	Nitrobenzene	0.20	U	0.21	0.20	0.091
121-82-4	RDX	0.20	U	0.21	0.20	0.052
479-45-8	Tetryl	0.10	U	0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	101		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300024.D
Lims ID: MB 280-500616/1-A
Client ID:
Sample Type: MB
Inject. Date: 01-Jul-2020 00:51:05 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: MB 280-500616/1-
Misc. Info.: 280-0092909-024
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 01-Jul-2020 15:06:12 Calib Date: 26-Jun-2020 01:16:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1062

First Level Reviewer: zhangji Date: 01-Jul-2020 14:17:27

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
26 Triamine Trinitrobenzene	1		2.513				ND	
1 2,6-diamino-4-nitrotoluene	1		6.565				ND	U
2 TNX	1		6.613				ND	
3 HMX	1		6.710				ND	
4 2,4-diamino-6-nitrotoluene	1		6.752				ND	
5 DNX	1		6.933				ND	
6 MNX	1		7.386				ND	U
7 RDX	1		7.783				ND	
8 2,4,6-Trinitrophenol	1		8.083				ND	
$ 9 1,2-Dinitrobenzene	1	8.767	8.757	0.010	27787	0.2000	0.2010	
10 1,3,5-Trinitrobenzene	1		8.930				ND	
11 1,3-Dinitrobenzene	1		9.583				ND	
12 Nitrobenzene	1		9.963				ND	
13 3,5-Dinitroaniline	1		10.205				ND	
14 Tetryl	1		10.283				ND	
15 Nitroglycerin	2		10.790				ND	
16 2,4,6-Trinitrotoluene	1		11.250				ND	
17 4-Amino-2,6-dinitrotoluene	1		11.423				ND	
18 2-Amino-4,6-dinitrotoluene	1		11.710				ND	
19 2,6-Dinitrotoluene	1		11.850				ND	
20 2,4-Dinitrotoluene	1		12.050				ND	
21 o-Nitrotoluene	1		12.883				ND	
22 p-Nitrotoluene	1		13.323				ND	
23 m-Nitrotoluene	1		13.923				ND	
24 PETN	2		15.030				ND	
25 Ammonium Picrate	1		0.000				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

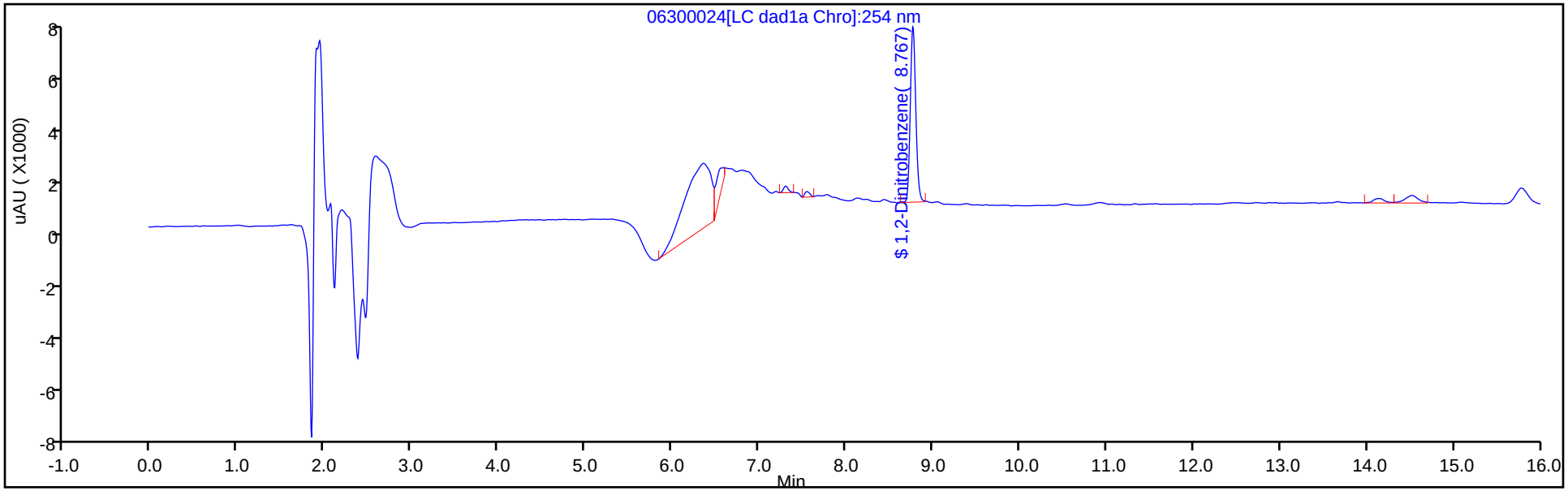
Report Date: 01-Jul-2020 15:06:13 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

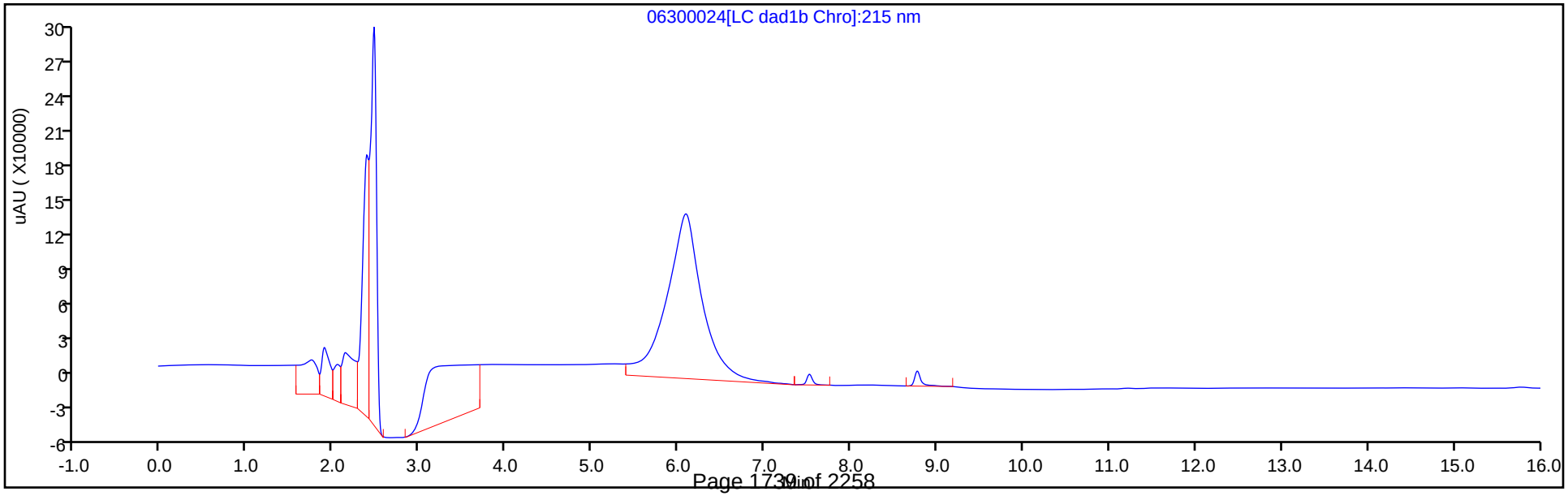
Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300024.d

Injection Date:	01-Jul-2020 00:51:05	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	MB 280-500616/1-A			Worklist Smp#:	24
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300024.D				
Lims ID:	MB 280-500616/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	01-Jul-2020 00:51:05	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	MB 280-500616/1-				
Misc. Info.:	280-0092909-024				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	01-Jul-2020 15:06:12	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1062				

First Level Reviewer: zhangji Date: 01-Jul-2020 14:17:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.2010	100.52

User Disabled Compound Report

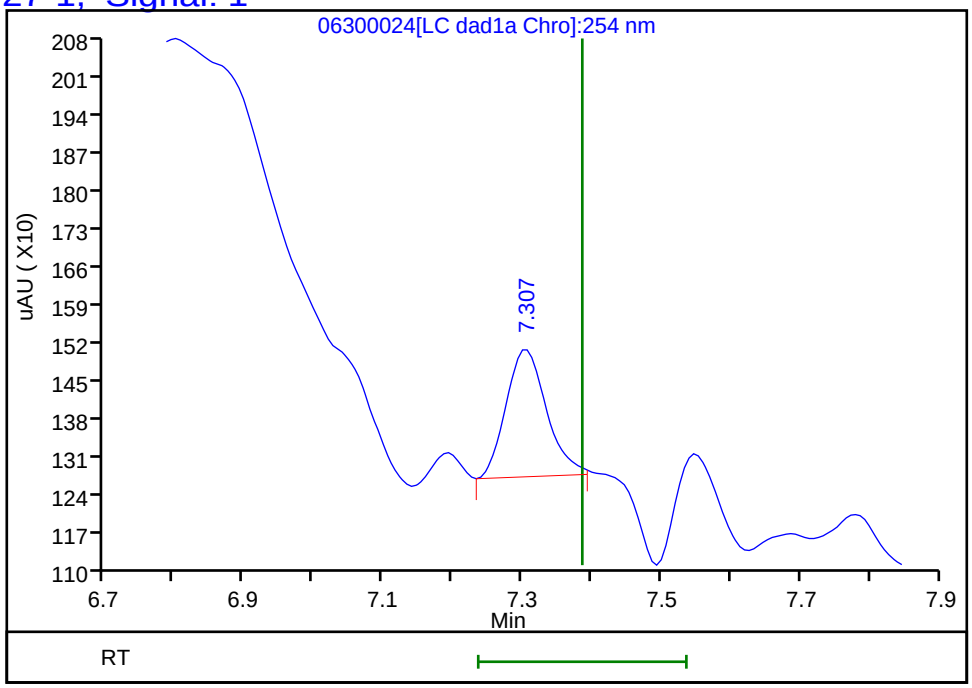
Eurofins TestAmerica, Denver

Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300024.d
Injection Date: 01-Jul-2020 00:51:05 Instrument ID: CHHPLC_X3
Lims ID: MB 280-500616/1-A
Client ID:
Operator ID: JZ ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

6 MNX, CAS: 5755-27-1, Signal: 1

RT: 7.31
Response: 950
Amount: 0.005992



Reviewer: zhangji, 01-Jul-2020 14:17:27
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-499406/2-A

Matrix: Water Lab File ID: 06260014.D

Analysis Method: 8330A Date Collected:

Extraction Method: 3535 Date Extracted: 06/19/2020 15:47

Sample wt/vol: 500(mL) Date Analyzed: 06/26/2020 19:53

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 500316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	1.92	Q	0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	1.73	Q	0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	1.94	Q	0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	1.59	Q	0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	1.64	Q	0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	1.52	Q	0.11	0.10	0.051
88-72-2	2-Nitrotoluene	1.21	Q	0.21	0.20	0.086
99-08-1	3-Nitrotoluene	1.35	Q	0.40	0.40	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.36	Q	0.15	0.12	0.058
99-99-0	4-Nitrotoluene	1.36	Q	0.41	0.40	0.10
2691-41-0	HMX	2.19	Q	0.21	0.20	0.088
98-95-3	Nitrobenzene	1.45	Q	0.21	0.20	0.091
121-82-4	RDX	1.83	Q	0.21	0.20	0.052
479-45-8	Tetryl	1.79	Q	0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	79	Q	83-119

Report Date: 27-Jun-2020 13:26:14 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\06260014.D
Lims ID: LCS 280-499406/2-A
Client ID:
Sample Type: LCS
Inject. Date: 26-Jun-2020 19:53:26 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCS 280-499406/2
Misc. Info.: 280-0092794-014
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 13:26:12 Calib Date: 26-Jun-2020 01:16:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 26-Jun-2020 20:33:59

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.713	6.710	0.003	18836	0.2000	0.2191	
7 RDX	1	7.793	7.790	0.003	21349	0.2000	0.1831	
8 2,4,6-Trinitrophenol	1	8.093	8.096	-0.003	17640	0.2000	0.2072	
$ 9 1,2-Dinitrobenzene	1	8.759	8.756	0.003	21944	0.2000	0.1588	
10 1,3,5-Trinitrobenzene	1	8.933	8.930	0.003	44192	0.2000	0.1919	
11 1,3-Dinitrobenzene	1	9.586	9.583	0.003	52953	0.2000	0.1727	
12 Nitrobenzene	1	9.966	9.963	0.003	29002	0.2000	0.1447	
14 Tetryl	1	10.279	10.283	-0.004	31737	0.2000	0.1793	
15 Nitroglycerin	2	10.792	10.790	0.002	127895	2.00	1.88	
16 2,4,6-Trinitrotoluene	1	11.252	11.250	0.002	39533	0.2000	0.1938	
17 4-Amino-2,6-dinitrotoluene	1	11.426	11.423	0.003	23079	0.2000	0.1359	
18 2-Amino-4,6-dinitrotoluene	1	11.719	11.716	0.003	30927	0.2000	0.1525	
19 2,6-Dinitrotoluene	1	11.852	11.850	0.002	24584	0.2000	0.1645	
20 2,4-Dinitrotoluene	1	12.052	12.050	0.002	48394	0.2000	0.1594	
21 o-Nitrotoluene	1	12.879	12.870	0.009	16289	0.2000	0.1206	
22 p-Nitrotoluene	1	13.319	13.310	0.009	15406	0.2000	0.1363	
23 m-Nitrotoluene	1	13.912	13.896	0.016	19290	0.2000	0.1349	
24 PETN	2	15.006	14.996	0.010	155048	2.00	1.97	

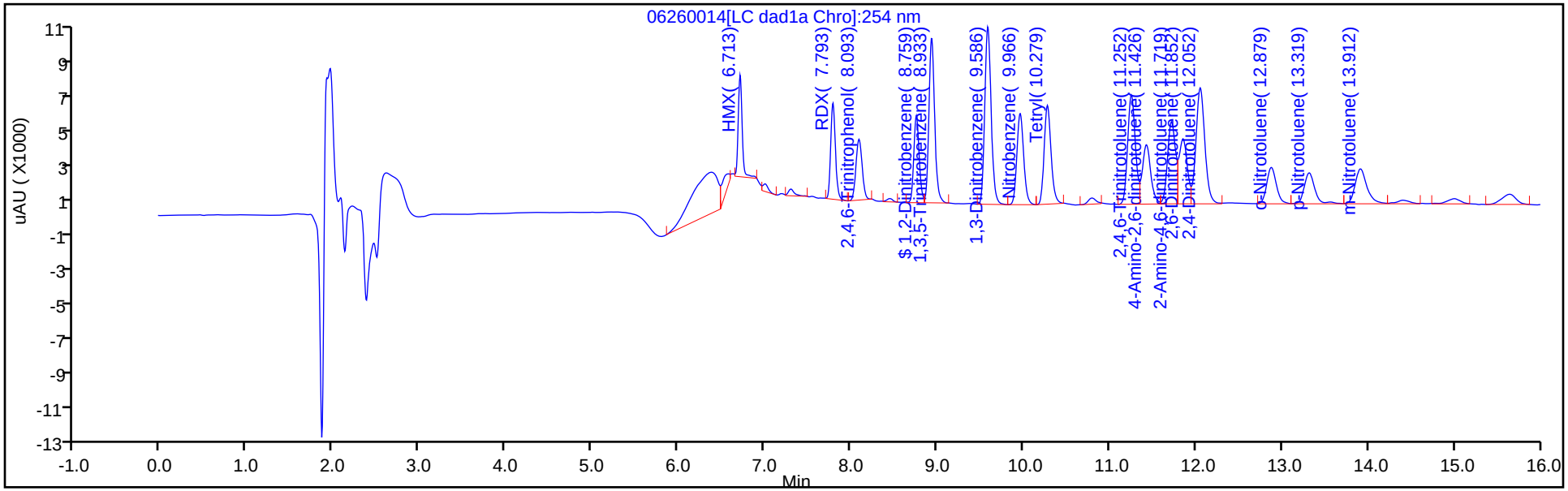
Report Date: 27-Jun-2020 13:26:14 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

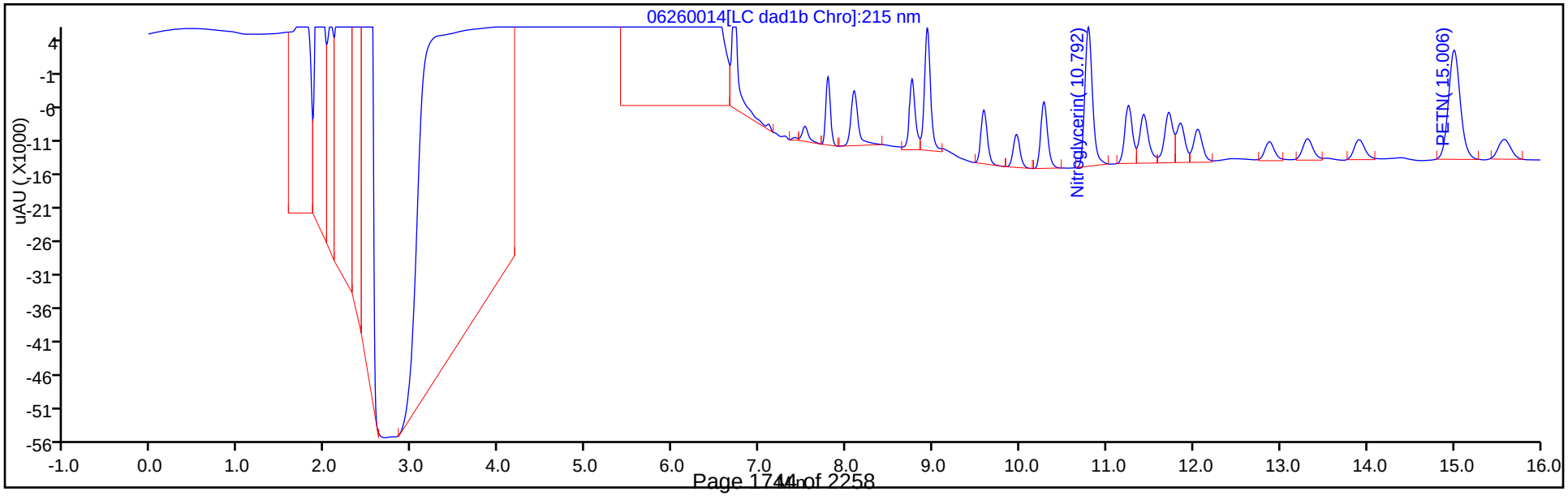
Data File: \\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\06260014.d

Injection Date:	26-Jun-2020 19:53:26	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCS 280-499406/2-A			Worklist Smp#:	14
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\06260014.D				
Lims ID:	LCS 280-499406/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	26-Jun-2020 19:53:26	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 280-499406/2				
Misc. Info.:	280-0092794-014				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 13:26:12	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1036				
First Level Reviewer: zhangji		Date:	26-Jun-2020 20:33:59		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1588	79.39

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-499406/4-A

Matrix: Water Lab File ID: 06240037.D

Analysis Method: 8330A Date Collected:

Extraction Method: 3535 Date Extracted: 06/19/2020 15:47

Sample wt/vol: 500(mL) Date Analyzed: 06/25/2020 03:46

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499989 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
5755-27-1	MNX	1.63	J	2.0	0.40	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	91		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240037.D
Lims ID: LCS 280-499406/4-A
Client ID:
Sample Type: LCS
Inject. Date: 25-Jun-2020 03:46:29 ALS Bottle#: 37 Worklist Smp#: 37
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCS 280-499406/4
Misc. Info.: 280-0092716-037
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:09:46 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:12:17

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.622	6.617	0.005	38069	0.2002	0.1749	M
5 DNX	1	6.942	6.937	0.005	28484	0.2002	0.1863	M
6 MNX	1	7.389	7.384	0.005	25802	0.2334	0.1627	
$ 9 1,2-Dinitrobenzene	1	8.749	8.738	0.011	25061	0.2000	0.1813	

QC Flag Legend

Review Flags
M - Manually Integrated

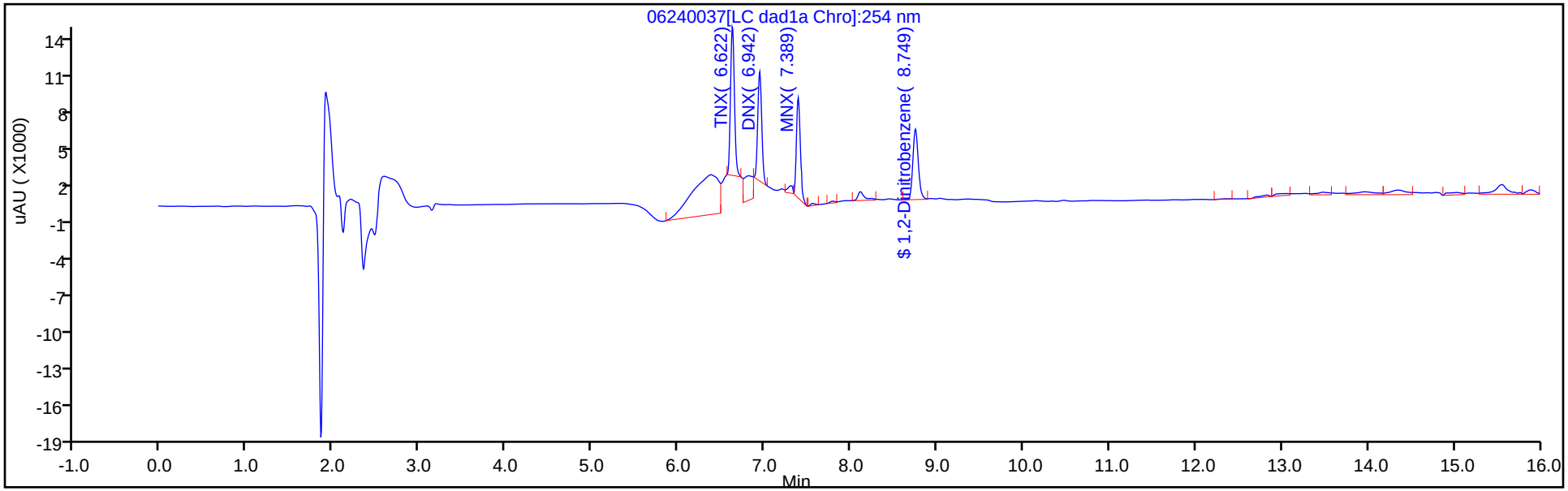
Report Date: 25-Jun-2020 21:09:49 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

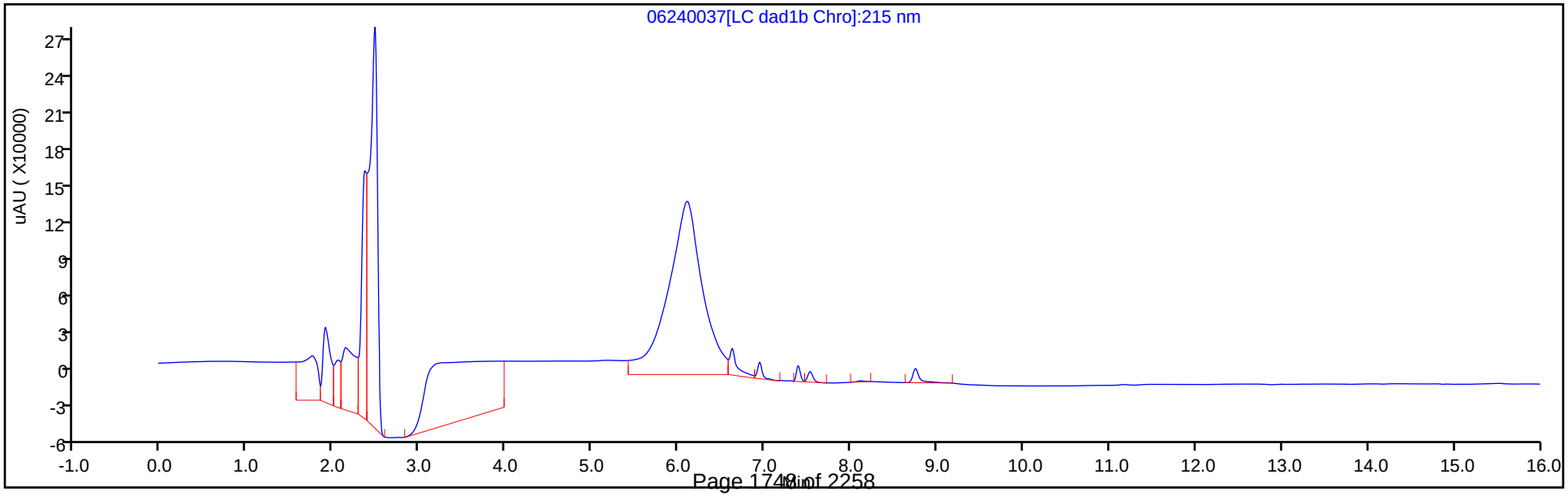
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240037.d

Injection Date:	25-Jun-2020 03:46:29	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCS 280-499406/4-A			Worklist Smp#:	37
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240037.D
Lims ID: LCS 280-499406/4-A
Client ID:
Sample Type: LCS
Inject. Date: 25-Jun-2020 03:46:29 ALS Bottle#: 37 Worklist Smp#: 37
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCS 280-499406/4
Misc. Info.: 280-0092716-037
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:09:46 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:12:17

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1813	90.66

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-499527/2-A

Matrix: Water Lab File ID: 06240011.D

Analysis Method: 8330A Date Collected:

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 500(mL) Date Analyzed: 06/24/2020 17:48

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499988 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	2.40		0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	2.26		0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	2.34		0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	2.11		0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	2.18		0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	2.02		0.11	0.10	0.051
88-72-2	2-Nitrotoluene	1.68		0.21	0.20	0.086
99-08-1	3-Nitrotoluene	1.85	M	0.40	0.40	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.82		0.15	0.12	0.058
99-99-0	4-Nitrotoluene	1.88		0.41	0.40	0.10
2691-41-0	HMX	2.16	M	0.21	0.20	0.088
98-95-3	Nitrobenzene	1.97		0.21	0.20	0.091
121-82-4	RDX	2.10		0.21	0.20	0.052
479-45-8	Tetryl	2.11		0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	102		83-119

Report Date: 25-Jun-2020 21:10:09 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240011.D
Lims ID: LCS 280-499527/2-A
Client ID:
Sample Type: LCS
Inject. Date: 24-Jun-2020 17:48:06 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCS 280-499527/2
Misc. Info.: 280-0092716-011
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:07 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 24-Jun-2020 18:27:36

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3	HMX	1	6.713	6.712	0.001	18556	0.2000	0.2159	M
7	RDX	1	7.780	7.785	-0.005	24448	0.2000	0.2097	
8	2,4,6-Trinitrophenol	1	8.066	8.085	-0.019	19561	0.2000	0.2298	
$ 9	1,2-Dinitrobenzene	1	8.740	8.738	0.002	28276	0.2000	0.2046	
10	1,3,5-Trinitrobenzene	1	8.920	8.918	0.002	55247	0.2000	0.2399	
11	1,3-Dinitrobenzene	1	9.566	9.565	0.001	69305	0.2000	0.2260	
12	Nitrobenzene	1	9.940	9.945	-0.005	39557	0.2000	0.1974	
14	Tetryl	1	10.246	10.252	-0.006	37381	0.2000	0.2112	
15	Nitroglycerin	2	10.760	10.765	-0.005	145985	2.00	2.14	
16	2,4,6-Trinitrotoluene	1	11.220	11.225	-0.005	47717	0.2000	0.2339	
17	4-Amino-2,6-dinitrotoluene	1	11.380	11.385	-0.005	31293	0.2000	0.1820	
18	2-Amino-4,6-dinitrotoluene	1	11.673	11.678	-0.005	41033	0.2000	0.2023	
19	2,6-Dinitrotoluene	1	11.813	11.818	-0.005	32553	0.2000	0.2178	
20	2,4-Dinitrotoluene	1	12.013	12.018	-0.005	63951	0.2000	0.2107	
21	o-Nitrotoluene	1	12.833	12.845	-0.012	22656	0.2000	0.1678	
22	p-Nitrotoluene	1	13.266	13.272	-0.006	21283	0.2000	0.1883	
23	m-Nitrotoluene	1	13.860	13.865	-0.005	26497	0.2000	0.1853	M
24	PETN	2	14.946	14.958	-0.012	162350	2.00	2.07	M

QC Flag Legend

Review Flags
M - Manually Integrated

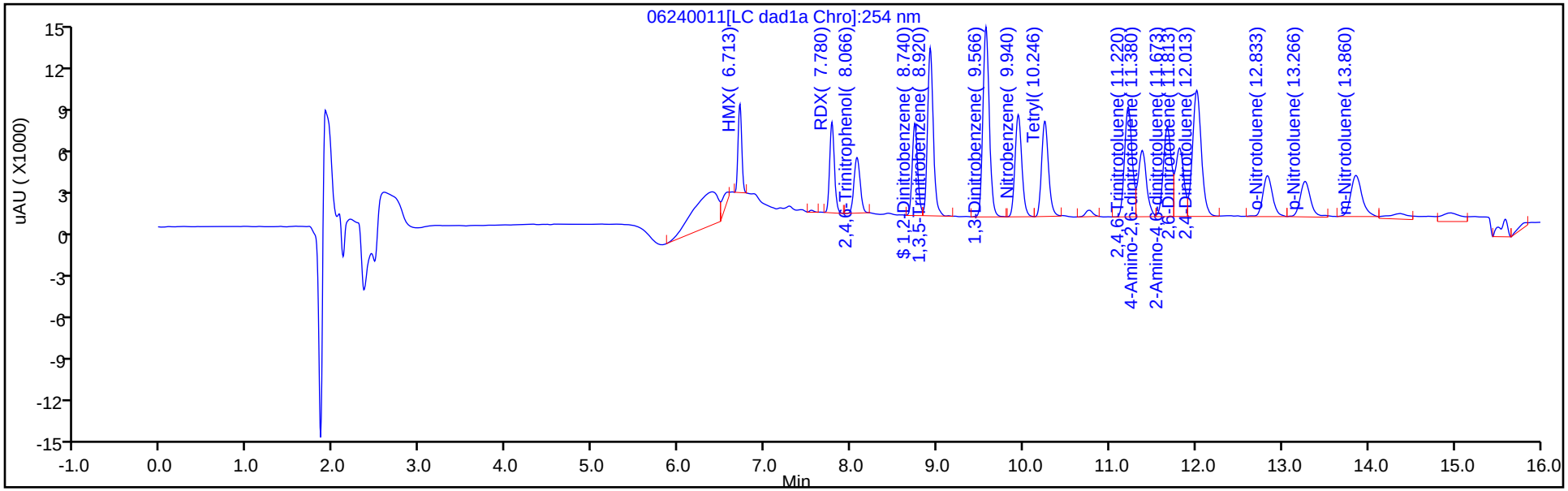
Report Date: 25-Jun-2020 21:10:09 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

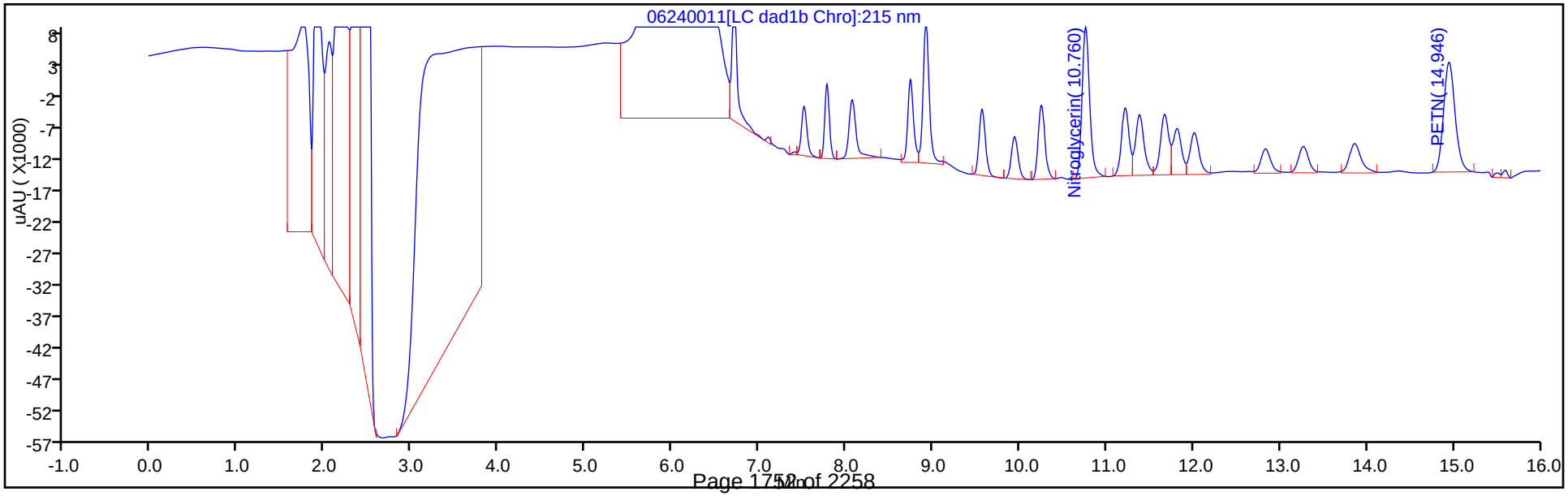
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240011.d

Injection Date:	24-Jun-2020 17:48:06	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCS 280-499527/2-A			Worklist Smp#:	11
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240011.D
Lims ID: LCS 280-499527/2-A
Client ID:
Sample Type: LCS
Inject. Date: 24-Jun-2020 17:48:06 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCS 280-499527/2
Misc. Info.: 280-0092716-011
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:07 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 24-Jun-2020 18:27:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.2046	102.29

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

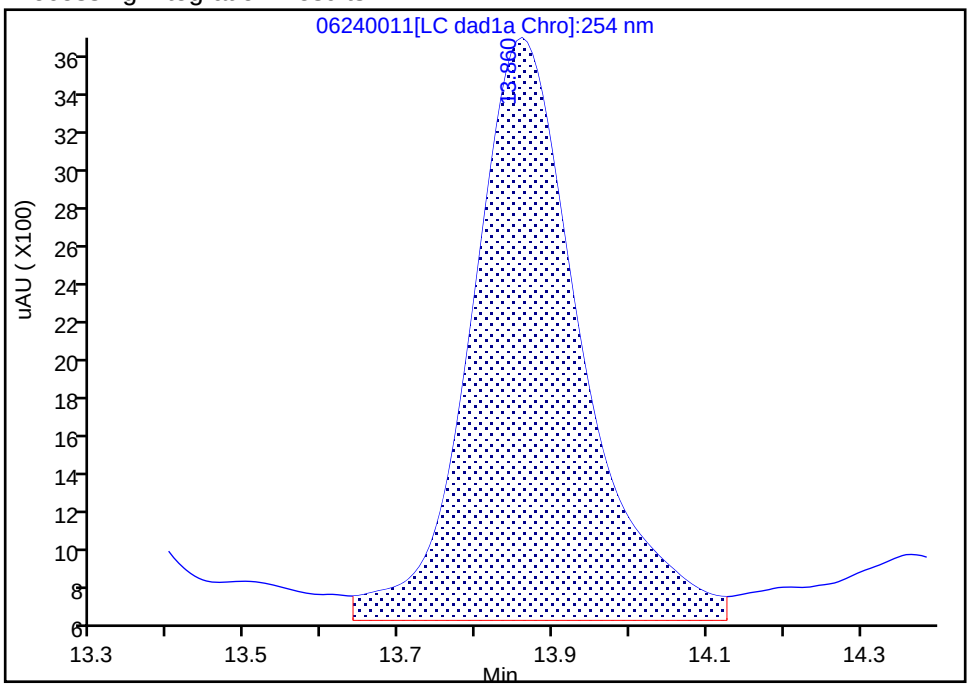
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240011.d				
Injection Date:	24-Jun-2020 17:48:06	Instrument ID:	CHHPLC_X3		
Lims ID:	LCS 280-499527/2-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

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

Signal: 1

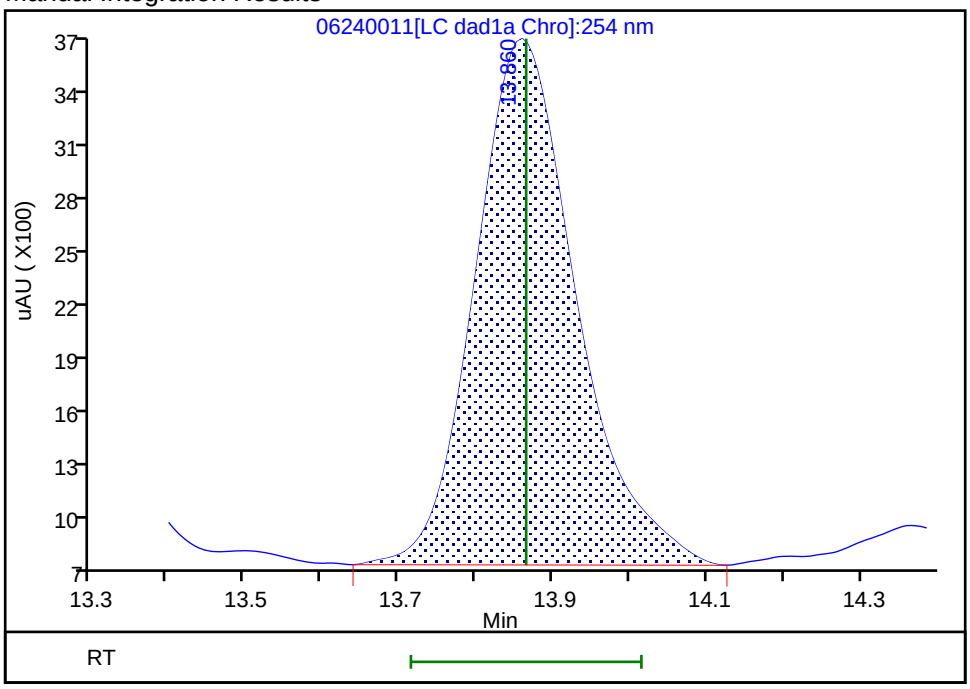
Processing Integration Results

RT: 13.86
Area: 30132
Amount: 0.210671
Amount Units: ug/mL



Manual Integration Results

RT: 13.86
Area: 26497
Amount: 0.185257
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 18:27:24

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

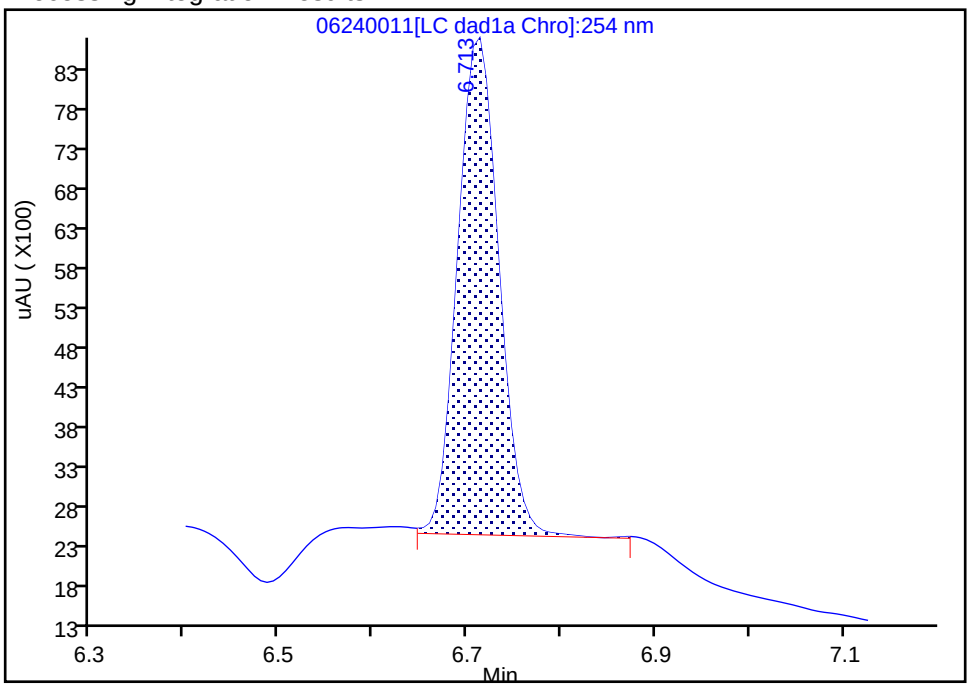
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240011.d				
Injection Date:	24-Jun-2020 17:48:06	Instrument ID:	CHHPLC_X3		
Lims ID:	LCS 280-499527/2-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

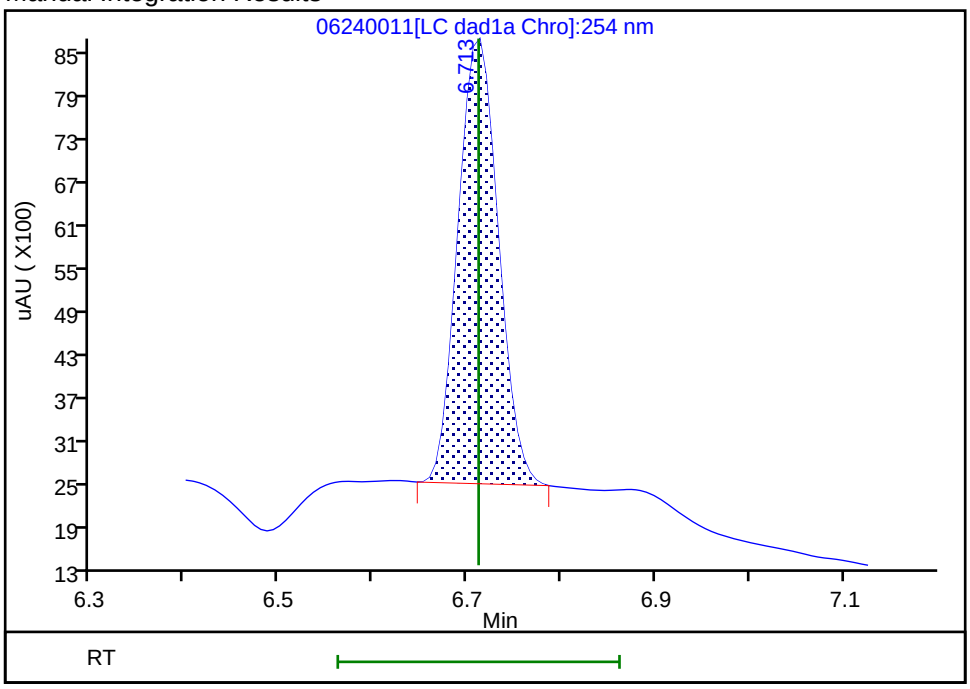
Processing Integration Results

RT: 6.71
Area: 19126
Amount: 0.222493
Amount Units: ug/mL



Manual Integration Results

RT: 6.71
Area: 18556
Amount: 0.215862
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 18:27:20

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-499527/3-A

Matrix: Water Lab File ID: 06240012.D

Analysis Method: 8330A Date Collected:

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 500(mL) Date Analyzed: 06/24/2020 18:11

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499988 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
5755-27-1	MNX	2.00	M	2.0	0.40	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	95	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240012.D
Lims ID: LCS 280-499527/3-A
Client ID:
Sample Type: LCS
Inject. Date: 24-Jun-2020 18:11:05 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCS 280-499527/3
Misc. Info.: 280-0092716-012
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:07 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 24-Jun-2020 19:56:47

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.620	6.617	0.003	38884	0.2002	0.1787	M
5 DNX	1	6.934	6.937	-0.003	29548	0.2002	0.1932	M
6 MNX	1	7.374	7.384	-0.010	31749	0.2334	0.2003	M
$ 9 1,2-Dinitrobenzene	1	8.734	8.738	-0.004	26245	0.2000	0.1899	M

QC Flag Legend

Review Flags
M - Manually Integrated

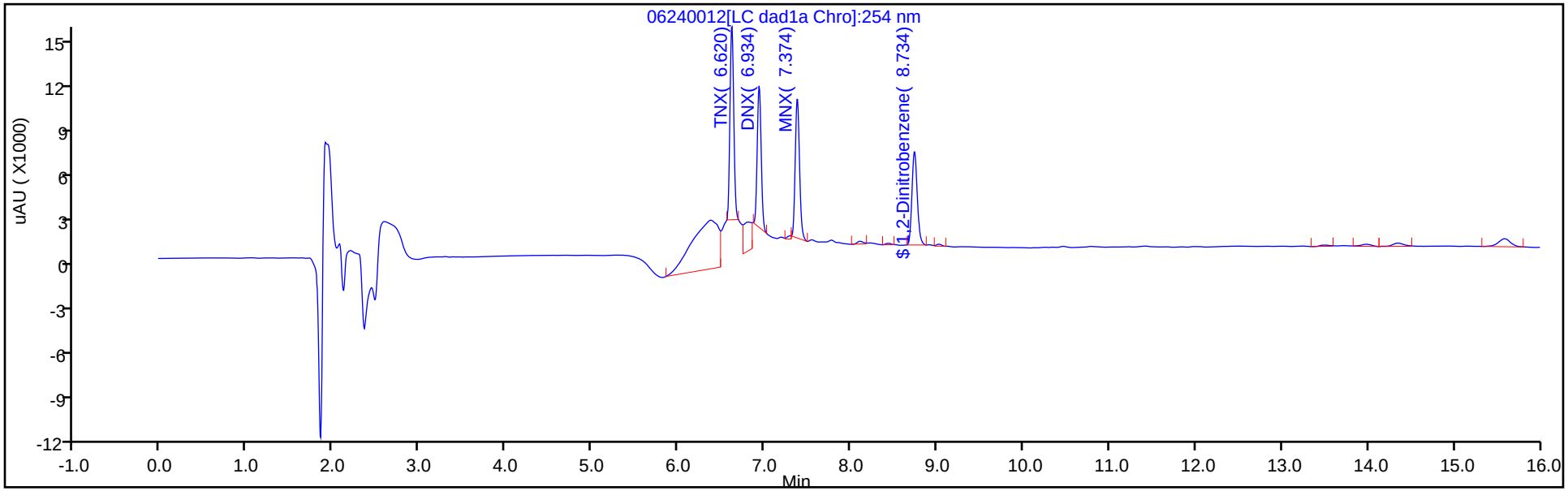
Report Date: 25-Jun-2020 21:10:09 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

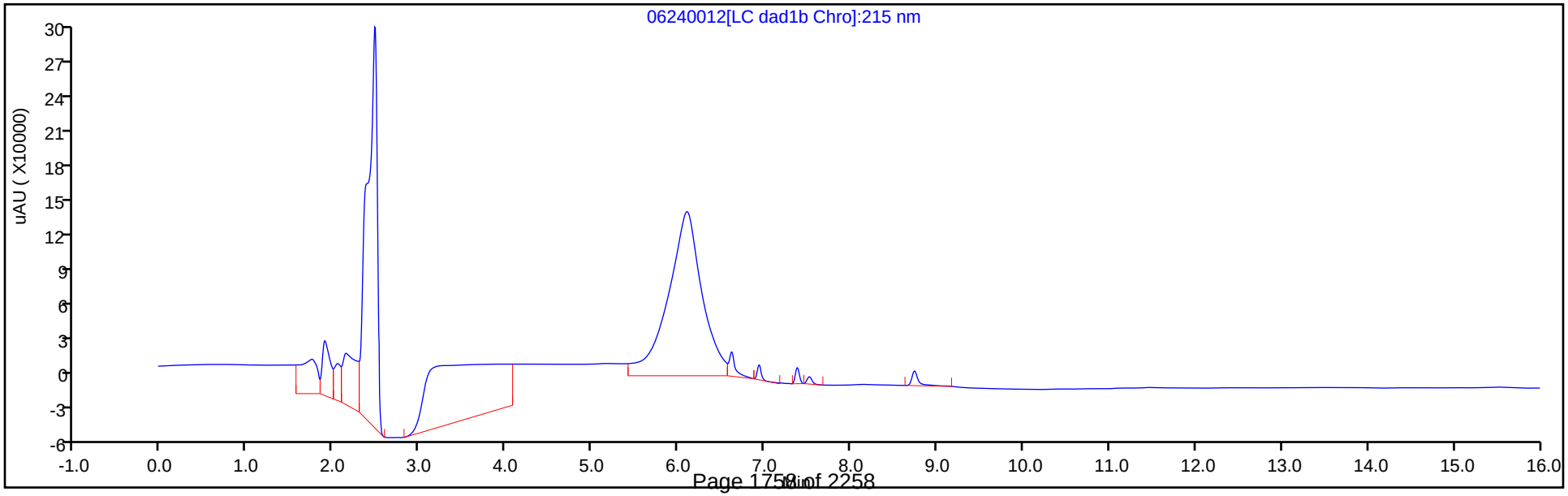
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240012.d

Injection Date:	24-Jun-2020 18:11:05	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCS 280-499527/3-A			Worklist Smp#:	12
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240012.D
Lims ID: LCS 280-499527/3-A
Client ID:
Sample Type: LCS
Inject. Date: 24-Jun-2020 18:11:05 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCS 280-499527/3
Misc. Info.: 280-0092716-012
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:07 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 24-Jun-2020 19:56:47

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1899	94.94

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

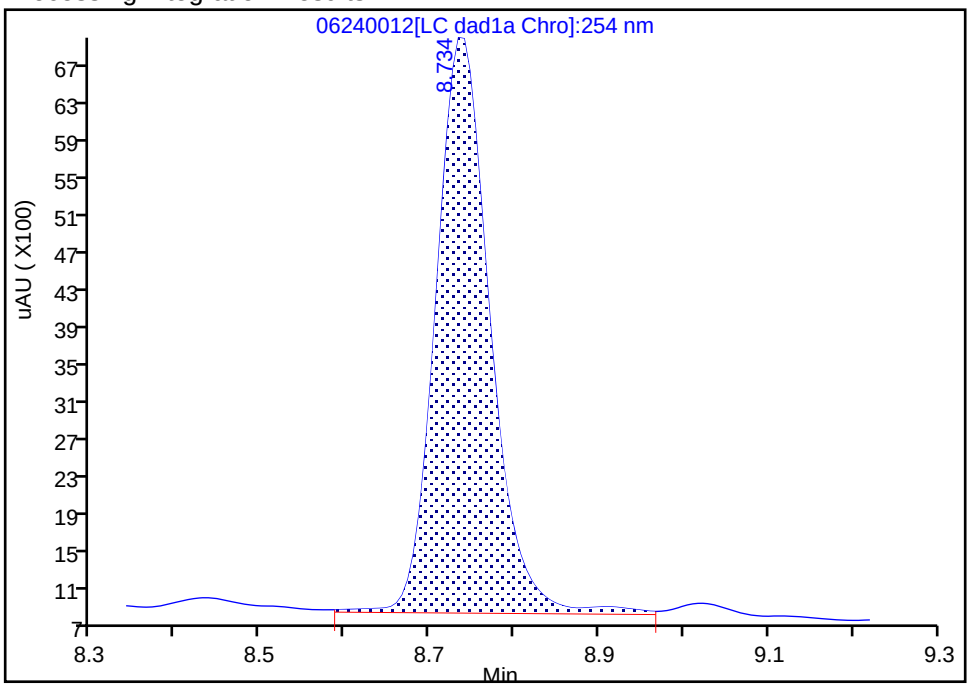
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240012.d				
Injection Date:	24-Jun-2020 18:11:05	Instrument ID:	CHHPLC_X3		
Lims ID:	LCS 280-499527/3-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

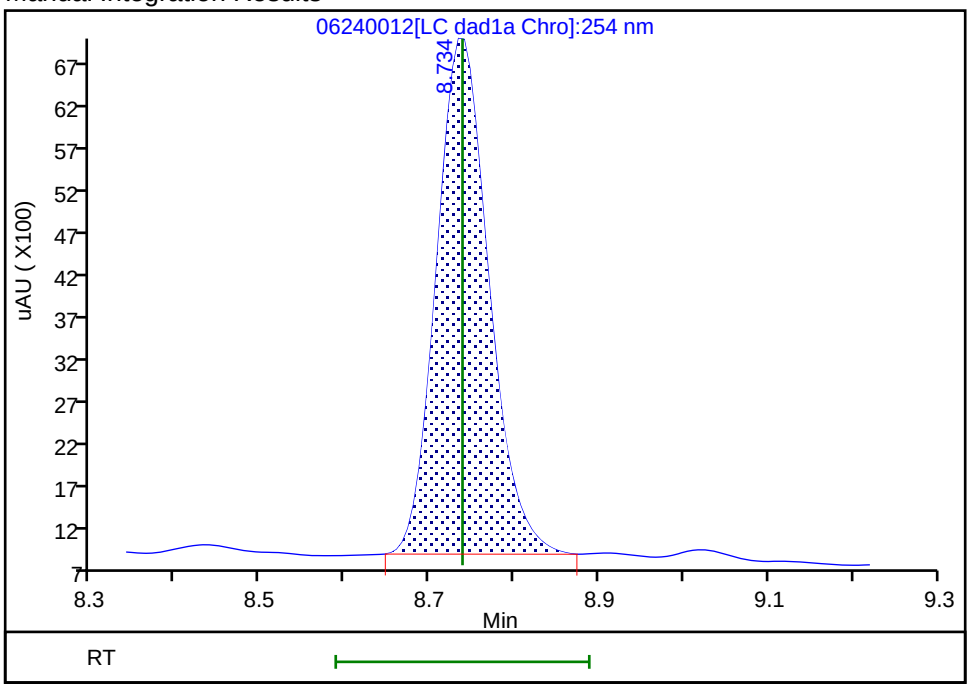
Processing Integration Results

RT: 8.73
Area: 27462
Amount: 0.198694
Amount Units: ug/mL



Manual Integration Results

RT: 8.73
Area: 26245
Amount: 0.189889
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 19:56:46

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

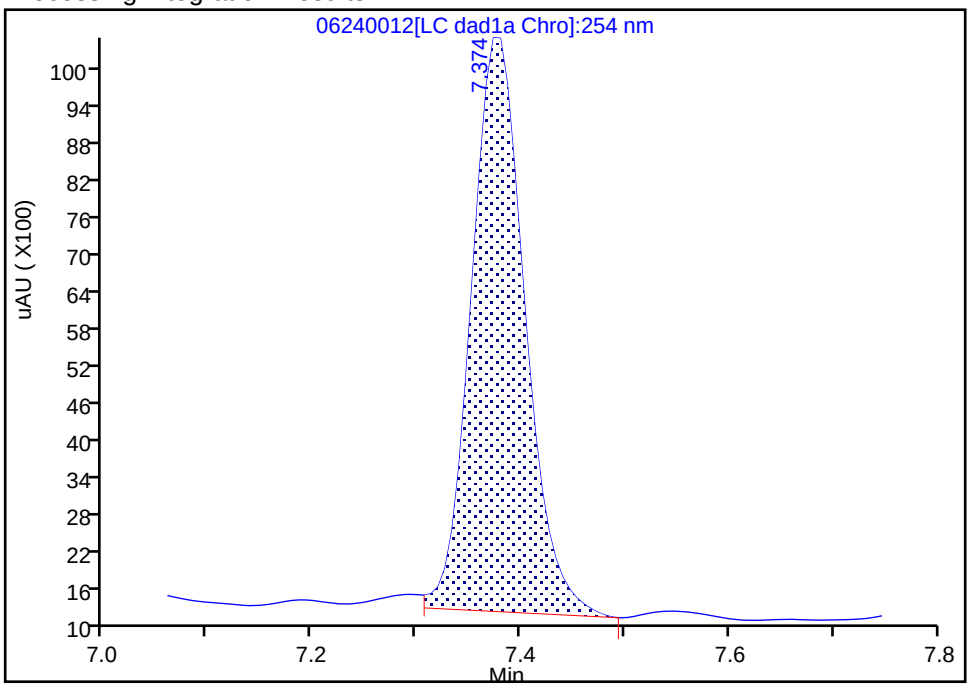
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240012.d				
Injection Date:	24-Jun-2020 18:11:05	Instrument ID:	CHHPLC_X3		
Lims ID:	LCS 280-499527/3-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

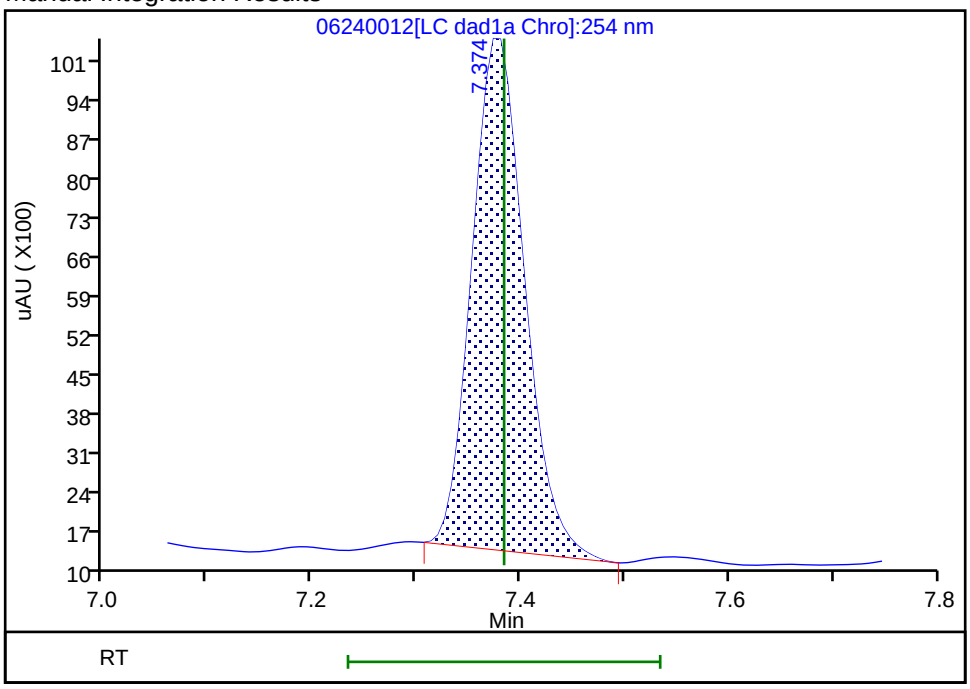
Processing Integration Results

RT: 7.37
Area: 32897
Amount: 0.207494
Amount Units: ug/mL



Manual Integration Results

RT: 7.37
Area: 31749
Amount: 0.200253
Amount Units: ug/mL



Reviewer: zhangji, 24-Jun-2020 19:56:36
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-500616/2-A

Matrix: Water Lab File ID: 06300025.D

Analysis Method: 8330A Date Collected:

Extraction Method: 3535 Date Extracted: 06/30/2020 12:07

Sample wt/vol: 500(mL) Date Analyzed: 07/01/2020 01:14

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 500691 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	2.23		0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	2.10		0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	2.21		0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	1.96		0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	2.01		0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	1.89		0.11	0.10	0.051
88-72-2	2-Nitrotoluene	1.70		0.21	0.20	0.086
99-08-1	3-Nitrotoluene	1.92		0.40	0.40	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.68		0.15	0.12	0.058
99-99-0	4-Nitrotoluene	1.76		0.41	0.40	0.10
2691-41-0	HMX	2.20		0.21	0.20	0.088
98-95-3	Nitrobenzene	1.97		0.21	0.20	0.091
121-82-4	RDX	2.00		0.21	0.20	0.052
479-45-8	Tetryl	1.97		0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	103		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300025.D
Lims ID: LCS 280-500616/2-A
Client ID:
Sample Type: LCS
Inject. Date: 01-Jul-2020 01:14:05 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCS 280-500616/2
Misc. Info.: 280-0092909-025
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 01-Jul-2020 15:06:12 Calib Date: 26-Jun-2020 01:16:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1062

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
	3 HMX	1	6.714	6.710	0.004	18880	0.2000	0.2196	
	7 RDX	1	7.801	7.783	0.018	23304	0.2000	0.1998	
	8 2,4,6-Trinitrophenol	1	8.108	8.083	0.025	18598	0.2000	0.2185	
$	9 1,2-Dinitrobenzene	1	8.774	8.757	0.017	28494	0.2000	0.2062	
	10 1,3,5-Trinitrobenzene	1	8.948	8.930	0.018	51286	0.2000	0.2227	
	11 1,3-Dinitrobenzene	1	9.607	9.583	0.024	64284	0.2000	0.2096	
	12 Nitrobenzene	1	9.987	9.963	0.024	39553	0.2000	0.1974	
	14 Tetryl	1	10.321	10.283	0.038	34906	0.2000	0.1972	
	15 Nitroglycerin	2	10.834	10.790	0.044	134683	2.00	1.98	
	16 2,4,6-Trinitrotoluene	1	11.294	11.250	0.044	45184	0.2000	0.2215	
	17 4-Amino-2,6-dinitrotoluene	1	11.481	11.423	0.058	28741	0.2000	0.1677	
	18 2-Amino-4,6-dinitrotoluene	1	11.774	11.710	0.064	38375	0.2000	0.1892	
	19 2,6-Dinitrotoluene	1	11.907	11.850	0.057	30053	0.2000	0.2011	
	20 2,4-Dinitrotoluene	1	12.107	12.050	0.057	59648	0.2000	0.1965	
	21 o-Nitrotoluene	1	12.947	12.883	0.064	22895	0.2000	0.1695	
	22 p-Nitrotoluene	1	13.394	13.323	0.071	19930	0.2000	0.1764	
	23 m-Nitrotoluene	1	14.001	13.923	0.078	27491	0.2000	0.1922	
	24 PETN	2	15.134	15.030	0.104	151834	2.00	1.93	

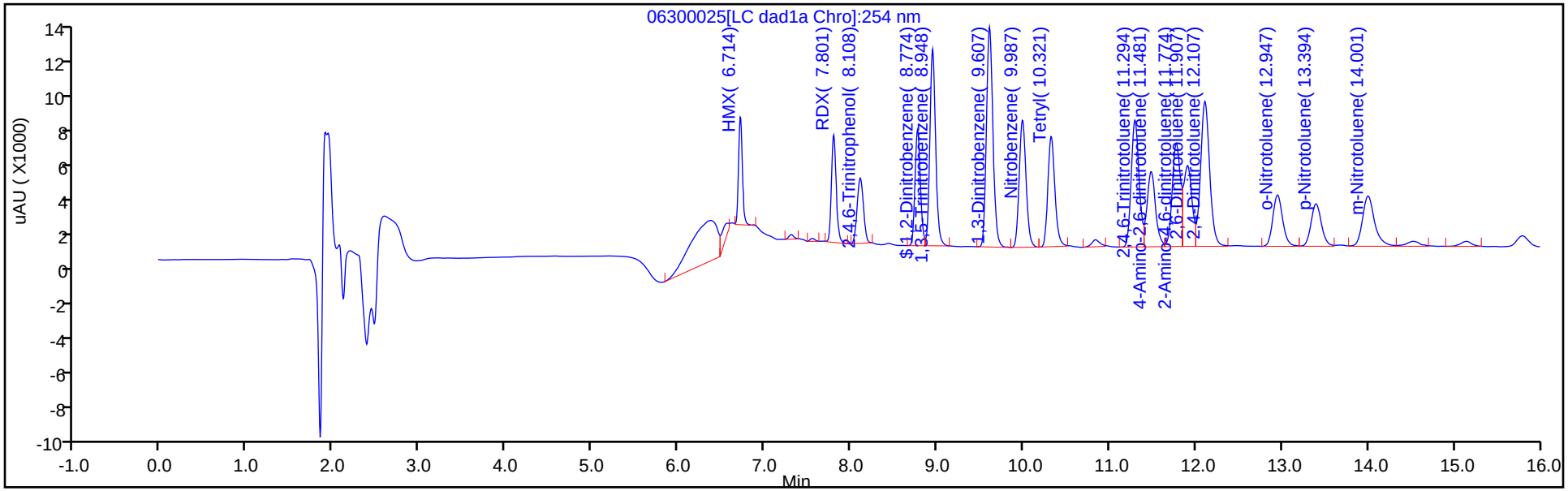
Report Date: 01-Jul-2020 15:06:14 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

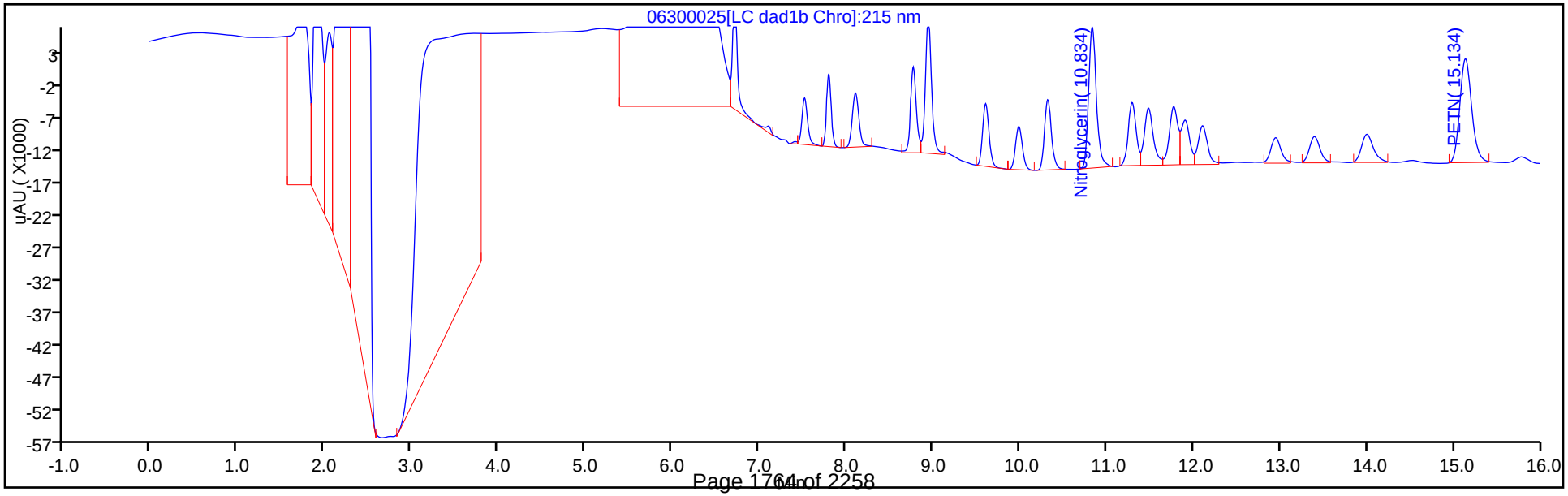
Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300025.d

Injection Date:	01-Jul-2020 01:14:05	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCS 280-500616/2-A			Worklist Smp#:	25
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300025.D				
Lims ID:	LCS 280-500616/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	01-Jul-2020 01:14:05	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 280-500616/2				
Misc. Info.:	280-0092909-025				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	01-Jul-2020 15:06:12	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1062				

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.2062	103.08

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-500616/4-A

Matrix: Water Lab File ID: 06300027.D

Analysis Method: 8330A Date Collected:

Extraction Method: 3535 Date Extracted: 06/30/2020 12:07

Sample wt/vol: 500(mL) Date Analyzed: 07/01/2020 02:00

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 500691 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
5755-27-1	MNX	1.99	J M	2.0	0.40	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	111	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300027.D
Lims ID: LCS 280-500616/4-A
Client ID:
Sample Type: LCS
Inject. Date: 01-Jul-2020 02:00:07 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCS 280-500616/4
Misc. Info.: 280-0092909-027
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 01-Jul-2020 15:06:12 Calib Date: 26-Jun-2020 01:16:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1062

First Level Reviewer: zhangji Date: 01-Jul-2020 14:20:08

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.616	6.613	0.003	39565	0.2002	0.1818	M
5 DNX	1	6.936	6.933	0.003	29180	0.2002	0.1908	M
6 MNX	1	7.389	7.386	0.003	31602	0.2334	0.1993	M
$ 9 1,2-Dinitrobenzene	1	8.776	8.757	0.019	30622	0.2000	0.2216	M

QC Flag Legend

Review Flags
M - Manually Integrated

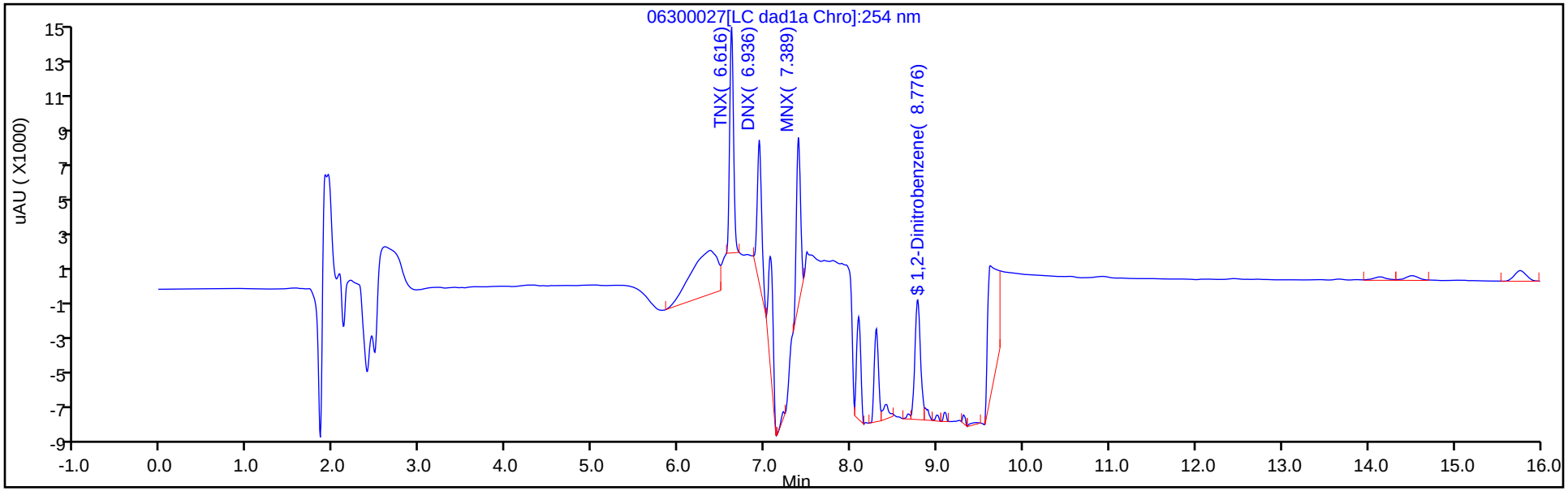
Report Date: 01-Jul-2020 15:06:14 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

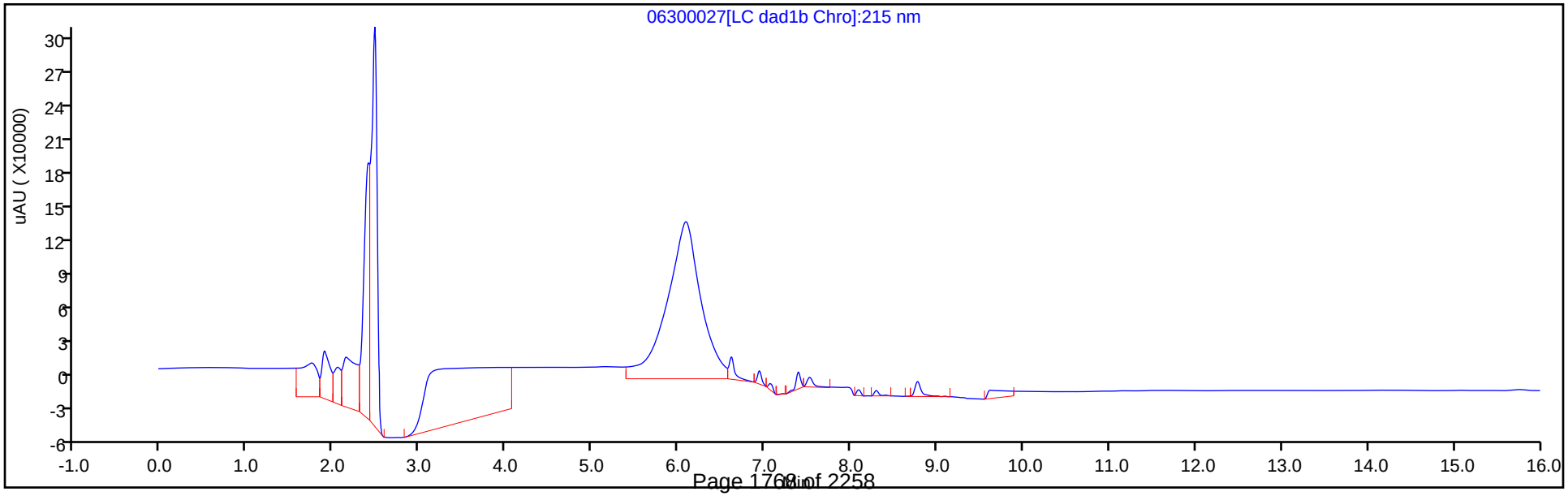
Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300027.d

Injection Date:	01-Jul-2020 02:00:07	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCS 280-500616/4-A			Worklist Smp#:	27
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300027.D				
Lims ID:	LCS 280-500616/4-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	01-Jul-2020 02:00:07	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 280-500616/4				
Misc. Info.:	280-0092909-027				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	01-Jul-2020 15:06:12	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1062				

First Level Reviewer: zhangji Date: 01-Jul-2020 14:20:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.2216	110.78

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

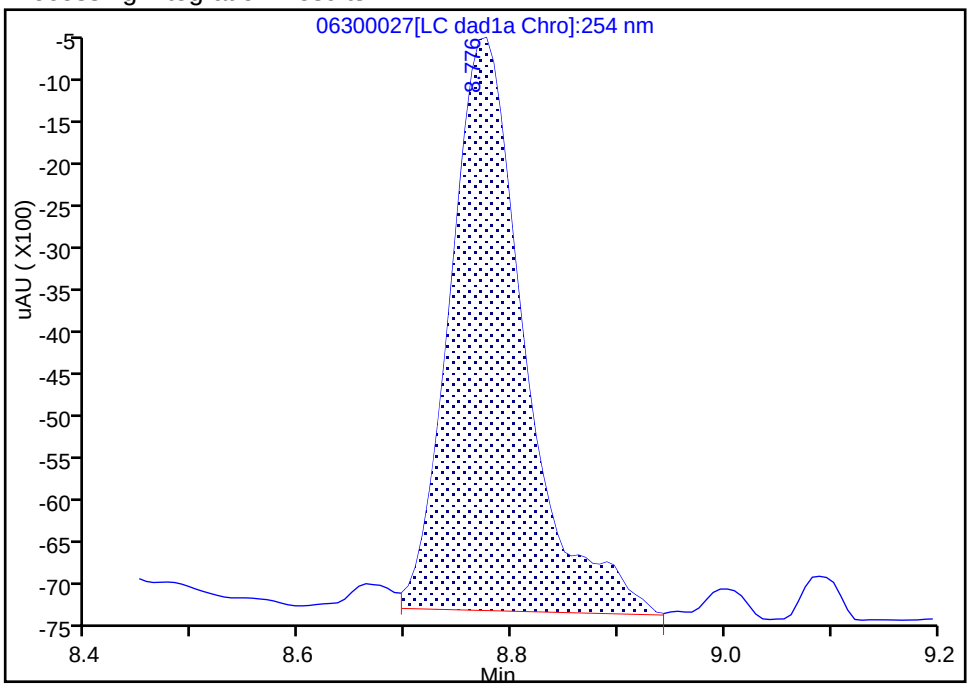
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300027.d				
Injection Date:	01-Jul-2020 02:00:07	Instrument ID:	CHHPLC_X3		
Lims ID:	LCS 280-500616/4-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

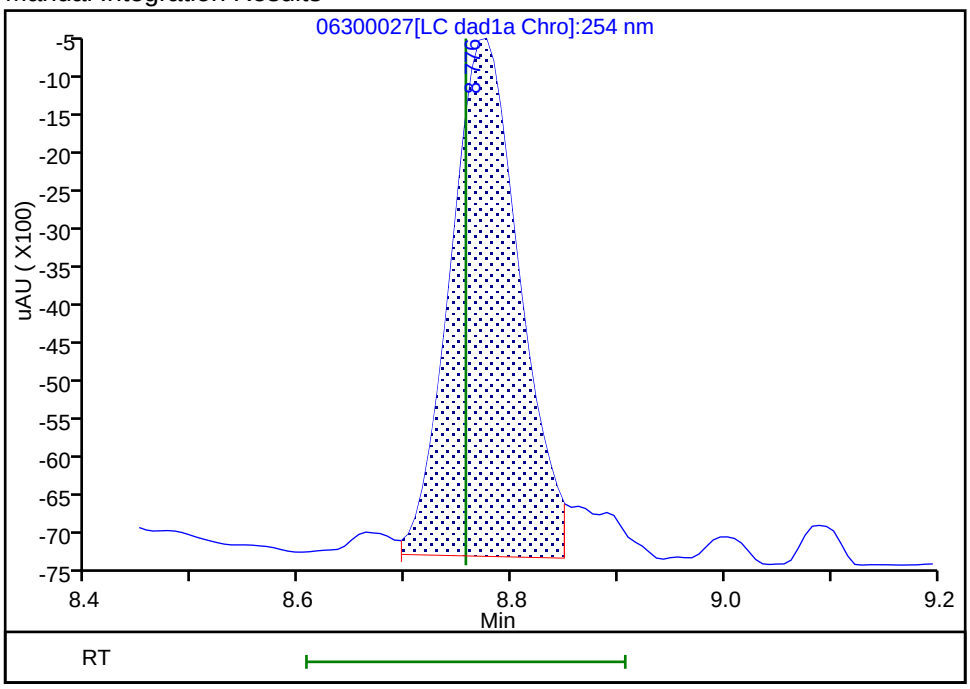
Processing Integration Results

RT: 8.78
Area: 33026
Amount: 0.238951
Amount Units: ug/mL



Manual Integration Results

RT: 8.78
Area: 30622
Amount: 0.221558
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:20:06

Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

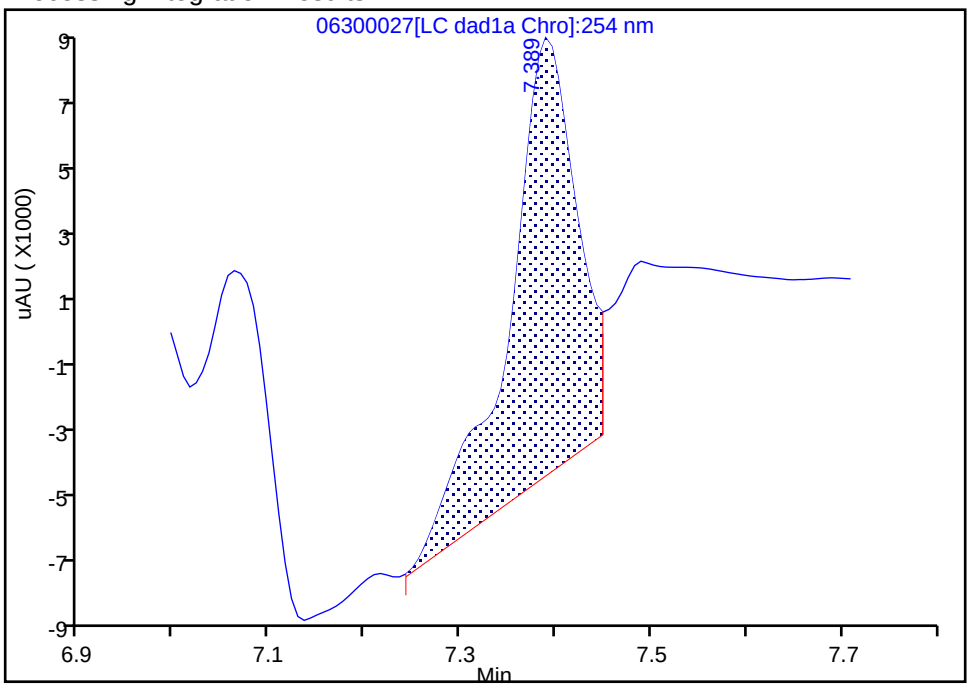
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300027.d				
Injection Date:	01-Jul-2020 02:00:07	Instrument ID:	CHHPLC_X3		
Lims ID:	LCS 280-500616/4-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

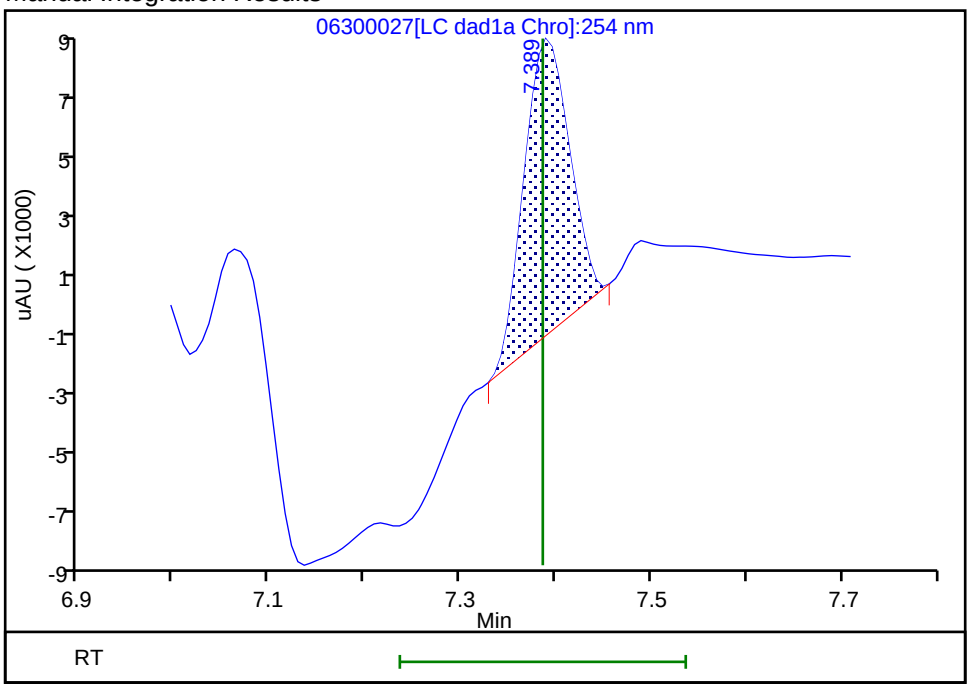
Processing Integration Results

RT: 7.39
Area: 63069
Amount: 0.397801
Amount Units: ug/mL



Manual Integration Results

RT: 7.39
Area: 31602
Amount: 0.199326
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:19:43

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 280-499406/3-A

Matrix: Water Lab File ID: 015-1401.D

Analysis Method: 8330A Date Collected:

Extraction Method: 3535 Date Extracted: 06/19/2020 15:47

Sample wt/vol: 500(mL) Date Analyzed: 06/26/2020 20:39

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 500316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	2.37		0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	2.21		0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	2.35		0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	2.08		0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	2.11		0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	2.02		0.11	0.10	0.051
88-72-2	2-Nitrotoluene	1.63		0.21	0.20	0.086
99-08-1	3-Nitrotoluene	1.82		0.40	0.40	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.77		0.15	0.12	0.058
99-99-0	4-Nitrotoluene	1.81		0.41	0.40	0.10
2691-41-0	HMX	2.20	M	0.21	0.20	0.088
98-95-3	Nitrobenzene	1.90		0.21	0.20	0.091
121-82-4	RDX	2.13		0.21	0.20	0.052
479-45-8	Tetryl	2.11		0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	101		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\015-1401.D
Lims ID: LCSD 280-499406/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 26-Jun-2020 20:39:28 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 280-499406/
Misc. Info.: 280-0092794-015
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 27-Jun-2020 13:26:12 Calib Date: 26-Jun-2020 01:16:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1036

First Level Reviewer: zhangji Date: 26-Jun-2020 21:11:31

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
	3 HMX	1	6.705	6.710	-0.005	18881	0.2000	0.2196	M
	7 RDX	1	7.785	7.790	-0.005	24794	0.2000	0.2126	
	8 2,4,6-Trinitrophenol	1	8.085	8.096	-0.011	19959	0.2000	0.2345	
$	9 1,2-Dinitrobenzene	1	8.752	8.756	-0.004	27924	0.2000	0.2020	
	10 1,3,5-Trinitrobenzene	1	8.932	8.930	0.002	54554	0.2000	0.2369	
	11 1,3-Dinitrobenzene	1	9.585	9.583	0.002	67819	0.2000	0.2211	
	12 Nitrobenzene	1	9.965	9.963	0.002	38056	0.2000	0.1899	
	14 Tetryl	1	10.292	10.283	0.009	37330	0.2000	0.2109	
	15 Nitroglycerin	2	10.798	10.790	0.008	144455	2.00	2.12	
	16 2,4,6-Trinitrotoluene	1	11.258	11.250	0.008	47862	0.2000	0.2346	
	17 4-Amino-2,6-dinitrotoluene	1	11.432	11.423	0.009	30487	0.2000	0.1774	
	18 2-Amino-4,6-dinitrotoluene	1	11.725	11.716	0.009	40902	0.2000	0.2017	
	19 2,6-Dinitrotoluene	1	11.865	11.850	0.015	31494	0.2000	0.2107	
	20 2,4-Dinitrotoluene	1	12.065	12.050	0.015	63071	0.2000	0.2078	
	21 o-Nitrotoluene	1	12.898	12.870	0.028	21950	0.2000	0.1625	
	22 p-Nitrotoluene	1	13.338	13.310	0.028	20413	0.2000	0.1806	
	23 m-Nitrotoluene	1	13.932	13.896	0.036	26091	0.2000	0.1824	
	24 PETN	2	15.038	14.996	0.042	168809	2.00	2.15	

QC Flag Legend

Review Flags
M - Manually Integrated

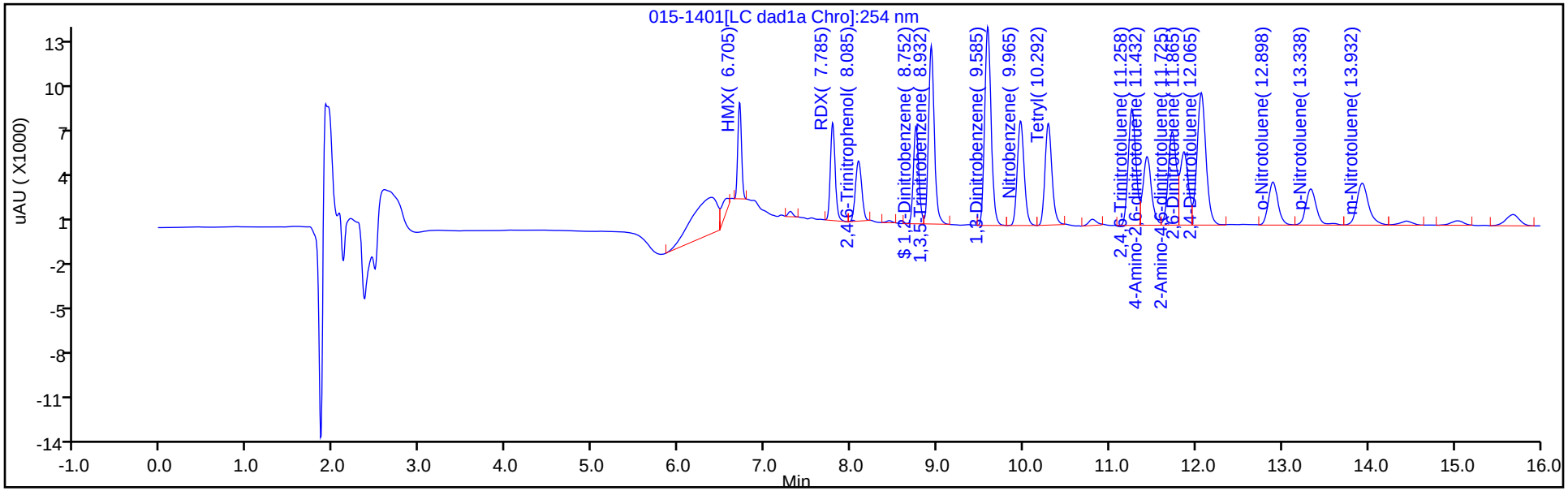
Report Date: 27-Jun-2020 13:26:15 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

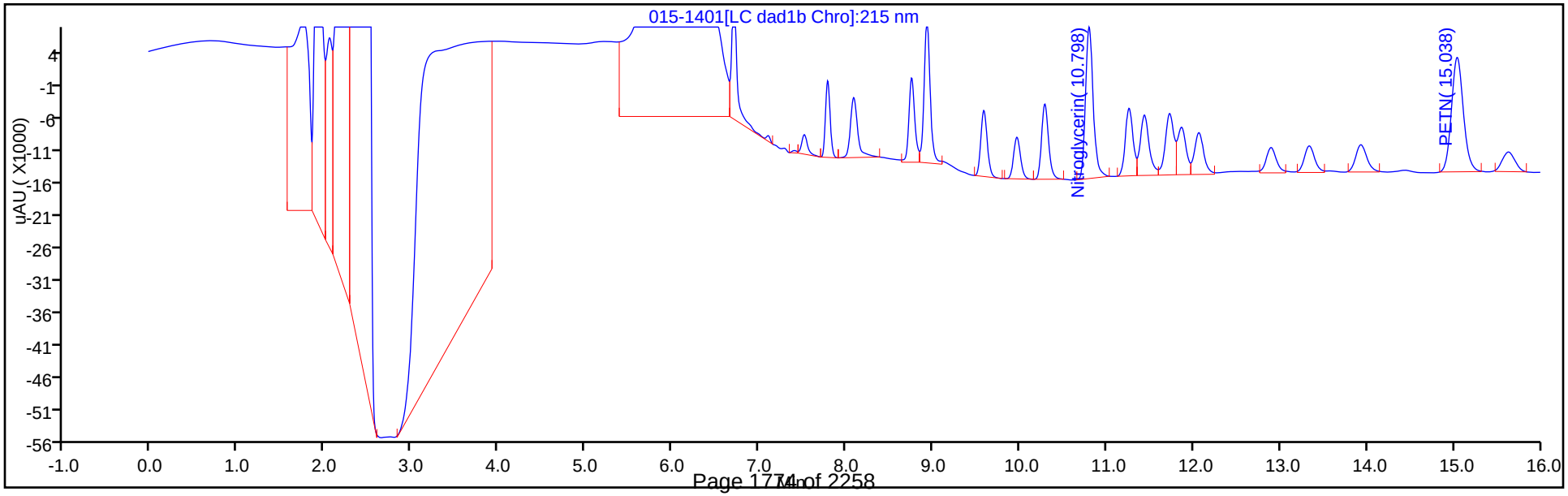
Data File: \\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\015-1401.d

Injection Date:	26-Jun-2020 20:39:28	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCSD 280-499406/3-A			Worklist Smp#:	15
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\015-1401.D				
Lims ID:	LCSD 280-499406/3-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	26-Jun-2020 20:39:28	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCSD 280-499406/				
Misc. Info.:	280-0092794-015				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200626-92794.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	27-Jun-2020 13:26:12	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1036				
First Level Reviewer: zhangji		Date:	26-Jun-2020 21:11:31		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.2020	101.02

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

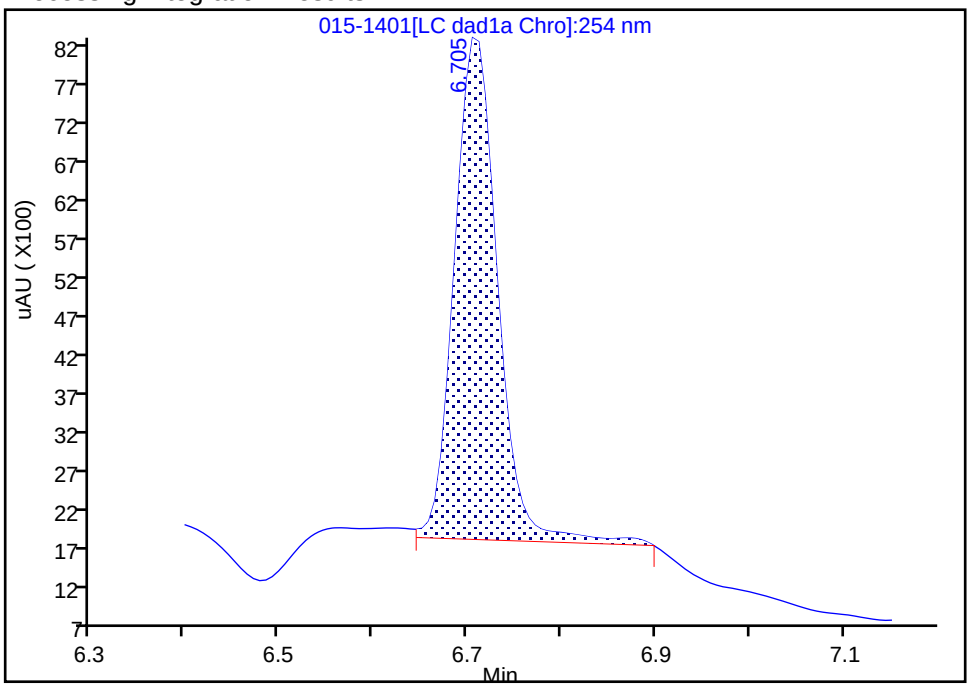
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200626-92794.b\015-1401.d				
Injection Date:	26-Jun-2020 20:39:28	Instrument ID:	CHHPLC_X3		
Lims ID:	LCSD 280-499406/3-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

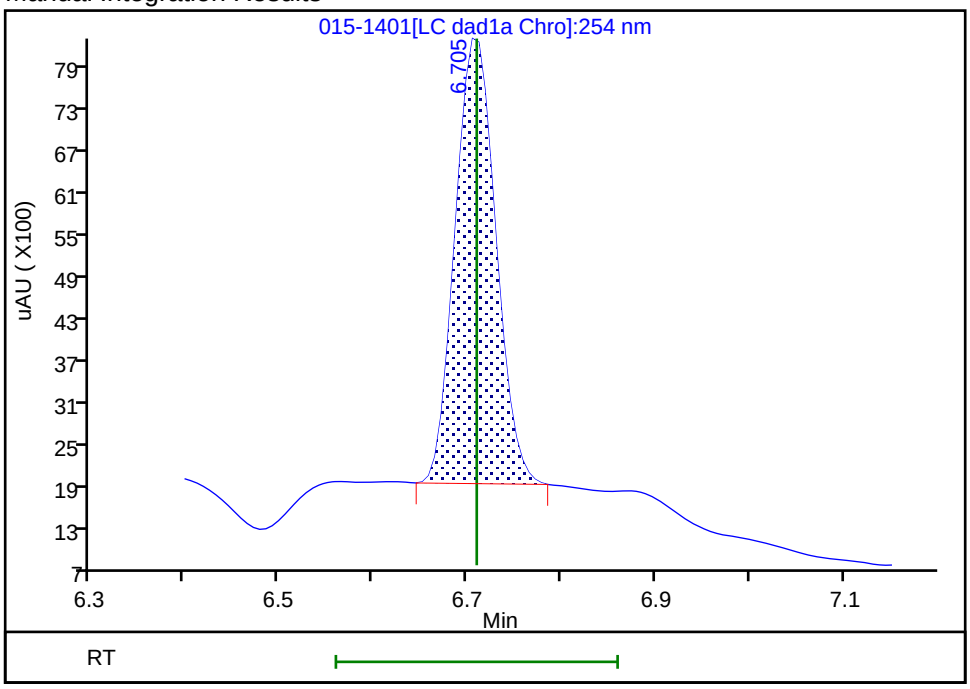
Processing Integration Results

RT: 6.71
Area: 20491
Amount: 0.238372
Amount Units: ug/mL



Manual Integration Results

RT: 6.71
Area: 18881
Amount: 0.219643
Amount Units: ug/mL



Reviewer: zhangji, 26-Jun-2020 21:11:19

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 280-499406/5-A

Matrix: Water Lab File ID: 06240038.D

Analysis Method: 8330A Date Collected:

Extraction Method: 3535 Date Extracted: 06/19/2020 15:47

Sample wt/vol: 500(mL) Date Analyzed: 06/25/2020 04:09

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499989 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
5755-27-1	MNX	2.00	M	2.0	0.40	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	98	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240038.D
Lims ID: LCSD 280-499406/5-A
Client ID:
Sample Type: LCSD
Inject. Date: 25-Jun-2020 04:09:27 ALS Bottle#: 38 Worklist Smp#: 38
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 280-499406/
Misc. Info.: 280-0092716-038
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:09:46 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:12:37

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.622	6.617	0.005	37309	0.2002	0.1714	M
5 DNX	1	6.942	6.937	0.005	29319	0.2002	0.1917	M
6 MNX	1	7.389	7.384	0.005	31761	0.2334	0.2003	M
$ 9 1,2-Dinitrobenzene	1	8.749	8.738	0.011	27134	0.2000	0.1963	M

QC Flag Legend

Review Flags
M - Manually Integrated

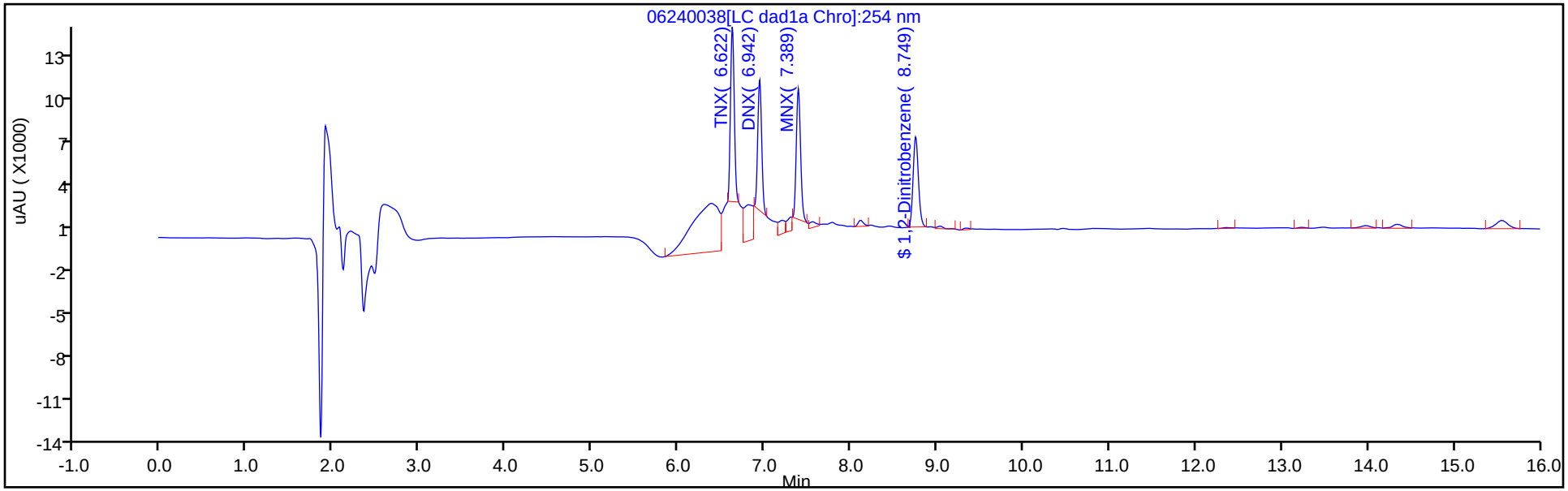
Report Date: 25-Jun-2020 21:09:50 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

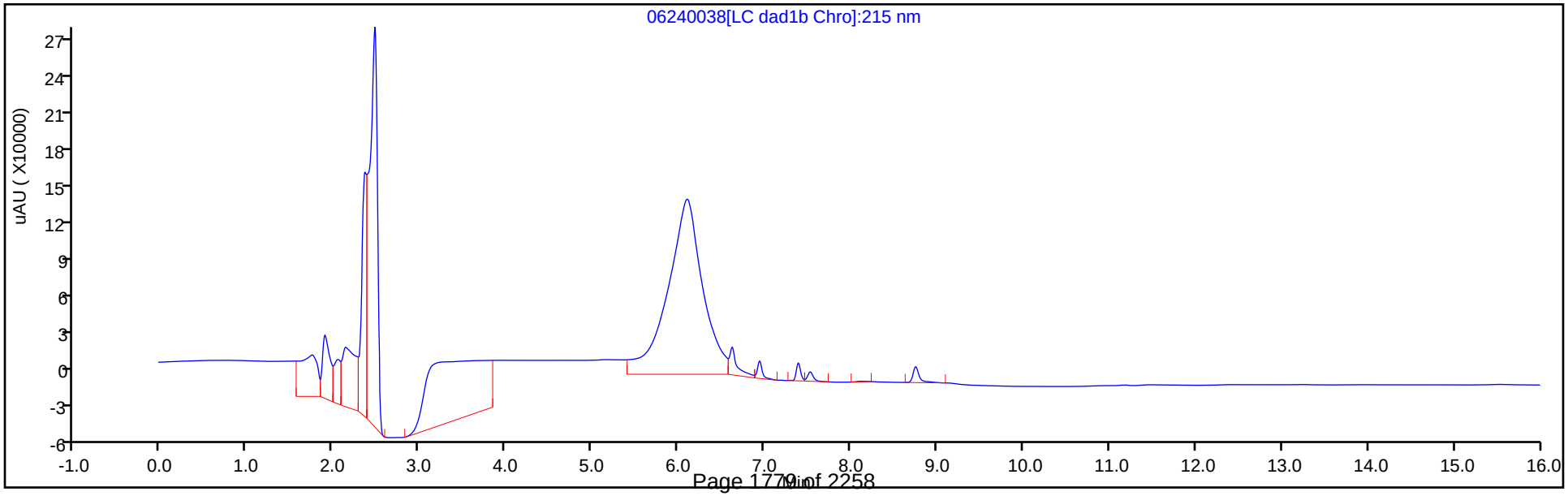
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240038.d

Injection Date:	25-Jun-2020 04:09:27	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCSD 280-499406/5-A			Worklist Smp#:	38
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240038.D
Lims ID: LCSD 280-499406/5-A
Client ID:
Sample Type: LCSD
Inject. Date: 25-Jun-2020 04:09:27 ALS Bottle#: 38 Worklist Smp#: 38
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 280-499406/
Misc. Info.: 280-0092716-038
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:09:46 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:12:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1963	98.16

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

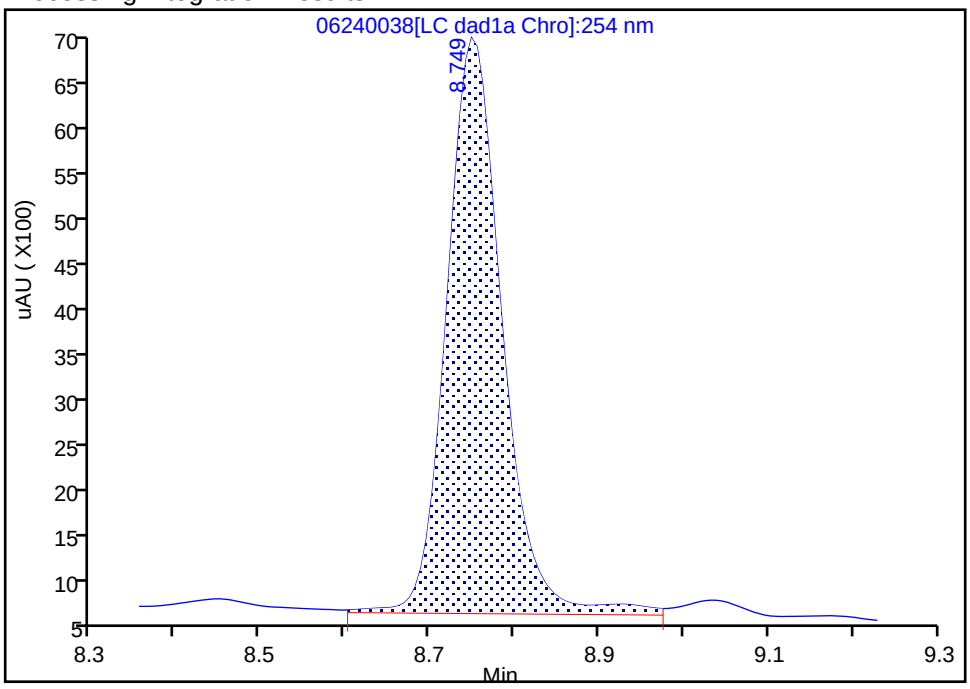
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240038.d
Injection Date: 25-Jun-2020 04:09:27 Instrument ID: CHHPLC_X3
Lims ID: LCSD 280-499406/5-A
Client ID:
Operator ID: JZ ALS Bottle#: 38 Worklist Smp#: 38
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Method: 8330_X3 Limit Group: GCSV - 8330
Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

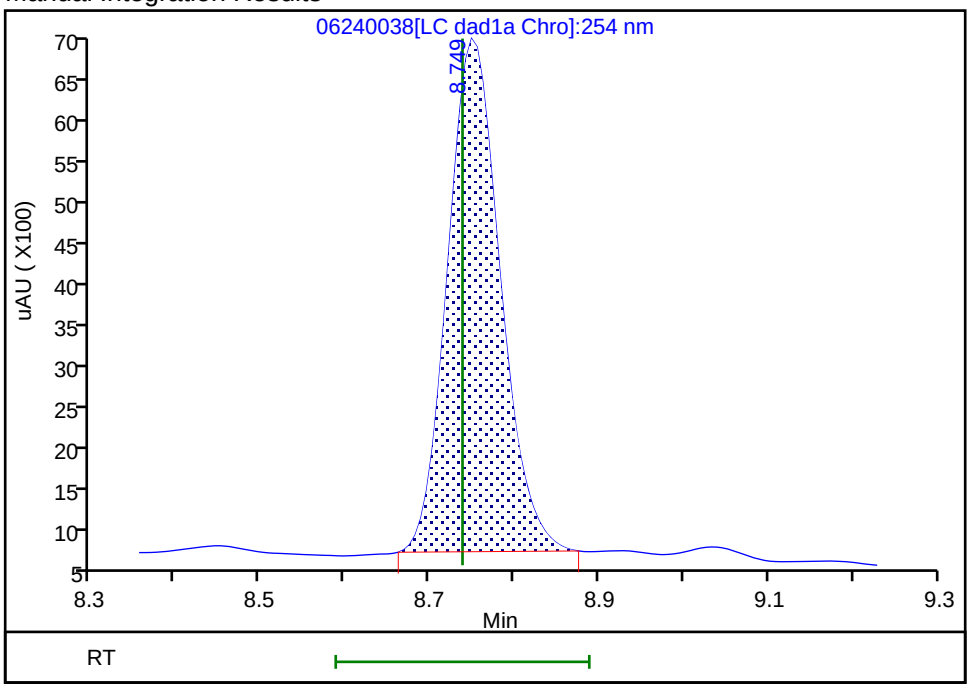
Processing Integration Results

RT: 8.75
Area: 29112
Amount: 0.210633
Amount Units: ug/mL



Manual Integration Results

RT: 8.75
Area: 27134
Amount: 0.196321
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:12:35
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

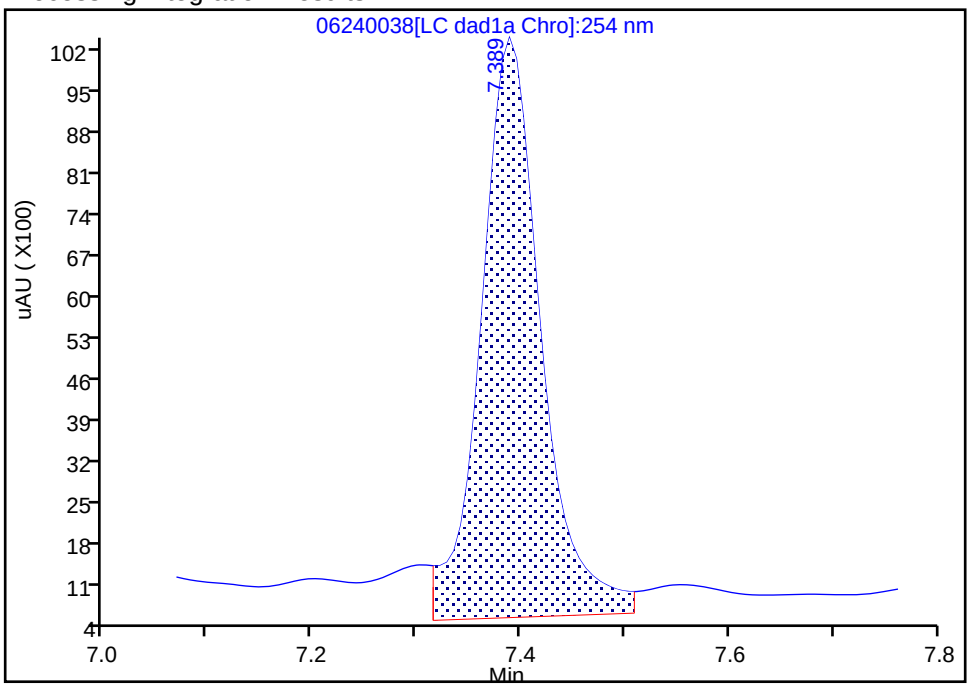
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240038.d				
Injection Date:	25-Jun-2020 04:09:27	Instrument ID:	CHHPLC_X3		
Lims ID:	LCSD 280-499406/5-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	38	Worklist Smp#:	38
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

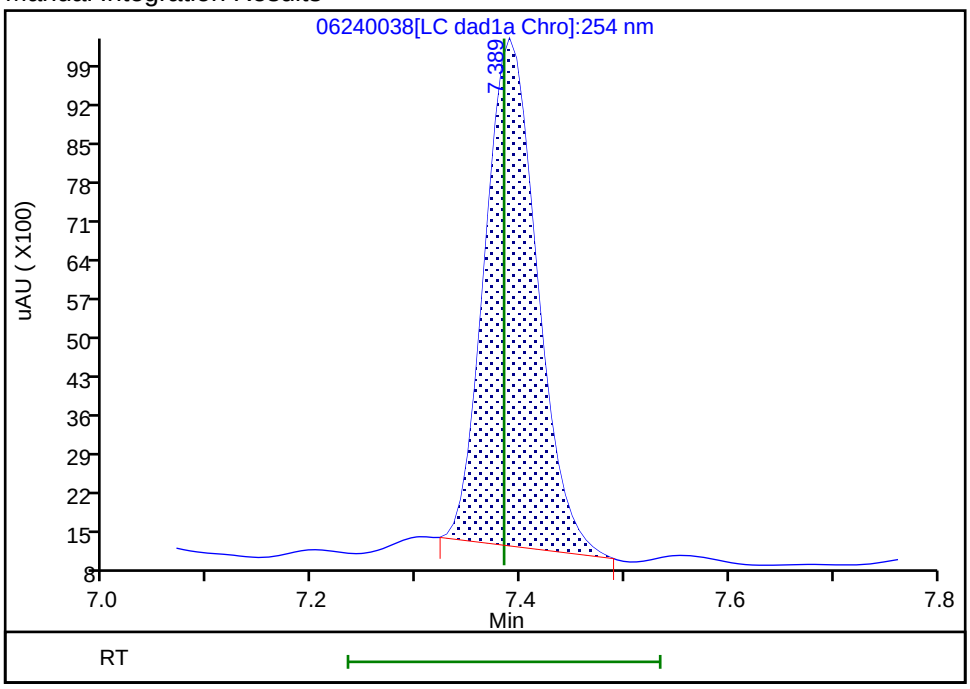
Processing Integration Results

RT: 7.39
Area: 39406
Amount: 0.248549
Amount Units: ug/mL



Manual Integration Results

RT: 7.39
Area: 31761
Amount: 0.200329
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:12:31

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 280-500616/3-A

Matrix: Water Lab File ID: 06300026.D

Analysis Method: 8330A Date Collected:

Extraction Method: 3535 Date Extracted: 06/30/2020 12:07

Sample wt/vol: 500(mL) Date Analyzed: 07/01/2020 01:37

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 500691 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	2.33		0.21	0.20	0.084
99-65-0	1,3-Dinitrobenzene	2.23		0.11	0.10	0.037
118-96-7	2,4,6-Trinitrotoluene	2.31		0.11	0.10	0.045
121-14-2	2,4-Dinitrotoluene	2.07		0.10	0.080	0.027
606-20-2	2,6-Dinitrotoluene	2.12		0.10	0.080	0.040
35572-78-2	2-Amino-4,6-dinitrotoluene	2.02		0.11	0.10	0.051
88-72-2	2-Nitrotoluene	1.86		0.21	0.20	0.086
99-08-1	3-Nitrotoluene	2.07		0.40	0.40	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.80		0.15	0.12	0.058
99-99-0	4-Nitrotoluene	1.92		0.41	0.40	0.10
2691-41-0	HMX	2.21	M	0.21	0.20	0.088
98-95-3	Nitrobenzene	2.17		0.21	0.20	0.091
121-82-4	RDX	2.11		0.21	0.20	0.052
479-45-8	Tetryl	2.05		0.11	0.10	0.032

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	104		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300026.D
Lims ID: LCSD 280-500616/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 01-Jul-2020 01:37:05 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 280-500616/
Misc. Info.: 280-0092909-026
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 01-Jul-2020 15:06:12 Calib Date: 26-Jun-2020 01:16:48
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1062

First Level Reviewer: zhangji Date: 01-Jul-2020 14:19:09

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
	3 HMX	1	6.720	6.710	0.010	19008	0.2000	0.2211	M
	7 RDX	1	7.800	7.783	0.017	24660	0.2000	0.2115	
	8 2,4,6-Trinitrophenol	1	8.107	8.083	0.024	19511	0.2000	0.2292	
$	9 1,2-Dinitrobenzene	1	8.774	8.757	0.017	28661	0.2000	0.2074	
	10 1,3,5-Trinitrobenzene	1	8.947	8.930	0.017	53732	0.2000	0.2333	
	11 1,3-Dinitrobenzene	1	9.607	9.583	0.024	68390	0.2000	0.2230	
	12 Nitrobenzene	1	9.994	9.963	0.031	43419	0.2000	0.2167	
	14 Tetryl	1	10.320	10.283	0.037	36334	0.2000	0.2052	
	15 Nitroglycerin	2	10.834	10.790	0.044	138735	2.00	2.04	
	16 2,4,6-Trinitrotoluene	1	11.294	11.250	0.044	47155	0.2000	0.2311	
	17 4-Amino-2,6-dinitrotoluene	1	11.474	11.423	0.051	30983	0.2000	0.1802	
	18 2-Amino-4,6-dinitrotoluene	1	11.767	11.710	0.057	40951	0.2000	0.2019	
	19 2,6-Dinitrotoluene	1	11.900	11.850	0.050	31693	0.2000	0.2121	
	20 2,4-Dinitrotoluene	1	12.100	12.050	0.050	62791	0.2000	0.2068	
	21 o-Nitrotoluene	1	12.934	12.883	0.051	25071	0.2000	0.1856	
	22 p-Nitrotoluene	1	13.380	13.323	0.057	21721	0.2000	0.1922	
	23 m-Nitrotoluene	1	13.980	13.923	0.057	29547	0.2000	0.2066	
	24 PETN	2	15.107	15.030	0.077	157234	2.00	2.00	

QC Flag Legend

Review Flags
M - Manually Integrated

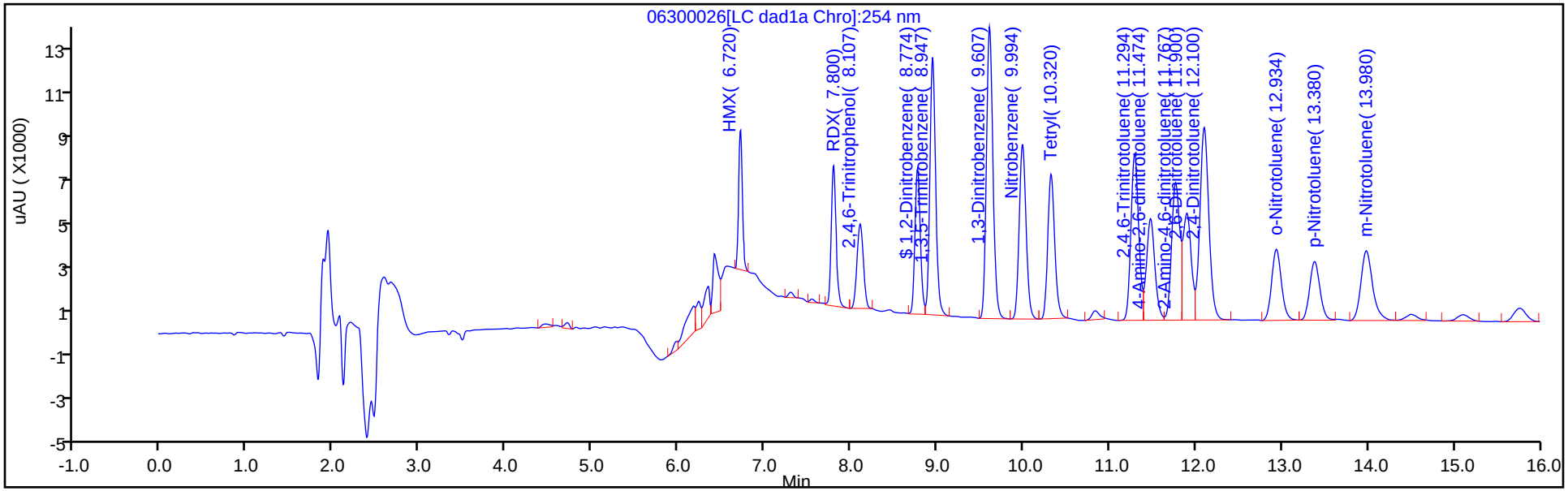
Report Date: 01-Jul-2020 15:06:14 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

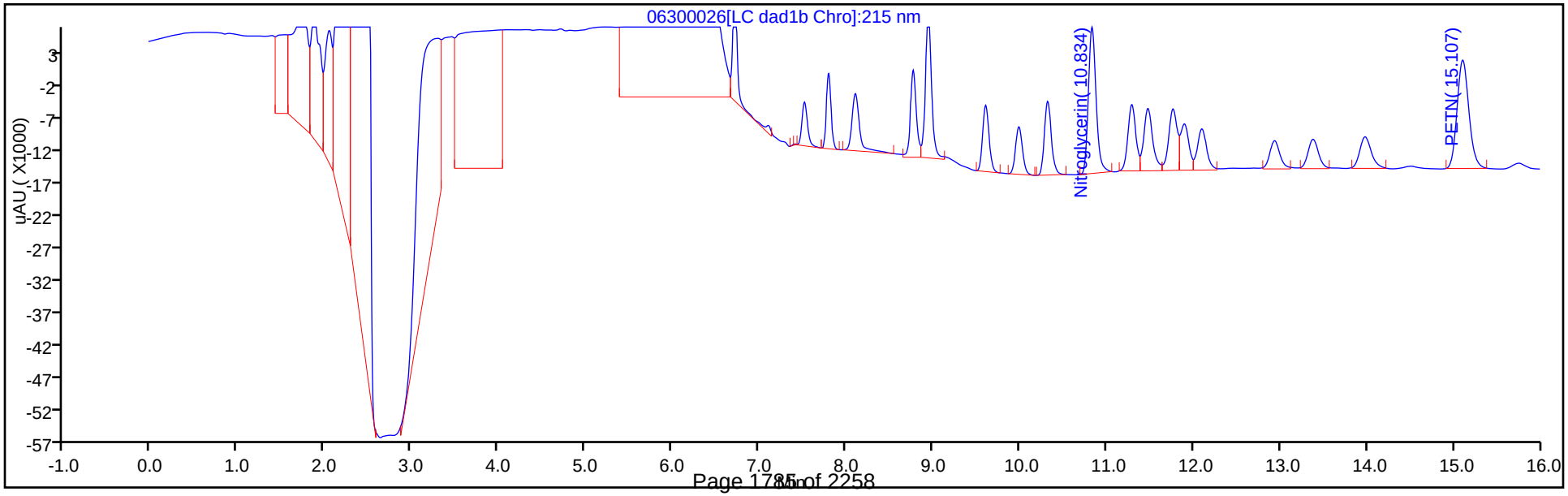
Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300026.d

Injection Date:	01-Jul-2020 01:37:05	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCSD 280-500616/3-A			Worklist Smp#:	26
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300026.D				
Lims ID:	LCSD 280-500616/3-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	01-Jul-2020 01:37:05	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCSD 280-500616/				
Misc. Info.:	280-0092909-026				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	01-Jul-2020 15:06:12	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1062				
First Level Reviewer: zhangji		Date:	01-Jul-2020 14:19:09		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.2074	103.68

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

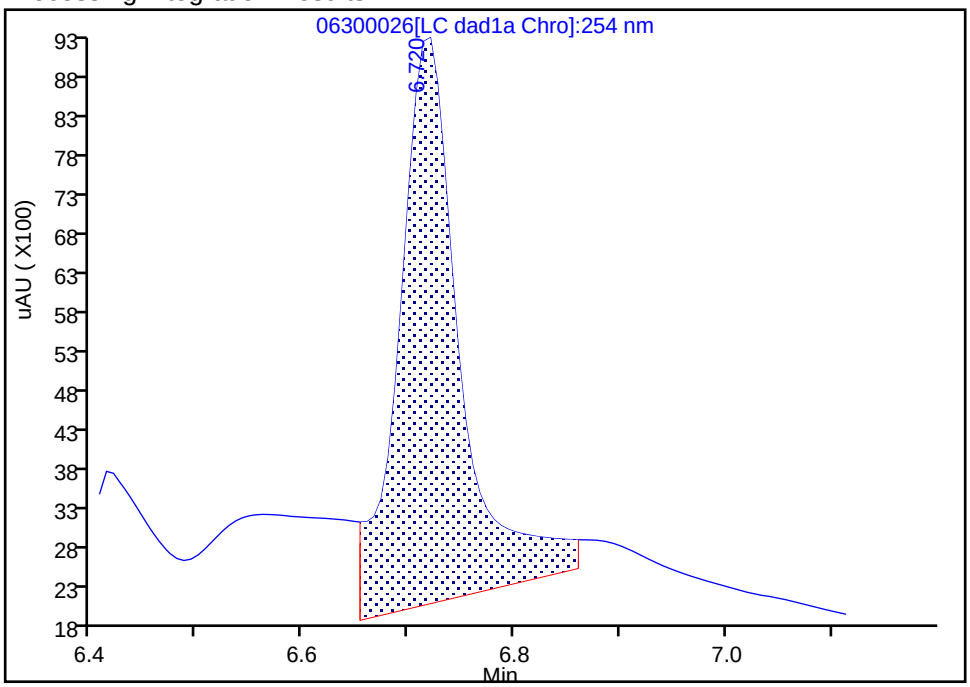
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300026.d				
Injection Date:	01-Jul-2020 01:37:05	Instrument ID:	CHHPLC_X3		
Lims ID:	LCSD 280-500616/3-A				
Client ID:					
Operator ID:	JZ	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

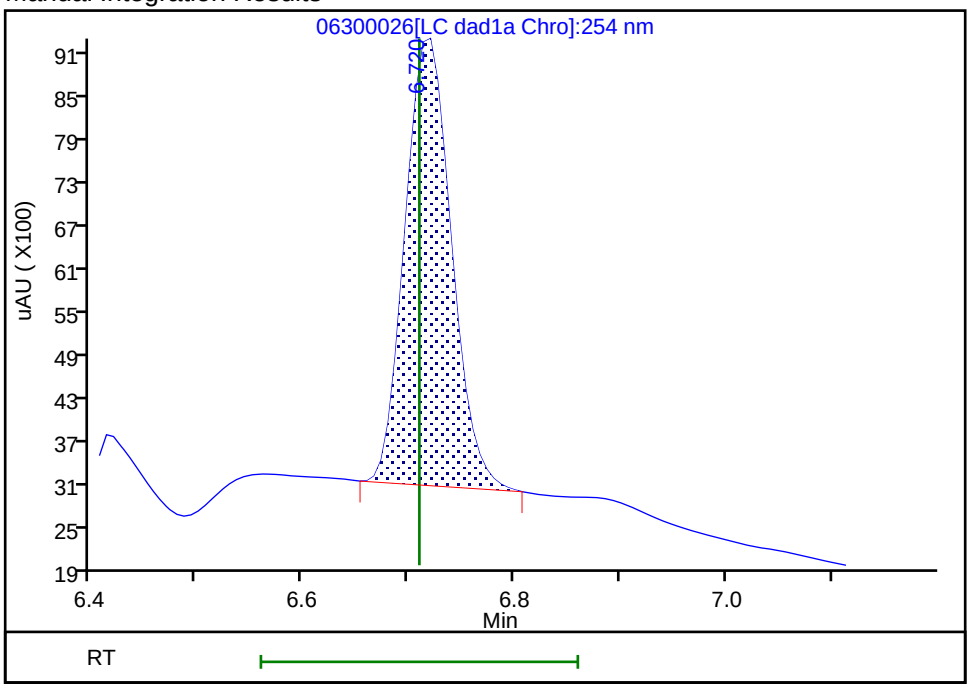
Processing Integration Results

RT: 6.72
Area: 29102
Amount: 0.338544
Amount Units: ug/mL



Manual Integration Results

RT: 6.72
Area: 19008
Amount: 0.221121
Amount Units: ug/mL



Reviewer: zhangji, 01-Jul-2020 14:19:08
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 280-500616/5-A

Matrix: Water Lab File ID: 06300028.D

Analysis Method: 8330A Date Collected:

Extraction Method: 3535 Date Extracted: 06/30/2020 12:07

Sample wt/vol: 500(mL) Date Analyzed: 07/01/2020 02:23

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 500691 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
5755-27-1	MNX	2.16		2.0	0.40	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	105		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300028.D				
Lims ID:	LCSD 280-500616/5-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	01-Jul-2020 02:23:05	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCSD 280-500616/				
Misc. Info.:	280-0092909-028				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	01-Jul-2020 15:06:12	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1062				
First Level Reviewer: zhangji		Date:	01-Jul-2020 14:20:38		

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.617	6.613	0.004	39925	0.2002	0.1835	M
5 DNX	1	6.937	6.933	0.004	31085	0.2002	0.2033	M
6 MNX	1	7.384	7.386	-0.002	34213	0.2334	0.2158	
$ 9 1,2-Dinitrobenzene	1	8.771	8.757	0.014	29113	0.2000	0.2106	

QC Flag Legend

Review Flags

M - Manually Integrated

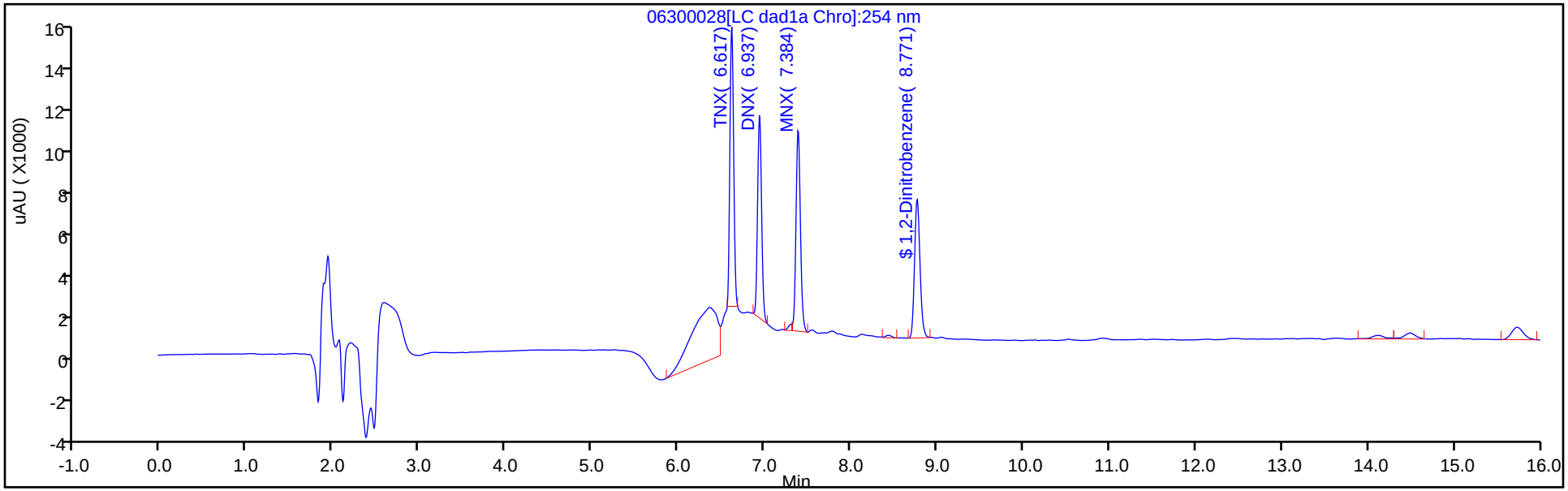
Report Date: 01-Jul-2020 15:06:15 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

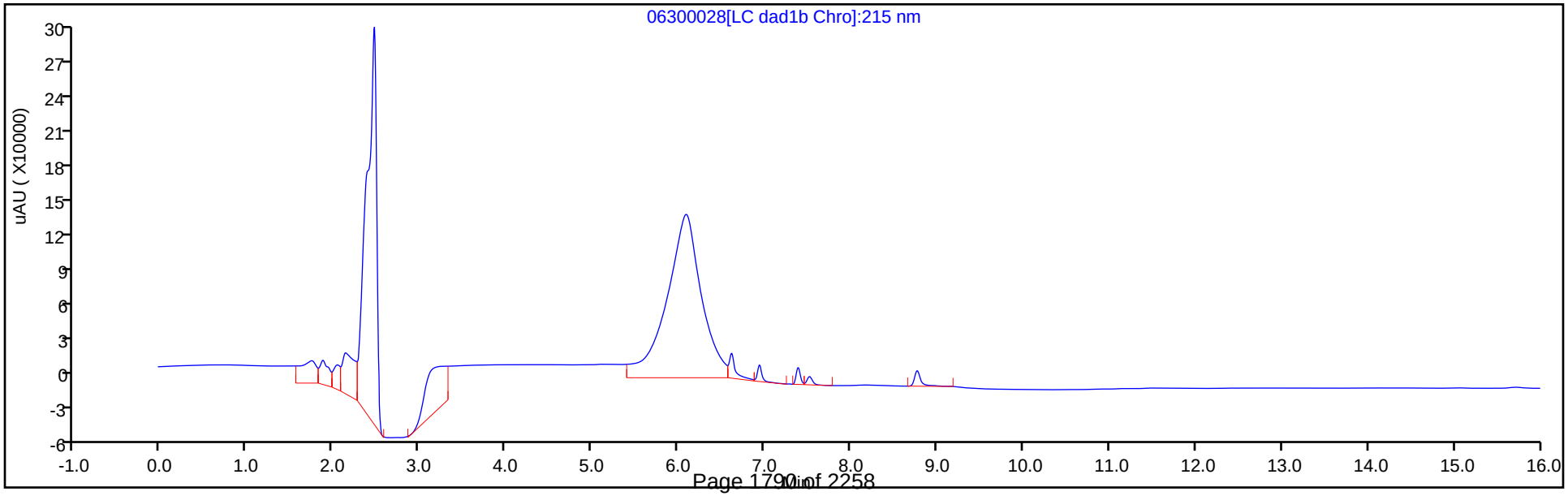
Data File: \\chromfs\denver\chromdata\chhplc_x\20200630-92909.b\06300028.d

Injection Date:	01-Jul-2020 02:23:05	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	LCSD 280-500616/5-A			Worklist Smp#:	28
Client ID:					
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\06300028.D				
Lims ID:	LCSD 280-500616/5-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	01-Jul-2020 02:23:05	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCSD 280-500616/				
Misc. Info.:	280-0092909-028				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200630-92909.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	01-Jul-2020 15:06:12	Calib Date:	26-Jun-2020 01:16:48		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200625-92750.b\06250013.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1062				

First Level Reviewer: zhangji Date: 01-Jul-2020 14:20:38

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.2106	105.32

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: PZ019-20A MS Lab Sample ID: 280-137736-9 MS

Matrix: Water Lab File ID: 06240024.D

Analysis Method: 8330A Date Collected: 06/16/2020 12:00

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 476.2(mL) Date Analyzed: 06/24/2020 22:47

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499988 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	2.45		0.22	0.21	0.088
99-65-0	1,3-Dinitrobenzene	2.40		0.12	0.10	0.039
118-96-7	2,4,6-Trinitrotoluene	2.43		0.12	0.10	0.047
121-14-2	2,4-Dinitrotoluene	2.19		0.10	0.084	0.029
606-20-2	2,6-Dinitrotoluene	2.25		0.10	0.084	0.042
35572-78-2	2-Amino-4,6-dinitrotoluene	2.08		0.12	0.10	0.053
88-72-2	2-Nitrotoluene	1.88		0.22	0.21	0.090
99-08-1	3-Nitrotoluene	2.10		0.42	0.42	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.90		0.16	0.13	0.061
99-99-0	4-Nitrotoluene	1.96		0.43	0.42	0.10
2691-41-0	HMX	2.23	M	0.22	0.21	0.092
98-95-3	Nitrobenzene	2.31		0.22	0.21	0.096
121-82-4	RDX	2.22	M	0.22	0.21	0.054
479-45-8	Tetryl	2.23		0.12	0.10	0.033

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	102		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240024.D
Lims ID: 280-137736-A-9-B MS
Client ID: PZ019-20A
Sample Type: MS
Inject. Date: 24-Jun-2020 22:47:17 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-9-B
Misc. Info.: 280-0092716-024
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:16 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:06:18

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
1	2,6-diamino-4-nitrotoluene	1	6.566	6.567	-0.001	6490		0.0258	M
2	TNX	1		6.617				ND	
3	HMX	1	6.712	6.712	0.000	18238	0.2000	0.2122	M
4	2,4-diamino-6-nitrotoluene	1		6.753				ND	
5	DNX	1		6.937				ND	
6	MNX	1		7.384				ND	MU
7	RDX	1	7.779	7.785	-0.006	24690	0.2000	0.2117	M
8	2,4,6-Trinitrophenol	1	8.052	8.085	-0.033	18804	0.2000	0.2209	M
$ 9	1,2-Dinitrobenzene	1	8.732	8.738	-0.006	28248	0.2000	0.2044	
10	1,3,5-Trinitrobenzene	1	8.912	8.918	-0.006	53735	0.2000	0.2333	
11	1,3-Dinitrobenzene	1	9.552	9.565	-0.013	70201	0.2000	0.2289	
12	Nitrobenzene	1	9.926	9.945	-0.019	44005	0.2000	0.2196	
13	3,5-Dinitroaniline	1		10.207				ND	
14	Tetryl	1	10.232	10.252	-0.020	37633	0.2000	0.2126	
15	Nitroglycerin	2	10.739	10.765	-0.026	146357	2.00	2.15	
16	2,4,6-Trinitrotoluene	1	11.199	11.225	-0.026	47273	0.2000	0.2317	
17	4-Amino-2,6-dinitrotoluene	1	11.359	11.385	-0.026	31075	0.2000	0.1807	
18	2-Amino-4,6-dinitrotoluene	1	11.652	11.678	-0.026	40212	0.2000	0.1983	
19	2,6-Dinitrotoluene	1	11.792	11.818	-0.026	31959	0.2000	0.2138	
20	2,4-Dinitrotoluene	1	11.992	12.018	-0.026	63462	0.2000	0.2090	
21	o-Nitrotoluene	1	12.806	12.845	-0.039	24182	0.2000	0.1791	
22	p-Nitrotoluene	1	13.232	13.272	-0.040	21106	0.2000	0.1868	
23	m-Nitrotoluene	1	13.819	13.865	-0.046	28631	0.2000	0.2002	
24	PETN	2	14.879	14.958	-0.079	161358	2.00	2.05	
25	Ammonium Picrate	1		0.000				ND	
26	Triamine Trinitrobenzene	1		0.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

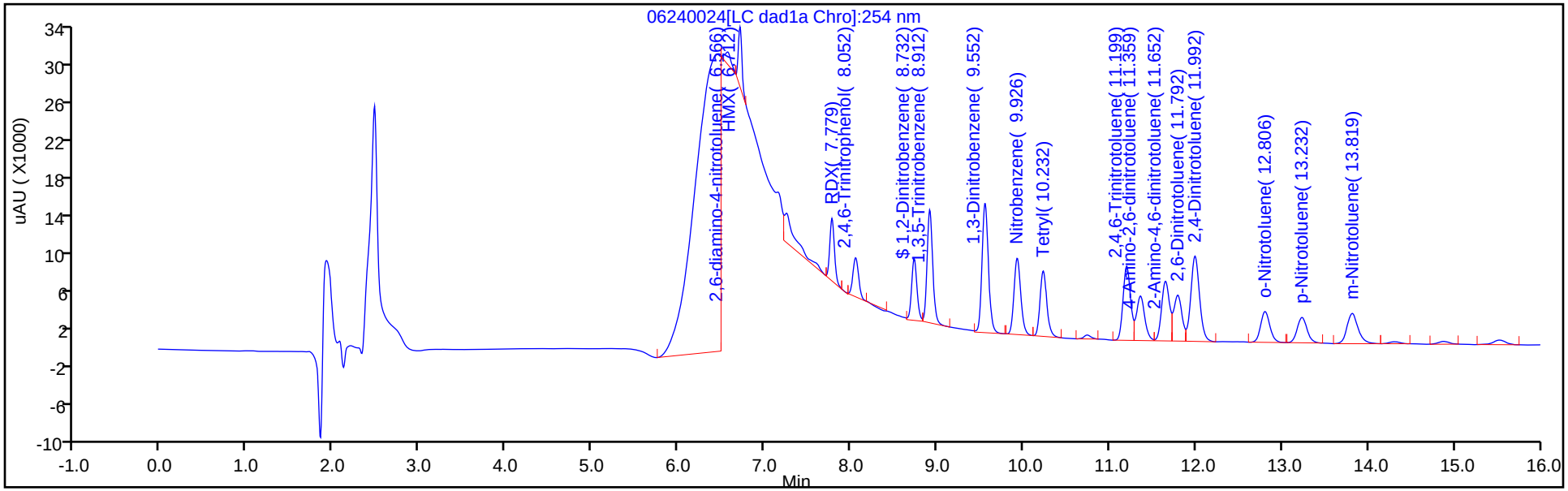
Report Date: 25-Jun-2020 21:10:18 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

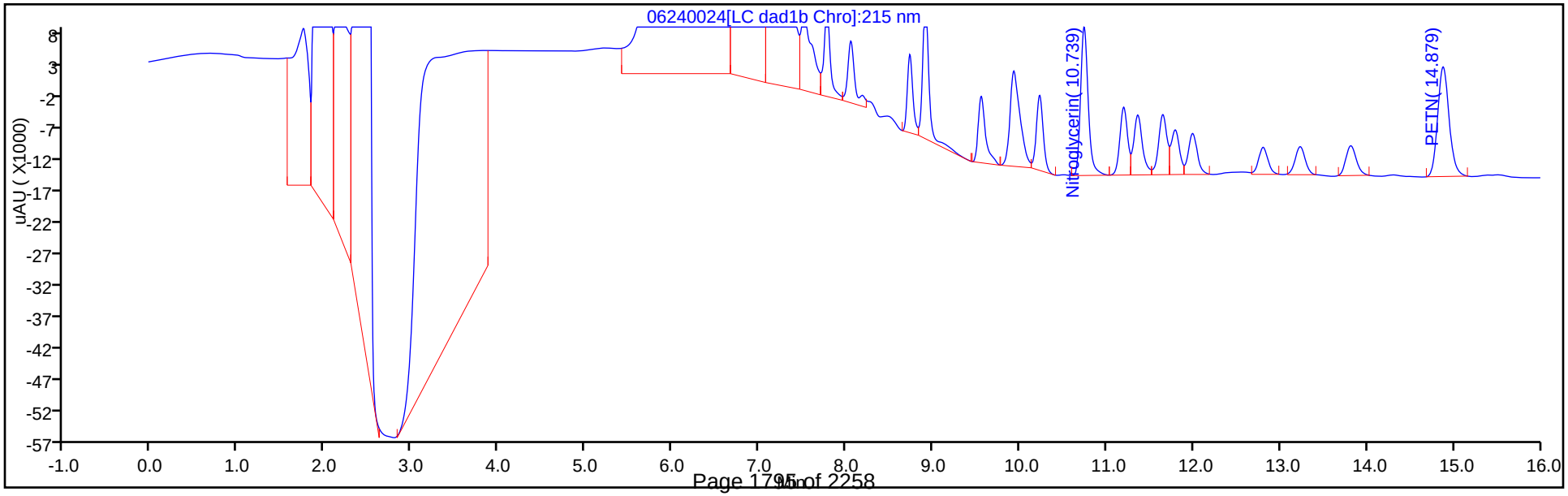
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240024.d

Injection Date:	24-Jun-2020 22:47:17	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-A-9-B MS			Worklist Smp#:	24
Client ID:	PZ019-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240024.D				
Lims ID:	280-137736-A-9-B MS				
Client ID:	PZ019-20A				
Sample Type:	MS				
Inject. Date:	24-Jun-2020 22:47:17	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-9-B				
Misc. Info.:	280-0092716-024				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	25-Jun-2020 21:10:16	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1063				
First Level Reviewer: zhangji		Date:	25-Jun-2020 16:06:18		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.2044	102.19

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

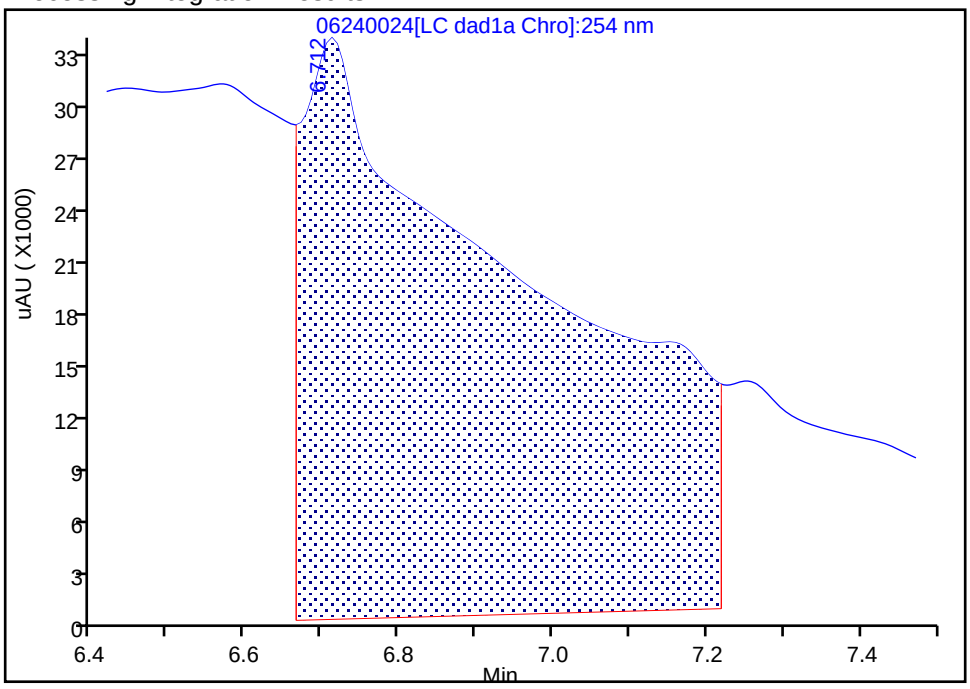
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240024.d				
Injection Date:	24-Jun-2020 22:47:17	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-9-B MS				
Client ID:	PZ019-20A				
Operator ID:	JZ	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

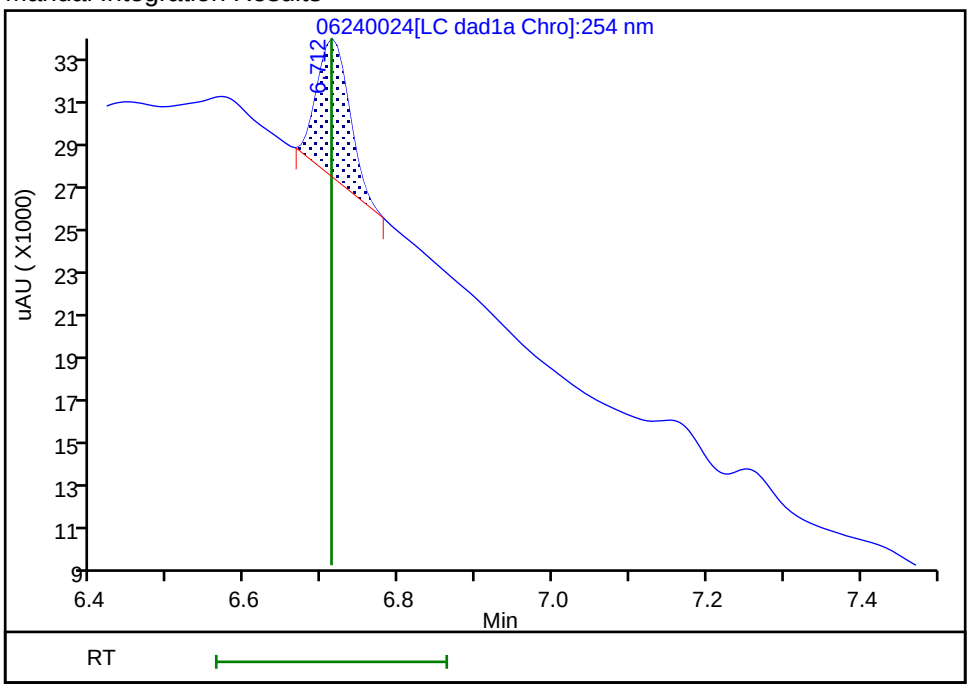
Processing Integration Results

RT: 6.71
Area: 682661
Amount: 7.941412
Amount Units: ug/mL



Manual Integration Results

RT: 6.71
Area: 18238
Amount: 0.212163
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:05:26

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

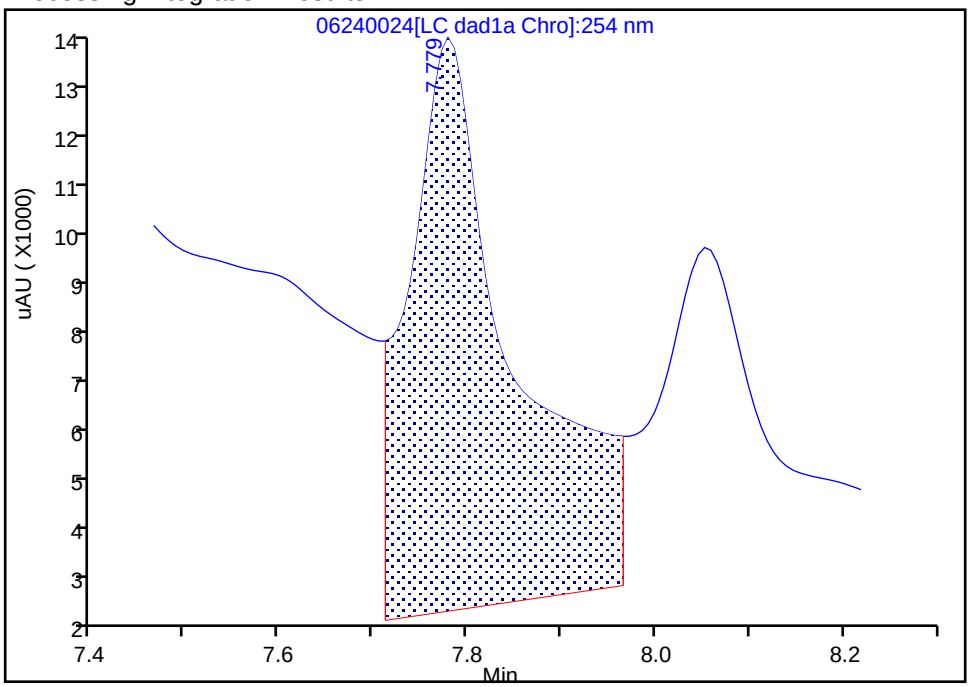
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240024.d				
Injection Date:	24-Jun-2020 22:47:17	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-9-B MS				
Client ID:	PZ019-20A				
Operator ID:	JZ	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

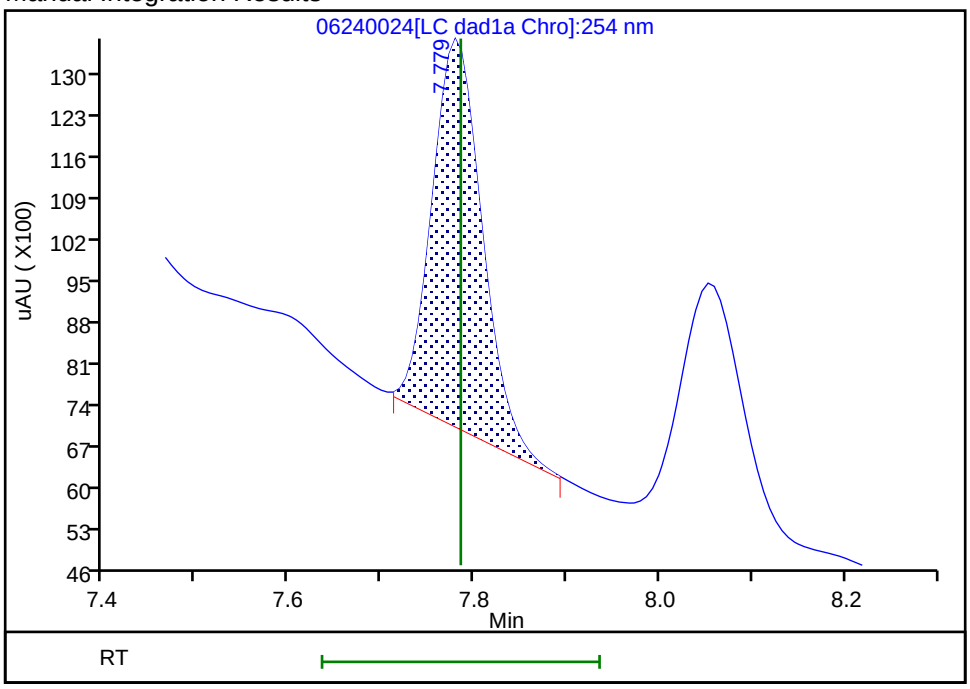
Processing Integration Results

RT: 7.78
Area: 86894
Amount: 0.745148
Amount Units: ug/mL



Manual Integration Results

RT: 7.78
Area: 24690
Amount: 0.211726
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:06:03
Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: PZ019-20A MS Lab Sample ID: 280-137736-9 MS

Matrix: Water Lab File ID: 06240026.D

Analysis Method: 8330A Date Collected: 06/16/2020 12:00

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 473.4(mL) Date Analyzed: 06/24/2020 23:33

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499988 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
5755-27-1	MNX	2.18	M	2.1	0.42	0.16

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	93	M	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240026.D
Lims ID: 280-137736-B-9-A MS
Client ID: PZ019-20A
Sample Type: MS
Inject. Date: 24-Jun-2020 23:33:14 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-B-9-A
Misc. Info.: 280-0092716-026
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:16 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:07:45

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
1	2,6-diamino-4-nitrotoluene	1		6.567				ND	U
2	TNX	1	6.622	6.617	0.005	43692	0.2002	0.2008	M
3	HMX	1		6.712				ND	
4	2,4-diamino-6-nitrotoluene	1		6.753				ND	
5	DNX	1	6.935	6.937	-0.002	28922	0.2002	0.1891	M
6	MNX	1	7.382	7.384	-0.002	32661	0.2334	0.2060	M
7	RDX	1		7.785				ND	
8	2,4,6-Trinitrophenol	1		8.085				ND	
$ 9	1,2-Dinitrobenzene	1	8.742	8.738	0.004	25677	0.2000	0.1858	M
10	1,3,5-Trinitrobenzene	1		8.918				ND	
11	1,3-Dinitrobenzene	1		9.565				ND	
12	Nitrobenzene	1		9.945				ND	
13	3,5-Dinitroaniline	1		10.207				ND	
14	Tetryl	1		10.252				ND	
15	Nitroglycerin	2		10.765				ND	
16	2,4,6-Trinitrotoluene	1		11.225				ND	
17	4-Amino-2,6-dinitrotoluene	1		11.385				ND	
18	2-Amino-4,6-dinitrotoluene	1		11.678				ND	
19	2,6-Dinitrotoluene	1		11.818				ND	
20	2,4-Dinitrotoluene	1		12.018				ND	
21	o-Nitrotoluene	1		12.845				ND	
22	p-Nitrotoluene	1		13.272				ND	
23	m-Nitrotoluene	1		13.865				ND	U
24	PETN	2		14.958				ND	
25	Ammonium Picrate	1		0.000				ND	
26	Triamine Trinitrobenzene	1		0.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

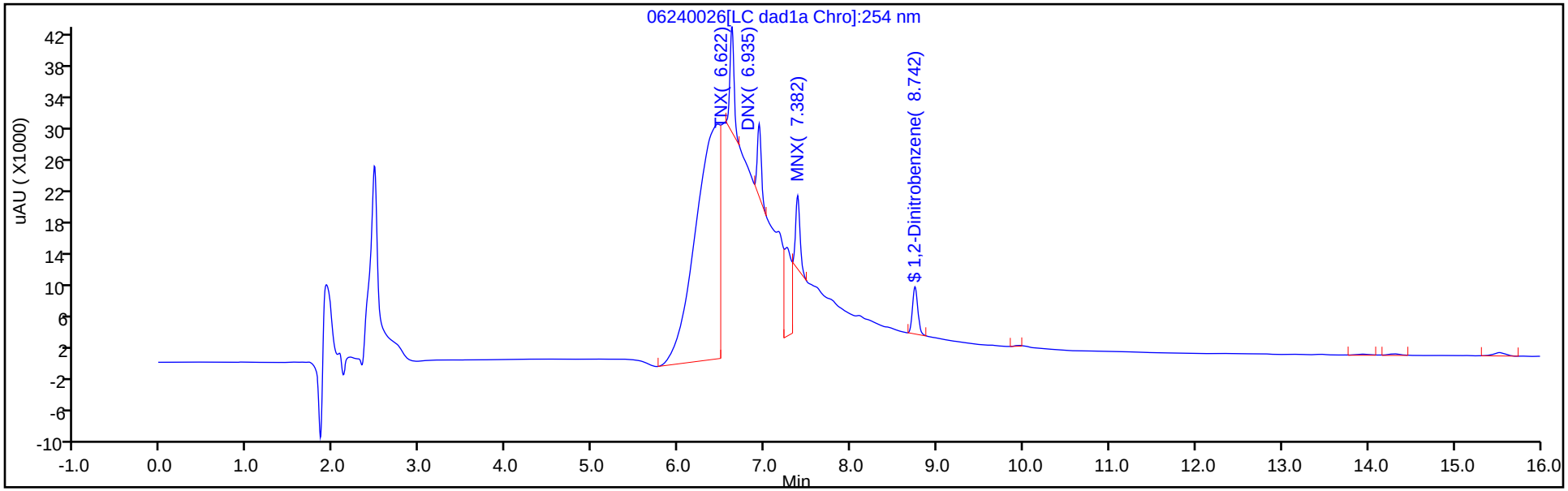
Report Date: 25-Jun-2020 21:10:19 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

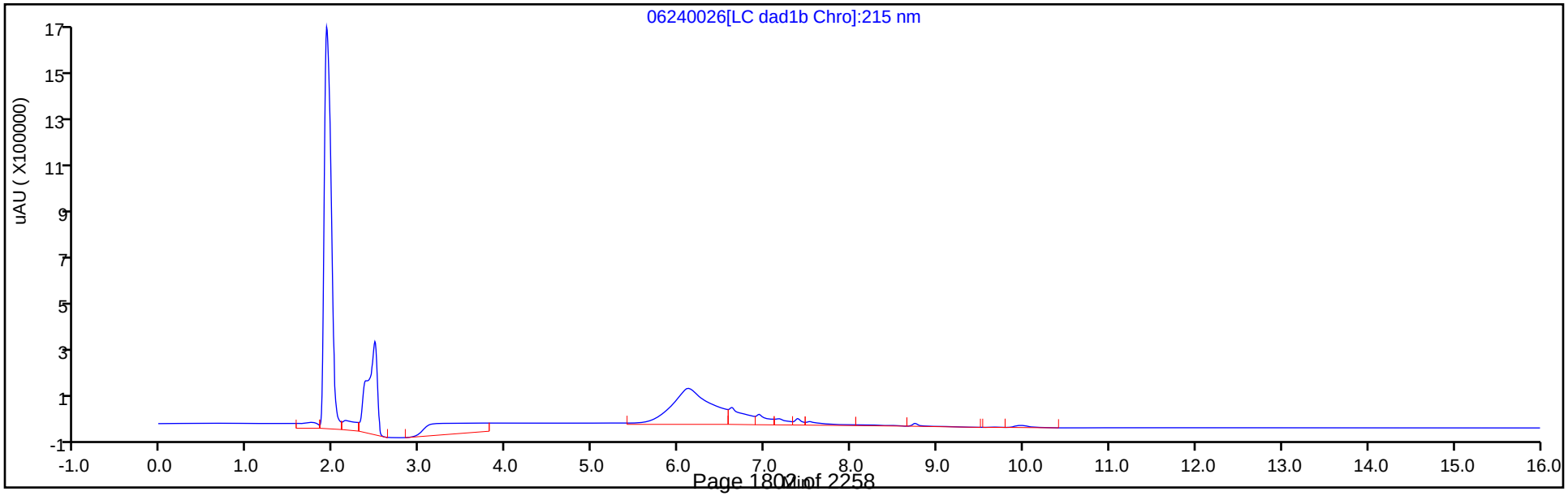
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240026.d

Injection Date:	24-Jun-2020 23:33:14	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-B-9-A MS			Worklist Smp#:	26
Client ID:	PZ019-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240026.D				
Lims ID:	280-137736-B-9-A MS				
Client ID:	PZ019-20A				
Sample Type:	MS				
Inject. Date:	24-Jun-2020 23:33:14	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-B-9-A				
Misc. Info.:	280-0092716-026				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	25-Jun-2020 21:10:16	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1063				
First Level Reviewer: zhangji		Date:	25-Jun-2020 16:07:45		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1858	92.89

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

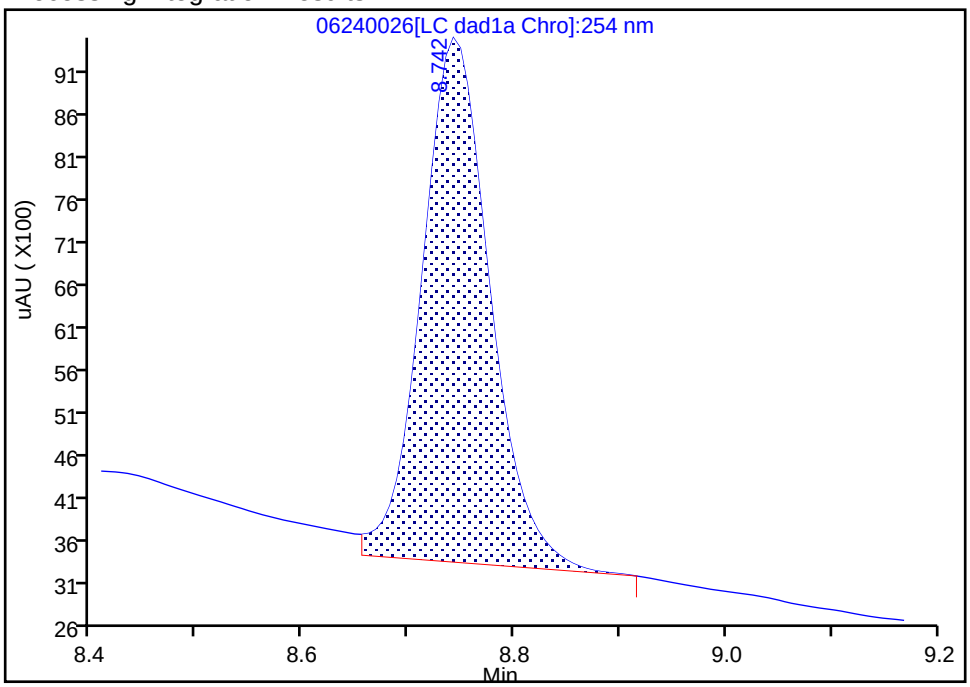
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240026.d				
Injection Date:	24-Jun-2020 23:33:14	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-9-A MS				
Client ID:	PZ019-20A				
Operator ID:	JZ	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

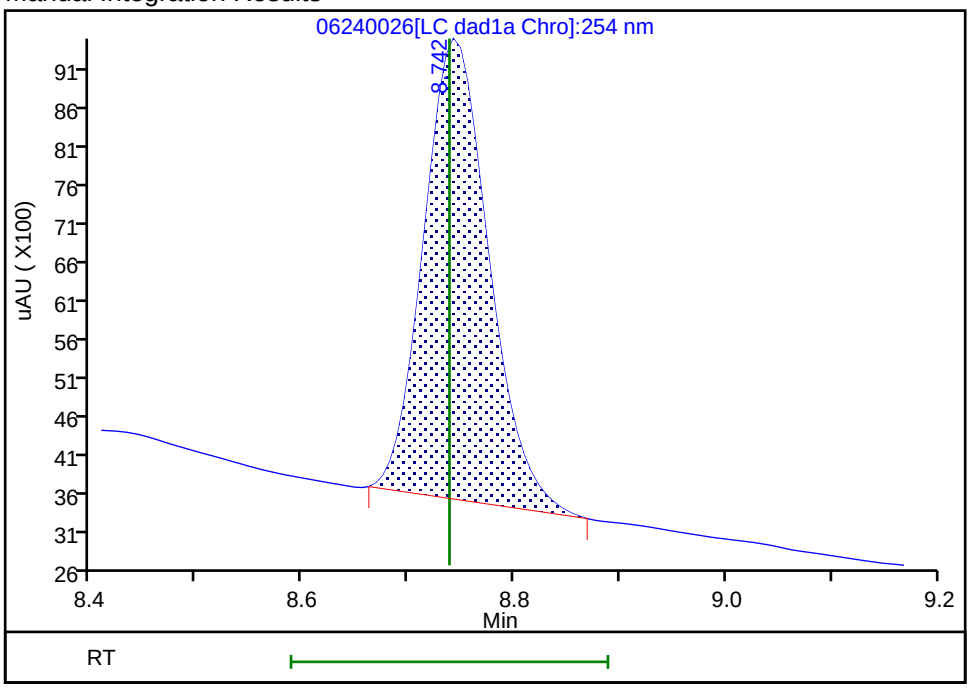
Processing Integration Results

RT: 8.74
Area: 27705
Amount: 0.200453
Amount Units: ug/mL



Manual Integration Results

RT: 8.74
Area: 25677
Amount: 0.185780
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:07:19

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

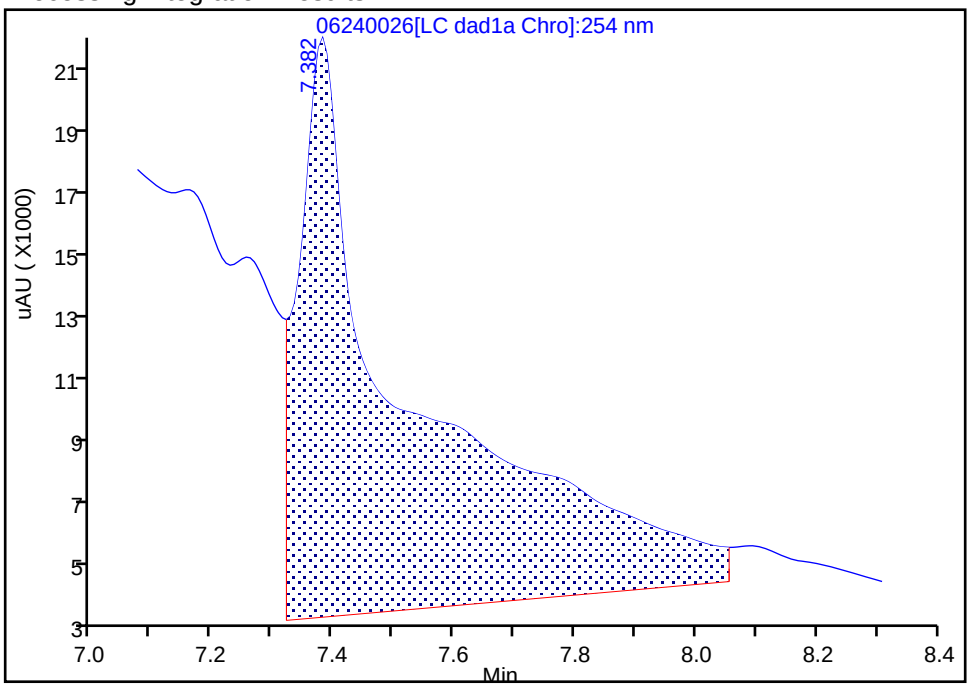
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240026.d				
Injection Date:	24-Jun-2020 23:33:14	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-9-A MS				
Client ID:	PZ019-20A				
Operator ID:	JZ	ALS Bottle#:	26	Worklist Smp#:	26
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

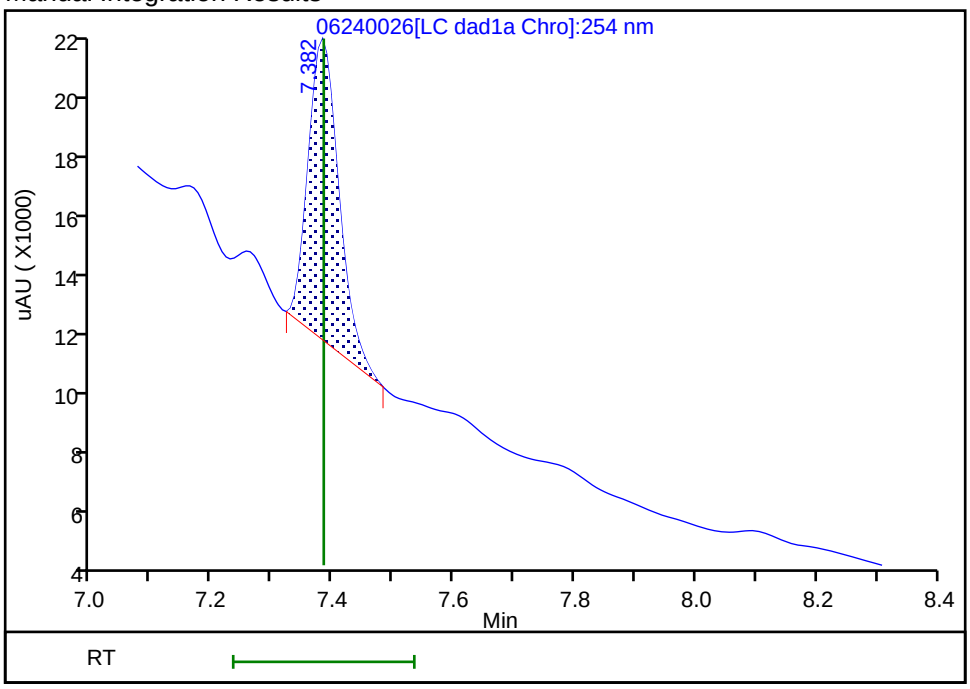
Processing Integration Results

RT: 7.38
Area: 227467
Amount: 1.434723
Amount Units: ug/mL



Manual Integration Results

RT: 7.38
Area: 32661
Amount: 0.206006
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:07:37

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: PZ019-20A MSD Lab Sample ID: 280-137736-9 MSD

Matrix: Water Lab File ID: 06240025.D

Analysis Method: 8330A Date Collected: 06/16/2020 12:00

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 475.6(mL) Date Analyzed: 06/24/2020 23:10

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499988 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	2.23		0.22	0.21	0.088
99-65-0	1,3-Dinitrobenzene	2.13		0.12	0.11	0.039
118-96-7	2,4,6-Trinitrotoluene	2.30		0.12	0.11	0.047
121-14-2	2,4-Dinitrotoluene	1.99		0.11	0.084	0.029
606-20-2	2,6-Dinitrotoluene	2.07		0.11	0.084	0.042
35572-78-2	2-Amino-4,6-dinitrotoluene	1.87		0.12	0.11	0.053
88-72-2	2-Nitrotoluene	1.66		0.22	0.21	0.090
99-08-1	3-Nitrotoluene	1.79	M	0.42	0.42	0.21
19406-51-0	4-Amino-2,6-dinitrotoluene	1.69		0.16	0.13	0.061
99-99-0	4-Nitrotoluene	1.76		0.43	0.42	0.11
2691-41-0	HMX	2.15	M	0.22	0.21	0.092
98-95-3	Nitrobenzene	1.95		0.22	0.21	0.096
121-82-4	RDX	2.13	M	0.22	0.21	0.054
479-45-8	Tetryl	2.14		0.12	0.11	0.033

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	90		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240025.D
Lims ID: 280-137736-A-9-C MSD
Client ID: PZ019-20A
Sample Type: MSD
Inject. Date: 24-Jun-2020 23:10:16 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-A-9-C
Misc. Info.: 280-0092716-025
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:16 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:07:10

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
1	2,6-diamino-4-nitrotoluene	1	6.572	6.567	0.005	6385		0.0254	M
2	TNX	1		6.617				ND	
3	HMX	1	6.718	6.712	0.006	17610	0.2000	0.2049	M
4	2,4-diamino-6-nitrotoluene	1		6.753				ND	
5	DNX	1		6.937				ND	
6	MNX	1		7.384				ND	MU
7	RDX	1	7.785	7.785	0.000	23601	0.2000	0.2024	M
8	2,4,6-Trinitrophenol	1	8.065	8.085	-0.020	18033	0.2000	0.2118	M
$ 9	1,2-Dinitrobenzene	1	8.745	8.738	0.007	24978	0.2000	0.1807	
10	1,3,5-Trinitrobenzene	1	8.925	8.918	0.007	48909	0.2000	0.2124	
11	1,3-Dinitrobenzene	1	9.565	9.565	0.000	62038	0.2000	0.2023	
12	Nitrobenzene	1	9.938	9.945	-0.007	37222	0.2000	0.1857	
13	3,5-Dinitroaniline	1		10.207				ND	
14	Tetryl	1	10.238	10.252	-0.014	35983	0.2000	0.2033	
15	Nitroglycerin	2	10.745	10.765	-0.020	134605	2.00	1.98	
16	2,4,6-Trinitrotoluene	1	11.205	11.225	-0.020	44602	0.2000	0.2186	
17	4-Amino-2,6-dinitrotoluene	1	11.365	11.385	-0.020	27527	0.2000	0.1608	
18	2-Amino-4,6-dinitrotoluene	1	11.658	11.678	-0.020	36017	0.2000	0.1776	
19	2,6-Dinitrotoluene	1	11.798	11.818	-0.020	29451	0.2000	0.1971	
20	2,4-Dinitrotoluene	1	11.992	12.018	-0.026	57389	0.2000	0.1890	
21	o-Nitrotoluene	1	12.812	12.845	-0.033	21369	0.2000	0.1582	
22	p-Nitrotoluene	1	13.238	13.272	-0.034	18871	0.2000	0.1670	
23	m-Nitrotoluene	1	13.818	13.865	-0.047	24311	0.2000	0.1700	M
24	PETN	2	14.892	14.958	-0.066	154789	2.00	1.97	
25	Ammonium Picrate	1		0.000				ND	
26	Triamine Trinitrobenzene	1		0.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

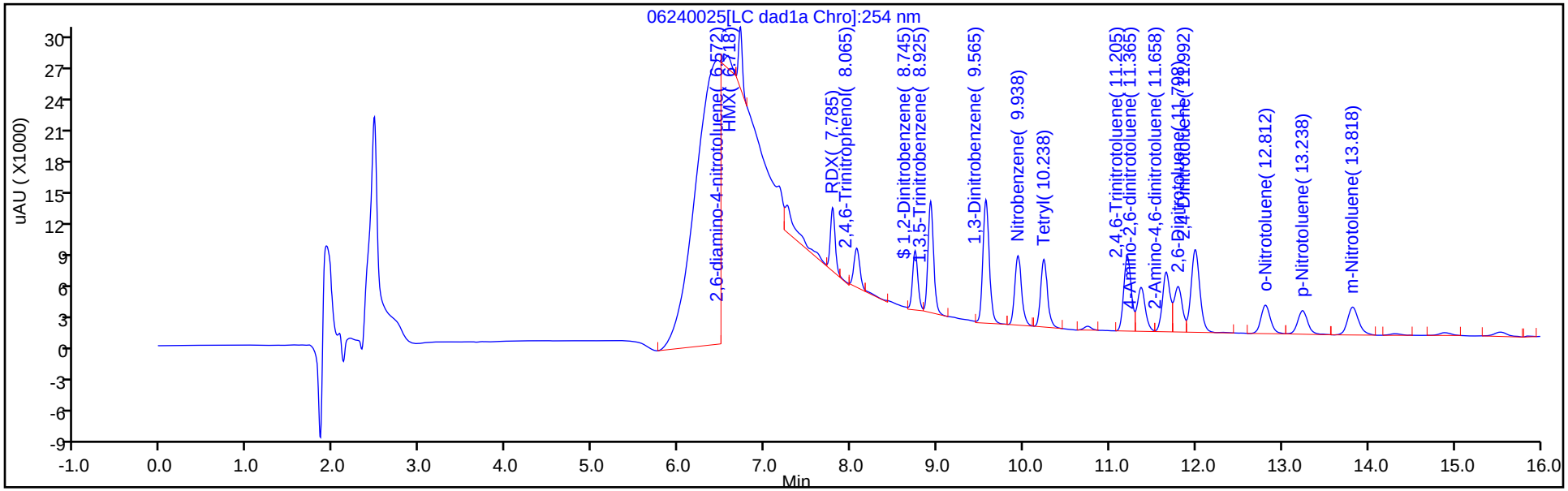
Report Date: 25-Jun-2020 21:10:19 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

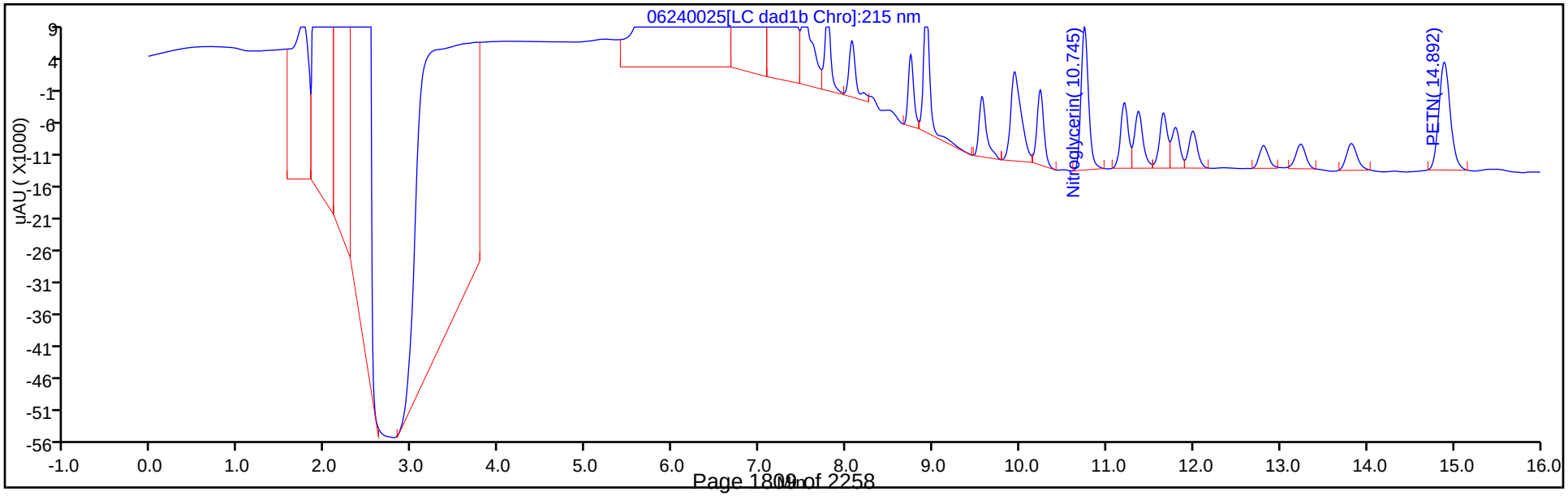
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240025.d

Injection Date:	24-Jun-2020 23:10:16	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-A-9-C MSD			Worklist Smp#:	25
Client ID:	PZ019-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240025.D				
Lims ID:	280-137736-A-9-C MSD				
Client ID:	PZ019-20A				
Sample Type:	MSD				
Inject. Date:	24-Jun-2020 23:10:16	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-A-9-C				
Misc. Info.:	280-0092716-025				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	25-Jun-2020 21:10:16	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1063				
First Level Reviewer: zhangji		Date:	25-Jun-2020 16:07:10		

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1807	90.36

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

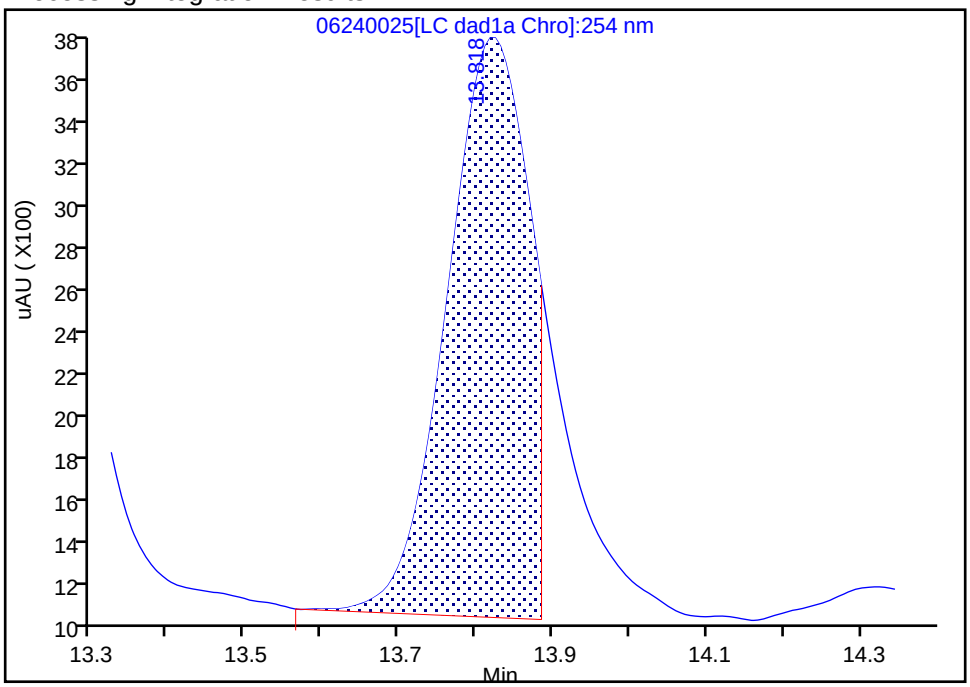
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240025.d				
Injection Date:	24-Jun-2020 23:10:16	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-9-C MSD				
Client ID:	PZ019-20A				
Operator ID:	JZ	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

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

Signal: 1

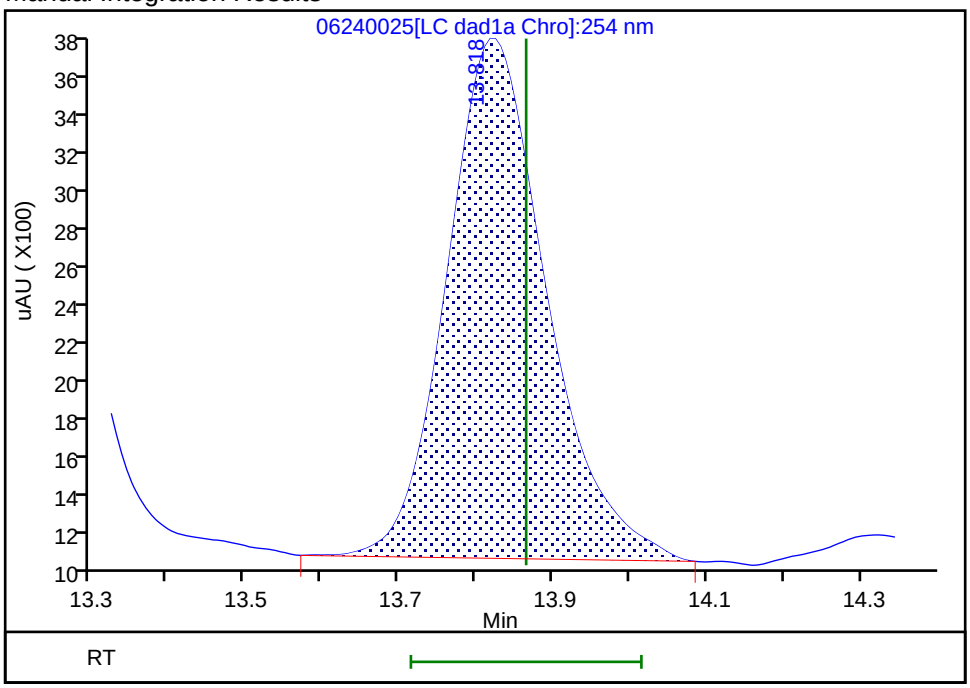
Processing Integration Results

RT: 13.82
Area: 19842
Amount: 0.138727
Amount Units: ug/mL



Manual Integration Results

RT: 13.82
Area: 24311
Amount: 0.169973
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:07:04

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

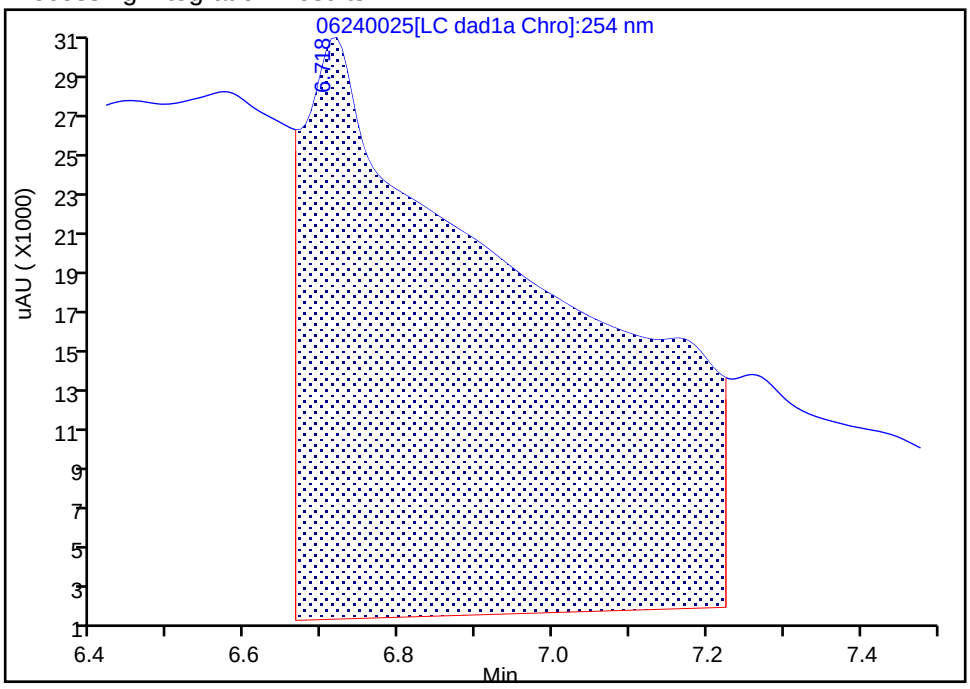
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240025.d				
Injection Date:	24-Jun-2020 23:10:16	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-9-C MSD				
Client ID:	PZ019-20A				
Operator ID:	JZ	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

3 HMX, CAS: 2691-41-0

Signal: 1

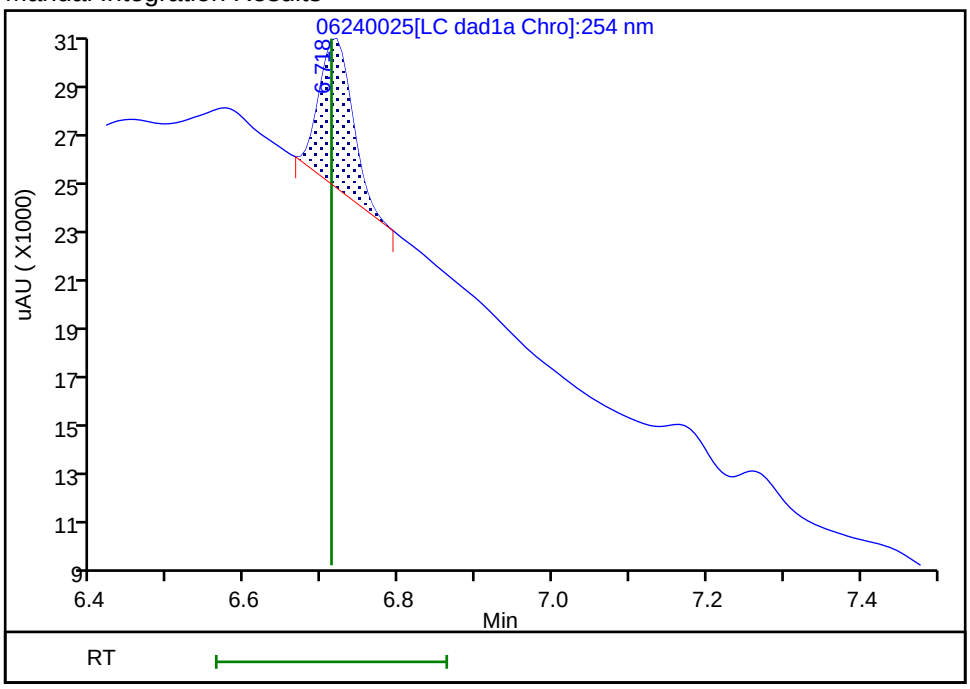
Processing Integration Results

RT: 6.72
Area: 629172
Amount: 7.319173
Amount Units: ug/mL



Manual Integration Results

RT: 6.72
Area: 17610
Amount: 0.204858
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:06:32

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

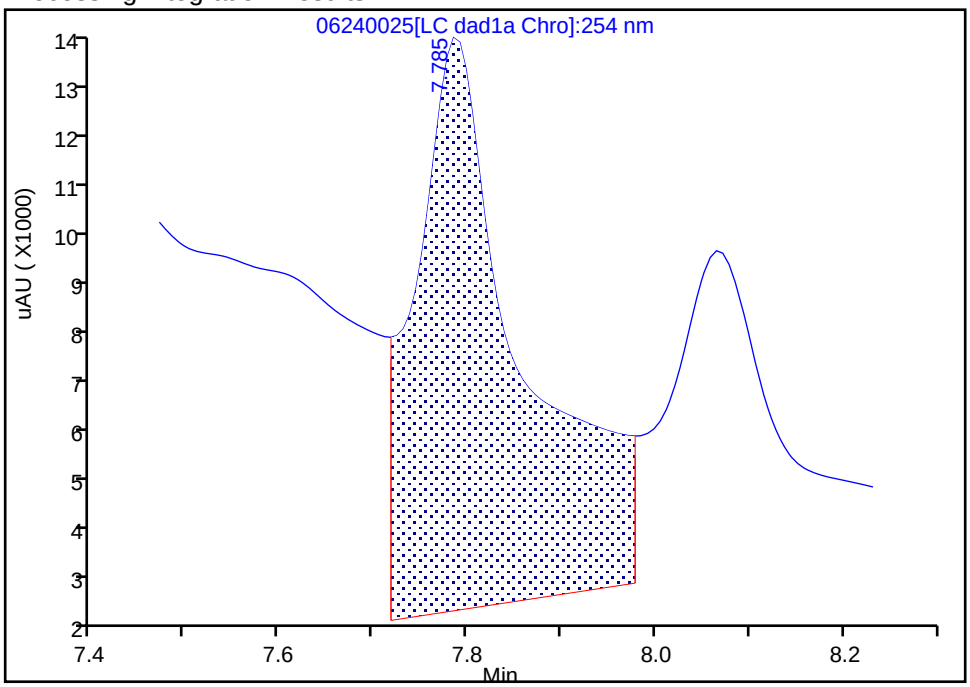
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240025.d				
Injection Date:	24-Jun-2020 23:10:16	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-A-9-C MSD				
Client ID:	PZ019-20A				
Operator ID:	JZ	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

7 RDX, CAS: 121-82-4

Signal: 1

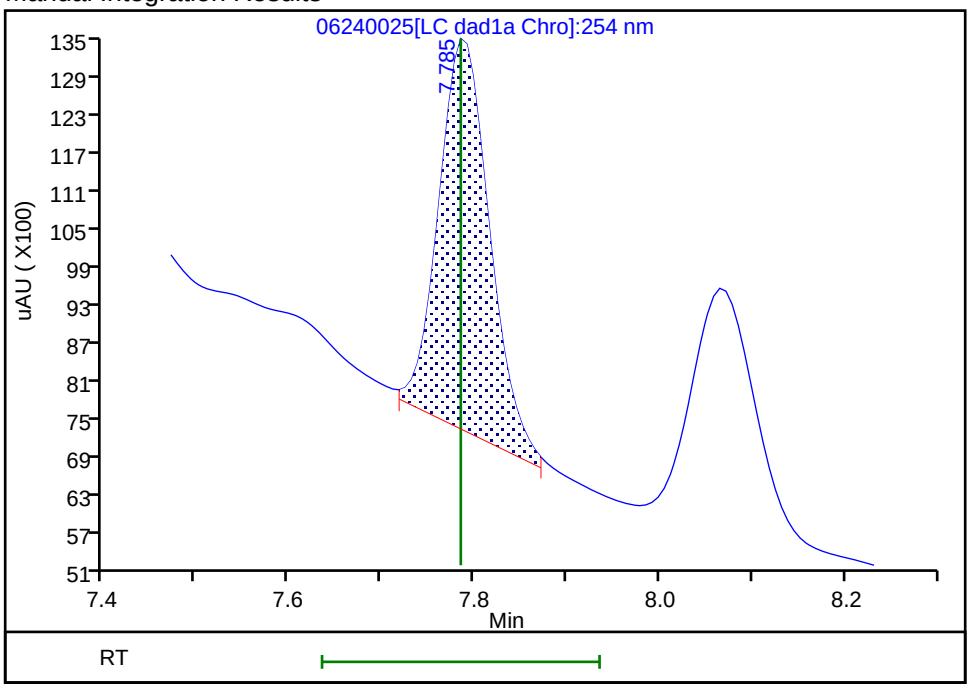
Processing Integration Results

RT: 7.79
Area: 83585
Amount: 0.716772
Amount Units: ug/mL



Manual Integration Results

RT: 7.79
Area: 23601
Amount: 0.202387
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:06:47
Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Client Sample ID: PZ019-20A MSD Lab Sample ID: 280-137736-9 MSD

Matrix: Water Lab File ID: 06240027.D

Analysis Method: 8330A Date Collected: 06/16/2020 12:00

Extraction Method: 3535 Date Extracted: 06/20/2020 17:13

Sample wt/vol: 473.1(mL) Date Analyzed: 06/24/2020 23:56

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 100(uL) GC Column: UltraCarb5uODS ID: 4.6(mm)

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

Analysis Batch No.: 499988 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
5755-27-1	MNX	2.08	J M	2.1	0.42	0.16

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	89	M	83-119

Report Date: 25-Jun-2020 21:10:20 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240027.D
Lims ID: 280-137736-B-9-B MSD
Client ID: PZ019-20A
Sample Type: MSD
Inject. Date: 24-Jun-2020 23:56:11 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 100.0 ul Dil. Factor: 1.0000
Sample Info: 280-137736-B-9-B
Misc. Info.: 280-0092716-027
Operator ID: JZ Instrument ID: CHHPLC_X3

Method: \\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m
Limit Group: GCSV - 8330
Last Update: 25-Jun-2020 21:10:16 Calib Date: 18-Mar-2020 14:39:27
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D

Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
Process Host: CTX1063

First Level Reviewer: zhangji Date: 25-Jun-2020 16:08:15

	Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
	1 2,6-diamino-4-nitrotoluene	1		6.567				ND	U
	2 TNX	1	6.620	6.617	0.003	43900	0.2002	0.2017	M
	3 HMX	1		6.712				ND	
	4 2,4-diamino-6-nitrotoluene	1		6.753				ND	
	5 DNX	1	6.933	6.937	-0.004	28547	0.2002	0.1867	M
	6 MNX	1	7.380	7.384	-0.004	31193	0.2334	0.1967	M
	7 RDX	1		7.785				ND	
	8 2,4,6-Trinitrophenol	1		8.085				ND	
$	9 1,2-Dinitrobenzene	1	8.733	8.738	-0.005	24503	0.2000	0.1773	M
	10 1,3,5-Trinitrobenzene	1		8.918				ND	
	11 1,3-Dinitrobenzene	1		9.565				ND	
	12 Nitrobenzene	1		9.945				ND	
	13 3,5-Dinitroaniline	1		10.207				ND	
	14 Tetryl	1		10.252				ND	
	15 Nitroglycerin	2		10.765				ND	
	16 2,4,6-Trinitrotoluene	1		11.225				ND	
	17 4-Amino-2,6-dinitrotoluene	1		11.385				ND	
	18 2-Amino-4,6-dinitrotoluene	1		11.678				ND	
	19 2,6-Dinitrotoluene	1		11.818				ND	
	20 2,4-Dinitrotoluene	1		12.018				ND	
	21 o-Nitrotoluene	1		12.845				ND	
	22 p-Nitrotoluene	1		13.272				ND	
	23 m-Nitrotoluene	1		13.865				ND	U
	24 PETN	2		14.958				ND	
	25 Ammonium Picrate	1		0.000				ND	
	26 Triamine Trinitrobenzene	1		0.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

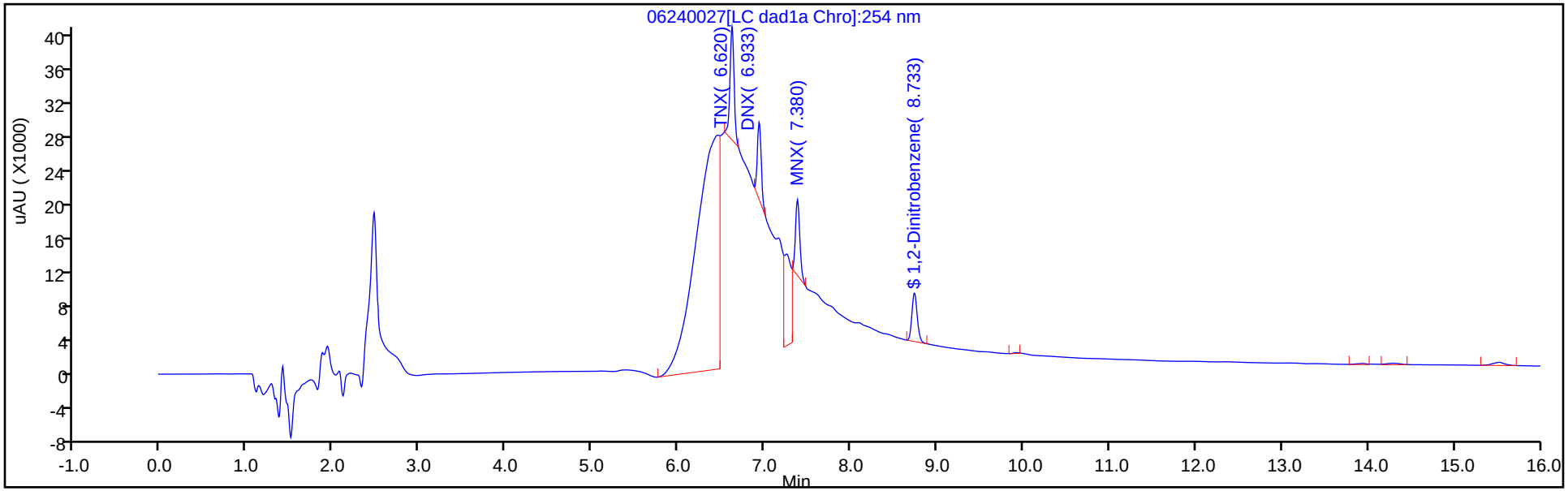
Report Date: 25-Jun-2020 21:10:20 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

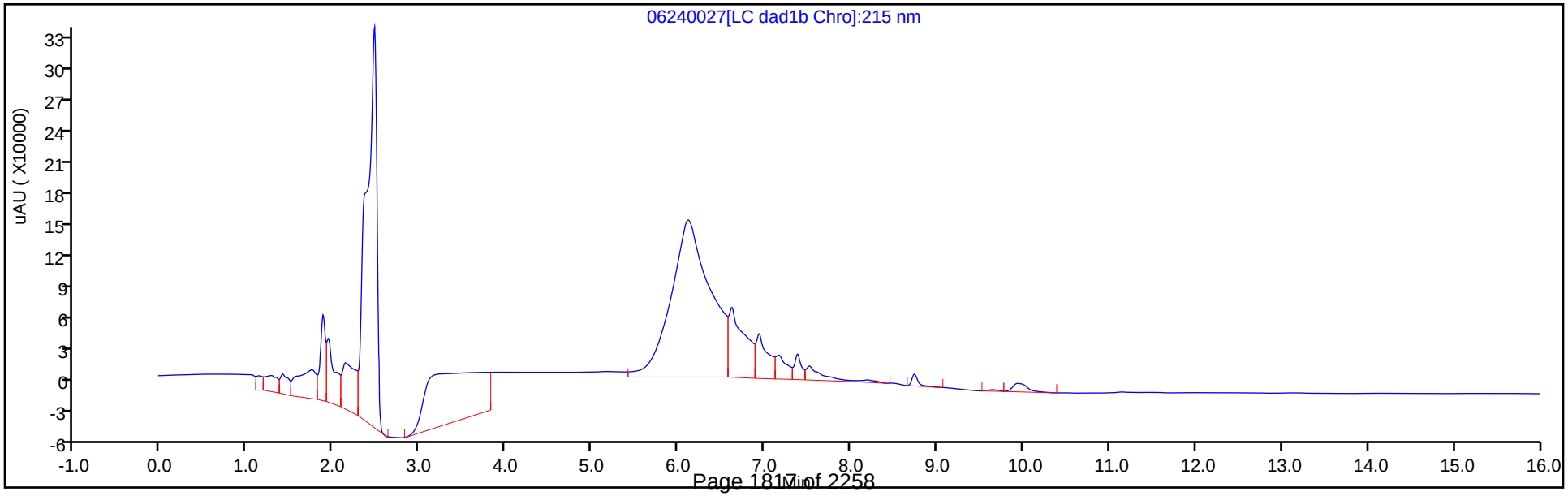
Data File: \\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240027.d

Injection Date:	24-Jun-2020 23:56:11	Instrument ID:	CHHPLC_X3	Operator ID:	JZ
Lims ID:	280-137736-B-9-B MSD			Worklist Smp#:	27
Client ID:	PZ019-20A				
Injection Vol:	100.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	8330_X3	Limit Group:	GCSV - 8330		

Column: UltraCarb5uODS (20) (4.60 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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



Eurofins TestAmerica, Denver
Recovery Report

Data File:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\06240027.D				
Lims ID:	280-137736-B-9-B MSD				
Client ID:	PZ019-20A				
Sample Type:	MSD				
Inject. Date:	24-Jun-2020 23:56:11	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-137736-B-9-B				
Misc. Info.:	280-0092716-027				
Operator ID:	JZ	Instrument ID:	CHHPLC_X3		
Method:	\\chromfs\Denver\ChromData\CHHPLC_X\20200624-92716.b\8330_X3.m				
Limit Group:	GCSV - 8330				
Last Update:	25-Jun-2020 21:10:16	Calib Date:	18-Mar-2020 14:39:27		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Denver\ChromData\CHHPLC_X\20200318-90159.b\03180015.D				
Column 1 :	UltraCarb5uODS (20) (4.60 mm)		Det: LC DAD1B, 254 nm		
Process Host:	CTX1063				

First Level Reviewer: zhangji Date: 25-Jun-2020 16:08:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1,2-Dinitrobenzene	0.2000	0.1773	88.64

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

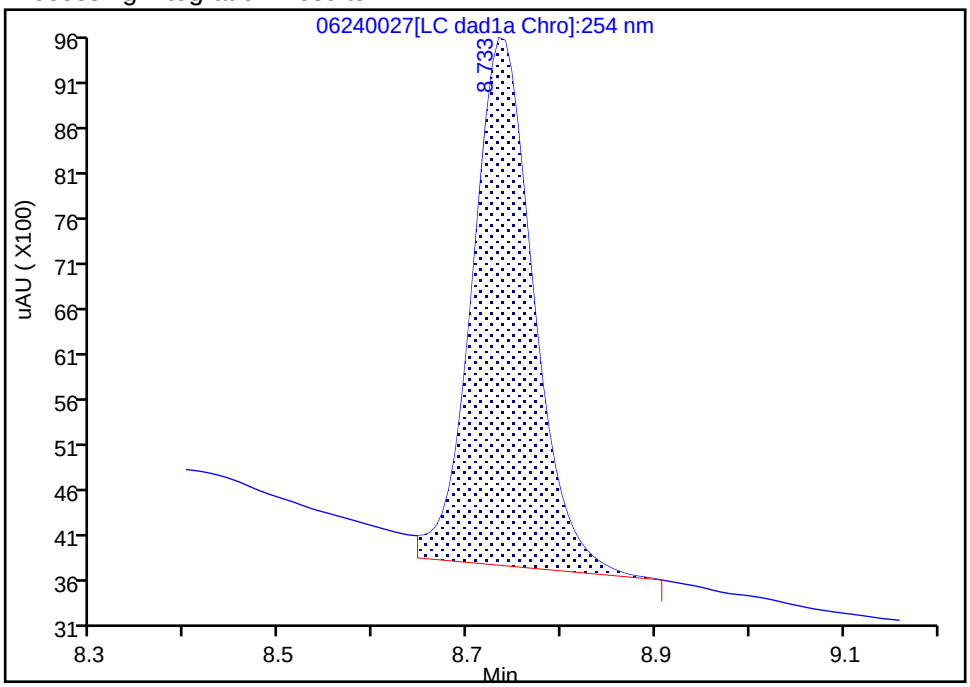
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240027.d				
Injection Date:	24-Jun-2020 23:56:11	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-9-B MSD				
Client ID:	PZ019-20A				
Operator ID:	JZ	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

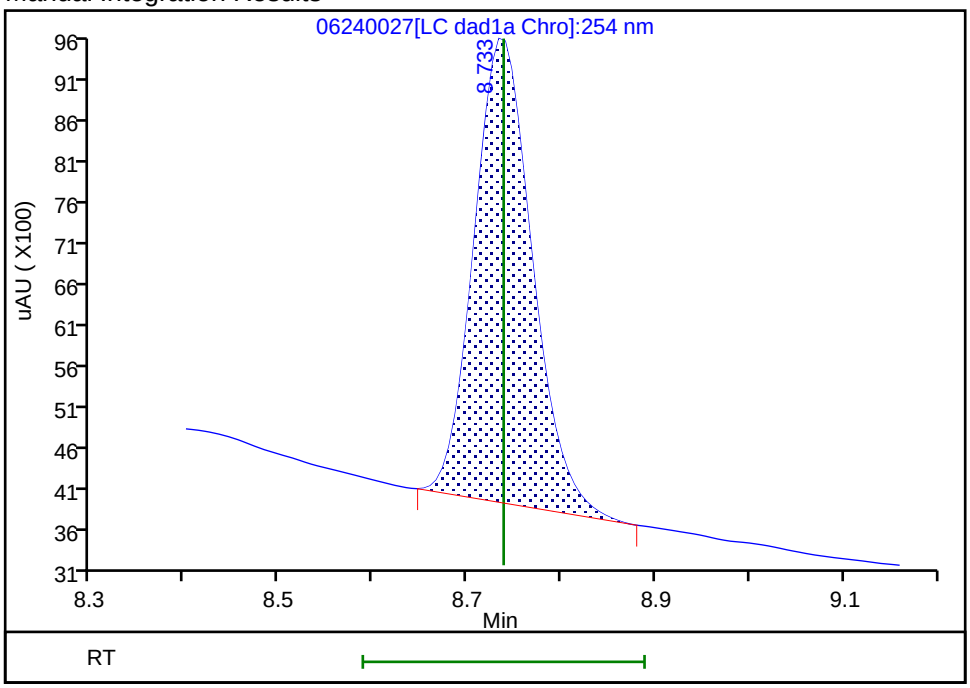
Processing Integration Results

RT: 8.73
Area: 26353
Amount: 0.190671
Amount Units: ug/mL



Manual Integration Results

RT: 8.73
Area: 24503
Amount: 0.177285
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:08:10

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Denver

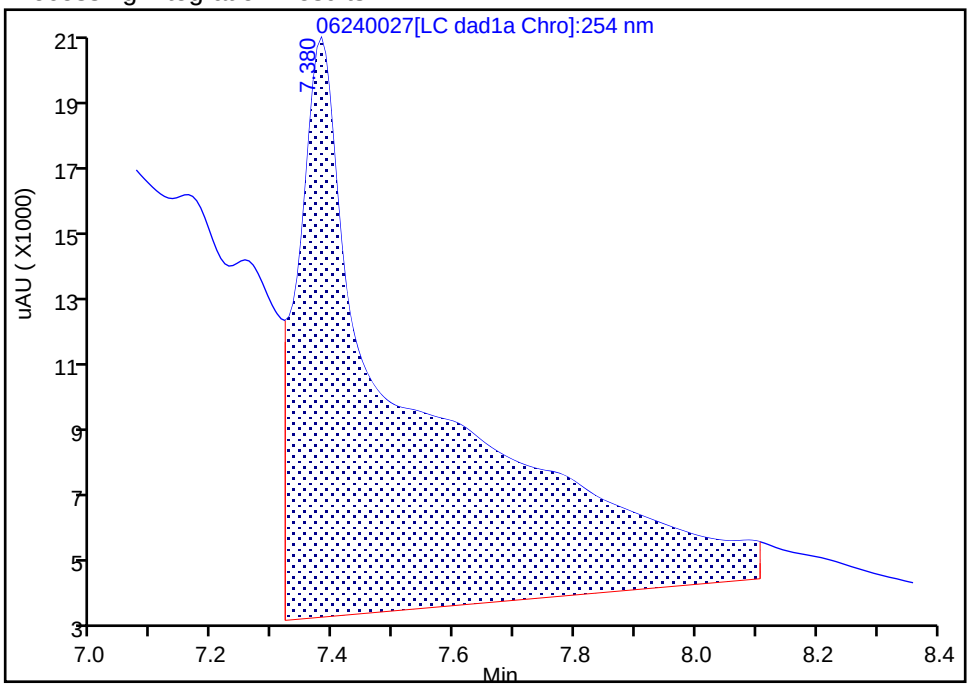
Data File:	\\chromfs\denver\chromdata\chhplc_x\20200624-92716.b\06240027.d				
Injection Date:	24-Jun-2020 23:56:11	Instrument ID:	CHHPLC_X3		
Lims ID:	280-137736-B-9-B MSD				
Client ID:	PZ019-20A				
Operator ID:	JZ	ALS Bottle#:	27	Worklist Smp#:	27
Injection Vol:	100.0 ul	Dil. Factor:	1.0000		
Method:	8330_X3	Limit Group:	GCSV - 8330		
Column:	UltraCarb5uODS (20) (4.60 mm)	Detector	LC DAD1B, 254 nm		

6 MNX, CAS: 5755-27-1

Signal: 1

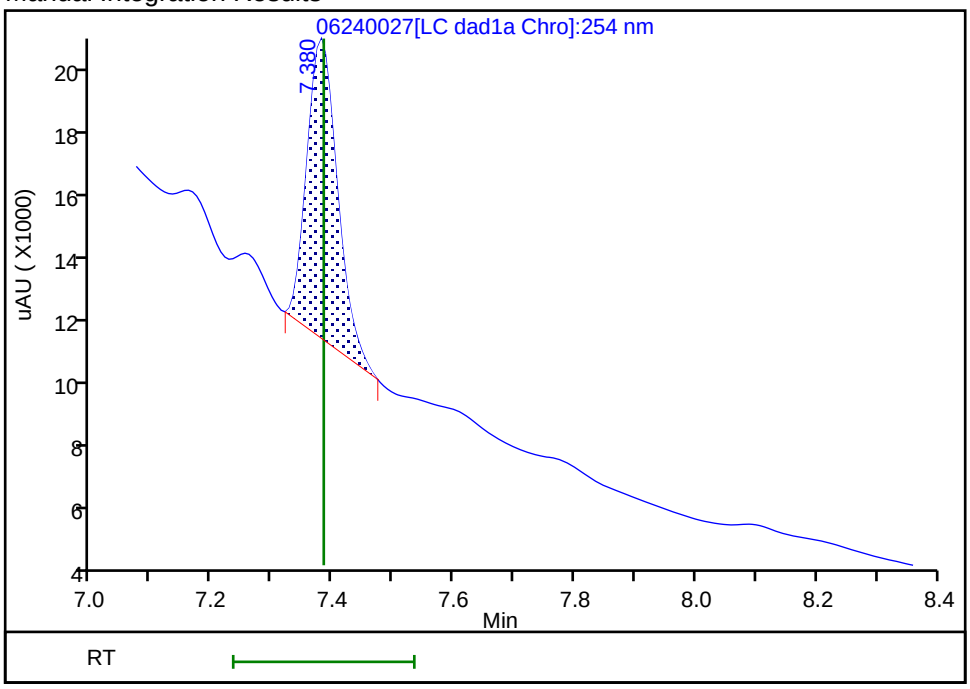
Processing Integration Results

RT: 7.38
Area: 227505
Amount: 1.434963
Amount Units: ug/mL



Manual Integration Results

RT: 7.38
Area: 31193
Amount: 0.196746
Amount Units: ug/mL



Reviewer: zhangji, 25-Jun-2020 16:08:06

Audit Action: Manually Integrated Audit Reason: Baseline

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 03/04/2020 14:07

Analysis Batch Number: 487658 End Date: 03/05/2020 00:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 280-487658/7		03/04/2020 14:07	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/8		03/04/2020 14:30	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/9		03/04/2020 14:53	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/10		03/04/2020 15:16	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/11		03/04/2020 15:39	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/12		03/04/2020 16:01	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/13		03/04/2020 16:24	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/14		03/04/2020 16:47	1		UltraCarb5uODS 4.6(mm)
ICV 280-487658/15		03/04/2020 17:10	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/16		03/04/2020 17:33	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/17		03/04/2020 17:56	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/18		03/04/2020 18:19	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/19		03/04/2020 18:42	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/20		03/04/2020 19:05	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/21		03/04/2020 19:28	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/22		03/04/2020 19:51	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/23		03/04/2020 20:14	1		UltraCarb5uODS 4.6(mm)
ICV 280-487658/24		03/04/2020 20:37	1		UltraCarb5uODS 4.6(mm)
IC 280-487658/25		03/04/2020 21:00	1	03040025.D	UltraCarb5uODS 4.6(mm)
IC 280-487658/26		03/04/2020 21:23	1	03040026.D	UltraCarb5uODS 4.6(mm)
IC 280-487658/27		03/04/2020 21:45	1	03040027.D	UltraCarb5uODS 4.6(mm)
IC 280-487658/28		03/04/2020 22:09	1	03040028.D	UltraCarb5uODS 4.6(mm)
IC 280-487658/29		03/04/2020 22:31	1	03040029.D	UltraCarb5uODS 4.6(mm)
IC 280-487658/30		03/04/2020 22:54	1	03040030.D	UltraCarb5uODS 4.6(mm)
IC 280-487658/31		03/04/2020 23:17	1	03040031.D	UltraCarb5uODS 4.6(mm)
IC 280-487658/32		03/04/2020 23:40	1	03040032.D	UltraCarb5uODS 4.6(mm)
ICV 280-487658/33		03/05/2020 00:03	1	03040033.D	UltraCarb5uODS 4.6(mm)

8330A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 03/18/2020 11:35

Analysis Batch Number: 489145 End Date: 03/18/2020 15:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 280-489145/7		03/18/2020 11:35	1	03180007.D	UltraCarb5uODS 4.6(mm)
IC 280-489145/8		03/18/2020 11:58	1	03180008.D	UltraCarb5uODS 4.6(mm)
IC 280-489145/9		03/18/2020 12:21	1	03180009.D	UltraCarb5uODS 4.6(mm)
IC 280-489145/10		03/18/2020 12:44	1	03180010.D	UltraCarb5uODS 4.6(mm)
IC 280-489145/11		03/18/2020 13:07	1	03180011.D	UltraCarb5uODS 4.6(mm)
IC 280-489145/12		03/18/2020 13:30	1	03180012.D	UltraCarb5uODS 4.6(mm)
IC 280-489145/13		03/18/2020 13:53	1	03180013.D	UltraCarb5uODS 4.6(mm)
IC 280-489145/14		03/18/2020 14:16	1	03180014.D	UltraCarb5uODS 4.6(mm)
IC 280-489145/15		03/18/2020 14:39	1	03180015.D	UltraCarb5uODS 4.6(mm)
ICV 280-489145/16		03/18/2020 15:02	1	03180016.D	UltraCarb5uODS 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Start Date: 05/14/2020 16:16

Analysis Batch Number: 494886 End Date: 05/15/2020 20:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 280-494886/7		05/14/2020 16:16	1	05140007.D	Luna-phenylhex 4.6(mm)
IC 280-494886/8		05/14/2020 16:51	1	05140008.D	Luna-phenylhex 4.6(mm)
IC 280-494886/9		05/14/2020 17:26	1	05140009.D	Luna-phenylhex 4.6(mm)
IC 280-494886/10		05/14/2020 18:01	1	05140010.D	Luna-phenylhex 4.6(mm)
IC 280-494886/11		05/14/2020 18:36	1	05140011.D	Luna-phenylhex 4.6(mm)
IC 280-494886/12		05/14/2020 19:11	1	05140012.D	Luna-phenylhex 4.6(mm)
IC 280-494886/13		05/14/2020 19:46	1	05140013.D	Luna-phenylhex 4.6(mm)
IC 280-494886/14		05/14/2020 20:21	1	05140014.D	Luna-phenylhex 4.6(mm)
IC 280-494886/15		05/14/2020 20:56	1	05140015.D	Luna-phenylhex 4.6(mm)
ICV 280-494886/16		05/14/2020 21:31	1	05140016.D	Luna-phenylhex 4.6(mm)
IC 280-494886/17		05/14/2020 22:06	1	05140017.D	Luna-phenylhex 4.6(mm)
IC 280-494886/18		05/14/2020 22:41	1	05140018.D	Luna-phenylhex 4.6(mm)
IC 280-494886/19		05/14/2020 23:16	1	05140019.D	Luna-phenylhex 4.6(mm)
IC 280-494886/20		05/14/2020 23:51	1	05140020.D	Luna-phenylhex 4.6(mm)
IC 280-494886/21		05/15/2020 00:26	1	05140021.D	Luna-phenylhex 4.6(mm)
IC 280-494886/22		05/15/2020 01:01	1	05140022.D	Luna-phenylhex 4.6(mm)
IC 280-494886/23		05/15/2020 01:36	1	05140023.D	Luna-phenylhex 4.6(mm)
IC 280-494886/24		05/15/2020 02:11	1	05140024.D	Luna-phenylhex 4.6(mm)
IC 280-494886/25		05/15/2020 02:46	1		Luna-phenylhex 4.6(mm)
ICV 280-494886/26		05/15/2020 03:21	1	05140026.D	Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 03:56	50		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 04:31	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 05:06	1		Luna-phenylhex 4.6(mm)
CCV 280-494886/30		05/15/2020 05:41	1		Luna-phenylhex 4.6(mm)
CCV 280-494886/31		05/15/2020 06:16	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 06:51	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 07:26	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 08:01	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 08:36	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 09:11	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 09:46	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 10:21	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 10:56	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 11:31	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 12:06	1		Luna-phenylhex 4.6(mm)
CCV 280-494886/42		05/15/2020 12:40	1		Luna-phenylhex 4.6(mm)
CCV 280-494886/43		05/15/2020 13:15	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 13:50	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 14:25	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 15:00	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 15:35	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 16:10	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 16:45	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 17:20	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 17:55	1		Luna-phenylhex 4.6(mm)

8330A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Start Date: 05/14/2020 16:16

Analysis Batch Number: 494886 End Date: 05/15/2020 20:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/15/2020 18:30	1		Luna-phenylhex 4.6(mm)
ZZZZZ		05/15/2020 19:05	1		Luna-phenylhex 4.6(mm)
CCV 280-494886/54		05/15/2020 19:40	1		Luna-phenylhex 4.6(mm)
CCV 280-494886/55		05/15/2020 20:15	1		Luna-phenylhex 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 06/24/2020 16:16

Analysis Batch Number: 499988 End Date: 06/25/2020 02:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-499988/7		06/24/2020 16:16	1	06240007.D	UltraCarb5uODS 4.6(mm)
CCV 280-499988/8		06/24/2020 16:39	1		UltraCarb5uODS 4.6(mm)
CCV 280-499988/9		06/24/2020 17:02	1	06240009.D	UltraCarb5uODS 4.6(mm)
MB 280-499527/1-A		06/24/2020 17:25	1	06240010.D	UltraCarb5uODS 4.6(mm)
LCS 280-499527/2-A		06/24/2020 17:48	1	06240011.D	UltraCarb5uODS 4.6(mm)
LCS 280-499527/3-A		06/24/2020 18:11	1	06240012.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		06/24/2020 18:34	1		UltraCarb5uODS 4.6(mm)
280-137736-1		06/24/2020 18:57	1	06240014.D	UltraCarb5uODS 4.6(mm)
280-137736-3		06/24/2020 19:20	1	06240015.D	UltraCarb5uODS 4.6(mm)
280-137736-4		06/24/2020 19:43	1	06240016.D	UltraCarb5uODS 4.6(mm)
280-137736-5		06/24/2020 20:06	1	06240017.D	UltraCarb5uODS 4.6(mm)
280-137736-6		06/24/2020 20:29	1	06240018.D	UltraCarb5uODS 4.6(mm)
280-137736-7		06/24/2020 20:52	1	06240019.D	UltraCarb5uODS 4.6(mm)
CCV 280-499988/20		06/24/2020 21:15	1	06240020.D	UltraCarb5uODS 4.6(mm)
CCV 280-499988/21		06/24/2020 21:38	1	06240021.D	UltraCarb5uODS 4.6(mm)
280-137736-8		06/24/2020 22:01	1	06240022.D	UltraCarb5uODS 4.6(mm)
280-137736-9		06/24/2020 22:24	1	06240023.D	UltraCarb5uODS 4.6(mm)
280-137736-9 MS		06/24/2020 22:47	1	06240024.D	UltraCarb5uODS 4.6(mm)
280-137736-9 MSD		06/24/2020 23:10	1	06240025.D	UltraCarb5uODS 4.6(mm)
280-137736-9 MS		06/24/2020 23:33	1	06240026.D	UltraCarb5uODS 4.6(mm)
280-137736-9 MSD		06/24/2020 23:56	1	06240027.D	UltraCarb5uODS 4.6(mm)
280-137736-14		06/25/2020 00:19	1	06240028.D	UltraCarb5uODS 4.6(mm)
280-137736-15		06/25/2020 00:42	1	06240029.D	UltraCarb5uODS 4.6(mm)
280-137736-17		06/25/2020 01:28	1	06240031.D	UltraCarb5uODS 4.6(mm)
CCV 280-499988/32		06/25/2020 01:51	1	06240032.D	UltraCarb5uODS 4.6(mm)
CCV 280-499988/33		06/25/2020 02:14	1	06240033.D	UltraCarb5uODS 4.6(mm)

8330A

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 06/25/2020 01:51

Analysis Batch Number: 499989 End Date: 06/25/2020 11:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-499989/32		06/25/2020 01:51	1	06240032.D	UltraCarb5uODS 4.6(mm)
CCV 280-499989/33		06/25/2020 02:14	1	06240033.D	UltraCarb5uODS 4.6(mm)
MB 280-499406/1-A		06/25/2020 02:37	1	06240034.D	UltraCarb5uODS 4.6(mm)
LCS 280-499406/4-A		06/25/2020 03:46	1	06240037.D	UltraCarb5uODS 4.6(mm)
LCSD 280-499406/5-A		06/25/2020 04:09	1	06240038.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		06/25/2020 04:32	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/25/2020 04:55	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/25/2020 05:18	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/25/2020 05:41	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/25/2020 06:04	1		UltraCarb5uODS 4.6(mm)
CCV 280-499989/44		06/25/2020 06:27	1	06240044.D	UltraCarb5uODS 4.6(mm)
CCV 280-499989/45		06/25/2020 06:50	1	06240045.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		06/25/2020 07:13	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/25/2020 07:36	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/25/2020 07:59	1		UltraCarb5uODS 4.6(mm)
280-137736-10		06/25/2020 08:22	1	06240049.D	UltraCarb5uODS 4.6(mm)
280-137736-11		06/25/2020 08:45	1	06240050.D	UltraCarb5uODS 4.6(mm)
280-137736-12		06/25/2020 09:08	1	06240051.D	UltraCarb5uODS 4.6(mm)
280-137736-13		06/25/2020 09:31	1	06240052.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		06/25/2020 09:54	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/25/2020 10:17	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/25/2020 10:40	1		UltraCarb5uODS 4.6(mm)
CCV 280-499989/56		06/25/2020 11:03	1	06240056.D	UltraCarb5uODS 4.6(mm)
CCV 280-499989/57		06/25/2020 11:26	1	06240057.D	UltraCarb5uODS 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 06/26/2020 17:12

Analysis Batch Number: 500316 End Date: 06/26/2020 23:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-500316/7		06/26/2020 17:12	1	06260007.D	UltraCarb5uODS 4.6(mm)
CCV 280-500316/8		06/26/2020 17:35	1		UltraCarb5uODS 4.6(mm)
CCV 280-500316/9		06/26/2020 17:58	1	06260009.D	UltraCarb5uODS 4.6(mm)
280-137736-4 DL		06/26/2020 18:21	20	06260010.D	UltraCarb5uODS 4.6(mm)
280-137736-6 DL		06/26/2020 18:44	10	06260011.D	UltraCarb5uODS 4.6(mm)
280-137736-7 DL		06/26/2020 19:07	10	06260012.D	UltraCarb5uODS 4.6(mm)
280-137736-16		06/26/2020 19:30	1	06260013.D	UltraCarb5uODS 4.6(mm)
LCS 280-499406/2-A		06/26/2020 19:53	1	06260014.D	UltraCarb5uODS 4.6(mm)
LCSD 280-499406/3-A		06/26/2020 20:39	1	015-1401.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		06/26/2020 21:02	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/26/2020 21:25	10		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/26/2020 21:48	50		UltraCarb5uODS 4.6(mm)
ZZZZZ		06/26/2020 22:11	1		UltraCarb5uODS 4.6(mm)
CCV 280-500316/20		06/26/2020 22:34	1	06260020.D	UltraCarb5uODS 4.6(mm)
CCV 280-500316/21		06/26/2020 22:57	1		UltraCarb5uODS 4.6(mm)
CCV 280-500316/22		06/26/2020 23:20	1	06260022.D	UltraCarb5uODS 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Start Date: 06/26/2020 18:34

Analysis Batch Number: 500326 End Date: 06/27/2020 12:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-500326/7		06/26/2020 18:34	1	06260007.D	Luna-phenylhex 4.6(mm)
CCV 280-500326/8		06/26/2020 19:09	1	06260008.D	Luna-phenylhex 4.6(mm)
ZZZZZ		06/26/2020 19:44	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/26/2020 20:19	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/26/2020 20:54	1		Luna-phenylhex 4.6(mm)
280-137736-1		06/26/2020 21:29	1	06260012.D	Luna-phenylhex 4.6(mm)
280-137736-3		06/26/2020 22:04	1	06260013.D	Luna-phenylhex 4.6(mm)
280-137736-4		06/26/2020 22:39	1	06260014.D	Luna-phenylhex 4.6(mm)
280-137736-4 DL		06/26/2020 23:14	20	06260015.D	Luna-phenylhex 4.6(mm)
280-137736-5		06/26/2020 23:49	1	06260016.D	Luna-phenylhex 4.6(mm)
280-137736-6		06/27/2020 00:24	1	06260017.D	Luna-phenylhex 4.6(mm)
280-137736-6 DL		06/27/2020 00:59	10	06260018.D	Luna-phenylhex 4.6(mm)
CCV 280-500326/19		06/27/2020 01:34	1	06260019.D	Luna-phenylhex 4.6(mm)
CCV 280-500326/20		06/27/2020 02:09	1	06260020.D	Luna-phenylhex 4.6(mm)
280-137736-7		06/27/2020 02:44	1	06260021.D	Luna-phenylhex 4.6(mm)
280-137736-7 DL		06/27/2020 03:19	10	06260022.D	Luna-phenylhex 4.6(mm)
280-137736-8		06/27/2020 03:54	1	06260023.D	Luna-phenylhex 4.6(mm)
280-137736-14		06/27/2020 04:29	1	06260024.D	Luna-phenylhex 4.6(mm)
280-137736-16		06/27/2020 05:04	1	06260025.D	Luna-phenylhex 4.6(mm)
280-137736-17		06/27/2020 05:39	1	06260026.D	Luna-phenylhex 4.6(mm)
CCV 280-500326/27		06/27/2020 11:31	1	06260027.D	Luna-phenylhex 4.6(mm)
CCV 280-500326/28		06/27/2020 12:06	1	06260028.D	Luna-phenylhex 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Start Date: 06/27/2020 11:31

Analysis Batch Number: 500327 End Date: 06/27/2020 18:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-500327/27		06/27/2020 11:31	1	06260027.D	Luna-phenylhex 4.6(mm)
CCV 280-500327/28		06/27/2020 12:06	1	06260028.D	Luna-phenylhex 4.6(mm)
ZZZZZ		06/27/2020 12:41	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/27/2020 13:16	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/27/2020 13:51	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/27/2020 14:26	1		Luna-phenylhex 4.6(mm)
ZZZZZ		06/27/2020 15:01	1		Luna-phenylhex 4.6(mm)
280-137736-10		06/27/2020 15:36	1	06260034.D	Luna-phenylhex 4.6(mm)
280-137736-11		06/27/2020 16:10	1	06260035.D	Luna-phenylhex 4.6(mm)
280-137736-12		06/27/2020 16:45	1	06260036.D	Luna-phenylhex 4.6(mm)
280-137736-13		06/27/2020 17:20	1	06260037.D	Luna-phenylhex 4.6(mm)
CCV 280-500327/38		06/27/2020 17:55	1	06260038.D	Luna-phenylhex 4.6(mm)
CCV 280-500327/39		06/27/2020 18:30	1	06260039.D	Luna-phenylhex 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_X3 Start Date: 06/30/2020 23:41

Analysis Batch Number: 500691 End Date: 07/01/2020 08:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-500691/21		06/30/2020 23:41	1	06300021.D	UltraCarb5uODS 4.6(mm)
CCV 280-500691/22		07/01/2020 00:04	1	06300022.D	UltraCarb5uODS 4.6(mm)
CCV 280-500691/23		07/01/2020 00:28	1		UltraCarb5uODS 4.6(mm)
MB 280-500616/1-A		07/01/2020 00:51	1	06300024.D	UltraCarb5uODS 4.6(mm)
LCS 280-500616/2-A		07/01/2020 01:14	1	06300025.D	UltraCarb5uODS 4.6(mm)
LCSD 280-500616/3-A		07/01/2020 01:37	1	06300026.D	UltraCarb5uODS 4.6(mm)
LCS 280-500616/4-A		07/01/2020 02:00	1	06300027.D	UltraCarb5uODS 4.6(mm)
LCSD 280-500616/5-A		07/01/2020 02:23	1	06300028.D	UltraCarb5uODS 4.6(mm)
280-137736-10 RE		07/01/2020 02:46	1	06300029.D	UltraCarb5uODS 4.6(mm)
280-137736-11 RE		07/01/2020 03:09	1	06300030.D	UltraCarb5uODS 4.6(mm)
280-137736-12 RE		07/01/2020 03:32	1	06300031.D	UltraCarb5uODS 4.6(mm)
280-137736-13 RE		07/01/2020 03:54	1	06300032.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		07/01/2020 04:17	1		UltraCarb5uODS 4.6(mm)
CCV 280-500691/34		07/01/2020 04:41	1	06300034.D	UltraCarb5uODS 4.6(mm)
CCV 280-500691/35		07/01/2020 05:04	1	06300035.D	UltraCarb5uODS 4.6(mm)
ZZZZZ		07/01/2020 05:27	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		07/01/2020 05:50	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		07/01/2020 06:13	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		07/01/2020 06:36	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		07/01/2020 06:59	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		07/01/2020 07:22	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		07/01/2020 07:45	1		UltraCarb5uODS 4.6(mm)
ZZZZZ		07/01/2020 08:08	1		UltraCarb5uODS 4.6(mm)
CCV 280-500691/44		07/01/2020 08:31	1		UltraCarb5uODS 4.6(mm)
CCV 280-500691/45		07/01/2020 08:54	1		UltraCarb5uODS 4.6(mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA Start Date: 07/01/2020 22:21

Analysis Batch Number: 500847 End Date: 07/02/2020 11:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-500847/7		07/01/2020 22:21	1	07010007.D	Luna-phenylhex 4.6(mm)
CCV 280-500847/8		07/01/2020 22:56	1	07010008.D	Luna-phenylhex 4.6(mm)
ZZZZZ		07/01/2020 23:31	1		Luna-phenylhex 4.6(mm)
ZZZZZ		07/02/2020 00:06	1		Luna-phenylhex 4.6(mm)
ZZZZZ		07/02/2020 00:41	1		Luna-phenylhex 4.6(mm)
ZZZZZ		07/02/2020 01:16	1		Luna-phenylhex 4.6(mm)
ZZZZZ		07/02/2020 01:51	1		Luna-phenylhex 4.6(mm)
280-137736-10 RE		07/02/2020 02:26	1	07010014.D	Luna-phenylhex 4.6(mm)
280-137736-11 RE		07/02/2020 03:01	1	07010015.D	Luna-phenylhex 4.6(mm)
280-137736-12 RE		07/02/2020 03:36	1	07010016.D	Luna-phenylhex 4.6(mm)
280-137736-13 RE		07/02/2020 04:11	1	07010017.D	Luna-phenylhex 4.6(mm)
CCV 280-500847/18		07/02/2020 04:46	1	07010018.D	Luna-phenylhex 4.6(mm)
CCV 280-500847/19		07/02/2020 05:21	1	07010019.D	Luna-phenylhex 4.6(mm)
ZZZZZ		07/02/2020 05:56	1		Luna-phenylhex 4.6(mm)
ZZZZZ		07/02/2020 06:31	1		Luna-phenylhex 4.6(mm)
ZZZZZ		07/02/2020 07:06	1		Luna-phenylhex 4.6(mm)
ZZZZZ		07/02/2020 07:41	1		Luna-phenylhex 4.6(mm)
ZZZZZ		07/02/2020 08:16	1		Luna-phenylhex 4.6(mm)
ZZZZZ		07/02/2020 08:51	1		Luna-phenylhex 4.6(mm)
ZZZZZ		07/02/2020 09:26	1		Luna-phenylhex 4.6(mm)
ZZZZZ		07/02/2020 10:01	1		Luna-phenylhex 4.6(mm)
CCV 280-500847/28		07/02/2020 10:36	1		Luna-phenylhex 4.6(mm)
CCV 280-500847/29		07/02/2020 11:11	1		Luna-phenylhex 4.6(mm)

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499406 Batch Start Date: 06/19/20 15:47 Batch Analyst: Appenzeller, Kayla S

Batch Method: 3535 Batch End Date: 06/19/20 19:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	8330 LCS 00099	8330_OP_DMT 00008
MB 280-499406/1		3535, 8330A				500 mL	5 mL		
LCS 280-499406/2		3535, 8330A				500 mL	5 mL	0.1 mL	
LCSD 280-499406/3		3535, 8330A				500 mL	5 mL	0.1 mL	
LCS 280-499406/4		3535, 8330A				500 mL	5 mL		0.1 mL
LCSD 280-499406/5		3535, 8330A				500 mL	5 mL		0.1 mL
280-137736-A-10	PZ020-20A	3535, 8330A	T	729.8 g	249.3 g	480.5 mL	5 mL		
280-137736-A-11	G0087-20A	3535, 8330A	T	720.5 g	254.9 g	465.6 mL	5 mL		
280-137736-A-12	G0088-20A	3535, 8330A	T	729.5 g	250.8 g	478.7 mL	5 mL		
280-137736-A-13	G0089-20A	3535, 8330A	T	728.3 g	251.9 g	476.4 mL	5 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	8330Surrogate 00116	AnalysisComment				
MB 280-499406/1		3535, 8330A		0.1 mL					
LCS 280-499406/2		3535, 8330A		0.1 mL	8330 lcs				
LCSD 280-499406/3		3535, 8330A		0.1 mL	8330 lcs				
LCS 280-499406/4		3535, 8330A		0.1 mL	DMT				
LCSD 280-499406/5		3535, 8330A		0.1 mL	DMT				
280-137736-A-10	PZ020-20A	3535, 8330A	T	0.1 mL					
280-137736-A-11	G0087-20A	3535, 8330A	T	0.1 mL					
280-137736-A-12	G0088-20A	3535, 8330A	T	0.1 mL					
280-137736-A-13	G0089-20A	3535, 8330A	T	0.1 mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499406 Batch Start Date: 06/19/20 15:47 Batch Analyst: Appenzeller, Kayla S

Batch Method: 3535 Batch End Date: 06/19/20 19:15

Batch Notes	
Acid ID	CaCl2_Sol_00071
Acid Name	CaCl2
Balance ID	24350888
Batch Comment	DV-OP-0017 Mantel:A
First End time	06/19/2020 18:59
Pipette/Syringe/Dispenser ID	Jiji, DOD, Soot
Rinse Solvent Lot	0.1%AAinACN_00138
Rinse Solvent Name	0.1%AAinACN
Solvent Lot #	ACN_00234
Solvent Name	Acetonitrile
SPE Cartridge Lot ID	005130024A
SPE Cartridge Type	Porapak RDX
Analyst ID - Spike Analyst	KA
Analyst ID - Spike Witness Analyst	Reviewer:JZ
First Start time	06/19/2020 15:58

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/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499527 Batch Start Date: 06/20/20 17:13 Batch Analyst: Appenzeller, Kayla S

Batch Method: 3535 Batch End Date: 06/20/20 19:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	8330 LCS 00099	8330_OP_DMT 00008
MB 280-499527/1		3535, 8330A				500 mL	5 mL		
LCS 280-499527/2		3535, 8330A				500 mL	5 mL	0.1 mL	
LCS 280-499527/3		3535, 8330A				500 mL	5 mL		0.1 mL
280-137736-A-1	WC-Q3-JUNE20	3535, 8330A	T	729.9 g	254.6 g	475.3 mL	5 mL		
280-137736-A-3	G0091-20A	3535, 8330A	T	728.3 g	256.1 g	472.2 mL	5 mL		
280-137736-A-4	G0123-20A	3535, 8330A	T	716.1 g	255.5 g	460.6 mL	5 mL		
280-137736-A-5	G0122-20A	3535, 8330A	T	728.8 g	255.8 g	473 mL	5 mL		
280-137736-A-6	G0096-20A	3535, 8330A	T	712.2 g	249.0 g	463.2 mL	5 mL		
280-137736-A-7	G0296-20A	3535, 8330A	T	721.0 g	250.7 g	470.3 mL	5 mL		
280-137736-A-8	G0092-20A	3535, 8330A	T	732.6 g	257.2 g	475.4 mL	5 mL		
280-137736-A-9	PZ019-20A	3535, 8330A	T	731.5 g	255.5 g	476 mL	5 mL		
280-137736-A-9 MS	PZ019-20A	3535, 8330A	T	726.6 g	250.4 g	476.2 mL	5 mL	0.1 mL	
280-137736-A-9 MSD	PZ019-20A	3535, 8330A	T	726.0 g	250.4 g	475.6 mL	5 mL	0.1 mL	
280-137736-B-9 MS	PZ019-20A	3535, 8330A	T	723.2 g	249.8 g	473.4 mL	5 mL		0.1 mL
280-137736-B-9 MSD	PZ019-20A	3535, 8330A	T	724.1 g	251.0 g	473.1 mL	5 mL		0.1 mL
280-137736-A-14	G0077-20A	3535, 8330A	T	725.3 g	251.1 g	474.2 mL	5 mL		
280-137736-A-15	G0078-20A	3535, 8330A	T	723.8 g	249.6 g	474.2 mL	5 mL		
280-137736-A-16	G0093-20A	3535, 8330A	T	720.8 g	254.7 g	466.1 mL	5 mL		
280-137736-A-17	G0086-20A	3535, 8330A	T	726.8 g	250.6 g	476.2 mL	5 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	8330Surrogate 00116	AnalysisComment				
MB 280-499527/1		3535, 8330A		0.1 mL					
LCS 280-499527/2		3535, 8330A		0.1 mL	8330 LCS				
LCS 280-499527/3		3535, 8330A		0.1 mL	DMT				
280-137736-A-1	WC-Q3-JUNE20	3535, 8330A	T	0.1 mL	filtered				
280-137736-A-3	G0091-20A	3535, 8330A	T	0.1 mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499527 Batch Start Date: 06/20/20 17:13 Batch Analyst: Appenzeller, Kayla S

Batch Method: 3535 Batch End Date: 06/20/20 19:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	8330Surrogate 00116	AnalysisComment				
280-137736-A-4	G0123-20A	3535, 8330A	T	0.1 mL					
280-137736-A-5	G0122-20A	3535, 8330A	T	0.1 mL					
280-137736-A-6	G0096-20A	3535, 8330A	T	0.1 mL					
280-137736-A-7	G0296-20A	3535, 8330A	T	0.1 mL					
280-137736-A-8	G0092-20A	3535, 8330A	T	0.1 mL					
280-137736-A-9	PZ019-20A	3535, 8330A	T	0.1 mL					
280-137736-A-9 MS	PZ019-20A	3535, 8330A	T	0.1 mL	8330 LCS				
280-137736-A-9 MSD	PZ019-20A	3535, 8330A	T	0.1 mL	8330 LCS				
280-137736-B-9 MS	PZ019-20A	3535, 8330A	T	0.1 mL	DMT				
280-137736-B-9 MSD	PZ019-20A	3535, 8330A	T	0.1 mL	DMT				
280-137736-A-14	G0077-20A	3535, 8330A	T	0.1 mL					
280-137736-A-15	G0078-20A	3535, 8330A	T	0.1 mL					
280-137736-A-16	G0093-20A	3535, 8330A	T	0.1 mL					
280-137736-A-17	G0086-20A	3535, 8330A	T	0.1 mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499527 Batch Start Date: 06/20/20 17:13 Batch Analyst: Appenzeller, Kayla S

Batch Method: 3535 Batch End Date: 06/20/20 19:30

Batch Notes	
Acid ID	CaCl2_Sol_00071
Acid Name	CaCl2
Balance ID	24350888
Batch Comment	DV-OP-0017 Mantel:A
First End time	06/20/2020 19:12
Pipette/Syringe/Dispenser ID	Jiji, DOD, Soot
Rinse Solvent Lot	0.1%AAinACN_00138
Rinse Solvent Name	0.1%AAinACN
Solvent Lot #	ACN_00234
Solvent Name	Acetonitrile
SPE Cartridge Lot ID	005130024A
SPE Cartridge Type	Porapak RDX
Analyst ID - Spike Analyst	KA
Analyst ID - Spike Witness Analyst	Reviewer:DMB
First Start time	06/20/2020 17:22

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/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 500616 Batch Start Date: 06/30/20 12:07 Batch Analyst: Adams, Marisa L

Batch Method: 3535 Batch End Date: 06/30/20 13:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	8330 LCS 00099	8330_OP_DMT 00008
MB 280-500616/1		3535, 8330A				500 mL	5 mL		
LCS 280-500616/2		3535, 8330A				500 mL	5 mL	0.1 mL	
LCSD 280-500616/3		3535, 8330A				500 mL	5 mL	0.1 mL	
LCS 280-500616/4		3535, 8330A				500 mL	5 mL		0.1 mL
LCSD 280-500616/5		3535, 8330A				500 mL	5 mL		0.1 mL
280-137736-B-10	PZ020-20A	3535, 8330A	T	713.7 g	248.9 g	464.8 mL	5 mL		
280-137736-B-11	G0087-20A	3535, 8330A	T	723.4 g	254.4 g	469 mL	5 mL		
280-137736-B-12	G0088-20A	3535, 8330A	T	724.0 g	250.2 g	473.8 mL	5 mL		
280-137736-B-13	G0089-20A	3535, 8330A	T	719.9 g	253.7 g	466.2 mL	5 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	8330Surrogate 00116	AnalysisComment				
MB 280-500616/1		3535, 8330A		0.1 mL					
LCS 280-500616/2		3535, 8330A		0.1 mL	8330				
LCSD 280-500616/3		3535, 8330A		0.1 mL	8330				
LCS 280-500616/4		3535, 8330A		0.1 mL	DMT				
LCSD 280-500616/5		3535, 8330A		0.1 mL	DMT				
280-137736-B-10	PZ020-20A	3535, 8330A	T	0.1 mL					
280-137736-B-11	G0087-20A	3535, 8330A	T	0.1 mL					
280-137736-B-12	G0088-20A	3535, 8330A	T	0.1 mL					
280-137736-B-13	G0089-20A	3535, 8330A	T	0.1 mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 500616 Batch Start Date: 06/30/20 12:07 Batch Analyst: Adams, Marisa L

Batch Method: 3535 Batch End Date: 06/30/20 13:40

Batch Notes	
Acid ID	CaCl2_Sol_00071
Acid Name	CaCl2
Balance ID	24350888
Batch Comment	DV-OP-0017 Mantel:A
First End time	06/30/2020 13:25
Pipette/Syringe/Dispenser ID	Jiji, DOD, Soot
Rinse Solvent Lot	0.1%AAinACN_00145
Rinse Solvent Name	0.1%AAinACN
Solvent Lot #	ACN_00234
Solvent Name	Acetonitrile
SPE Cartridge Lot ID	005130024A
SPE Cartridge Type	Porapak RDX
Analyst ID - Spike Analyst	MA
Analyst ID - Spike Witness Analyst	Reviewer:TH
First Start time	06/30/2020 12:24

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job Number: 280-137736-1

SDG No.:

Project: Cornhusker (CHAAP)

Client Sample ID	Lab Sample ID
G0091-20A	280-137736-3
G0123-20A	280-137736-4
G0122-20A	280-137736-5
G0096-20A	280-137736-6
G0296-20A	280-137736-7
G0092-20A	280-137736-8
PZ019-20A	280-137736-9
PZ020-20A	280-137736-10
G0087-20A	280-137736-11
G0088-20A	280-137736-12
G0089-20A	280-137736-13
G0077-20A	280-137736-14
G0078-20A	280-137736-15
G0093-20A	280-137736-16
G0086-20A	280-137736-17

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: G0091-20A
Lab Sample ID: 280-137736-3
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/16/2020 09:35
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Ammonia	0.050	0.10	0.050	0.022	mg/L	U		1	350.1
Nitrogen, Total Kjeldahl	1.0	1.0	1.0	0.69	mg/L	U		1	351.2
Nitrate Nitrite as N	40	2.5	1.3	0.48	mg/L			25	353.2
Sulfide	1.9	4.0	1.9	0.79	mg/L	U		1	9034
Sulfate	190	5.0	3.0	1.0	mg/L			1	9056A
Total Alkalinity as CaCO3	280	10	10	3.1	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: G0091-20A
Lab Sample ID: 280-137736-3
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/16/2020 09:35
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Dissolved Organic Carbon - Quad	3.8	1.0	1.0	0.35	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: G0123-20A
Lab Sample ID: 280-137736-4
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/16/2020 13:20
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Ammonia	0.24	0.10	0.050	0.022	mg/L			1	350.1
Nitrogen, Total Kjeldahl	0.84	1.0	1.0	0.69	mg/L	J		1	351.2
Nitrate Nitrite as N	0.31	0.10	0.050	0.019	mg/L			1	353.2
Sulfide	1.9	4.0	1.9	0.79	mg/L	U		1	9034
Sulfate	490	25	15	5.2	mg/L		D	5	9056A
Total Alkalinity as CaCO3	520	10	10	3.1	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: G0123-20A
Lab Sample ID: 280-137736-4
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/16/2020 13:20
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Dissolved Organic Carbon - Quad	5.6	1.0	1.0	0.35	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: G0122-20A
Lab Sample ID: 280-137736-5
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/16/2020 11:55
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Ammonia	1.9	0.10	0.050	0.022	mg/L			1	350.1
Nitrogen, Total Kjeldahl	3.0	1.0	1.0	0.69	mg/L			1	351.2
Nitrate Nitrite as N	0.82	0.10	0.050	0.019	mg/L			1	353.2
Sulfide	0.80	4.0	1.9	0.79	mg/L	J		1	9034
Sulfate	700	25	15	5.2	mg/L		D	5	9056A
Total Alkalinity as CaCO3	580	10	10	3.1	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: G0122-20A
Lab Sample ID: 280-137736-5
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/16/2020 11:55
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Dissolved Organic Carbon - Quad	7.0	1.0	1.0	0.35	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: G0096-20A
Lab Sample ID: 280-137736-6
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/16/2020 09:40
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Ammonia	0.19	0.10	0.050	0.022	mg/L			1	350.1
Nitrogen, Total Kjeldahl	1.0	1.0	1.0	0.69	mg/L	U		1	351.2
Nitrate Nitrite as N	25	2.0	1.0	0.38	mg/L			20	353.2
Sulfide	1.9	4.0	1.9	0.79	mg/L	U		1	9034
Sulfate	85	5.0	3.0	1.0	mg/L			1	9056A
Total Alkalinity as CaCO3	280	10	10	3.1	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: G0096-20A
Lab Sample ID: 280-137736-6
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/16/2020 09:40
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Dissolved Organic Carbon - Quad	4.4	1.0	1.0	0.35	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: G0296-20A
Lab Sample ID: 280-137736-7
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/16/2020 08:00
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Ammonia	0.19	0.10	0.050	0.022	mg/L			1	350.1
Nitrogen, Total Kjeldahl	1.0	1.0	1.0	0.69	mg/L	U		1	351.2
Nitrate Nitrite as N	26	2.0	1.0	0.38	mg/L			20	353.2
Sulfide	0.80	4.0	1.9	0.79	mg/L	J		1	9034
Sulfate	84	5.0	3.0	1.0	mg/L			1	9056A
Total Alkalinity as CaCO3	280	10	10	3.1	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: G0296-20A
Lab Sample ID: 280-137736-7
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/16/2020 08:00
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Dissolved Organic Carbon - Quad	4.2	1.0	1.0	0.35	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: G0092-20A
Lab Sample ID: 280-137736-8
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/16/2020 10:40
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Ammonia	0.031	0.10	0.050	0.022	mg/L	J		1	350.1
Nitrogen, Total Kjeldahl	1.0	1.0	1.0	0.69	mg/L	U		1	351.2
Nitrate Nitrite as N	0.18	0.10	0.050	0.019	mg/L			1	353.2
Sulfide	0.80	4.0	1.9	0.79	mg/L	J		1	9034
Sulfate	330	25	15	5.2	mg/L		D	5	9056A
Total Alkalinity as CaCO3	350	10	10	3.1	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: G0092-20A
Lab Sample ID: 280-137736-8
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/16/2020 10:40
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Dissolved Organic Carbon - Quad	2.9	1.0	1.0	0.35	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PZ019-20A
Lab Sample ID: 280-137736-9
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/16/2020 12:00
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Ammonia	0.050	0.10	0.050	0.022	mg/L	U		1	350.1
Nitrogen, Total Kjeldahl	1.0	1.0	1.0	0.69	mg/L	U	J1	1	351.2
Nitrate Nitrite as N	34	0.50	0.25	0.095	mg/L		J1	5	353.2
Sulfide	1.9	4.0	1.9	0.79	mg/L	U		1	9034
Sulfate	58	5.0	3.0	1.0	mg/L			1	9056A
Total Alkalinity as CaCO3	75	10	10	3.1	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: PZ019-20A
Lab Sample ID: 280-137736-9
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/16/2020 12:00
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Dissolved Organic Carbon - Quad	2.0	1.0	1.0	0.35	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PZ020-20A
Lab Sample ID: 280-137736-10
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/15/2020 15:40
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Ammonia	0.032	0.10	0.050	0.022	mg/L	J		1	350.1
Nitrogen, Total Kjeldahl	1.0	1.0	1.0	0.69	mg/L	U		1	351.2
Nitrate Nitrite as N	38	2.0	1.0	0.38	mg/L			20	353.2
Sulfide	1.9	4.0	1.9	0.79	mg/L	U		1	9034
Sulfate	190	5.0	3.0	1.0	mg/L			1	9056A
Total Alkalinity as CaCO3	310	10	10	3.1	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: PZ020-20A
Lab Sample ID: 280-137736-10
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/15/2020 15:40
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Dissolved Organic Carbon - Quad	6.4	1.0	1.0	0.35	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: G0087-20A
Lab Sample ID: 280-137736-11
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/15/2020 16:40
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Ammonia	0.032	0.10	0.050	0.022	mg/L	J		1	350.1
Nitrogen, Total Kjeldahl	1.1	1.0	1.0	0.69	mg/L			1	351.2
Nitrate Nitrite as N	2.7	0.10	0.050	0.019	mg/L			1	353.2
Sulfide	1.9	4.0	1.9	0.79	mg/L	U		1	9034
Sulfate	110	5.0	3.0	1.0	mg/L			1	9056A
Total Alkalinity as CaCO3	310	10	10	3.1	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: G0087-20A
Lab Sample ID: 280-137736-11
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/15/2020 16:40
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Dissolved Organic Carbon - Quad	2.9	1.0	1.0	0.35	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: G0088-20A
Lab Sample ID: 280-137736-12
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/15/2020 13:40
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Ammonia	0.088	0.10	0.050	0.022	mg/L	J		1	350.1
Nitrogen, Total Kjeldahl	1.0	1.0	1.0	0.69	mg/L	U		1	351.2
Nitrate Nitrite as N	1.2	0.10	0.050	0.019	mg/L			1	353.2
Sulfide	0.80	4.0	1.9	0.79	mg/L	J		1	9034
Sulfate	190	25	15	5.2	mg/L		D	5	9056A
Total Alkalinity as CaCO3	280	10	10	3.1	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: G0088-20A
Lab Sample ID: 280-137736-12
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/15/2020 13:40
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Dissolved Organic Carbon - Quad	2.5	1.0	1.0	0.35	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: G0089-20A
Lab Sample ID: 280-137736-13
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/15/2020 15:20
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Ammonia	0.16	0.10	0.050	0.022	mg/L			1	350.1
Nitrogen, Total Kjeldahl	1.4	1.0	1.0	0.69	mg/L			1	351.2
Nitrate Nitrite as N	0.88	0.10	0.050	0.019	mg/L			1	353.2
Sulfide	0.80	4.0	1.9	0.79	mg/L	J		1	9034
Sulfate	110	5.0	3.0	1.0	mg/L			1	9056A
Total Alkalinity as CaCO3	330	10	10	3.1	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: G0089-20A
Lab Sample ID: 280-137736-13
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/15/2020 15:20
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Dissolved Organic Carbon - Quad	5.8	1.0	1.0	0.35	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: G0077-20A
Lab Sample ID: 280-137736-14
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/15/2020 13:20
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Ammonia	0.052	0.10	0.050	0.022	mg/L	J		1	350.1
Nitrogen, Total Kjeldahl	1.0	1.0	1.0	0.69	mg/L	U	J1	1	351.2
Nitrate Nitrite as N	13	1.0	0.50	0.19	mg/L			10	353.2
Sulfide	0.80	4.0	1.9	0.79	mg/L	J		1	9034
Sulfate	99	5.0	3.0	1.0	mg/L			1	9056A
Total Alkalinity as CaCO3	260	10	10	3.1	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: G0077-20A
Lab Sample ID: 280-137736-14
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/15/2020 13:20
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Dissolved Organic Carbon - Quad	3.6	1.0	1.0	0.35	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: G0078-20A
Lab Sample ID: 280-137736-15
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/15/2020 14:30
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Ammonia	0.46	0.10	0.050	0.022	mg/L			1	350.1
Nitrogen, Total Kjeldahl	1.0	1.0	1.0	0.69	mg/L	U		1	351.2
Nitrate Nitrite as N	0.050	0.10	0.050	0.019	mg/L	U		1	353.2
Sulfide	1.9	4.0	1.9	0.79	mg/L	U		1	9034
Sulfate	250	25	15	5.2	mg/L		D	5	9056A
Total Alkalinity as CaCO3	340	10	10	3.1	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: G0078-20A
Lab Sample ID: 280-137736-15
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/15/2020 14:30
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Dissolved Organic Carbon - Quad	3.8	1.0	1.0	0.35	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: G0093-20A
Lab Sample ID: 280-137736-16
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/16/2020 08:25
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Ammonia	1.2	0.10	0.050	0.022	mg/L			1	350.1
Nitrogen, Total Kjeldahl	1.5	1.0	1.0	0.69	mg/L			1	351.2
Nitrate Nitrite as N	0.30	0.10	0.050	0.019	mg/L			1	353.2
Sulfide	1.9	4.0	1.9	0.79	mg/L	U		1	9034
Sulfate	140	5.0	3.0	1.0	mg/L			1	9056A
Total Alkalinity as CaCO3	350	10	10	3.1	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: G0093-20A
Lab Sample ID: 280-137736-16
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/16/2020 08:25
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Dissolved Organic Carbon - Quad	5.4	1.0	1.0	0.35	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: G0086-20A
Lab Sample ID: 280-137736-17
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/16/2020 08:15
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Ammonia	0.025	0.10	0.050	0.022	mg/L	J		1	350.1
Nitrogen, Total Kjeldahl	1.0	1.0	1.0	0.69	mg/L	U		1	351.2
Nitrate Nitrite as N	6.5	0.10	0.050	0.019	mg/L			1	353.2
Sulfide	1.9	4.0	1.9	0.79	mg/L	U		1	9034
Sulfate	130	5.0	3.0	1.0	mg/L			1	9056A
Total Alkalinity as CaCO3	280	10	10	3.1	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: G0086-20A
Lab Sample ID: 280-137736-17
Lab Name: Eurofins TestAmerica, Denver
Job No.: 280-137736-1
SDG ID.:
Matrix: Water
Date Sampled: 06/16/2020 08:15
Reporting Basis: WET
Date Received: 06/17/2020 09:20

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Dissolved Organic Carbon - Quad	3.6	1.0	1.0	0.35	mg/L			1	9060A

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Analyst: BWH Batch Start Date: 06/23/2020

Reporting Units: mg/L Analytical Batch No.: 499929

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
14	ICVL	11:39	Ammonia	0.495	0.501	99	90-110		350.1 ICV_00409
15	ICV	11:41	Ammonia	2.40	2.51	96	90-110		350.1 ICV_00409
16	ICB	11:43	Ammonia	0.050				U	
32	CCVL	12:15	Ammonia	0.504	0.500	101	90-110		350.1 cal_00421
33	CCV	12:17	Ammonia	2.51	2.50	100	90-110		350.1 cal_00421
34	CCB	12:19	Ammonia	0.050				U	
48	CCVL	12:47	Ammonia	0.517	0.500	103	90-110		350.1 cal_00421
49	CCV	12:49	Ammonia	2.57	2.50	103	90-110		350.1 cal_00421
50	CCB	12:51	Ammonia	0.050				U	
64	CCVL	13:19	Ammonia	0.527					
65	CCV	13:21	Ammonia	2.71					
66	CCB	13:23	Ammonia	0.050				U	
97	CCV	14:25	Ammonia	2.66	2.50	106	90-110		350.1 cal_00421
98	CCB	14:27	Ammonia	0.050				U	
116	CCV	15:07	Ammonia	2.69	2.50	107	90-110		350.1 cal_00421
117	CCB	15:09	Ammonia	0.050				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Analyst: SVC Batch Start Date: 06/24/2020

Reporting Units: mg/L Analytical Batch No.: 500036

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
13	ICV	18:34	Nitrogen, Total Kjeldahl	4.93	5.00	99	90-110		TKN ICV 25_00094
14	ICB	18:35	Nitrogen, Total Kjeldahl	1.0				U	
31	CCV	18:56	Nitrogen, Total Kjeldahl	4.99	5.00	100	90-110		TKN 25ppm_00809
32	CCB	18:57	Nitrogen, Total Kjeldahl	1.0				U	
49	CCV	19:19	Nitrogen, Total Kjeldahl	5.20	5.00	104	90-110		TKN 25ppm_00809
50	CCB	19:20	Nitrogen, Total Kjeldahl	1.0				U	
99	CCV	20:21	Nitrogen, Total Kjeldahl	5.30	5.00	106	90-110		TKN 25ppm_00809
100	CCB	20:22	Nitrogen, Total Kjeldahl	1.0				U	
111	CCV	20:36	Nitrogen, Total Kjeldahl	5.15	5.00	103	90-110		TKN 25ppm_00809
112	CCB	20:37	Nitrogen, Total Kjeldahl	1.0				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Analyst: SVC Batch Start Date: 06/22/2020

Reporting Units: mg/L Analytical Batch No.: 499726

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
17	ICV	17:04	Nitrate Nitrite as N	5.00	5.00	100	90-110		NXN ICV INT_00516
18	ICVL	17:06	Nitrate Nitrite as N	2.07	2.00	104	90-110		NXN ICV INT_00516
19	ICB	17:08	Nitrate Nitrite as N	0.050				U	
99	CCV	19:48	Nitrate Nitrite as N	5.04	5.00	101	90-110		NXN CAL INT_00535
100	CCVL	19:50	Nitrate Nitrite as N	1.05	1.00	105	90-110		NXN CAL INT_00535
101	CCB	19:52	Nitrate Nitrite as N	0.050				U	
115	CCV	20:20	Nitrate Nitrite as N	5.01	5.00	100	90-110		NXN CAL INT_00535
116	CCVL	20:22	Nitrate Nitrite as N	1.05	1.00	105	90-110		NXN CAL INT_00535
117	CCB	20:24	Nitrate Nitrite as N	0.050				U	
131	CCV	20:52	Nitrate Nitrite as N	5.00	5.00	100	90-110		NXN CAL INT_00535
132	CCVL	20:54	Nitrate Nitrite as N	1.02	1.00	102	90-110		NXN CAL INT_00535
133	CCB	20:56	Nitrate Nitrite as N	0.050				U	
146	CCV	21:22	Nitrate Nitrite as N	4.91	5.00	98	90-110		NXN CAL INT_00535
147	CCVL	21:24	Nitrate Nitrite as N	1.01	1.00	101	90-110		NXN CAL INT_00535
148	CCB	21:26	Nitrate Nitrite as N	0.050				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Analyst: JAP Batch Start Date: 06/09/2020

Reporting Units: mg/L Analytical Batch No.: 497981

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
8	ICV	12:25	Sulfate	74.6	80.0	93	90-110		IC SO4 ICV_00021
9	ICB	12:41	Sulfate	2.5				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Analyst: JAP Batch Start Date: 06/30/2020

Reporting Units: mg/L Analytical Batch No.: 500630

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	10:18	Sulfate	94.9	100	95	90-110		IC LCS_01747
2	CCB	10:34	Sulfate	2.5				U	
17	CCV	15:14	Sulfate	95.1	100	95	90-110		IC LCS_01747
18	CCB	15:31	Sulfate	2.5				U	
35	CCV	20:10	Sulfate	95.1	100	95	90-110		IC LCS_01747
36	CCB	20:27	Sulfate	2.5				U	
47	CCV	23:27	Sulfate	95.1	100	95	90-110		IC LCS_01747
48	CCB	23:44	Sulfate	2.5				U	
59	CCV	02:44	Sulfate	95.8	100	96	90-110		IC LCS_01747
60	CCB	03:01	Sulfate	2.5				U	
66	CCV	04:39	Sulfate	95.4	100	95	90-110		IC LCS_01747
67	CCB	04:55	Sulfate	2.5				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Analyst: JAP Batch Start Date: 07/01/2020

Reporting Units: mg/L Analytical Batch No.: 500783

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	09:47	Sulfate	95.2	100	95	90-110		IC LCS_01747
2	CCB	10:03	Sulfate	2.5				U	
17	CCV	19:38	Sulfate	96.0	100	96	90-110		IC LCS_01747
18	CCB	19:54	Sulfate	2.5				U	
29	CCV	22:55	Sulfate	95.3	100	95	90-110		IC LCS_01747
30	CCB	23:11	Sulfate	2.5				U	
41	CCV	02:11	Sulfate	95.3	100	95	90-110		IC LCS_01747
42	CCB	02:28	Sulfate	2.5				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Analyst: JMB Batch Start Date: 07/02/2020

Reporting Units: mg/L Analytical Batch No.: 501126

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	17:28	Dissolved Organic Carbon - Quad	20.6	20.0	103	90-110		TOC ICV Std_00043
2	ICB	17:50	Dissolved Organic Carbon - Quad	0.590				J	
28	CCV	03:58	Dissolved Organic Carbon - Quad	26.7	25.0	107	90-110		TOC LCS Std_00048
29	CCB	04:21	Dissolved Organic Carbon - Quad	1.0				U	
40	CCV	08:35	Dissolved Organic Carbon - Quad	27.5	25.0	110	90-110		TOC LCS Std_00048
41	CCB	08:57	Dissolved Organic Carbon - Quad	1.22					
52	CCV	13:05	Dissolved Organic Carbon - Quad	27.4	25.0	109	90-110		TOC LCS Std_00048
53	CCB	13:28	Dissolved Organic Carbon - Quad	1.0				U	
62	CCV	16:51	Dissolved Organic Carbon - Quad	27.1	25.0	108	90-110		TOC LCS Std_00048
63	CCB	17:13	Dissolved Organic Carbon - Quad	0.424				J	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Analyst: JMB Batch Start Date: 07/06/2020

Reporting Units: mg/L Analytical Batch No.: 501318

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	17:54	Dissolved Organic Carbon - Quad	21.5	20.0	107	90-110		TOC ICV Std_00044
2	ICB	18:17	Dissolved Organic Carbon - Quad	1.0				U	
15	CCV	23:43	Dissolved Organic Carbon - Quad	26.7	25.0	106	90-110		TOC LCS Std_00050
16	CCB	00:11	Dissolved Organic Carbon - Quad	1.0				U	
27	CCV	04:25	Dissolved Organic Carbon - Quad	27.1	25.0	108	90-110		TOC LCS Std_00050
28	CCB	04:57	Dissolved Organic Carbon - Quad	1.0				U	
39	CCV	09:05	Dissolved Organic Carbon - Quad	26.8	25.0	107	90-110		TOC LCS Std_00050
40	CCB	09:37	Dissolved Organic Carbon - Quad	1.0				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Analyst: RAF Batch Start Date: 06/18/2020

Reporting Units: mg/L Analytical Batch No.: 499387

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
56	CCV	17:26	Total Alkalinity as CaCO3	182	200	91	90-110		Alk daily lcs 00907
57	CCB	17:32	Total Alkalinity as CaCO3	10				U	
71	CCV	18:57	Total Alkalinity as CaCO3	189	200	95	90-110		Alk daily lcs 00907
72	CCB	19:02	Total Alkalinity as CaCO3	10				U	
79	CCV	19:46	Total Alkalinity as CaCO3	191	200	96	90-110		Alk daily lcs 00907
80	CCB	19:51	Total Alkalinity as CaCO3	10				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Analyst: RAF Batch Start Date: 06/19/2020

Reporting Units: mg/L Analytical Batch No.: 499605

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
16	CCV	14:50	Total Alkalinity as CaCO3	190	200	95	90-110		Alk daily lcs 00907
17	CCB	14:56	Total Alkalinity as CaCO3	10				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	LOQ	Dil
Batch ID: 499929	Date: 06/23/2020 11:49						
350.1	MB 280-499929/19	Ammonia	0.050	U	mg/L	0.10	1
Batch ID: 500036	Date: 06/24/2020 18:37	Prep Batch: 499858	Date: 06/23/2020 16:29				
351.2	MB 280-499858/2-A	Nitrogen, Total Kjeldahl	1.0	U	mg/L	1.0	1
Batch ID: 499726	Date: 06/22/2020 19:58						
353.2	MB 280-499726/104	Nitrate Nitrite as N	0.050	U	mg/L	0.10	1
Batch ID: 499425	Date: 06/19/2020 12:54	Prep Batch: 499423	Date: 06/19/2020 12:52				
9034	MB 280-499423/2-A	Sulfide	1.9	U	mg/L	4.0	1
Batch ID: 499485	Date: 06/19/2020 17:04	Prep Batch: 499428	Date: 06/19/2020 12:59				
9034	MB 280-499428/2-A	Sulfide	1.9	U	mg/L	4.0	1
Batch ID: 499653	Date: 06/22/2020 12:04	Prep Batch: 499634	Date: 06/22/2020 10:42				
9034	MB 280-499634/2-A	Sulfide	0.800	J	mg/L	4.0	1
Batch ID: 500630	Date: 06/30/2020 11:40						
9056A	MB 280-500630/6	Sulfate	3.0	U	mg/L	5.0	1
Batch ID: 500783	Date: 07/01/2020 11:09						
9056A	MB 280-500783/6	Sulfate	3.0	U	mg/L	5.0	1
Batch ID: 501126	Date: 07/03/2020 05:51						
9060A	MB 280-500659/27-A	Dissolved Organic Carbon - Quad	1.0	U	mg/L	1.0	1
Batch ID: 501318	Date: 07/06/2020 19:44						
9060A	MB 280-501228/3-A	Dissolved Organic Carbon - Quad	1.0	U	mg/L	1.0	1
Batch ID: 499387	Date: 06/18/2020 17:50						
SM 2320B	MB 280-499387/60	Total Alkalinity as CaCO3	10	U	mg/L	10	1
Batch ID: 499605	Date: 06/19/2020 13:41						
SM 2320B	MB 280-499605/5	Total Alkalinity as CaCO3	10	U	mg/L	10	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 499929	Date: 06/23/2020 12:29										
350.1	280-137736-9	Ammonia	0.050	U	mg/L						
350.1	280-137736-9 MS	Ammonia	0.949		mg/L	1.00	95	90-110			
Batch ID: 500036	Date: 06/24/2020 19:05	Prep Batch: 499858	Date: 06/23/2020 16:29								
351.2	280-137736-14	Nitrogen, Total Kjeldahl	1.0	U	mg/L						J1
351.2	280-137736-14 MS	Nitrogen, Total Kjeldahl	1.67		mg/L	3.00	56	90-110			J1
Batch ID: 500036	Date: 06/24/2020 20:29	Prep Batch: 499858	Date: 06/23/2020 16:29								
351.2	280-137736-9	Nitrogen, Total Kjeldahl	1.0	U	mg/L						J1
351.2	280-137736-9 MS	Nitrogen, Total Kjeldahl	1.91		mg/L	3.00	64	90-110			J1
Batch ID: 499726	Date: 06/22/2020 20:38										
353.2	280-137736-9	Nitrate Nitrite as N	34		mg/L						J1
353.2	280-137736-9 MS	Nitrate Nitrite as N	48.2		mg/L	20.0	72	90-110			J1
Batch ID: 499653	Date: 06/22/2020 12:04	Prep Batch: 499634	Date: 06/22/2020 10:42								
9034	280-137736-9	Sulfide	1.9	U	mg/L						
9034	280-137736-9 MS	Sulfide	18.4		mg/L	22.9	80	44-110			
Batch ID: 500630	Date: 06/30/2020 22:54										
9056A	280-137736-4	Sulfate	490		mg/L						D
9056A	280-137736-4 MS	Sulfate	747		mg/L	250	104	87-112			D
Batch ID: 500630	Date: 07/01/2020 01:22										
9056A	280-137736-9	Sulfate	58		mg/L						
9056A	280-137736-9 MS	Sulfate	111		mg/L	50.0	106	87-112			
Batch ID: 501318	Date: 07/07/2020 06:27										
9060A	280-137736-9	Dissolved Organic Carbon - Quad	2.0		mg/L						
9060A	280-137736-9 MS	Dissolved Organic Carbon - Quad	28.7		mg/L	25.0	107	88-112			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 499929 Date: 06/23/2020 12:31											
350.1	280-137736-9 MSD	Ammonia	0.953		mg/L	1.00	95	90-110	0	10	
Batch ID: 500036 Date: 06/24/2020 18:41 Prep Batch: 499858 Date: 06/23/2020 16:29											
351.2	280-137736-9 MSD	Nitrogen, Total Kjeldahl	1.22		mg/L	3.00	41	90-110	44	25	J1
Batch ID: 500036 Date: 06/24/2020 19:06 Prep Batch: 499858 Date: 06/23/2020 16:29											
351.2	280-137736-14 MSD	Nitrogen, Total Kjeldahl	1.61		mg/L	3.00	54	90-110	4	25	J1
Batch ID: 499726 Date: 06/22/2020 20:40											
353.2	280-137736-9 MSD	Nitrate Nitrite as N	48.4		mg/L	20.0	72	90-110	0	10	J1
Batch ID: 499653 Date: 06/22/2020 12:04 Prep Batch: 499634 Date: 06/22/2020 10:42											
9034	280-137736-9 MSD	Sulfide	16.0		mg/L	22.9	70	44-110	14	20	
Batch ID: 500630 Date: 06/30/2020 23:11											
9056A	280-137736-4 MSD	Sulfate	744		mg/L	250	102	87-112	0	10	D
Batch ID: 500630 Date: 07/01/2020 01:38											
9056A	280-137736-9 MSD	Sulfate	109		mg/L	50.0	103	87-112	2	10	
Batch ID: 501318 Date: 07/07/2020 06:50											
9060A	280-137736-9 MSD	Dissolved Organic Carbon - Quad	28.8		mg/L	25.0	107	88-112	0	15	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 500630 Date: 06/30/2020 22:38								
9056A	G0123-20A	280-137736-4	Sulfate	490	mg/L			
9056A	G0123-20A	280-137736-4 DU	Sulfate	481	mg/L	1	10	D
Batch ID: 500630 Date: 07/01/2020 01:06								
9056A	PZ019-20A	280-137736-9	Sulfate	58	mg/L			
9056A	PZ019-20A	280-137736-9 DU	Sulfate	58.1	mg/L	0	10	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 499929	Date: 06/23/2020 11:47										
						LCS Source: 350.1 cal_00421					
350.1	LCS 280-499929/18	Ammonia	2.56		mg/L	2.50	103	90-110			
Batch ID: 500036	Date: 06/24/2020 18:36	Prep Batch: 499858	Date: 06/23/2020 16:29								
						LCS Source: TKN 25ppm_00809					
351.2	LCS 280-499858/1-A	Nitrogen, Total Kjeldahl	6.47		mg/L	6.00	108	90-110			
Batch ID: 499726	Date: 06/22/2020 19:56										
						LCS Source: NXN CAL INT_00535					
353.2	LCS 280-499726/103	Nitrate Nitrite as N	5.15		mg/L	5.00	103	90-110			
Batch ID: 499425	Date: 06/19/2020 12:54	Prep Batch: 499423	Date: 06/19/2020 12:52								
						LCS Source: SFD CAL INT_01770					
9034	LCS 280-499423/1-A	Sulfide	16.8		mg/L	21.7	77	44-110			
Batch ID: 499485	Date: 06/19/2020 17:04	Prep Batch: 499428	Date: 06/19/2020 12:59								
						LCS Source: SFD CAL INT_01770					
9034	LCS 280-499428/1-A	Sulfide	17.6		mg/L	21.7	81	44-110			
Batch ID: 499653	Date: 06/22/2020 12:04	Prep Batch: 499634	Date: 06/22/2020 10:42								
						LCS Source: SFD CAL INT_01771					
9034	LCS 280-499634/1-A	Sulfide	20.0		mg/L	22.9	87	44-110			
Batch ID: 500630	Date: 06/30/2020 11:07										
						LCS Source: IC LCS_01747					
9056A	LCS 280-500630/4	Sulfate	94.8		mg/L	100	95	87-112	0	10	
Batch ID: 500783	Date: 07/01/2020 10:36										
						LCS Source: IC LCS_01747					
9056A	LCS 280-500783/4	Sulfate	95.4		mg/L	100	95	87-112	1	10	
Batch ID: 501126	Date: 07/03/2020 05:06										
						LCS Source: TOC LCS Std_00048					
9060A	LCS 280-500659/25-A	Dissolved Organic Carbon - Quad	27.0		mg/L	25.0	108	88-112	1	15	
Batch ID: 501318	Date: 07/06/2020 18:49										
						LCS Source: TOC LCS Std_00050					
9060A	LCS 280-501228/1-A	Dissolved Organic Carbon - Quad	25.5		mg/L	25.0	102	88-112	4	15	
Batch ID: 499387	Date: 06/18/2020 17:38										
						LCS Source: Alk daily lcs_00907					
SM 2320B	LCS 280-499387/58	Total Alkalinity as CaCO3	186		mg/L	200	93	89-109	1	10	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 499605	Date: 06/19/2020 13:36										
						LCS Source: Alk daily lcs_00907					
SM 2320B	LCS 280-499605/4	Total Alkalinity as CaCO3	192		mg/L	200	96	89-109			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 499929	Date: 06/23/2020 14:33										
						LCSD Source: 350.1 cal_00421					
350.1	LCSD 280-499929/101	Ammonia	2.60		mg/L	2.50	104	90-110	2	10	
Batch ID: 500630	Date: 06/30/2020 11:23										
						LCSD Source: IC LCS_01747					
9056A	LCSD 280-500630/5	Sulfate	94.8		mg/L	100	95	87-112	0	10	
Batch ID: 500783	Date: 07/01/2020 10:52										
						LCSD Source: IC LCS_01747					
9056A	LCSD 280-500783/5	Sulfate	94.8		mg/L	100	95	87-112	1	10	
Batch ID: 501126	Date: 07/03/2020 05:29										
						LCSD Source: TOC LCS Std_00048					
9060A	LCSD 280-500659/26-A	Dissolved Organic Carbon - Quad	27.2		mg/L	25.0	109	88-112	1	15	
Batch ID: 501318	Date: 07/06/2020 19:12										
						LCSD Source: TOC LCS Std_00050					
9060A	LCSD 280-501228/2-A	Dissolved Organic Carbon - Quad	26.4		mg/L	25.0	106	88-112	4	15	
Batch ID: 499387	Date: 06/18/2020 17:45										
						LCSD Source: Alk daily lcs_00907					
SM 2320B	LCSD 280-499387/59	Total Alkalinity as CaCO3	189		mg/L	200	94	89-109	1	10	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
METHOD REPORTING LIMIT CHECK
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 500630	Date: 06/30/2020 10:50										
						LCS Source: IC CAL cl/so4_00317					
9056A	MRL 280-500630/3	Sulfate	4.49	J	mg/L	5.00	90	50-150			
Batch ID: 500783	Date: 07/01/2020 10:19										
						LCS Source: IC CAL cl/so4_00317					
9056A	MRL 280-500783/3	Sulfate	4.48	J	mg/L	5.00	90	50-150			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job Number: 280-137736-1

SDG Number:

Matrix: Water Instrument ID: WC_Alp 4

Method: 350.1 DL Date: 03/28/2011 13:26

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Ammonia		0.1	0.022

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job Number: 280-137736-1

SDG Number:

Matrix: Water Instrument ID: WC_Alp 4

Method: 350.1 XMDL Date: 03/28/2011 13:26

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Ammonia		0.1	0.0225

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job Number: 280-137736-1

SDG Number:

Matrix: Water Instrument ID: WC_Astoria

Method: 351.2 DL Date: 02/03/2019 00:00

Prep Method: 351.2

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Nitrogen, Total Kjeldahl		1	0.687

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job Number: 280-137736-1

SDG Number:

Matrix: Water Instrument ID: WC_Astoria

Method: 351.2 XMDL Date: 02/03/2019 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrogen, Total Kjeldahl		1	0.687

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job Number: 280-137736-1

SDG Number:

Matrix: Water Instrument ID: WC_Alp 2

Method: 353.2 DL Date: 12/16/2011 09:50

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Nitrate Nitrite as N		0.1	0.019

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job Number: 280-137736-1

SDG Number:

Matrix: Water Instrument ID: WC_Alp 2

Method: 353.2 XMDL Date: 05/16/2011 11:21

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate Nitrite as N		0.1	0.0191

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job Number: 280-137736-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 9034 DL Date: 03/28/2011 13:37

Prep Method: 9030B

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Sulfide		4	0.793

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job Number: 280-137736-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 9034 XMDL Date: 03/28/2011 13:37

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfide		4	0.793

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job Number: 280-137736-1

SDG Number:

Matrix: Water Instrument ID: WC_IonChrom11

Method: 9056A DL Date: 06/21/2019 00:00

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Sulfate		5	1.03

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job Number: 280-137736-1

SDG Number:

Matrix: Water Instrument ID: WC_IonChrom11

Method: 9056A XMDL Date: 06/21/2019 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfate		5	1.03

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY - DISSOLVED

Lab Name: Eurofins TestAmerica, Denver Job Number: 280-137736-1

SDG Number:

Matrix: Water Instrument ID: WC_SHI2

Method: 9060A DL Date: 06/21/2019 00:00

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Dissolved Organic Carbon - Quad		1	0.345

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY - DISSOLVED

Lab Name: Eurofins TestAmerica, Denver Job Number: 280-137736-1

SDG Number:

Matrix: Water Instrument ID: WC_SHI2

Method: 9060A XMDL Date: 06/21/2019 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Dissolved Organic Carbon - Quad		1	0.345

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job Number: 280-137736-1

SDG Number:

Matrix: Water Instrument ID: WC_AT4

Method: SM 2320B DL Date: 02/03/2019 00:00

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Total Alkalinity as CaCO3		10	3.08

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job Number: 280-137736-1

SDG Number:

Matrix: Water Instrument ID: WC_AT4

Method: SM 2320B XMDL Date: 02/03/2019 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Alkalinity as CaCO3		10	3.08

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Prep Method: 351.2

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LCS 280-499858/1-A	06/23/2020 16:29	499858		25	25
MB 280-499858/2-A	06/23/2020 16:29	499858		25	25
280-137736-9	06/23/2020 16:29	499858		25	25
280-137736-9 MS	06/23/2020 16:29	499858		25	25
280-137736-9 MSD	06/23/2020 16:29	499858		25	25
280-137736-3	06/23/2020 16:29	499858		25	25
280-137736-4	06/23/2020 16:29	499858		25	25
280-137736-5	06/23/2020 16:29	499858		25	25
280-137736-6	06/23/2020 16:29	499858		25	25
280-137736-7	06/23/2020 16:29	499858		25	25
280-137736-8	06/23/2020 16:29	499858		25	25
280-137736-10	06/23/2020 16:29	499858		25	25
280-137736-11	06/23/2020 16:29	499858		25	25
280-137736-12	06/23/2020 16:29	499858		25	25
280-137736-14	06/23/2020 16:29	499858		25	25
280-137736-14 MS	06/23/2020 16:29	499858		25	25
280-137736-14 MSD	06/23/2020 16:29	499858		25	25
280-137736-13	06/23/2020 16:29	499858		25	25
280-137736-15	06/23/2020 16:29	499858		25	25
280-137736-16	06/23/2020 16:29	499858		25	25
280-137736-17	06/23/2020 16:29	499858		25	25

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Prep Method: 9030B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LCS 280-499423/1-A	06/19/2020 12:52	499423		50	50
MB 280-499423/2-A	06/19/2020 12:52	499423		50	50
280-137736-14	06/19/2020 12:52	499423		50	50

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Prep Method: 9030B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LCS 280-499428/1-A	06/19/2020 12:59	499428		50	50
MB 280-499428/2-A	06/19/2020 12:59	499428		50	50
280-137736-15	06/19/2020 12:59	499428		50	50
280-137736-10	06/19/2020 12:59	499428		50	50
280-137736-11	06/19/2020 12:59	499428		50	50
280-137736-12	06/19/2020 12:59	499428		50	50
280-137736-13	06/19/2020 12:59	499428		50	50

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Prep Method: 9030B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
LCS 280-499634/1-A	06/22/2020 10:42	499634		50	50
MB 280-499634/2-A	06/22/2020 10:42	499634		50	50
280-137736-9	06/22/2020 10:42	499634		50	50
280-137736-9 MS	06/22/2020 10:42	499634		50	50
280-137736-9 MSD	06/22/2020 10:42	499634		50	50
280-137736-16	06/22/2020 10:42	499634		50	50
280-137736-17	06/22/2020 10:42	499634		50	50
280-137736-8	06/22/2020 10:42	499634		50	50
280-137736-3	06/22/2020 10:42	499634		50	50
280-137736-4	06/22/2020 10:42	499634		50	50
280-137736-5	06/22/2020 10:42	499634		50	50
280-137736-6	06/22/2020 10:42	499634		50	50
280-137736-7	06/22/2020 10:42	499634		50	50

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_Alp 4 Analysis Method: 350.1

Start Date: 06/23/2020 11:13 End Date: 06/23/2020 15:33

Lab Sample Id	D/F	Type	Time	Analytes																								
				NH3																								
ZZZZZZ			11:13																									
ZZZZZZ			11:15																									
ZZZZZZ			11:17																									
IC 280-499929/4			11:19	X																								
IC 280-499929/5			11:21	X																								
IC 280-499929/6			11:23	X																								
IC 280-499929/7			11:25	X																								
IC 280-499929/8			11:27	X																								
IC 280-499929/9			11:29	X																								
IC 280-499929/10			11:31	X																								
IC 280-499929/11			11:33	X																								
ZZZZZZ			11:35																									
ZZZZZZ			11:37																									
ICVL 280-499929/14	1		11:39	X																								
ICV 280-499929/15	1		11:41	X																								
ICB 280-499929/16	1		11:43	X																								
ZZZZZZ			11:45																									
LCS 280-499929/18	1	T	11:47	X																								
MB 280-499929/19	1	T	11:49	X																								
ZZZZZZ			11:51																									
ZZZZZZ			11:53																									
ZZZZZZ			11:55																									
ZZZZZZ			11:57																									
ZZZZZZ			11:59																									
ZZZZZZ			12:01																									
ZZZZZZ			12:03																									
280-137736-3	1	T	12:05	X																								
280-137736-4	1	T	12:07	X																								
280-137736-5	1	T	12:09	X																								
RINSE 280-499929/30			12:11																									
ZZZZZZ			12:13																									
CCVL 280-499929/32	1		12:15	X																								
CCV 280-499929/33	1		12:17	X																								
CCB 280-499929/34	1		12:19	X																								
ZZZZZZ			12:21																									
280-137736-6	1	T	12:23	X																								
280-137736-7	1	T	12:25	X																								
280-137736-9	1	T	12:27	X																								
280-137736-9 MS	1	T	12:29	X																								
280-137736-9 MSD	1	T	12:31	X																								
280-137736-8	1	T	12:33	X																								

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_Alp 4 Analysis Method: 350.1

Start Date: 06/23/2020 11:13 End Date: 06/23/2020 15:33

Lab Sample Id	D/F	Type	Time	Analytes																								
				NH3																								
280-137736-10	1	T	12:35	X																								
280-137736-11	1	T	12:37	X																								
280-137736-12	1	T	12:39	X																								
280-137736-13	1	T	12:41	X																								
RINSE 280-499929/46			12:43																									
ZZZZZZ			12:45																									
CCVL 280-499929/48	1		12:47	X																								
CCV 280-499929/49	1		12:49	X																								
CCB 280-499929/50	1		12:51	X																								
ZZZZZZ			12:53																									
280-137736-14	1	T	12:55	X																								
280-137736-15	1	T	12:57	X																								
280-137736-16	1	T	12:59	X																								
280-137736-17	1	T	13:01	X																								
ZZZZZZ			13:03																									
ZZZZZZ			13:05																									
ZZZZZZ			13:07																									
ZZZZZZ			13:09																									
ZZZZZZ			13:11																									
ZZZZZZ			13:13																									
RINSE 280-499929/62			13:15																									
ZZZZZZ			13:17																									
CCVL 280-499929/64	1		13:19	X																								
CCV 280-499929/65	1		13:21	X																								
CCB 280-499929/66	1		13:23	X																								
ZZZZZZ			13:25																									
ZZZZZZ			13:27																									
ZZZZZZ			13:29																									
ZZZZZZ			13:31																									
ZZZZZZ			13:33																									
ZZZZZZ			13:35																									
ZZZZZZ			13:37																									
ZZZZZZ			13:39																									
ZZZZZZ			13:41																									
ZZZZZZ			13:43																									
ZZZZZZ			13:45																									
RINSE 280-499929/78			13:47																									
ZZZZZZ			13:49																									
CCVL 280-499929/80			13:51																									
CCV 280-499929/81			13:53																									
CCB 280-499929/82			13:55																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_Alp 4 Analysis Method: 350.1

Start Date: 06/23/2020 11:13 End Date: 06/23/2020 15:33

Lab Sample Id	D/F	Type	Time	Analytes																								
				NH3																								
ZZZZZZ			13:57																									
ZZZZZZ			13:59																									
ZZZZZZ			14:01																									
ZZZZZZ			14:03																									
ZZZZZZ			14:05																									
ZZZZZZ			14:07																									
ZZZZZZ			14:09																									
ZZZZZZ			14:11																									
ZZZZZZ			14:13																									
ZZZZZZ			14:15																									
ZZZZZZ			14:17																									
RINSE 280-499929/94			14:19																									
ZZZZZZ			14:21																									
CCVL 280-499929/96			14:23																									
CCV 280-499929/97	1		14:25	X																								
CCB 280-499929/98	1		14:27	X																								
ZZZZZZ			14:29																									
ZZZZZZ			14:31																									
LCSD 280-499929/101	1	T	14:33	X																								
ZZZZZZ			14:35																									
ZZZZZZ			14:37																									
ZZZZZZ			14:40																									
ZZZZZZ			14:42																									
ZZZZZZ			14:44																									
ZZZZZZ			14:46																									
ZZZZZZ			14:48																									
ZZZZZZ			14:53																									
ZZZZZZ			14:55																									
ZZZZZZ			14:57																									
ZZZZZZ			14:59																									
RINSE 280-499929/113			15:01																									
ZZZZZZ			15:03																									
CCVL 280-499929/115			15:05																									
CCV 280-499929/116	1		15:07	X																								
CCB 280-499929/117	1		15:09	X																								
ZZZZZZ			15:11																									
ZZZZZZ			15:13																									
ZZZZZZ			15:15																									
ZZZZZZ			15:17																									
ZZZZZZ			15:19																									
ZZZZZZ			15:21																									

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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_Alp 4 Analysis Method: 350.1

Start Date: 06/23/2020 11:13 End Date: 06/23/2020 15:33

Lab Sample Id	D/F	Type	Time	Analytes																								
				NH3																								
RINSE 280-499929/124			15:23																									
ZZZZZZ			15:25																									
CCVL 280-499929/126			15:27																									
CCV 280-499929/127			15:29																									
CCB 280-499929/128			15:31																									
ZZZZZZ			15:33																									

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_Astoria Analysis Method: 351.2

Start Date: 06/24/2020 18:19 End Date: 06/24/2020 20:40

Lab Sample Id	D/F	Type	Time	Analytes																								
				TKN																								
ZZZZZZ			18:19																									
ZZZZZZ			18:20																									
ZZZZZZ			18:21																									
ZZZZZZ			18:22																									
IC 280-498263/27-A			18:24	X																								
IC 280-498263/28-A			18:25	X																								
IC 280-498263/29-A			18:26	X																								
IC 280-498263/30-A			18:27	X																								
IC 280-498263/31-A			18:29	X																								
IC 280-498263/32-A			18:30	X																								
ZZZZZZ			18:31																									
ZZZZZZ			18:32																									
ICV 280-498263/33-A	1		18:34	X																								
ICB 280-498263/34-A	1		18:35	X																								
LCS 280-499858/1-A	1	T	18:36	X																								
MB 280-499858/2-A	1	T	18:37	X																								
280-137736-9	1	T	18:39	X																								
ZZZZZZ			18:40																									
280-137736-9 MSD	1	T	18:41	X																								
ZZZZZZ			18:42																									
280-137736-3	1	T	18:44	X																								
280-137736-4	1	T	18:45	X																								
ZZZZZZ			18:46																									
ZZZZZZ			18:47																									
280-137736-5	1	T	18:49	X																								
280-137736-6	1	T	18:50	X																								
280-137736-7	1	T	18:51	X																								
280-137736-8	1	T	18:52	X																								
280-137736-10	1	T	18:54	X																								
ZZZZZZ			18:55																									
CCV 280-498263/35-A	1		18:56	X																								
CCB 280-498263/36-A	1		18:57	X																								
280-137736-11	1	T	18:59	X																								
280-137736-12	1	T	19:00	X																								
ZZZZZZ			19:01																									
ZZZZZZ			19:02																									
280-137736-14	1	T	19:04	X																								
280-137736-14 MS	1	T	19:05	X																								
280-137736-14 MSD	1	T	19:06	X																								
ZZZZZZ			19:07																									
280-137736-13	1	T	19:09	X																								

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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_Astoria Analysis Method: 351.2

Start Date: 06/24/2020 18:19 End Date: 06/24/2020 20:40

Lab Sample Id	D/F	Type	Time	Analytes																								
				TKN																								
280-137736-15	1	T	19:10	X																								
280-137736-16	1	T	19:11	X																								
280-137736-17	1	T	19:12	X																								
ZZZZZZ			19:14																									
ZZZZZZ			19:15																									
ZZZZZZ			19:16																									
ZZZZZZ			19:17																									
CCV 280-498263/35-A	1		19:19	X																								
CCB 280-498263/36-A	1		19:20	X																								
ZZZZZZ			19:21																									
ZZZZZZ			19:22																									
ZZZZZZ			19:24																									
ZZZZZZ			19:25																									
ZZZZZZ			19:26																									
ZZZZZZ			19:27																									
ZZZZZZ			19:29																									
ZZZZZZ			19:30																									
ZZZZZZ			19:31																									
ZZZZZZ			19:32																									
ZZZZZZ			19:34																									
ZZZZZZ			19:35																									
ZZZZZZ			19:36																									
ZZZZZZ			19:37																									
CCV 280-498263/35-A			19:39																									
CCB 280-498263/36-A			19:40																									
ZZZZZZ			19:41																									
ZZZZZZ			19:42																									
ZZZZZZ			19:44																									
ZZZZZZ			19:45																									
ZZZZZZ			19:46																									
ZZZZZZ			19:47																									
ZZZZZZ			19:49																									
ZZZZZZ			19:50																									
ZZZZZZ			19:51																									
ZZZZZZ			19:52																									
ZZZZZZ			19:54																									
ZZZZZZ			19:55																									
ZZZZZZ			19:56																									
CCV 280-498263/35-A			19:57																									
CCB 280-498263/36-A			19:59																									
ZZZZZZ			20:00																									

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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_Astoria Analysis Method: 351.2

Start Date: 06/24/2020 18:19 End Date: 06/24/2020 20:40

Lab Sample Id	D/F	Type	Time	Analytes																								
				TKN																								
ZZZZZZ			20:01																									
ZZZZZZ			20:02																									
ZZZZZZ			20:04																									
ZZZZZZ			20:05																									
ZZZZZZ			20:06																									
ZZZZZZ			20:07																									
ZZZZZZ			20:09																									
ZZZZZZ			20:10																									
ZZZZZZ			20:11																									
ZZZZZZ			20:12																									
ZZZZZZ			20:14																									
ZZZZZZ			20:15																									
ZZZZZZ			20:16																									
ZZZZZZ			20:17																									
ZZZZZZ			20:19																									
ZZZZZZ			20:20																									
CCV 280-498263/35-A	1		20:21	X																								
CCB 280-498263/36-A	1		20:22	X																								
ZZZZZZ			20:24																									
ZZZZZZ			20:25																									
ZZZZZZ			20:26																									
ZZZZZZ			20:27																									
280-137736-9 MS	1	T	20:29	X																								
ZZZZZZ			20:30																									
ZZZZZZ			20:31																									
ZZZZZZ			20:32																									
ZZZZZZ			20:34																									
ZZZZZZ			20:35																									
CCV 280-498263/35-A	1		20:36	X																								
CCB 280-498263/36-A	1		20:37	X																								
ZZZZZZ			20:39																									
ZZZZZZ			20:40																									

Prep Types:
T = Total/NA

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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_Alp 2 Analysis Method: 353.2

Start Date: 06/22/2020 16:32 End Date: 06/22/2020 21:28

Lab Sample Id	D/F	Type	Time	Analytes
				NNO32
ZZZZZZ			16:32	
ZZZZZZ			16:34	
ZZZZZZ			16:36	
ZZZZZZ			16:38	
IC 280-499726/5			16:40	X
IC 280-499726/6			16:42	X
IC 280-499726/7			16:44	X
IC 280-499726/8			16:46	X
IC 280-499726/9			16:48	X
IC 280-499726/10			16:50	X
IC 280-499726/11			16:52	X
IC 280-499726/12			16:54	X
IC 280-499726/13			16:56	X
ZZZZZZ			16:58	
ZZZZZZ			17:00	
ZZZZZZ			17:02	
ICV 280-499726/17	1		17:04	X
ICVL 280-499726/18	1		17:06	X
ICB 280-499726/19	1		17:08	X
ZZZZZZ			17:10	
ZZZZZZ			17:12	
ZZZZZZ			17:14	
ZZZZZZ			17:16	
ZZZZZZ			17:18	
ZZZZZZ			17:20	
ZZZZZZ			17:22	
ZZZZZZ			17:24	
ZZZZZZ			17:26	
ZZZZZZ			17:28	
ZZZZZZ			17:30	
ZZZZZZ			17:32	
ZZZZZZ			17:34	
RINSE 280-499726/33			17:36	
ZZZZZZ			17:38	
CCV 280-499726/35			17:40	
CCVL 280-499726/36			17:42	
CCB 280-499726/37			17:44	
ZZZZZZ			17:46	
ZZZZZZ			17:48	

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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_Alp 2 Analysis Method: 353.2

Start Date: 06/22/2020 16:32 End Date: 06/22/2020 21:28

Lab Sample Id	D/F	Type	Time	Analytes
				NNO32
ZZZZZZ			17:50	
ZZZZZZ			17:52	
ZZZZZZ			17:54	
ZZZZZZ			17:56	
ZZZZZZ			17:58	
ZZZZZZ			18:00	
ZZZZZZ			18:02	
ZZZZZZ			18:04	
ZZZZZZ			18:06	
RINSE 280-499726/49			18:08	
ZZZZZZ			18:10	
CCV 280-499726/51			18:12	
CCVL 280-499726/52			18:14	
CCB 280-499726/53			18:16	
ZZZZZZ			18:18	
ZZZZZZ			18:20	
ZZZZZZ			18:22	
ZZZZZZ			18:24	
ZZZZZZ			18:26	
ZZZZZZ			18:28	
ZZZZZZ			18:30	
ZZZZZZ			18:32	
ZZZZZZ			18:34	
ZZZZZZ			18:36	
ZZZZZZ			18:38	
RINSE 280-499726/65			18:40	
ZZZZZZ			18:42	
CCV 280-499726/67			18:44	
CCVL 280-499726/68			18:46	
CCB 280-499726/69			18:48	
ZZZZZZ			18:50	
ZZZZZZ			18:52	
ZZZZZZ			18:54	
ZZZZZZ			18:56	
ZZZZZZ			18:58	
ZZZZZZ			19:00	
ZZZZZZ			19:02	
ZZZZZZ			19:04	
ZZZZZZ			19:06	

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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_Alp 2 Analysis Method: 353.2

Start Date: 06/22/2020 16:32 End Date: 06/22/2020 21:28

Lab Sample Id	D/F	Type	Time	Analytes																								
				NNO32																								
ZZZZZZ			19:08																									
ZZZZZZ			19:10																									
RINSE 280-499726/81			19:12																									
ZZZZZZ			19:14																									
CCV 280-499726/83			19:16																									
CCVL 280-499726/84			19:18																									
CCB 280-499726/85			19:20																									
ZZZZZZ			19:22																									
ZZZZZZ			19:24																									
ZZZZZZ			19:26																									
ZZZZZZ			19:28																									
ZZZZZZ			19:30																									
ZZZZZZ			19:32																									
ZZZZZZ			19:34																									
ZZZZZZ			19:36																									
ZZZZZZ			19:38																									
ZZZZZZ			19:40																									
ZZZZZZ			19:42																									
RINSE 280-499726/97			19:44																									
ZZZZZZ			19:46																									
CCV 280-499726/99	1		19:48	X																								
CCVL 280-499726/100	1		19:50	X																								
CCB 280-499726/101	1		19:52	X																								
ZZZZZZ			19:54																									
LCS 280-499726/103	1	T	19:56	X																								
MB 280-499726/104	1	T	19:58	X																								
ZZZZZZ			20:00																									
ZZZZZZ			20:02																									
ZZZZZZ			20:04																									
ZZZZZZ			20:06																									
ZZZZZZ			20:08																									
ZZZZZZ			20:10																									
280-137736-3	25	T	20:12	X																								
280-137736-4	1	T	20:14	X																								
RINSE 280-499726/113			20:16																									
ZZZZZZ			20:18																									
CCV 280-499726/115	1		20:20	X																								
CCVL 280-499726/116	1		20:22	X																								
CCB 280-499726/117	1		20:24	X																								

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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_Alp 2 Analysis Method: 353.2

Start Date: 06/22/2020 16:32 End Date: 06/22/2020 21:28

Lab Sample Id	D/F	Type	Time	Analytes
				NNO32
ZZZZZZ			20:26	
280-137736-5	1	T	20:28	X
280-137736-6	20	T	20:30	X
280-137736-7	20	T	20:32	X
280-137736-8	1	T	20:34	X
280-137736-9	5	T	20:36	X
280-137736-9 MS	5	T	20:38	X
280-137736-9 MSD	5	T	20:40	X
280-137736-10	20	T	20:42	X
280-137736-11	1	T	20:44	X
280-137736-12	1	T	20:46	X
RINSE 280-499726/129			20:48	
ZZZZZZ			20:50	
CCV 280-499726/131	1		20:52	X
CCVL 280-499726/132	1		20:54	X
CCB 280-499726/133	1		20:56	X
ZZZZZZ			20:58	
280-137736-13	1	T	21:00	X
280-137736-14	10	T	21:02	X
280-137736-15	1	T	21:04	X
280-137736-16	1	T	21:06	X
280-137736-17	1	T	21:08	X
ZZZZZZ			21:10	
ZZZZZZ			21:12	
ZZZZZZ			21:14	
ZZZZZZ			21:16	
RINSE 280-499726/144			21:18	
ZZZZZZ			21:20	
CCV 280-499726/146	1		21:22	X
CCVL 280-499726/147	1		21:24	X
CCB 280-499726/148	1		21:26	X
ZZZZZZ			21:28	

Prep Types:
T = Total/NA

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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: NOEQUIP Analysis Method: 9034

Start Date: 06/19/2020 12:54 End Date: 06/19/2020 12:54

Lab Sample Id	D/F	Type	Time	Analytes																								
				S2																								
LCS 280-499423/1-A	1	T	12:54	X																								
MB 280-499423/2-A	1	T	12:54	X																								
ZZZZZZ			12:54																									
ZZZZZZ			12:54																									
ZZZZZZ			12:54																									
ZZZZZZ			12:54																									
ZZZZZZ			12:54																									
ZZZZZZ			12:54																									
ZZZZZZ			12:54																									
ZZZZZZ			12:54																									
ZZZZZZ			12:54																									
ZZZZZZ			12:54																									
ZZZZZZ			12:54																									
ZZZZZZ			12:54																									
ZZZZZZ			12:54																									
280-137736-14	1	T	12:54	X																								
ZZZZZZ			12:54																									
ZZZZZZ			12:54																									

Prep Types:
T = Total/NA

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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: NOEQUIP Analysis Method: 9034

Start Date: 06/19/2020 17:04 End Date: 06/19/2020 17:04

Lab Sample Id	D/F	Type	Time	Analytes																								
				S2																								
LCS 280-499428/1-A	1	T	17:04	X																								
MB 280-499428/2-A	1	T	17:04	X																								
ZZZZZZ			17:04																									
ZZZZZZ			17:04																									
ZZZZZZ			17:04																									
280-137736-15	1	T	17:04	X																								
ZZZZZZ			17:04																									
280-137736-10	1	T	17:04	X																								
280-137736-11	1	T	17:04	X																								
280-137736-12	1	T	17:04	X																								
280-137736-13	1	T	17:04	X																								
ZZZZZZ			17:04																									
ZZZZZZ			17:04																									
ZZZZZZ			17:04																									
ZZZZZZ			17:04																									
ZZZZZZ			17:04																									
ZZZZZZ			17:04																									
ZZZZZZ			17:04																									

Prep Types:
T = Total/NA

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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: NOEQUIP Analysis Method: 9034

Start Date: 06/22/2020 12:04 End Date: 06/22/2020 12:04

Lab Sample Id	D/F	Type	Time	Analytes																								
				S2																								
LCS 280-499634/1-A	1	T	12:04	X																								
MB 280-499634/2-A	1	T	12:04	X																								
280-137736-9	1	T	12:04	X																								
280-137736-9 MS	1	T	12:04	X																								
280-137736-9 MSD	1	T	12:04	X																								
280-137736-16	1	T	12:04	X																								
280-137736-17	1	T	12:04	X																								
280-137736-8	1	T	12:04	X																								
280-137736-3	1	T	12:04	X																								
280-137736-4	1	T	12:04	X																								
280-137736-5	1	T	12:04	X																								
280-137736-6	1	T	12:04	X																								
ZZZZZZ			12:04																									
ZZZZZZ			12:04																									
ZZZZZZ			12:04																									
ZZZZZZ			12:04																									
ZZZZZZ			12:04																									
280-137736-7	1	T	12:04	X																								

Prep Types:
T = Total/NA

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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_IonChrom11 Analysis Method: 9056A

Start Date: 06/09/2020 10:46 End Date: 06/09/2020 22:49

Lab Sample Id	D/F	Type	Time	Analytes																								
				SO4																								
STD 280-497981/2 IC	1		10:46	X																								
STD 280-497981/3 IC	1		11:03	X																								
STD 280-497981/4 IC	1		11:19	X																								
STD 280-497981/5 IC	1		11:36	X																								
STD 280-497981/6 IC	1		11:52	X																								
STD 280-497981/7 IC	1		12:09	X																								
ICV 280-497981/8	1		12:25	X																								
ICB 280-497981/9	1		12:41	X																								
ZZZZZZ			12:58																									
ZZZZZZ			13:14																									
ZZZZZZ			13:31																									
ZZZZZZ			13:47																									
ZZZZZZ			14:03																									
ZZZZZZ			14:20																									
ZZZZZZ			14:36																									
ZZZZZZ			14:53																									
ZZZZZZ			15:09																									
ZZZZZZ			15:25																									
ZZZZZZ			15:42																									
ZZZZZZ			15:58																									
ZZZZZZ			16:15																									
ZZZZZZ			16:31																									
CCV 280-497981/24			16:48																									
CCB 280-497981/25			17:04																									
ZZZZZZ			17:20																									
ZZZZZZ			17:37																									
ZZZZZZ			17:53																									
ZZZZZZ			18:10																									
ZZZZZZ			18:26																									
ZZZZZZ			18:42																									
ZZZZZZ			18:59																									
ZZZZZZ			19:15																									
ZZZZZZ			19:32																									
ZZZZZZ			19:48																									
CCV 280-497981/36			20:05																									
CCB 280-497981/37			20:21																									
ZZZZZZ			20:37																									
ZZZZZZ			20:54																									
ZZZZZZ			21:10																									
ZZZZZZ			21:27																									
ZZZZZZ			21:43																									

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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_IonChrom11 Analysis Method: 9056A

Start Date: 06/09/2020 10:46 End Date: 06/09/2020 22:49

Lab Sample Id	D/F	Type	Time	Analytes																								
				SO4																								
ZZZZZZ			21:59																									
ZZZZZZ			22:16																									
CCV 280-497981/45			22:32																									
CCB 280-497981/46			22:49																									

Prep Types:
=

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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_IonChrom11 Analysis Method: 9056A

Start Date: 06/30/2020 10:18 End Date: 07/01/2020 04:55

Lab Sample Id	D/F	Type	Time	Analytes																								
				SO4																								
CCV 280-500630/1	1		10:18	X																								
CCB 280-500630/2	1		10:34	X																								
MRL 280-500630/3	1	T	10:50	X																								
LCS 280-500630/4	1	T	11:07	X																								
LCSD 280-500630/5	1	T	11:23	X																								
MB 280-500630/6	1	T	11:40	X																								
ZZZZZZ			12:31																									
ZZZZZZ			12:46																									
ZZZZZZ			13:03																									
ZZZZZZ			13:19																									
ZZZZZZ			13:36																									
ZZZZZZ			13:52																									
ZZZZZZ			14:09																									
ZZZZZZ			14:25																									
ZZZZZZ			14:41																									
ZZZZZZ			14:58																									
CCV 280-500630/17	1		15:14	X																								
CCB 280-500630/18	1		15:31	X																								
ZZZZZZ			15:47																									
ZZZZZZ			16:03																									
ZZZZZZ			16:20																									
ZZZZZZ			16:36																									
CCV 280-500630/23			16:53																									
CCB 280-500630/24			17:09																									
ZZZZZZ			19:37																									
ZZZZZZ			19:54																									
CCV 280-500630/35	1		20:10	X																								
CCB 280-500630/36	1		20:27	X																								
ZZZZZZ			20:43																									
ZZZZZZ			20:59																									
ZZZZZZ			21:16																									
ZZZZZZ			21:32																									
ZZZZZZ			21:49																									
280-137736-3	1	T	22:05	X																								
280-137736-4	5	T	22:22	X																								
280-137736-4 DU	5	T	22:38	X																								
280-137736-4 MS	5	T	22:54	X																								
280-137736-4 MSD	5	T	23:11	X																								
CCV 280-500630/47	1		23:27	X																								
CCB 280-500630/48	1		23:44	X																								
280-137736-5	5	T	00:00	X																								

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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_IonChrom11 Analysis Method: 9056A

Start Date: 06/30/2020 10:18 End Date: 07/01/2020 04:55

Lab Sample Id	D/F	Type	Time	Analytes																								
				SO4																								
280-137736-7	1	T	00:16	X																								
280-137736-8	5	T	00:33	X																								
280-137736-9	1	T	00:49	X																								
280-137736-9 DU	1	T	01:06	X																								
280-137736-9 MS	1	T	01:22	X																								
280-137736-9 MSD	1	T	01:38	X																								
280-137736-10	1	T	01:55	X																								
280-137736-11	1	T	02:11	X																								
ZZZZZZ			02:28																									
CCV 280-500630/59	1		02:44	X																								
CCB 280-500630/60	1		03:01	X																								
280-137736-13	1	T	03:17	X																								
280-137736-14	1	T	03:33	X																								
ZZZZZZ			03:50																									
280-137736-16	1	T	04:06	X																								
280-137736-17	1	T	04:23	X																								
CCV 280-500630/66	1		04:39	X																								
CCB 280-500630/67	1		04:55	X																								

Prep Types:
T = Total/NA

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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_IonChrom11 Analysis Method: 9056A

Start Date: 07/01/2020 09:47 End Date: 07/02/2020 08:37

Lab Sample Id	D/F	Type	Time	Analytes																								
				SO4																								
CCV 280-500783/1	1		09:47	X																								
CCB 280-500783/2	1		10:03	X																								
MRL 280-500783/3	1	T	10:19	X																								
LCS 280-500783/4	1	T	10:36	X																								
LCSD 280-500783/5	1	T	10:52	X																								
MB 280-500783/6	1	T	11:09	X																								
280-137736-6	1	T	16:54	X																								
ZZZZZZ			17:10																									
280-137736-12	5	T	17:26	X																								
280-137736-15	5	T	17:43	X																								
ZZZZZZ			17:59																									
ZZZZZZ			18:15																									
ZZZZZZ			18:32																									
ZZZZZZ			18:48																									
ZZZZZZ			19:05																									
ZZZZZZ			19:21																									
CCV 280-500783/17	1		19:38	X																								
CCB 280-500783/18	1		19:54	X																								
ZZZZZZ			20:10																									
ZZZZZZ			20:27																									
ZZZZZZ			20:43																									
ZZZZZZ			21:00																									
ZZZZZZ			21:16																									
ZZZZZZ			21:32																									
ZZZZZZ			21:49																									
ZZZZZZ			22:05																									
ZZZZZZ			22:22																									
ZZZZZZ			22:38																									
CCV 280-500783/29	1		22:55	X																								
CCB 280-500783/30	1		23:11	X																								
ZZZZZZ			23:27																									
ZZZZZZ			23:44																									
ZZZZZZ			00:00																									
ZZZZZZ			00:17																									
ZZZZZZ			00:33																									
ZZZZZZ			00:49																									
ZZZZZZ			01:06																									
ZZZZZZ			01:22																									
ZZZZZZ			01:39																									
ZZZZZZ			01:55																									
CCV 280-500783/41	1		02:11	X																								

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_IonChrom11 Analysis Method: 9056A

Start Date: 07/01/2020 09:47 End Date: 07/02/2020 08:37

Lab Sample Id	D/F	Type	Time	Analytes																								
				SO4																								
CCB 280-500783/42	1		02:28	X																								
ZZZZZZ			02:44																									
ZZZZZZ			03:01																									
ZZZZZZ			03:17																									
ZZZZZZ			03:34																									
ZZZZZZ			03:50																									
ZZZZZZ			04:06																									
ZZZZZZ			04:23																									
CCV 280-500783/50			04:39																									
CCB 280-500783/51			04:56																									
ZZZZZZ			05:12																									
ZZZZZZ			05:28																									
ZZZZZZ			05:45																									
ZZZZZZ			06:01																									
CCV 280-500783/56			08:21																									
CCB 280-500783/57			08:37																									

Prep Types:
T = Total/NA

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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_SHI2 Analysis Method: 9060A

Start Date: 07/02/2020 17:28 End Date: 07/03/2020 17:13

Lab Sample Id	D/F	Type	Time	Analytes
				DOCQ
ICV 280-501126/1	1		17:28	X
ICB 280-501126/2	1		17:50	X
ZZZZZZ			18:13	
ZZZZZZ			18:35	
ZZZZZZ			18:57	
ZZZZZZ			19:25	
ZZZZZZ			19:52	
ZZZZZZ			20:14	
ZZZZZZ			20:37	
ZZZZZZ			21:00	
ZZZZZZ			21:22	
ZZZZZZ			21:52	
ZZZZZZ			22:14	
ZZZZZZ			22:37	
ZZZZZZ			22:59	
CCV 280-501126/16			23:22	
CCB 280-501126/17			23:45	
ZZZZZZ			00:07	
ZZZZZZ			00:29	
ZZZZZZ			00:52	
ZZZZZZ			01:14	
ZZZZZZ			01:37	
ZZZZZZ			02:00	
ZZZZZZ			02:23	
ZZZZZZ			02:50	
ZZZZZZ			03:12	
ZZZZZZ			03:35	
CCV 280-501126/28	1		03:58	X
CCB 280-501126/29	1		04:21	X
ZZZZZZ			04:43	
LCS 280-500659/25-A	1	D	05:06	X
LCSD 280-500659/26-A	1	D	05:29	X
MB 280-500659/27-A	1	D	05:51	X
ZZZZZZ			06:14	
ZZZZZZ			06:36	
ZZZZZZ			07:00	
ZZZZZZ			07:23	
ZZZZZZ			07:45	
ZZZZZZ			08:12	
CCV 280-501126/40	1		08:35	X

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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_SHI2 Analysis Method: 9060A

Start Date: 07/02/2020 17:28 End Date: 07/03/2020 17:13

Lab Sample Id	D/F	Type	Time	Analytes																									
				DOCQ																									
CCB 280-501126/41	1		08:57	X																									
ZZZZZZ			09:20																										
ZZZZZZ			09:42																										
ZZZZZZ			10:05																										
ZZZZZZ			10:27																										
ZZZZZZ			10:49																										
ZZZZZZ			11:12																										
ZZZZZZ			11:34																										
ZZZZZZ			11:57																										
ZZZZZZ			12:20																										
ZZZZZZ			12:43																										
CCV 280-501126/52	1		13:05	X																									
CCB 280-501126/53	1		13:28	X																									
280-137736-15	1	D	13:51	X																									
280-137736-16	1	D	14:13	X																									
280-137736-17	1	D	14:36	X																									
ZZZZZZ			14:58																										
ZZZZZZ			15:21																										
ZZZZZZ			15:43																										
ZZZZZZ			16:05																										
ZZZZZZ			16:28																										
CCV 280-501126/62	1		16:51	X																									
CCB 280-501126/63	1		17:13	X																									

Prep Types:
D = Dissolved

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_SHI2 Analysis Method: 9060A

Start Date: 07/06/2020 17:54 End Date: 07/07/2020 09:37

Lab Sample Id	D/F	Type	Time	Analytes
				DOCQ
ICV 280-501318/1	1		17:54	X
ICB 280-501318/2	1		18:17	X
LCS 280-501228/1-A	1	D	18:49	X
LCSD 280-501228/2-A	1	D	19:12	X
MB 280-501228/3-A	1	D	19:44	X
ZZZZZZ			20:11	
ZZZZZZ			20:38	
ZZZZZZ			21:01	
ZZZZZZ			21:24	
ZZZZZZ			21:46	
ZZZZZZ			22:09	
ZZZZZZ			22:31	
ZZZZZZ			22:58	
ZZZZZZ			23:21	
CCV 280-501318/15	1		23:43	X
CCB 280-501318/16	1		00:11	X
ZZZZZZ			00:38	
ZZZZZZ			01:01	
ZZZZZZ			01:24	
ZZZZZZ			01:46	
ZZZZZZ			02:09	
ZZZZZZ			02:32	
280-137736-3	1	D	02:55	X
280-137736-4	1	D	03:17	X
280-137736-5	1	D	03:40	X
280-137736-6	1	D	04:02	X
CCV 280-501318/27	1		04:25	X
CCB 280-501318/28	1		04:57	X
280-137736-7	1	D	05:19	X
280-137736-8	1	D	05:42	X
280-137736-9	1	D	06:04	X
280-137736-9 MS	1	D	06:27	X
280-137736-9 MSD	1	D	06:50	X
280-137736-10	1	D	07:13	X
280-137736-11	1	D	07:35	X
280-137736-12	1	D	07:58	X
280-137736-13	1	D	08:20	X
280-137736-14	1	D	08:42	X
CCV 280-501318/39	1		09:05	X
CCB 280-501318/40	1		09:37	X

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_SHI2 Analysis Method: 9060A

Start Date: 07/06/2020 17:54 End Date: 07/07/2020 09:37

Lab Sample Id	D/F	Type	Time	Analytes																									
				DOCQ																									

Prep Types:
D = Dissolved

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_AT4 Analysis Method: SM 2320B

Start Date: 06/18/2020 12:10 End Date: 06/18/2020 19:51

Lab Sample Id	D/F	Type	Time	Analytes																								
				Alk																								
RINSE 280-499387/1			12:10																									
ZZZZZZ			12:16																									
ZZZZZZ			12:19																									
ZZZZZZ			12:25																									
ZZZZZZ			12:31																									
ZZZZZZ			12:37																									
ZZZZZZ			12:43																									
ZZZZZZ			12:49																									
ZZZZZZ			12:55																									
ZZZZZZ			13:01																									
ZZZZZZ			13:06																									
ZZZZZZ			13:13																									
ZZZZZZ			13:19																									
ZZZZZZ			13:25																									
ZZZZZZ			13:31																									
ZZZZZZ			13:37																									
CCV 280-499387/17			13:44																									
CCB 280-499387/18			13:49																									
ZZZZZZ			13:55																									
ZZZZZZ			14:00																									
ZZZZZZ			14:06																									
ZZZZZZ			14:12																									
ZZZZZZ			14:17																									
ZZZZZZ			14:23																									
ZZZZZZ			14:29																									
ZZZZZZ			14:35																									
ZZZZZZ			14:42																									
ZZZZZZ			14:48																									
CCV 280-499387/29			14:55																									
CCB 280-499387/30			15:00																									
ZZZZZZ			15:06																									
ZZZZZZ			15:13																									
ZZZZZZ			15:18																									
ZZZZZZ			15:24																									
ZZZZZZ			15:30																									
ZZZZZZ			15:36																									
ZZZZZZ			15:42																									
ZZZZZZ			15:48																									
ZZZZZZ			15:55																									
ZZZZZZ			16:02																									
ZZZZZZ			16:08																									

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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_AT4 Analysis Method: SM 2320B

Start Date: 06/18/2020 12:10 End Date: 06/18/2020 19:51

Lab Sample Id	D/F	Type	Time	Analytes																								
				Alk																								
ZZZZZZ			16:14																									
ZZZZZZ			16:17																									
CCV 280-499387/44			16:24																									
CCB 280-499387/45			16:29																									
ZZZZZZ			16:32																									
ZZZZZZ			16:38																									
ZZZZZZ			16:41																									
ZZZZZZ			16:47																									
ZZZZZZ			16:53																									
ZZZZZZ			16:58																									
ZZZZZZ			17:03																									
ZZZZZZ			17:09																									
ZZZZZZ			17:14																									
ZZZZZZ			17:20																									
CCV 280-499387/56	1		17:26	X																								
CCB 280-499387/57	1		17:32	X																								
LCS 280-499387/58	1	T	17:38	X																								
LCSD 280-499387/59	1	T	17:45	X																								
MB 280-499387/60	1	T	17:50	X																								
ZZZZZZ			17:55																									
ZZZZZZ			18:00																									
280-137736-3	1	T	18:06	X																								
280-137736-4	1	T	18:13	X																								
280-137736-5	1	T	18:20	X																								
280-137736-7	1	T	18:26	X																								
280-137736-8	1	T	18:33	X																								
280-137736-9	1	T	18:38	X																								
280-137736-10	1	T	18:44	X																								
280-137736-11	1	T	18:51	X																								
CCV 280-499387/71	1		18:57	X																								
CCB 280-499387/72	1		19:02	X																								
280-137736-12	1	T	19:08	X																								
280-137736-13	1	T	19:14	X																								
280-137736-14	1	T	19:21	X																								
280-137736-15	1	T	19:27	X																								
280-137736-16	1	T	19:33	X																								
280-137736-17	1	T	19:39	X																								
CCV 280-499387/79	1		19:46	X																								
CCB 280-499387/80	1		19:51	X																								

Prep Types:
T = Total/NA

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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_AT4 Analysis Method: SM 2320B

Start Date: 06/19/2020 13:20 End Date: 06/19/2020 19:43

Lab Sample Id	D/F	Type	Time	Analytes																								
				Alk																								
RINSE 280-499605/1			13:20																									
ZZZZZZ			13:26																									
ZZZZZZ			13:29																									
LCS 280-499605/4	1	T	13:36	X																								
MB 280-499605/5	1	T	13:41	X																								
ZZZZZZ			13:47																									
ZZZZZZ			13:54																									
ZZZZZZ			14:01																									
ZZZZZZ			14:08																									
ZZZZZZ			14:15																									
ZZZZZZ			14:21																									
ZZZZZZ			14:27																									
ZZZZZZ			14:32																									
ZZZZZZ			14:38																									
280-137736-6	1	T	14:44	X																								
CCV 280-499605/16	1		14:50	X																								
CCB 280-499605/17	1		14:56	X																								
ZZZZZZ			15:01																									
ZZZZZZ			15:07																									
ZZZZZZ			15:13																									
ZZZZZZ			15:19																									
ZZZZZZ			15:25																									
ZZZZZZ			15:30																									
ZZZZZZ			15:36																									
ZZZZZZ			15:41																									
ZZZZZZ			15:46																									
ZZZZZZ			15:52																									
CCV 280-499605/28			15:58																									
CCB 280-499605/29			16:04																									
ZZZZZZ			16:10																									
ZZZZZZ			16:16																									
ZZZZZZ			16:22																									
ZZZZZZ			16:27																									
ZZZZZZ			16:33																									
ZZZZZZ			16:38																									
ZZZZZZ			16:45																									
ZZZZZZ			16:51																									
ZZZZZZ			16:57																									
ZZZZZZ			17:03																									
ZZZZZZ			17:09																									
ZZZZZZ			17:15																									

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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Instrument ID: WC_AT4 Analysis Method: SM 2320B

Start Date: 06/19/2020 13:20 End Date: 06/19/2020 19:43

Lab Sample Id	D/F	Type	Time	Analytes																								
				Alk																								
CCV 280-499605/42			17:21																									
CCB 280-499605/43			17:26																									
ZZZZZZ			17:31																									
ZZZZZZ			17:36																									
ZZZZZZ			17:42																									
ZZZZZZ			17:48																									
ZZZZZZ			17:53																									
ZZZZZZ			17:59																									
ZZZZZZ			18:04																									
ZZZZZZ			18:09																									
ZZZZZZ			18:15																									
ZZZZZZ			18:21																									
CCV 280-499605/54			18:27																									
CCB 280-499605/55			18:33																									
ZZZZZZ			18:39																									
ZZZZZZ			18:44																									
ZZZZZZ			18:49																									
ZZZZZZ			18:53																									
ZZZZZZ			19:00																									
ZZZZZZ			19:05																									
ZZZZZZ			19:10																									
ZZZZZZ			19:16																									
ZZZZZZ			19:22																									
ZZZZZZ			19:27																									
ZZZZZZ			19:32																									
CCV 280-499605/67			19:38																									
CCB 280-499605/68			19:43																									

Prep Types:
T = Total/NA

FORM XIII-IN

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499929 Batch Start Date: 06/23/20 11:13 Batch Analyst: Hunter, Brandon W

Batch Method: 350.1 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ClResPres	InitialAmount	FinalAmount	Initial pH	350.1 cal 00421	350.1 ICV 00409
ICVL 280-499929/14		350.1			100 mL	100 mL			0.5 mL
ICV 280-499929/15		350.1			100 mL	100 mL			2.5 mL
ICB 280-499929/16		350.1			10 mL	10 mL			
LCS 280-499929/18		350.1			100 mL	100 mL		2.5 mL	
MB 280-499929/19		350.1			10 mL	10 mL			
280-137736-C-3	G0091-20A	350.1	T	No	10 mL	10 mL	<2 SU		
280-137736-C-4	G0123-20A	350.1	T	No	10 mL	10 mL	<2 SU		
280-137736-C-5	G0122-20A	350.1	T	No	10 mL	10 mL	<2 SU		
CCVL 280-499929/32		350.1			100 mL	100 mL		0.5 mL	
CCV 280-499929/33		350.1			100 mL	100 mL		2.5 mL	
CCB 280-499929/34		350.1			10 mL	10 mL			
280-137736-C-6	G0096-20A	350.1	T	No	10 mL	10 mL	<2 SU		
280-137736-C-7	G0296-20A	350.1	T	No	10 mL	10 mL	<2 SU		
280-137736-C-9	PZ019-20A	350.1	T	No	10 mL	10 mL	<2 SU		
280-137736-C-9 MS	PZ019-20A	350.1	T	No	10 mL	10 mL	<2 SU	0.1 mL	
280-137736-C-9 MSD	PZ019-20A	350.1	T	No	10 mL	10 mL	<2 SU	0.1 mL	
280-137736-C-8	G0092-20A	350.1	T	No	10 mL	10 mL	<2 SU		
280-137736-C-10	PZ020-20A	350.1	T	No	10 mL	10 mL	<2 SU		
280-137736-C-11	G0087-20A	350.1	T	No	10 mL	10 mL	<2 SU		
280-137736-C-12	G0088-20A	350.1	T	No	10 mL	10 mL	<2 SU		
280-137736-C-13	G0089-20A	350.1	T	No	10 mL	10 mL	<2 SU		
CCVL 280-499929/48		350.1			100 mL	100 mL		0.5 mL	
CCV 280-499929/49		350.1			100 mL	100 mL		2.5 mL	
CCB 280-499929/50		350.1			10 mL	10 mL			
280-137736-C-14	G0077-20A	350.1	T	No	10 mL	10 mL	<2 SU		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499929 Batch Start Date: 06/23/20 11:13 Batch Analyst: Hunter, Brandon W

Batch Method: 350.1 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ClResPres	InitialAmount	FinalAmount	Initial pH	350.1 cal 00421	350.1 ICV 00409
280-137736-C-15	G0078-20A	350.1	T	No	10 mL	10 mL	<2 SU		
280-137736-C-16	G0093-20A	350.1	T	No	10 mL	10 mL	<2 SU		
280-137736-C-17	G0086-20A	350.1	T	No	10 mL	10 mL	<2 SU		
CCVL 280-499929/64		350.1			100 mL	100 mL			
CCV 280-499929/65		350.1			100 mL	100 mL			
CCB 280-499929/66		350.1			10 mL	10 mL			
CCV 280-499929/97		350.1			100 mL	100 mL		2.5 mL	
CCB 280-499929/98		350.1			10 mL	10 mL			
LCSD 280-499929/101		350.1			100 mL	100 mL		2.5 mL	
CCV 280-499929/116		350.1			100 mL	100 mL		2.5 mL	
CCB 280-499929/117		350.1			10 mL	10 mL			

Batch Notes	
Batch Comment	BWH
Carrier Identification	350.1 complex_00484
Hypochlorite ID	350.1 bleach_01261
Sodium Nitroprusside ID	350.1 color_00204
Pipette/Syringe/Dispenser ID	BWh100, BWH1000, BWH5000

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 498263 Batch Start Date: 06/10/20 18:12 Batch Analyst: Cherry, Scott V

Batch Method: 351.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TKN 25ppm 00809	TKN ICV 25 00094		
ICV 280-498263/33		351.2, 351.2		25 mL	25 mL		5 mL		
ICB 280-498263/34		351.2, 351.2		25 mL	25 mL				
CCV 280-498263/35		351.2, 351.2		25 mL	25 mL	5 mL			
CCB 280-498263/36		351.2, 351.2		25 mL	25 mL				

Batch Notes	
Block Digestion End time	06/10/20 2340
Block Digestion Start time	06/10/20 1840
Block Digestor ID	TKN Hotblock
Digestion Solution ID	TKN digestion_00135
Oven, Bath or Block Temperature 1	165 Degrees C
Oven, Bath or Block Temperature 2	380 Degrees C

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499858 Batch Start Date: 06/23/20 16:29 Batch Analyst: Cherry, Scott V

Batch Method: 351.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	TKN 25ppm 00809		
LCS 280-499858/1		351.2, 351.2			25 mL	25 mL	6 mL		
MB 280-499858/2		351.2, 351.2			25 mL	25 mL			
280-137736-C-9	PZ019-20A	351.2, 351.2	T	<2	25 mL	25 mL			
280-137736-C-9 MS	PZ019-20A	351.2, 351.2	T	<2	25 mL	25 mL	3 mL		
280-137736-C-9 MSD	PZ019-20A	351.2, 351.2	T	<2	25 mL	25 mL	3 mL		
280-137736-C-3	G0091-20A	351.2, 351.2	T	<2	25 mL	25 mL			
280-137736-C-4	G0123-20A	351.2, 351.2	T	<2	25 mL	25 mL			
280-137736-C-5	G0122-20A	351.2, 351.2	T	<2	25 mL	25 mL			
280-137736-C-6	G0096-20A	351.2, 351.2	T	<2	25 mL	25 mL			
280-137736-C-7	G0296-20A	351.2, 351.2	T	<2	25 mL	25 mL			
280-137736-C-8	G0092-20A	351.2, 351.2	T	<2	25 mL	25 mL			
280-137736-C-10	PZ020-20A	351.2, 351.2	T	<2	25 mL	25 mL			
280-137736-C-11	G0087-20A	351.2, 351.2	T	<2	25 mL	25 mL			
280-137736-C-12	G0088-20A	351.2, 351.2	T	<2	25 mL	25 mL			
280-137736-C-14	G0077-20A	351.2, 351.2	T	<2	25 mL	25 mL			
280-137736-C-14 MS	G0077-20A	351.2, 351.2	T	<2	25 mL	25 mL	3 mL		
280-137736-C-14 MSD	G0077-20A	351.2, 351.2	T	<2	25 mL	25 mL	3 mL		
280-137736-C-13	G0089-20A	351.2, 351.2	T	<2	25 mL	25 mL			
280-137736-C-15	G0078-20A	351.2, 351.2	T	<2	25 mL	25 mL			
280-137736-C-16	G0093-20A	351.2, 351.2	T	<2	25 mL	25 mL			
280-137736-C-17	G0086-20A	351.2, 351.2	T	<2	25 mL	25 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499858 Batch Start Date: 06/23/20 16:29 Batch Analyst: Cherry, Scott V

Batch Method: 351.2 Batch End Date:

Batch Notes	
Block Digestion End time	06/23/20 2300
Block Digestion Start time	06/23/20 1700
Block Digestor ID	TKN Hotblock
Digestion Solution ID	TKN digestion_00136
Oven, Bath or Block Temperature 1	165 Degrees C
Oven, Bath or Block Temperature 2	380 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 500036 Batch Start Date: 06/24/20 18:19 Batch Analyst: Cherry, Scott V

Batch Method: 351.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount					
ICV 280-498263/33-A		351.2		4 mL					
ICB 280-498263/34-A		351.2		4 mL					
LCS 280-499858/1-A		351.2		4 mL					
MB 280-499858/2-A		351.2		4 mL					
280-137736-C-9-A	PZ019-20A	351.2	T	4 mL					
280-137736-C-9-C MSD	PZ019-20A	351.2	T	4 mL					
280-137736-C-3-A	G0091-20A	351.2	T	4 mL					
280-137736-C-4-A	G0123-20A	351.2	T	4 mL					
280-137736-C-5-A	G0122-20A	351.2	T	4 mL					
280-137736-C-6-A	G0096-20A	351.2	T	4 mL					
280-137736-C-7-A	G0296-20A	351.2	T	4 mL					
280-137736-C-8-A	G0092-20A	351.2	T	4 mL					
280-137736-C-10-A	PZ020-20A	351.2	T	4 mL					
CCV 280-498263/35-A		351.2		4 mL					
CCB 280-498263/36-A		351.2		4 mL					
280-137736-C-11-A	G0087-20A	351.2	T	4 mL					
280-137736-C-12-A	G0088-20A	351.2	T	4 mL					
280-137736-C-14-A	G0077-20A	351.2	T	4 mL					
280-137736-C-14-B MS	G0077-20A	351.2	T	4 mL					
280-137736-C-14-C MSD	G0077-20A	351.2	T	4 mL					
280-137736-C-13-A	G0089-20A	351.2	T	4 mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 500036 Batch Start Date: 06/24/20 18:19 Batch Analyst: Cherry, Scott V

Batch Method: 351.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount					
280-137736-C-15-A	G0078-20A	351.2	T	4 mL					
280-137736-C-16-A	G0093-20A	351.2	T	4 mL					
280-137736-C-17-A	G0086-20A	351.2	T	4 mL					
CCV 280-498263/35-A		351.2		4 mL					
CCB 280-498263/36-A		351.2		4 mL					
CCV 280-498263/35-A		351.2		4 mL					
CCB 280-498263/36-A		351.2		4 mL					
280-137736-C-9-B MS	PZ019-20A	351.2	T	4 mL					
CCV 280-498263/35-A		351.2		4 mL					
CCB 280-498263/36-A		351.2		4 mL					

Batch Notes	
Buffer Reagent ID	TKN Buffer_00125
Hypochlorite ID	TKN hypo_00669
Sodium Nitroprusside ID	sodium nitro_00100
Pipette/Syringe/Dispenser ID	5000ad, 1000ad

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499726 Batch Start Date: 06/22/20 16:32 Batch Analyst: Cherry, Scott V

Batch Method: 353.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	NXN CAL INT 00535	NXN ICV INT 00516		
ICV 280-499726/17		353.2		100 mL	100 mL		5 mL		
ICVL 280-499726/18		353.2		100 mL	100 mL		2 mL		
ICB 280-499726/19		353.2		100 mL	100 mL				
CCV 280-499726/99		353.2		100 mL	100 mL	5 mL			
CCVL 280-499726/100		353.2		100 mL	100 mL	1 mL			
CCB 280-499726/101		353.2		100 mL	100 mL				
LCS 280-499726/103		353.2		100 mL	100 mL	5 mL			
MB 280-499726/104		353.2		100 mL	100 mL				
280-137736-C-3	G0091-20A	353.2	T	100 mL	100 mL				
280-137736-C-4	G0123-20A	353.2	T	100 mL	100 mL				
CCV 280-499726/115		353.2		100 mL	100 mL	5 mL			
CCVL 280-499726/116		353.2		100 mL	100 mL	1 mL			
CCB 280-499726/117		353.2		100 mL	100 mL				
280-137736-C-5	G0122-20A	353.2	T	100 mL	100 mL				
280-137736-C-6	G0096-20A	353.2	T	100 mL	100 mL				
280-137736-C-7	G0296-20A	353.2	T	100 mL	100 mL				
280-137736-C-8	G0092-20A	353.2	T	100 mL	100 mL				
280-137736-C-9	PZ019-20A	353.2	T	100 mL	100 mL				
280-137736-C-9 MS	PZ019-20A	353.2	T	5 mL	5 mL	0.2 mL			
280-137736-C-9 MSD	PZ019-20A	353.2	T	5 mL	5 mL	0.2 mL			
280-137736-C-10	PZ020-20A	353.2	T	100 mL	100 mL				
280-137736-C-11	G0087-20A	353.2	T	100 mL	100 mL				
280-137736-C-12	G0088-20A	353.2	T	100 mL	100 mL				
CCV 280-499726/131		353.2		100 mL	100 mL	5 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499726 Batch Start Date: 06/22/20 16:32 Batch Analyst: Cherry, Scott V

Batch Method: 353.2 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	NXN CAL INT 00535	NXN ICV INT 00516		
CCVL 280-499726/132		353.2		100 mL	100 mL	1 mL			
CCB 280-499726/133		353.2		100 mL	100 mL				
280-137736-C-13	G0089-20A	353.2	T	100 mL	100 mL				
280-137736-C-14	G0077-20A	353.2	T	100 mL	100 mL				
280-137736-C-15	G0078-20A	353.2	T	100 mL	100 mL				
280-137736-C-16	G0093-20A	353.2	T	100 mL	100 mL				
280-137736-C-17	G0086-20A	353.2	T	100 mL	100 mL				
CCV 280-499726/146		353.2		100 mL	100 mL	5 mL			
CCVL 280-499726/147		353.2		100 mL	100 mL	1 mL			
CCB 280-499726/148		353.2		100 mL	100 mL				

Batch Notes	
Buffer Reagent ID	NOXT Buffer_00210
Color Reagent ID	NOXT CR_00108
Copper Sulfate ID	CuSO4 NOXT_0008
Hydrochloric Acid ID	0.5N HCl_0076
pH Indicator ID	hc989495
Pipette/Syringe/Dispenser ID	5000ad, 1000ad

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499423 Batch Start Date: 06/19/20 12:52 Batch Analyst: Hohulin, Sierra A

Batch Method: 9030B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	DistillUnitPort	Initial pH	Final pH	AcidVolAdded
LCS 280-499423/1		9030B, 9034		50 mL	50 mL	1	>9 SU	<2 SU	5 mL
MB 280-499423/2		9030B, 9034		50 mL	50 mL	2	>9 SU	<2 SU	5 mL
280-137736-E-14	G0077-20A	9030B, 9034	T	50 mL	50 mL	16	>9 SU	<2 SU	5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	SFD CAL INT 01770					
LCS 280-499423/1		9030B, 9034		1 mL					
MB 280-499423/2		9030B, 9034							
280-137736-E-14	G0077-20A	9030B, 9034	T						

Batch Notes	
Batch Comment	AD trained by SAH
Distillation End Time	02/17/2020 19:09
Distillation Start Time	02/17/2020 18:03
Formaldehyde ID	Form_00117
pH Indicator ID	HC989495 & HC 606169
Pipette/Syringe/Dispenser ID	AB8A1000 & 5000IX
Sulfuric Acid Reagent ID Number	H2SO4_00203
Zinc Acetate Buffer ID	Znac_00115

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499425 Batch Start Date: 06/19/20 12:54 Batch Analyst: Hunter, Brandon W

Batch Method: 9034 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	BuretStart1	BuretStop1	IodineAmount	TitrantVolume1	FinalAmount	
LCS 280-499423/1-A		9034		0.0 mL	2.9 mL	5 mL	2.9 mL	50 mL	
MB 280-499423/2-A		9034		2.9 mL	3.9 mL	1 mL	1 mL	50 mL	
280-137736-E-14-A	G0077-20A	9034	T	21.8 mL	22.7 mL	1 mL	0.899999999999999 mL	50 mL	

Batch Notes	
Batch Comment	BWH/SAH
Hydrochloric Acid ID	HCL Sol_00181
Iodine ID	Iod_00257
Normality of Iodine Solution	0.0250 N
Sodium Thiosulfate ID	Na Thio_00166
Pipette/Syringe/Dispenser ID	5000 CONDOR & 1000 INTERCESSOR
Starch Reagent ID	Starch Ind_00062
Normality of First Titrant	0.0250 N

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499428 Batch Start Date: 06/19/20 12:59 Batch Analyst: Hohulin, Sierra A

Batch Method: 9030B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	DistillUnitPort	Initial pH	Final pH	AcidVolAdded
LCS 280-499428/1		9030B, 9034		50 mL	50 mL	1	>9 SU	<2 SU	5 mL
MB 280-499428/2		9030B, 9034		50 mL	50 mL	2	>9 SU	<2 SU	5 mL
280-137736-E-15	G0078-20A	9030B, 9034	T	50 mL	50 mL	6	>9 SU	<2 SU	5 mL
280-137736-E-10	PZ020-20A	9030B, 9034	T	50 mL	50 mL	8	>9 SU	<2 SU	5 mL
280-137736-E-11	G0087-20A	9030B, 9034	T	50 mL	50 mL	9	>9 SU	<2 SU	5 mL
280-137736-E-12	G0088-20A	9030B, 9034	T	50 mL	50 mL	10	>9 SU	<2 SU	5 mL
280-137736-E-13	G0089-20A	9030B, 9034	T	50 mL	50 mL	11	>9 SU	<2 SU	5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	SFD CAL INT 01770					
LCS 280-499428/1		9030B, 9034		1 mL					
MB 280-499428/2		9030B, 9034							
280-137736-E-15	G0078-20A	9030B, 9034	T						
280-137736-E-10	PZ020-20A	9030B, 9034	T						
280-137736-E-11	G0087-20A	9030B, 9034	T						
280-137736-E-12	G0088-20A	9030B, 9034	T						
280-137736-E-13	G0089-20A	9030B, 9034	T						

Batch Notes	
Batch Comment	AD trained by SAH
Distillation End Time	02/17/2020 19:09
Distillation Start Time	02/17/2020 18:03
Formaldehyde ID	Form_00117
pH Indicator ID	HC989495 & HC 606169
Pipette/Syringe/Dispenser ID	AB8A1000 & 5000IX
Sulfuric Acid Reagent ID Number	H2SO4_00203
Zinc Acetate Buffer ID	Znac_00115

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499428 Batch Start Date: 06/19/20 12:59 Batch Analyst: Hohulin, Sierra A

Batch Method: 9030B Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499485 Batch Start Date: 06/19/20 17:04 Batch Analyst: Hunter, Brandon W

Batch Method: 9034 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	BuretStart1	BuretStop1	IodineAmount	TitrantVolume1	FinalAmount	
LCS 280-499428/1-A		9034		0.1 mL	2.9 mL	5 mL	2.8 mL	50 mL	
MB 280-499428/2-A		9034		2.9 mL	3.9 mL	1 mL	1 mL	50 mL	
280-137736-E-15-A	G0078-20A	9034	T	11.6 mL	12.6 mL	1 mL	1 mL	50 mL	
280-137736-E-10-A	PZ020-20A	9034	T	13.5 mL	14.5 mL	1 mL	1 mL	50 mL	
280-137736-E-11-A	G0087-20A	9034	T	14.5 mL	15.5 mL	1 mL	1 mL	50 mL	
280-137736-E-12-A	G0088-20A	9034	T	15.5 mL	16.4 mL	1 mL	0.899999999999999 mL	50 mL	
280-137736-E-13-A	G0089-20A	9034	T	16.4 mL	17.3 mL	1 mL	0.900000000000002 mL	50 mL	

Batch Notes	
Batch Comment	BWH trained by SAH
Hydrochloric Acid ID	HclSol_00181
Iodine ID	Iod_00257
Normality of Iodine Solution	0.0250 N
Sodium Thiosulfate ID	Na Thio_00166
Pipette/Syringe/Dispenser ID	AB8A1000 & 5000IX
Starch Reagent ID	Starchind_00062
Normality of First Titrant	0.0250 N

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499634 Batch Start Date: 06/22/20 10:42 Batch Analyst: Hohulin, Sierra A

Batch Method: 9030B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	DistillUnitPort	Initial pH	Final pH	AcidVolAdded
LCS 280-499634/1		9030B, 9034		50 mL	50 mL	1	>9 SU	<2 SU	5 mL
MB 280-499634/2		9030B, 9034		50 mL	50 mL	2	>9 SU	<2 SU	5 mL
280-137736-E-9	PZ019-20A	9030B, 9034	T	50 mL	50 mL	3	>9 SU	<2 SU	5 mL
280-137736-E-9 MS	PZ019-20A	9030B, 9034	T	50 mL	50 mL	4	>9 SU	<2 SU	5 mL
280-137736-E-9 MSD	PZ019-20A	9030B, 9034	T	50 mL	50 mL	5	>9 SU	<2 SU	5 mL
280-137736-E-16	G0093-20A	9030B, 9034	T	50 mL	50 mL	6	>9 SU	<2 SU	5 mL
280-137736-E-17	G0086-20A	9030B, 9034	T	50 mL	50 mL	7	>9 SU	<2 SU	5 mL
280-137736-E-8	G0092-20A	9030B, 9034	T	50 mL	50 mL	8	>9 SU	<2 SU	5 mL
280-137736-E-3	G0091-20A	9030B, 9034	T	50 mL	50 mL	9	>9 SU	<2 SU	5 mL
280-137736-E-4	G0123-20A	9030B, 9034	T	50 mL	50 mL	10	>9 SU	<2 SU	5 mL
280-137736-E-5	G0122-20A	9030B, 9034	T	50 mL	50 mL	11	>9 SU	<2 SU	5 mL
280-137736-E-6	G0096-20A	9030B, 9034	T	50 mL	50 mL	12	>9 SU	<2 SU	5 mL
280-137736-F-7	G0296-20A	9030B, 9034	T	50 mL	50 mL	18	7 SU	<2 SU	5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	SFD CAL INT 01771	AnalysisComment				
LCS 280-499634/1		9030B, 9034		1 mL					
MB 280-499634/2		9030B, 9034							
280-137736-E-9	PZ019-20A	9030B, 9034	T						
280-137736-E-9 MS	PZ019-20A	9030B, 9034	T	1 mL					
280-137736-E-9 MSD	PZ019-20A	9030B, 9034	T	1 mL					
280-137736-E-16	G0093-20A	9030B, 9034	T						
280-137736-E-17	G0086-20A	9030B, 9034	T						
280-137736-E-8	G0092-20A	9030B, 9034	T						
280-137736-E-3	G0091-20A	9030B, 9034	T						
280-137736-E-4	G0123-20A	9030B, 9034	T						
280-137736-E-5	G0122-20A	9030B, 9034	T						
280-137736-E-6	G0096-20A	9030B, 9034	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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499634 Batch Start Date: 06/22/20 10:42 Batch Analyst: Hohulin, Sierra A

Batch Method: 9030B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	SFD CAL INT 01771	AnalysisComment				
280-137736-F-7	G0296-20A	9030B, 9034	T		Sample unpreserved. Added preservative at benchtop prior to analysis.				

Batch Notes	
Batch Comment	AD trained by SAH
Distillation End Time	02/17/2020 19:09
Distillation Start Time	02/17/2020 18:03
Formaldehyde ID	Form_00117
pH Indicator ID	HC989495 & HC 606169
Pipette/Syringe/Dispenser ID	AB8A1000 & 5000IX
Sulfuric Acid Reagent ID Number	H2SO4_00203
Zinc Acetate Buffer ID	Znac_00116

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499653 Batch Start Date: 06/22/20 12:08 Batch Analyst: Hohulin, Sierra A

Batch Method: 9034 Batch End Date: 06/22/20 13:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	BuretStart1	BuretStop1	IodineAmount	TitrantVolume1	FinalAmount	AnalysisComment
LCS 280-499634/1-A		9034		0 mL	2.5 mL	5 mL	2.5 mL	50 mL	
MB 280-499634/2-A		9034		2.5 mL	3.4 mL	1 mL	0.9 mL	50 mL	
280-137736-E-9-A	PZ019-20A	9034	T	3.4 mL	4.4 mL	1 mL	1 mL	50 mL	
280-137736-E-9-D MS	PZ019-20A	9034	T	4.4 mL	7.1 mL	5 mL	2.7 mL	50 mL	
280-137736-E-9-E MSD	PZ019-20A	9034	T	7.1 mL	10.1 mL	5 mL	3 mL	50 mL	
280-137736-E-16-A	G0093-20A	9034	T	10.1 mL	11.1 mL	1 mL	1 mL	50 mL	
280-137736-E-17-A	G0086-20A	9034	T	11.1 mL	12.2 mL	1 mL	1.1 mL	50 mL	
280-137736-E-8-A	G0092-20A	9034	T	12.2 mL	13.1 mL	1 mL	0.9 mL	50 mL	
280-137736-E-3-A	G0091-20A	9034	T	13.1 mL	14.1 mL	1 mL	1 mL	50 mL	
280-137736-E-4-A	G0123-20A	9034	T	14.1 mL	15.1 mL	1 mL	1 mL	50 mL	
280-137736-E-5-A	G0122-20A	9034	T	15.1 mL	16.0 mL	1 mL	0.9 mL	50 mL	
280-137736-E-6-A	G0096-20A	9034	T	16.0 mL	17.0 mL	1 mL	1 mL	50 mL	
280-137736-F-7-A	G0296-20A	9034	T	21.8 mL	22.7 mL	1 mL	0.899999999999999 mL	50 mL	Sample unpreserved. Added preservative at benchtop prior to analysis.

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499653 Batch Start Date: 06/22/20 12:08 Batch Analyst: Hohulin, Sierra A

Batch Method: 9034 Batch End Date: 06/22/20 13:10

Batch Notes	
Batch Comment	SAH
Hydrochloric Acid ID	HCL Sol_00181
Iodine ID	Iod_00257
Normality of Iodine Solution	0.0250 N
Sodium Thiosulfate ID	Na Thio_00167
Pipette/Syringe/Dispenser ID	5000 CONDOR & 1000 INTERCESSOR
Starch Reagent ID	Starch Ind_00062
Normality of First Titrant	0.0250 N

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 497981 Batch Start Date: 06/09/20 10:46 Batch Analyst: Pedrick, Joshua A

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC CAL cl/so4 00314	IC Cal low 00528	IC CL ICV 00018	IC ICV 5 00273
STD 280-497981/2 IC		9056A		5 mL	5 mL	0.02 mL	0.02 mL		
STD 280-497981/3 IC		9056A		5 mL	5 mL	0.05 mL	0.05 mL		
STD 280-497981/4 IC		9056A		5 mL	5 mL	0.1 mL	0.1 mL		
STD 280-497981/5 IC		9056A		5 mL	5 mL	1.2 mL	0.4 mL		
STD 280-497981/6 IC		9056A		5 mL	5 mL	2.4 mL	0.8 mL		
STD 280-497981/7 IC		9056A		5 mL	5 mL	4 mL	1 mL		
ICV 280-497981/8		9056A		5 mL	5 mL			0.4 mL	0.4 mL
ICB 280-497981/9		9056A		5 mL	5 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	IC SO4 ICV 00021					
STD 280-497981/2 IC		9056A							
STD 280-497981/3 IC		9056A							
STD 280-497981/4 IC		9056A							
STD 280-497981/5 IC		9056A							
STD 280-497981/6 IC		9056A							
STD 280-497981/7 IC		9056A							
ICV 280-497981/8		9056A		0.4 mL					
ICB 280-497981/9		9056A							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 497981 Batch Start Date: 06/09/20 10:46 Batch Analyst: Pedrick, Joshua A

Batch Method: 9056A Batch End Date:

Batch Notes	
Eluent 1 ID	ic11 eluent_00631
Filter ID	R7MA61819
Pipette/Syringe/Dispenser ID	ic100, wc-1000, 5000ics
Sufficient Volume for Batch QC	Yes

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 500630 Batch Start Date: 06/30/20 10:18 Batch Analyst: Pedrick, Joshua A

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC CAL cl/so4 00317	IC Cal low 00531	IC LCS 01747	ICMS/MSD WEEK 00655
CCV 280-500630/1		9056A		5 mL	5 mL			5 mL	
CCB 280-500630/2		9056A		5 mL	5 mL				
MRL 280-500630/3		9056A		5 mL	5 mL	0.1 mL	0.05 mL		
LCS 280-500630/4		9056A		5 mL	5 mL			5 mL	
LCSD 280-500630/5		9056A		5 mL	5 mL			5 mL	
MB 280-500630/6		9056A		5 mL	5 mL				
CCV 280-500630/17		9056A		5 mL	5 mL			5 mL	
CCB 280-500630/18		9056A		5 mL	5 mL				
CCV 280-500630/35		9056A		5 mL	5 mL			5 mL	
CCB 280-500630/36		9056A		5 mL	5 mL				
280-137736-F-3	G0091-20A	9056A	T	5 mL	5 mL				
280-137736-F-4	G0123-20A	9056A	T	5 mL	5 mL				
280-137736-F-4 DU	G0123-20A	9056A	T	5 mL	5 mL				
280-137736-F-4 MS	G0123-20A	9056A	T	5 mL	5 mL				0.05 mL
280-137736-F-4 MSD	G0123-20A	9056A	T	5 mL	5 mL				0.05 mL
CCV 280-500630/47		9056A		5 mL	5 mL			5 mL	
CCB 280-500630/48		9056A		5 mL	5 mL				
280-137736-F-5	G0122-20A	9056A	T	5 mL	5 mL				
280-137736-F-7	G0296-20A	9056A	T	5 mL	5 mL				
280-137736-F-8	G0092-20A	9056A	T	5 mL	5 mL				
280-137736-F-9	PZ019-20A	9056A	T	5 mL	5 mL				
280-137736-F-9 DU	PZ019-20A	9056A	T	5 mL	5 mL				
280-137736-F-9 MS	PZ019-20A	9056A	T	5 mL	5 mL				0.05 mL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 500630 Batch Start Date: 06/30/20 10:18 Batch Analyst: Pedrick, Joshua A

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC CAL cl/so4 00317	IC Cal low 00531	IC LCS 01747	ICMS/MSD WEEK 00655
280-137736-F-9 MSD	PZ019-20A	9056A	T	5 mL	5 mL				0.05 mL
280-137736-F-10	PZ020-20A	9056A	T	5 mL	5 mL				
280-137736-F-11	G0087-20A	9056A	T	5 mL	5 mL				
280-137736-F-12	G0088-20A	9056A	T	5 mL	5 mL				
CCV 280-500630/59		9056A		5 mL	5 mL			5 mL	
CCB 280-500630/60		9056A		5 mL	5 mL				
280-137736-F-13	G0089-20A	9056A	T	5 mL	5 mL				
280-137736-F-14	G0077-20A	9056A	T	5 mL	5 mL				
280-137736-F-15	G0078-20A	9056A	T	5 mL	5 mL				
280-137736-F-16	G0093-20A	9056A	T	5 mL	5 mL				
280-137736-F-17	G0086-20A	9056A	T	5 mL	5 mL				
CCV 280-500630/66		9056A		5 mL	5 mL			5 mL	
CCB 280-500630/67		9056A		5 mL	5 mL				

Batch Notes	
Eluent 1 ID	ic11 eluent_00634
Filter ID	R7MA61819
Pipette/Syringe/Dispenser ID	ic100, wc-1000d, 5000ics
Sufficient Volume for Batch QC	Yes

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 500783 Batch Start Date: 07/01/20 09:47 Batch Analyst: Pedrick, Joshua A

Batch Method: 9056A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC CAL cl/so4 00317	IC Cal low 00531	IC LCS 01747	
CCV 280-500783/1		9056A		5 mL	5 mL			5 mL	
CCB 280-500783/2		9056A		5 mL	5 mL				
MRL 280-500783/3		9056A		5 mL	5 mL	0.1 mL	0.05 mL		
LCS 280-500783/4		9056A		5 mL	5 mL			5 mL	
LCSD 280-500783/5		9056A		5 mL	5 mL			5 mL	
MB 280-500783/6		9056A		5 mL	5 mL				
280-137736-D-6	G0096-20A	9056A	T	5 mL	5 mL				
280-137736-D-6	G0096-20A	9056A	T	5 mL	5 mL				
280-137736-F-12	G0088-20A	9056A	T	5 mL	5 mL				
280-137736-F-15	G0078-20A	9056A	T	5 mL	5 mL				
CCV 280-500783/17		9056A		5 mL	5 mL			5 mL	
CCB 280-500783/18		9056A		5 mL	5 mL				
CCV 280-500783/29		9056A		5 mL	5 mL			5 mL	
CCB 280-500783/30		9056A		5 mL	5 mL				
CCV 280-500783/41		9056A		5 mL	5 mL			5 mL	
CCB 280-500783/42		9056A		5 mL	5 mL				

Batch Notes	
Eluent 1 ID	ic11 eluent_00634
Filter ID	R7MA61819
Pipette/Syringe/Dispenser ID	ic100, wc-1000d, 5000ics
Sufficient Volume for Batch QC	Yes

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 501126 Batch Start Date: 07/02/20 17:28 Batch Analyst: Battillo, Jenna M

Batch Method: 9060A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	TOC ICV Std 00043	TOC LCS Std 00048	
ICV 280-501126/1		9060A		50 mL	50 mL	<2 SU	1 mL		
ICB 280-501126/2		9060A		20 mL	20 mL	<2 SU			
CCV 280-501126/28		9060A		200 mL	200 mL	<2 SU		5 mL	
CCB 280-501126/29		9060A		20 mL	20 mL	<2 SU			
LCS 280-500659/25-A		9060A		200 mL	200 mL	<2 SU		5 mL	
LCSD 280-500659/26-A		9060A		200 mL	200 mL	<2 SU		5 mL	
MB 280-500659/27-A		9060A		20 mL	20 mL	<2 SU			
CCV 280-501126/40		9060A		200 mL	200 mL	<2 SU		5 mL	
CCB 280-501126/41		9060A		20 mL	20 mL	<2 SU			
CCV 280-501126/52		9060A		200 mL	200 mL	<2 SU		5 mL	
CCB 280-501126/53		9060A		20 mL	20 mL	<2 SU			
280-137736-D-15-A	G0078-20A	9060A	D	20 mL	20 mL	7 SU			
280-137736-D-16-A	G0093-20A	9060A	D	20 mL	20 mL	7 SU			
280-137736-D-17-A	G0086-20A	9060A	D	20 mL	20 mL	7 SU			
CCV 280-501126/62		9060A		200 mL	200 mL	<2 SU		5 mL	
CCB 280-501126/63		9060A		20 mL	20 mL	<2 SU			

Batch Notes	
Acid ID	H2SO4_00208, 0.2% H2SO4_00350
Combustion Catylyst ID	19003D-03
Pipette/Syringe/Dispenser ID	BMF 5000

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 501126 Batch Start Date: 07/02/20 17:28 Batch Analyst: Battillo, Jenna M

Batch Method: 9060A Batch End Date:

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 501318 Batch Start Date: 07/06/20 17:54 Batch Analyst: Battillo, Jenna M

Batch Method: 9060A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	TOC ICV Std 00044	TOC LCS Std 00050	
ICV 280-501318/1		9060A		50 mL	50 mL	<2 SU	1 mL		
ICB 280-501318/2		9060A		20 mL	20 mL	<2 SU			
LCS 280-501228/1-A		9060A		200 mL	200 mL	<2 SU		5 mL	
LCSD 280-501228/2-A		9060A		200 mL	200 mL	<2 SU		5 mL	
MB 280-501228/3-A		9060A		20 mL	20 mL	<2 SU			
CCV 280-501318/15		9060A		200 mL	200 mL	<2 SU		5 mL	
CCB 280-501318/16		9060A		20 mL	20 mL	<2 SU			
280-137736-D-3-B	G0091-20A	9060A	D	20 mL	20 mL	7 SU			
280-137736-D-4-B	G0123-20A	9060A	D	20 mL	20 mL	7 SU			
280-137736-D-5-B	G0122-20A	9060A	D	20 mL	20 mL	7 SU			
280-137736-D-6-B	G0096-20A	9060A	D	20 mL	20 mL	7 SU			
CCV 280-501318/27		9060A		200 mL	200 mL	<2 SU		5 mL	
CCB 280-501318/28		9060A		20 mL	20 mL	<2 SU			
280-137736-D-7-B	G0296-20A	9060A	D	20 mL	20 mL	7 SU			
280-137736-D-8-B	G0092-20A	9060A	D	20 mL	20 mL	7 SU			
280-137736-D-9-E	PZ019-20A	9060A	D	20 mL	20 mL	7 SU			
280-137736-D-9-F MS	PZ019-20A	9060A	D	50 mL	50 mL	7 SU		1.25 mL	
280-137736-D-9-G MSD	PZ019-20A	9060A	D	50 mL	50 mL	7 SU		1.25 mL	
280-137736-D-10-B	PZ020-20A	9060A	D	20 mL	20 mL	7 SU			
280-137736-D-11-B	G0087-20A	9060A	D	20 mL	20 mL	7 SU			
280-137736-D-12-B	G0088-20A	9060A	D	20 mL	20 mL	7 SU			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 501318 Batch Start Date: 07/06/20 17:54 Batch Analyst: Battillo, Jenna M

Batch Method: 9060A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	TOC ICV Std 00044	TOC LCS Std 00050	
280-137736-D-13-D	G0089-20A	9060A	D	20 mL	20 mL	7 SU			
280-137736-D-14-B	G0077-20A	9060A	D	20 mL	20 mL	7 SU			
CCV 280-501318/39		9060A		200 mL	200 mL	<2 SU		5 mL	
CCB 280-501318/40		9060A		20 mL	20 mL	<2 SU			

Batch Notes	
Acid ID	H2SO4_00208, 0.2% H2SO4_00350
Pipette/Syringe/Dispenser ID	BMF 5000

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499387 Batch Start Date: 06/18/20 12:10 Batch Analyst: Fox, Regan A

Batch Method: SM 2320B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	Alk daily lcs 00907				
CCV 280-499387/56		SM 2320B		InitialAmount is blank	10 mL				
CCB 280-499387/57		SM 2320B		InitialAmount is blank					
LCS 280-499387/58		SM 2320B		InitialAmount is blank	10 mL				
LCSD 280-499387/59		SM 2320B		InitialAmount is blank	10 mL				
MB 280-499387/60		SM 2320B		InitialAmount is blank					
280-137736-F-3	G0091-20A	SM 2320B	T	InitialAmount is blank					
280-137736-F-4	G0123-20A	SM 2320B	T	InitialAmount is blank					
280-137736-F-5	G0122-20A	SM 2320B	T	InitialAmount is blank					
280-137736-F-7	G0296-20A	SM 2320B	T	InitialAmount is blank					
280-137736-F-8	G0092-20A	SM 2320B	T	InitialAmount is blank					
280-137736-F-9	PZ019-20A	SM 2320B	T	InitialAmount is blank					
280-137736-F-10	PZ020-20A	SM 2320B	T	InitialAmount is blank					
280-137736-F-11	G0087-20A	SM 2320B	T	InitialAmount is blank					
CCV 280-499387/71		SM 2320B		InitialAmount is blank	10 mL				
CCB 280-499387/72		SM 2320B		InitialAmount is blank					
280-137736-F-12	G0088-20A	SM 2320B	T	InitialAmount is blank					
280-137736-F-13	G0089-20A	SM 2320B	T	InitialAmount is blank					
280-137736-F-14	G0077-20A	SM 2320B	T	InitialAmount is blank					
280-137736-F-15	G0078-20A	SM 2320B	T	InitialAmount is blank					
280-137736-F-16	G0093-20A	SM 2320B	T	InitialAmount is blank					
280-137736-F-17	G0086-20A	SM 2320B	T	InitialAmount is blank					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499387 Batch Start Date: 06/18/20 12:10 Batch Analyst: Fox, Regan A

Batch Method: SM 2320B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	Alk daily lcs 00907				
CCV 280-499387/79		SM 2320B		InitialAmount is blank	10 mL				
CCB 280-499387/80		SM 2320B		InitialAmount is blank					

Batch Notes	
Acid ID	0.02 H2SO4 00273
Batch Comment	SG training RF
pH Buffer 1 ID	pH 2.0 Buffer 00085
pH Buffer 2 ID	pH 4.0 Buffer 00188
pH Buffer 3 ID	pH 7.0 Buffer 00280
pH Buffer 4 ID	pH 10 Buffer 00150
pH Buffer 5 ID	pH 12 Buffer 00163
pH Buffer 6 ID	pH 7.0 Buffer 00281
Sodium Carbonate ID	Alk Stk Std 00017
Nominal Amount Used	10 mL
Pipette/Syringe/Dispenser ID	5000SM
Probe ID	PCE 80 pH 1200C 45506
Normality of First Titrant	0.02 N N

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-137736-1

SDG No.:

Batch Number: 499605 Batch Start Date: 06/19/20 13:20 Batch Analyst: Fox, Regan A

Batch Method: SM 2320B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	Alk daily lcs 00907				
LCS 280-499605/4		SM 2320B		InitialAmount is blank	10 mL				
MB 280-499605/5		SM 2320B		InitialAmount is blank					
280-137736-D-6	G0096-20A	SM 2320B	T	InitialAmount is blank					
CCV 280-499605/16		SM 2320B		InitialAmount is blank	10 mL				
CCB 280-499605/17		SM 2320B		InitialAmount is blank					

Batch Notes	
Acid ID	0.02 H2SO4 00273
Batch Comment	SG training RF
pH Buffer 1 ID	pH 2.0 Buffer 00085
pH Buffer 2 ID	pH 4.0 Buffer 00188
pH Buffer 3 ID	pH 7.0 Buffer 00280
pH Buffer 4 ID	pH 10 Buffer 00150
pH Buffer 5 ID	pH 12 Buffer 00163
pH Buffer 6 ID	pH 7.0 Buffer 00281
Sodium Carbonate ID	Alk Stk Std 00017
Nominal Amount Used	10 mL
Pipette/Syringe/Dispenser ID	5000SM
Probe ID	PCE 80 pH 1200C 45506
Normality of First Titrant	0.02 N

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.

*** Sample Table from Analysis ***

File name: *** Sample Table from Analysis ***
Date: 24-Jun-20

BWM

350.1 color_00204
350.1 bleach_01261
350.1 complex_00484

Cup	Name	Type	R	Dil	Wt	Vial	Comment	pH	Cl⁻
106	Sync	SYNC	1	1	1				
0	Carry Over	CO	1	1	1				
0	Blank	RB	1	1	1				
101	Cal 0 ppb	C	1	1	1				
102	Cal 25 ppb	C	1	1	1				
103	Cal 50 ppb	C	1	1	1				
104	Cal 100 ppb	C	1	1	1				
105	Cal 500 ppb	C	1	1	1				
106	Cal 1000 ppb	C	1	1	1				
107	Cal 2500 ppb	C	1	1	1				
108	Cal 5000 ppb	C	1	1	1				
0	Blank	BLNK	1	1	1				
0	Read Baseline	RB	1	1	1				
109	ICVL 500.0 ppb	U	1	1	1				
110	ICV 2500.0 ppb	U	1	1	1				
111	ICB	U	1	1	1				
0	read baseline	RB	1	1	1				
107	LCS	U	1	1	1				
111	MB	U	1	1	1				
201	280-137731-b-4	U	1	1	1			L2	n
202	MS 280-137731-b-4	U	1	1	1			L2	n
203	MSD 280-137731-b-4	U	1	1	1			L2	n
204	280-137731-b-1	U	1	2	1			L2	n
205	280-137731-b-3	U	1	1	1			L2	n
206	280-137732-a-1	U	1	1	1			L2	n
207	280-137732-a-2	U	1	1	1			L2	n
208	280-137736-c-3	U	1	1	1			L2	n
209	280-137736-c-4	U	1	1	1			L2	n
210	280-137736-c-5	U	1	1	1			L2	n
0	RINSE	U	1	1	1				
0	Read Baseline	RB	1	1	1				
105	CCVL 500.0 PPB	U	1	1	1				
107	CCV 2500.0 PPB	U	1	1	1				
111	CCB	U	1	1	1				
0	READ BASELINE	RB	1	1	1			L2	
211	280-137736-c-6	U	1	1	1			L2	n
212	280-137736-c-7	U	1	1	1			L2	n
213	280-137736-c-9	U	1	1	1			L2	n
214	MS 280-137736-c-9	U	1	1	1			L2	n
215	MSD 280-137736-c-9	U	1	1	1			L2	n
216	280-137736-c-8	U	1	1	1			L2	n
217	280-137736-c-10	U	1	1	1			L2	n
218	280-137736-c-11	U	1	1	1			L2	n
219	280-137736-c-12	U	1	1	1			L2	n
220	280-137736-c-13	U	1	1	1			L2	n
0	RINSE	U	1	1	1				
0	READ BASELINE	RB	1	1	1				
105	CCVL 500.0 PPB	U	1	1	1				
107	CCV 2500.0 PPB	U	1	1	1				
111	CCB	U	1	1	1				
0	READ BASELINE	RB	1	1	1			L2	n
221	280-137736-c-14	U	1	1	1			L2	n
222	280-137736-c-15	U	1	1	1			L2	n
223	280-137736-c-16	U	1	1	1			L2	n
224	280-137736-c-17	U	1	1	1			L2	n
107	LCS	U	1	1	1				

Cup	Name	Type	R	Dil	Wt	Vial	Comment	pH	Cl
111	MB	U	1	1	1				
225	580-95452-a-1 X	U	1	1	1			L2	n
226	MS 580-95452-a-1	U	1	1	1			L2	n
227	MSD 580-95452-a-1	U	1	1	1			L2	n
228	580-95452-a-2 X	U	1	1	1			L2	n
0	RINSE	U	1	1	1				
0	READ BASELINE	RB	1	1	1				
105	CCVL 500.0 PPB	U	1	1	1				
107	CCV 2500.0 PPB	U	1	1	1				
111	CCB	U	1	1	1				
0	READ BASELINE	RB	1	1	1			L2	
229	580-95452-a-3	U	1	1	1			L2	n
230	580-95452-a-4	U	1	1	1			L2	n
231	580-95452-a-5 X	U	1	1	1			L2	n
232	580-95452-a-6	U	1	1	1			L2	n
233	580-95452-a-7 X	U	1	1	1			L2	n
234	580-95452-a-8 X	U	1	1	1			L2	n
235	580-95452-a-9 X	U	1	1	1			L2	n
236	580-95452-a-10 X	U	1	1	1			L2	n
237	580-95452-a-11	U	1	1	1			L2	n
238	MS 580-95452-a-11	U	1	1	1				
0	RINSE	U	1	1	1				
0	READ BASELINE	RB	1	1	1				
105	CCVL 500.0 PPB	U	1	1	1				
107	CCV 2500.0 PPB	U	1	1	1				
111	CCB	U	1	1	1				
0	READ BASELINE	RB	1	1	1				
239	MSD 580-95452-a-11	U	1	1	1			L2	n
240	580-95452-a-12	U	1	1	1			L2	n
241	580-95452-a-13	U	1	1	1			L2	n
242	580-95452-a-14	U	1	1	1			L2	n
243	580-95452-a-15	U	1	1	1			L2	n
244	580-95452-a-16 X	U	1	1	1			L2	n
245	580-95452-a-17 X	U	1	1	1			L2	n
246	580-95452-a-18	U	1	1	1			L2	n
247	580-95452-a-19	U	1	1	1			L2	n
248	580-95452-a-20	U	1	1	1			L2	n
0	RINSE	U	1	1	1				
0	READ BASELINE	RB	1	1	1				
105	CCVL 500.0 PPB	U	1	1	1				
107	CCV 2500.0 PPB	U	1	1	1				
111	CCB	U	1	1	1				
0	READ BASELINE	RB	1	1	1				
107	LCS	U	1	1	1				
107	LCSD	U	1	1	1				
111	MB	U	1	1	1				
249	280-137847-a-14	U	1	1	1			L2	n
250	MS 280-137847-a-14	U	1	1	1			L2	n
251	MSD 280-137847-a-14	U	1	1	1			L2	n
252	580-95452-a-21	U	1	1	1			L2	n
253	580-95452-a-22	U	1	1	1			L2	n
254	580-95452-a-23	U	1	1	1			L2	n
255	580-95452-a-1	U	1	2	1			L2	n
256	MS 580-95452-a-1	U	1	2	1			L2	n
257	MSD 580-95452-a-1	U	1	2	1			L2	n
258	580-95452-a-7	U	1	100	1			L2	n
0	RINSE	U	1	1	1				
0	READ BASELINE	RB	1	1	1				
105	CCVL 500.0 PPB	U	1	1	1				
107	CCV 2500.0 PPB	U	1	1	1				

Cup	Name	Type	R	Dil	Wt	Vial	Comment	pH	Cl⁻
111	CCB	U	1	1	1				
0	READ BASELINE	RB	1	1	1				
259	580-95452-a-8	U	1	100	1				
300	580-95452-a-9 X	U	1	100	1				
301	580-95452-a-10	U	1	100	1				
302	580-95452-a-16	U	1	100	1				
303	580-95452-a-17	U	1	100	1				
0	RINSE	U	1	1	1				
0	READ BASELINE	RB	1	1	1				
105	CCVL 500.0 PPB	U	1	1	1				
107	CCV 2500.0 PPB	U	1	1	1				
111	CCB	U	1	1	1				
0	READ BASELINE	RB	1	1	1				

Run Results Report

Facility Name	
Facility Location	
Department	
Operator Name	BWH
Operator ID	BWH
Platform	FS III/IV/3100
Software Rev Code	240
Data system ID	57
Result path	C:\FLOW_4\062320.RST
Sample table path	C:\FLOW_4\062320.tbl
Method path	C:\FLOW_4\nh3.mth
Date acquired	23-Jun-20
Time acquired	15:39

Date	Time	Cup	Name
23-Jun-20	11:13	106	Sync
23-Jun-20	11:15	0	Carry Over
23-Jun-20	11:17	0	Blank
23-Jun-20	11:19	101	Cal 0 ppb
23-Jun-20	11:21	102	Cal 25 ppb
23-Jun-20	11:23	103	Cal 50 ppb
23-Jun-20	11:25	104	Cal 100 ppb
23-Jun-20	11:27	105	Cal 500 ppb
23-Jun-20	11:29	106	Cal 1000 ppb
23-Jun-20	11:31	107	Cal 2500 ppb
23-Jun-20	11:33	108	Cal 5000 ppb
23-Jun-20	11:35	0	Blank
23-Jun-20	11:37	0	Read Baseline
23-Jun-20	11:39	109	ICVL 500.0 ppb
23-Jun-20	11:41	110	ICV 2500.0 ppb
23-Jun-20	11:43	111	ICB
23-Jun-20	11:45	0	read baseline
23-Jun-20	11:47	107	LCS
23-Jun-20	11:49	111	MB
23-Jun-20	11:51	201	280-137731-b-4
23-Jun-20	11:53	202	MS 280-137731-b-4
23-Jun-20	11:55	203	MSD 280-137731-b-4
23-Jun-20	11:57	204	280-137731-b-1
23-Jun-20	11:59	205	280-137731-b-3
23-Jun-20	12:01	206	280-137732-a-1
23-Jun-20	12:03	207	280-137732-a-2
23-Jun-20	12:05	208	280-137736-c-3
23-Jun-20	12:07	209	280-137736-c-4
23-Jun-20	12:09	210	280-137736-c-5
23-Jun-20	12:11	0	RINSE
23-Jun-20	12:13	0	Read Baseline
23-Jun-20	12:15	105	CCVL 500.0 PPB
23-Jun-20	12:17	107	CCV 2500.0 PPB
23-Jun-20	12:19	111	CCB
23-Jun-20	12:21	0	READ BASELINE
23-Jun-20	12:23	211	280-137736-c-6
23-Jun-20	12:25	212	280-137736-c-7
23-Jun-20	12:27	213	280-137736-c-9
23-Jun-20	12:29	214	MS 280-137736-c-9
23-Jun-20	12:31	215	MSD 280-137736-c-9
23-Jun-20	12:33	216	280-137736-c-8
23-Jun-20	12:35	217	280-137736-c-10
23-Jun-20	12:37	218	280-137736-c-11
23-Jun-20	12:39	219	280-137736-c-12
23-Jun-20	12:41	220	280-137736-c-13

Result path	C:\FLOW_4\062320.RST
Sample table path	C:\FLOW_4\062320.tbl
Method path	C:\FLOW_4\nh3.mth
Date acquired	23-Jun-20
Time acquired	15:39

Date	Time	Cup	Name
23-Jun-20	12:43	0	RINSE
23-Jun-20	12:45	0	READ BASELINE
23-Jun-20	12:47	105	CCVL 500.0 PPB
23-Jun-20	12:49	107	CCV 2500.0 PPB
23-Jun-20	12:51	111	CCB
23-Jun-20	12:53	0	READ BASELINE
23-Jun-20	12:55	221	280-137736-c-14
23-Jun-20	12:57	222	280-137736-c-15
23-Jun-20	12:59	223	280-137736-c-16
23-Jun-20	13:01	224	280-137736-c-17
23-Jun-20	13:03	107	LCS
23-Jun-20	13:05	111	MB
23-Jun-20	13:07	225	580-95452-a-1 X
23-Jun-20	13:09	226	MS 580-95452-a-1
23-Jun-20	13:11	227	MSD 580-95452-a-1
23-Jun-20	13:13	228	580-95452-a-2 X
23-Jun-20	13:15	0	RINSE
23-Jun-20	13:17	0	READ BASELINE
23-Jun-20	13:19	105	CCVL 500.0 PPB
23-Jun-20	13:21	107	CCV 2500.0 PPB
23-Jun-20	13:23	111	CCB
23-Jun-20	13:25	0	READ BASELINE
23-Jun-20	13:27	229	580-95452-a-3
23-Jun-20	13:29	230	580-95452-a-4
23-Jun-20	13:31	231	580-95452-a-5 X
23-Jun-20	13:33	232	580-95452-a-6
23-Jun-20	13:35	233	580-95452-a-7 X
23-Jun-20	13:37	234	580-95452-a-8 X
23-Jun-20	13:39	235	580-95452-a-9 X
23-Jun-20	13:41	236	580-95452-a-10 X
23-Jun-20	13:43	237	580-95452-a-11
23-Jun-20	13:45	238	MS 580-95452-a-11
23-Jun-20	13:47	0	RINSE
23-Jun-20	13:49	0	READ BASELINE
23-Jun-20	13:51	105	CCVL 500.0 PPB
23-Jun-20	13:53	107	CCV 2500.0 PPB
23-Jun-20	13:55	111	CCB
23-Jun-20	13:57	0	READ BASELINE
23-Jun-20	13:59	239	MSD 580-95452-a-11
23-Jun-20	14:01	240	580-95452-a-12
23-Jun-20	14:03	241	580-95452-a-13
23-Jun-20	14:05	242	580-95452-a-14
23-Jun-20	14:07	243	580-95452-a-15
23-Jun-20	14:09	244	580-95452-a-16 X
23-Jun-20	14:11	245	580-95452-a-17 X
23-Jun-20	14:13	246	580-95452-a-18
23-Jun-20	14:15	247	580-95452-a-19
23-Jun-20	14:17	248	580-95452-a-20
23-Jun-20	14:19	0	RINSE
23-Jun-20	14:21	0	READ BASELINE
23-Jun-20	14:23	105	CCVL 500.0 PPB
23-Jun-20	14:25	107	CCV 2500.0 PPB
23-Jun-20	14:27	111	CCB
23-Jun-20	14:29	0	READ BASELINE
23-Jun-20	14:31	107	LCS
23-Jun-20	14:33	107	LCSD
23-Jun-20	14:35	111	MB

Result path	C:\FLOW_4\062320.RST
Sample table path	C:\FLOW_4\062320.tbl
Method path	C:\FLOW_4\nh3.mth
Date acquired	23-Jun-20
Time acquired	15:39

Date	Time	Cup	Name
23-Jun-20	14:37	249	280-137847-a-14
23-Jun-20	14:40	250	MS 280-137847-a-14
23-Jun-20	14:42	251	MSD 280-137847-a-14
23-Jun-20	14:44	252	580-95452-a-21
23-Jun-20	14:46	253	580-95452-a-22
23-Jun-20	14:48	254	580-95452-a-23
23-Jun-20	14:53	255	580-95452-a-1
23-Jun-20	14:55	256	MS 580-95452-a-1
23-Jun-20	14:57	257	MSD 580-95452-a-1
23-Jun-20	14:59	258	580-95452-a-7
23-Jun-20	15:01	0	RINSE
23-Jun-20	15:03	0	READ BASELINE
23-Jun-20	15:05	105	CCVL 500.0 PPB
23-Jun-20	15:07	107	CCV 2500.0 PPB
23-Jun-20	15:09	111	CCB
23-Jun-20	15:11	0	READ BASELINE
23-Jun-20	15:13	259	580-95452-a-8
23-Jun-20	15:15	300	580-95452-a-9 X
23-Jun-20	15:17	301	580-95452-a-10
23-Jun-20	15:19	302	580-95452-a-16
23-Jun-20	15:21	303	580-95452-a-17
23-Jun-20	15:23	0	RINSE
23-Jun-20	15:25	0	READ BASELINE
23-Jun-20	15:27	105	CCVL 500.0 PPB
23-Jun-20	15:29	107	CCV 2500.0 PPB
23-Jun-20	15:31	111	CCB
23-Jun-20	15:33	0	READ BASELINE

Run Results Report

Facility Name
Facility Location
Department
Operator Name BWH
Operator ID BWH
Platform FS III/IV/3100
Software Rev Code 240
Data system ID 57

Result path C:\FLOW_4\062320.RST
Sample table path C:\FLOW_4\062320.tbl
Method path C:\FLOW_4\nh3.mth
Date acquired 23-Jun-20
Time acquired 15:39

	NH3				
Name	Response	Calc [ppb]	Flags	Mean Response	Mean Calc [ppb]
Sync	13429	948.130			
Carry Over	53	15.986			
Blank	0	12.995	BL		
Cal 0 ppb	232	26.107			
Cal 25 ppb	554	44.458			
Cal 50 ppb	911	65.086			
Cal 100 ppb	1561	103.222			
Cal 500 ppb	6642	430.591			
Cal 1000 ppb	13573	960.091			
Cal 2500 ppb	29736	2566.708			
Cal 5000 ppb	47805	4978.728			
Blank	-196	2.013			
Read Baseline	0	12.995	BL		
ICVL 500.0 ppb	7552	494.716			
ICV 2500.0 ppb	28270	2399.478			
ICB	-102	7.247			
read baseline	0	12.995	BL		
LCS	29716	2564.339			
MB	-108	6.930			
280-137731-b-4	24135	1950.987			
MS 280-137731-b-4	33519	3017.850			
MSD 280-137731-b-4	33238	2983.288			
280-137731-b-1	28660	4887.026			
280-137731-b-3	152	21.556			
280-137732-a-1	38	15.130			
280-137732-a-2	42	15.352			
280-137736-c-3	49	15.770			
280-137736-c-4	3755	238.327			
280-137736-c-5	23859	1922.335			
RINSE	-49	10.234			
Read Baseline	0	12.995	BL		
CCVL 500.0 PPB	7679	503.743			
CCV 2500.0 PPB	29233	2508.795			
CCB	-79	8.556			
READ BASELINE	0	12.995	BL		
280-137736-c-6	2961	188.302			
280-137736-c-7	3010	191.359			
280-137736-c-9	58	16.257			
MS 280-137736-c-9	13439	948.995			
MSD 280-137736-c-9	13485	952.784			
280-137736-c-8	314	30.751			
280-137736-c-10	333	31.828			
280-137736-c-11	341	32.310			
280-137736-c-12	1299	87.745			
280-137736-c-13	2550	162.914			

Result path	C:\FLOW_4\062320.RST
Sample table path	C:\FLOW_4\062320.tbl
Method path	C:\FLOW_4\nh3.mth
Date acquired	23-Jun-20
Time acquired	15:39

	NH3				
Name	Response	Calc [ppb]	Flags	Mean Response	Mean Calc [ppb]
RINSE	10	13.580			
READ BASELINE	0	12.995	BL		
CCVL 500.0 PPB	7860	516.719			
CCV 2500.0 PPB	29789	2572.779			
CCB	-79	8.531			
READ BASELINE	0	12.995	BL		
280-137736-c-14	690	52.267			
280-137736-c-15	7100	462.636			
280-137736-c-16	16032	1170.997			
280-137736-c-17	213	25.045			
LCS	29855	2580.386			
MB	-71	9.003			
580-95452-a-1 X	50792	5440.073	HI		
MS 580-95452-a-1	56849	6430.187	HI		
MSD 580-95452-a-1	57371	6518.968	HI		
580-95452-a-2 X	117510	20377.273	HI		
RINSE	-260	-1.575	LO FL		
READ BASELINE	0	12.995	BL		
CCVL 500.0 PPB	7999	526.772			
CCV 2500.0 PPB	30953	2708.742			
CCB	-121	6.230			
READ BASELINE	0	12.995	BL		
580-95452-a-3	32408	2882.329			
580-95452-a-4	7691	504.604			
580-95452-a-5 X	151102	31254.232	HI		
580-95452-a-6	-301	-3.873	LO UM FL		
580-95452-a-7 X	163479	35828.555	HI		
580-95452-a-8 X	163434	35811.336	HI		
580-95452-a-9 X	144643	28988.463	HI		
580-95452-a-10 X	125129	22647.203	HI		
580-95452-a-11	4731	301.458	FL		
MS 580-95452-a-11	18757	1418.674	FL		
RINSE	-29	11.371			
READ BASELINE	0	12.995	BL		
CCVL 500.0 PPB	8177	539.639			
CCV 2500.0 PPB	30742	2683.846			
CCB	-93	7.773			
READ BASELINE	0	12.995	BL		
MSD 580-95452-a-11	18301	1376.178			
580-95452-a-12	39259	3756.830			
580-95452-a-13	5295	338.793			
580-95452-a-14	1959	127.020			
580-95452-a-15	2017	130.510			
580-95452-a-16 X	165031	36423.691	HI		
580-95452-a-17 X	122056	21717.812	HI		
580-95452-a-18	3510	222.732	FL		
580-95452-a-19	52	15.929	FL		
580-95452-a-20	44	15.451			
RINSE	20	14.122			
READ BASELINE	0	12.995	BL		
CCVL 500.0 PPB	8090	533.367			
CCV 2500.0 PPB	30552	2661.591			
CCB	-62	9.485			
READ BASELINE	0	12.995	BL		
LCS	30393	2642.943			
LCSD	30050	2603.015			
MB	-56	9.849			

Result path C:\FLOW_4\062320.RST
Sample table path C:\FLOW_4\062320.tbl
Method path C:\FLOW_4\nh3.mth
Date acquired 23-Jun-20
Time acquired 15:39

	NH3				
Name	Response	Calc [ppb]	Flags	Mean Response	Mean Calc [ppb]
280-137847-a-14	87	17.897			
MS 280-137847-a-14	13889	986.506			
MSD 280-137847-a-14	14154	1008.830			
580-95452-a-21	2072	133.839			
580-95452-a-22	86	17.847			
580-95452-a-23	48	15.726			
580-95452-a-1	32495	5785.865			
MS 580-95452-a-1	40363	7813.048			
MSD 580-95452-a-1	40462	7840.190			
580-95452-a-7	31634	278951.125			
RINSE	-112	6.732			
READ BASELINE	0	12.995	BL		
CCVL 500.0 PPB	8296	548.311			
CCV 2500.0 PPB	30754	2685.239			
CCB	-82	8.406			
READ BASELINE	0	12.995	BL		
580-95452-a-8	32078	284258.625			
580-95452-a-9 X	-124	602.861			
580-95452-a-10	4496	28606.369			
580-95452-a-16	27446	230741.891			
580-95452-a-17	4141	26306.727			
RINSE	-21	11.834			
READ BASELINE	0	12.995	BL		
CCVL 500.0 PPB	8200	541.313			
CCV 2500.0 PPB	30795	2690.083			
CCB	-47	10.333			
READ BASELINE	0	12.995	BL		

Peak Table:NH3

File name: C:\FLOW_4\062320.RST
Date: 23-Jun-20
Operator: BWH

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppb)	Flags
1	106	Sync	1	SYNC	1	1	13429	948.130310	
2	0	Carry Over	1	CO	1	1	53	15.986118	
B	0	Blank	1	RB	1	1	0	12.995391	BL
4	101	Cal 0 ppb	1	C	1	1	232	26.107304	
5	102	Cal 25 ppb	1	C	1	1	554	44.457939	
6	103	Cal 50 ppb	1	C	1	1	911	65.086288	
7	104	Cal 100 ppb	1	C	1	1	1561	103.222321	
8	105	Cal 500 ppb	1	C	1	1	6642	430.591034	
9	106	Cal 1000 ppb	1	C	1	1	13573	960.091370	
10	107	Cal 2500 ppb	1	C	1	1	29736	2566.707520	
11	108	Cal 5000 ppb	1	C	1	1	47805	4978.727539	
12	0	Blank	1	BLNK	1	1	-196	2.013433	
B	0	Read Baseline	1	RB	1	1	0	12.995391	BL
14	109	ICVL 500.0 ppb	1	U	1	1	7552	494.715942	
15	110	ICV 2500.0 ppb	1	U	1	1	28270	2399.477539	
16	111	ICB	1	U	1	1	-102	7.246608	
B	0	read baseline	1	RB	1	1	0	12.995391	BL
18	107	LCS	1	U	1	1	29716	2564.339111	
19	111	MB	1	U	1	1	-108	6.929583	
20	201	280-137731-b-4	1	U	1	1	24135	1950.987183	
21	202	MS 280-137731-b-4	1	U	1	1	33519	3017.849854	
22	203	MSD 280-137731-b-4	1	U	1	1	33238	2983.287842	
23	204	280-137731-b-1	1	U	2	1	28660	4887.026367	
24	205	280-137731-b-3	1	U	1	1	152	21.556057	
25	206	280-137732-a-1	1	U	1	1	38	15.129970	
26	207	280-137732-a-2	1	U	1	1	42	15.352101	
27	208	280-137736-c-3	1	U	1	1	49	15.770461	
28	209	280-137736-c-4	1	U	1	1	3755	238.327438	
29	210	280-137736-c-5	1	U	1	1	23859	1922.335449	
30	0	RINSE	1	U	1	1	-49	10.234486	
B	0	Read Baseline	1	RB	1	1	0	12.995391	BL
32	105	CCVL 500.0 PPB	1	U	1	1	7679	503.743408	
33	107	CCV 2500.0 PPB	1	U	1	1	29233	2508.794678	
34	111	CCB	1	U	1	1	-79	8.556258	
B	0	READ BASELINE	1	RB	1	1	0	12.995391	BL
36	211	280-137736-c-6	1	U	1	1	2961	188.301682	
37	212	280-137736-c-7	1	U	1	1	3010	191.359207	
38	213	280-137736-c-9	1	U	1	1	58	16.256622	
39	214	MS 280-137736-c-9	1	U	1	1	13439	948.994568	
40	215	MSD 280-137736-c-9	1	U	1	1	13485	952.784485	
41	216	280-137736-c-8	1	U	1	1	314	30.751038	
42	217	280-137736-c-10	1	U	1	1	333	31.828279	
43	218	280-137736-c-11	1	U	1	1	341	32.309742	
44	219	280-137736-c-12	1	U	1	1	1299	87.745178	
45	220	280-137736-c-13	1	U	1	1	2550	162.913727	
46	0	RINSE	1	U	1	1	10	13.580052	
B	0	READ BASELINE	1	RB	1	1	0	12.995391	BL
48	105	CCVL 500.0 PPB	1	U	1	1	7860	516.719421	
49	107	CCV 2500.0 PPB	1	U	1	1	29789	2572.778809	
50	111	CCB	1	U	1	1	-79	8.531387	
B	0	READ BASELINE	1	RB	1	1	0	12.995391	BL
52	221	280-137736-c-14	1	U	1	1	690	52.266865	
53	222	280-137736-c-15	1	U	1	1	7100	462.636230	
54	223	280-137736-c-16	1	U	1	1	16032	1170.997314	
55	224	280-137736-c-17	1	U	1	1	213	25.045149	
56	107	LCS	1	U	1	1	29855	2580.386475	
57	111	MB	1	U	1	1	-71	9.002912	
58	225	580-95452-a-1 X	1	U	1	1	50792	5440.072754	HI
59	226	MS 580-95452-a-1	1	U	1	1	56849	6430.186523	HI
60	227	MSD 580-95452-a-1	1	U	1	1	57371	6518.968262	HI
61	228	580-95452-a-2 X	1	U	1	1	117510	20377.273438	HI
62	0	RINSE	1	U	1	1	-260	-1.574583	LO FL
B	0	READ BASELINE	1	RB	1	1	0	12.995391	BL
64	105	CCVL 500.0 PPB	1	U	1	1	7999	526.772095	
65	107	CCV 2500.0 PPB	1	U	1	1	30953	2708.742188	
66	111	CCB	1	U	1	1	-121	6.229968	
B	0	READ BASELINE	1	RB	1	1	0	12.995391	BL
68	229	580-95452-a-3	1	U	1	1	32408	2882.329346	
69	230	580-95452-a-4	1	U	1	1	7691	504.604156	
70	231	580-95452-a-5 X	1	U	1	1	151102	31254.232422	HI

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppb)	Flags
71	232	580-95452-a-6	1	U	1	1	-301	-3.872749	LO UM FL
72	233	580-95452-a-7 X	1	U	1	1	163479	35828.554688	HI
73	234	580-95452-a-8 X	1	U	1	1	163434	35811.335938	HI
74	235	580-95452-a-9 X	1	U	1	1	144643	28988.462891	HI
75	236	580-95452-a-10 X	1	U	1	1	125129	22647.203125	HI
76	237	580-95452-a-11	1	U	1	1	4731	301.457825	FL
77	238	MS 580-95452-a-11	1	U	1	1	18757	1418.673706	FL
78	0	RINSE	1	U	1	1	-29	11.370544	
B	0	READ BASELINE	1	RB	1	1	0	12.995391	BL
80	105	CCVL 500.0 PPB	1	U	1	1	8177	539.639465	
81	107	CCV 2500.0 PPB	1	U	1	1	30742	2683.845947	
82	111	CCB	1	U	1	1	-93	7.773236	
B	0	READ BASELINE	1	RB	1	1	0	12.995391	BL
84	239	MSD 580-95452-a-11	1	U	1	1	18301	1376.177979	
85	240	580-95452-a-12	1	U	1	1	39259	3756.829834	
86	241	580-95452-a-13	1	U	1	1	5295	338.793060	
87	242	580-95452-a-14	1	U	1	1	1959	127.020042	
88	243	580-95452-a-15	1	U	1	1	2017	130.510254	
89	244	580-95452-a-16 X	1	U	1	1	165031	36423.691406	HI
90	245	580-95452-a-17 X	1	U	1	1	122056	21717.812500	HI
91	246	580-95452-a-18	1	U	1	1	3510	222.731766	FL
92	247	580-95452-a-19	1	U	1	1	52	15.929500	FL
93	248	580-95452-a-20	1	U	1	1	44	15.451179	
94	0	RINSE	1	U	1	1	20	14.121511	
B	0	READ BASELINE	1	RB	1	1	0	12.995391	BL
96	105	CCVL 500.0 PPB	1	U	1	1	8090	533.366516	
97	107	CCV 2500.0 PPB	1	U	1	1	30552	2661.591064	
98	111	CCB	1	U	1	1	-62	9.485462	
B	0	READ BASELINE	1	RB	1	1	0	12.995391	BL
100	107	LCS	1	U	1	1	30393	2642.942627	
101	107	LCSD	1	U	1	1	30050	2603.014893	
102	111	MB	1	U	1	1	-56	9.849178	
103	249	280-137847-a-14	1	U	1	1	87	17.897078	
104	250	MS 280-137847-a-14	1	U	1	1	13889	986.506348	
105	251	MSD 280-137847-a-14	1	U	1	1	14154	1008.829712	
106	252	580-95452-a-21	1	U	1	1	2072	133.838943	
107	253	580-95452-a-22	1	U	1	1	86	17.846998	
108	254	580-95452-a-23	1	U	1	1	48	15.725746	
109	255	580-95452-a-1	1	U	2	1	32495	5785.865234	
110	256	MS 580-95452-a-1	1	U	2	1	40363	7813.048340	
111	257	MSD 580-95452-a-1	1	U	2	1	40462	7840.189941	
112	258	580-95452-a-7	1	U	100	1	31634	278951.125000	
113	0	RINSE	1	U	1	1	-112	6.731788	
B	0	READ BASELINE	1	RB	1	1	0	12.995391	BL
115	105	CCVL 500.0 PPB	1	U	1	1	8296	548.310974	
116	107	CCV 2500.0 PPB	1	U	1	1	30754	2685.239014	
117	111	CCB	1	U	1	1	-82	8.405997	
B	0	READ BASELINE	1	RB	1	1	0	12.995391	BL
119	259	580-95452-a-8	1	U	100	1	32078	284258.625000	
120	300	580-95452-a-9 X	1	U	100	1	-124	602.861023	
121	301	580-95452-a-10	1	U	100	1	4496	28606.369141	
122	302	580-95452-a-16	1	U	100	1	27446	230741.890625	
123	303	580-95452-a-17	1	U	100	1	4141	26306.726562	
124	0	RINSE	1	U	1	1	-21	11.833896	
B	0	READ BASELINE	1	RB	1	1	0	12.995391	BL
126	105	CCVL 500.0 PPB	1	U	1	1	8200	541.313049	
127	107	CCV 2500.0 PPB	1	U	1	1	30795	2690.083008	
128	111	CCB	1	U	1	1	-47	10.333090	
B	0	READ BASELINE	1	RB	1	1	0	12.995391	BL

NH3:Calibration 1: Peak 4-129

File name: C:\FLOW_4\062320.RST
Date: 23-Jun-20
Operator: BWH

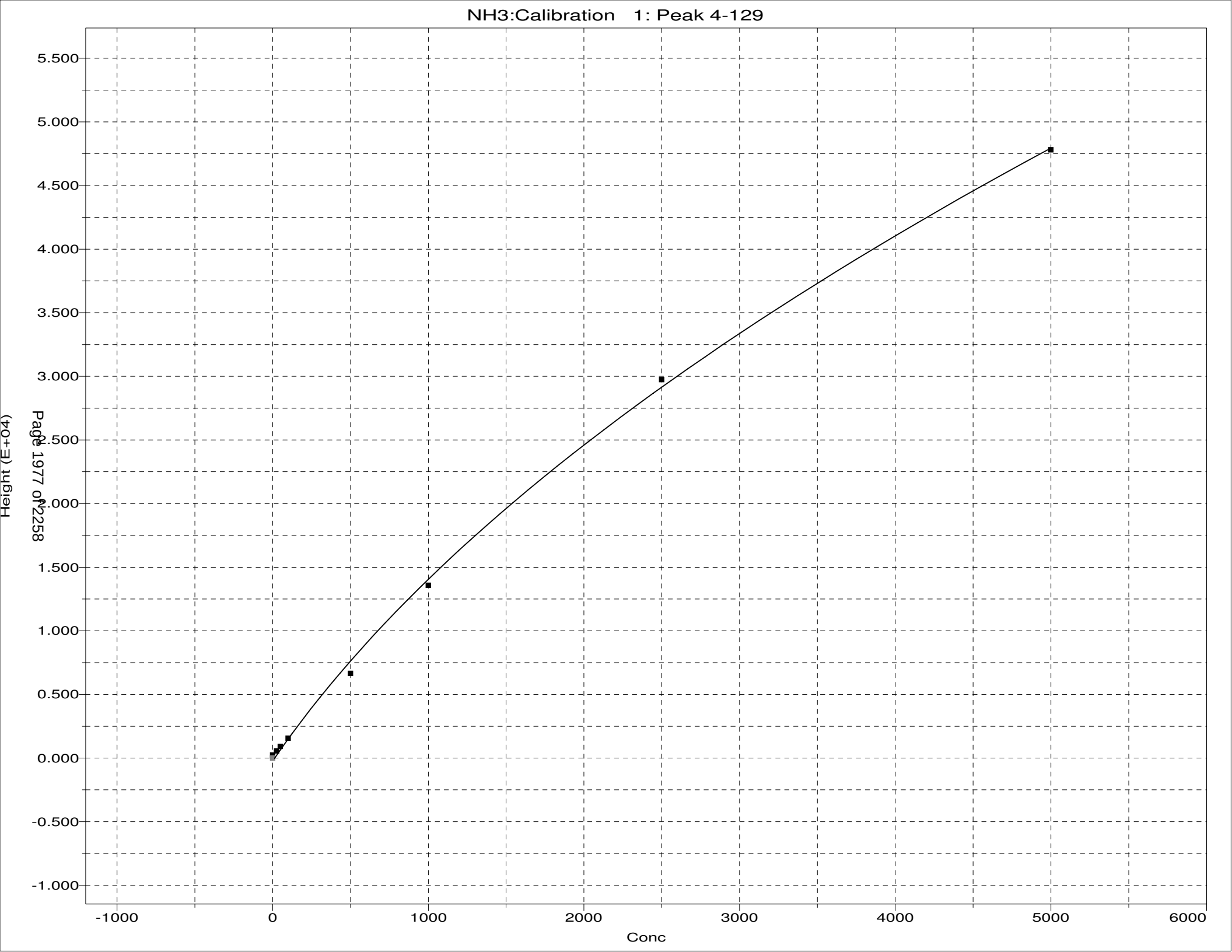
*	Name	Conc	Height
*	Cal 0 ppb	0.000000	232.097961
*	Cal 25 ppb	25.000000	553.787354
*	Cal 50 ppb	50.000000	911.168152
*	Cal 100 ppb	100.000000	1560.583252
*	Cal 500 ppb	500.000000	6641.505859
*	Cal 1000 ppb	1000.000000	13572.619141
*	Cal 2500 ppb	2500.000000	29736.306641
*	Cal 5000 ppb	5000.000000	47805.039062

Calib Coef:
x=cyy+by+a
a: (intercept) 1.2995e+01
b: 5.6262e-02
c: 9.9598e-07

Corr Coef: 0.999713

Carryover: 0.395%

No Drift Peaks


NH3:Calibration 1: Peak 4-129
Height (E+04)
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4.500
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3.000
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2.000
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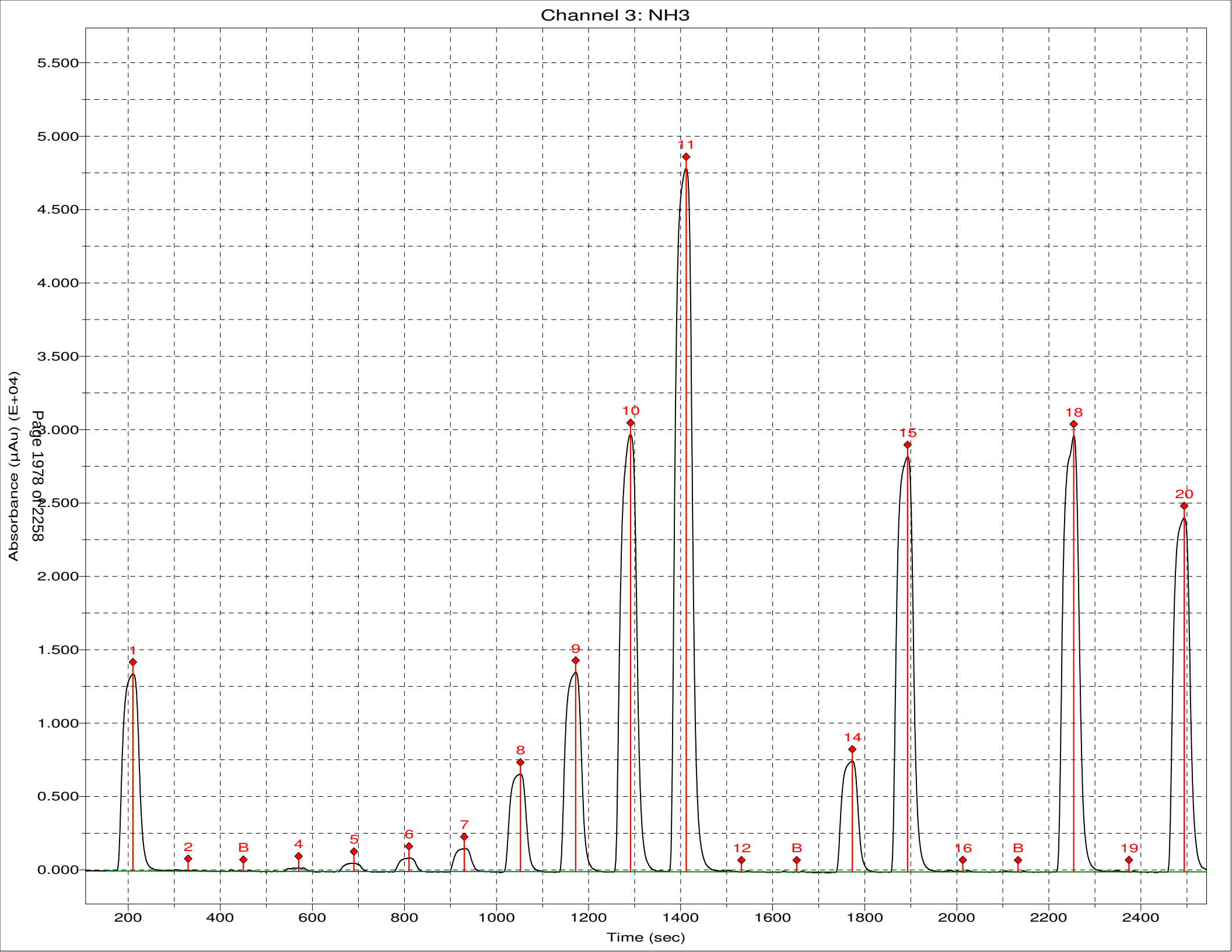
-0.500
-1.000
-1000
0
1000
2000
3000
4000
5000
6000
Conc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Absorbance (µAu) (E+04)
Time (sec)
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3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
1
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B
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5
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11
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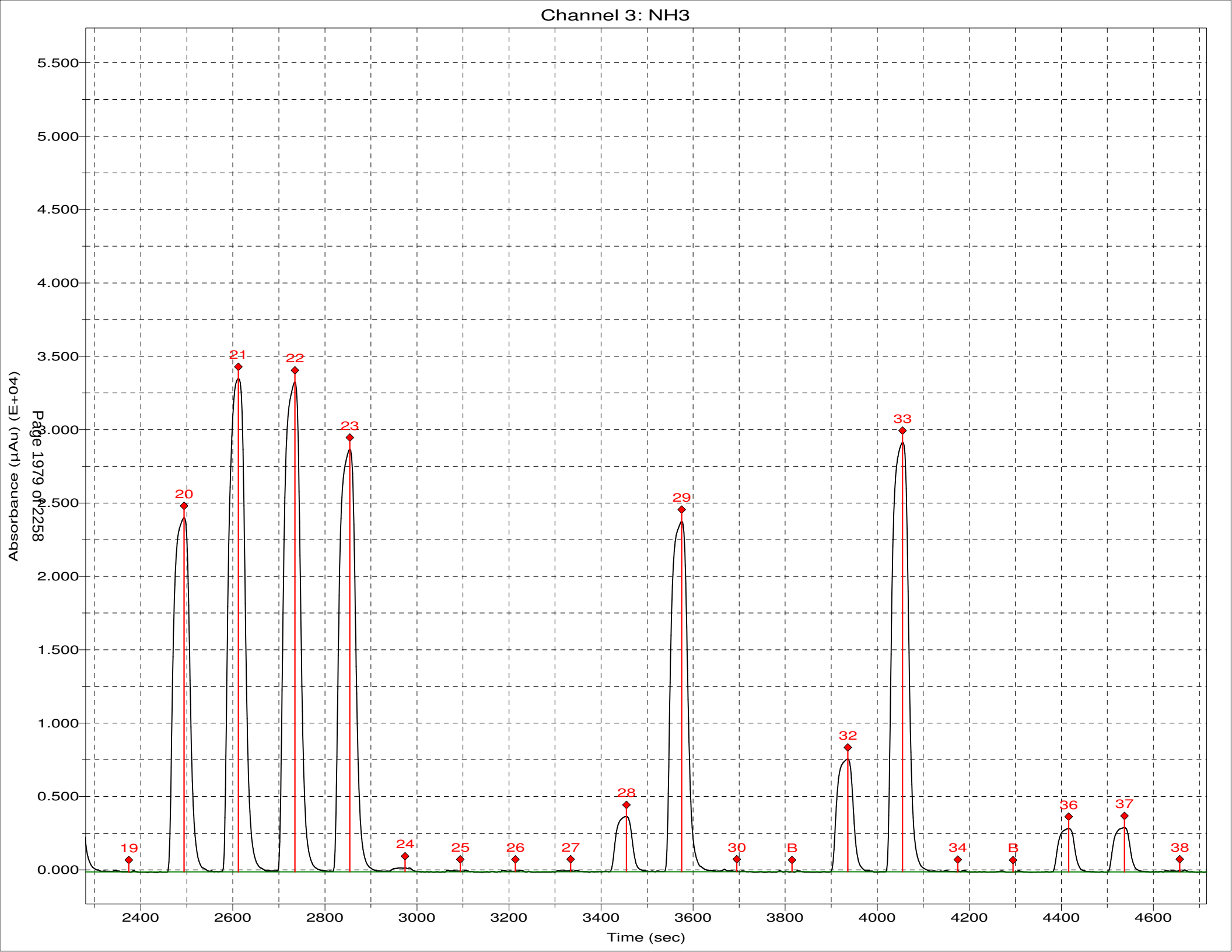
B
14
15
16
B
18
19
20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Absorbance (µAu) (E+04)
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4.500
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
Page 1979 of 2258
19
20
21
22
23
24
25
26
27
28
29
30
B
32
33
34
B
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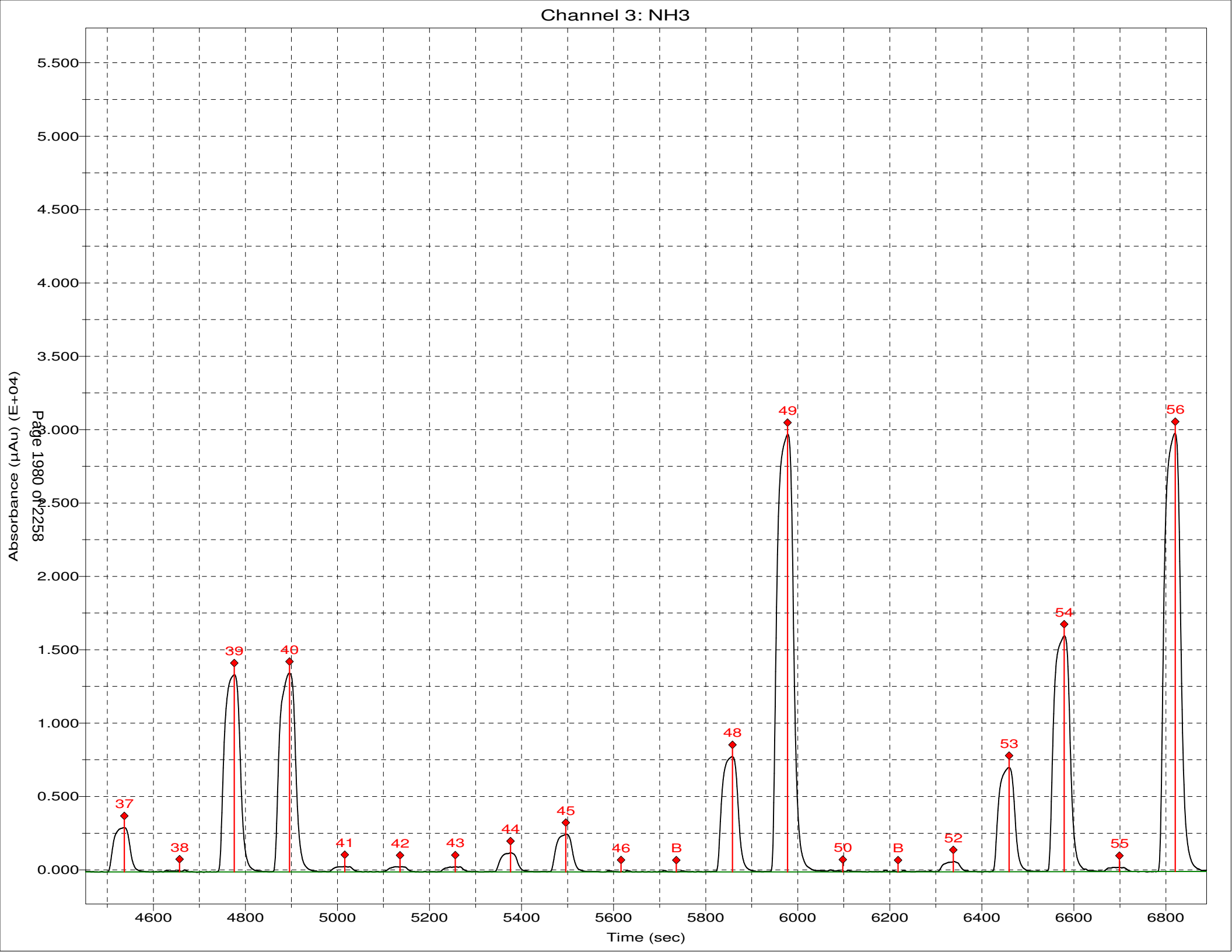
4200
4400
4600
Time (sec)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Absorbance (µAu) (E+04)
Time (sec)
Page 1980 of 2258
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5.000
4.500
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
4600
4800
5000
5200
5400
5600
5800
6000
6200
6400
6600
6800
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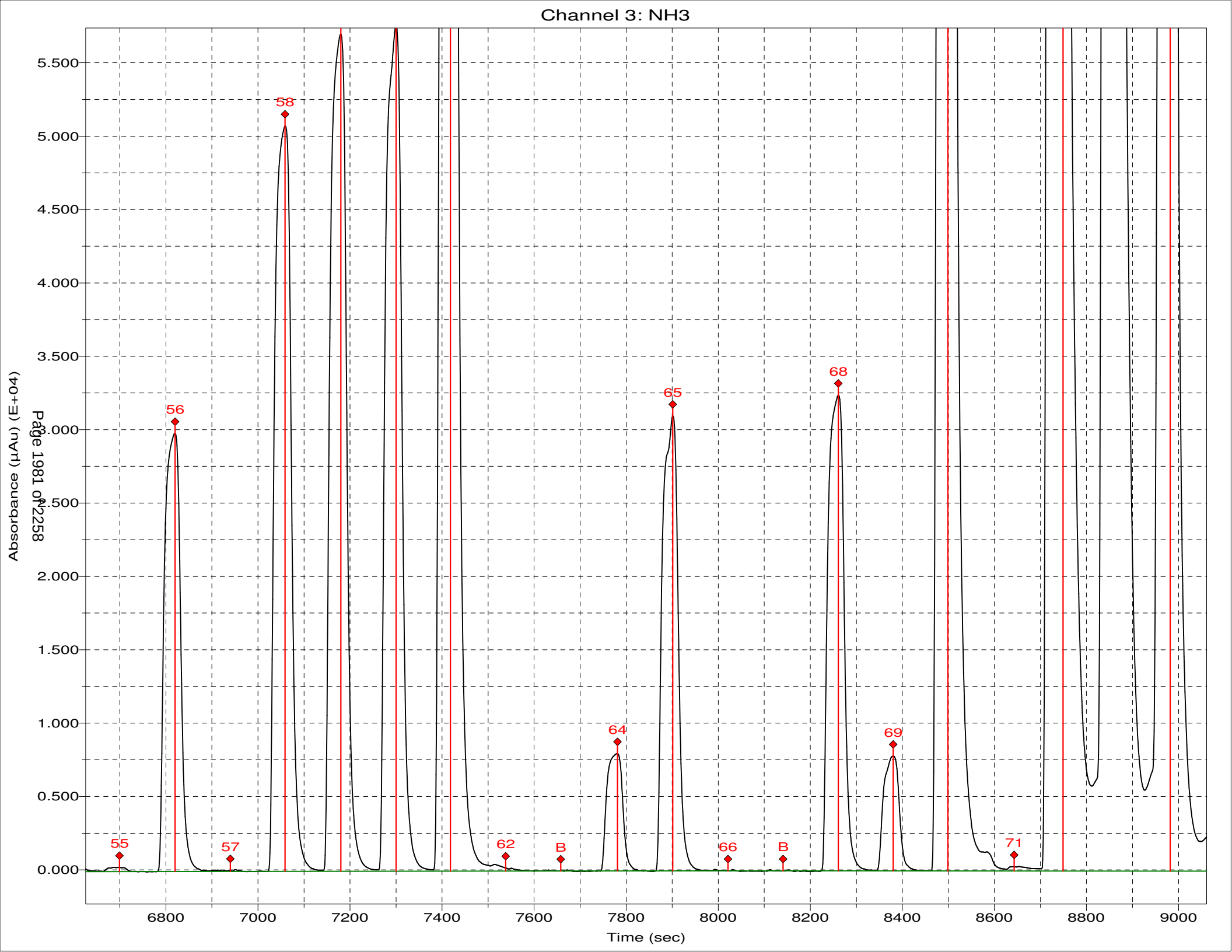
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Absorbance (µAu) (E+04)
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4.500
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
55
56
57
58
62
B
64
65
66
B
68
69
71
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7000
7200
7400
7600
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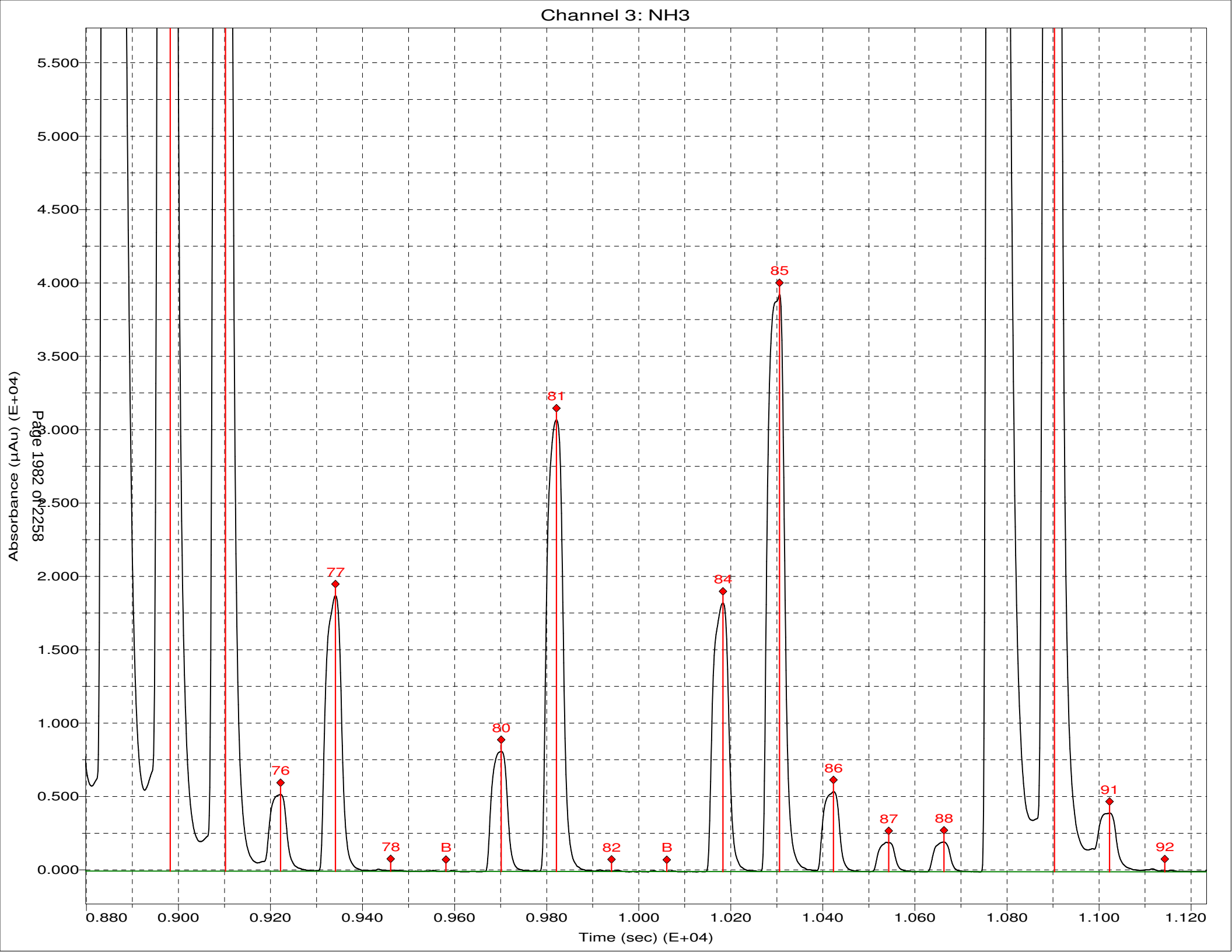
8600
8800
9000
Time (sec)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Absorbance (µAu) (E+04)
Time (sec) (E+04)
Page 1982 of 2258
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5.000
4.500
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
0.880
0.900
0.920
0.940
0.960
0.980
1.000
1.020
1.040
1.060
1.080
1.100
1.120
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B
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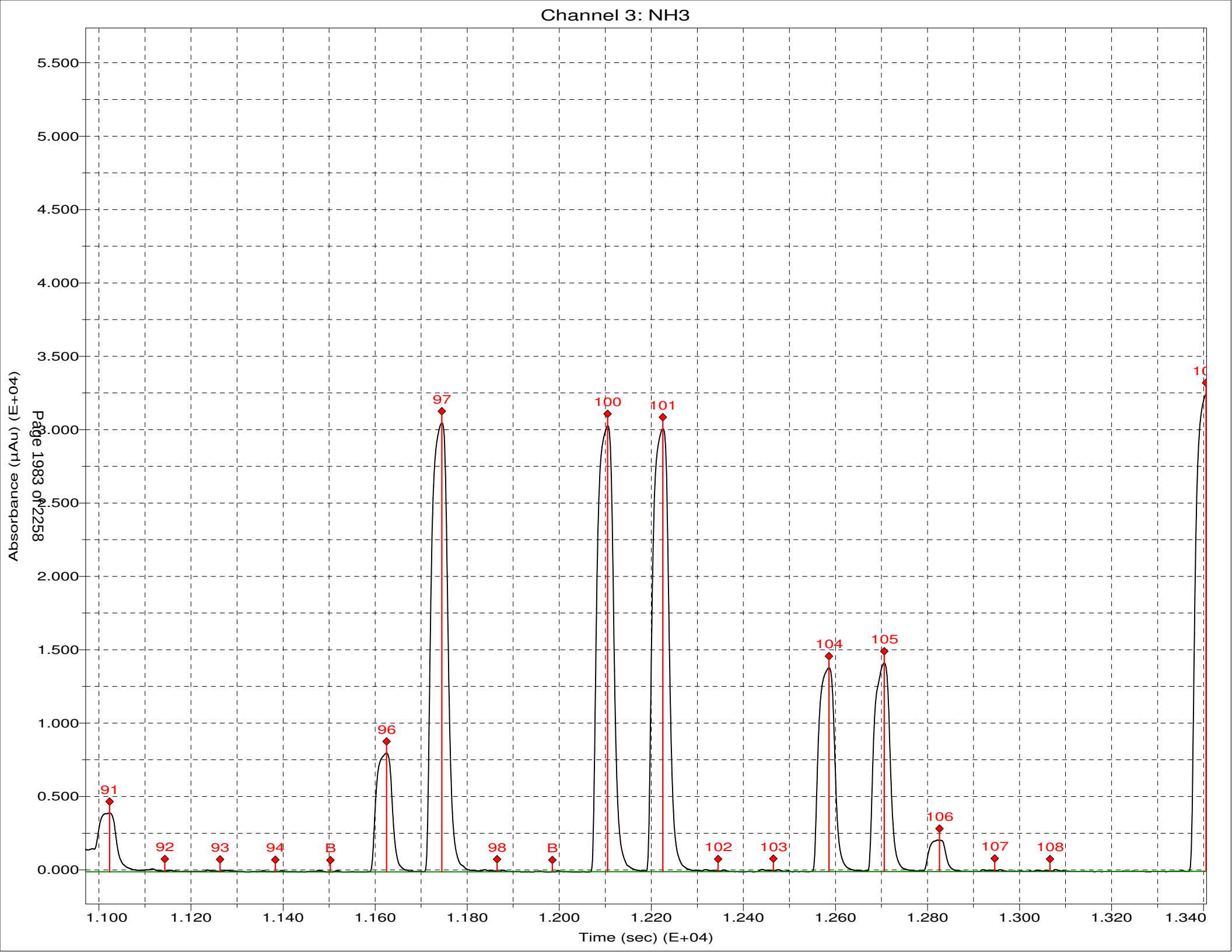
Channel 3: NH3
Absorbance (µAu) (E+04)
Time (sec) (E+04)
Page 1983 of 2258
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4.500
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
1.100
1.120
1.140
1.160
1.180
1.200
1.220
1.240
1.260
1.280
1.300
1.320
1.340
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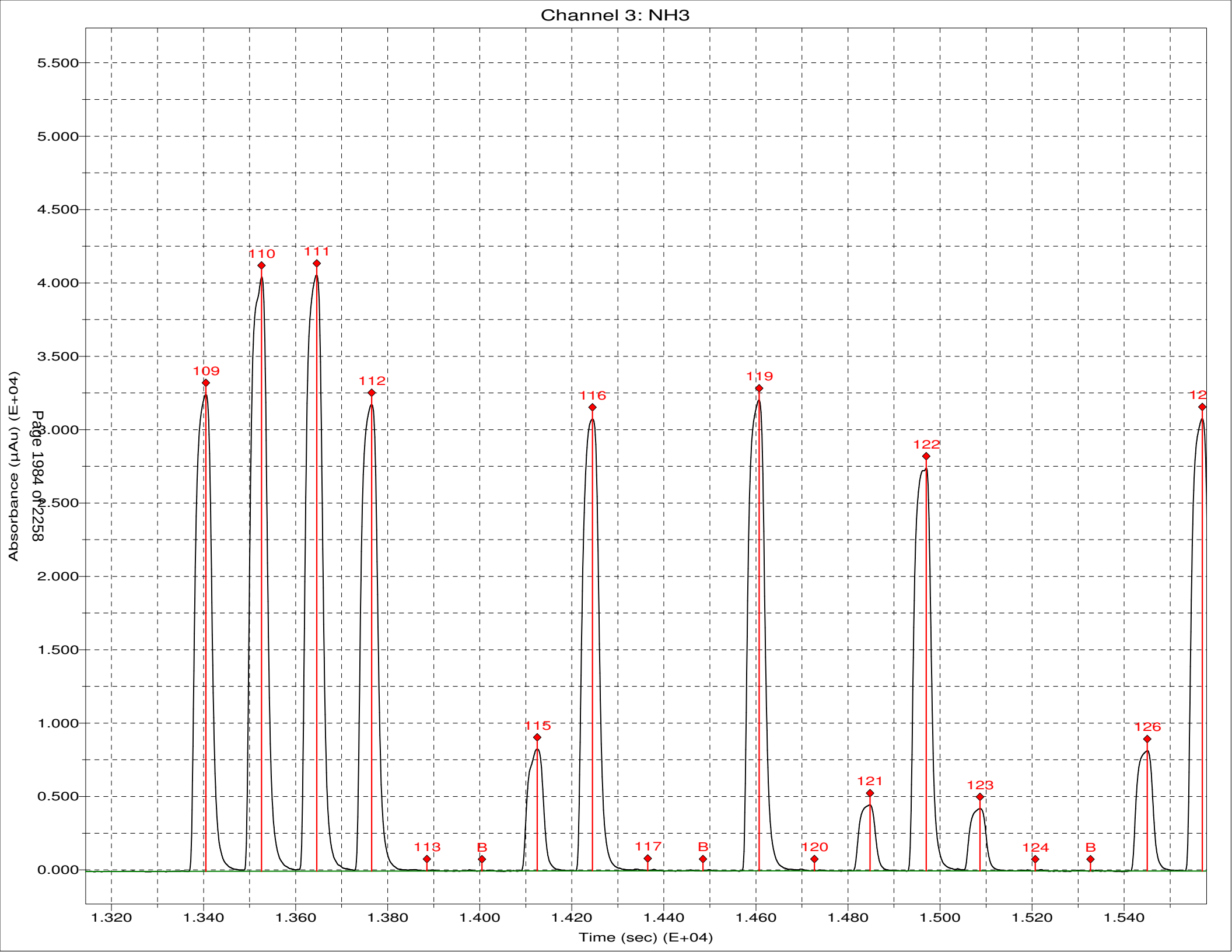
108


Channel 3: NH3
Absorbance (µAu) (E+04)
Time (sec) (E+04)
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5.000
4.500
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
1.320
1.340
1.360
1.380
1.400
1.420
1.440
1.460
1.480
1.500
1.520
1.540
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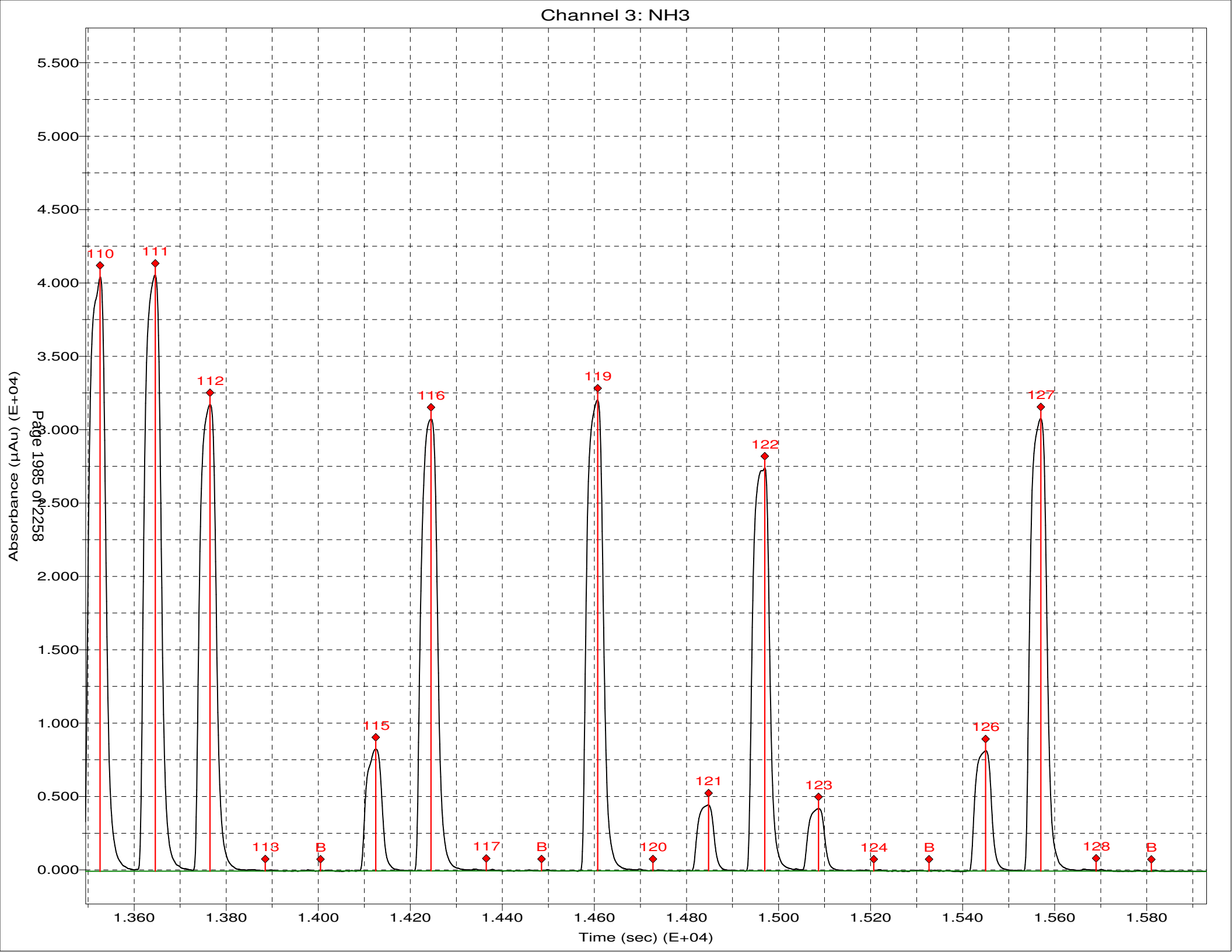
123
124
B
126
12


Channel 3: NH3
Absorbance (µAu) (E+04)
Time (sec) (E+04)
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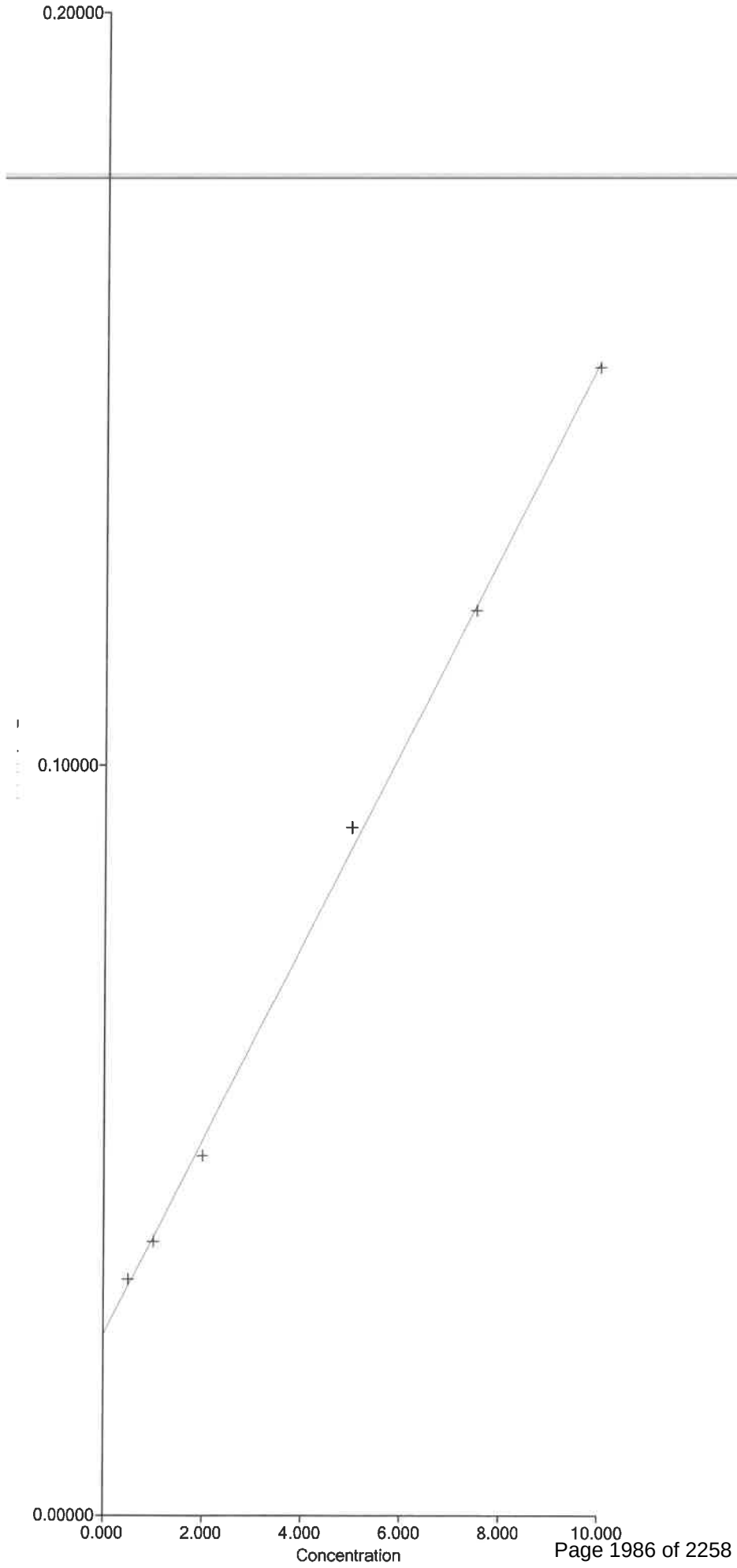
4.000
3.500
3.000
2.500
2.000
1.500
1.000
0.500
0.000
1.360
1.380
1.400
1.420
1.440
1.460
1.480
1.500
1.520
1.540
1.560
1.580
110
111
112
113
B
115
116
117
B
119
120
121
122
123
124
B
126
127
128
B



Segment 1: Equation: y = 0.01294x + 0.02415 X Range = 0.000 to 10.000

Sample Table for 062420

	Position	Identifier	Type	Cup Type
1	1:1	SYNC	SYNC	4 ml
2	1:2	CO	Carry over	4 ml
3	1:3	w	Blank	4 ml
4	1:4	W	Wash	4 ml
5	1:5	C1	Calibrant	4 ml
6	1:6	C2	Calibrant	4 ml
7	1:7	C3	Calibrant	4 ml
8	1:8	C4	Calibrant	4 ml
9	1:9	C5	Calibrant	4 ml
10	1:10	C6	Calibrant	4 ml
11	1:13	w	Blank	4 ml
12	1:14	W	Wash	4 ml
13	1:15	ICV 280-498263/33-A	Unknown	4 ml
14	1:16	ICB 280-498263/34-A	Unknown	4 ml
15	1:17	LCS 280-499858/1-A	Unknown	4 ml
16	1:18	MB 280-499858/2-A	Unknown	4 ml
17	1:19	280-137736-C-9-A	Unknown	4 ml
18	1:20	280-137736-C-9-B MS	Unknown	4 ml
19	1:21	280-137736-C-9-C MSD	Unknown	4 ml
20	1:22	w	Blank	4 ml
21	1:23	280-137736-C-3-A	Unknown	4 ml
22	1:24	280-137736-C-4-A	Unknown	4 ml
23	1:25	280-137736-C-5-A	Unknown	4 ml
24	1:26	280-137736-C-6-A	Unknown	4 ml
25	1:27	280-137736-C-7-A	Unknown	4 ml
26	1:28	280-137736-C-8-A	Unknown	4 ml
27	1:29	280-137736-C-10-A	Unknown	4 ml
28	1:30	w	Blank	4 ml
29	1:31	CCV 280-498263/35-A	Unknown	4 ml
30	1:32	CCB 280-498263/36-A	Unknown	4 ml
31	1:33	280-137736-C-11-A	Unknown	4 ml
32	1:34	280-137736-C-12-A	Unknown	4 ml
33	1:35	280-137736-C-14-A	Unknown	4 ml
34	1:36	280-137736-C-14-B MS	Unknown	4 ml
35	1:37	280-137736-C-14-C MSD	Unknown	4 ml
36	1:38	w	Blank	4 ml
37	1:39	280-137736-C-13-A	Unknown	4 ml
38	1:40	280-137736-C-15-A	Unknown	4 ml
39	1:41	280-137736-C-16-A	Unknown	4 ml
40	1:42	280-137736-C-17-A	Unknown	4 ml
41	1:43	280-137771-B-1-A	Unknown	4 ml
42	1:44	w	Blank	4 ml
43	1:45	CCV 280-498263/35-A	Unknown	4 ml
44	1:46	CCB 280-498263/36-A	Unknown	4 ml

Sample Table for 062420

	Position	Identifier	Type	Cup Type
45	1:47	280-137771-B-2-A	Unknown	4 ml
46	1:48	280-137771-B-3-A	Unknown	4 ml
47	1:49	280-137771-B-4-A	Unknown	4 ml
48	1:50	280-137771-B-5-A	Unknown	4 ml
49	1:51	w	Blank	4 ml
50	1:52	LCS 280-499858/27-A	Unknown	4 ml
51	1:53	MB 280-499858/28-A	Unknown	4 ml
52	1:54	280-137872-E-1-A	Unknown	4 ml
53	1:55	280-137872-E-1-B MS	Unknown	4 ml
54	1:56	280-137872-E-1-C MSD	Unknown	4 ml
55	1:57	w	Blank	4 ml
56	1:58	w	Blank	4 ml
57	1:59	CCV 280-498263/35-A	Unknown	4 ml
58	1:60	CCB 280-498263/36-A	Unknown	4 ml
59	2:1	280-137872-E-2-A	Unknown	4 ml
60	2:2	280-137872-E-3-A	Unknown	4 ml
61	2:3	280-137812-A-1-A	Unknown	4 ml
62	2:4	280-137812-A-2-A	Unknown	4 ml
63	2:5	280-137812-A-3-A	Unknown	4 ml
64	2:6	280-137812-A-4-A	Unknown	4 ml
65	2:7	280-137812-A-5-A	Unknown	4 ml
66	2:8	280-137823-B-4-A	Unknown	4 ml
67	2:9	410-4911-E-5-A	Unknown	4 ml
68	2:10	w	Blank	4 ml
69	2:11	w	Blank	4 ml
70	2:12	CCV 280-498263/35-A	Unknown	4 ml
71	2:13	CCB 280-498263/36-A	Unknown	4 ml
72	2:14	w	Blank	4 ml
73	2:15	MB 280-499858/43-A	Unknown	4 ml
74	2:16	280-137815-A-4-A	Unknown	4 ml
75	2:17	280-137815-A-4-B MS	Unknown	4 ml
76	2:18	280-137815-A-4-C MSD	Unknown	4 ml
77	2:19	280-137815-A-5-A	Unknown	4 ml
78	2:20	w	Blank	4 ml
79	2:21	LCS 280-499477/1-A	Unknown	4 ml
80	2:22	MB 280-499477/2-A	Unknown	4 ml
81	2:23	280-137650-J-3-A	Unknown	4 ml
82	2:24	280-137702-C-1-A	Unknown	4 ml
83	2:25	280-137702-C-9-A	Unknown	4 ml
84	2:26	410-5046-A-5-A	Unknown	4 ml
85	2:27	CCV 280-498263/35-A	Unknown	4 ml
86	2:28	CCB 280-498263/36-A	Unknown	4 ml
87	2:29	280-137815-A-4-A	Unknown	4 ml
88	2:30	280-137815-A-4-B MS	Unknown	4 ml

Sample Table for 062420

	Position	Identifier	Type	Cup Type
89	2:31	280-137815-A-4-C MSD	Unknown	4 ml
90	2:32	280-137815-A-5-A	Unknown	4 ml
91	2:33	280-137736-C-9-B MS	Unknown	4 ml
92	2:34	410-5046-A-5-A	Unknown	4 ml
93	2:35	LCS 280-499858/42-A	Unknown	4 ml
94	2:36	w	Blank	4 ml
95	2:37	CCV 280-498263/35-A	Unknown	4 ml
96	2:38	CCB 280-498263/36-A	Unknown	4 ml

Run Name: 062420
Configuration: TKN
Run date: 6/24/2020

	Position	Identifier	Type	Comme	Date	Time	otal	TKN Cor Ht	mg/l
1	1:1	SYNC	SYNC	50;351.2	6/24/2020	6:19:53 PM	1	0.15469	10.088
2	1:2	CO	Carry over		6/24/2020	6:20:23 PM	1	0.00003	-1.864
3	1:3	w	Blank		6/24/2020	6:21:38 PM	1	0.00221	-1.696
4	1:4	W	Wash		6/24/2020	6:22:53 PM	1	0.00000	-1.866
5	1:5	C1	Calibrant		6/24/2020	6:24:08 PM	1	0.03152	0.570
6	1:6	C2	Calibrant		6/24/2020	6:25:23 PM	1	0.03652	0.956
7	1:7	C3	Calibrant		6/24/2020	6:26:38 PM	1	0.04798	1.842
8	1:8	C4	Calibrant		6/24/2020	6:27:53 PM	1	0.09171	5.221
9	1:9	C5	Calibrant		6/24/2020	6:29:08 PM	1	0.12062	7.455
10	1:10	C6	Calibrant		6/24/2020	6:30:23 PM	1	0.15297	9.955
		Curve #:							1
		Curve Type:							Linear
		Correlation:							0.99943
		Intercept:							0.024146
		Linear coef:							0.012940
11	1:13	w	Blank		6/24/2020	6:31:38 PM	1	0.00194	-1.716
12	1:14	W	Wash		6/24/2020	6:32:53 PM	1	0.00000	-1.866
13	1:15	ICV 280-498263/33-A	Unknown		6/24/2020	6:34:08 PM	1	0.08795	4.931
14	1:16	ICB 280-498263/34-A	Unknown		6/24/2020	6:35:23 PM	1	0.01749	-0.515
15	1:17	LCS 280-499858/1-A	Unknown		6/24/2020	6:36:38 PM	1	0.10781	6.466
16	1:18	MB 280-499858/2-A	Unknown		6/24/2020	6:37:53 PM	1	0.01613	-0.620
17	1:19	280-137736-C-9-A	Unknown		6/24/2020	6:39:08 PM	1	0.02576	0.125
18	1:20	280-137736-C-9-B MS	Unknown		6/24/2020	6:40:23 PM	1	0.02569	0.120
19	1:21	280-137736-C-9-C MSD	Unknown		6/24/2020	6:41:38 PM	1	0.03988	1.216
20	1:22	w	Blank		6/24/2020	6:42:53 PM	1	-0.00145	-1.978
21	1:23	280-137736-C-3-A	Unknown		6/24/2020	6:44:08 PM	1	0.02350	-0.050
22	1:24	280-137736-C-4-A	Unknown		6/24/2020	6:45:23 PM	1	0.03498	0.837
23	0	AutoWash	AutoWash		6/24/2020	6:46:38 PM	1	0.00872	-1.192
24	0	AutoWash	AutoWash		6/24/2020	6:47:52 PM	1	0.00000	-1.866
25	1:25	280-137736-C-5-A	Unknown		6/24/2020	6:49:07 PM	1	0.06250	2.964
26	1:26	280-137736-C-6-A	Unknown		6/24/2020	6:50:22 PM	1	0.02262	-0.118
27	1:27	280-137736-C-7-A	Unknown		6/24/2020	6:51:37 PM	1	0.02130	-0.220
28	1:28	280-137736-C-8-A	Unknown		6/24/2020	6:52:52 PM	1	0.02960	0.421
29	1:29	280-137736-C-10-A	Unknown		6/24/2020	6:54:08 PM	1	0.02368	-0.036
30	1:30	w	Blank		6/24/2020	6:55:23 PM	1	0.02056	-0.277
31	1:31	CCV 280-498263/35-A	Unknown		6/24/2020	6:56:38 PM	1	0.08871	4.990
32	1:32	CCB 280-498263/36-A	Unknown		6/24/2020	6:57:53 PM	1	0.02167	-0.192
33	1:33	280-137736-C-11-A	Unknown		6/24/2020	6:59:08 PM	1	0.03818	1.085
34	1:34	280-137736-C-12-A	Unknown		6/24/2020	7:00:23 PM	1	0.02429	0.011
35	0	AutoWash	AutoWash		6/24/2020	7:01:38 PM	1	0.00106	-1.784
36	0	AutoWash	AutoWash		6/24/2020	7:02:53 PM	1	0.00000	-1.866
37	1:35	280-137736-C-14-A	Unknown		6/24/2020	7:04:08 PM	1	0.03237	0.635
38	1:36	280-137736-C-14-B MS	Unknown		6/24/2020	7:05:23 PM	1	0.04575	1.670

	Position	Identifier	Type	Comme	Date	Time	otal	TKN Cor Ht	mg/l
39	1:37	280-137736-C-14-C MSD	Unknown		6/24/2020	7:06:38 PM	1	0.04501	1.612
40	1:38	w	Blank		6/24/2020	7:07:53 PM	1	-0.00132	-1.968
41	1:39	280-137736-C-13-A	Unknown		6/24/2020	7:09:08 PM	1	0.04164	1.352
42	1:40	280-137736-C-15-A	Unknown		6/24/2020	7:10:23 PM	1	0.03251	0.646
43	1:41	280-137736-C-16-A	Unknown		6/24/2020	7:11:38 PM	1	0.04399	1.534
44	1:42	280-137736-C-17-A	Unknown		6/24/2020	7:12:53 PM	1	0.01728	-0.531
45	1:43	280-137771-B-1-A	Unknown		6/24/2020	7:14:08 PM	1	0.02007	-0.315
46	1:44	w	Blank		6/24/2020	7:15:23 PM	1	0.00066	-1.815
47	0	AutoWash	AutoWash		6/24/2020	7:16:38 PM	1	-0.00033	-1.892
48	0	AutoWash	AutoWash		6/24/2020	7:17:53 PM	1	0.00000	-1.866
49	1:45	CCV 280-498263/35-A	Unknown		6/24/2020	7:19:08 PM	1	0.09146	5.202
50	1:46	CCB 280-498263/36-A	Unknown		6/24/2020	7:20:23 PM	1	0.01813	-0.465
51	1:47	280-137771-B-2-A	Unknown		6/24/2020	7:21:37 PM	1	0.02841	0.330
52	1:48	280-137771-B-3-A	Unknown		6/24/2020	7:22:52 PM	1	0.02915	0.387
53	1:49	280-137771-B-4-A	Unknown		6/24/2020	7:24:07 PM	1	0.03064	0.502
54	1:50	280-137771-B-5-A	Unknown		6/24/2020	7:25:22 PM	1	0.02785	0.286
55	1:51	w	Blank		6/24/2020	7:26:37 PM	1	-0.00105	-1.947
56	1:52	LCS 280-499858/27-A	Unknown		6/24/2020	7:27:52 PM	1	0.10905	6.561
57	1:53	MB 280-499858/28-A	Unknown		6/24/2020	7:29:08 PM	1	0.01876	-0.416
58	1:54	280-137872-E-1-A	Unknown		6/24/2020	7:30:23 PM	1	0.02856	0.341
59	0	AutoWash	AutoWash		6/24/2020	7:31:38 PM	1	0.00163	-1.740
60	0	AutoWash	AutoWash		6/24/2020	7:32:53 PM	1	0.00000	-1.866
61	1:55	280-137872-E-1-B MS	Unknown		6/24/2020	7:34:08 PM	1	0.06833	3.415
62	1:56	280-137872-E-1-C MSD	Unknown		6/24/2020	7:35:23 PM	1	0.05063	2.047
63	1:57	w	Blank		6/24/2020	7:36:38 PM	1	0.00646	-1.367
64	1:58	w	Blank		6/24/2020	7:37:53 PM	1	0.00473	-1.501
65	1:59	CCV 280-498263/35-A	Unknown		6/24/2020	7:39:08 PM	1	0.09466	5.450
66	1:60	CCB 280-498263/36-A	Unknown		6/24/2020	7:40:23 PM	1	0.02484	0.053
67	2:1	280-137872-E-2-A	Unknown		6/24/2020	7:41:38 PM	1	0.03405	0.765
68	2:2	280-137872-E-3-A	Unknown		6/24/2020	7:42:53 PM	1	0.03215	0.618
69	2:3	280-137812-A-1-A	Unknown		6/24/2020	7:44:08 PM	1	0.02592	0.137
70	2:4	280-137812-A-2-A	Unknown		6/24/2020	7:45:23 PM	1	0.03083	0.517
71	0	AutoWash	AutoWash		6/24/2020	7:46:38 PM	1	0.00259	-1.666
72	0	AutoWash	AutoWash		6/24/2020	7:47:53 PM	1	0.00000	-1.866
73	2:5	280-137812-A-3-A	Unknown		6/24/2020	7:49:08 PM	1	0.02799	0.297
74	2:6	280-137812-A-4-A	Unknown		6/24/2020	7:50:23 PM	1	0.02235	-0.139
75	2:7	280-137812-A-5-A	Unknown		6/24/2020	7:51:38 PM	1	0.02182	-0.179
76	2:8	280-137823-B-4-A	Unknown		6/24/2020	7:52:53 PM	1	0.06512	3.166
77	2:9	410-4911-E-5-A	Unknown		6/24/2020	7:54:08 PM	1	0.03583	0.903
78	2:10	w	Blank		6/24/2020	7:55:23 PM	1	0.03355	0.727
79	2:11	w	Blank		6/24/2020	7:56:37 PM	1	0.00452	-1.517
80	2:12	CCV 280-498263/35-A	Unknown		6/24/2020	7:57:52 PM	1	0.09506	5.481
81	2:13	CCB 280-498263/36-A	Unknown		6/24/2020	7:59:07 PM	1	0.02693	0.215
82	2:14	w	Blank		6/24/2020	8:00:22 PM	1	0.03448	0.799
83	0	AutoWash	AutoWash		6/24/2020	8:01:37 PM	1	0.00610	-1.395
84	0	AutoWash	AutoWash		6/24/2020	8:02:52 PM	1	0.00000	-1.866
85	2:15	MB 280-499858/43-A	Unknown		6/24/2020	8:04:08 PM	1	0.02004	-0.317
86	2:16	280-137815-A-4-A	Unknown		6/24/2020	8:05:23 PM	1	0.17766	11.863

	Position	Identifier	Type	Comme	Date	Time	otal	TKN Cor Ht	TKN mg/l
87	2:17	280-137815-A-4-B MS	Unknown		6/24/2020	8:06:38 PM	1	0.20532	14.001
88	2:18	280-137815-A-4-C MSD	Unknown		6/24/2020	8:07:53 PM	1	0.20680	14.115
89	2:19	280-137815-A-5-A	Unknown		6/24/2020	8:09:08 PM	1	0.25119	17.546
90	2:20	w	Blank		6/24/2020	8:10:23 PM	1	0.00067	-1.814
91	2:21	LCS 280-499477/1-A	Unknown		6/24/2020	8:11:38 PM	1	0.10935	6.585
92	2:22	MB 280-499477/2-A	Unknown		6/24/2020	8:12:53 PM	1	0.02074	-0.264
93	2:23	280-137650-J-3-A	Unknown		6/24/2020	8:14:08 PM	1	0.03738	1.023
94	2:24	280-137702-C-1-A	Unknown		6/24/2020	8:15:23 PM	1	0.06048	2.808
95	0	AutoWash	AutoWash		6/24/2020	8:16:38 PM	1	-0.00082	-1.930
96	0	AutoWash	AutoWash		6/24/2020	8:17:53 PM	1	0.00000	-1.866
97	2:25	280-137702-C-9-A	Unknown		6/24/2020	8:19:08 PM	1	0.09764	5.680
98	2:26	410-5046-A-5-A	Unknown		6/24/2020	8:20:23 PM	1	0.03138	0.559
99	2:27	CCV 280-498263/35-A	Unknown		6/24/2020	8:21:38 PM	1	0.09276	5.303
100	2:28	CCB 280-498263/36-A	Unknown		6/24/2020	8:22:53 PM	1	0.02065	-0.270
101	2:29	280-137815-A-4-A	Unknown		6/24/2020	8:24:08 PM	2	0.09033	10.229
102	2:30	280-137815-A-4-B MS	Unknown		6/24/2020	8:25:23 PM	2	0.09511	10.968
103	2:31	280-137815-A-4-C MSD	Unknown		6/24/2020	8:26:38 PM	2	0.09707	11.271
104	2:32	280-137815-A-5-A	Unknown		6/24/2020	8:27:52 PM	5	0.06016	13.918
105	2:33	280-137736-C-9-B MS	Unknown		6/24/2020	8:29:08 PM	1	0.04882	1.907
106	2:34	410-5046-A-5-A	Unknown		6/24/2020	8:30:23 PM	1	0.03485	0.827
107	0	AutoWash	AutoWash		6/24/2020	8:31:37 PM	1	0.00121	-1.772
108	0	AutoWash	AutoWash		6/24/2020	8:32:52 PM	1	0.00000	-1.866
109	2:35	LCS 280-499858/42-A	Unknown		6/24/2020	8:34:07 PM	1	0.10791	6.473
110	2:36	w	Blank		6/24/2020	8:35:22 PM	1	0.08772	4.913
111	2:37	CCV 280-498263/35-A	Unknown		6/24/2020	8:36:37 PM	1	0.09084	5.154
112	2:38	CCB 280-498263/36-A	Unknown		6/24/2020	8:37:52 PM	1	0.01552	-0.667
113	0	AutoWash	AutoWash		6/24/2020	8:39:08 PM	1	-0.00308	-2.104
114	0	AutoWash	AutoWash		6/24/2020	8:40:23 PM	1	0.00000	-1.866

062420, 6/24/2020 - TKN
ABS
0.28306
0.25363
0.22419
0.19476
0.16533
0.13589
0.10646
0.07702
0.04759
0.01816
-0.01128
3:00
4:00
5:00
6:00
7:00
8:00
9:00
10:00
11:00
12:00
13:00
14:00
15:00
16:00
17:00
18:00
19:00
20:00
21:00
22:00
23:00
24:00
25:00
26:00
27:00
28:00
29:00
30:00
31:00
32:00
S:1 SYNC 10.088
S:2 CO -1.864
S:3 W -1.696
S:4 W -1.866
S:5 C1 0.570
S:6 C2 0.956
S:7 C3 1.842
S:8 C4 5.221
S:9 C5 7.455
S:10 C6 9.955
S:11 W -1.716
S:12 W -1.866
S:13 ICV 280-498263/33-A 4.931
S:14 ICB 280-498263/34-A -0.515
S:15 LCS 280-499858/1-A 6.466
S:16 MB 280-499858/2-A -0.620
S:17 280-137736-C-9-A 0.125
S:18 280-137736-C-9-B MS 0.120
S:19 280-137736-C-9-C MSD 1.216
S:20 W -1.978
S:21 280-137736-C-3-A -0.050
S:22 280-137736-C-4-A 0.837
S:23 AutoWash -1.192
S:24 AutoWash -1.866

062420, 6/24/2020 - TKN
ABS
0.28306
0.25363
0.22419
0.19476
0.16533
0.13589
0.10646
0.07702
0.04759
0.01816
-0.01128
33:00
34:00
35:00
36:00
37:00
38:00
39:00
40:00
41:00
42:00
43:00
44:00
45:00
46:00
47:00
48:00
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56:00
57:00
58:00
59:00
1:00:00
1:01:00
1:02:00
S:25 280-137736-C-5-A 2.964
S:26 280-137736-C-6-A -0.118
S:27 280-137736-C-7-A -0.220
S:28 280-137736-C-8-A 0.421
S:29 280-137736-C-10-A -0.036
S:30 W -0.277
S:31 CCV 280-498263/35-A 4.990
S:32 CCB 280-498263/36-A -0.192
S:33 280-137736-C-11-A 1.085
S:34 280-137736-C-12-A 0.011
S:35 AutoWash -1.784
S:36 AutoWash -1.866
S:37 280-137736-C-14-A 0.635
S:38 280-137736-C-14-B MS 1.670
S:39 280-137736-C-14-C MSD 1.612
S:40 W -1.968
S:41 280-137736-C-13-A 1.352
S:42 280-137736-C-15-A 0.646
S:43 280-137736-C-16-A 1.534
S:44 280-137736-C-17-A -0.531
S:45 280-137771-B-1-A -0.315
S:46 W -1.815
S:47 AutoWash -1.892
S:48 AutoWash -1.866

062420, 6/24/2020 - TKN
ABS
0.28306
0.25363
0.22419
0.19476
0.16533
0.13589
0.10646
0.07702
0.04759
0.01816
-0.01128
1:03:00
1:04:00
1:05:00
1:06:00
1:07:00
1:08:00
1:09:00
1:10:00
1:11:00
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1:25:00
1:26:00
1:27:00
1:28:00
1:29:00
1:30:00
1:31:00
1:32:00
1:33:00
S:49 CCV 280-498263/35-A 5.202
S:50 CCB 280-498263/36-A -0.465
S:51 280-137771-B-2-A 0.330
S:52 280-137771-B-3-A 0.387
S:53 280-137771-B-4-A 0.502
S:54 280-137771-B-5-A 0.286
S:55 W -1.947
S:56 LCS 280-499858/27-A 6.561
S:57 MB 280-499858/28-A -0.416
S:58 280-137872-E-1-A 0.341
S:59 AutoWash -1.740
S:60 AutoWash -1.866
S:61 280-137872-E-1-B MS 3.415
S:62 280-137872-E-1-C MSD 2.047
S:63 W -1.367
S:64 W -1.501
S:65 CCV 280-498263/35-A 5.450
S:66 CCB 280-498263/36-A 0.053
S:67 280-137872-E-2-A 0.765
S:68 280-137872-E-3-A 0.618
S:69 280-137812-A-1-A 0.137
S:70 280-137812-A-2-A 0.517
S:71 AutoWash -1.666
S:72 AutoWash -1.866

062420, 6/24/2020 - TKN
ABS
0.28306
0.25363
0.22419
0.19476
0.16533
0.13589
0.10646
0.07702
0.04759
0.01816
-0.01128
1:34:00
1:35:00
1:36:00
1:37:00
1:38:00
1:39:00
1:40:00
1:41:00
1:42:00
1:43:00
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1:49:00
1:50:00
1:51:00
1:52:00
1:53:00
1:54:00
1:55:00
1:56:00
1:57:00
1:58:00
1:59:00
2:00:00
2:01:00
2:02:00
2:03:00
S:73 280-137812-A-3-A 0.297
S:74 280-137812-A-4-A -0.139
S:75 280-137812-A-5-A -0.179
S:76 280-137823-B-4-A 3.166
S:77 410-4911-E-5-A 0.903
S:78 W 0.727
S:79 W -1.517
S:80 CCV 280-498263/35-A 5.481
S:81 CCB 280-498263/36-A 0.215
S:82 W 0.799
S:83 AutoWash -1.395
S:84 AutoWash -1.866
S:85 MB 280-499858/43-A -0.317
S:86 280-137815-A-4-A 11.863
S:87 280-137815-A-4-B MS 14.001
S:88 280-137815-A-4-C MSD 14.115
S:89 280-137815-A-5-A 17.546
S:90 W -1.814
S:91 LCS 280-499477/1-A 6.585
S:92 MB 280-499477/2-A -0.264
S:93 280-137650-J-3-A 1.023
S:94 280-137702-C-1-A 2.808
S:95 AutoWash -1.930
S:96 AutoWash -1.866
S:97 280-137702-C-9-A 5.680

062420, 6/24/2020 - TKN
ABS
0.28306
0.25363
0.22419
0.19476
0.16533
0.13589
0.10646
0.07702
0.04759
0.01816
-0.01128
2:04:00
2:05:00
2:06:00
2:07:00
2:08:00
2:09:00
2:10:00
2:11:00
2:12:00
2:13:00
2:14:00
2:15:00
2:16:00
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2:20:00
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2:23:00
2:24:00
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2:26:00
2:27:00
2:28:00
2:29:00
2:30:00
2:31:00
2:32:00
2:33:00
2:34:00
S:98 410-5046-A-5-A 0.559
S:99 CCV 280-498263/35-A 5.303
S:100 CCB 280-498263/36-A -0.270
S:101 280-137815-A-4-A 10.229
S:102 280-137815-A-4-B MS 10.968
S:103 280-137815-A-4-C MSD 11.271
S:104 280-137815-A-5-A 13.918
S:105 280-137736-C-9-B MS 1.907
S:106 410-5046-A-5-A 0.827
S:107 AutoWash -1.772
S:108 AutoWash -1.866
S:109 LCS 280-499858/42-A 6.473
S:110 w 4.913
S:111 CCV 280-498263/35-A 5.154
S:112 CCB 280-498263/36-A -0.667
S:113 AutoWash -2.104
S:114 AutoWash -1.866

Run Results Report

Facility Name	
Facility Location	
Department	
Operator Name	svc
Operator ID	svc
Platform	FS III/IV/3100
Software Rev Code	240
Data system ID	54
Result path	C:\FLOW_4\062220.RST
Sample table path	C:\FLOW_4\062220.tbl
Method path	C:\FLOW_4\nox.mth
Date acquired	22-Jun-20
Time acquired	21:35

Date	Time	Cup	Name
22-Jun-20	16:32	109	SYNC
22-Jun-20	16:34	0	Carryover
22-Jun-20	16:36	0	Carryover (Statistics)
22-Jun-20	16:38	0	read baseline
22-Jun-20	16:40	101	Cal 0.00 ppb
22-Jun-20	16:42	102	Cal 50.0 ppb
22-Jun-20	16:44	103	Cal 100 ppb
22-Jun-20	16:46	104	Cal 500 ppb
22-Jun-20	16:48	105	Cal 1000 ppb
22-Jun-20	16:50	106	Cal 2500 ppb
22-Jun-20	16:52	107	Cal 5000 ppb
22-Jun-20	16:54	108	Cal 7500 ppb
22-Jun-20	16:56	109	Cal 10000 ppb
22-Jun-20	16:58	0	Blank
22-Jun-20	17:00	0	Read Baseline
22-Jun-20	17:02	110	5000 PPB NO2
22-Jun-20	17:04	111	ICV 5000 PPB
22-Jun-20	17:06	112	ICV 2000 PPB
22-Jun-20	17:08	0	ICB
22-Jun-20	17:10	0	Read Baseline
22-Jun-20	17:12	107	LCS
22-Jun-20	17:14	0	MB
22-Jun-20	17:16	113	280-137702-C-1
22-Jun-20	17:18	114	ms 280-137702-C-1
22-Jun-20	17:20	115	msd 280-137702-C-1
22-Jun-20	17:22	116	280-137702-C-2
22-Jun-20	17:24	117	280-137702-C-3
22-Jun-20	17:26	118	280-137702-C-4
22-Jun-20	17:28	119	280-137702-C-5
22-Jun-20	17:30	120	280-137702-C-6
22-Jun-20	17:32	121	280-137702-C-7
22-Jun-20	17:34	122	280-137702-C-8
22-Jun-20	17:36	0	Rinse
22-Jun-20	17:38	0	Read Baseline
22-Jun-20	17:40	107	CCV 5000 ppb
22-Jun-20	17:42	105	CCVL 1000 ppb
22-Jun-20	17:44	0	CCB
22-Jun-20	17:46	0	Read Baseline
22-Jun-20	17:48	123	280-137702-C-9
22-Jun-20	17:50	124	280-137702-C-10
22-Jun-20	17:52	125	280-137702-C-14
22-Jun-20	17:54	126	ms 280-137702-C-14
22-Jun-20	17:56	127	msd 280-137702-C-14
22-Jun-20	17:58	128	280-137702-C-11

Result path C:\FLOW_4\062220.RST
Sample table path C:\FLOW_4\062220.tbl
Method path C:\FLOW_4\nox.mth
Date acquired 22-Jun-20
Time acquired 21:35

Date	Time	Cup	Name
22-Jun-20	18:00	129	280-137702-C-12
22-Jun-20	18:02	130	280-137702-C-13
22-Jun-20	18:04	131	280-137702-C-15
22-Jun-20	18:06	132	280-137702-C-16
22-Jun-20	18:08	0	Rinse
22-Jun-20	18:10	0	Read Baseline
22-Jun-20	18:12	107	CCV 5000 ppb
22-Jun-20	18:14	105	CCVL 1000 ppb
22-Jun-20	18:16	0	CCB
22-Jun-20	18:18	0	Read Baseline
22-Jun-20	18:20	133	280-137702-C-17
22-Jun-20	18:22	134	280-137702-C-18
22-Jun-20	18:24	135	280-137702-C-19
22-Jun-20	18:26	136	280-137702-C-21
22-Jun-20	18:28	107	LCS
22-Jun-20	18:30	0	MB
22-Jun-20	18:32	137	280-137702-C-20
22-Jun-20	18:34	138	ms 280-137702-C-20
22-Jun-20	18:36	139	msd 280-137702-C-20
22-Jun-20	18:38	140	280-137702-C-22
22-Jun-20	18:40	0	Rinse
22-Jun-20	18:42	0	Read Baseline
22-Jun-20	18:44	107	CCV 5000 ppb
22-Jun-20	18:46	105	CCVL 1000 ppb
22-Jun-20	18:48	0	CCB
22-Jun-20	18:50	0	Read Baseline
22-Jun-20	18:52	141	280-137702-C-23
22-Jun-20	18:54	142	280-137702-C-24
22-Jun-20	18:56	143	280-137702-C-25
22-Jun-20	18:58	144	280-137702-C-26
22-Jun-20	19:00	145	280-137702-C-27
22-Jun-20	19:02	146	280-137702-C-28
22-Jun-20	19:04	147	280-137702-C-29
22-Jun-20	19:06	148	280-137702-C-30
22-Jun-20	19:08	149	280-137780-B-1
22-Jun-20	19:10	150	ms 280-137780-B-1
22-Jun-20	19:12	0	Rinse
22-Jun-20	19:14	0	Read Baseline
22-Jun-20	19:16	107	CCV 5000 ppb
22-Jun-20	19:18	105	CCVL 1000 ppb
22-Jun-20	19:20	0	CCB
22-Jun-20	19:22	0	Read Baseline
22-Jun-20	19:24	151	msd 280-137780-B-1
22-Jun-20	19:26	152	280-137780-B-2
22-Jun-20	19:28	153	280-137780-B-3
22-Jun-20	19:30	154	280-137780-B-4
22-Jun-20	19:32	155	280-137780-B-5
22-Jun-20	19:34	156	280-137780-B-6
22-Jun-20	19:36	157	280-137780-B-7
22-Jun-20	19:38	158	280-137780-B-8
22-Jun-20	19:40	159	280-137780-B-9
22-Jun-20	19:42	160	280-137780-B-10
22-Jun-20	19:44	0	Rinse
22-Jun-20	19:46	0	Read Baseline
22-Jun-20	19:48	107	CCV 5000 ppb
22-Jun-20	19:50	105	CCVL 1000 ppb
22-Jun-20	19:52	0	CCB

Result path	C:\FLOW_4\062220.RST
Sample table path	C:\FLOW_4\062220.tbl
Method path	C:\FLOW_4\nox.mth
Date acquired	22-Jun-20
Time acquired	21:35

Date	Time	Cup	Name
22-Jun-20	19:54	0	Read Baseline
22-Jun-20	19:56	107	LCS
22-Jun-20	19:58	0	MB
22-Jun-20	20:00	201	280-137780-B-11
22-Jun-20	20:02	202	ms 280-137780-B-11
22-Jun-20	20:04	203	msd 280-137780-B-11
22-Jun-20	20:06	204	280-137780-B-12
22-Jun-20	20:08	205	280-137780-B-13
22-Jun-20	20:10	206	280-137780-B-14
22-Jun-20	20:12	207	280-137736-C-3
22-Jun-20	20:14	208	280-137736-C-4
22-Jun-20	20:16	0	Rinse
22-Jun-20	20:18	0	Read Baseline
22-Jun-20	20:20	107	CCV 5000 ppb
22-Jun-20	20:22	105	CCVL 1000 ppb
22-Jun-20	20:24	0	CCB
22-Jun-20	20:26	0	Read Baseline
22-Jun-20	20:28	209	280-137736-C-5
22-Jun-20	20:30	210	280-137736-C-6
22-Jun-20	20:32	211	280-137736-C-7
22-Jun-20	20:34	212	280-137736-C-8
22-Jun-20	20:36	213	280-137736-C-9
22-Jun-20	20:38	214	ms 280-137736-C-9
22-Jun-20	20:40	215	msd 280-137736-C-9
22-Jun-20	20:42	216	280-137736-C-10
22-Jun-20	20:44	217	280-137736-C-11
22-Jun-20	20:46	218	280-137736-C-12
22-Jun-20	20:48	0	Rinse
22-Jun-20	20:50	0	Read Baseline
22-Jun-20	20:52	107	CCV 5000 ppb
22-Jun-20	20:54	105	CCVL 1000 ppb
22-Jun-20	20:56	0	CCB
22-Jun-20	20:58	0	Read Baseline
22-Jun-20	21:00	219	280-137736-C-13
22-Jun-20	21:02	220	280-137736-C-14
22-Jun-20	21:04	221	280-137736-C-15
22-Jun-20	21:06	222	280-137736-C-16
22-Jun-20	21:08	223	280-137736-C-17
22-Jun-20	21:10	224	d
22-Jun-20	21:12	225	d
22-Jun-20	21:14	226	d
22-Jun-20	21:16	227	d
22-Jun-20	21:18	0	Rinse
22-Jun-20	21:20	0	Read Baseline
22-Jun-20	21:22	107	CCV 5000 ppb
22-Jun-20	21:24	105	CCVL 1000 ppb
22-Jun-20	21:26	0	CCB
22-Jun-20	21:28	0	Read Baseline

Run Results Report

Facility Name	
Facility Location	
Department	
Operator Name	svc
Operator ID	svc
Platform	FS III/IV/3100
Software Rev Code	240
Data system ID	54
Result path	C:\FLOW_4\062220.RST
Sample table path	C:\FLOW_4\062220.tbl
Method path	C:\FLOW_4\nox.mth
Date acquired	22-Jun-20
Time acquired	21:35

	Nitrate as N					
Name	Response	Calc [ppb]	Flags	Mean Response	Mean Calc [ppb]	
SYNC	2291964	9913.786				
Carryover	7858	8.815				
Carryover	523	-22.995	LO			
(Statistics)				4191	-7.090	N
read baseline	0	-25.262	BL			
Cal 0.00 ppb	357	-23.715	LO			
Cal 50.0 ppb	10876	21.900				
Cal 100 ppb	21794	69.248				
Cal 500 ppb	112754	463.694				
Cal 1000 ppb	231846	980.134				
Cal 2500 ppb	601976	2585.194				
Cal 5000 ppb	1168973	5043.959				
Cal 7500 ppb	1780183	7694.458				
Cal 10000 ppb	2269214	9815.127				
Blank	-724	-28.400	LO			
Read Baseline	0	-25.262	BL			
5000 PPB NO2	1151879	4969.835				
ICV 5000 PPB	1158720	4999.500				
ICV 2000 PPB	484252	2074.684				
ICB	-220	-26.214	LO			
Read Baseline	0	-25.262	BL			
LCS	1159385	5002.384				
MB	-867	-29.023	LO			
280-137702-C-1	7536	7.416				
ms 280-137702-C-1	950245	4095.453				
msd 280-137702-C-1	938886	4046.192				
280-137702-C-2	965069	41597.348				
280-137702-C-3	886427	38187.059				
280-137702-C-4	439508	1880.653				
280-137702-C-5	1321449	5705.168				
280-137702-C-6	1357684	5862.303				
280-137702-C-7	-164	-25.973	LO			
280-137702-C-8	623600	2678.966				
Rinse	-481	-27.350	LO			
Read Baseline	0	-25.262	BL			
CCV 5000 ppb	1169353	5045.607				
CCVL 1000 ppb	244907	1036.773				
CCB	201	-24.392	LO			
Read Baseline	0	-25.262	BL			
280-137702-C-9	1268	-19.764	LO			
280-137702-C-10	-751	-28.518	LO			
280-137702-C-14	722	-22.133	LO			
ms 280-137702-C-14	745226	3206.391				
msd 280-137702-C-14	745476	3207.475				
280-137702-C-11	-346	-26.700	LO			

Result path	C:\FLOW_4\062220.RST
Sample table path	C:\FLOW_4\062220.tbl
Method path	C:\FLOW_4\nox.mth
Date acquired	22-Jun-20
Time acquired	21:35

	Nitrate as N				
Name	Response	Calc [ppb]	Flags	Mean Response	Mean Calc [ppb]
280-137702-C-12	923	-21.260	LO		
280-137702-C-13	-1010	-29.641	LO		
280-137702-C-15	80929	325.686			
280-137702-C-16	1353430	11687.709			
Rinse	-1449	-31.544	LO		
Read Baseline	0	-25.262	BL		
CCV 5000 ppb	1162661	5016.591			
CCVL 1000 ppb	245275	1038.367			
CCB	650	-22.441	LO		
Read Baseline	0	-25.262	BL		
280-137702-C-17	97942	399.461			
280-137702-C-18	-647	-28.070	LO		
280-137702-C-19	5045	-3.386	LO		
280-137702-C-21	235509	996.019			
LCS	1160584	5007.581			
MB	-814	-28.790	LO		
280-137702-C-20	3346	-10.751	LO		
ms 280-137702-C-20	825476	3554.396			
msd 280-137702-C-20	854362	3679.656			
280-137702-C-22	673811	2896.704			
Rinse	174	-24.506	LO		
Read Baseline	0	-25.262	BL		
CCV 5000 ppb	1138435	4911.534			
CCVL 1000 ppb	248179	1050.961			
CCB	442	-23.345	LO		
Read Baseline	0	-25.262	BL		
280-137702-C-23	354583	1512.377			
280-137702-C-24	360547	1538.241			
280-137702-C-25	2043836	8837.783			
280-137702-C-26	1218770	26299.520			
280-137702-C-27	1711	-17.842	LO		
280-137702-C-28	928	-21.239	LO		
280-137702-C-29	920	-21.274	LO		
280-137702-C-30	237	-24.232	LO		
280-137780-B-1	1305397	5635.560			
ms 280-137780-B-1	1952453	8441.504			
Rinse	-892	-29.130	LO		
Read Baseline	0	-25.262	BL		
CCV 5000 ppb	1146029	4944.465			
CCVL 1000 ppb	239353	1012.688			
CCB	-203	-26.141	LO		
Read Baseline	0	-25.262	BL		
msd 280-137780-B-1	1935425	8367.661			
280-137780-B-2	1299790	5611.245			
280-137780-B-3	245006	1037.198			
280-137780-B-4	538	-22.931	LO		
280-137780-B-5	1123283	4845.827			
280-137780-B-6	1063553	4586.811			
280-137780-B-7	1061394	4577.447			
280-137780-B-8	1204480	5197.937			
280-137780-B-9	1183856	5108.501			
280-137780-B-10	977650	4214.292			
Rinse	639	-22.489	LO		
Read Baseline	0	-25.262	BL		
CCV 5000 ppb	1167269	5036.571			
CCVL 1000 ppb	247282	1047.071			
CCB	688	-22.279	LO		

Result path C:\FLOW_4\062220.RST
Sample table path C:\FLOW_4\062220.tbl
Method path C:\FLOW_4\nox.mth
Date acquired 22-Jun-20
Time acquired 21:35

	Nitrate as N				
Name	Response	Calc [ppb]	Flags	Mean Response	Mean Calc [ppb]
Read Baseline	0	-25.262	BL		
LCS	1193105	5148.609			
MB	-593	-27.832	LO		
280-137780-B-11	1451216	12535.797			
ms 280-137780-B-11	2074288	17939.674			
msd 280-137780-B-11	2081813	18004.938			
280-137780-B-12	719195	15467.551			
280-137780-B-13	314672	1339.307			
280-137780-B-14	357	-23.714	LO		
280-137736-C-3	375384	40064.594			
280-137736-C-4	76851	308.002			
Rinse	300	-23.961	LO		
Read Baseline	0	-25.262	BL		
CCV 5000 ppb	1161385	5011.055			
CCVL 1000 ppb	247809	1049.354			
CCB	484	-23.162	LO		
Read Baseline	0	-25.262	BL		
280-137736-C-5	195599	822.948			
280-137736-C-6	299283	25451.441			
280-137736-C-7	301989	25686.121			
280-137736-C-8	47391	180.246			
280-137736-C-9	1568086	33873.527			
ms 280-137736-C-9	2228362	48189.867			
msd 280-137736-C-9	2236170	48359.180			
280-137736-C-10	441199	37759.750			
280-137736-C-11	638489	2743.530			
280-137736-C-12	287560	1221.736			
Rinse	882	-21.439	LO		
Read Baseline	0	-25.262	BL		
CCV 5000 ppb	1159477	5002.783			
CCVL 1000 ppb	240074	1015.813			
CCB	593	-22.689	LO		
Read Baseline	0	-25.262	BL		
280-137736-C-13	209030	881.191			
280-137736-C-14	299938	12754.117			
280-137736-C-15	-320	-26.648	LO		
280-137736-C-16	74556	298.049			
280-137736-C-17	1494143	6454.054			
d	628	-22.537	LO		
d	1962	-16.755	LO		
d	50816	195.100			
d	1063	-20.653	LO		
Rinse	22	-25.165	LO		
Read Baseline	0	-25.262	BL		
CCV 5000 ppb	1137279	4906.521			
CCVL 1000 ppb	238838	1010.452			
CCB	311	-23.914	LO		
Read Baseline	0	-25.262	BL		

Peak Table:Nitrate as N

File name: C:\FLOW_4\062220.RST
Date: 22-Jun-20
Operator: svc

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppb)	Flags
1	109	SYNC	1	SYNC	1	1	2291964	9913.786133	
2	0	Carryover	1	CO	1	1	7858	8.815122	
3	0	Carryover	2	CO	1	1	523	-22.994835	LO
B	0	read baseline	1	RB	1	1	0	-25.261940	BL
5	101	Cal 0.00 ppb	1	C	1	1	357	-23.715189	LO
6	102	Cal 50.0 ppb	1	C	1	1	10876	21.900400	
7	103	Cal 100 ppb	1	C	1	1	21794	69.247734	
8	104	Cal 500 ppb	1	C	1	1	112754	463.694061	
9	105	Cal 1000 ppb	1	C	1	1	231846	980.134155	
10	106	Cal 2500 ppb	1	C	1	1	601976	2585.193604	
11	107	Cal 5000 ppb	1	C	1	1	1168973	5043.959473	
12	108	Cal 7500 ppb	1	C	1	1	1780183	7694.458008	
13	109	Cal 10000 ppb	1	C	1	1	2269214	9815.126953	
14	0	Blank	1	BLNK	1	1	-724	-28.399614	LO
B	0	Read Baseline	1	RB	1	1	0	-25.261940	BL
16	110	5000 PPB NO2	1	U	1	1	1151879	4969.834961	
17	111	ICV 5000 PPB	1	CCV	1	1	1158720	4999.500488	
18	112	ICV 2000 PPB	1	CCV	1	1	484252	2074.683838	
19	0	ICB	1	U	1	1	-220	-26.214169	LO
B	0	Read Baseline	1	RB	1	1	0	-25.261940	BL
21	107	LCS	1	U	1	1	1159385	5002.384277	
22	0	MB	1	U	1	1	-867	-29.022804	LO
23	113	280-137702-C-1	1	U	1	1	7536	7.415790	
24	114	ms 280-137702-C-1	1	U	1	1	950245	4095.453369	
25	115	msd 280-137702-C-1	1	U	1	1	938886	4046.192383	
26	116	280-137702-C-2	1	U	10	1	965069	41597.347656	
27	117	280-137702-C-3	1	U	10	1	886427	38187.058594	
28	118	280-137702-C-4	1	U	1	1	439508	1880.652832	
29	119	280-137702-C-5	1	U	1	1	1321449	5705.168457	
30	120	280-137702-C-6	1	U	1	1	1357684	5862.302734	
31	121	280-137702-C-7	1	U	1	1	-164	-25.972649	LO
32	122	280-137702-C-8	1	U	1	1	623600	2678.965576	
33	0	Rinse	1	U	1	1	-481	-27.349819	LO
B	0	Read Baseline	1	RB	1	1	0	-25.261940	BL
35	107	CCV 5000 ppb	1	CCV	1	1	1169353	5045.607422	
36	105	CCVL 1000 ppb	1	CCV	1	1	244907	1036.772949	
37	0	CCB	1	U	1	1	201	-24.391785	LO
B	0	Read Baseline	1	RB	1	1	0	-25.261940	BL
39	123	280-137702-C-9	1	U	1	1	1268	-19.763500	LO
40	124	280-137702-C-10	1	U	1	1	-751	-28.517595	LO
41	125	280-137702-C-14	1	U	1	1	722	-22.133106	LO
42	126	ms 280-137702-C-14	1	U	1	1	745226	3206.390869	
43	127	msd 280-137702-C-14	1	U	1	1	745476	3207.474854	
44	128	280-137702-C-11	1	U	1	1	-346	-26.760458	LO
45	129	280-137702-C-12	1	U	1	1	923	-21.259501	LO
46	130	280-137702-C-13	1	U	1	1	-1010	-29.641388	LO
47	131	280-137702-C-15	1	U	1	1	80929	325.686432	
48	132	280-137702-C-16	1	U	2	1	1353430	11687.708984	
49	0	Rinse	1	U	1	1	-1449	-31.544020	LO
B	0	Read Baseline	1	RB	1	1	0	-25.261940	BL
51	107	CCV 5000 ppb	1	CCV	1	1	1162661	5016.590820	
52	105	CCVL 1000 ppb	1	CCV	1	1	245275	1038.367065	
53	0	CCB	1	U	1	1	650	-22.441181	LO
B	0	Read Baseline	1	RB	1	1	0	-25.261940	BL
55	133	280-137702-C-17	1	U	1	1	97942	399.461365	
56	134	280-137702-C-18	1	U	1	1	-647	-28.069561	LO
57	135	280-137702-C-19	1	U	1	1	5045	-3.385624	LO
58	136	280-137702-C-21	1	U	1	1	235509	996.019165	
59	107	LCS	1	U	1	1	1160584	5007.580566	
60	0	MB	1	U	1	1	-814	-28.790436	LO
61	137	280-137702-C-20	1	U	1	1	3346	-10.751082	LO
62	138	ms 280-137702-C-20	1	U	1	1	825476	3554.395752	
63	139	msd 280-137702-C-20	1	U	1	1	854362	3679.656006	
64	140	280-137702-C-22	1	U	1	1	673811	2896.703857	
65	0	Rinse	1	U	1	1	174	-24.505707	LO
B	0	Read Baseline	1	RB	1	1	0	-25.261940	BL
67	107	CCV 5000 ppb	1	CCV	1	1	1138435	4911.534180	
68	105	CCVL 1000 ppb	1	CCV	1	1	248179	1050.961182	
69	0	CCB	1	U	1	1	442	-23.344837	LO
B	0	Read Baseline	1	RB	1	1	0	-25.261940	BL

Peak	Cup	Name	R	Type	Dil	Wt		Height	Calc. (ppb)	Flags
71	141	280-137702-C-23	1	U	1	1		354583	1512.376953	
72	142	280-137702-C-24	1	U	1	1		360547	1538.241211	
73	143	280-137702-C-25	1	U	1	1		2043836	8837.783203	
74	144	280-137702-C-26	1	U	5	1		1218770	26299.519531	
75	145	280-137702-C-27	1	U	1	1		1711	-17.842329	LO
76	146	280-137702-C-28	1	U	1	1		928	-21.239445	LO
77	147	280-137702-C-29	1	U	1	1		920	-21.274494	LO
78	148	280-137702-C-30	1	U	1	1		237	-24.232254	LO
79	149	280-137780-B-1	1	U	1	1		1305397	5635.560059	
80	150	ms 280-137780-B-1	1	U	1	1		1952453	8441.503906	
81	0	Rinse	1	U	1	1		-892	-29.130291	LO
B	0	Read Baseline	1	RB	1	1		0	-25.261940	BL
83	107	CCV 5000 ppb	1	CCV	1	1		1146029	4944.465332	
84	105	CCVL 1000 ppb	1	CCV	1	1		239353	1012.687988	
85	0	CCB	1	U	1	1		-203	-26.140791	LO
B	0	Read Baseline	1	RB	1	1		0	-25.261940	BL
87	151	msd 280-137780-B-1	1	U	1	1		1935425	8367.661133	
88	152	280-137780-B-2	1	U	1	1		1299790	5611.245117	
89	153	280-137780-B-3	1	U	1	1		245006	1037.198486	
90	154	280-137780-B-4	1	U	1	1		538	-22.930918	LO
91	155	280-137780-B-5	1	U	1	1		1123283	4845.826660	
92	156	280-137780-B-6	1	U	1	1		1063553	4586.810547	
93	157	280-137780-B-7	1	U	1	1		1061394	4577.447266	
94	158	280-137780-B-8	1	U	1	1		1204480	5197.937012	
95	159	280-137780-B-9	1	U	1	1		1183856	5108.501465	
96	160	280-137780-B-10	1	U	1	1		977650	4214.291992	
97	0	Rinse	1	U	1	1		639	-22.488775	LO
B	0	Read Baseline	1	RB	1	1		0	-25.261940	BL
99	107	CCV 5000 ppb	1	CCV	1	1		1167269	5036.570801	
100	105	CCVL 1000 ppb	1	CCV	1	1		247282	1047.070923	
101	0	CCB	1	U	1	1		688	-22.278761	LO
B	0	Read Baseline	1	RB	1	1		0	-25.261940	BL
103	107	LCS	1	U	1	1		1193105	5148.608887	
104	0	MB	1	U	1	1		-593	-27.831556	LO
105	201	280-137780-B-11	1	U	2	1		1451216	12535.796875	
106	202	ms 280-137780-B-11	1	U	2	1		2074288	17939.673828	
107	203	msd 280-137780-B-11	1	U	2	1		2081813	18004.937500	
108	204	280-137780-B-12	1	U	5	1		719195	15467.550781	
109	205	280-137780-B-13	1	U	1	1		314672	1339.306641	
110	206	280-137780-B-14	1	U	1	1		357	-23.714006	LO
111	207	280-137736-C-3	1	U	25	1		375384	40064.593750	
112	208	280-137736-C-4	1	U	1	1		76851	308.002411	
113	0	Rinse	1	U	1	1		300	-23.961334	LO
B	0	Read Baseline	1	RB	1	1		0	-25.261940	BL
115	107	CCV 5000 ppb	1	CCV	1	1		1161385	5011.055176	
116	105	CCVL 1000 ppb	1	CCV	1	1		247809	1049.354248	
117	0	CCB	1	U	1	1		484	-23.162016	LO
B	0	Read Baseline	1	RB	1	1		0	-25.261940	BL
119	209	280-137736-C-5	1	U	1	1		195599	822.948242	
120	210	280-137736-C-6	1	U	20	1		299283	25451.441406	
121	211	280-137736-C-7	1	U	20	1		301989	25686.121094	
122	212	280-137736-C-8	1	U	1	1		47391	180.246155	
123	213	280-137736-C-9	1	U	5	1		1568086	33873.527344	
124	214	ms 280-137736-C-9	1	U	5	1		2228362	48189.867188	
125	215	msd 280-137736-C-9	1	U	5	1		2236170	48359.179688	
126	216	280-137736-C-10	1	U	20	1		441199	37759.750000	
127	217	280-137736-C-11	1	U	1	1		638489	2743.530029	
128	218	280-137736-C-12	1	U	1	1		287560	1221.735962	
129	0	Rinse	1	U	1	1		882	-21.438976	LO
B	0	Read Baseline	1	RB	1	1		0	-25.261940	BL
131	107	CCV 5000 ppb	1	CCV	1	1		1159477	5002.782715	
132	105	CCVL 1000 ppb	1	CCV	1	1		240074	1015.812866	
133	0	CCB	1	U	1	1		593	-22.688583	LO
B	0	Read Baseline	1	RB	1	1		0	-25.261940	BL
135	219	280-137736-C-13	1	U	1	1		209030	881.190979	
136	220	280-137736-C-14	1	U	10	1		299938	12754.117188	
137	221	280-137736-C-15	1	U	1	1		-320	-26.648417	LO
138	222	280-137736-C-16	1	U	1	1		74556	298.048553	
139	223	280-137736-C-17	1	U	1	1		1494143	6454.054199	
140	224	d	1	U	1	1		628	-22.537191	LO
141	225	d	1	U	1	1		1962	-16.754948	LO
142	226	d	1	U	1	1		50816	195.100067	
143	227	d	1	U	1	1		1063	-20.652660	LO
144	0	Rinse	1	U	1	1		22	-25.165222	LO
B	0	Read Baseline	1	RB	1	1		0	-25.261940	BL

Peak	Cup	Name	R	Type	Dil	Wt	Height	Calc. (ppb)	Flags
146	107	CCV 5000 ppb	1	CCV	1	1	1137279	4906.520508	
147	105	CCVL 1000 ppb	1	CCV	1	1	238838	1010.451782	
148	0	CCB	1	U	1	1	311	-23.913841	LO
B	0	Read Baseline	1	RB	1	1	0	-25.261940	BL

Nitrate as N:Calibration 1: Peak 5-149

File name: C:\FLOW_4\062220.RST
Date: 22-Jun-20
Operator: svc

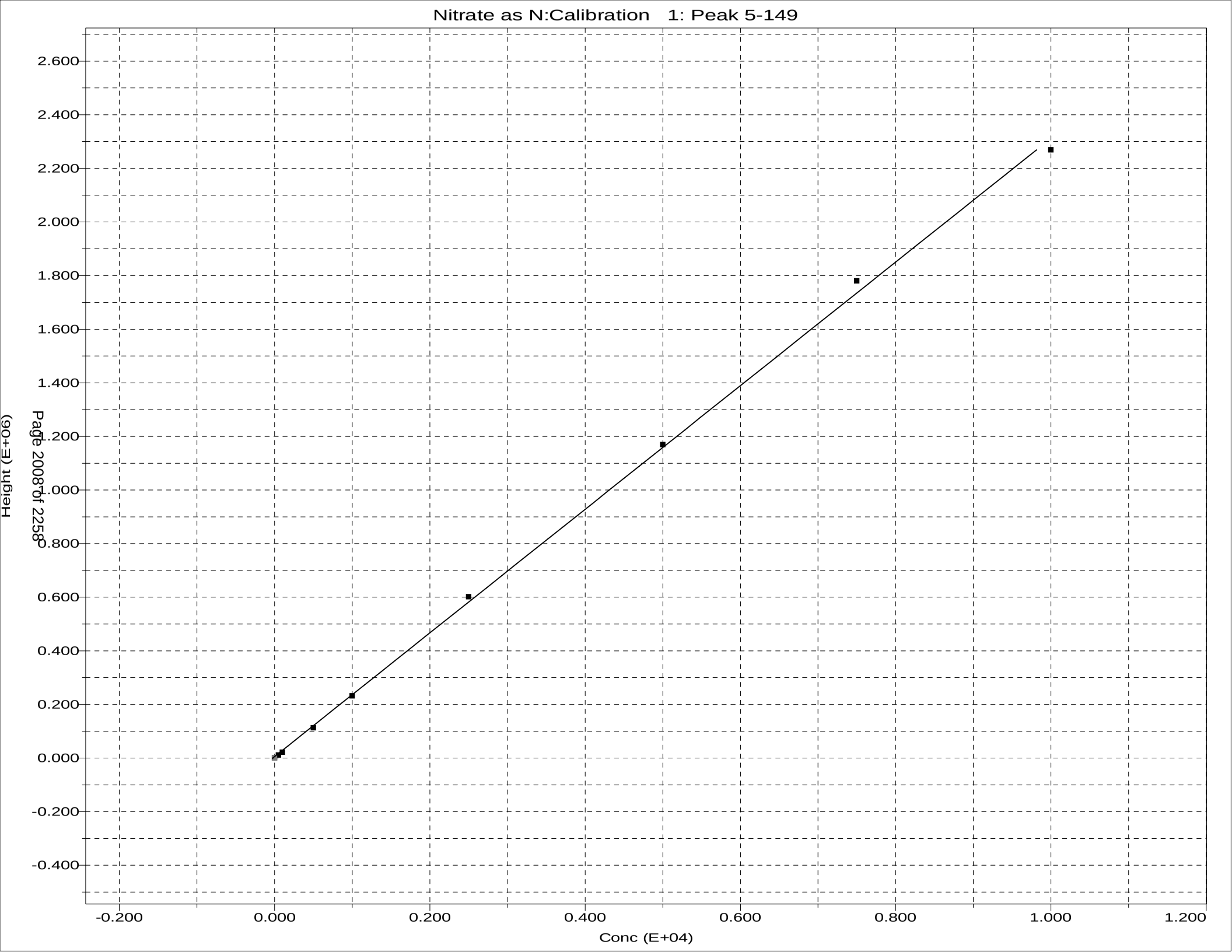
*	Name	Conc	Height
*	Cal 0.00 ppb	0.000000	356.683838
*	Cal 50.0 ppb	50.000000	10875.730469
*	Cal 100 ppb	100.000000	21794.121094
*	Cal 500 ppb	500.000000	112754.242188
*	Cal 1000 ppb	1000.000000	231846.359375
*	Cal 2500 ppb	2500.000000	601976.250000
*	Cal 5000 ppb	5000.000000	1168972.625000
*	Cal 7500 ppb	7500.000000	1780183.000000
*	Cal 10000 ppb	10000.000000	2269213.500000

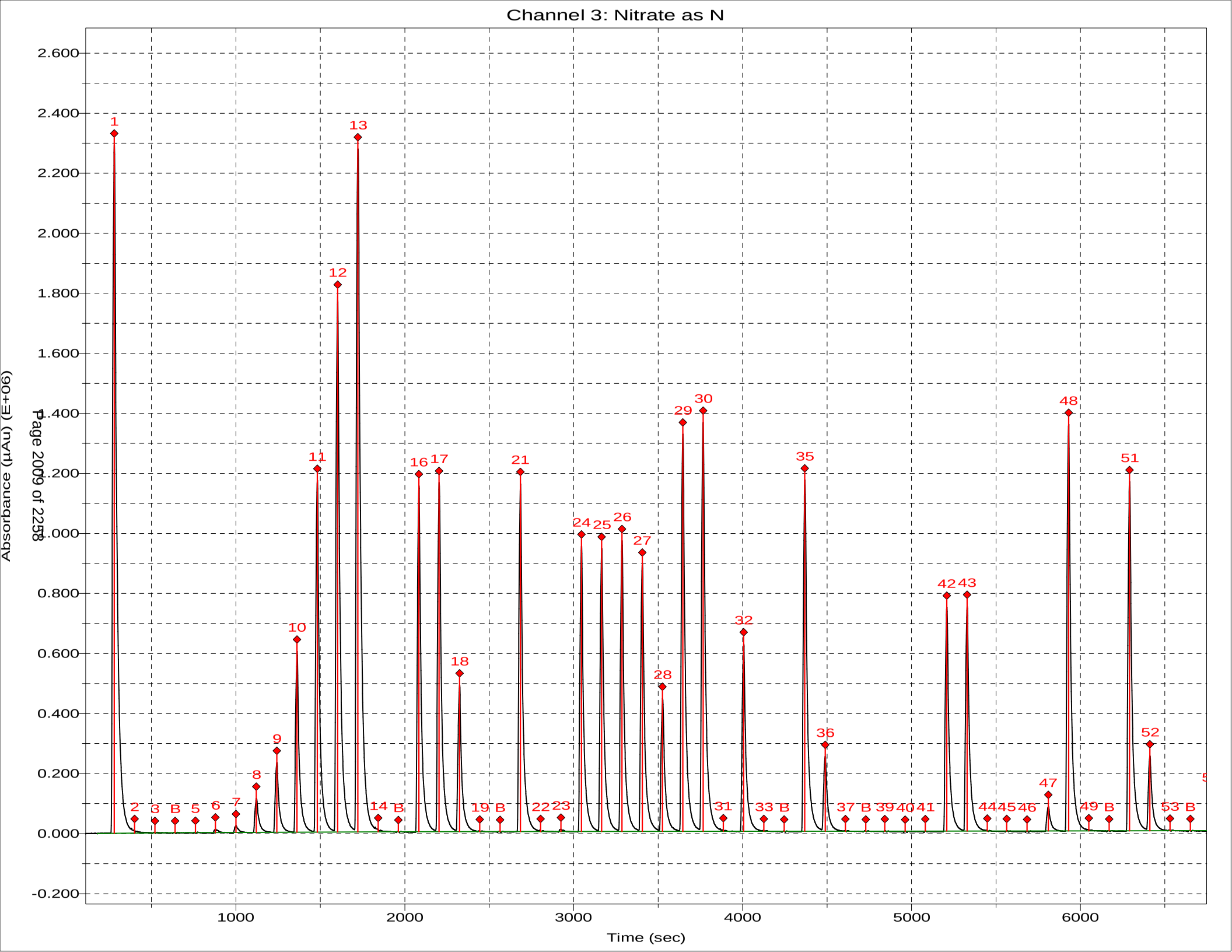
Calib Coef:
y=bx+a
a: (intercept) 5.8255e+03
b: 2.3060e+02

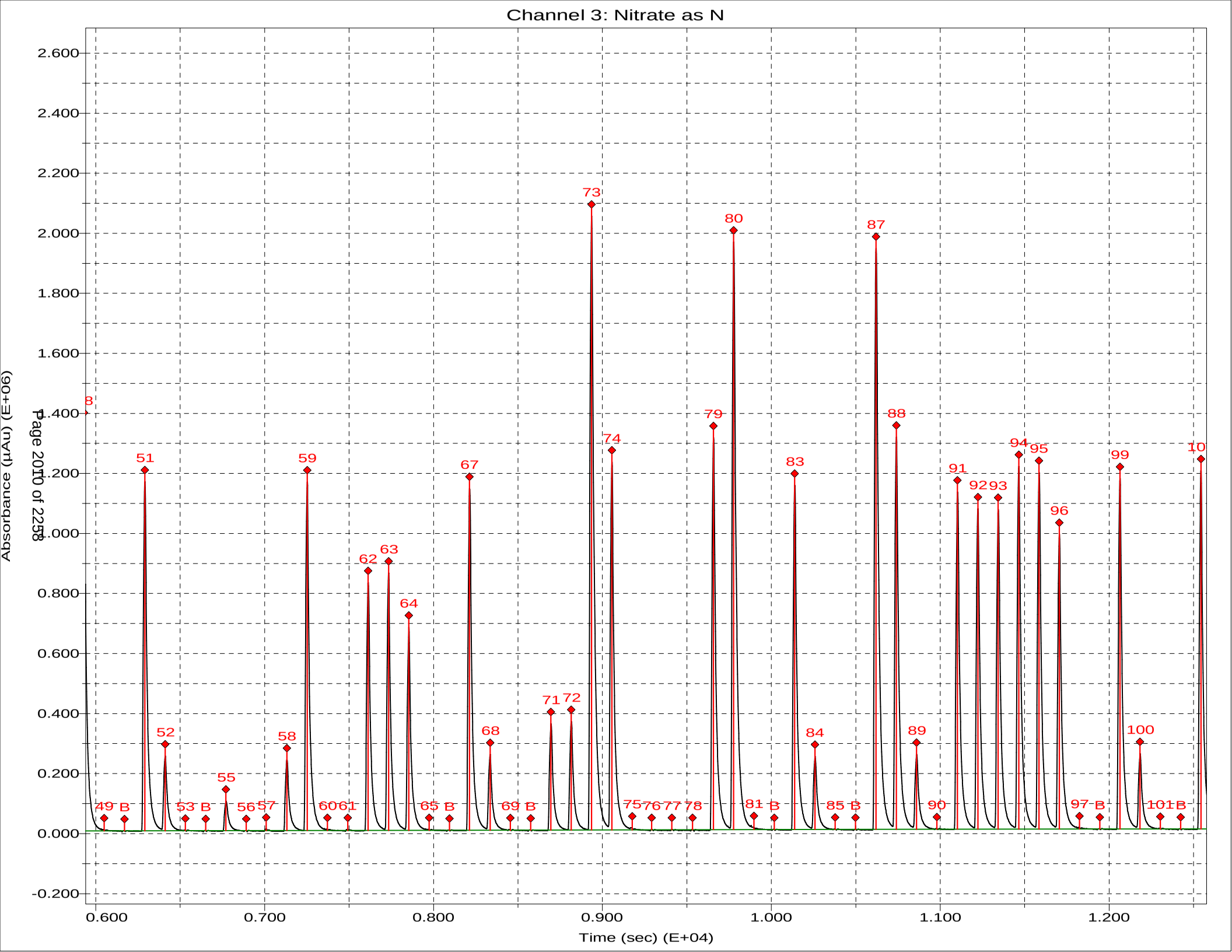
Corr Coef: 0.999612

Carryover: 0.343%

No Drift Peaks


Nitrate as N:Calibration 1: Peak 5-149
2.600
2.400
2.200
2.000
1.800
1.600
1.400
1.200
1.000
0.800
0.600
0.400
0.200
0.000
-0.200
-0.400
Height (E+06)
-0.200
0.000
0.200
0.400
0.600
0.800
1.000
1.200
Conc (E+04)


Channel 3: Nitrate as N
Absorbance (µAu) (E+06)
Time (sec)
2.600
2.400
2.200
2.000
1.800
1.600
1.400
1.200
1.000
0.800
0.600
0.400
0.200
0.000
-0.200
1000
2000
3000
4000
5000
6000
1 2 3 B 5 6 7 8 9 10 11 12 13 14 B 16 17 18 19 B 21 22 23 24 25 26 27 28 29 30 31 32 33 B 35 36 37 B 39 40 41 42 43 44 45 46 47 48 49 B 51 52 53 B


Channel 3: Nitrate as N
Absorbance (µAu) (E+06)
Time (sec) (E+04)
2.600
2.400
2.200
2.000
1.800
1.600
1.400
1.200
1.000
0.800
0.600
0.400
0.200
0.000
-0.200
0.600
0.700
0.800
0.900
1.000
1.100
1.200
8
49 B
51
52
53 B
55
56 57
58
59
60 61
62
63
64
65 B
67
68
69 B
71 72
73
74
75 76 77 78
79
80
81 B
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85 B
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88
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90
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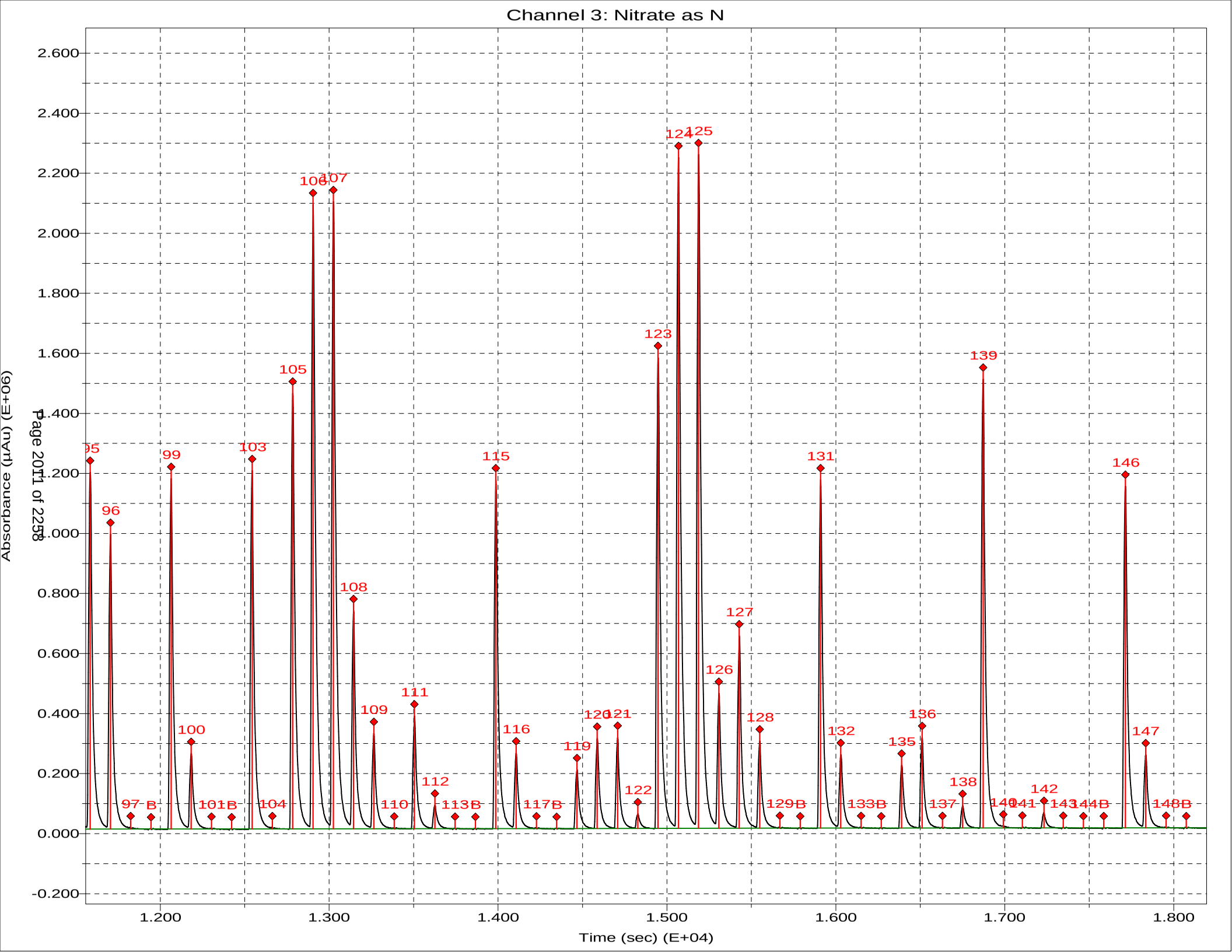
92 93
94
95
96
97 B
99
100
101 B
10


Channel 3: Nitrate as N
Absorbance (µAu) (E+06)
Time (sec) (E+04)
Page 2011 of 2258
2.600
2.400
2.200
2.000
1.800
1.600
1.400
1.200
1.000
0.800
0.600
0.400
0.200
0.000
-0.200
1.200
1.300
1.400
1.500
1.600
1.700
1.800
95
96
97 B
99
100
101B
103
104
105
106
107
108
109
110
111
112
113B
115
116
117B
119
120
121
122
123
124
125
126
127
128
129B
131
132
133B
135
136
137
138
139
140
141
142
143
144B
146
147
148B

Sample Table - 062220.tbl

File name: C:\FLOW_4\062220.TBL
Date: 22-Jun-20

Cup	Name	Type	R	Dil	Wt	Vial	Comment
109	SYNC	SYNC	1	1	1		
0	Carryover	CO	1	1	1		
0	Carryover	CO	1	1	1		
0	read baseline	RB	1	1	1		
101	Cal 0.00 ppb	C	1	1	1		
102	Cal 50.0 ppb	C	1	1	1		
103	Cal 100 ppb	C	1	1	1		
104	Cal 500 ppb	C	1	1	1		
105	Cal 1000 ppb	C	1	1	1		
106	Cal 2500 ppb	C	1	1	1		
107	Cal 5000 ppb	C	1	1	1		
108	Cal 7500 ppb	C	1	1	1		
109	Cal 10000 ppb	C	1	1	1		
0	Blank	BLNK	1	1	1		
0	Read Baseline	RB	1	1	1		
110	5000 PPB NO2	U	1	1	1		
111	ICV 5000 PPB	CCV	1	1	1		
112	ICV 2000 PPB	CCV	1	1	1		
0	ICB	U	1	1	1		
0	Read Baseline	RB	1	1	1		
107	LCS	U	1	1	1		pH
0	MB	U	1	1	1		
113	280-137702-C-1	U	1	1	1		
114	ms 280-137702-C-1	U	1	1	1		
115	msd 280-137702-C-1	U	1	1	1		
116	280-137702-C-2	U	1	10 ~~1~~	1		
117	280-137702-C-3	U	1	10 ~~1~~	1		
118	280-137702-C-4	U	1	1	1		
119	280-137702-C-5	U	1	1 ~~2 5 1~~	1		
120	280-137702-C-6	U	1	1	1		
121	280-137702-C-7	U	1	1	1		
122	280-137702-C-8	U	1	1	1		
0	Rinse	U	1	1	1		
0	Read Baseline	RB	1	1	1		
107	CCV 5000 ppb	CCV	1	1	1		
105	CCVL 1000 ppb	CCV	1	1	1		
0	CCB	U	1	1	1		
0	Read Baseline	RB	1	1	1		
123	280-137702-C-9	U	1	1	1		
124	280-137702-C-10	U	1	1	1		
125	280-137702-C-14	U	1	1	1		
126	ms 280-137702-C-14	U	1	1	1		
127	msd 280-137702-C-14	U	1	1	1		
128	280-137702-C-11	U	1	1	1		
129	280-137702-C-12	U	1	1	1		
130	280-137702-C-13	U	1	1	1		
131	280-137702-C-15	U	1	1	1		
132	280-137702-C-16	U	1	2 ~~1~~	1		
0	Rinse	U	1	1	1		
0	Read Baseline	RB	1	1	1		
107	CCV 5000 ppb	CCV	1	1	1		
105	CCVL 1000 ppb	CCV	1	1	1		
0	CCB	U	1	1	1		
0	Read Baseline	RB	1	1	1		
133	280-137702-C-17	U	1	1	1		
134	280-137702-C-18	U	1	1	1		

Cup	Name	Type	R	Dil	Wt	Vial	Comment
135	280-137702-C-19	U	1	1	1		
136	280-137702-C-21	U	1	1	1		
107	LCS	U	1	1	1		
0	MB	U	1	1	1		
137	280-137702-C-20	U	1	1	1		
138	ms 280-137702-C-20	U	1	1	1		
139	msd 280-137702-C-20	U	1	1	1		
140	280-137702-C-22	U	1	1	1		
0	Rinse	U	1	1	1		
0	Read Baseline	RB	1	1	1		
107	CCV 5000 ppb	CCV	1	1	1		
105	CCVL 1000 ppb	CCV	1	1	1		
0	CCB	U	1	1	1		
0	Read Baseline	RB	1	1	1		
141	280-137702-C-23	U	1	1	1		
142	280-137702-C-24	U	1	1	1		
143	280-137702-C-25	U	1	1	1		
144	280-137702-C-26	U	1	5	1		
145	280-137702-C-27	U	1	1	1		
146	280-137702-C-28	U	1	1	1		
147	280-137702-C-29	U	1	1	1		
148	280-137702-C-30	U	1	1	1		
149	280-137780-B-1	U	1	1	1		
150	ms 280-137780-B-1	U	1	1	1		
0	Rinse	U	1	1	1		
0	Read Baseline	RB	1	1	1		
107	CCV 5000 ppb	CCV	1	1	1		
105	CCVL 1000 ppb	CCV	1	1	1		
0	CCB	U	1	1	1		
0	Read Baseline	RB	1	1	1		
151	msd 280-137780-B-1	U	1	1	1		
152	280-137780-B-2	U	1	1	1		
153	280-137780-B-3	U	1	1	1		
154	280-137780-B-4	U	1	1	1		
155	280-137780-B-5	U	1	1	1		
156	280-137780-B-6	U	1	1	1		
157	280-137780-B-7	U	1	1	1		
158	280-137780-B-8	U	1	1	1		
159	280-137780-B-9	U	1	1	1		
160	280-137780-B-10	U	1	1	1		
0	Rinse	U	1	1	1		
0	Read Baseline	RB	1	1	1		
107	CCV 5000 ppb	CCV	1	1	1		
105	CCVL 1000 ppb	CCV	1	1	1		
0	CCB	U	1	1	1		
0	Read Baseline	RB	1	1	1		
107	LCS	U	1	1	1		
0	MB	U	1	1	1		
201	280-137780-B-11	U	1	2	1		
202	ms 280-137780-B-11	U	1	2	1		
203	msd 280-137780-B-11	U	1	2	1		
204	280-137780-B-12	U	1	5	1		
205	280-137780-B-13	U	1	1	1		
206	280-137780-B-14	U	1	1	1		
207	280-137736-C-3	U	1	25	1		
208	280-137736-C-4	U	1	1	1		
0	Rinse	U	1	1	1		
0	Read Baseline	RB	1	1	1		
107	CCV 5000 ppb	CCV	1	1	1		
105	CCVL 1000 ppb	CCV	1	1	1		

Cup	Name	Type	R	Dil	Wt	Vial	Comment
0	CCB	U	1	1	1		
0	Read Baseline	RB	1	1	1		
209	280-137736-C-5	U	1	1	1		
210	280-137736-C-6	U	1	20	1		
211	280-137736-C-7	U	1	20	1		
212	280-137736-C-8	U	1	1	1		
213	280-137736-C-9	U	1	5	1		
214	ms 280-137736-C-9	U	1	5	1	1	
215	msd 280-137736-C-9	U	1	5	1	1	
216	280-137736-C-10	U	1	20	1		
217	280-137736-C-11	U	1	1	1		
218	280-137736-C-12	U	1	1	1		
0	Rinse	U	1	1	1		
0	Read Baseline	RB	1	1	1		
107	CCV 5000 ppb	CCV	1	1	1		
105	CCVL 1000 ppb	CCV	1	1	1		
0	CCB	U	1	1	1		
0	Read Baseline	RB	1	1	1		
219	280-137736-C-13	U	1	1	1		
220	280-137736-C-14	U	1	10	1		
221	280-137736-C-15	U	1	1	1		
222	280-137736-C-16	U	1	1	1		
223	280-137736-C-17	U	1	1	1		
224	d	U	1	1	1		
225	d	U	1	1	1		
226	d	U	1	1	1		
227	d	U	1	1	1		
0	Rinse	U	1	1	1		
0	Read Baseline	RB	1	1	1		
107	CCV 5000 ppb	CCV	1	1	1		
105	CCVL 1000 ppb	CCV	1	1	1		
0	CCB	U	1	1	1		
0	Read Baseline	RB	1	1	1		

Sulfide by Titration

Analyst:	SAH	SOP Information:	
Date:	6/19/2020	Number:	91
Titration Solutions		**Calibration Information**	
Solution 1:	Iodine	Source/Ver-Lot#:	INT_01738
TALS ID	Iod_00257	Prep Date:	6/8/2020
Normality:	0.025	Made By:	SAH
Solution 2:	sodium thiosulfate	Concentration:	1084
TALS ID	Na Thio_00166	Expiration Date:	9/8/2020
Normality:	0.025		
	Starch Indicator		
TALS ID	Starch Ind_00062		

ICV Information	
Source/Ver-Lot#:	INT_01685
Prep Date:	6/8/2020
Made By:	SAH
Concentration:	916
Expiration Date:	9/8/2020

	CAL Volume	Buret Start	Buret End	mL Iodine	Final mL	Conc mg/L
CAL	5	0.00	6.20	20	6.20	1104.000
CAL	5	6.20	12.90	20	6.70	1064.000

For SM4500 S2 D colorimetric

	CAL Volume	Buret Start	Buret End	mL Iodine	Final mL	Conc mg/L
ICV	5	0.00	8.40	20	8.40	928.000
ICV	5	8.40	17.10	20	8.70	904.000

(3)

1	0	2.9
2	2.7	3.9
3 SAH 06/19/20	~~2.9~~ 3.9	4.9
4	4.7	7.6
5	7.6	10.4
6	10.4	11.4
7	11.4	12.3
8	12.3	13.3
9	13.3	14.3
10	14.3	15.2
11	15.2	16.2
12	16.2	17.2
13	17.2	18.2
14	18.2	20.8
15	20.8	21.8
16	21.8	22.7
17	22.7	23.7
18	0	1

ML
3 ~~scoops~~ #14
SAH
06/19/20

TALS Raw Data Report

Job Number: 280-137681-1
LIMS Batch: 499425
Equipment: NOEQUIP

Laboratory: Eurofins TestAmerica, Denver

RS# 1 Lab ID: **LCS 280-499423/1-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		16.8 mg/L	mg/L	77	44 110		
Sulfide as H2S		17.85 mg/L	mg/L				

RS# 2 Lab ID: **MB 280-499423/2-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

RS# 3 Lab ID: **280-137702-E-23-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

RS# 4 Lab ID: **280-137702-E-23-B MS** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		18.4 mg/L	mg/L	85	44 110		
Sulfide as H2S		19.55 mg/L	mg/L				

RS# 5 Lab ID: **280-137702-E-23-C MSD** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		17.6 mg/L	mg/L	81	44 110	4	20
Sulfide as H2S		18.7 mg/L	mg/L				

RS# 12 Lab ID: **280-137681-I-1-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

TALS Raw Data Report

Job Number: 280-137692-1
LIMS Batch: 499425
Equipment: NOEQUIP

Laboratory: Eurofins TestAmerica, Denver

RS# 1 Lab ID: **LCS 280-499423/1-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		16.8 mg/L	mg/L	77	44 110		
Sulfide as H2S		17.85 mg/L	mg/L				

RS# 2 Lab ID: **MB 280-499423/2-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

RS# 3 Lab ID: **280-137702-E-23-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

RS# 4 Lab ID: **280-137702-E-23-B MS** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		18.4 mg/L	mg/L	85	44 110		
Sulfide as H2S		19.55 mg/L	mg/L				

RS# 5 Lab ID: **280-137702-E-23-C MSD** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		17.6 mg/L	mg/L	81	44 110	4	20
Sulfide as H2S		18.7 mg/L	mg/L				

RS# 17 Lab ID: **280-137692-F-1-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

RS# 18 Lab ID: **280-137692-D-2-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

TALS Raw Data Report

Job Number: 280-137702-1
LIMS Batch: 499425
Equipment: NOEQUIP

Laboratory: Eurofins TestAmerica, Denver

RS# 1 Lab ID: **LCS 280-499423/1-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		16.8 mg/L	mg/L	77	44 110		
Sulfide as H2S		17.85 mg/L	mg/L				

RS# 2 Lab ID: **MB 280-499423/2-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	1.9 U mg/L				
Sulfide as H2S		0 mg/L	2.0 U mg/L				

RS# 3 Lab ID: **280-137702-E-23-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	1.9 U mg/L				
Sulfide as H2S		0 mg/L	2.0 U mg/L				

RS# 4 Lab ID: **280-137702-E-23-B MS** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		18.4 mg/L	mg/L	85	44 110		
Sulfide as H2S		19.55 mg/L	mg/L				

RS# 5 Lab ID: **280-137702-E-23-C MSD** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		17.6 mg/L	mg/L	81	44 110	4	20
Sulfide as H2S		18.7 mg/L	mg/L				

RS# 6 Lab ID: **280-137702-E-24-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	1.9 U mg/L				
Sulfide as H2S		0 mg/L	2.0 U mg/L				

RS# 7 Lab ID: **280-137702-E-25-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0.8 mg/L	0.80 J mg/L				
Sulfide as H2S		0.85 mg/L	0.85 J mg/L				

RS# 8 Lab ID: **280-137702-E-26-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	1.9 U mg/L				
Sulfide as H2S		0 mg/L	2.0 U mg/L				

RS# 9 Lab ID: **280-137702-E-13-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	1.9 U mg/L				
Sulfide as H2S		0 mg/L	2.0 U mg/L				

RS# 10 Lab ID: **280-137702-E-14-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0.8 mg/L	0.80 J mg/L				
Sulfide as H2S		0.85 mg/L	0.85 J mg/L				

TALS Raw Data Report

RS# 11 Lab ID: **280-137702-E-21-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	1.9 U mg/L				
Sulfide as H2S		0 mg/L	2.0 U mg/L				

TALS Raw Data Report

Job Number: 280-137705-1
LIMS Batch: 499425
Equipment: NOEQUIP

Laboratory: Eurofins TestAmerica, Denver

RS# 1 Lab ID: **LCS 280-499423/1-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		16.8 mg/L	mg/L	77	44 110		
Sulfide as H2S		17.85 mg/L	mg/L				

RS# 2 Lab ID: **MB 280-499423/2-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

RS# 3 Lab ID: **280-137702-E-23-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

RS# 4 Lab ID: **280-137702-E-23-B MS** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		18.4 mg/L	mg/L	85	44 110		
Sulfide as H2S		19.55 mg/L	mg/L				

RS# 5 Lab ID: **280-137702-E-23-C MSD** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		17.6 mg/L	mg/L	81	44 110	4	20
Sulfide as H2S		18.7 mg/L	mg/L				

RS# 13 Lab ID: **280-137705-M-5-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

TALS Raw Data Report

Job Number: 280-137707-1
LIMS Batch: 499425
Equipment: NOEQUIP

Laboratory: Eurofins TestAmerica, Denver

RS# 1 Lab ID: **LCS 280-499423/1-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		16.8 mg/L	mg/L	77	44 110		
Sulfide as H2S		17.85 mg/L	mg/L				

RS# 2 Lab ID: **MB 280-499423/2-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

RS# 3 Lab ID: **280-137702-E-23-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

RS# 4 Lab ID: **280-137702-E-23-B MS** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		18.4 mg/L	mg/L	85	44 110		
Sulfide as H2S		19.55 mg/L	mg/L				

RS# 5 Lab ID: **280-137702-E-23-C MSD** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		17.6 mg/L	mg/L	81	44 110	4	20
Sulfide as H2S		18.7 mg/L	mg/L				

RS# 14 Lab ID: **280-137707-M-1-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		3.2 mg/L	3.2 J mg/L				
Sulfide as H2S		3.4 mg/L	3.4 J mg/L				

RS# 15 Lab ID: **280-137707-M-2-A** Inj Date: 6/19/2020 12:54:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

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Titration Data Review Checklist

LIMS Batch Number: 499 425	**Method (circle one):**	**QC Type (circle):**
Analyst/1st Reviewer: BWH	**2310B 2320B 2340C**	**Standard DoD QAPP Other**
Date: 06/19/2020	**4500 S2 F 4500 SO3 B 9030B/9034**	
Matrix (circle): **Water Solid**	**Automated or Manual (circle one)**	**Instrument ID (circle one if applicable):** N/A **AT2 AT3**

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
A. Sample Storage and Pretreatment				
1. Is sample pH verified and documented prior to analysis? (if required)	✓		✓	
2. For samples requiring pH adjustment is the amount of acid/base used documented?	✓		✓	If no, list details:
3. Are samples analyzed within the required hold time?	✓		✓	NCM:
4. Pre-treatment reagents used to remove interferences are documented.	✓		✓	
B. Calibration / Instrument				
5. Was the normality of the titrant verified and found acceptable?	✓		✓	Comments:
6. For potentiometric titration, the pH meter is calibrated with 5 buffers bracketing range of samples and QC.	✓		✓	Comments:
7. Calibration standards are analyzed at the beginning and end of the analytical sequence and after every 10 sample analyses. (samples/dilutions/reanalyses).	✓		✓	Comments:
8. Calibrations standards (ICV/CCV) are within 90-110% recovery.	✓		✓	
C. Sample and Batch QC				
9. Blanks are analyzed at the beginning, end and after every 10 sample analyses in the sequence.	✓		✓	
10. Results of blank analyses (MB, ICB, CCB) are < ½ RL (<RL for alkalinity unless DoD)	✓		✓	□ No analyte > ½ RL in associated samples □ Sample results >10x blank
11. A standard from a second source (SRM, CRM, LCS) is included in the analytical sequence.	✓		✓	
12. The recovery of the 2nd source material falls within 90-110% or manufacturer's limits.	✓		✓	
13. Samples analyses are bracketing by acceptable CCV/CCBs.	✓		✓	□ No analyte > RL in associated samples □ Sample results >10x blank □ Sample results qualified
14. MS/MSD analyzed at required frequency and recoveries within limits. (If recoveries out of limits, verify not due to lab error) (Required for 2340C, 4500 S2 F, 9030B/9034)	✓		✓	□ Non-conformance (NCM) added □ Sample results >4X spike conc.
15. Duplicate analyzed at required frequency and RPD within limits. (Required for 2310B, 2320B, 4500 SO3 B)	✓		✓	□ Non-conformance (NCM) added □ Sample results ND or <2X RL

Sulfide by Titration

Analyst:	SAH	SOP Information:	
Date:	6/12/2020	Number:	91

Titration Solutions		Calibration Information	
Solution 1:	Iodine	Source/Ver-Lot#:	INT_01738
TALS ID	Iod_00257	Prep Date:	6/8/2020
Normality:	0.025	Made By:	SAH
Solution 2:	sodium thiosulfate	Concentration:	1108
TALS ID	Na Thio_00166	Expiration Date:	9/8/2020
Normality:	0.025		
	Starch Indicator		
TALS ID	Starch Ind_00062		

ICV Information	
Source/Ver-Lot#:	INT_01685
Prep Date:	6/8/2020
Made By:	SAH
Concentration:	920
Expiration Date:	9/8/2020

	CAL Volume	Buret Start	Buret End	mL Iodine	Final mL	Conc mg/L
CAL	5	0.00	6.20	20	6.20	1104.000
CAL	5	6.20	12.30	20	6.10	1112.000

For SM4500 S2 D colorimetric

	CAL Volume	Buret Start	Buret End	mL Iodine	Final mL	Conc mg/L
ICV	5	0.00	8.40	20	8.40	928.000
ICV	5	8.40	17.00	20	8.60	912.000

4

Sample #	Start	End
1	0.1	2.9
2	2.9	3.9
3	3.9	4.9
4	4.9	7.9
5	7.9	11.6
6	11.6	12.6
7	12.6	13.5
8	13.5	14.5
9	14.5	15.5
10	15.5	16.4
11	16.4	17.3 BWH 06/19/20
12	17.3	18.~~4~~ 3
13	18.3	19.4
14	19.4	20.3
15	20.3	21.2
16	21.2	22.2
17	22.2	23.2
18	23.2	24.3

TALS Raw Data Report

Job Number: 280-137705-1
LIMS Batch: 499485
Equipment: NOEQUIP

Laboratory: Eurofins TestAmerica, Denver

RS# 1 Lab ID: **LCS 280-499428/1-A** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		17.6 mg/L	mg/L	81	44 110		
Sulfide as H2S		18.7 mg/L	mg/L				

RS# 2 Lab ID: **MB 280-499428/2-A** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

RS# 3 Lab ID: **280-137730-C-2-A** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

RS# 4 Lab ID: **280-137730-C-2-B MS** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		16 mg/L	mg/L	74	44 110		
Sulfide as H2S		17 mg/L	mg/L				

RS# 5 Lab ID: **280-137730-C-2-C MSD** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		10.4 mg/L	mg/L	48	44 110	42	20
Sulfide as H2S		11.05 mg/L	mg/L				

RS# 7 Lab ID: **280-137705-M-1-A** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0.8 mg/L	0.80 J mg/L				
Sulfide as H2S		0.85 mg/L	0.85 J mg/L				

RS# 18 Lab ID: **280-137705-M-2-A** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		-0.8 mg/L	mg/L				
Sulfide as H2S		-0.85 mg/L	mg/L				

TALS Raw Data Report

Job Number: 280-137729-1
LIMS Batch: 499485
Equipment: NOEQUIP

Laboratory: Eurofins TestAmerica, Denver

RS# 1 Lab ID: **LCS 280-499428/1-A** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		17.6 mg/L	mg/L	81	44 110		
Sulfide as H2S		18.7 mg/L	mg/L				

RS# 2 Lab ID: **MB 280-499428/2-A** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

RS# 3 Lab ID: **280-137730-C-2-A** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

RS# 4 Lab ID: **280-137730-C-2-B MS** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		16 mg/L	mg/L	74	44 110		
Sulfide as H2S		17 mg/L	mg/L				

RS# 5 Lab ID: **280-137730-C-2-C MSD** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		10.4 mg/L	mg/L	48	44 110	42	20
Sulfide as H2S		11.05 mg/L	mg/L				

RS# 12 Lab ID: **280-137729-Q-1-A** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

TALS Raw Data Report

Job Number: 280-137730-1
LIMS Batch: 499485
Equipment: NOEQUIP

Laboratory: Eurofins TestAmerica, Denver

RS# 1 Lab ID: **LCS 280-499428/1-A** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		17.6 mg/L	mg/L	81	44 110		
Sulfide as H2S		18.7 mg/L	mg/L				

RS# 2 Lab ID: **MB 280-499428/2-A** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	1.9 U mg/L				
Sulfide as H2S		0 mg/L	2.0 U mg/L				

RS# 3 Lab ID: **280-137730-C-2-A** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	1.9 U mg/L				
Sulfide as H2S		0 mg/L	2.0 U mg/L				

RS# 4 Lab ID: **280-137730-C-2-B MS** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		16 mg/L	mg/L	74	44 110		
Sulfide as H2S		17 mg/L	mg/L				

RS# 5 Lab ID: **280-137730-C-2-C MSD** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		10.4 mg/L	mg/L	48	44 110	42	20
Sulfide as H2S		11.05 mg/L	mg/L				

RS# 13 Lab ID: **280-137730-C-3-A** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		-0.8 mg/L	1.9 U mg/L				
Sulfide as H2S		-0.85 mg/L	2.0 U mg/L				

RS# 14 Lab ID: **280-137730-C-4-A** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		999999968 mg/L	0.80 J mg/L				
Sulfide as H2S		999999966 mg/L	0.85 J mg/L				

RS# 15 Lab ID: **280-137730-C-5-A** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0.8 mg/L	0.80 J mg/L				
Sulfide as H2S		0.85 mg/L	0.85 J mg/L				

TALS Raw Data Report

Job Number: 280-137733-1
LIMS Batch: 499485
Equipment: NOEQUIP

Laboratory: Eurofins TestAmerica, Denver

RS# 1 Lab ID: **LCS 280-499428/1-A** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		17.6 mg/L	mg/L	81	44 110		
Sulfide as H2S		18.7 mg/L	mg/L				

RS# 2 Lab ID: **MB 280-499428/2-A** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

RS# 3 Lab ID: **280-137730-C-2-A** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

RS# 4 Lab ID: **280-137730-C-2-B MS** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		16 mg/L	mg/L	74	44 110		
Sulfide as H2S		17 mg/L	mg/L				

RS# 5 Lab ID: **280-137730-C-2-C MSD** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		10.4 mg/L	mg/L	48	44 110	42	20
Sulfide as H2S		11.05 mg/L	mg/L				

RS# 16 Lab ID: **280-137733-A-1-A** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

RS# 17 Lab ID: **280-137733-A-2-A** Inj Date: 6/19/2020 5:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

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Titration Data Review Checklist

LIMS Batch Number: 499485	**Method (circle one):**	**QC Type (circle):**
Analyst/1st Reviewer: BWH	**2310B 2320B 2340C**	**Standard DoD QAPP Other**
Date: 06/19/2020	**4500 S2 F 4500 SO3 B 9030B/9034**	
Matrix (circle): **Water Solid**	**Automated or Manual (circle one)**	**Instrument ID (circle one if applicable):** N/A
		AT2 AT3

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
A. Sample Storage and Pretreatment				
1. Is sample pH verified and documented prior to analysis? (if required)	✓		✓	
2. For samples requiring pH adjustment is the amount of acid/base used documented?	✓		✓	If no, list details:
3. Are samples analyzed within the required hold time?	✓		✓	NCM:
4. Pre-treatment reagents used to remove interferences are documented.	✓		✓	
B. Calibration / Instrument				
5. Was the normality of the titrant verified and found acceptable?	✓		✓	Comments:
6. For potentiometric titration, the pH meter is calibrated with 5 buffers bracketing range of samples and QC.	✓		✓	Comments:
7. Calibration standards are analyzed at the beginning and end of the analytical sequence and after every 10 sample analyses. (samples/dilutions/reanalyses).	✓		✓	Comments:
8. Calibrations standards (ICV/CCV) are within 90-110% recovery.	✓		✓	
C. Sample and Batch QC				
9. Blanks are analyzed at the beginning, end and after every 10 sample analyses in the sequence.	✓		✓	
10. Results of blank analyses (MB, ICB, CCB) are < ½ RL (<RL for alkalinity unless DoD)	✓		✓	□ No analyte > ½ RL in associated samples □ Sample results >10x blank
11. A standard from a second source (SRM, CRM, LCS) is included in the analytical sequence.	✓		✓	
12. The recovery of the 2nd source material falls within 90-110% or manufacturer's limits.	✓		✓	
13. Samples analyses are bracketing by acceptable CCV/CCBs.	✓		✓	□ No analyte > RL in associated samples □ Sample results >10x blank □ Sample results qualified
14. MS/MSD analyzed at required frequency and recoveries within limits. (If recoveries out of limits, verify not due to lab error) (Required for 2340C, 4500 S2 F, 9030B/9034)	✓		✓	□ Non-conformance (NCM) added □ Sample results >4X spike conc.
15. Duplicate analyzed at required frequency and RPD within limits. (Required for 2310B, 2320B, 4500 SO3 B)	✓		✓	□ Non-conformance (NCM) added □ Sample results ND or <2X RL

Sulfide by Titration

Analyst:	SAH	SOP Information:	
Date:	6/22/2020	Number:	91

Titration Solutions		Calibration Information	
Solution 1:	Iodine	Source/Ver-Lot#:	INT_01738
TALS ID	Iod_00257	Prep Date:	6/8/2020
Normality:	0.025	Made By:	SAH
Solution 2:	sodium thiosulfate	Concentration:	1144
TALS ID	Na Thio_00167	Expiration Date:	9/8/2020
Normality:	0.025		
	Starch Indicator		
TALS ID	Starch Ind_00062		

ICV Information	
Source/Ver-Lot#:	INT_01685
Prep Date:	6/8/2020
Made By:	SAH
Concentration:	1000
Expiration Date:	9/8/2020

	CAL Volume	Buret Start	Buret End	mL Iodine	Final mL	Conc mg/L
CAL	5	0.00	5.60	20	5.60	1152.000
CAL	5	5.60	11.40	20	5.80	1136.000

	CAL Volume	Buret Start	Buret End	mL Iodine	Final mL	Conc mg/L
ICV	5	11.50	18.90	20	7.40	1008.000
ICV	5	0.00	7.60	20	7.60	992.000

1	0	2.5
2	2.5	3.4
3	3.4	4.4
4	4.4	7.1
5	7.1	10.1
6	10.1	11.1
7	11.1	12.2
8	12.2	13.1
9	13.1	14.1
10	14.1	15.1
11	15.1	16.0
12	16.0	17.0
13	17.0	17.9
14	17.9	18.9
15	18.9	19.9
16	19.9	20.8
17	20.8	21.8
18	21.8	22.7

499653



TALS Raw Data Report

Job Number: 280-137736-1
LIMS Batch: 499653
Equipment: NOEQUIP

Laboratory: Eurofins TestAmerica, Denver

RS# 1 Lab ID: **LCS 280-499634/1-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		20 mg/L	mg/L	87	44 110		
Sulfide as H2S		21.25 mg/L	mg/L				

RS# 2 Lab ID: **MB 280-499634/2-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0.8 mg/L	0.800 J mg/L				
Sulfide as H2S		0.85 mg/L	0.850 J mg/L				

RS# 3 Lab ID: **280-137736-E-9-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	1.9 U mg/L				
Sulfide as H2S		0 mg/L	2.0 U mg/L				

RS# 4 Lab ID: **280-137736-E-9-D MS** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		18.4 mg/L	mg/L	80	44 110		
Sulfide as H2S		19.55 mg/L	mg/L				

RS# 5 Lab ID: **280-137736-E-9-E MSD** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		16 mg/L	mg/L	70	44 110	14	20
Sulfide as H2S		17 mg/L	mg/L				

RS# 6 Lab ID: **280-137736-E-16-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	1.9 U mg/L				
Sulfide as H2S		0 mg/L	2.0 U mg/L				

RS# 7 Lab ID: **280-137736-E-17-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide as H2S		-0.85 mg/L	2.0 U mg/L				
Sulfide		-0.8 mg/L	1.9 U mg/L				

RS# 8 Lab ID: **280-137736-E-8-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide as H2S		0.85 mg/L	0.85 J mg/L				
Sulfide		0.8 mg/L	0.80 J mg/L				

RS# 9 Lab ID: **280-137736-E-3-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide as H2S		0 mg/L	2.0 U mg/L				
Sulfide		0 mg/L	1.9 U mg/L				

RS# 10 Lab ID: **280-137736-E-4-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide as H2S		0 mg/L	2.0 U mg/L				
Sulfide		0 mg/L	1.9 U mg/L				

RS# 11 Lab ID: **280-137736-E-5-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide as H2S		0.85 mg/L	0.85 J mg/L				
Sulfide		0.8 mg/L	0.80 J mg/L				

RS# 12 Lab ID: **280-137736-E-6-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide as H2S		0 mg/L	2.0 U mg/L				
Sulfide		0 mg/L	1.9 U mg/L				

RS# 18 Lab ID: **280-137736-F-7-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide as H2S		0.85 mg/L	0.85 J mg/L				
Sulfide		0.8 mg/L	0.80 J mg/L				

TALS Raw Data Report

Job Number: 280-137740-1
LIMS Batch: 499653
Equipment: NOEQUIP

Laboratory: Eurofins TestAmerica, Denver

RS# 1 Lab ID: **LCS 280-499634/1-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		20 mg/L	mg/L	87	44 110		
Sulfide as H2S		21.25 mg/L	mg/L				

RS# 2 Lab ID: **MB 280-499634/2-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0.8 mg/L	0.800 J mg/L				
Sulfide as H2S		0.85 mg/L	0.850 J mg/L				

RS# 3 Lab ID: **280-137736-E-9-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	mg/L				
Sulfide as H2S		0 mg/L	mg/L				

RS# 4 Lab ID: **280-137736-E-9-D MS** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		18.4 mg/L	mg/L	80	44 110		
Sulfide as H2S		19.55 mg/L	mg/L				

RS# 5 Lab ID: **280-137736-E-9-E MSD** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		16 mg/L	mg/L	70	44 110	14	20
Sulfide as H2S		17 mg/L	mg/L				

RS# 16 Lab ID: **280-137740-F-1-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide as H2S		999999966 mg/L	0.85 J mg/L				
Sulfide		999999968 mg/L	0.80 J mg/L				

RS# 17 Lab ID: **280-137740-F-2-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide as H2S		0 mg/L	mg/L				
Sulfide		0 mg/L	mg/L				

TALS Raw Data Report

Job Number: 280-137797-1
LIMS Batch: 499653
Equipment: NOEQUIP

Laboratory: Eurofins TestAmerica, Denver

RS# 1 Lab ID: **LCS 280-499634/1-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		20 mg/L	mg/L	87	44 110		
Sulfide as H2S		21.25 mg/L	mg/L				

RS# 2 Lab ID: **MB 280-499634/2-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0.8 mg/L	0.800 J mg/L				
Sulfide as H2S		0.85 mg/L	0.850 J mg/L				

RS# 3 Lab ID: **280-137736-E-9-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	1.9 U mg/L				
Sulfide as H2S		0 mg/L	2.0 U mg/L				

RS# 4 Lab ID: **280-137736-E-9-D MS** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		18.4 mg/L	mg/L	80	44 110		
Sulfide as H2S		19.55 mg/L	mg/L				

RS# 5 Lab ID: **280-137736-E-9-E MSD** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		16 mg/L	mg/L	70	44 110	14	20
Sulfide as H2S		17 mg/L	mg/L				

RS# 13 Lab ID: **280-137797-E-1-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide as H2S		0.85 mg/L	0.85 J mg/L				
Sulfide		0.8 mg/L	0.80 J mg/L				

TALS Raw Data Report

Job Number: 280-137848-1
LIMS Batch: 499653
Equipment: NOEQUIP

Laboratory: Eurofins TestAmerica, Denver

RS# 1 Lab ID: **LCS 280-499634/1-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		20 mg/L	mg/L	87	44 110		
Sulfide as H2S		21.25 mg/L	mg/L				

RS# 2 Lab ID: **MB 280-499634/2-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0.8 mg/L	0.800 J mg/L				
Sulfide as H2S		0.85 mg/L	0.850 J mg/L				

RS# 3 Lab ID: **280-137736-E-9-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		0 mg/L	1.9 U mg/L				
Sulfide as H2S		0 mg/L	2.0 U mg/L				

RS# 4 Lab ID: **280-137736-E-9-D MS** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		18.4 mg/L	mg/L	80	44 110		
Sulfide as H2S		19.55 mg/L	mg/L				

RS# 5 Lab ID: **280-137736-E-9-E MSD** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide		16 mg/L	mg/L	70	44 110	14	20
Sulfide as H2S		17 mg/L	mg/L				

RS# 14 Lab ID: **280-137848-E-1-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide as H2S		0 mg/L	2.0 U mg/L				
Sulfide		0 mg/L	1.9 U mg/L				

RS# 15 Lab ID: **280-137848-E-2-A** Inj Date: 6/22/2020 12:04:00PM Dil: 1.0 Meth: 9034

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Sulfide as H2S		0 mg/L	2.0 U mg/L				
Sulfide		0 mg/L	1.9 U mg/L				

TestAmerica *Denver*

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THE LEADER IN ENVIRONMENTAL TESTING

Titration Data Review Checklist

LIMS Batch Number: 499653	**Method (circle one):**	**QC Type (circle):**
Analyst/1st Reviewer: SAH	2310B 2320B 2340C	(Standard) DoD QAPP Other
Date: 06/25/2020	4500 S2 F 4500 SO3 B (9030B/9034)	
Matrix (circle): (Water) Solid	**Automated or (Manual) (circle one)**	**Instrument ID (circle one if applicable):** AT2 AT3

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
A. Sample Storage and Pretreatment				
1. Is sample pH verified and documented prior to analysis? (if required)	✓		✓	280-137736-7 only had unpres. bottle. preserved at benchtop & NCM
2. For samples requiring pH adjustment is the amount of acid/base used documented?	N/A		✓	If no, list details: 280-137736-7 → 1ML Zn acetate 50% NaOH
3. Are samples analyzed within the required hold time?	✓		✓	NCM:
4. Pre-treatment reagents used to remove interferences are documented.	N/A		✓	
B. Calibration / Instrument				
5. Was the normality of the titrant verified and found acceptable?	✓		✓	Comments:
6. For potentiometric titration, the pH meter is calibrated with 5 buffers bracketing range of samples and QC.	N/A		✓	Comments:
7. Calibration standards are analyzed at the beginning and end of the analytical sequence and after every 10 sample analyses. (samples/dilutions/reanalyses).	N/A		✓	Comments:
8. Calibrations standards (ICV/CCV) are within 90-110% recovery.	N/A		✓	
C. Sample and Batch QC				
9. Blanks are analyzed at the beginning, end and after every 10 sample analyses in the sequence.	✓		✓	
10. Results of blank analyses (MB, ICB, CCB) are < ½ RL (<RL for alkalinity unless DoD)	✓		✓	□ No analyte > ½ RL in associated samples □ Sample results >10x blank
11. A standard from a second source (SRM, CRM, LCS) is included in the analytical sequence.	✓		✓	
12. The recovery of the 2nd source material falls within 90-110% or manufacturer's limits.	✓		✓	
13. Samples analyses are bracketing by acceptable CCV/CCBs.	N/A		✓	□ No analyte > RL in associated samples □ Sample results >10x blank □ Sample results qualified
14. MS/MSD analyzed at required frequency and recoveries within limits. (If recoveries out of limits, verify not due to lab error) (Required for 2340C, 4500 S2 F, 9030B/9034)	✓		✓	□ Non-conformance (NCM) added □ Sample results >4X spike conc.
15. Duplicate analyzed at required frequency and RPD within limits. (Required for 2310B, 2320B, 4500 SO3 B)	N/A		✓	□ Non-conformance (NCM) added □ Sample results ND or <2X RL

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
16. Are all MS/MSD RPDs <50%? Note: Excessive RPDs (>50%) require evaluation, correction or explanation.	✓		✓	□ Non-conformance (NCM) added
D. Raw Data & TALS Data Entry				
17. Raw Data	✓			
a. Unused data is clearly identified with reason	✓		✓	
b. All crossed out data is initialed and dated	✓		✓	
c. Out of control QC is clearly identified	✓		✓	
d. Any data that has a qualifier is commented on with appropriate action taken	✓		✓	
e. The first page of the run includes the filename, instrument, and analyst initials/signature	✓		✓	
f. 100% of manual calculations are verified.	✓		✓	
18. TALS Samples Tab	✓			
a. LIMS Sample IDs / Containers are correct	✓		✓	
b. Method and matrix are correct	✓		✓	
c. Date and time match raw data	✓		✓	
d. Dilutions are correct	✓		✓	
e. Correct suffix designated (where applicable)	✓		✓	
19. TALS Worksheet Tab is complete and correct	✓		✓	
20. TALS Reagent Tab is complete and correct	✓		✓	
21. TALS QC Links Tab is correct	✓		✓	
22. TALS Sample Results Tab	✓			
a. All unused data are marked Rejected or Accepted	✓		✓	
b. All reported analytes are marked Primary or Secondary	✓		✓	
c. Data manually transcribed from benchsheet into TALS verified 100% including significant figures SM 4500 SO3 B).	✓		✓	
d. TALS Batch Information Screen documentation is complete	✓		✓	
e. TALS Status set to appropriate review level	✓		✓	
E. Final Report and NCMs (2nd level review only)				
f. Were all job/project requirements met?			✓	
g. Results for samples and QC correct on final report?			✓	
h. Are all necessary scanned documents in TALS?			✓	
i. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?			✓	

Comments: _____

_____

_____

2nd Reviewer: SAH **Review Date:** 06/25/2020

6.25.2020

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0002.d
Lims ID: std L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 09-Jun-2020 10:46:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092247-002
Operator ID: Instrument ID: WC_IonChrom11
Sublist: chrom-Anions_IC11*sub1

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 10-Jun-2020 08:29:50 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1025

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.475	2.475	0.000	1481009	0.2000	0.2155	
2 Chloride	3.500	3.542	-0.042	5694811	1.00	1.31	
3 Nitrite as N	4.192	4.209	-0.017	2438266	NC	NC	
4 Bromide	4.992	5.009	-0.017	477491	0.2000	0.2072	
5 Nitrate as N	5.584	5.592	-0.008	2817793	NC	NC	
7 Orthophosphate as P	8.200	8.175	0.025	870676	NC	NC	
6 Sulfate	8.909	9.009	-0.100	4124231	1.00	1.24	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

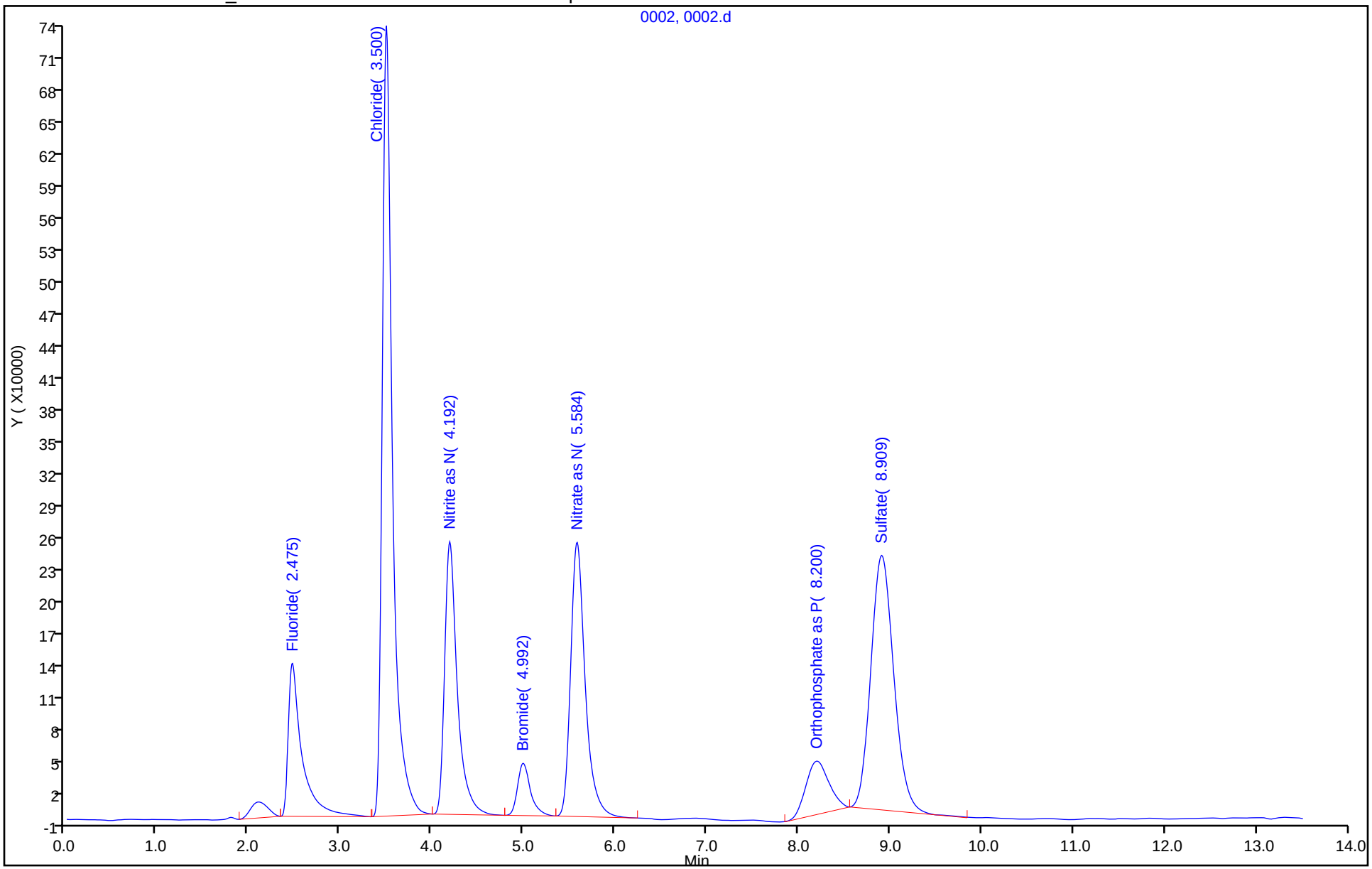
IC Cal low_00528 Amount Added: 0.02 Units: mL
IC CAL cl/so4_00314 Amount Added: 0.02 Units: mL

Report Date: 10-Jun-2020 08:29:50 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0002.d

Injection Date:	09-Jun-2020 10:46:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	std L1			Worklist Smp#:	2
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0003.d
Lims ID: std L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 09-Jun-2020 11:03:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092247-003
Operator ID: Instrument ID: WC_IonChrom11
Sublist: chrom-Anions_IC11*sub1

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 10-Jun-2020 08:29:50 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1025

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.475	2.475	0.000	3686653	0.5000	0.4934	
2 Chloride	3.500	3.542	-0.042	14581740	2.50	2.34	
3 Nitrite as N	4.192	4.209	-0.017	6276771	NC	NC	
4 Bromide	4.992	5.009	-0.017	1183366	0.5000	0.4993	
5 Nitrate as N	5.584	5.592	-0.008	7240340	NC	NC	
7 Orthophosphate as P	8.200	8.175	0.025	2122922	NC	NC	
6 Sulfate	8.909	9.009	-0.100	10481254	2.50	2.40	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

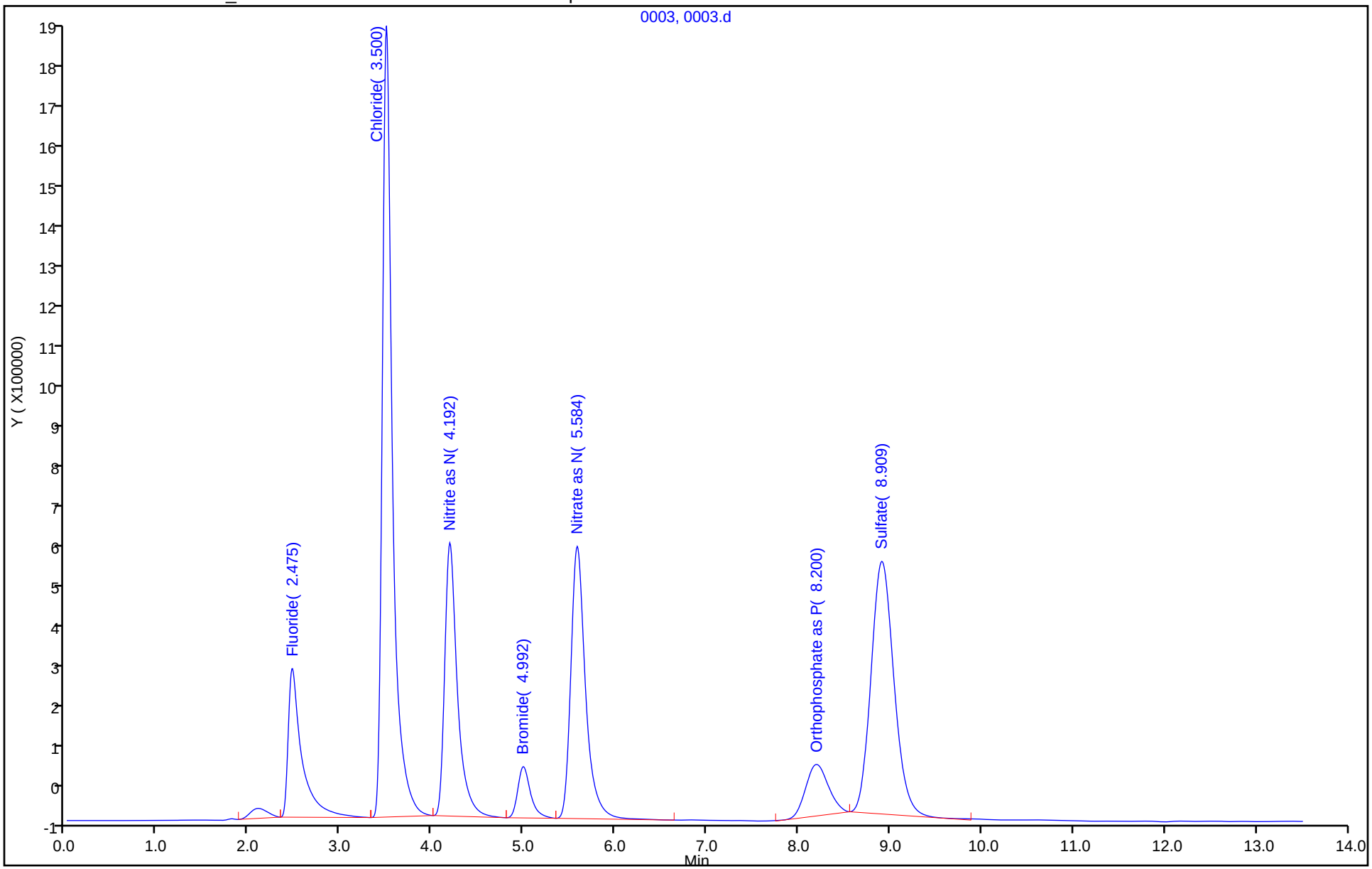
IC Cal low_00528 Amount Added: 0.05 Units: mL
IC CAL cl/so4_00314 Amount Added: 0.05 Units: mL

Report Date: 10-Jun-2020 08:29:51 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0003.d

Injection Date:	09-Jun-2020 11:03:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	std L2			Worklist Smp#:	3
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0004.d
Lims ID: std L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 09-Jun-2020 11:19:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092247-004
Operator ID: Instrument ID: WC_IonChrom11
Sublist: chrom-Anions_IC11*sub1

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 10-Jun-2020 08:29:51 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1025

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.476	2.475	0.001	7299718	1.00	0.9487	
2 Chloride	3.501	3.542	-0.041	29231062	5.00	4.03	
3 Nitrite as N	4.201	4.209	-0.008	12455591	NC	NC	
4 Bromide	5.001	5.009	-0.008	2311337	1.00	0.9661	
5 Nitrate as N	5.592	5.592	0.000	14289798	NC	NC	
7 Orthophosphate as P	8.192	8.175	0.017	4302126	NC	NC	
6 Sulfate	8.917	9.009	-0.092	20677397	5.00	4.27	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

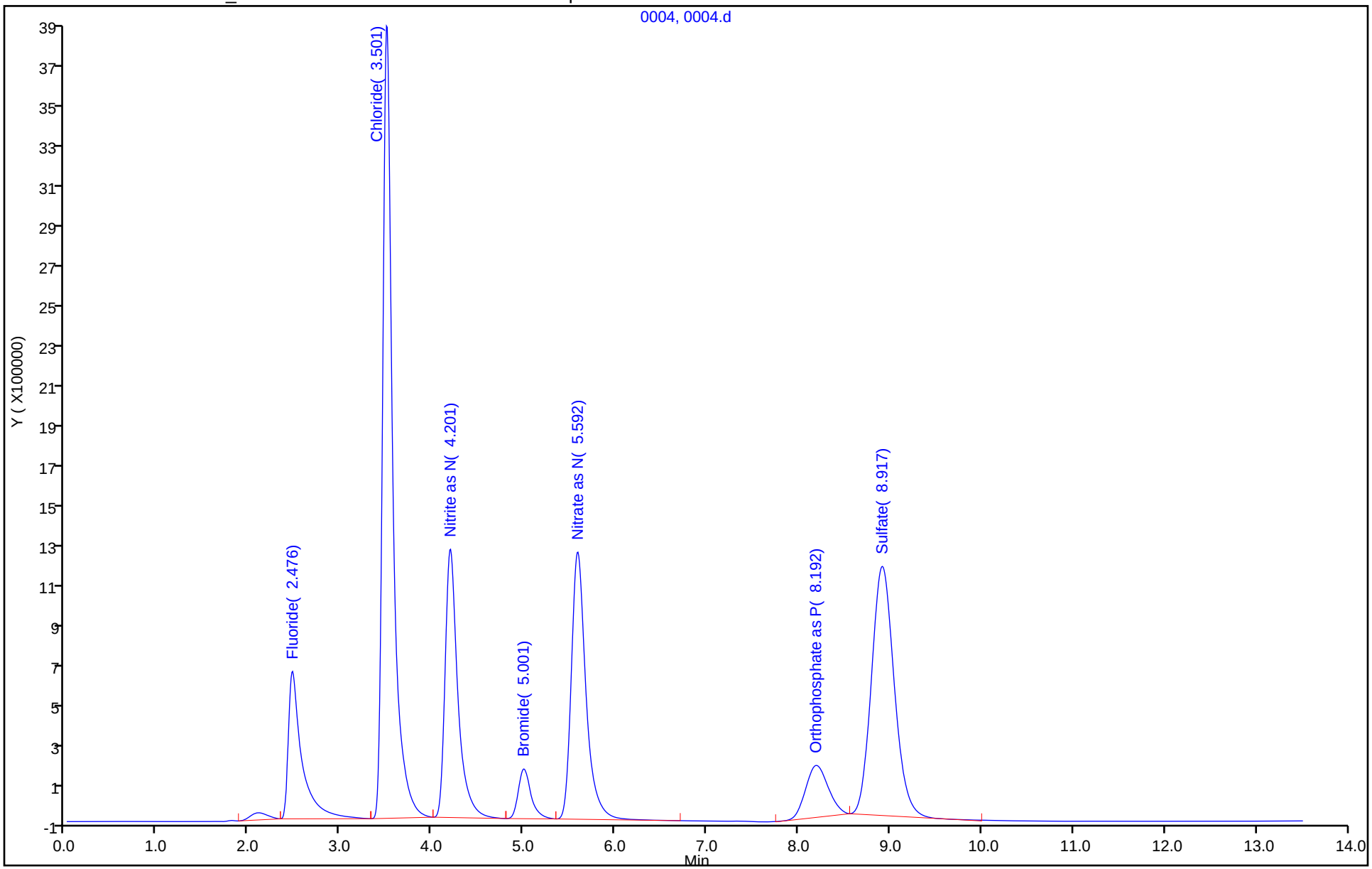
IC Cal low_00528 Amount Added: 0.10 Units: mL
IC CAL cl/so4_00314 Amount Added: 0.10 Units: mL

Report Date: 10-Jun-2020 08:29:51 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0004.d

Injection Date:	09-Jun-2020 11:19:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	std L3			Worklist Smp#:	4
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0005.d
Lims ID: std L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 09-Jun-2020 11:36:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092247-005
Operator ID: Instrument ID: WC_IonChrom11
Sublist: chrom-Anions_IC11*sub1

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 10-Jun-2020 08:29:51 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1025

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.476	2.476	0.000	30661290	4.00	3.89	
2 Chloride	3.526	3.526	0.000	476436081	60.0	55.8	
3 Nitrite as N	4.209	4.209	0.000	52910668	NC	NC	
4 Bromide	5.001	5.001	0.000	9624142	4.00	3.99	
5 Nitrate as N	5.584	5.584	0.000	61453111	NC	NC	
7 Orthophosphate as P	8.176	8.176	0.000	18432058	NC	NC	
6 Sulfate	8.984	8.984	0.000	301462033	60.0	55.6	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

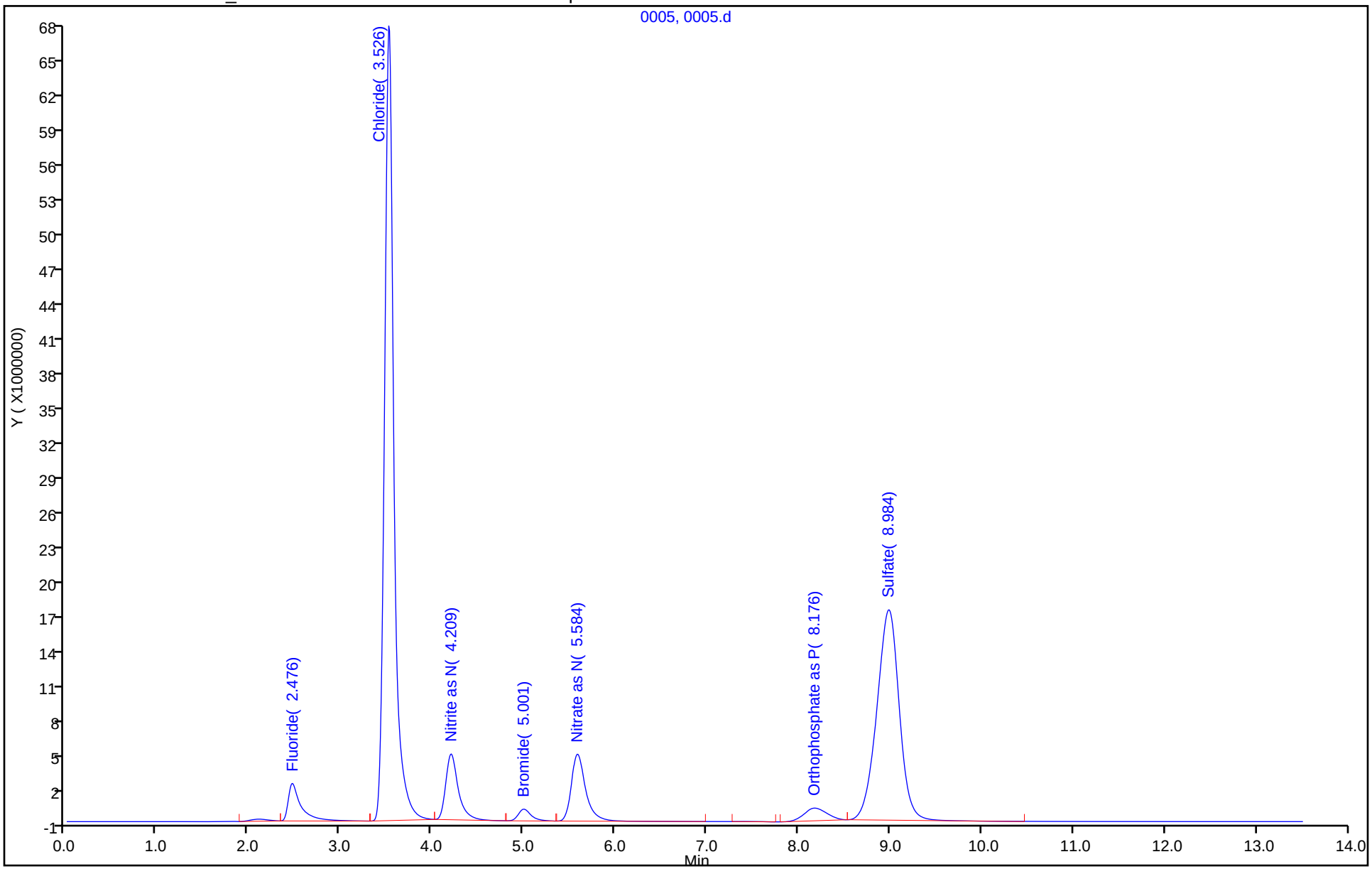
IC Cal low_00528 Amount Added: 0.40 Units: mL
IC CAL cl/so4_00314 Amount Added: 1.20 Units: mL

Report Date: 10-Jun-2020 08:29:51 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0005.d

Injection Date:	09-Jun-2020 11:36:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	std L4			Worklist Smp#:	5
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0006.d
Lims ID: std L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 09-Jun-2020 11:52:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092247-006
Misc. Info.: 6 F
Operator ID: Instrument ID: WC_IonChrom11
Sublist: chrom-Anions_IC11*sub1

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 10-Jun-2020 08:29:52 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1025

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.475	2.476	-0.001	62848106	8.00	7.95	
2 Chloride	3.559	3.526	0.033	1012780349	120.0	117.9	
3 Nitrite as N	4.217	4.209	0.008	108838962	NC	NC	
4 Bromide	5.000	5.001	-0.001	19110353	8.00	7.92	
5 Nitrate as N	5.592	5.584	0.008	127954080	NC	NC	
7 Orthophosphate as P	8.167	8.176	-0.009	37147406	NC	NC	
6 Sulfate	9.050	8.984	0.066	639884212	120.0	117.4	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

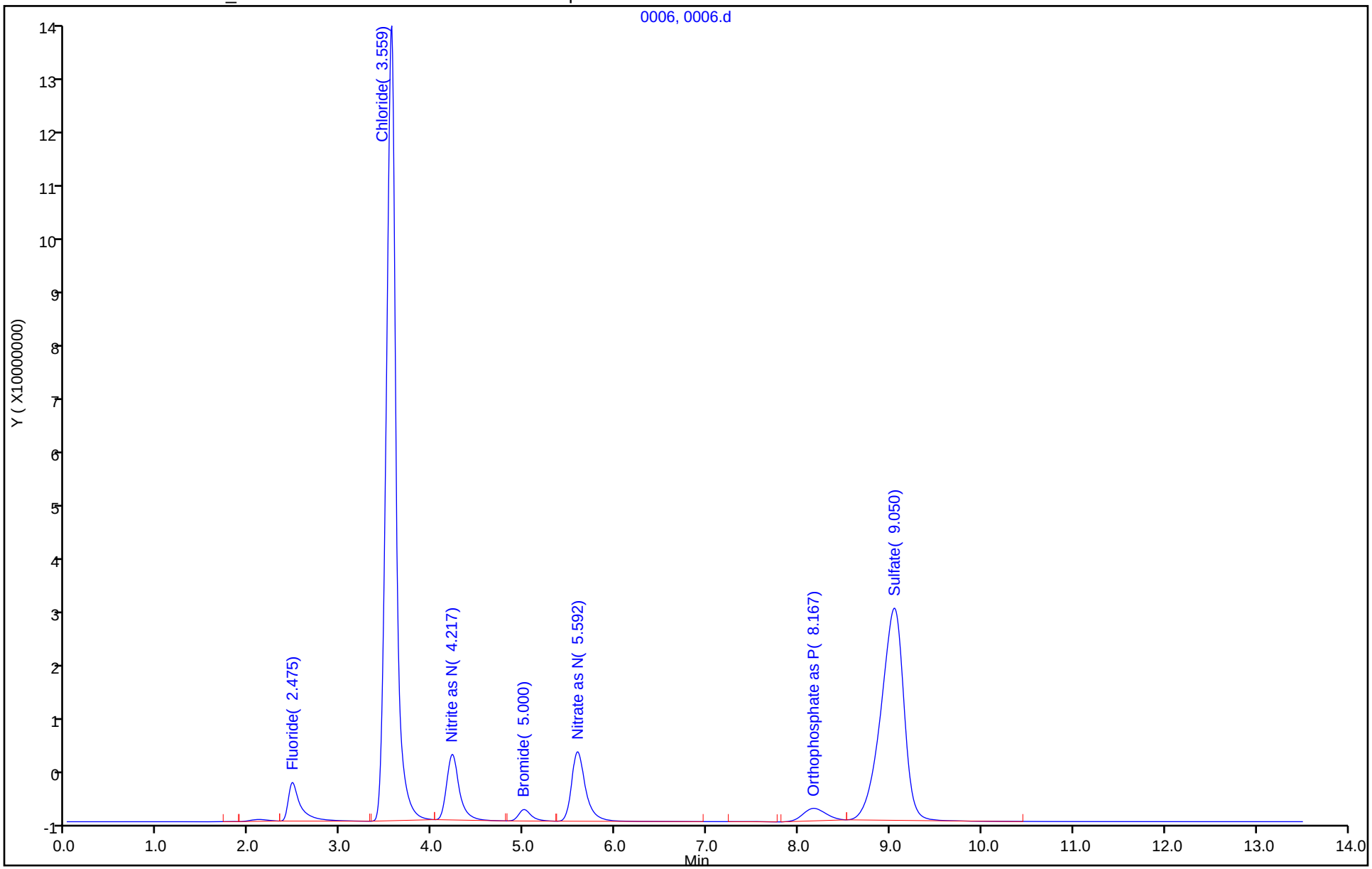
IC Cal low_00528 Amount Added: 0.80 Units: mL
IC CAL cl/so4_00314 Amount Added: 2.40 Units: mL

Report Date: 10-Jun-2020 08:29:52 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0006.d

Injection Date:	09-Jun-2020 11:52:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	std L5			Worklist Smp#:	6
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d				
Lims ID:	std L6				
Client ID:					
Sample Type:	IC	Calib Level:	6		
Inject. Date:	09-Jun-2020 12:09:00	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	10.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-0092247-007				
Misc. Info.:	7 F				
Operator ID:		Instrument ID:	WC_IonChrom11		
Sublist:	chrom-Anions_IC11*sub1				
Method:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\Anions_IC11.m				
Limit Group:	Wet - Anions 28D				
Last Update:	10-Jun-2020 08:29:52	Calib Date:	09-Jun-2020 12:09:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d				
Column 1 :			Det: 0005		
Process Host:	CTX1025				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.475	2.476	-0.001	80734941	10.0	10.2	
2 Chloride	3.584	3.526	0.058	1783173904	200.0	207.1	
3 Nitrite as N	4.225	4.209	0.016	140701573	NC	NC	
4 Bromide	5.000	5.001	-0.001	24425061	10.0	10.1	
5 Nitrate as N	5.584	5.584	0.000	166927530	NC	NC	
7 Orthophosphate as P	8.142	8.176	-0.034	43192709	NC	NC	
6 Sulfate	9.100	8.984	0.116	1134073888	200.0	207.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

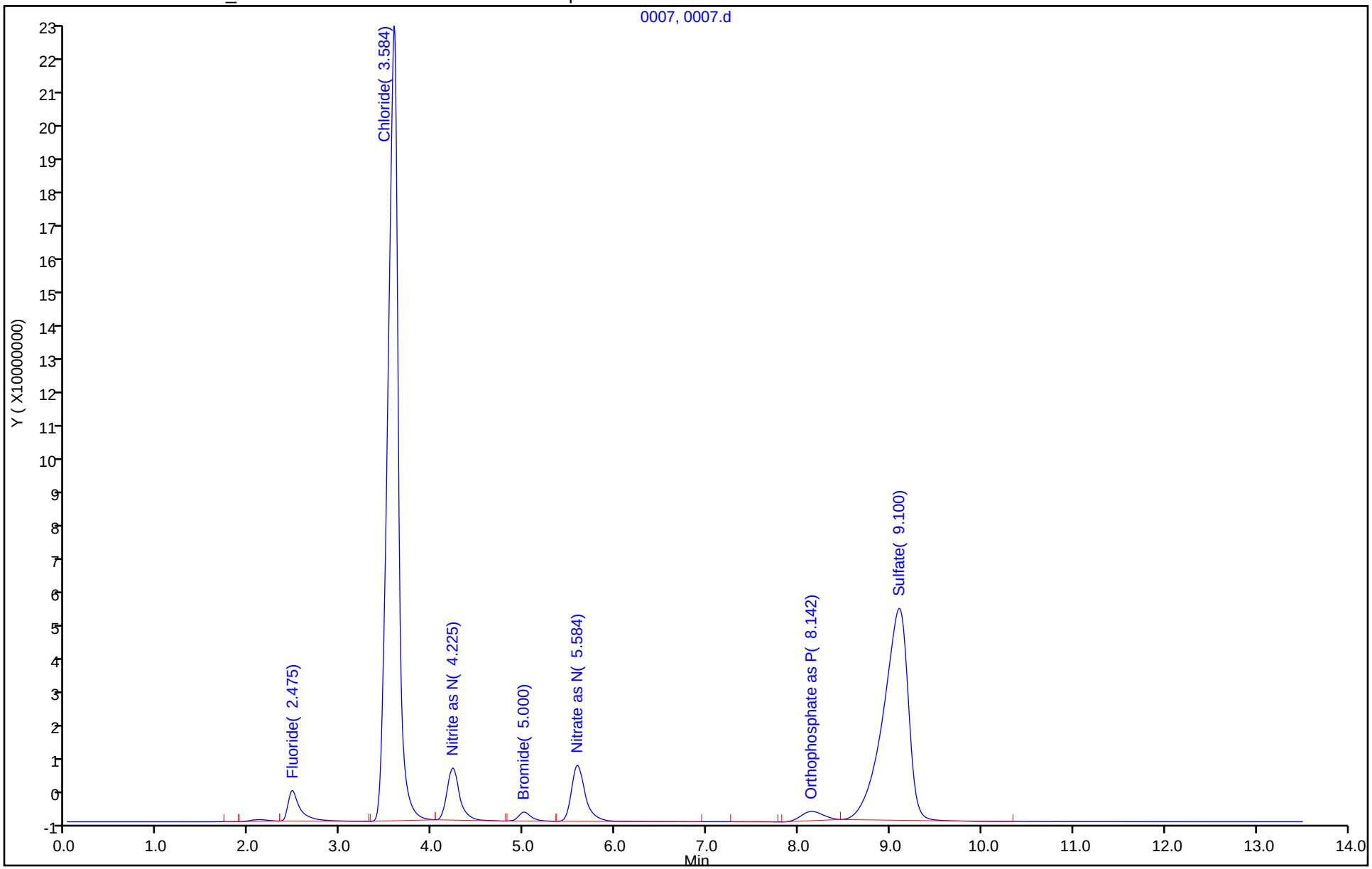
IC Cal low_00528	Amount Added:	1.00	Units: mL
IC CAL cl/so4_00314	Amount Added:	4.00	Units: mL

Report Date: 10-Jun-2020 08:29:52 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Injection Date:	09-Jun-2020 12:09:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	std L6			Worklist Smp#:	7
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



IC Instrument Information

WL: 92247 **Inst ID:** 11 **Analysis Date:** 6/9/2020 **Analyst:** JP

Rush	Job No.	Samples	Anions	QC Req	HT Exp
☐	137172	15	F Cl NO2 Br NO3 PO4 SO4	MS/D 4	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	

Dilutions

Job No.	Samples	Anions	Dilution	Reason
172		F Cl NO2 Br NO3 PO4 SO4	5, 10X	RERUN
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		

TestAmerica Laboratories
Initial Calibration Summary Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\Anions_IC11.m
Instrument: WC_IonChrom11 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 09-Jun-2020 23:07:06
No.Compounds:7

Initial Calibration Batches

Ical Batch: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b
Inj Date : 09-Jun-2020 10:46:00, Sublist: chrom-Anions_IC11*sub1

Detector 1: 0005

	Wet - Anions				Wet - Anions 28D			
Compound	b	M1	M2	Err	b	M1	M2	Err
1 Fluoride					-229426	7936214		0.999
2 Chloride					-561583	8637305		0.998
3 Nitrite as N	-550088	1379419		0.999				
4 Bromide					-23127	2416477		1.000
5 Nitrate as N	-785741	1626148		0.999				
7 Orthophosphate as P	-54711	4489290		0.999				
6 Sulfate					-267892	5474328		0.998

TestAmerica Laboratories
Initial Calibration Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\Anions_IC11.m
Instrument: WC_IonChrom11 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 09-Jun-2020 23:07:06
No.Compounds:7
Sublist: chrom-Anions_IC11*sub1
Limit Group: Wet - Anions

Detectors

Detector: 1, 0005
Data Type: ic Spec Type: none
Supports Extracted Chromatograms: False
Run Time: 0.000-13.500 No. Points: 1561

Calibration File Names

Level: 1 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0002.d
Inj Date: 09-Jun-2020 10:46:00 Worklist: 92247 Sample#: 2
Level: 2 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0003.d
Inj Date: 09-Jun-2020 11:03:00 Worklist: 92247 Sample#: 3
Level: 3 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0004.d
Inj Date: 09-Jun-2020 11:19:00 Worklist: 92247 Sample#: 4
Level: 4 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0005.d
Inj Date: 09-Jun-2020 11:36:00 Worklist: 92247 Sample#: 5
Level: 5 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0006.d
Inj Date: 09-Jun-2020 11:52:00 Worklist: 92247 Sample#: 6
Level: 6 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d
Inj Date: 09-Jun-2020 12:09:00 Worklist: 92247 Sample#: 7

Start Cal Date: 09-Jun-2020 10:46:00 End Cal Date: 09-Jun-2020 12:09:00

Individual Compound Calibration Parameters

Quant Method: ESTD RF Calibration: Replace
Rule Name: Linear1 Curve: Linear Weighting: Conc
Origin: None Error: raw_COD Error Limit: 1.00
RF %Dif: 0.0 SPCC Limit: 0.0 CCC Limit: 0.0
Dependent Variable: Resp

Number of Compounds: 3

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error
3 Nitrite as N				Signal: 1					
12191330	12553542	12455591	13227667	13604870	14070157	-550088			0.999
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		13794192		
2438266	6276771	12455591	52910668	108838962	140701573				
92247(2)	92247(3)	92247(4)	92247(5)	92247(6)	92247(7)				
5 Nitrate as N				Signal: 1					
14088965	14480680	14289798	15363278	15994260	16692753	-785741			0.999
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		16261481		
2817793	7240340	14289798	61453111	127954080	166927530				
92247(2)	92247(3)	92247(4)	92247(5)	92247(6)	92247(7)				
7 Orthophosphate as P				Signal: 1					
4353380	4245844	4302126	4608015	4643426	4319271	-54711			0.999
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		4489290		
870676	2122922	4302126	18432058	37147406	43192709				
92247(2)	92247(3)	92247(4)	92247(5)	92247(6)	92247(7)				

TestAmerica Laboratories
Initial Calibration Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\Anions_IC11.m
Instrument: WC_IonChrom11 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 09-Jun-2020 23:07:06
No.Compounds:7
Sublist: chrom-Anions_IC11*sub1
Limit Group: Wet - Anions 28D

Detectors

Detector: 1, 0005
Data Type: ic Spec Type: none
Supports Extracted Chromatograms: False
Run Time: 0.000-13.500 No. Points: 1561

Calibration File Names

Level: 1 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0002.d
Inj Date: 09-Jun-2020 10:46:00 Worklist: 92247 Sample#: 2
Level: 2 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0003.d
Inj Date: 09-Jun-2020 11:03:00 Worklist: 92247 Sample#: 3
Level: 3 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0004.d
Inj Date: 09-Jun-2020 11:19:00 Worklist: 92247 Sample#: 4
Level: 4 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0005.d
Inj Date: 09-Jun-2020 11:36:00 Worklist: 92247 Sample#: 5
Level: 5 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0006.d
Inj Date: 09-Jun-2020 11:52:00 Worklist: 92247 Sample#: 6
Level: 6 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d
Inj Date: 09-Jun-2020 12:09:00 Worklist: 92247 Sample#: 7

Start Cal Date: 09-Jun-2020 10:46:00 End Cal Date: 09-Jun-2020 12:09:00

Individual Compound Calibration Parameters

Quant Method: ESTD RF Calibration: Replace
Rule Name: Linear1 Curve: Linear Weighting: Conc
Origin: None Error: raw_COD Error Limit: 1.00
RF %Dif: 0.0 SPCC Limit: 0.0 CCC Limit: 0.0
Dependent Variable: Resp

Number of Compounds: 4

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error
1 Fluoride				Signal: 1					
7405045	7373306	7299718	7665323	7856013	8073494	**-229426**			**0.999**
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		**7936214**		
1481009	3686653	7299718	30661290	62848106	80734941				
92247(2)	92247(3)	92247(4)	92247(5)	92247(6)	92247(7)				
2 Chloride				Signal: 1					
5694811	5832696	5846212	7940601	8439836	8915870	**-5615830**			**0.998**
1.0000 (1)	2.5000 (2)	5.0000 (3)	60.0 (4)	120.0 (5)	200.0 (6)		**8637305**		
5694811	14581740	29231062	476436081	1012780349	1783173904				
92247(2)	92247(3)	92247(4)	92247(5)	92247(6)	92247(7)				
4 Bromide				Signal: 1					
2387455	2366732	2311337	2406036	2388794	2442506	**-23127**			**1.000**
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		**2416477**		
477491	1183366	2311337	9624142	19110353	24425061				
92247(2)	92247(3)	92247(4)	92247(5)	92247(6)	92247(7)				
6 Sulfate				Signal: 1					
4124231	4192502	4135479	5024367	5332368	5670369	**-2678928**			**0.998**
1.0000 (1)	2.5000 (2)	5.0000 (3)	60.0 (4)	120.0 (5)	200.0 (6)		**5474328**		
4124231	10481254	20677397	301462033	639884212	1134073888				
92247(2)	92247(3)	92247(4)	92247(5)	92247(6)	92247(7)				

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0008.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 09-Jun-2020 12:25:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092247-008
Misc. Info.: 8 F
Operator ID: Instrument ID: WC_IonChrom11
Sublist:

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 10-Jun-2020 08:29:52 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1025

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.475	2.475	0.000	34042400	4.00	4.32	
2 Chloride	3.542	3.542	0.000	644600884	80.0	75.3	
3 Nitrite as N	4.209	4.209	0.000	53000573	NC	NC	
4 Bromide	5.009	5.009	0.000	9957514	4.00	4.13	
5 Nitrate as N	5.592	5.592	0.000	63320699	NC	NC	
7 Orthophosphate as P	8.175	8.175	0.000	18433661	NC	NC	
6 Sulfate	9.009	9.009	0.000	405899682	80.0	74.6	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

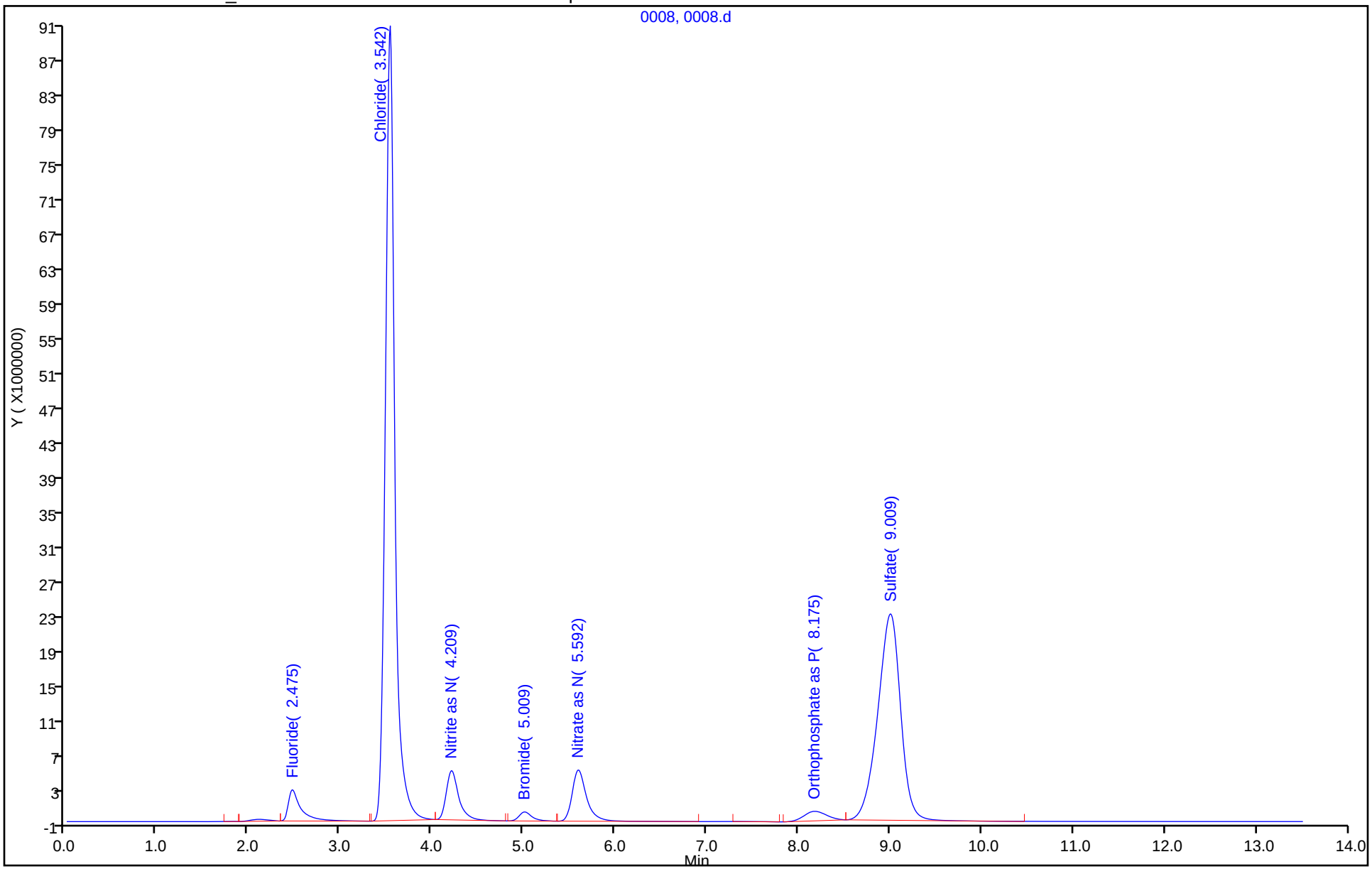
IC SO4 ICV_00021	Amount Added:	0.40	Units: mL
IC ICV 5_00273	Amount Added:	0.40	Units: mL
IC CL ICV_00018	Amount Added:	0.40	Units: mL

Report Date: 10-Jun-2020 08:29:53 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0008.d

Injection Date:	09-Jun-2020 12:25:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	ICV			Worklist Smp#:	8
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0009.d
Lims ID: ICB
Client ID:
Sample Type: ICB
Inject. Date: 09-Jun-2020 12:41:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092247-009
Misc. Info.: 9 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 10-Jun-2020 08:29:52 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1025

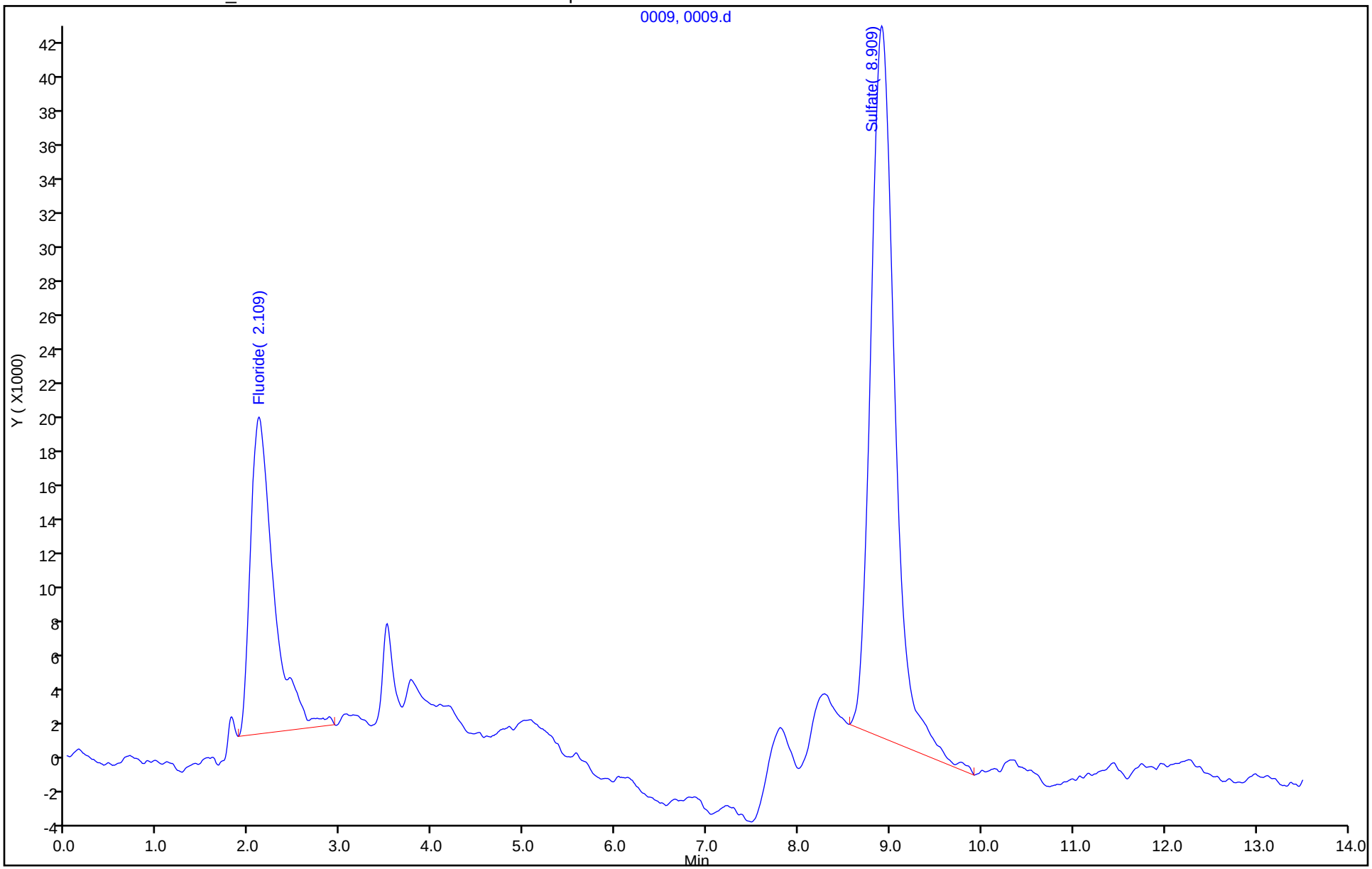
Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.109	2.475	-0.366	332778		0.0708	
2 Chloride		3.542				ND	
3 Nitrite as N		4.209				ND	
4 Bromide		5.009				ND	
5 Nitrate as N		5.592				ND	
7 Orthophosphate as P		8.175				ND	
6 Sulfate	8.909	9.009	-0.100	770107		0.6300	

Report Date: 10-Jun-2020 08:29:53 Chrom Revision: 2.3 05-May-2020 17:48:18

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0009.d

Injection Date:	09-Jun-2020 12:41:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	ICB			Worklist Smp#:	9
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



IC Instrument Information

WL: 92899 **Inst ID:** 11 **Analysis Date:** 6/30/2020 **Analyst:** JP

Rush	Job No.	Samples	Anions	QC Req	HT Exp
☐	137681	1	F Cl NO2 Br NO3 PO4 **SO4**	**MS/D** 1	
☐	137644	1	**F** Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	137888	4	**F Cl** NO2 Br NO3 PO4 SO4	MS/D	
☐	137531	5	F Cl NO2 Br **NO3** PO4 SO4	**MS/D** 2	
☐	137692	2	F Cl NO2 Br NO3 PO4 **SO4**	MS/D	
☐	137705	3	**F** Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	137707	2	F Cl NO2 Br NO3 PO4 **SO4**	MS/D	
☐	137736	14	F Cl NO2 Br NO3 PO4 **SO4**	**MS/D** 4,9	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	

Dilutions

Job No.	Samples	Anions	Dilution	Reason
681		F Cl NO2 Br NO3 PO4 SO4	50X	RERUN
644		F Cl NO2 Br NO3 PO4 SO4	2X	RERUN
888		F Cl NO2 Br NO3 PO4 SO4	5,20X	RERUN
707		F Cl NO2 Br NO3 PO4 SO4	5X	MIST
692		F Cl NO2 Br NO3 PO4 SO4	10X	MIST
736		F Cl NO2 Br NO3 PO4 SO4	5X	TEST
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		

TestAmerica Laboratories
Initial Calibration Summary Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\Anions_IC11.m
Instrument: WC_IonChrom11 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 09-Jun-2020 23:07:06
No.Compounds:7

Initial Calibration Batches

Ical Batch: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b
Inj Date : 09-Jun-2020 10:46:00, Sublist: chrom-Anions_IC11*sub1

Detector 1: 0005

	Wet - Anions				Wet - Anions 28D			
Compound	b	M1	M2	Err	b	M1	M2	Err
1 Fluoride					-229426	7936214		0.999
2 Chloride					-561583	8637305		0.998
3 Nitrite as N	-550088	1379419		0.999				
4 Bromide					-23127	2416477		1.000
5 Nitrate as N	-785741	1626148		0.999				
7 Orthophosphate as P	-54711	4489290		0.999				
6 Sulfate					-267892	5474328		0.998

TestAmerica Laboratories
Initial Calibration Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\Anions_IC11.m
Instrument: WC_IonChrom11 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 09-Jun-2020 23:07:06
No.Compounds:7
Sublist: chrom-Anions_IC11*sub1
Limit Group: Wet - Anions

Detectors

Detector: 1, 0005
Data Type: ic Spec Type: none
Supports Extracted Chromatograms: False
Run Time: 0.000-13.500 No. Points: 1561

Calibration File Names

Level: 1 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0002.d
Inj Date: 09-Jun-2020 10:46:00 Worklist: 92247 Sample#: 2
Level: 2 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0003.d
Inj Date: 09-Jun-2020 11:03:00 Worklist: 92247 Sample#: 3
Level: 3 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0004.d
Inj Date: 09-Jun-2020 11:19:00 Worklist: 92247 Sample#: 4
Level: 4 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0005.d
Inj Date: 09-Jun-2020 11:36:00 Worklist: 92247 Sample#: 5
Level: 5 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0006.d
Inj Date: 09-Jun-2020 11:52:00 Worklist: 92247 Sample#: 6
Level: 6 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d
Inj Date: 09-Jun-2020 12:09:00 Worklist: 92247 Sample#: 7

Start Cal Date: 09-Jun-2020 10:46:00 End Cal Date: 09-Jun-2020 12:09:00

Individual Compound Calibration Parameters

Quant Method: ESTD RF Calibration: Replace
Rule Name: Linear1 Curve: Linear Weighting: Conc
Origin: None Error: raw_COD Error Limit: 1.00
RF %Dif: 0.0 SPCC Limit: 0.0 CCC Limit: 0.0
Dependent Variable: Resp

Number of Compounds: 3

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error
3 Nitrite as N				Signal: 1					
12191330	12553542	12455591	13227667	13604870	14070157	-550088			0.999
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		13794192		
2438266	6276771	12455591	52910668	108838962	140701573				
92247(2)	92247(3)	92247(4)	92247(5)	92247(6)	92247(7)				
5 Nitrate as N				Signal: 1					
14088965	14480680	14289798	15363278	15994260	16692753	-785741			0.999
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		16261481		
2817793	7240340	14289798	61453111	127954080	166927530				
92247(2)	92247(3)	92247(4)	92247(5)	92247(6)	92247(7)				
7 Orthophosphate as P				Signal: 1					
4353380	4245844	4302126	4608015	4643426	4319271	-54711			0.999
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		4489290		
870676	2122922	4302126	18432058	37147406	43192709				
92247(2)	92247(3)	92247(4)	92247(5)	92247(6)	92247(7)				

TestAmerica Laboratories
Initial Calibration Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\Anions_IC11.m
Instrument: WC_IonChrom11 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 09-Jun-2020 23:07:06
No.Compounds:7
Sublist: chrom-Anions_IC11*sub1
Limit Group: Wet - Anions 28D

Detectors

Detector: 1, 0005
Data Type: ic Spec Type: none
Supports Extracted Chromatograms: False
Run Time: 0.000-13.500 No. Points: 1561

Calibration File Names

Level: 1 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0002.d
Inj Date: 09-Jun-2020 10:46:00 Worklist: 92247 Sample#: 2
Level: 2 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0003.d
Inj Date: 09-Jun-2020 11:03:00 Worklist: 92247 Sample#: 3
Level: 3 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0004.d
Inj Date: 09-Jun-2020 11:19:00 Worklist: 92247 Sample#: 4
Level: 4 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0005.d
Inj Date: 09-Jun-2020 11:36:00 Worklist: 92247 Sample#: 5
Level: 5 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0006.d
Inj Date: 09-Jun-2020 11:52:00 Worklist: 92247 Sample#: 6
Level: 6 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d
Inj Date: 09-Jun-2020 12:09:00 Worklist: 92247 Sample#: 7

Start Cal Date: 09-Jun-2020 10:46:00 End Cal Date: 09-Jun-2020 12:09:00

Individual Compound Calibration Parameters

Quant Method: ESTD RF Calibration: Replace
Rule Name: Linear1 Curve: Linear Weighting: Conc
Origin: None Error: raw_COD Error Limit: 1.00
RF %Dif: 0.0 SPCC Limit: 0.0 CCC Limit: 0.0
Dependent Variable: Resp

Number of Compounds: 4

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error
1 Fluoride				Signal: 1					
7405045	7373306	7299718	7665323	7856013	8073494	**-229426**			**0.999**
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		**7936214**		
1481009	3686653	7299718	30661290	62848106	80734941				
92247(2)	92247(3)	92247(4)	92247(5)	92247(6)	92247(7)				
2 Chloride				Signal: 1					
5694811	5832696	5846212	7940601	8439836	8915870	**-5615830**			**0.998**
1.0000 (1)	2.5000 (2)	5.0000 (3)	60.0 (4)	120.0 (5)	200.0 (6)		**8637305**		
5694811	14581740	29231062	476436081	1012780349	1783173904				
92247(2)	92247(3)	92247(4)	92247(5)	92247(6)	92247(7)				
4 Bromide				Signal: 1					
2387455	2366732	2311337	2406036	2388794	2442506	**-23127**			**1.000**
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		**2416477**		
477491	1183366	2311337	9624142	19110353	24425061				
92247(2)	92247(3)	92247(4)	92247(5)	92247(6)	92247(7)				
6 Sulfate				Signal: 1					
4124231	4192502	4135479	5024367	5332368	5670369	**-2678928**			**0.998**
1.0000 (1)	2.5000 (2)	5.0000 (3)	60.0 (4)	120.0 (5)	200.0 (6)		**5474328**		
4124231	10481254	20677397	301462033	639884212	1134073888				
92247(2)	92247(3)	92247(4)	92247(5)	92247(6)	92247(7)				

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0001.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 30-Jun-2020 10:18:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-001
Operator ID: Instrument ID: WC_IonChrom11
Sublist: chrom-Anions_IC11*sub1

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 08:31:47 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1063

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	39527100	5.00	5.01	
2 Chloride	3.517	3.542	-0.025	822631655	100.0	95.9	
3 Nitrite as N	4.167	4.209	-0.042	64899402	NC	NC	
4 Bromide	4.934	5.009	-0.075	11793034	5.00	4.89	
5 Nitrate as N	5.500	5.592	-0.092	76454274	NC	NC	
7 Orthophosphate as P	8.017	8.175	-0.158	24317955	NC	NC	
6 Sulfate	8.859	9.009	-0.150	516732945	100.0	94.9	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

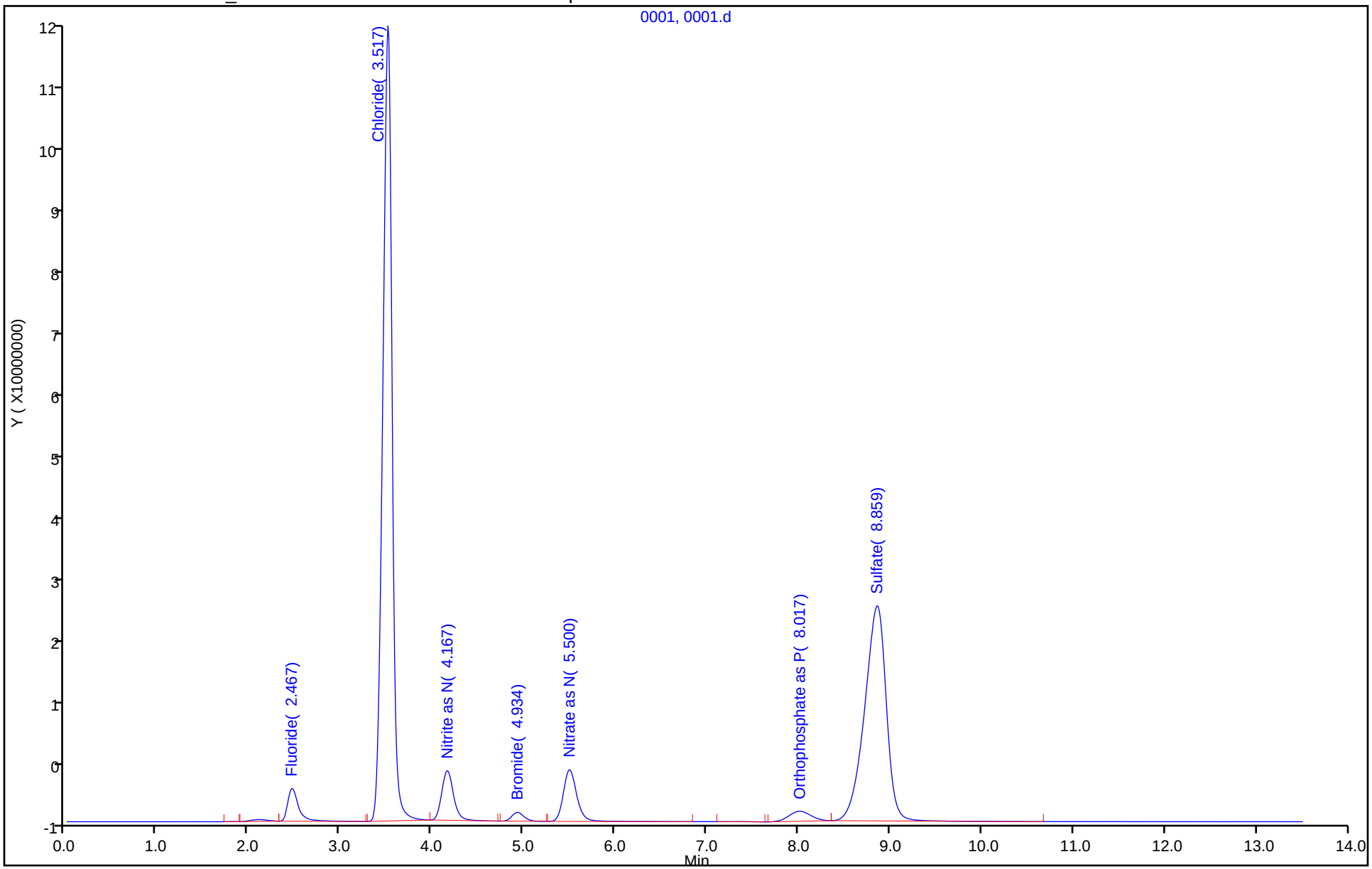
IC LCS_01747 Amount Added: 5.00 Units: mL

Report Date: 01-Jul-2020 08:31:47 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0001.d

Injection Date:	30-Jun-2020 10:18:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	CCV			Worklist Smp#:	1
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0002.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 30-Jun-2020 10:34:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-002
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 08:31:47 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1063

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.109	2.475	-0.366	155536		0.0485	
2 Chloride		3.542				ND	
3 Nitrite as N		4.209				ND	
4 Bromide		5.009				ND	
5 Nitrate as N		5.592				ND	
7 Orthophosphate as P	8.075	8.175	-0.100	127912		NC	
6 Sulfate		9.009				ND	

QC Flag Legend

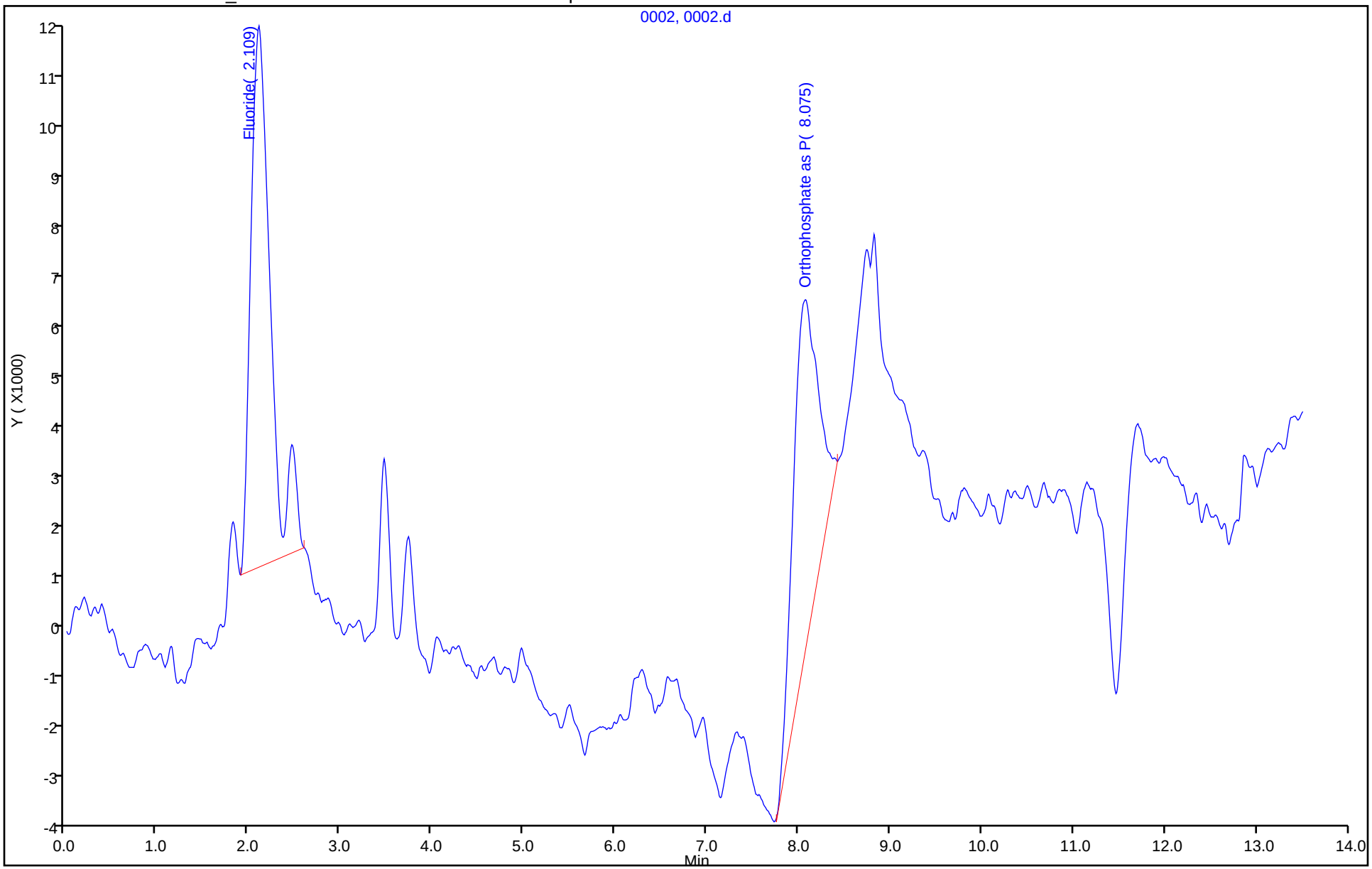
Processing Flags
NC - Not Calibrated

Report Date: 01-Jul-2020 08:31:47 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0002.d

Injection Date:	30-Jun-2020 10:34:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	CCB			Worklist Smp#:	2
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0003.d
Lims ID: MRL
Client ID:
Sample Type: MRL
Inject. Date: 30-Jun-2020 10:50:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-003
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 08:31:47 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1063

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	3771188	0.5000	0.5041	
2 Chloride	3.484	3.542	-0.058	30547516	5.00	4.19	
3 Nitrite as N	4.159	4.209	-0.050	6197554	NC	NC	
4 Bromide	4.942	5.009	-0.067	1202659	0.5000	0.5073	
5 Nitrate as N	5.517	5.592	-0.075	7083223	NC	NC	
7 Orthophosphate as P	8.042	8.175	-0.133	2370282	NC	NC	
6 Sulfate	8.759	9.009	-0.250	21882427	5.00	4.49	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

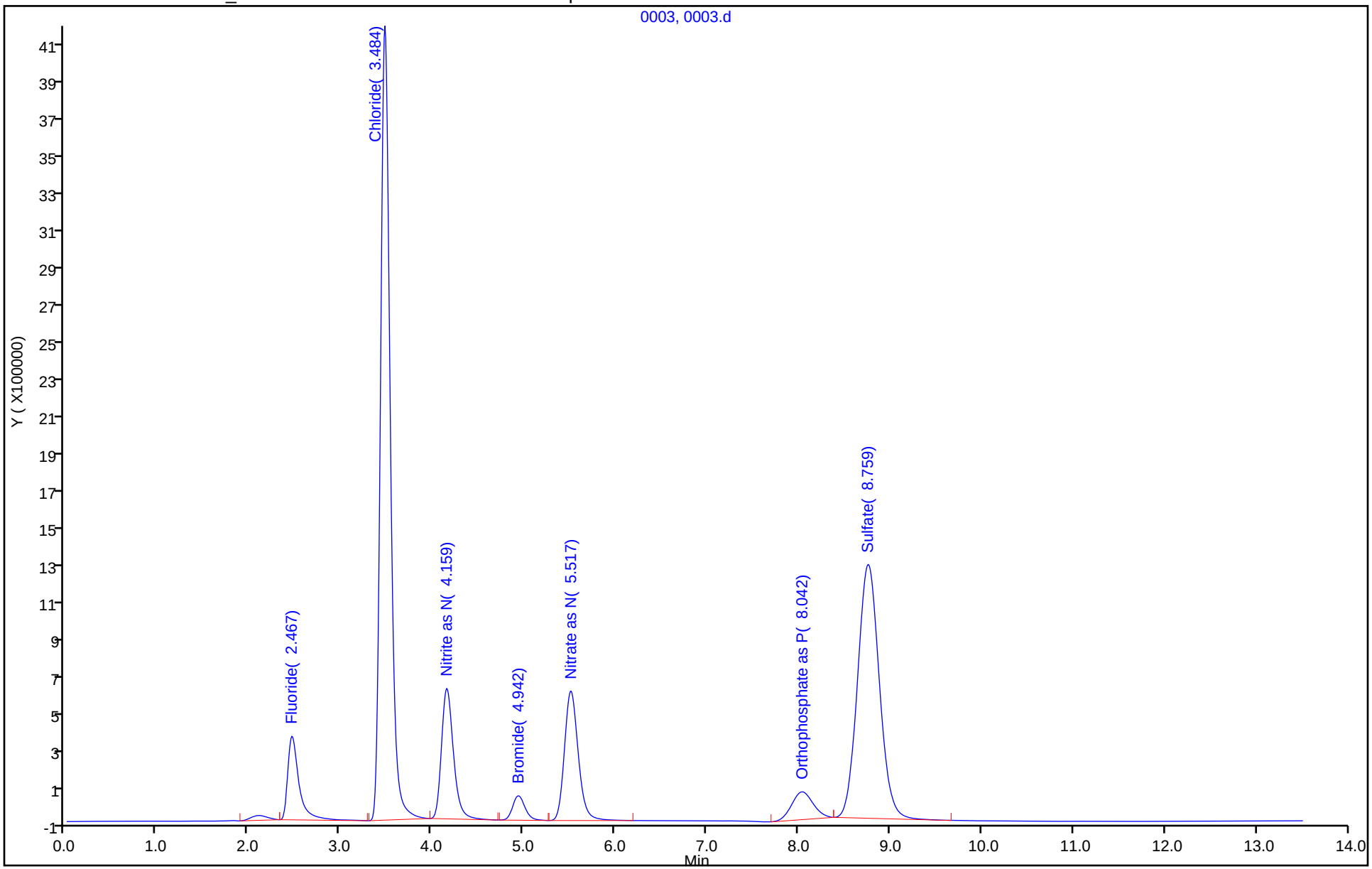
IC CAL cl/so4_00317 Amount Added: 0.10 Units: mL
IC Cal low_00531 Amount Added: 0.05 Units: mL

Report Date: 01-Jul-2020 08:31:48 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0003.d

Injection Date:	30-Jun-2020 10:50:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	MRL			Worklist Smp#:	3
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0004.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 30-Jun-2020 11:07:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-004
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 08:31:47 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1063

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	39726811	5.00	5.03	
2 Chloride	3.517	3.542	-0.025	823028676	100.0	95.9	
3 Nitrite as N	4.167	4.209	-0.042	64997535	NC	NC	
4 Bromide	4.942	5.009	-0.067	11855809	5.00	4.92	
5 Nitrate as N	5.509	5.592	-0.083	76529771	NC	NC	
7 Orthophosphate as P	8.017	8.175	-0.158	24373263	NC	NC	
6 Sulfate	8.867	9.009	-0.142	516236910	100.0	94.8	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

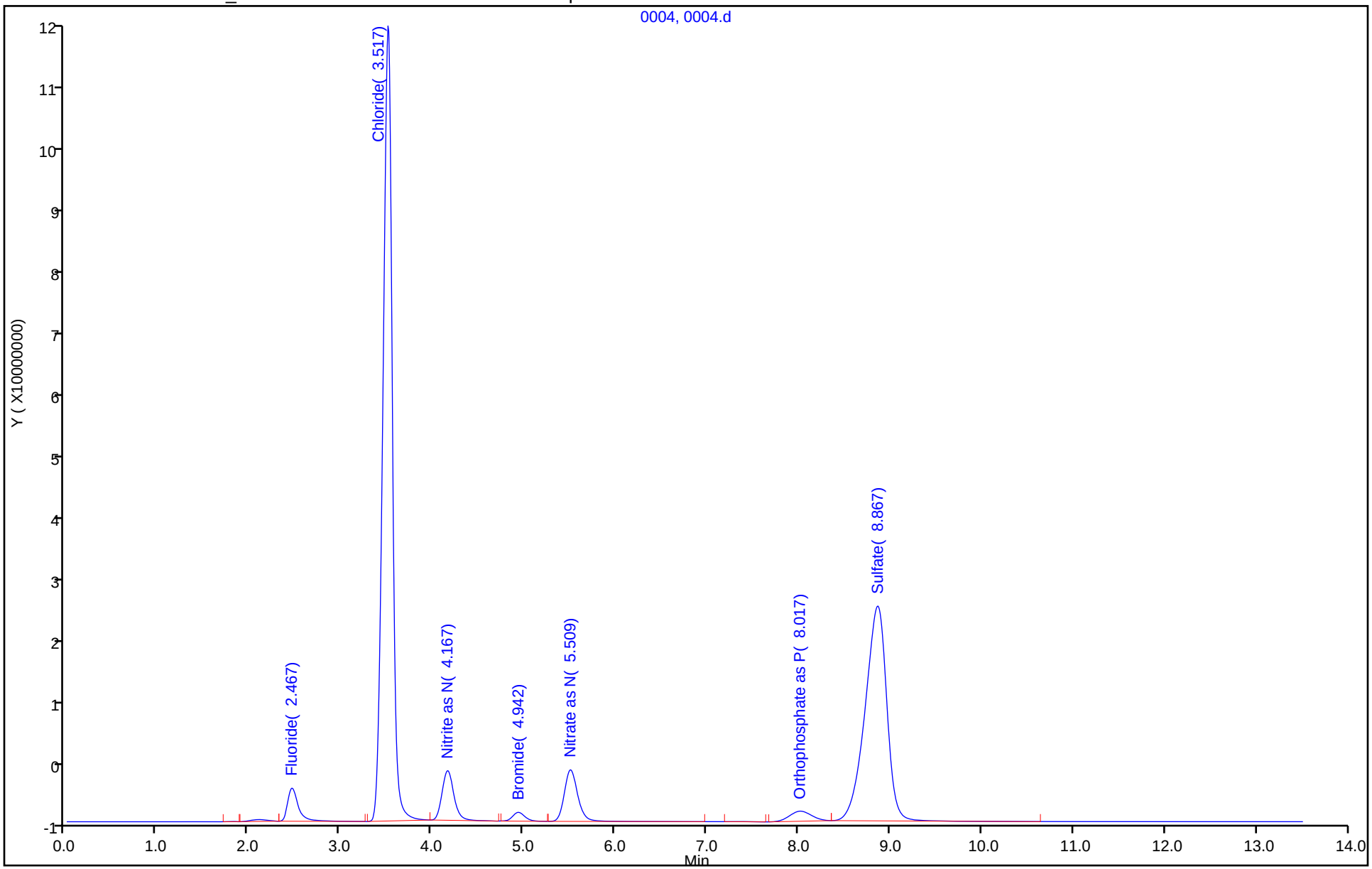
IC LCS_01747 Amount Added: 5.00 Units: mL

Report Date: 01-Jul-2020 08:31:48 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0004.d

Injection Date:	30-Jun-2020 11:07:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0005.d
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 30-Jun-2020 11:23:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-005
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 08:31:47 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1063

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	39708550	5.00	5.03	
2 Chloride	3.517	3.542	-0.025	822287887	100.0	95.9	
3 Nitrite as N	4.167	4.209	-0.042	65076666	NC	NC	
4 Bromide	4.934	5.009	-0.075	11805281	5.00	4.89	
5 Nitrate as N	5.500	5.592	-0.092	76267755	NC	NC	
7 Orthophosphate as P	8.017	8.175	-0.158	24489991	NC	NC	
6 Sulfate	8.867	9.009	-0.142	516186858	100.0	94.8	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

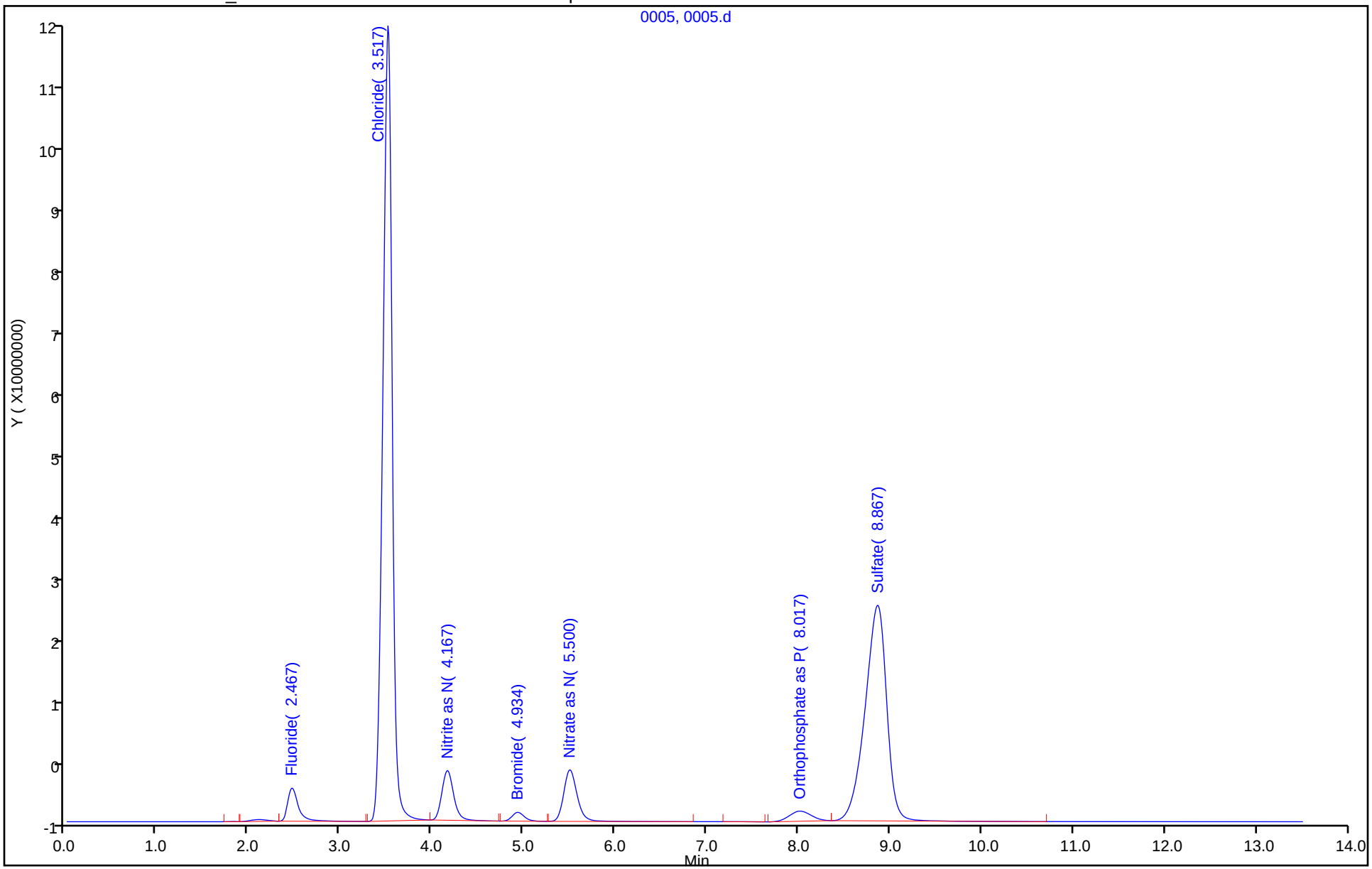
IC LCS_01747 Amount Added: 5.00 Units: mL

Report Date: 01-Jul-2020 08:31:48 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0005.d

Injection Date:	30-Jun-2020 11:23:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	LCSD			Worklist Smp#:	5
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0006.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 30-Jun-2020 11:40:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-006
Misc. Info.: 6 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 08:31:47 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1063

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.109	2.475	-0.366	218359		0.0564	
2 Chloride		3.542				ND	
3 Nitrite as N		4.209				ND	
4 Bromide		5.009				ND	
5 Nitrate as N		5.592				ND	
7 Orthophosphate as P	8.084	8.175	-0.091	126456		NC	
6 Sulfate		9.009				ND	

QC Flag Legend

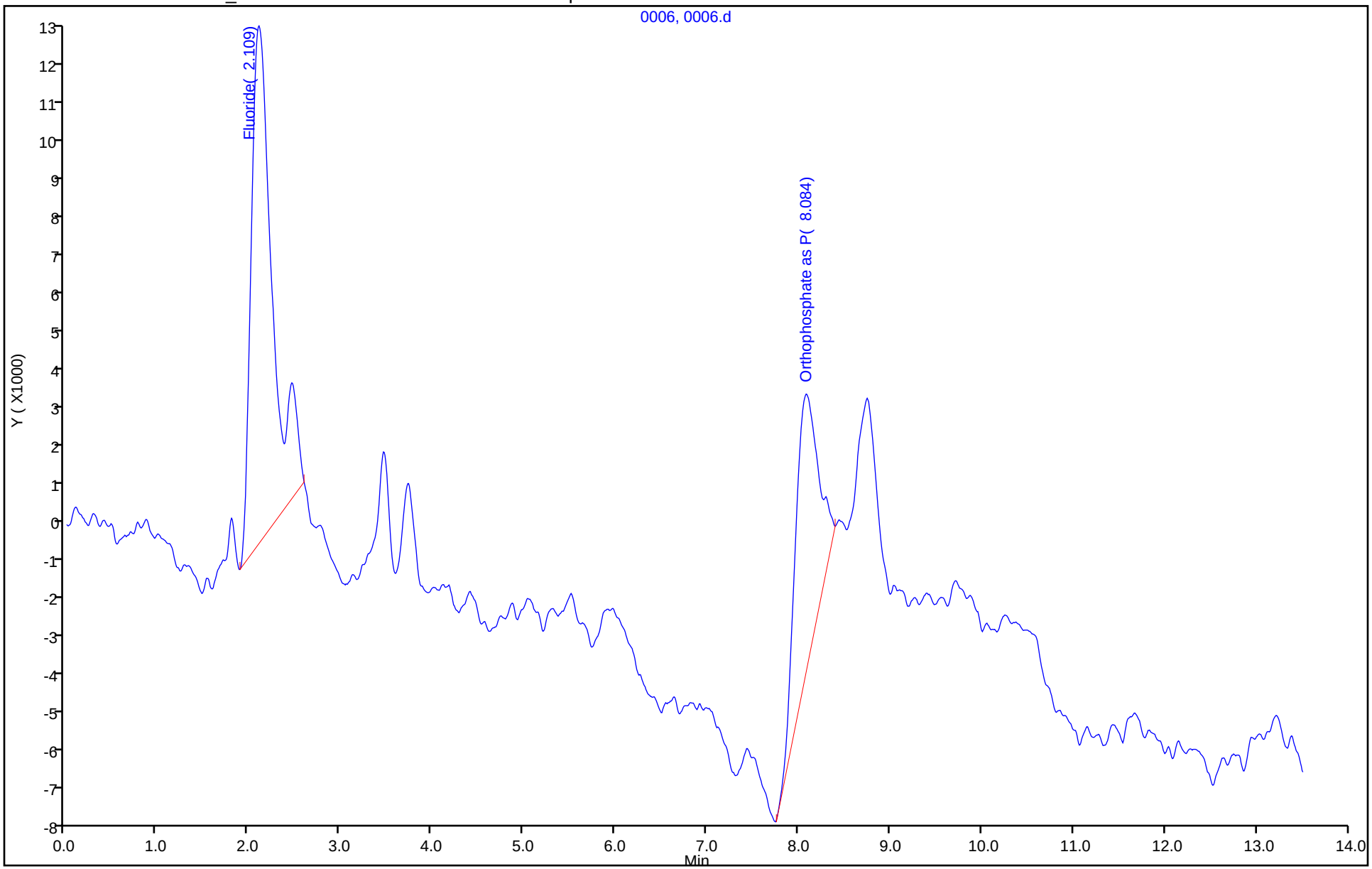
Processing Flags
NC - Not Calibrated

Report Date: 01-Jul-2020 08:31:49 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0006.d

Injection Date:	30-Jun-2020 11:40:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0017.d
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 30-Jun-2020 15:14:00 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-017
Misc. Info.: 17989 F
Operator ID: Instrument ID: WC_IonChrom11
Sublist: chrom-Anions_IC11*sub1

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 10:15:17 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1063

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	39792061	5.00	5.04	
2 Chloride	3.525	3.542	-0.017	823884533	100.0	96.0	
3 Nitrite as N	4.175	4.209	-0.034	65218406	NC	NC	
4 Bromide	4.942	5.009	-0.067	11856184	5.00	4.92	
5 Nitrate as N	5.517	5.592	-0.075	76556140	NC	NC	
7 Orthophosphate as P	8.034	8.175	-0.141	24588169	NC	NC	
6 Sulfate	8.892	9.009	-0.117	517911597	100.0	95.1	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

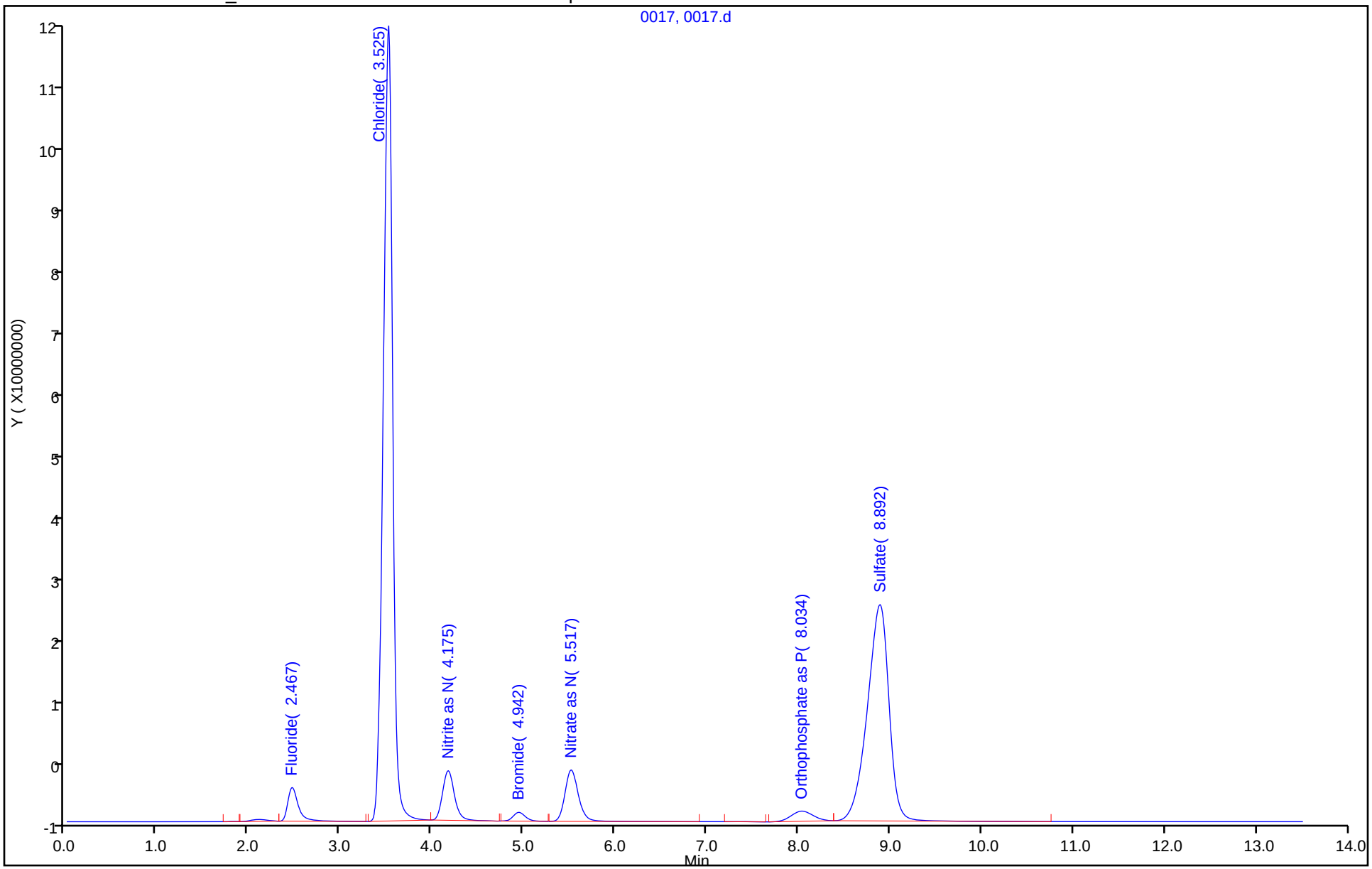
IC LCS_01747 Amount Added: 5.00 Units: mL

Report Date: 01-Jul-2020 10:15:18 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0017.d

Injection Date:	30-Jun-2020 15:14:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	17
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0018.d
Lims ID: ccb
Client ID:
Sample Type: CCB
Inject. Date: 30-Jun-2020 15:31:00 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-018
Misc. Info.: 7237 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 08:31:55 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1063

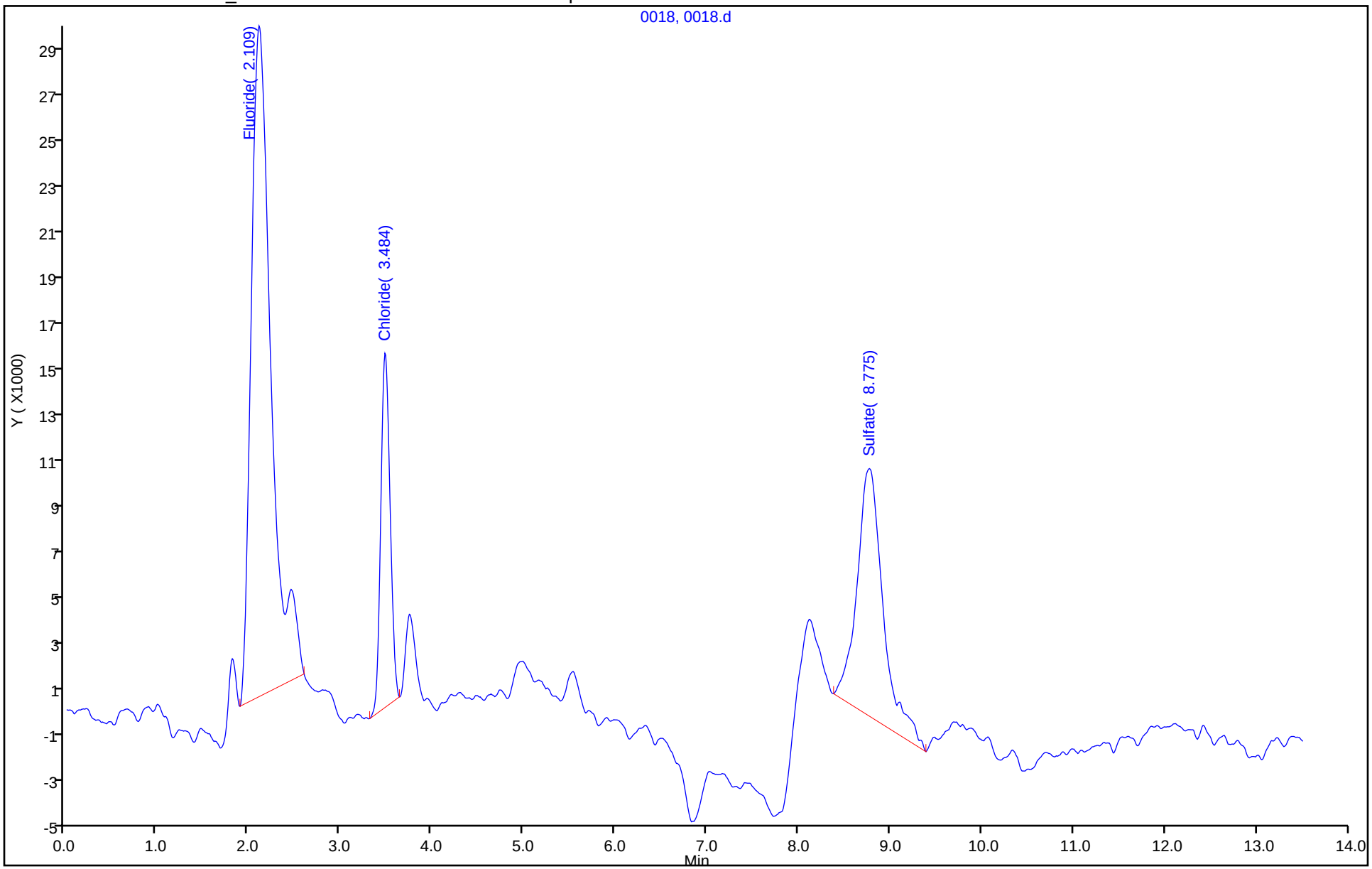
Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.109	2.475	-0.366	443720		0.0848	
2 Chloride	3.484	3.542	-0.058	109095		0.6628	
3 Nitrite as N		4.209				ND	
4 Bromide		5.009				ND	
5 Nitrate as N		5.592				ND	
7 Orthophosphate as P		8.175				ND	
6 Sulfate	8.775	9.009	-0.234	214105		0.5285	

Report Date: 01-Jul-2020 08:31:56 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0018.d

Injection Date:	30-Jun-2020 15:31:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	ccb			Worklist Smp#:	18
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0035.d
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 30-Jun-2020 20:10:00 ALS Bottle#: 0 Worklist Smp#: 35
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-035
Misc. Info.: 30361 F
Operator ID: Instrument ID: WC_IonChrom11
Sublist: chrom-Anions_IC11*sub1

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 08:32:08 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1063

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	40031865	5.00	5.07	
2 Chloride	3.517	3.542	-0.025	823414726	100.0	96.0	
3 Nitrite as N	4.167	4.209	-0.042	64754585	NC	NC	
4 Bromide	4.934	5.009	-0.075	11805699	5.00	4.90	
5 Nitrate as N	5.501	5.592	-0.091	76478535	NC	NC	
7 Orthophosphate as P	8.017	8.175	-0.158	23980461	NC	NC	
6 Sulfate	8.851	9.009	-0.158	517925372	100.0	95.1	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

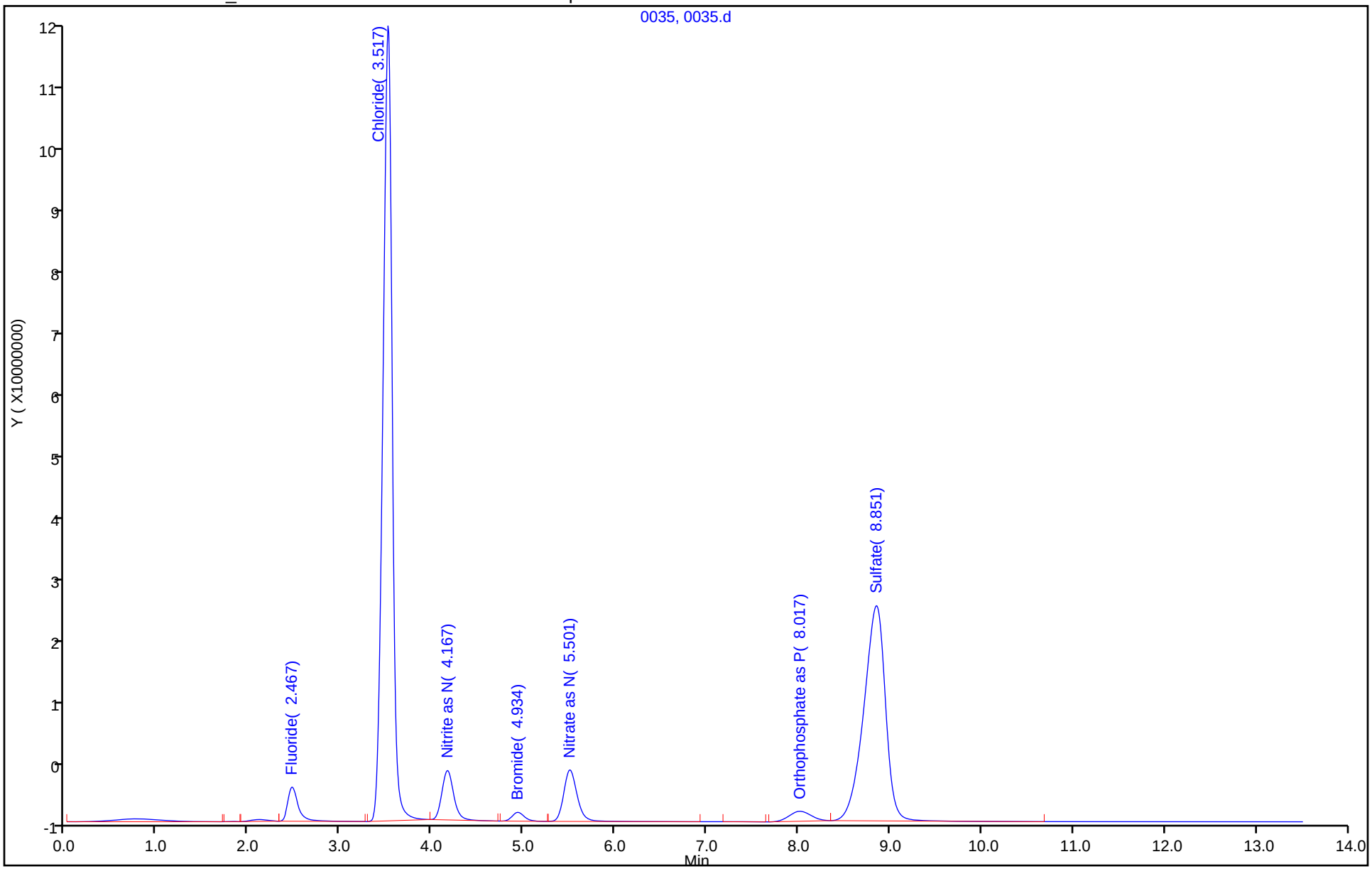
IC LCS_01747 Amount Added: 5.00 Units: mL

Report Date: 01-Jul-2020 08:32:08 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0035.d

Injection Date:	30-Jun-2020 20:10:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	35
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0036.d
Lims ID: ccb
Client ID:
Sample Type: CCB
Inject. Date: 30-Jun-2020 20:27:00 ALS Bottle#: 0 Worklist Smp#: 36
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-036
Misc. Info.: 27173 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 08:32:08 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1063

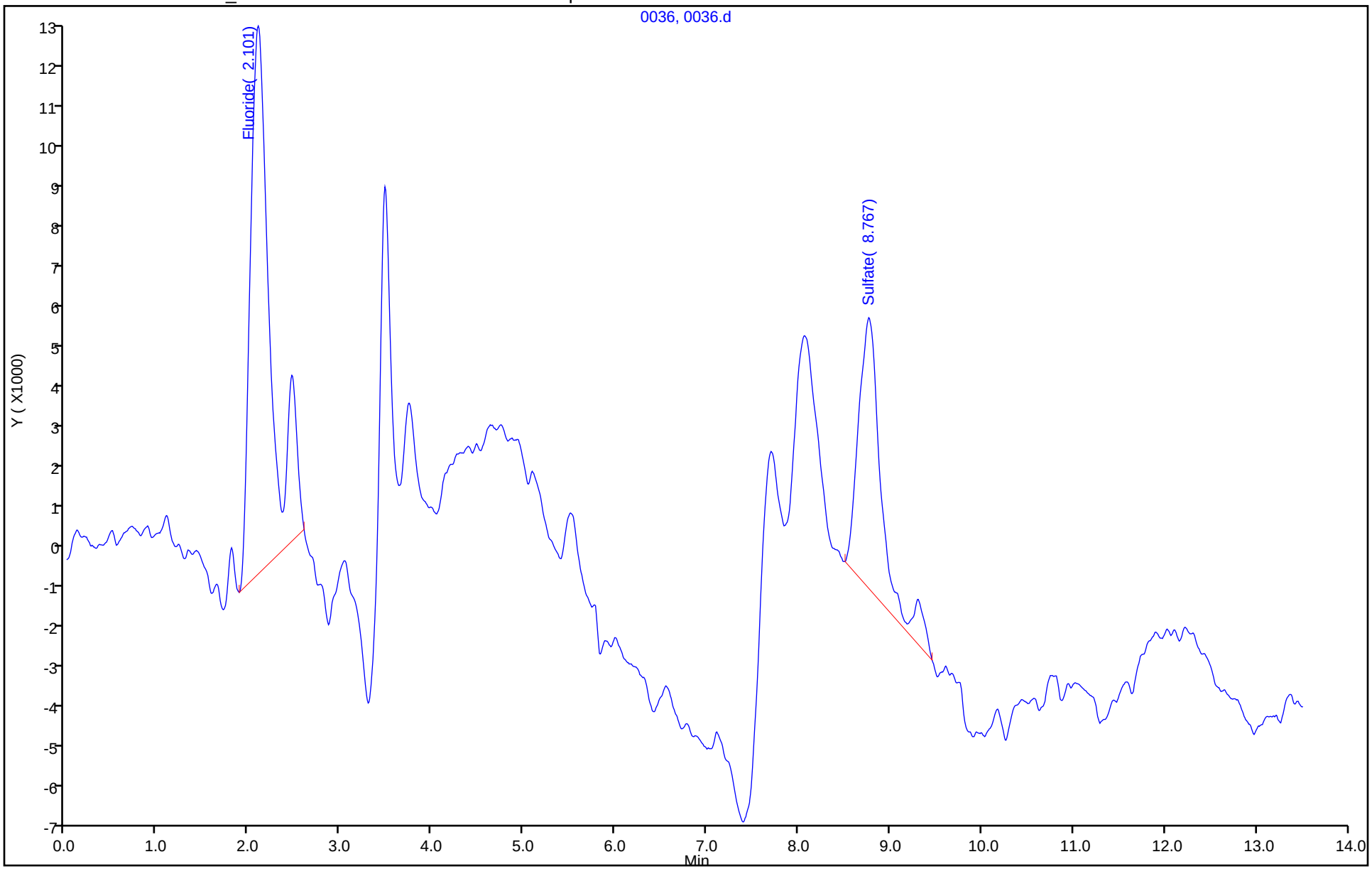
Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.101	2.475	-0.374	197577		0.0538	
2 Chloride		3.542				ND	
3 Nitrite as N		4.209				ND	
4 Bromide		5.009				ND	
5 Nitrate as N		5.592				ND	
7 Orthophosphate as P		8.175				ND	
6 Sulfate	8.767	9.009	-0.242	109775		0.5094	

Report Date: 01-Jul-2020 08:32:08 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0036.d

Injection Date:	30-Jun-2020 20:27:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	ccb			Worklist Smp#:	36
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0042.d
Lims ID: 280-137736-F-3
Client ID: G0091-20A
Sample Type: Client
Inject. Date: 30-Jun-2020 22:05:00 ALS Bottle#: 0 Worklist Smp#: 42
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-042
Misc. Info.: 19936 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 08:32:08 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1063

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	1872392	0.2648	
2 Chloride	3.501	3.542	-0.041	344202779	40.5	
3 Nitrite as N		4.209			ND	
4 Bromide	4.967	5.009	-0.042	551739	0.2379	
5 Nitrate as N	5.534	5.592	-0.058	994307732	NC	
7 Orthophosphate as P	8.151	8.175	-0.024	553077	NC	
6 Sulfate	9.017	9.009	0.008	1034787878	189.5	

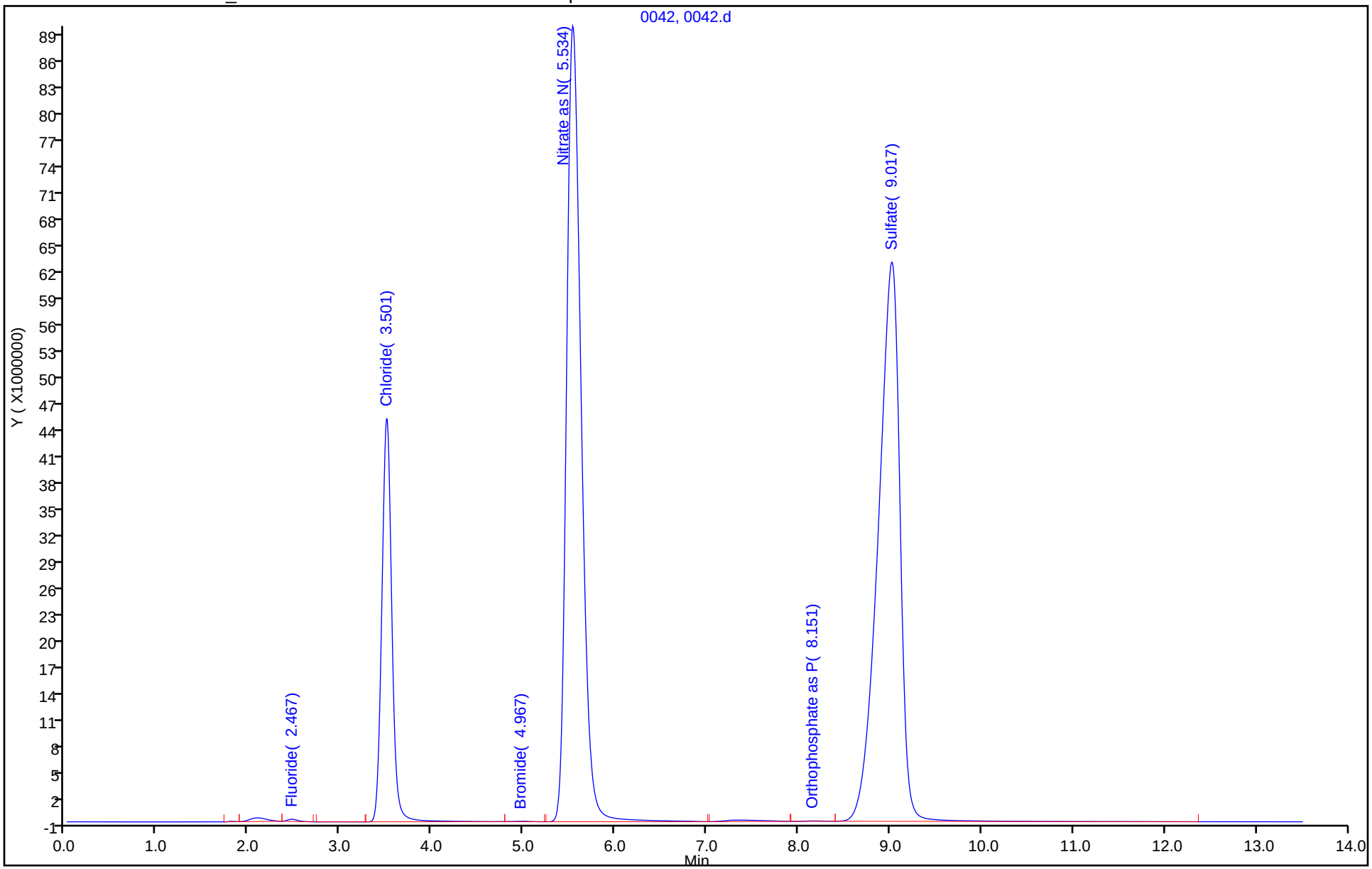
QC Flag Legend

Processing Flags
NC - Not Calibrated

Report Date: 01-Jul-2020 08:32:11 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0042.d				
Injection Date:	30-Jun-2020 22:05:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	280-137736-F-3	Lab Sample ID:	280-137736-3	Worklist Smp#:	42
Client ID:	G0091-20A				
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0043.d				
Lims ID:	280-137736-F-4				
Client ID:	G0123-20A				
Sample Type:	Client				
Inject. Date:	30-Jun-2020 22:22:00	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	10.0 ul	Dil. Factor:	5.0000		
Sample Info:	280-0092899-043				
Misc. Info.:	14226 F				
Operator ID:		Instrument ID:	WC_IonChrom11		
Method:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m				
Limit Group:	Wet - Anions 28D				
Last Update:	01-Jul-2020 08:32:08	Calib Date:	09-Jun-2020 12:09:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d				
Column 1 :			Det: 0005		
Process Host:	CTX1063				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	400860	0.0794	
2 Chloride	3.492	3.542	-0.050	71483913	8.93	
3 Nitrite as N		4.209			ND	
4 Bromide	4.959	5.009	-0.050	151094	0.0721	
5 Nitrate as N	5.542	5.592	-0.050	823880	NC	
7 Orthophosphate as P		8.175			ND	
6 Sulfate	8.917	9.009	-0.092	531513691	97.6	

QC Flag Legend

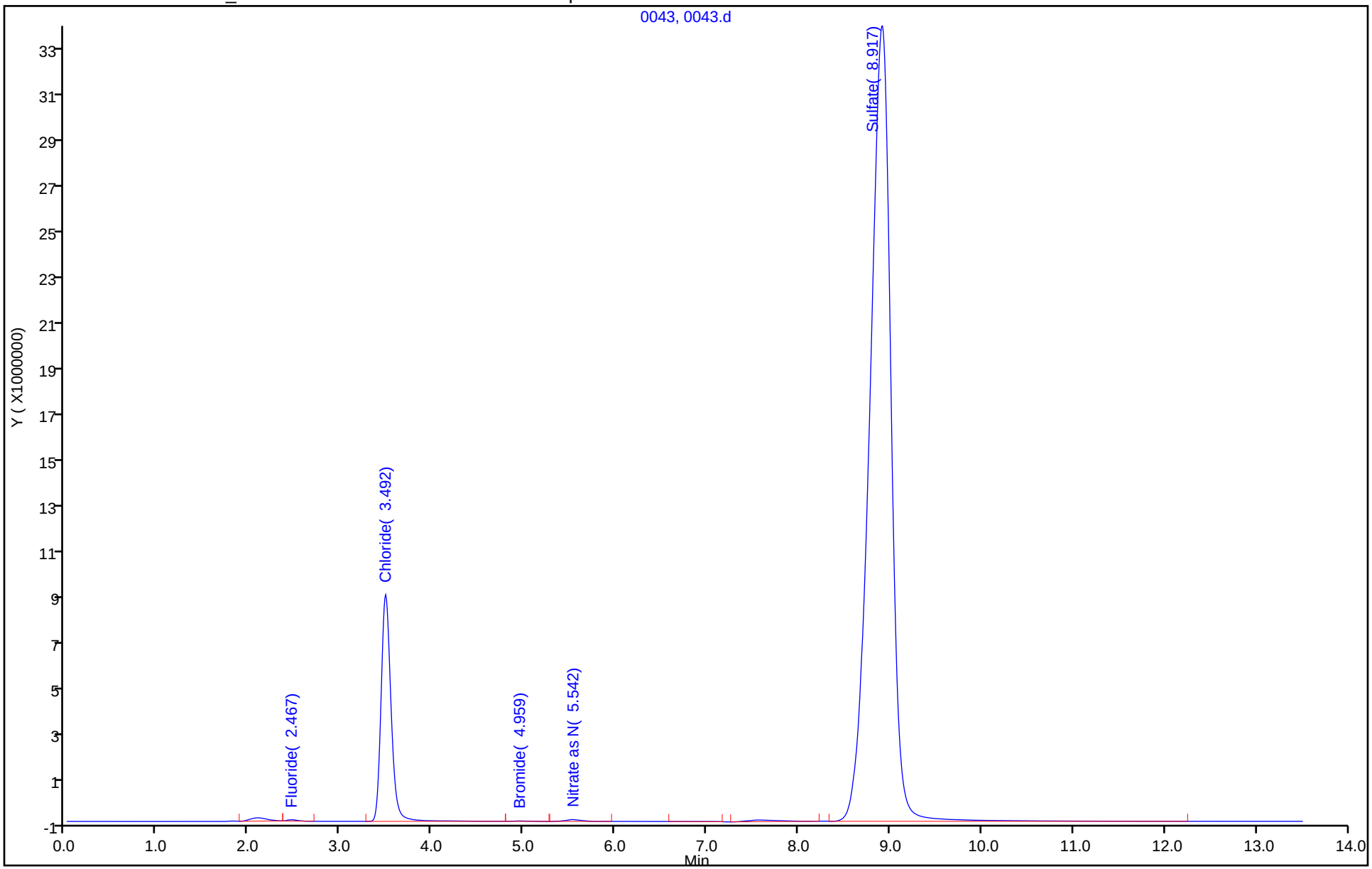
Processing Flags

NC - Not Calibrated

Report Date: 01-Jul-2020 08:32:11 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0043.d				
Injection Date:	30-Jun-2020 22:22:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	280-137736-F-4	Lab Sample ID:	280-137736-4	Worklist Smp#:	43
Client ID:	G0123-20A				
Injection Vol:	10.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0044.d
Lims ID: 280-137736-F-4 DU
Client ID:
Sample Type: DU
Inject. Date: 30-Jun-2020 22:38:00 ALS Bottle#: 0 Worklist Smp#: 44
Injection Vol: 10.0 ul Dil. Factor: 5.0000
Sample Info: 280-0092899-044
Misc. Info.: 4923 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 08:32:08 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1063

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	380922		0.0769	
2 Chloride	3.492	3.542	-0.050	70474251		8.81	
3 Nitrite as N		4.209				ND	
4 Bromide	4.959	5.009	-0.050	136261		0.0660	
5 Nitrate as N	5.542	5.592	-0.050	873385		NC	
7 Orthophosphate as P		8.175				ND	
6 Sulfate	8.909	9.009	-0.100	523790840		96.2	

QC Flag Legend

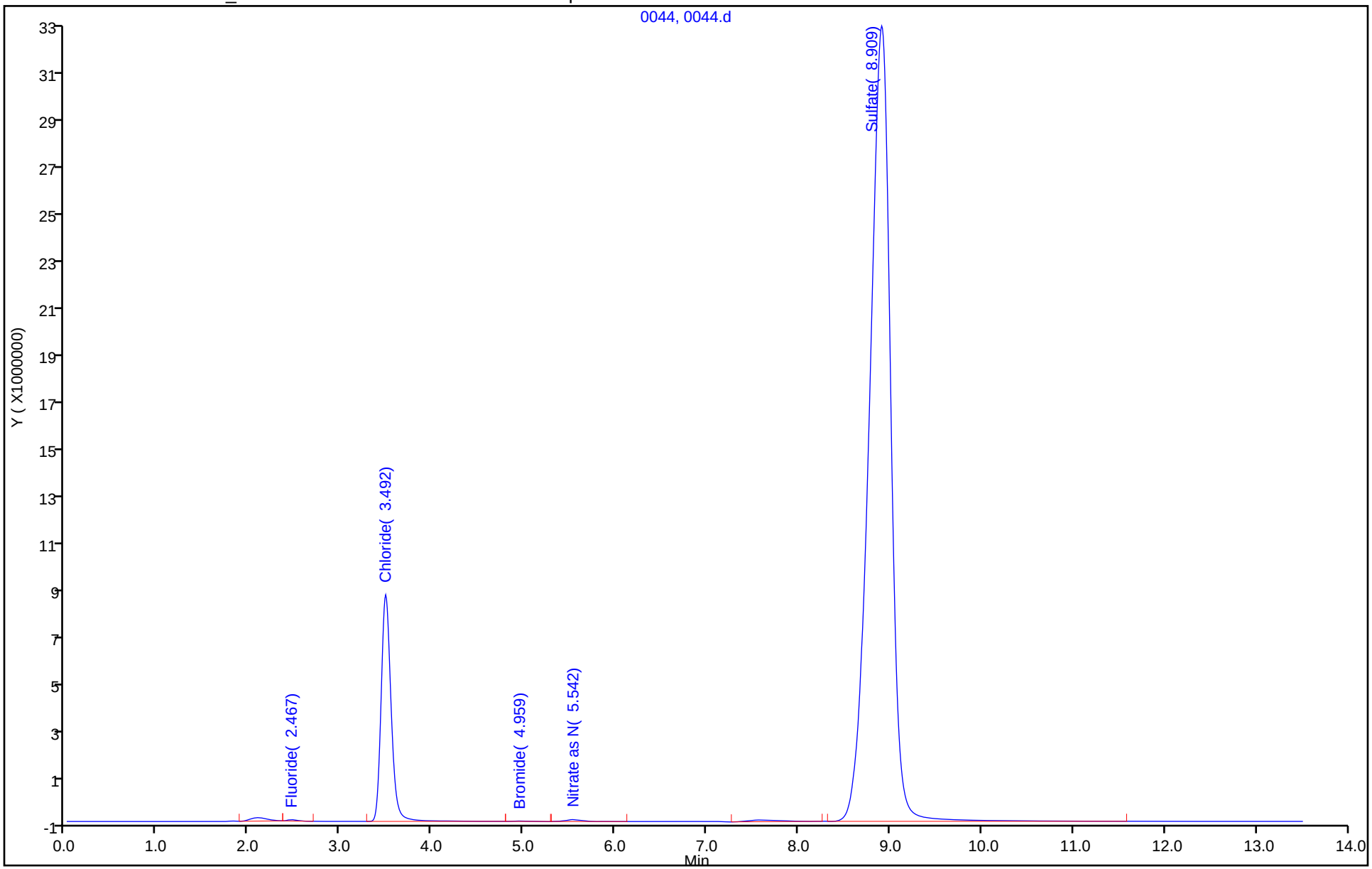
Processing Flags
NC - Not Calibrated

Report Date: 01-Jul-2020 08:32:12 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0044.d

Injection Date:	30-Jun-2020 22:38:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	280-137736-F-4 DU			Worklist Smp#:	44
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0045.d
Lims ID: 280-137736-F-4 MS
Client ID:
Sample Type: MS
Inject. Date: 30-Jun-2020 22:54:00 ALS Bottle#: 0 Worklist Smp#: 45
Injection Vol: 10.0 ul Dil. Factor: 5.0000
Sample Info: 280-0092899-045
Misc. Info.: 9780 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 08:32:08 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1063

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	40227911	1.00	5.10	
2 Chloride	3.509	3.542	-0.033	479926959	10.0	56.2	
3 Nitrite as N	4.175	4.209	-0.034	65910231	NC	NC	
4 Bromide	4.959	5.009	-0.050	12359623	1.00	5.12	
5 Nitrate as N	5.534	5.592	-0.058	77697147	NC	NC	
7 Orthophosphate as P	8.109	8.175	-0.066	21997883	NC	NC	
6 Sulfate	8.950	9.009	-0.059	815326005	10.0	149.4	

QC Flag Legend

Processing Flags
NC - Not Calibrated

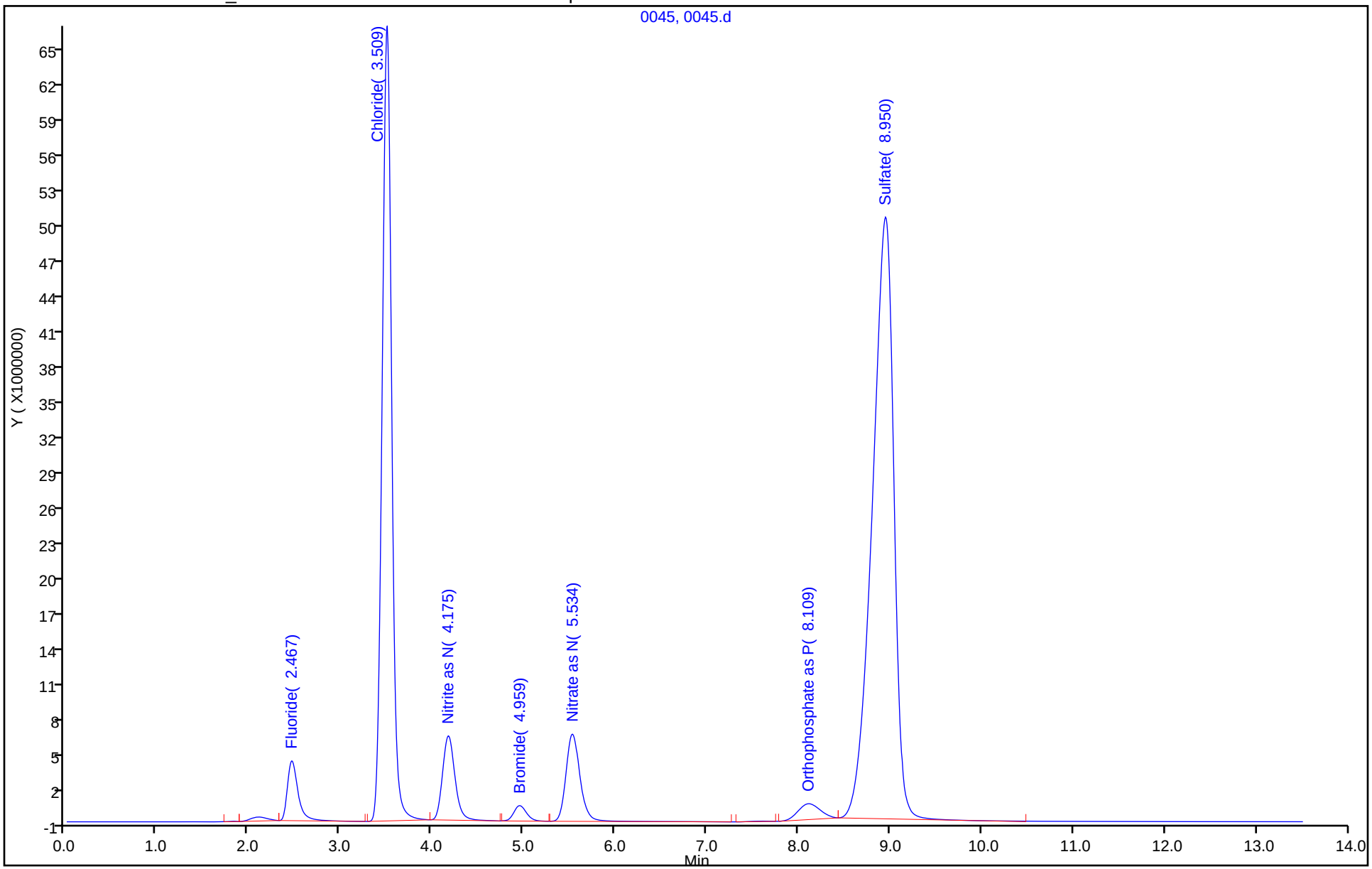
Reagents:

ICMS/MSD WEEK_00655 Amount Added: 0.05 Units: mL

Report Date: 01-Jul-2020 08:32:12 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0045.d				
Injection Date:	30-Jun-2020 22:54:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	280-137736-F-4 MS			Worklist Smp#:	45
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0046.d
Lims ID: 280-137736-F-4 MSD
Client ID:
Sample Type: MSD
Inject. Date: 30-Jun-2020 23:11:00 ALS Bottle#: 0 Worklist Smp#: 46
Injection Vol: 10.0 ul Dil. Factor: 5.0000
Sample Info: 280-0092899-046
Misc. Info.: 27354 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 08:32:08 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1063

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	38959602	1.00	4.94	
2 Chloride	3.509	3.542	-0.033	470977046	10.0	55.2	
3 Nitrite as N	4.175	4.209	-0.034	64204989	NC	NC	
4 Bromide	4.959	5.009	-0.050	12081279	1.00	5.01	
5 Nitrate as N	5.534	5.592	-0.058	75913483	NC	NC	
7 Orthophosphate as P	8.117	8.175	-0.058	17845682	NC	NC	
6 Sulfate	8.959	9.009	-0.050	811665029	10.0	148.8	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

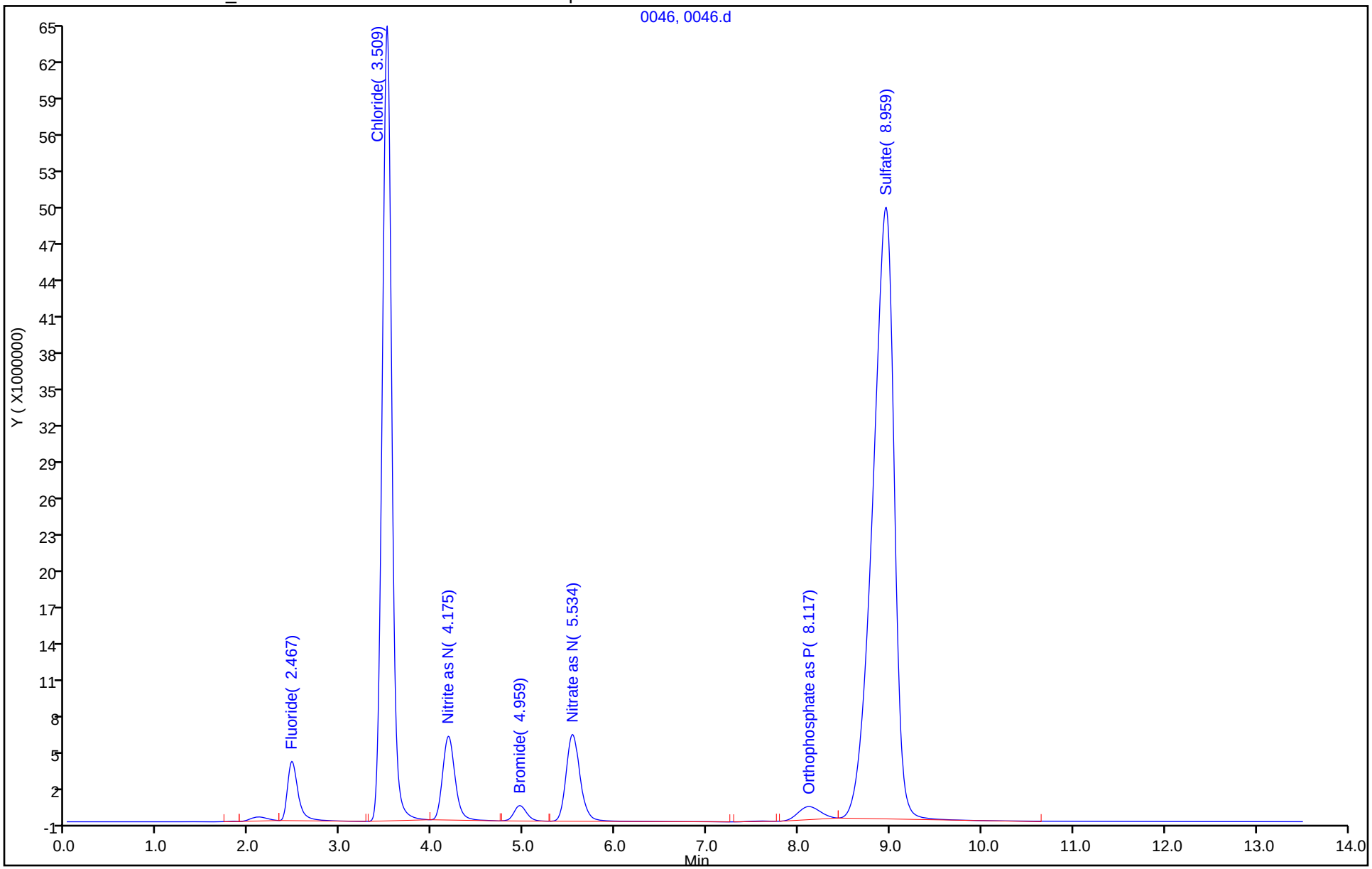
ICMS/MSD WEEK_00655 Amount Added: 0.05 Units: mL

Report Date: 01-Jul-2020 08:32:13 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0046.d

Injection Date:	30-Jun-2020 23:11:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	280-137736-F-4 MSD			Worklist Smp#:	46
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0047.d
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 30-Jun-2020 23:27:00 ALS Bottle#: 0 Worklist Smp#: 47
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-047
Misc. Info.: 5606 F
Operator ID: Instrument ID: WC_IonChrom11
Sublist: chrom-Anions_IC11*sub1

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 08:32:13 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1063

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	40808893	5.00	5.17	
2 Chloride	3.525	3.542	-0.017	824138515	100.0	96.1	
3 Nitrite as N	4.175	4.209	-0.034	66163071	NC	NC	
4 Bromide	4.959	5.009	-0.050	11827573	5.00	4.90	
5 Nitrate as N	5.525	5.592	-0.067	76379488	NC	NC	
7 Orthophosphate as P	8.050	8.175	-0.125	24779468	NC	NC	
6 Sulfate	8.884	9.009	-0.125	518160510	100.0	95.1	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

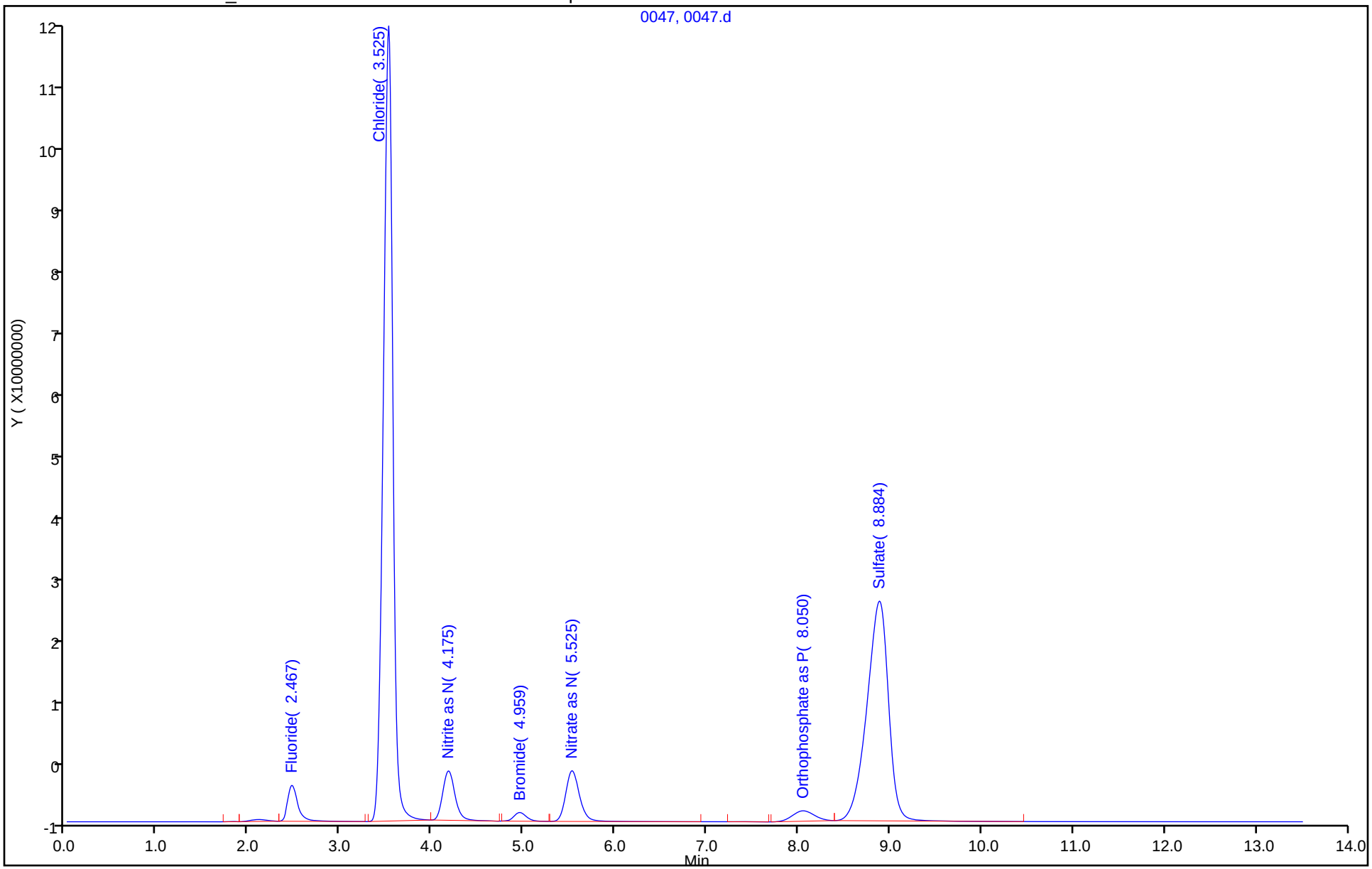
IC LCS_01747 Amount Added: 5.00 Units: mL

Report Date: 01-Jul-2020 08:32:13 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0047.d

Injection Date:	30-Jun-2020 23:27:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	47
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0048.d				
Lims ID:	ccb				
Client ID:					
Sample Type:	CCB				
Inject. Date:	30-Jun-2020 23:44:00	ALS Bottle#:	0	Worklist Smp#:	48
Injection Vol:	10.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-0092899-048				
Misc. Info.:	5303 F				
Operator ID:		Instrument ID:	WC_IonChrom11		
Method:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m				
Limit Group:	Wet - Anions 28D				
Last Update:	01-Jul-2020 08:32:13	Calib Date:	09-Jun-2020 12:09:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d				
Column 1 :			Det: 0005		
Process Host:	CTX1063				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.092	2.475	-0.383	162467		0.0494	
2 Chloride		3.542				ND	
3 Nitrite as N		4.209				ND	
4 Bromide		5.009				ND	
5 Nitrate as N		5.592				ND	
7 Orthophosphate as P	7.717	8.175	-0.458	137365		NC	
6 Sulfate	8.784	9.009	-0.225	200443		0.5260	

QC Flag Legend

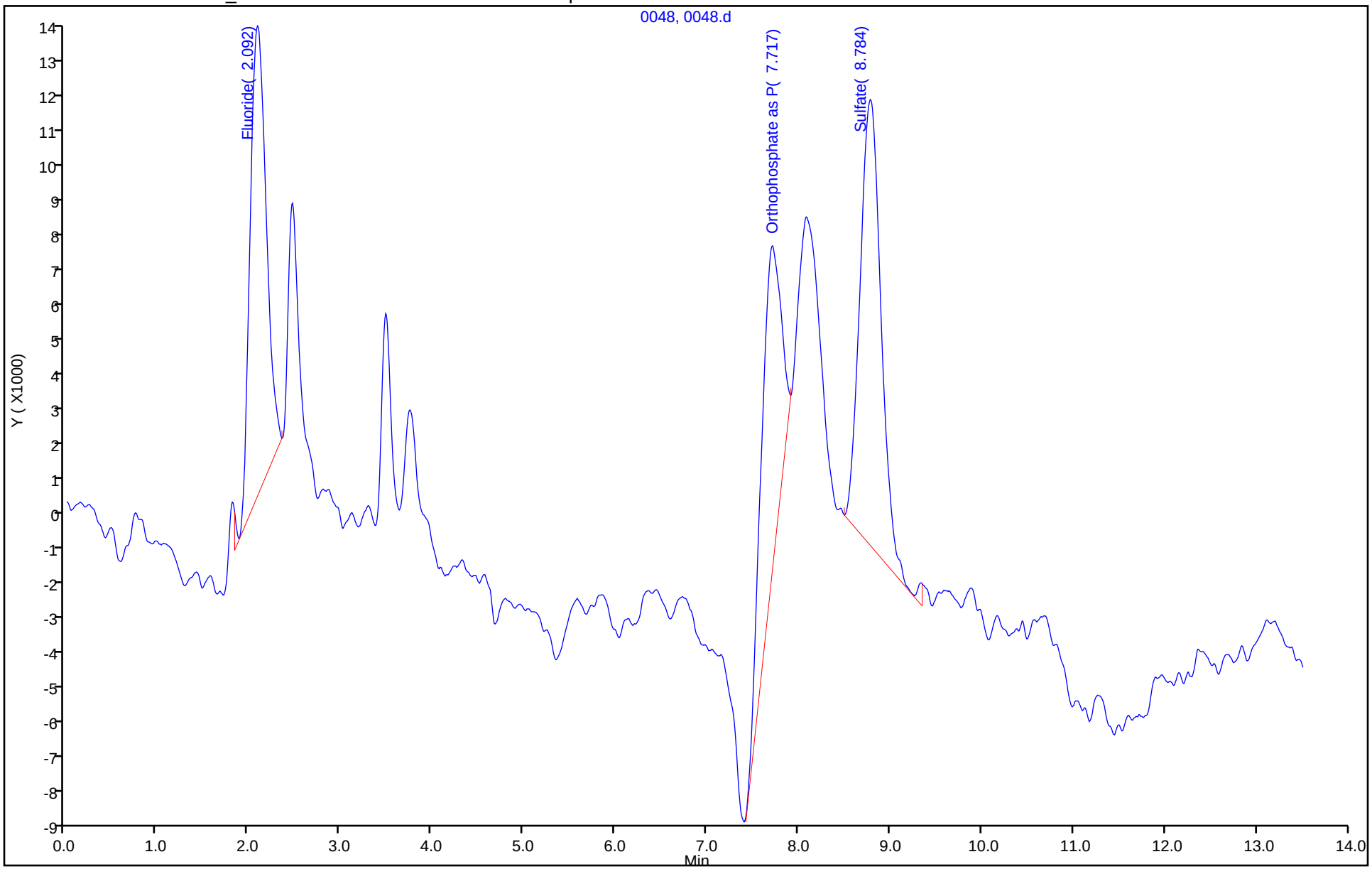
Processing Flags
NC - Not Calibrated

Report Date: 01-Jul-2020 08:32:14 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0048.d

Injection Date:	30-Jun-2020 23:44:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	ccb			Worklist Smp#:	48
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0049.d
Lims ID: 280-137736-F-5
Client ID: G0122-20A
Sample Type: Client
Inject. Date: 01-Jul-2020 00:00:00 ALS Bottle#: 0 Worklist Smp#: 49
Injection Vol: 10.0 ul Dil. Factor: 5.0000
Sample Info: 280-0092899-049
Misc. Info.: 6036 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 10:15:17 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1021

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	384520	0.0774	
2 Chloride	3.492	3.542	-0.050	98458407	12.0	
3 Nitrite as N		4.209			ND	
4 Bromide	4.959	5.009	-0.050	338636	0.1497	
5 Nitrate as N	5.542	5.592	-0.050	2724860	NC	
7 Orthophosphate as P	8.117	8.175	-0.058	162944	NC	
6 Sulfate	8.950	9.009	-0.059	760763006	139.5	

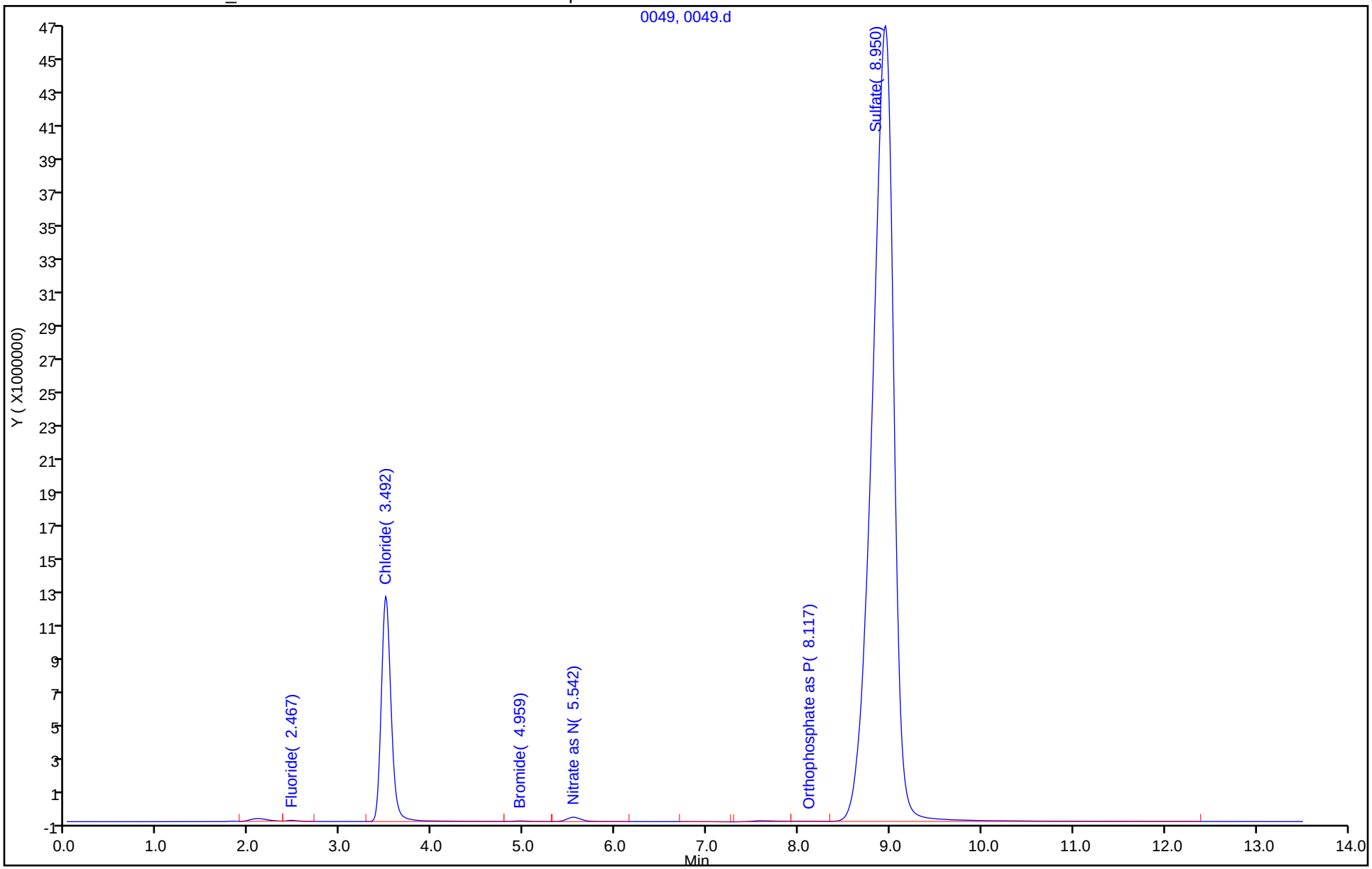
QC Flag Legend

Processing Flags
NC - Not Calibrated

Report Date: 01-Jul-2020 14:22:14 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0049.d				
Injection Date:	01-Jul-2020 00:00:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	280-137736-F-5	Lab Sample ID:	280-137736-5	Worklist Smp#:	49
Client ID:	G0122-20A				
Injection Vol:	10.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0050.d
Lims ID: 280-137736-F-7
Client ID: G0296-20A
Sample Type: Client
Inject. Date: 01-Jul-2020 00:16:00 ALS Bottle#: 0 Worklist Smp#: 50
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-050
Misc. Info.: 21380 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 10:15:17 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1021

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride	2.475	2.475	0.000	2367955	0.3273	
2 Chloride	3.509	3.542	-0.033	239382494	28.4	
3 Nitrite as N		4.209			ND	
4 Bromide	4.984	5.009	-0.025	292284	0.1305	
5 Nitrate as N	5.559	5.592	-0.033	500794884	NC	
7 Orthophosphate as P	8.142	8.175	-0.033	195887	NC	
6 Sulfate	8.942	9.009	-0.067	459462050	84.4	

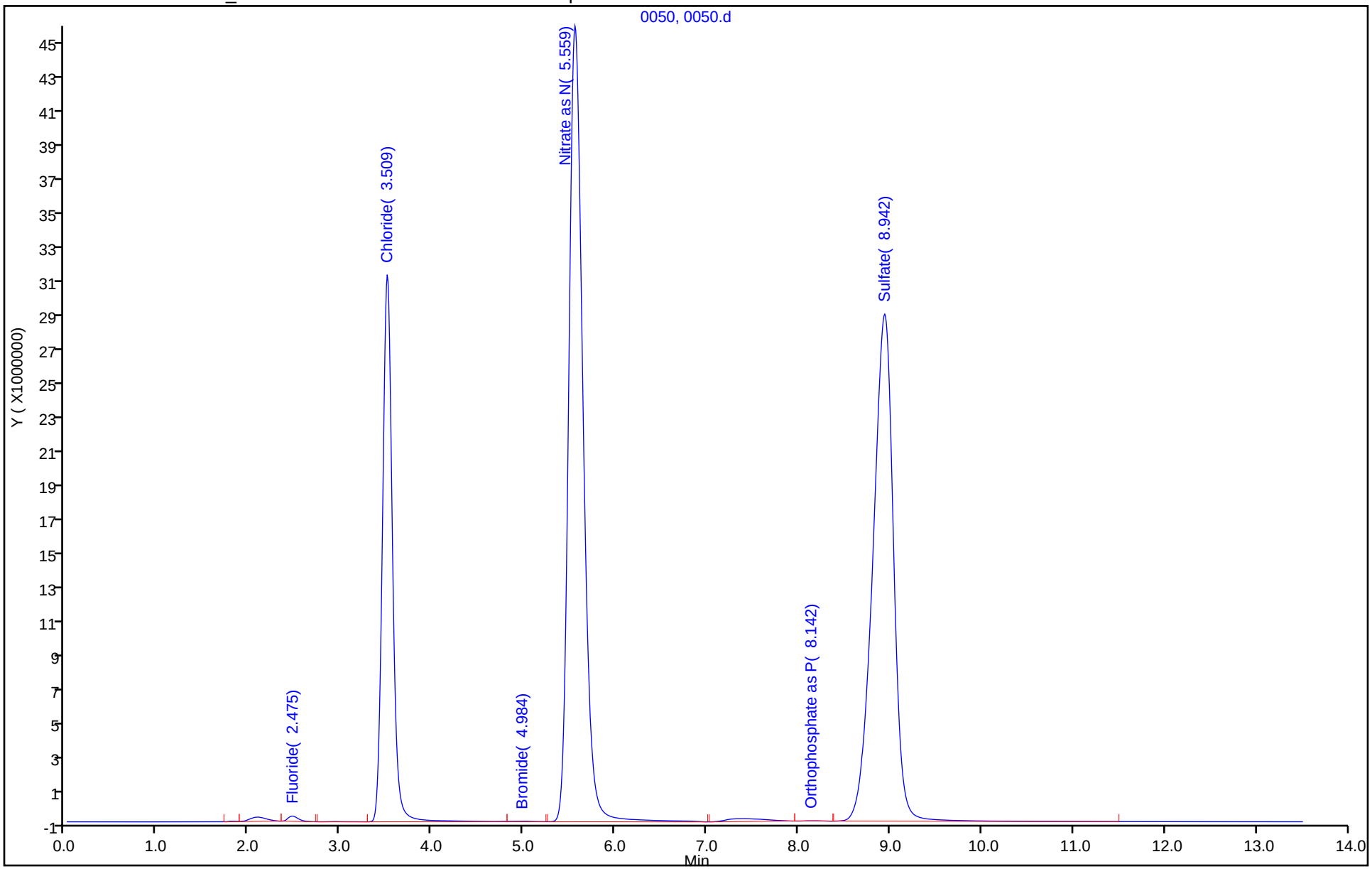
QC Flag Legend

Processing Flags
NC - Not Calibrated

Report Date: 01-Jul-2020 14:22:16 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0050.d				
Injection Date:	01-Jul-2020 00:16:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	280-137736-F-7	Lab Sample ID:	280-137736-7	Worklist Smp#:	50
Client ID:	G0296-20A				
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0051.d
Lims ID: 280-137736-F-8
Client ID: G0092-20A
Sample Type: Client
Inject. Date: 01-Jul-2020 00:33:00 ALS Bottle#: 0 Worklist Smp#: 51
Injection Vol: 10.0 ul Dil. Factor: 5.0000
Sample Info: 280-0092899-051
Misc. Info.: 19152 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 10:15:17 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1021

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride	2.475	2.475	0.000	171176	0.0505	
2 Chloride	3.500	3.542	-0.042	56636658	7.21	
3 Nitrite as N		4.209			ND	
4 Bromide	4.975	5.009	-0.034	206782	0.0951	
5 Nitrate as N	5.550	5.592	-0.042	601211	NC	
7 Orthophosphate as P		8.175			ND	
6 Sulfate	8.884	9.009	-0.125	357153096	65.7	

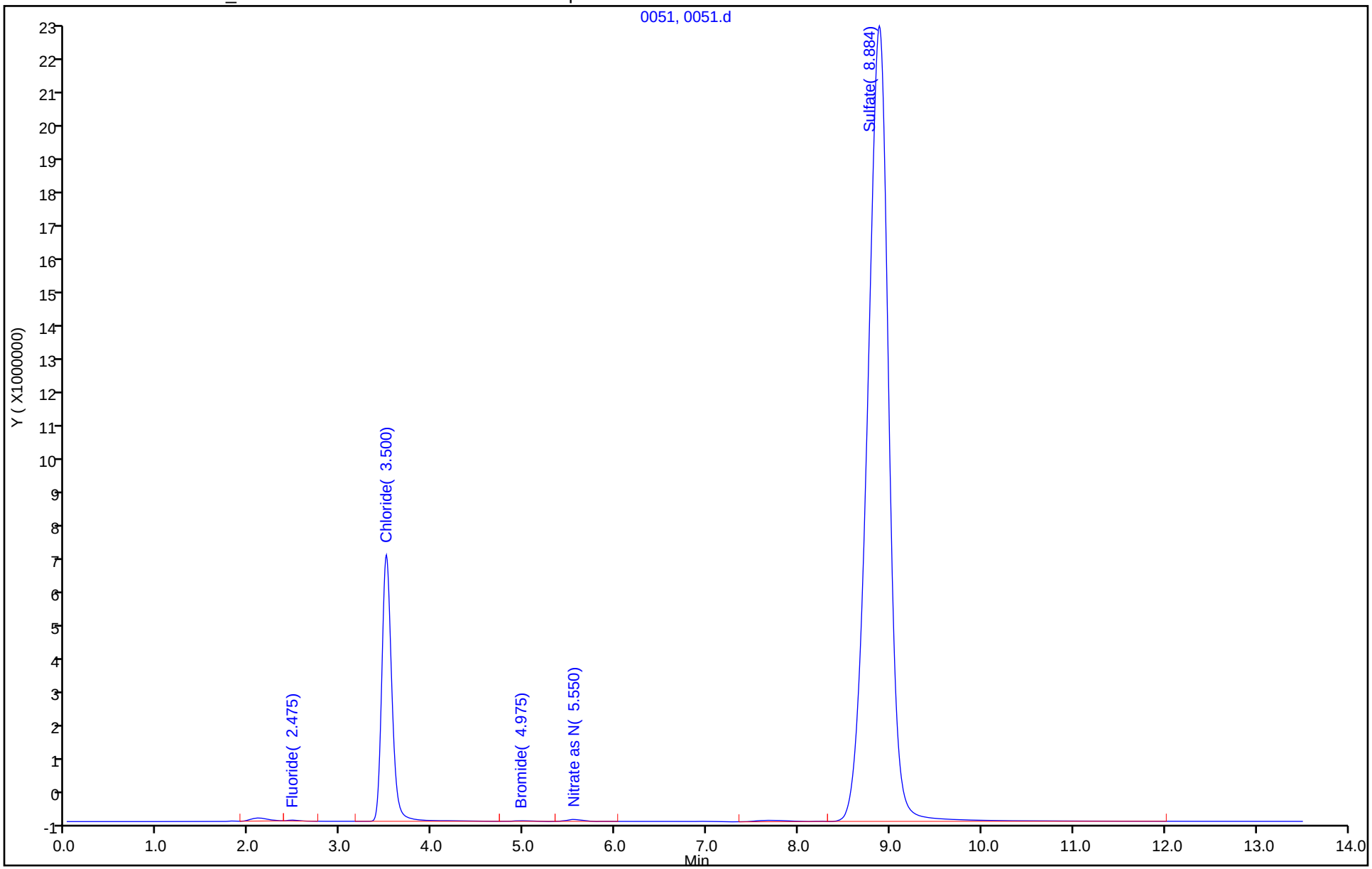
QC Flag Legend

Processing Flags
NC - Not Calibrated

Report Date: 01-Jul-2020 14:22:16 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0051.d				
Injection Date:	01-Jul-2020 00:33:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	280-137736-F-8	Lab Sample ID:	280-137736-8	Worklist Smp#:	51
Client ID:	G0092-20A				
Injection Vol:	10.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0052.d
Lims ID: 280-137736-F-9
Client ID: PZ019-20A
Sample Type: Client
Inject. Date: 01-Jul-2020 00:49:00 ALS Bottle#: 0 Worklist Smp#: 52
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-052
Misc. Info.: 14726 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 10:15:17 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1021

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride	2.475	2.475	0.000	673031	0.1137	
2 Chloride	3.500	3.542	-0.042	121390162	14.7	
3 Nitrite as N		4.209			ND	
4 Bromide	4.967	5.009	-0.042	191250	0.0887	
5 Nitrate as N	5.534	5.592	-0.058	750159742	NC	
7 Orthophosphate as P	8.125	8.175	-0.050	228587	NC	
6 Sulfate	8.900	9.009	-0.109	315251215	58.1	

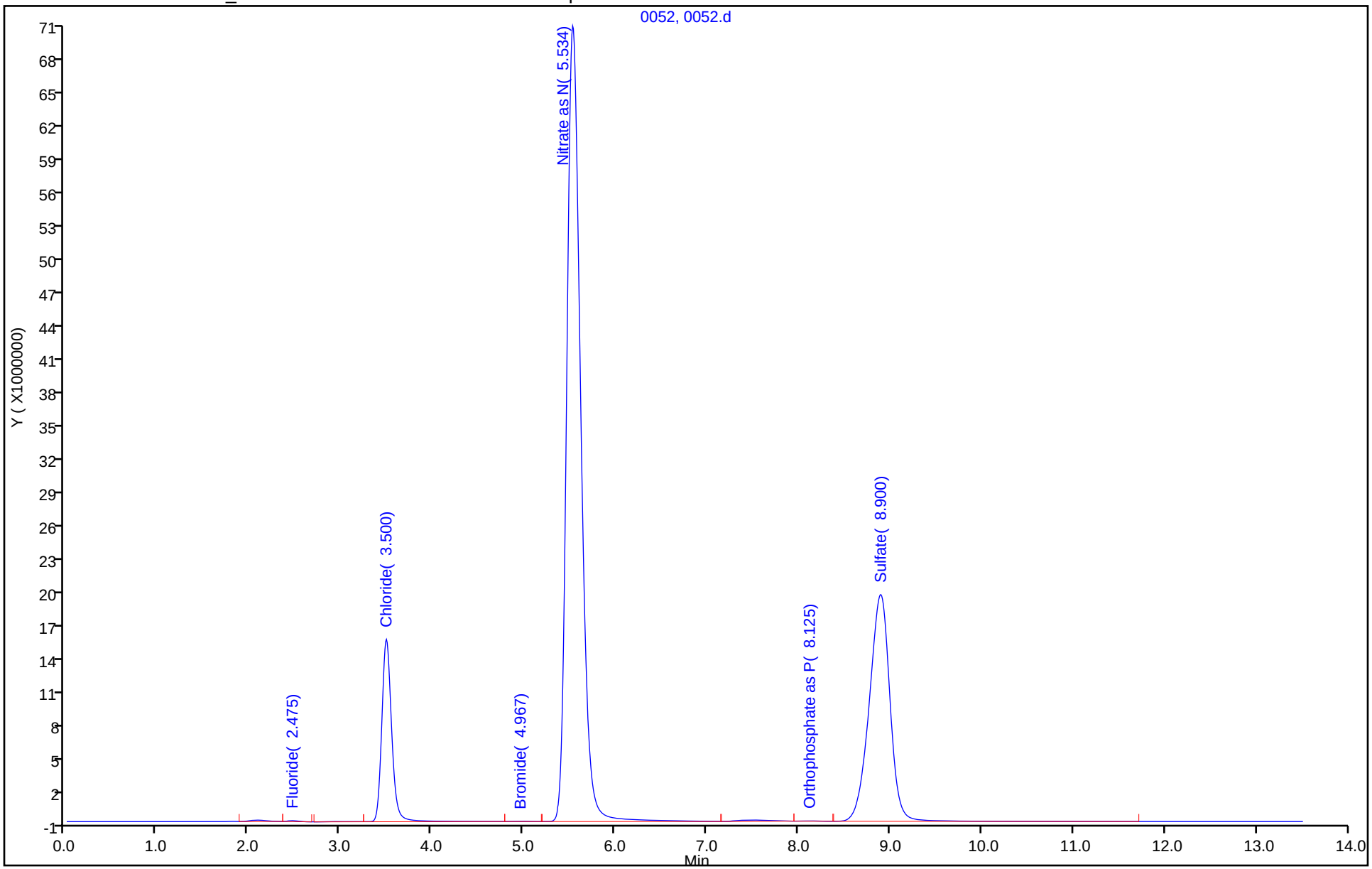
QC Flag Legend

Processing Flags
NC - Not Calibrated

Report Date: 01-Jul-2020 14:22:16 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0052.d				
Injection Date:	01-Jul-2020 00:49:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	280-137736-F-9	Lab Sample ID:	280-137736-9	Worklist Smp#:	52
Client ID:	PZ019-20A				
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0053.d
Lims ID: 280-137736-F-9 DU
Client ID:
Sample Type: DU
Inject. Date: 01-Jul-2020 01:06:00 ALS Bottle#: 0 Worklist Smp#: 53
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-053
Misc. Info.: 11718 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 10:15:17 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1021

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.475	2.475	0.000	666675		0.1129	
2 Chloride	3.500	3.542	-0.042	121469529		14.7	
3 Nitrite as N		4.209				ND	
4 Bromide	4.967	5.009	-0.042	189354		0.0879	
5 Nitrate as N	5.534	5.592	-0.058	750493234		NC	
7 Orthophosphate as P	8.109	8.175	-0.066	231442		NC	
6 Sulfate	8.892	9.009	-0.117	315323940		58.1	

QC Flag Legend

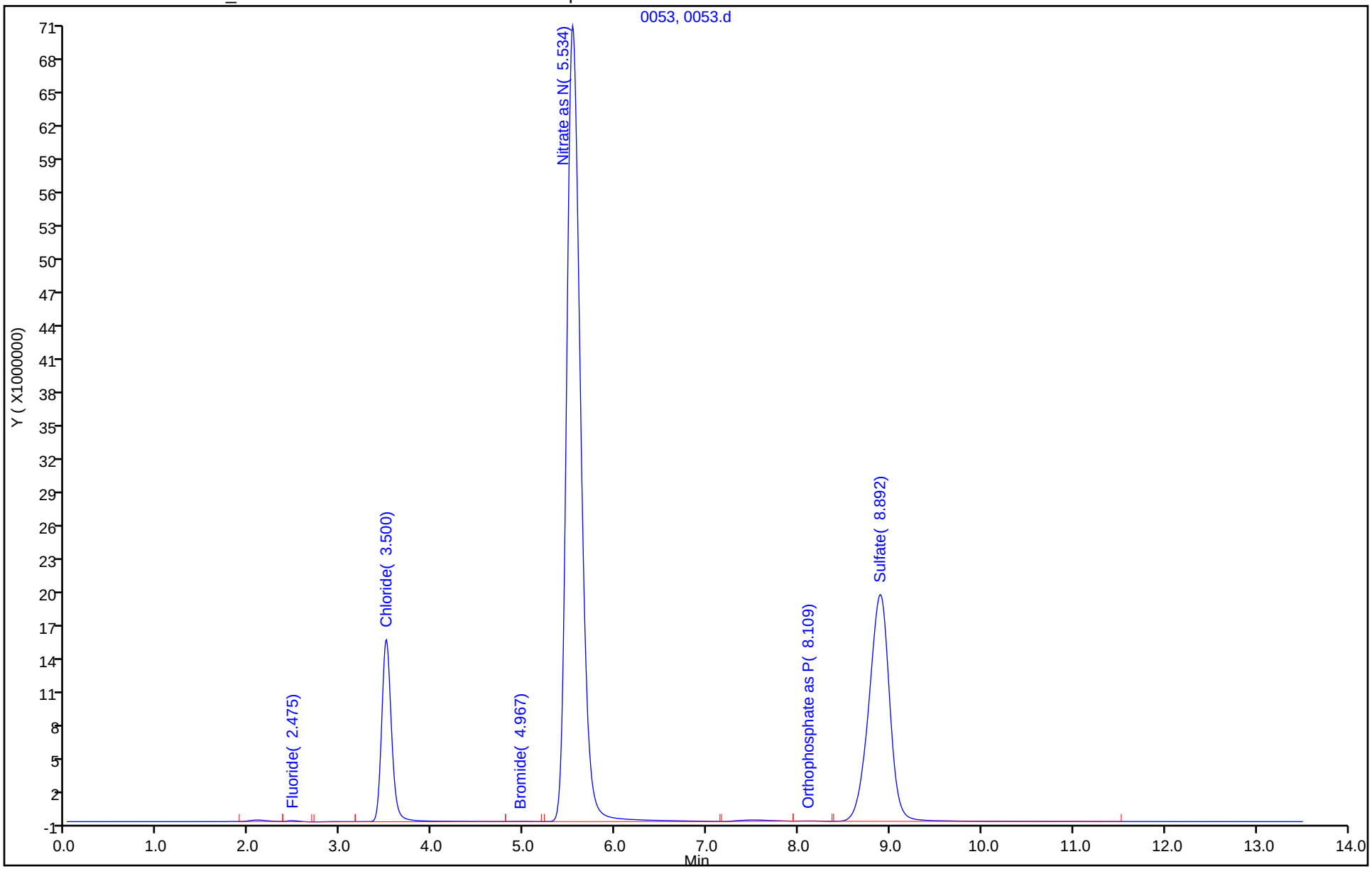
Processing Flags
NC - Not Calibrated

Report Date: 01-Jul-2020 14:22:17 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0053.d

Injection Date:	01-Jul-2020 01:06:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	280-137736-F-9 DU			Worklist Smp#:	53
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0054.d
Lims ID: 280-137736-F-9 MS
Client ID: PZ019-20A
Sample Type: MS
Inject. Date: 01-Jul-2020 01:22:00 ALS Bottle#: 0 Worklist Smp#: 54
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-054
Misc. Info.: 5454 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 10:15:17 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1021

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	45798377	5.00	5.80	
2 Chloride	3.517	3.542	-0.025	573162386	50.0	67.0	
3 Nitrite as N	4.184	4.209	-0.025	70429576	NC	NC	
4 Bromide	4.967	5.009	-0.042	13162278	5.00	5.46	
5 Nitrate as N	5.534	5.592	-0.058	863041472	NC	NC	
7 Orthophosphate as P	8.217	8.175	0.042	71377307	NC	NC	
6 Sulfate	8.951	9.009	-0.058	605259137	50.0	111.1	

QC Flag Legend

Processing Flags
NC - Not Calibrated

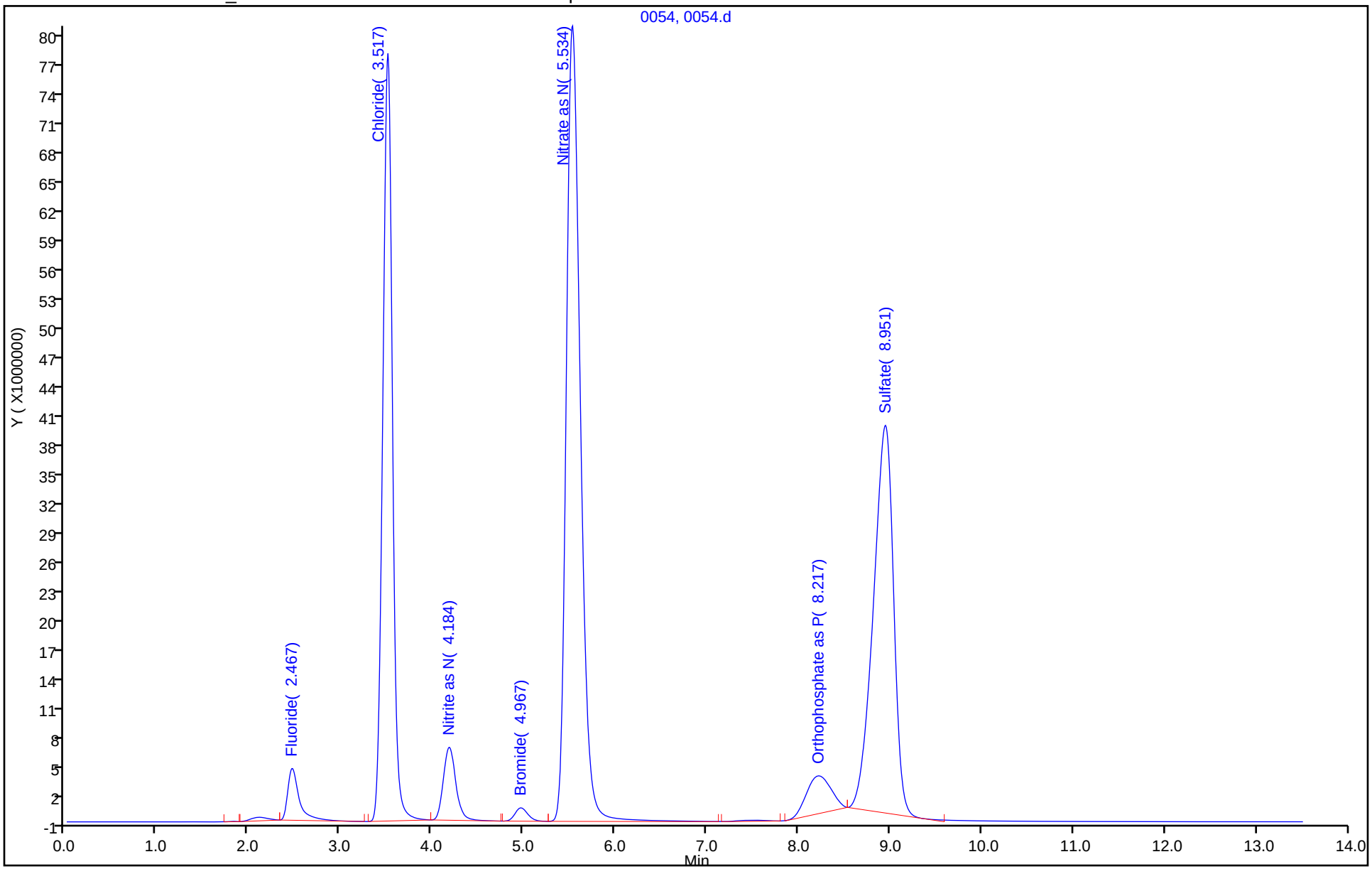
Reagents:

ICMS/MSD WEEK_00655 Amount Added: 0.05 Units: mL

Report Date: 01-Jul-2020 14:22:17 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0054.d				
Injection Date:	01-Jul-2020 01:22:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	280-137736-F-9 MS			Worklist Smp#:	54
Client ID:	PZ019-20A				
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0055.d
Lims ID: 280-137736-F-9 MSD
Client ID: PZ019-20A
Sample Type: MSD
Inject. Date: 01-Jul-2020 01:38:00 ALS Bottle#: 0 Worklist Smp#: 55
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-055
Misc. Info.: 16783 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 10:15:17 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1021

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	45409787	5.00	5.75	
2 Chloride	3.517	3.542	-0.025	562779864	50.0	65.8	
3 Nitrite as N	4.184	4.209	-0.025	68859628	NC	NC	
4 Bromide	4.967	5.009	-0.042	12848884	5.00	5.33	
5 Nitrate as N	5.534	5.592	-0.058	859786520	NC	NC	
7 Orthophosphate as P	8.217	8.175	0.042	84927035	NC	NC	
6 Sulfate	8.950	9.009	-0.059	596044877	50.0	109.4	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

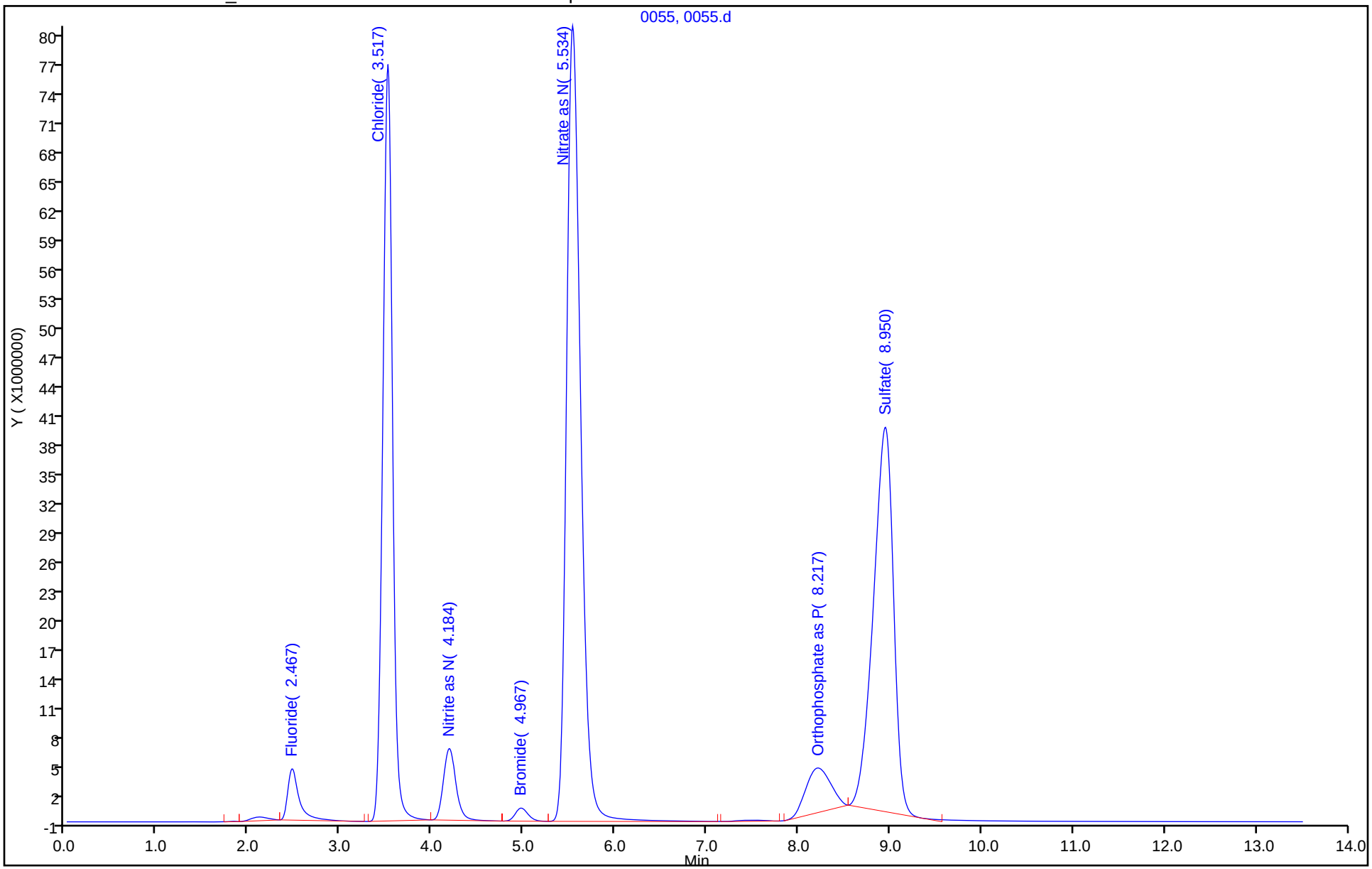
ICMS/MSD WEEK_00655 Amount Added: 0.05 Units: mL

Report Date: 01-Jul-2020 14:22:17 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0055.d

Injection Date:	01-Jul-2020 01:38:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	280-137736-F-9 MSD			Worklist Smp#:	55
Client ID:	PZ019-20A				
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0056.d
Lims ID: 280-137736-F-10
Client ID: PZ020-20A
Sample Type: Client
Inject. Date: 01-Jul-2020 01:55:00 ALS Bottle#: 0 Worklist Smp#: 56
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-056
Misc. Info.: 17717 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 10:15:17 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1021

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	2382237	0.3291	
2 Chloride	3.509	3.542	-0.033	237779134	28.2	
3 Nitrite as N		4.209			ND	
4 Bromide	4.984	5.009	-0.025	345920	0.1527	
5 Nitrate as N	5.559	5.592	-0.033	778113213	NC	
7 Orthophosphate as P	8.150	8.175	-0.025	947667	NC	
6 Sulfate	9.025	9.009	0.016	1049023619	192.1	

QC Flag Legend

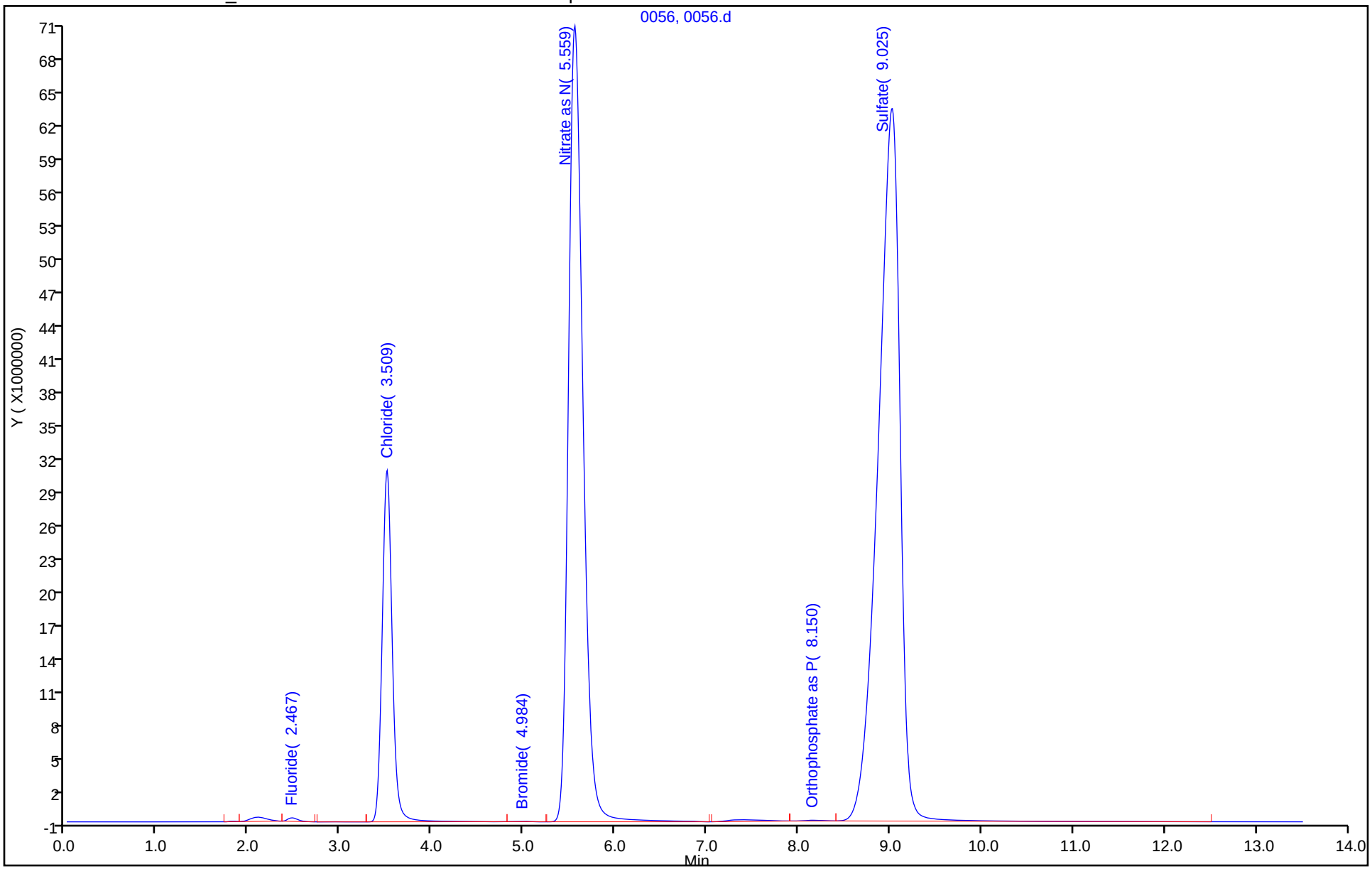
Processing Flags
NC - Not Calibrated

Report Date: 01-Jul-2020 14:22:17 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0056.d

Injection Date:	01-Jul-2020 01:55:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	280-137736-F-10	Lab Sample ID:	280-137736-10	Worklist Smp#:	56
Client ID:	PZ020-20A				
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0057.d
Lims ID: 280-137736-F-11
Client ID: G0087-20A
Sample Type: Client
Inject. Date: 01-Jul-2020 02:11:00 ALS Bottle#: 0 Worklist Smp#: 57
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-057
Misc. Info.: 20021 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 10:15:17 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1021

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	1520907	0.2206	
2 Chloride	3.509	3.542	-0.033	154491410	18.5	
3 Nitrite as N		4.209			ND	
4 Bromide	4.992	5.009	-0.017	409368	0.1790	
5 Nitrate as N	5.584	5.592	-0.008	43794036	NC	
7 Orthophosphate as P	8.134	8.175	-0.041	463724	NC	
6 Sulfate	8.950	9.009	-0.059	578250290	106.1	

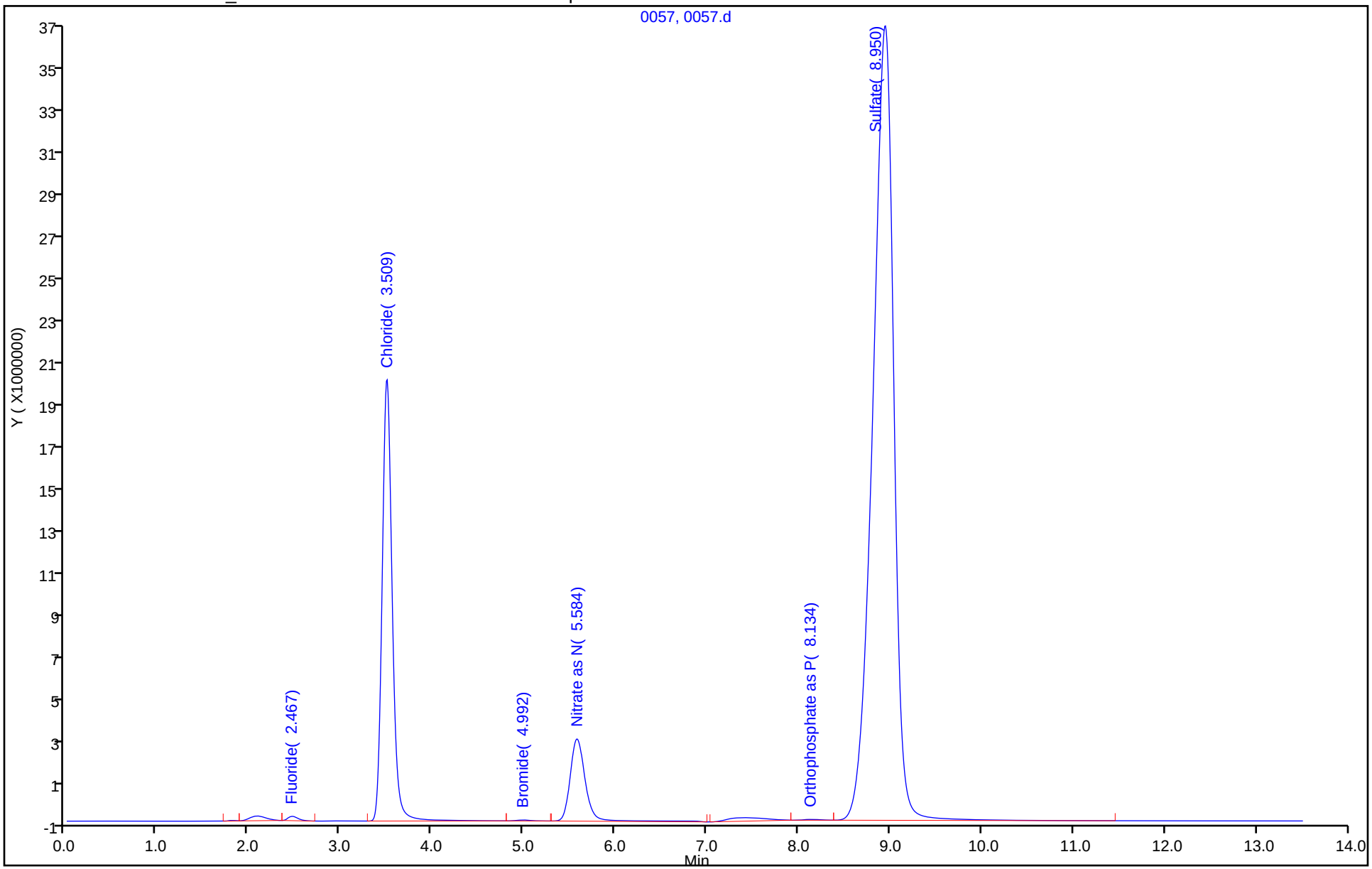
QC Flag Legend

Processing Flags
NC - Not Calibrated

Report Date: 01-Jul-2020 14:22:18 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0057.d				
Injection Date:	01-Jul-2020 02:11:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	280-137736-F-11	Lab Sample ID:	280-137736-11	Worklist Smp#:	57
Client ID:	G0087-20A				
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0059.d
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 01-Jul-2020 02:44:00 ALS Bottle#: 0 Worklist Smp#: 59
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-059
Misc. Info.: 11259 F
Operator ID: Instrument ID: WC_IonChrom11
Sublist: chrom-Anions_IC11*sub1

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 14:22:18 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1021

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.475	2.475	0.000	40524722	5.00	5.14	
2 Chloride	3.534	3.542	-0.008	824499593	100.0	96.1	
3 Nitrite as N	4.192	4.209	-0.017	64812458	NC	NC	
4 Bromide	4.967	5.009	-0.042	11835408	5.00	4.91	
5 Nitrate as N	5.542	5.592	-0.050	76550596	NC	NC	
7 Orthophosphate as P	8.059	8.175	-0.116	24189899	NC	NC	
6 Sulfate	8.892	9.009	-0.117	521793339	100.0	95.8	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

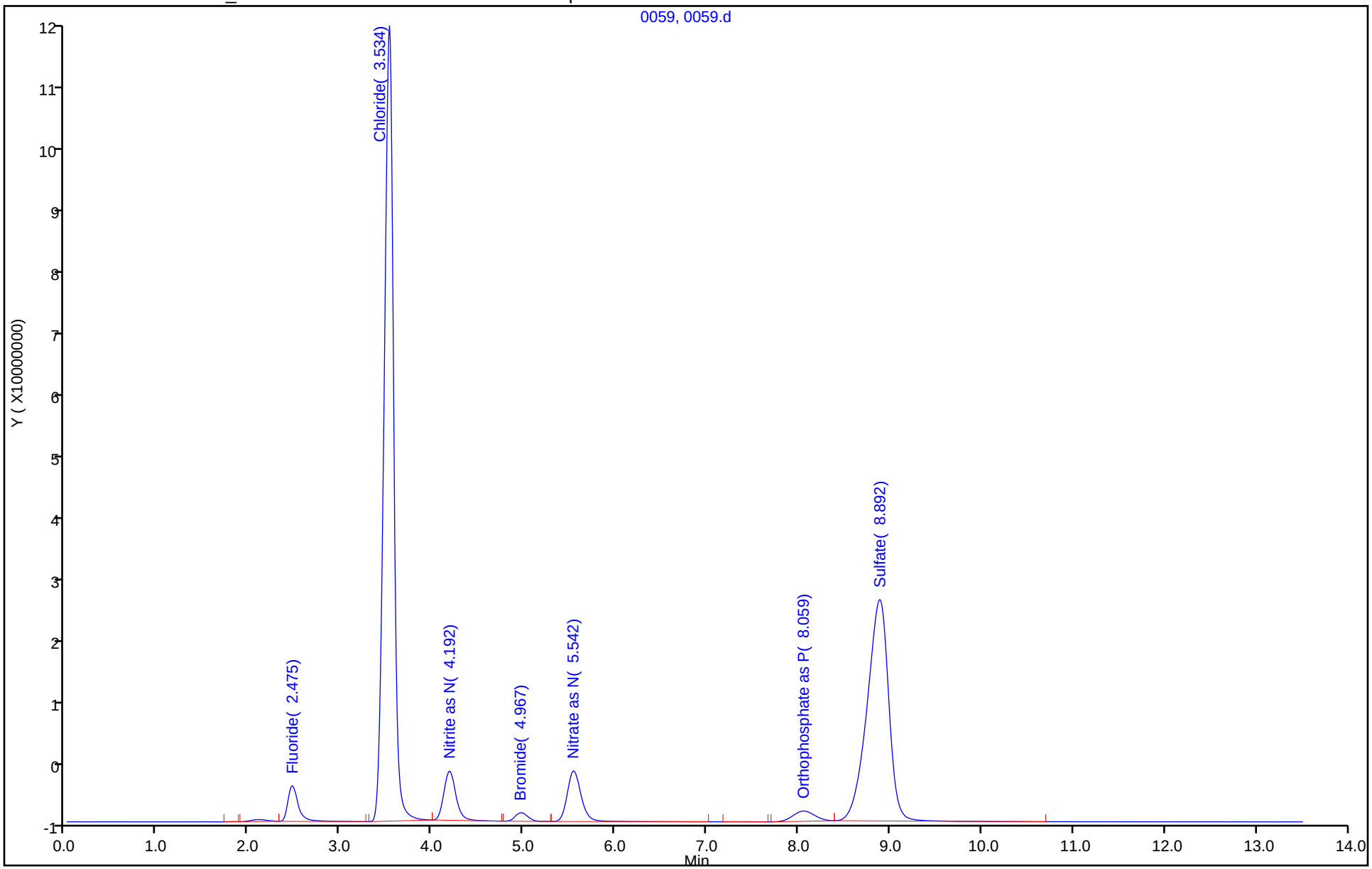
IC LCS_01747 Amount Added: 5.00 Units: mL

Report Date: 01-Jul-2020 14:22:19 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0059.d

Injection Date:	01-Jul-2020 02:44:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	59
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0060.d
Lims ID: ccb
Client ID:
Sample Type: CCB
Inject. Date: 01-Jul-2020 03:01:00 ALS Bottle#: 0 Worklist Smp#: 60
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-060
Misc. Info.: 20622 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 14:22:18 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1021

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.100	2.475	-0.375	170316		0.0504	
2 Chloride		3.542				ND	
3 Nitrite as N		4.209				ND	
4 Bromide		5.009				ND	
5 Nitrate as N		5.592				ND	
7 Orthophosphate as P	8.109	8.175	-0.066	151480		NC	
6 Sulfate		9.009				ND	

QC Flag Legend

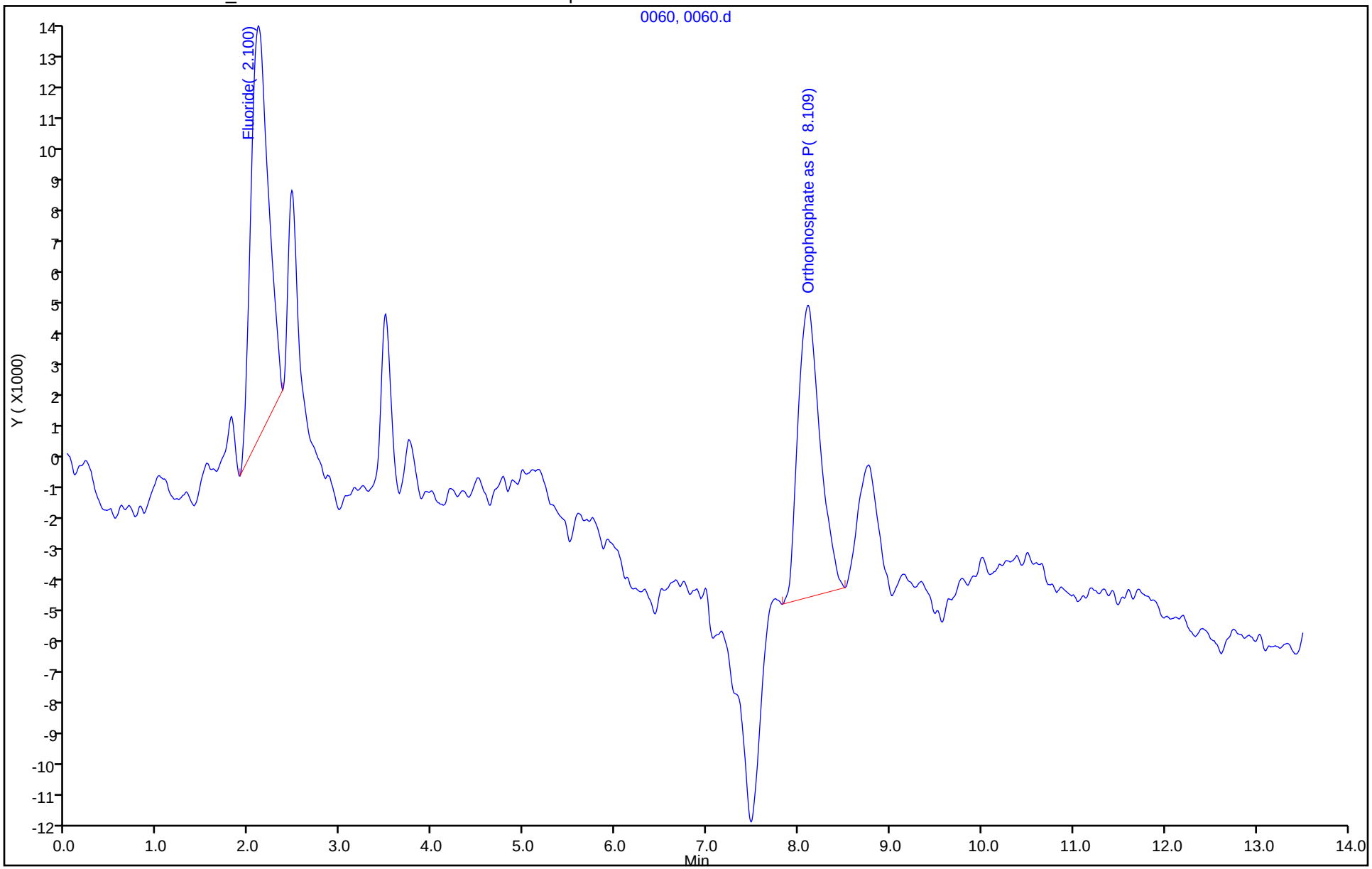
Processing Flags
NC - Not Calibrated

Report Date: 01-Jul-2020 14:22:19 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0060.d

Injection Date:	01-Jul-2020 03:01:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	ccb			Worklist Smp#:	60
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0061.d
Lims ID: 280-137736-F-13
Client ID: G0089-20A
Sample Type: Client
Inject. Date: 01-Jul-2020 03:17:00 ALS Bottle#: 0 Worklist Smp#: 61
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-061
Misc. Info.: 25491 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 14:22:18 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1021

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	2002848	0.2813	
2 Chloride	3.517	3.542	-0.025	267335413	31.6	
3 Nitrite as N		4.209			ND	
4 Bromide	5.034	5.009	0.025	484176	0.2099	
5 Nitrate as N	5.642	5.592	0.050	13863443	NC	
7 Orthophosphate as P	8.142	8.175	-0.033	11993952	NC	
6 Sulfate	8.967	9.009	-0.042	621672494	114.1	

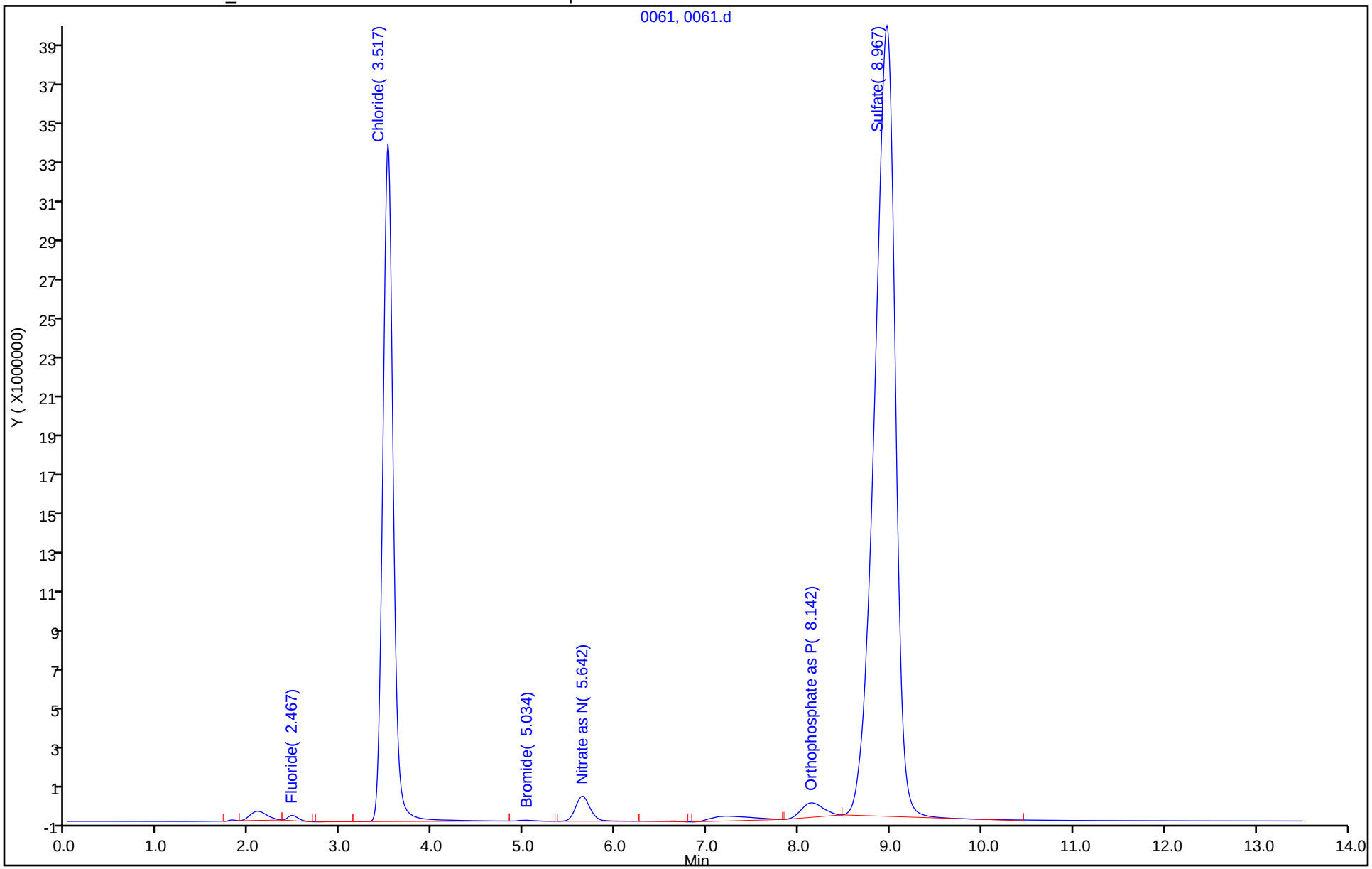
QC Flag Legend

Processing Flags
NC - Not Calibrated

Report Date: 01-Jul-2020 14:22:20 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0061.d				
Injection Date:	01-Jul-2020 03:17:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	280-137736-F-13	Lab Sample ID:	280-137736-13	Worklist Smp#:	61
Client ID:	G0089-20A				
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0062.d
Lims ID: 280-137736-F-14
Client ID: G0077-20A
Sample Type: Client
Inject. Date: 01-Jul-2020 03:33:00 ALS Bottle#: 0 Worklist Smp#: 62
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-062
Misc. Info.: 947 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 14:22:18 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1021

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	1642777	0.2359	
2 Chloride	3.509	3.542	-0.033	147461653	17.7	
3 Nitrite as N		4.209			ND	
4 Bromide	4.992	5.009	-0.017	298847	0.1332	
5 Nitrate as N	5.575	5.592	-0.017	225830413	NC	
7 Orthophosphate as P	8.134	8.175	-0.041	1325003	NC	
6 Sulfate	8.942	9.009	-0.067	540110283	99.2	

QC Flag Legend

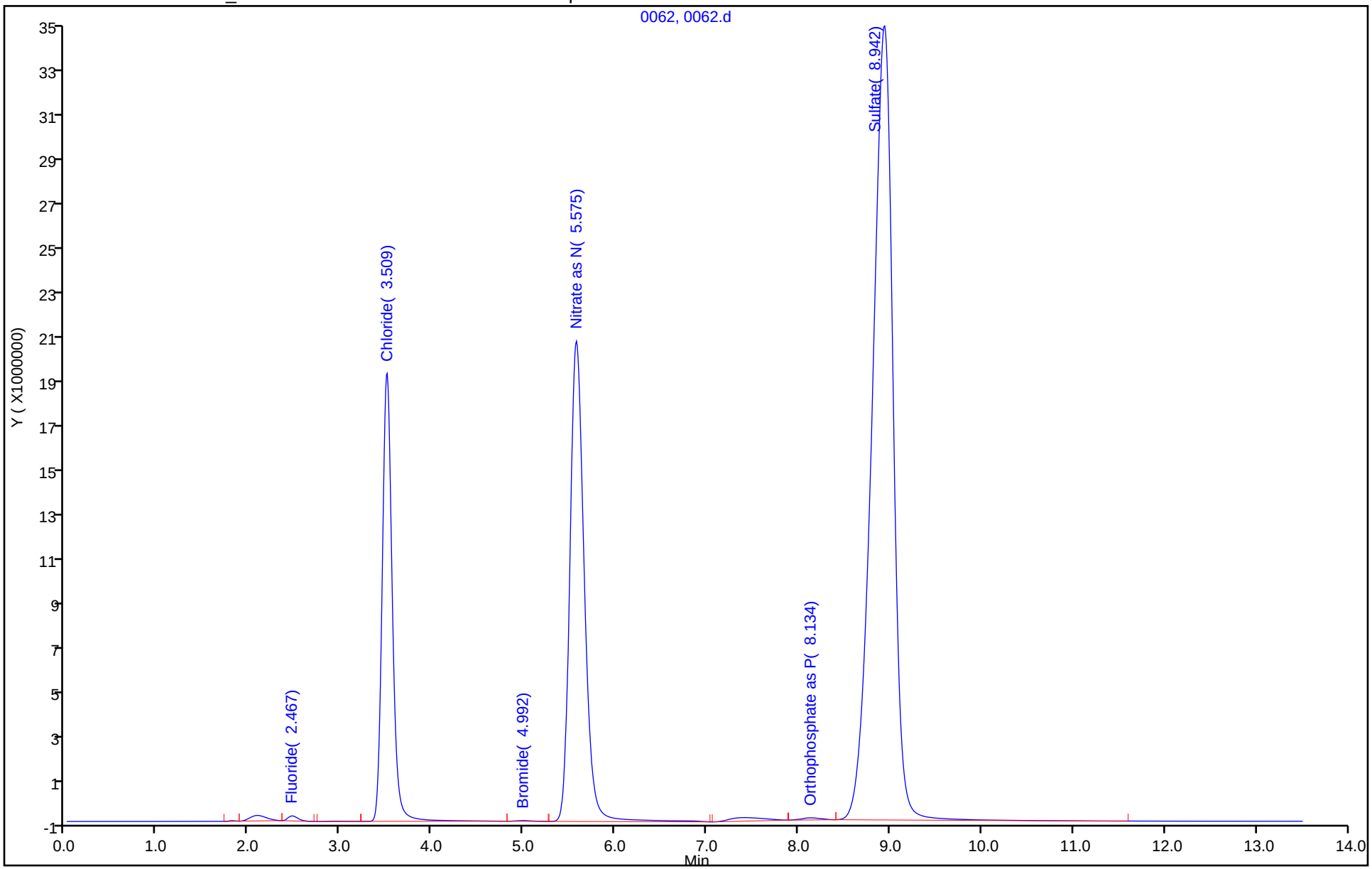
Processing Flags
NC - Not Calibrated

Report Date: 01-Jul-2020 14:22:20 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0062.d

Injection Date:	01-Jul-2020 03:33:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	280-137736-F-14	Lab Sample ID:	280-137736-14	Worklist Smp#:	62
Client ID:	G0077-20A				
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0064.d
Lims ID: 280-137736-F-16
Client ID: G0093-20A
Sample Type: Client
Inject. Date: 01-Jul-2020 04:06:00 ALS Bottle#: 0 Worklist Smp#: 64
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-064
Misc. Info.: 20669 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 08:32:17 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1063

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride	2.475	2.475	0.000	1661507	0.2383	
2 Chloride	3.517	3.542	-0.025	233064169	27.6	
3 Nitrite as N		4.209			ND	
4 Bromide	5.009	5.009	0.000	415786	0.1816	
5 Nitrate as N	5.609	5.592	0.017	9673883	NC	
7 Orthophosphate as P	8.125	8.175	-0.050	1235314	NC	
6 Sulfate	8.984	9.009	-0.025	737368571	135.2	

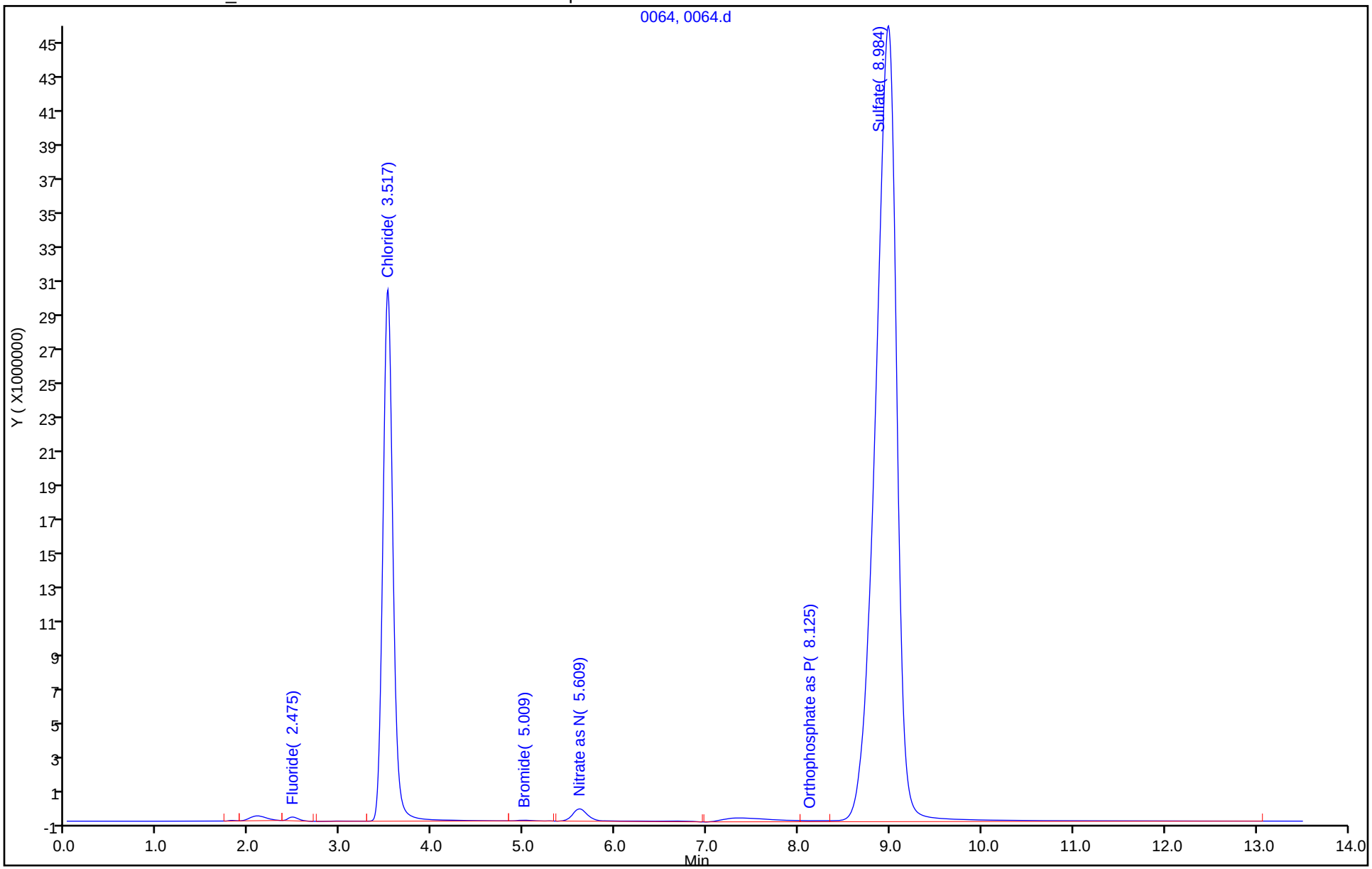
QC Flag Legend

Processing Flags
NC - Not Calibrated

Report Date: 01-Jul-2020 08:32:19 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0064.d				
Injection Date:	01-Jul-2020 04:06:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	280-137736-F-16	Lab Sample ID:	280-137736-16	Worklist Smp#:	64
Client ID:	G0093-20A				
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0065.d
Lims ID: 280-137736-F-17
Client ID: G0086-20A
Sample Type: Client
Inject. Date: 01-Jul-2020 04:23:00 ALS Bottle#: 0 Worklist Smp#: 65
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-065
Misc. Info.: 22638 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 08:32:17 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1063

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	1343032	0.1981	
2 Chloride	3.509	3.542	-0.033	196660357	23.4	
3 Nitrite as N		4.209			ND	
4 Bromide	4.992	5.009	-0.017	420655	0.1836	
5 Nitrate as N	5.584	5.592	-0.008	114188969	NC	
7 Orthophosphate as P	8.125	8.175	-0.050	268941	NC	
6 Sulfate	8.959	9.009	-0.050	709196734	130.0	

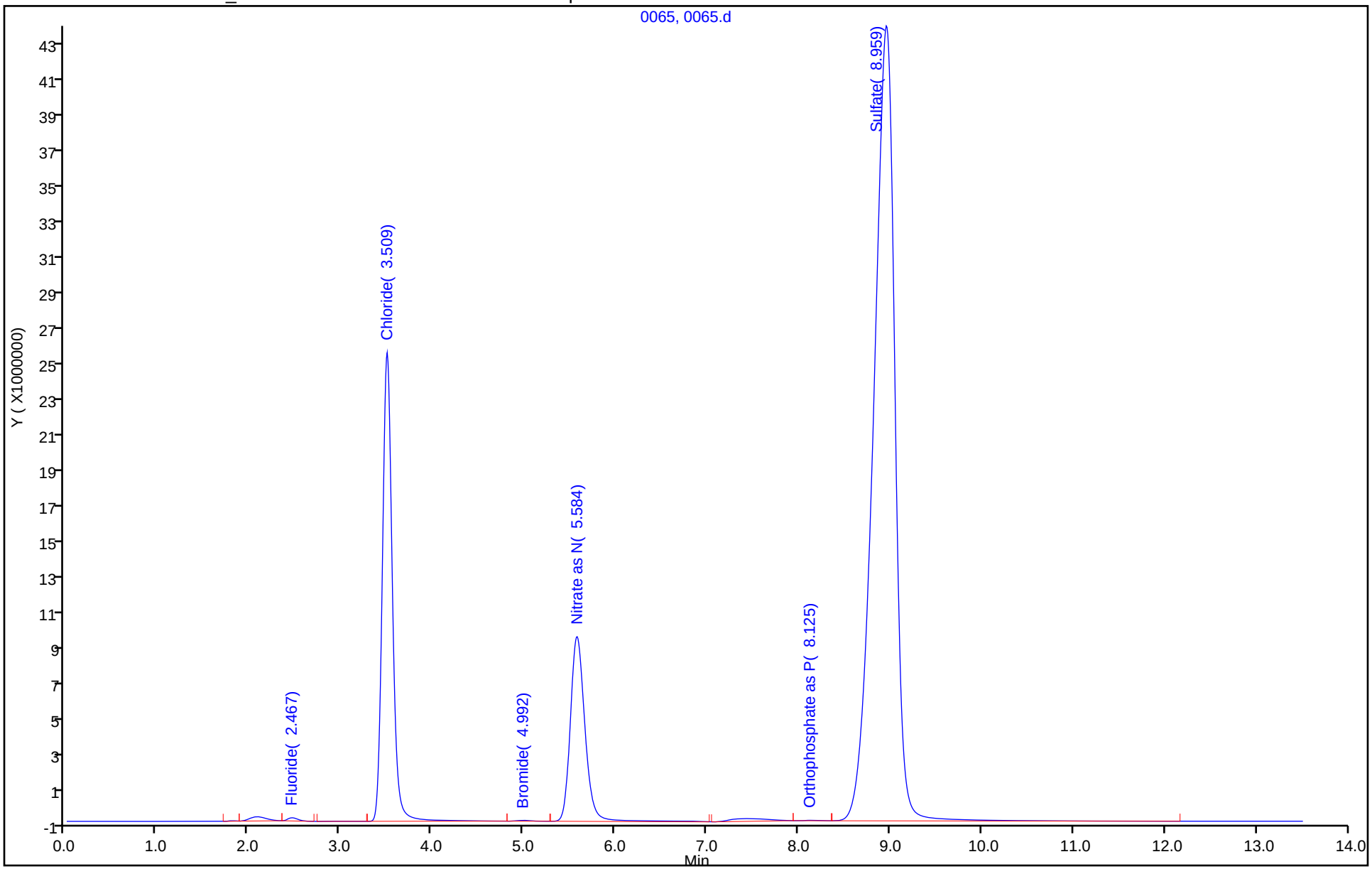
QC Flag Legend

Processing Flags
NC - Not Calibrated

Report Date: 01-Jul-2020 08:32:19 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0065.d				
Injection Date:	01-Jul-2020 04:23:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	280-137736-F-17	Lab Sample ID:	280-137736-17	Worklist Smp#:	65
Client ID:	G0086-20A				
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0066.d
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 01-Jul-2020 04:39:00 ALS Bottle#: 0 Worklist Smp#: 66
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092899-066
Misc. Info.: 13103 F
Operator ID: Instrument ID: WC_IonChrom11
Sublist: chrom-Anions_IC11*sub1

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 01-Jul-2020 08:32:19 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1063

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	40525884	5.00	5.14	
2 Chloride	3.534	3.542	-0.008	824126166	100.0	96.1	
3 Nitrite as N	4.192	4.209	-0.017	64685186	NC	NC	
4 Bromide	4.976	5.009	-0.033	11833747	5.00	4.91	
5 Nitrate as N	5.551	5.592	-0.041	76505698	NC	NC	
7 Orthophosphate as P	8.051	8.175	-0.124	24196373	NC	NC	
6 Sulfate	8.876	9.009	-0.133	519319330	100.0	95.4	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

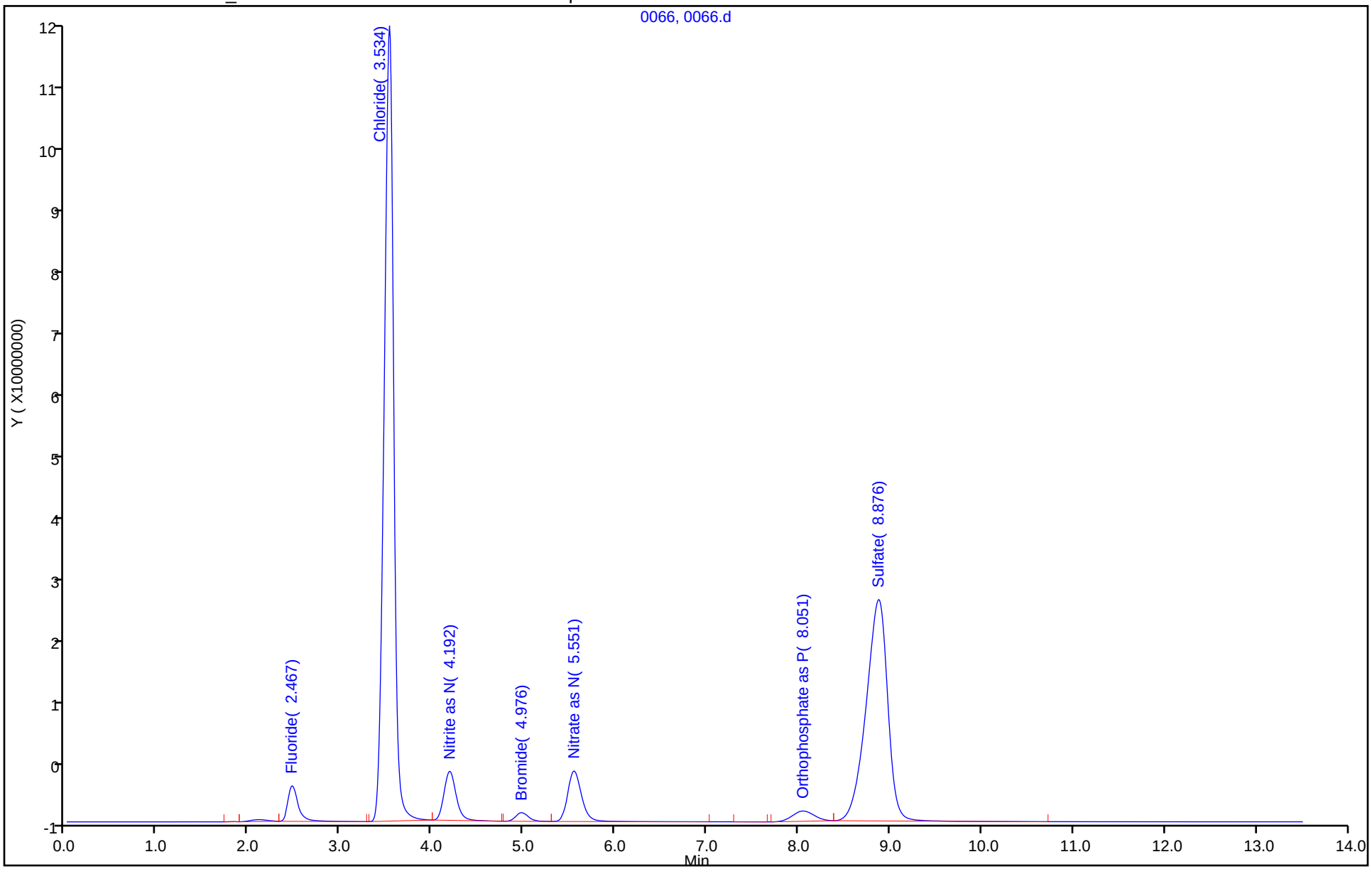
IC LCS_01747 Amount Added: 5.00 Units: mL

Report Date: 01-Jul-2020 08:32:19 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0066.d

Injection Date:	01-Jul-2020 04:39:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	66
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0067.d				
Lims ID:	ccb				
Client ID:					
Sample Type:	CCB				
Inject. Date:	01-Jul-2020 04:55:00	ALS Bottle#:	0	Worklist Smp#:	67
Injection Vol:	10.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-0092899-067				
Misc. Info.:	16926 F				
Operator ID:		Instrument ID:	WC_IonChrom11		
Method:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\Anions_IC11.m				
Limit Group:	Wet - Anions 28D				
Last Update:	01-Jul-2020 08:32:19	Calib Date:	09-Jun-2020 12:09:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d				
Column 1 :			Det: 0005		
Process Host:	CTX1063				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		2.475				ND	
2 Chloride		3.542				ND	
3 Nitrite as N		4.209				ND	
4 Bromide		5.009				ND	
5 Nitrate as N		5.592				ND	
7 Orthophosphate as P	7.751	8.175	-0.424	519218		NC	
6 Sulfate	8.784	9.009	-0.225	200960		0.5261	

QC Flag Legend

Processing Flags

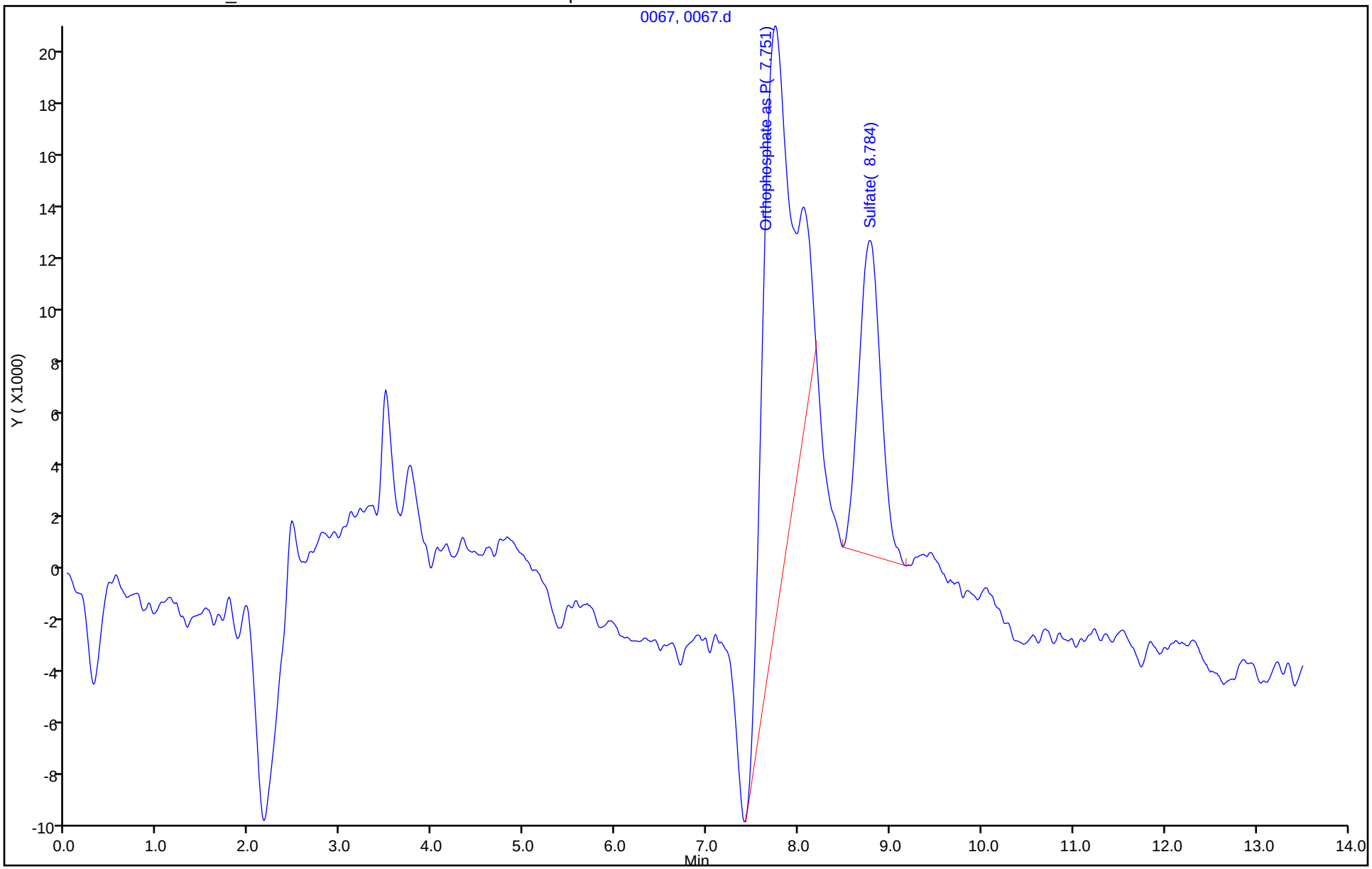
NC - Not Calibrated

Report Date: 01-Jul-2020 08:32:20 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200630-92899.b\0067.d

Injection Date:	01-Jul-2020 04:55:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	ccb			Worklist Smp#:	67
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



IC Instrument Information

WL: 92935 **Inst ID:** 11 **Analysis Date:** 7/1/20 **Analyst:** CJ

Rush	Job No.	Samples	Anions	QC Req	HT Exp
☐	137705	2	(F) Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	137707	1	F Cl NO2 Br NO3 PO4 SO4	(MS/D) 2	
☐	137555	9	F Cl NO2 Br NO3 PO4 SO4	(MS/D) 4	
☐	137884	3	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	137834	1	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	137705	1	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	137692	1	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	137681	1	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐	138209	7 CJ 7/1/20	F Cl NO2 Br NO3 PO4 SO4	(MS/D) 6	
☐	138205	25 CJ 7/1/20	F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	
☐			F Cl NO2 Br NO3 PO4 SO4	MS/D	

Dilutions

Job No.	Samples	Anions	Dilution	Reason
705		F Cl NO2 Br NO3 PO4 SO4	5x	Rerun.
707		F Cl NO2 Br NO3 PO4 SO4	20x	Rerun.
555		F Cl NO2 Br NO3 PO4 SO4	5x	Coverage.
884		F Cl NO2 Br NO3 PO4 SO4	2x	coverage
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		
		F Cl NO2 Br NO3 PO4 SO4		

TestAmerica Laboratories
Initial Calibration Summary Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\Anions_IC11.m
Instrument: WC_IonChrom11 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 09-Jun-2020 23:07:06
No.Compounds:7

Initial Calibration Batches

Ical Batch: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b
Inj Date : 09-Jun-2020 10:46:00, Sublist: chrom-Anions_IC11*sub1

Detector 1: 0005

	Wet - Anions				Wet - Anions 28D			
Compound	b	M1	M2	Err	b	M1	M2	Err
1 Fluoride					-229426	7936214		0.999
2 Chloride					-561583	8637305		0.998
3 Nitrite as N	-550088	1379419		0.999				
4 Bromide					-23127	2416477		1.000
5 Nitrate as N	-785741	1626148		0.999				
7 Orthophosphate as P	-54711	4489290		0.999				
6 Sulfate					-267892	5474328		0.998

TestAmerica Laboratories
Initial Calibration Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\Anions_IC11.m
Instrument: WC_IonChrom11 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 09-Jun-2020 23:07:06
No.Compounds:7
Sublist: chrom-Anions_IC11*sub1
Limit Group: Wet - Anions

Detectors

Detector: 1, 0005
Data Type: ic Spec Type: none
Supports Extracted Chromatograms: False
Run Time: 0.000-13.500 No. Points: 1561

Calibration File Names

Level: 1 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0002.d
Inj Date: 09-Jun-2020 10:46:00 Worklist: 92247 Sample#: 2
Level: 2 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0003.d
Inj Date: 09-Jun-2020 11:03:00 Worklist: 92247 Sample#: 3
Level: 3 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0004.d
Inj Date: 09-Jun-2020 11:19:00 Worklist: 92247 Sample#: 4
Level: 4 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0005.d
Inj Date: 09-Jun-2020 11:36:00 Worklist: 92247 Sample#: 5
Level: 5 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0006.d
Inj Date: 09-Jun-2020 11:52:00 Worklist: 92247 Sample#: 6
Level: 6 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d
Inj Date: 09-Jun-2020 12:09:00 Worklist: 92247 Sample#: 7

Start Cal Date: 09-Jun-2020 10:46:00 End Cal Date: 09-Jun-2020 12:09:00

Individual Compound Calibration Parameters

Quant Method: ESTD RF Calibration: Replace
Rule Name: Linear1 Curve: Linear Weighting: Conc
Origin: None Error: raw_COD Error Limit: 1.00
RF %Dif: 0.0 SPCC Limit: 0.0 CCC Limit: 0.0
Dependent Variable: Resp

Number of Compounds: 3

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error
3 Nitrite as N				Signal: 1					
12191330	12553542	12455591	13227667	13604870	14070157	-550088			0.999
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		13794192		
2438266	6276771	12455591	52910668	108838962	140701573				
92247(2)	92247(3)	92247(4)	92247(5)	92247(6)	92247(7)				
5 Nitrate as N				Signal: 1					
14088965	14480680	14289798	15363278	15994260	16692753	-785741			0.999
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		16261481		
2817793	7240340	14289798	61453111	127954080	166927530				
92247(2)	92247(3)	92247(4)	92247(5)	92247(6)	92247(7)				
7 Orthophosphate as P				Signal: 1					
4353380	4245844	4302126	4608015	4643426	4319271	-54711			0.999
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		4489290		
870676	2122922	4302126	18432058	37147406	43192709				
92247(2)	92247(3)	92247(4)	92247(5)	92247(6)	92247(7)				

TestAmerica Laboratories
Initial Calibration Report

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\Anions_IC11.m
Instrument: WC_IonChrom11 Lims Location: 280
Lock State: Unlocked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 09-Jun-2020 23:07:06
No.Compounds:7
Sublist: chrom-Anions_IC11*sub1
Limit Group: Wet - Anions 28D

Detectors

Detector: 1, 0005
Data Type: ic Spec Type: none
Supports Extracted Chromatograms: False
Run Time: 0.000-13.500 No. Points: 1561

Calibration File Names

Level: 1 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0002.d
Inj Date: 09-Jun-2020 10:46:00 Worklist: 92247 Sample#: 2
Level: 2 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0003.d
Inj Date: 09-Jun-2020 11:03:00 Worklist: 92247 Sample#: 3
Level: 3 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0004.d
Inj Date: 09-Jun-2020 11:19:00 Worklist: 92247 Sample#: 4
Level: 4 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0005.d
Inj Date: 09-Jun-2020 11:36:00 Worklist: 92247 Sample#: 5
Level: 5 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0006.d
Inj Date: 09-Jun-2020 11:52:00 Worklist: 92247 Sample#: 6
Level: 6 \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d
Inj Date: 09-Jun-2020 12:09:00 Worklist: 92247 Sample#: 7

Start Cal Date: 09-Jun-2020 10:46:00 End Cal Date: 09-Jun-2020 12:09:00

Individual Compound Calibration Parameters

Quant Method: ESTD RF Calibration: Replace
Rule Name: Linear1 Curve: Linear Weighting: Conc
Origin: None Error: raw_COD Error Limit: 1.00
RF %Dif: 0.0 SPCC Limit: 0.0 CCC Limit: 0.0
Dependent Variable: Resp

Number of Compounds: 4

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error

RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	RF/Amt(Lvl) Response WL(Smp)	b	m1	m2	Error
1 Fluoride				Signal: 1					
7405045	7373306	7299718	7665323	7856013	8073494	**-229426**			**0.999**
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		**7936214**		
1481009	3686653	7299718	30661290	62848106	80734941				
92247(2)	92247(3)	92247(4)	92247(5)	92247(6)	92247(7)				
2 Chloride				Signal: 1					
5694811	5832696	5846212	7940601	8439836	8915870	**-5615830**			**0.998**
1.0000 (1)	2.5000 (2)	5.0000 (3)	60.0 (4)	120.0 (5)	200.0 (6)		**8637305**		
5694811	14581740	29231062	476436081	1012780349	1783173904				
92247(2)	92247(3)	92247(4)	92247(5)	92247(6)	92247(7)				
4 Bromide				Signal: 1					
2387455	2366732	2311337	2406036	2388794	2442506	**-23127**			**1.000**
0.200000(1)	0.500000(2)	1.0000 (3)	4.0000 (4)	8.0000 (5)	10.0 (6)		**2416477**		
477491	1183366	2311337	9624142	19110353	24425061				
92247(2)	92247(3)	92247(4)	92247(5)	92247(6)	92247(7)				
6 Sulfate				Signal: 1					
4124231	4192502	4135479	5024367	5332368	5670369	**-2678928**			**0.998**
1.0000 (1)	2.5000 (2)	5.0000 (3)	60.0 (4)	120.0 (5)	200.0 (6)		**5474328**		
4124231	10481254	20677397	301462033	639884212	1134073888				
92247(2)	92247(3)	92247(4)	92247(5)	92247(6)	92247(7)				

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0001.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 01-Jul-2020 09:47:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092935-001
Operator ID: Instrument ID: WC_IonChrom11
Sublist: chrom-Anions_IC11*sub1

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 02-Jul-2020 08:57:16 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1013

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.475	2.475	0.000	40168538	5.00	5.09	
2 Chloride	3.542	3.542	0.000	823545189	100.0	96.0	
3 Nitrite as N	4.192	4.209	-0.017	65043897	NC	NC	
4 Bromide	4.967	5.009	-0.042	11777191	5.00	4.88	
5 Nitrate as N	5.542	5.592	-0.050	76266487	NC	NC	
7 Orthophosphate as P	8.050	8.175	-0.125	23784804	NC	NC	
6 Sulfate	8.892	9.009	-0.117	518522491	100.0	95.2	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

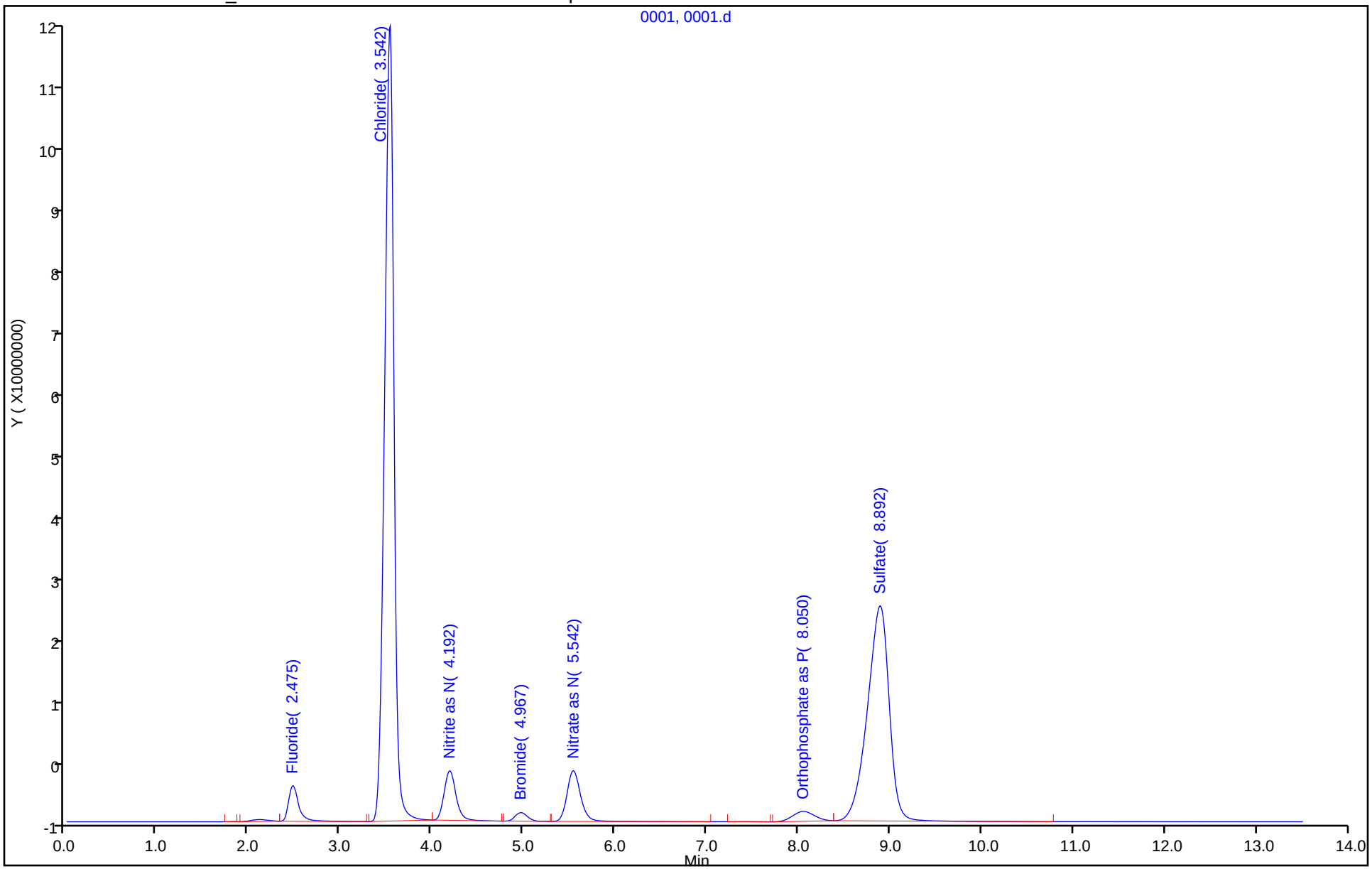
IC LCS_01747 Amount Added: 5.00 Units: mL

Report Date: 02-Jul-2020 08:57:16 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0001.d

Injection Date:	01-Jul-2020 09:47:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	CCV			Worklist Smp#:	1
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0002.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 01-Jul-2020 10:03:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092935-002
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 02-Jul-2020 08:57:16 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1013

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.109	2.475	-0.366	503029		0.0923	
2 Chloride		3.542				ND	
3 Nitrite as N		4.209				ND	
4 Bromide		5.009				ND	
5 Nitrate as N		5.592				ND	
7 Orthophosphate as P	8.134	8.175	-0.041	133374		NC	
6 Sulfate		9.009				ND	

QC Flag Legend

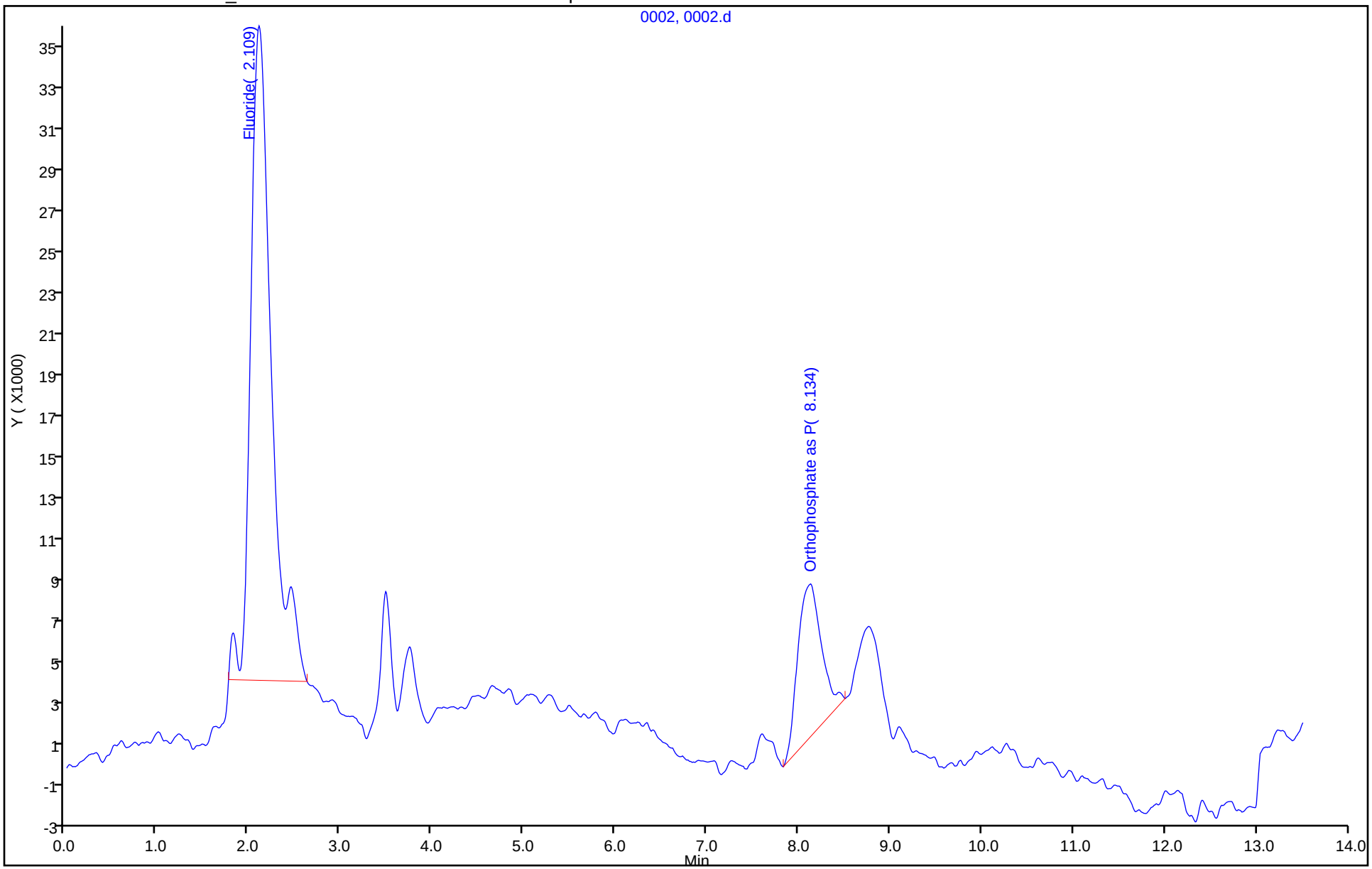
Processing Flags
NC - Not Calibrated

Report Date: 02-Jul-2020 08:57:17 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0002.d

Injection Date:	01-Jul-2020 10:03:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	CCB			Worklist Smp#:	2
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0003.d
Lims ID: MRL
Client ID:
Sample Type: MRL
Inject. Date: 01-Jul-2020 10:19:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092935-003
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 02-Jul-2020 08:57:16 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1013

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.476	2.475	0.001	3805656	0.5000	0.5084	
2 Chloride	3.492	3.542	-0.050	30482509	5.00	4.18	
3 Nitrite as N	4.176	4.209	-0.033	6173334	NC	NC	
4 Bromide	4.959	5.009	-0.050	1183609	0.5000	0.4994	
5 Nitrate as N	5.534	5.592	-0.058	7094491	NC	NC	
7 Orthophosphate as P	8.067	8.175	-0.108	2354710	NC	NC	
6 Sulfate	8.784	9.009	-0.225	21835714	5.00	4.48	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

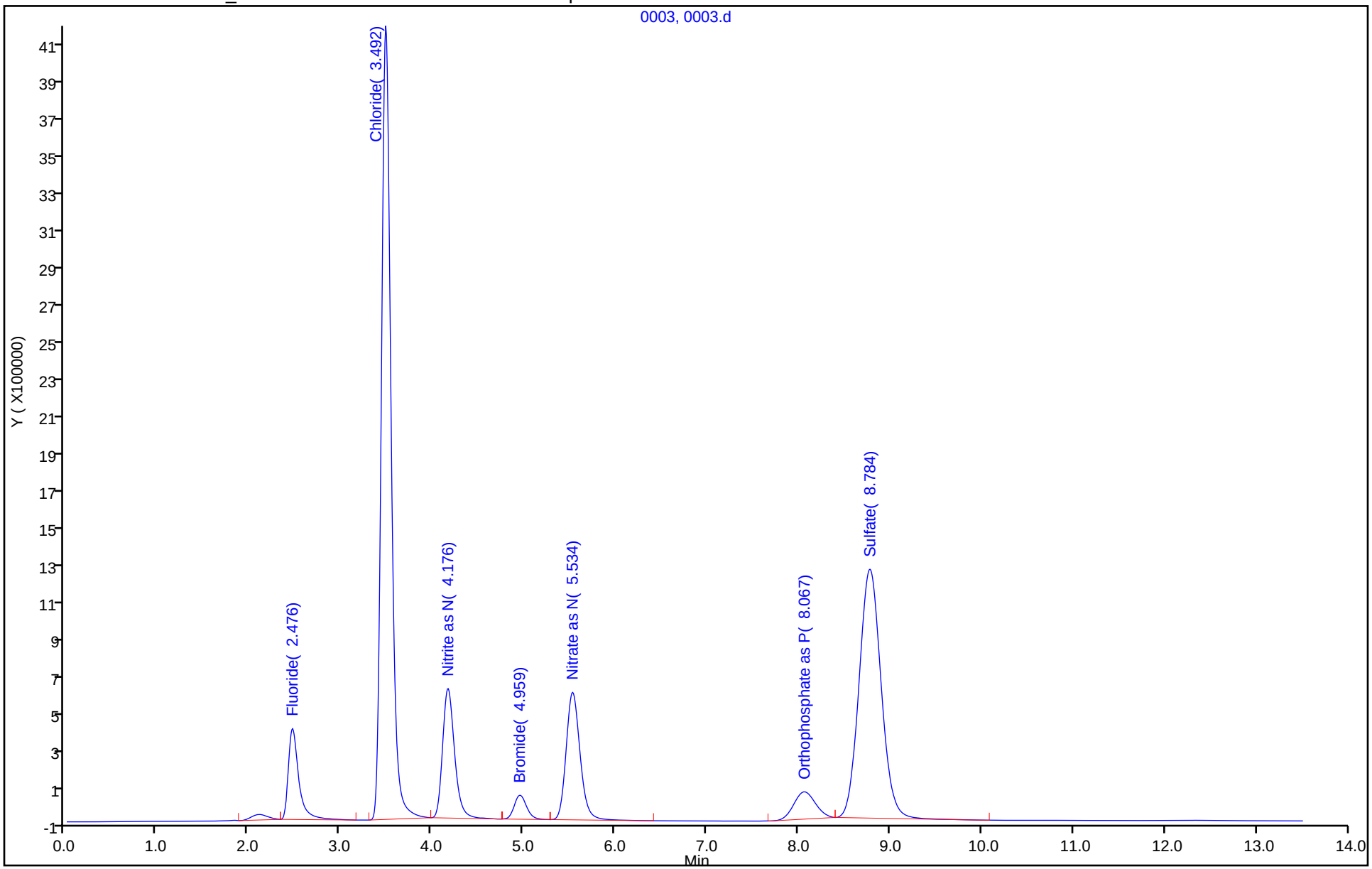
IC CAL cl/so4_00317 Amount Added: 0.10 Units: mL
IC Cal low_00531 Amount Added: 0.05 Units: mL

Report Date: 02-Jul-2020 08:57:17 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0003.d

Injection Date:	01-Jul-2020 10:19:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	MRL			Worklist Smp#:	3
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0004.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Jul-2020 10:36:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092935-004
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 02-Jul-2020 08:57:16 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1013

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.475	2.475	0.000	40091466	5.00	5.08	
2 Chloride	3.534	3.542	-0.008	824308845	100.0	96.1	
3 Nitrite as N	4.184	4.209	-0.025	65330284	NC	NC	
4 Bromide	4.959	5.009	-0.050	11773987	5.00	4.88	
5 Nitrate as N	5.525	5.592	-0.067	76291538	NC	NC	
7 Orthophosphate as P	8.050	8.175	-0.125	24242147	NC	NC	
6 Sulfate	8.892	9.009	-0.117	519643059	100.0	95.4	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

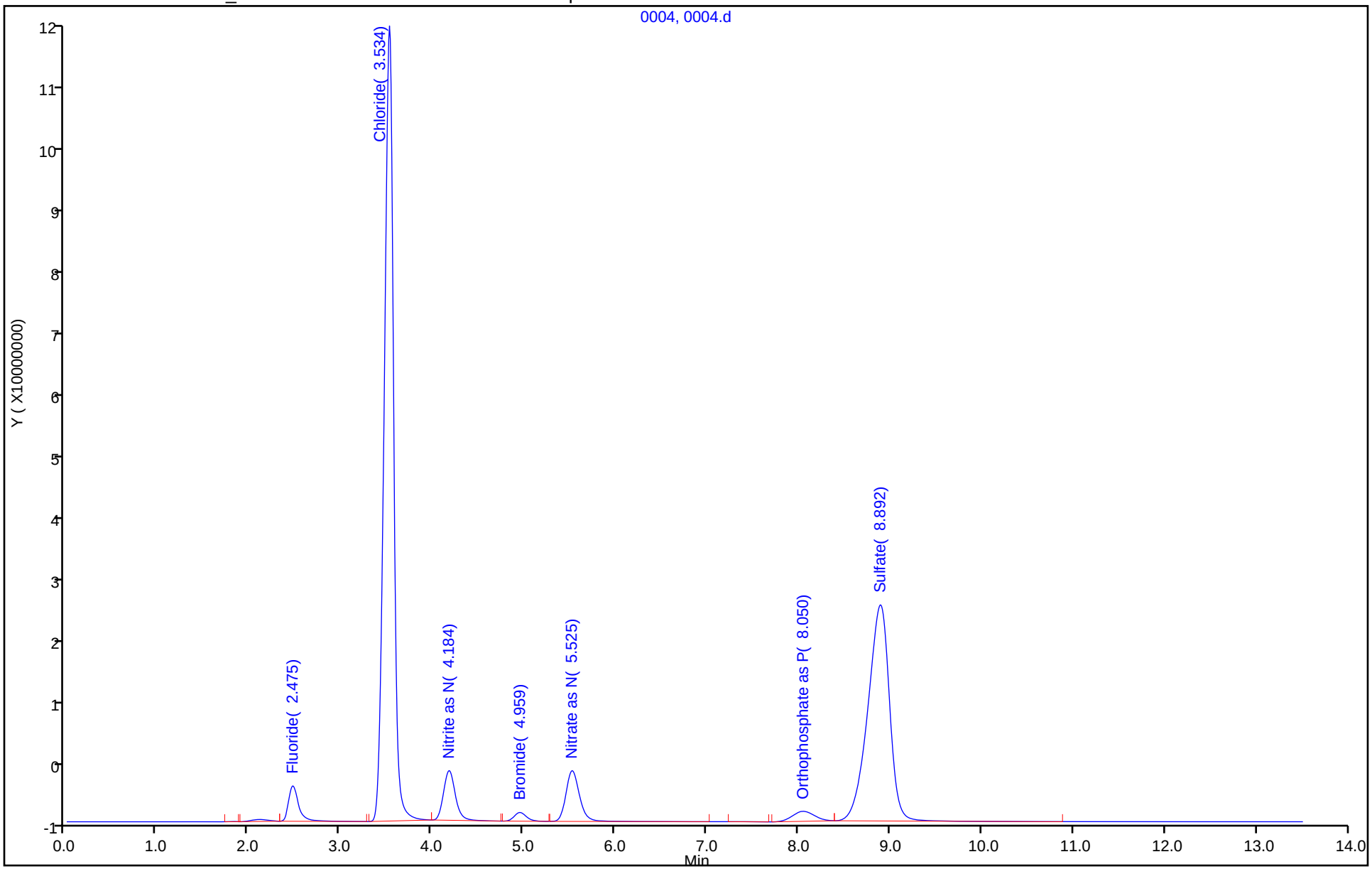
IC LCS_01747 Amount Added: 5.00 Units: mL

Report Date: 02-Jul-2020 08:57:18 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0004.d

Injection Date:	01-Jul-2020 10:36:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0005.d
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 01-Jul-2020 10:52:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092935-005
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 02-Jul-2020 08:57:16 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1013

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.475	2.475	0.000	39963370	5.00	5.06	
2 Chloride	3.525	3.542	-0.017	820777388	100.0	95.7	
3 Nitrite as N	4.184	4.209	-0.025	65063526	NC	NC	
4 Bromide	4.950	5.009	-0.059	11729219	5.00	4.86	
5 Nitrate as N	5.525	5.592	-0.067	75872192	NC	NC	
7 Orthophosphate as P	8.050	8.175	-0.125	24082517	NC	NC	
6 Sulfate	8.892	9.009	-0.117	516437018	100.0	94.8	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

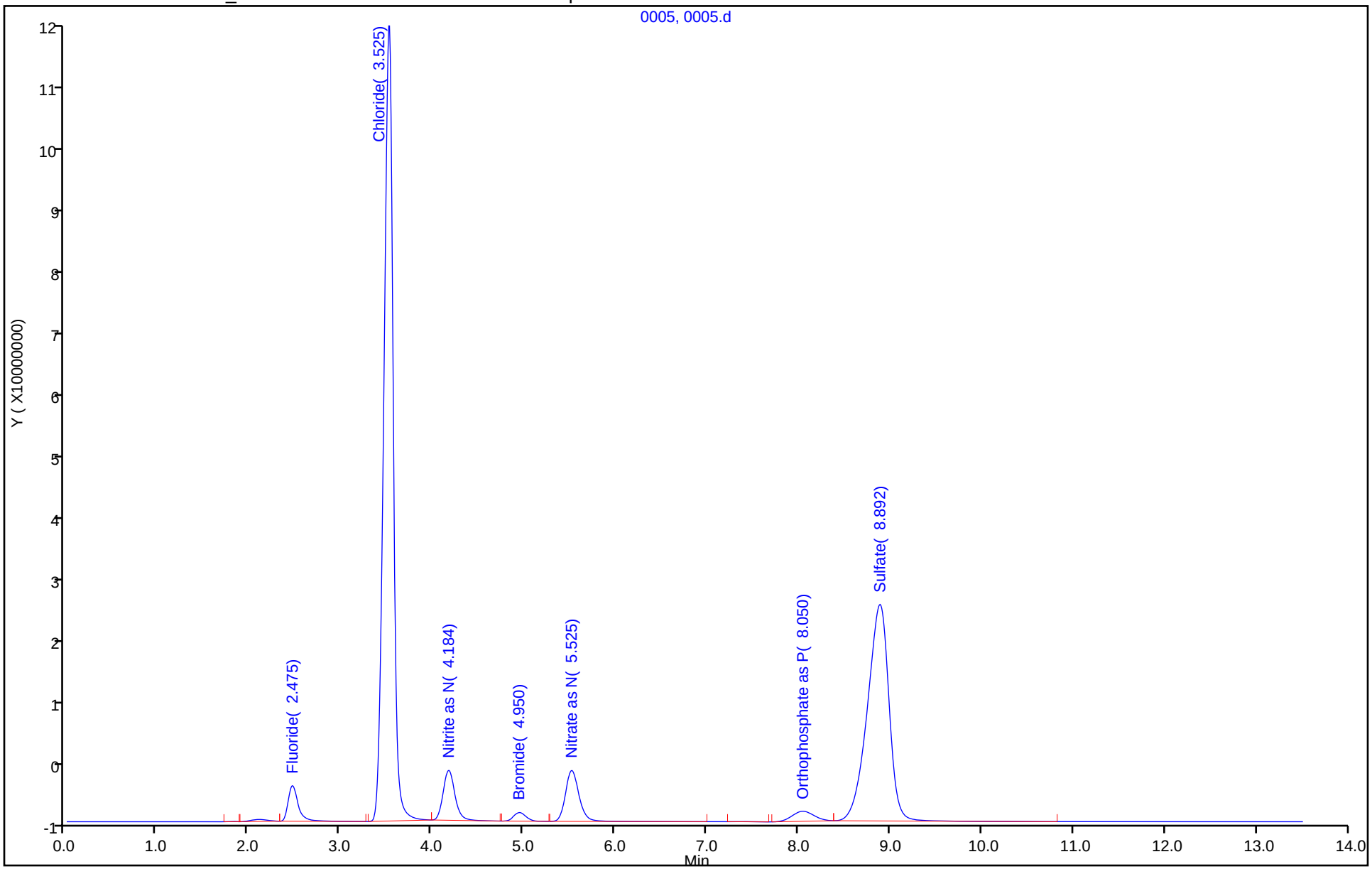
IC LCS_01747 Amount Added: 5.00 Units: mL

Report Date: 02-Jul-2020 08:57:18 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0005.d

Injection Date:	01-Jul-2020 10:52:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	LCSD			Worklist Smp#:	5
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0006.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 01-Jul-2020 11:09:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092935-006
Misc. Info.: 6 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 02-Jul-2020 08:57:16 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1013

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.109	2.475	-0.366	199552		0.0541	
2 Chloride		3.542				ND	
3 Nitrite as N		4.209				ND	
4 Bromide		5.009				ND	
5 Nitrate as N		5.592				ND	
7 Orthophosphate as P	8.117	8.175	-0.058	144415		NC	
6 Sulfate	8.775	9.009	-0.234	102478		0.5081	

QC Flag Legend

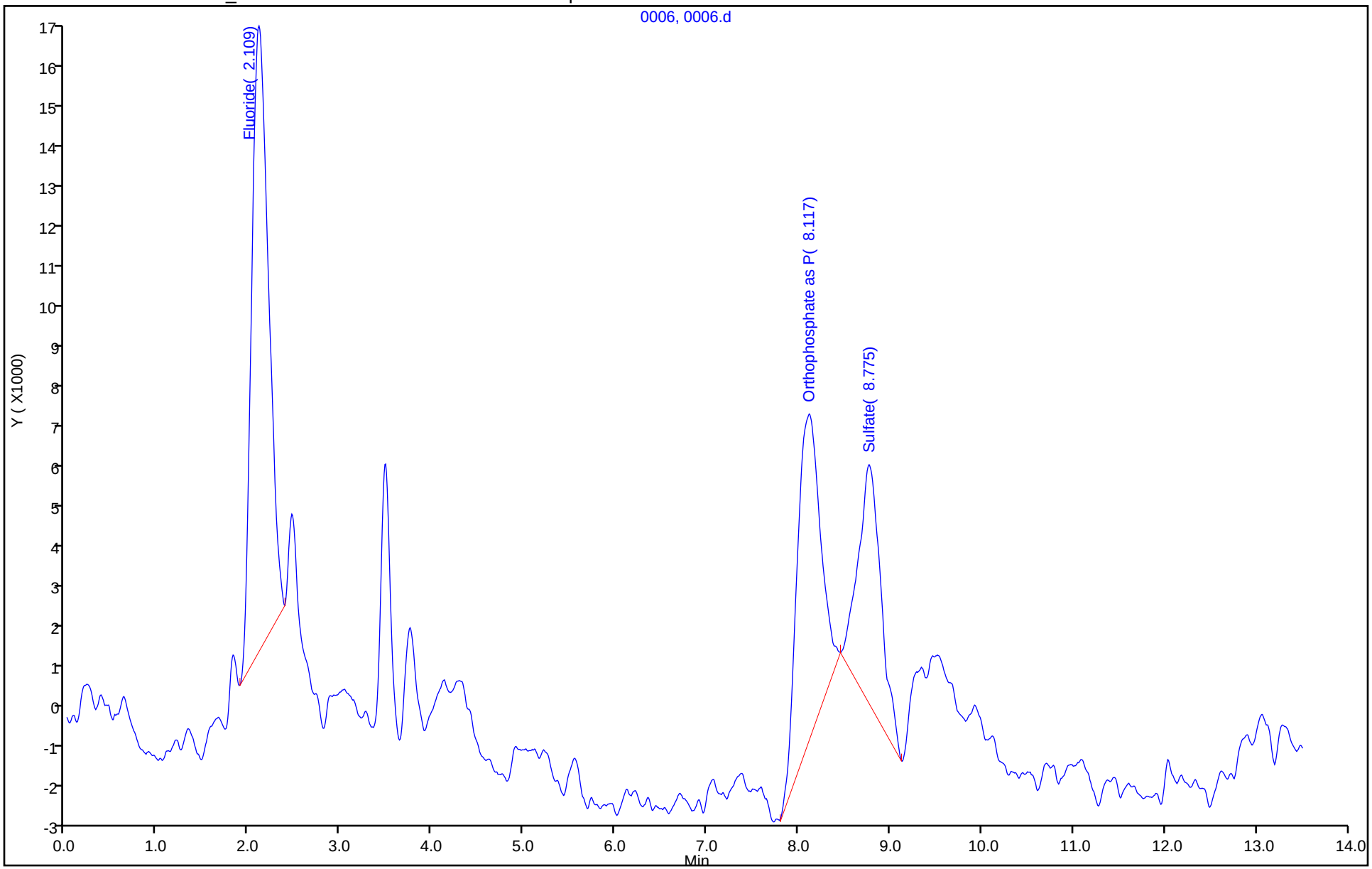
Processing Flags
NC - Not Calibrated

Report Date: 02-Jul-2020 08:57:18 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0006.d

Injection Date:	01-Jul-2020 11:09:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0007.d
Lims ID: 280-137736-D-6
Client ID: G0096-20A
Sample Type: Client
Inject. Date: 01-Jul-2020 16:54:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092935-007
Misc. Info.: 4439 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 02-Jul-2020 08:57:16 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1013

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	2498665	0.3438	
2 Chloride	3.501	3.542	-0.041	243298272	28.8	
3 Nitrite as N		4.209			ND	
4 Bromide	4.959	5.009	-0.050	286977	0.1283	
5 Nitrate as N	5.542	5.592	-0.050	502990222	NC	
7 Orthophosphate as P	8.151	8.175	-0.024	596508	NC	
6 Sulfate	8.951	9.009	-0.058	460478267	84.6	

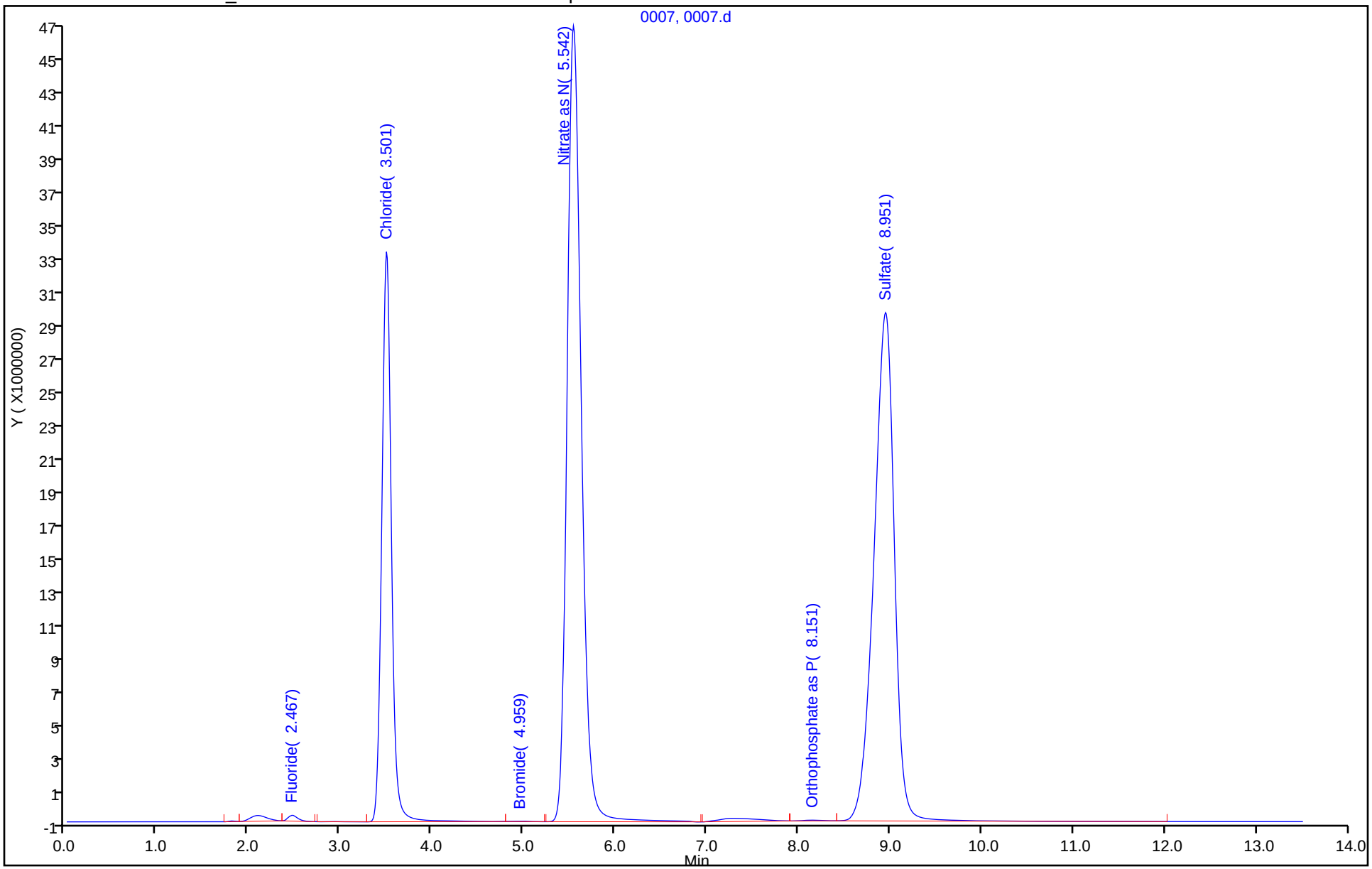
QC Flag Legend

Processing Flags
NC - Not Calibrated

Report Date: 02-Jul-2020 08:57:19 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0007.d				
Injection Date:	01-Jul-2020 16:54:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	280-137736-D-6	Lab Sample ID:	280-137736-6	Worklist Smp#:	7
Client ID:	G0096-20A				
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0009.d
Lims ID: 280-137736-F-12
Client ID: G0088-20A
Sample Type: Client
Inject. Date: 01-Jul-2020 17:26:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 10.0 ul Dil. Factor: 5.0000
Sample Info: 280-0092935-009
Misc. Info.: 27855 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 02-Jul-2020 08:57:16 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1013

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride	2.476	2.475	0.001	362679	0.0746	
2 Chloride	3.492	3.542	-0.050	43378759	5.67	
3 Nitrite as N		4.209			ND	
4 Bromide		5.009			ND	
5 Nitrate as N	5.526	5.592	-0.066	3626210	NC	
7 Orthophosphate as P	8.117	8.175	-0.058	259028	NC	
6 Sulfate	8.859	9.009	-0.150	203557949	37.7	

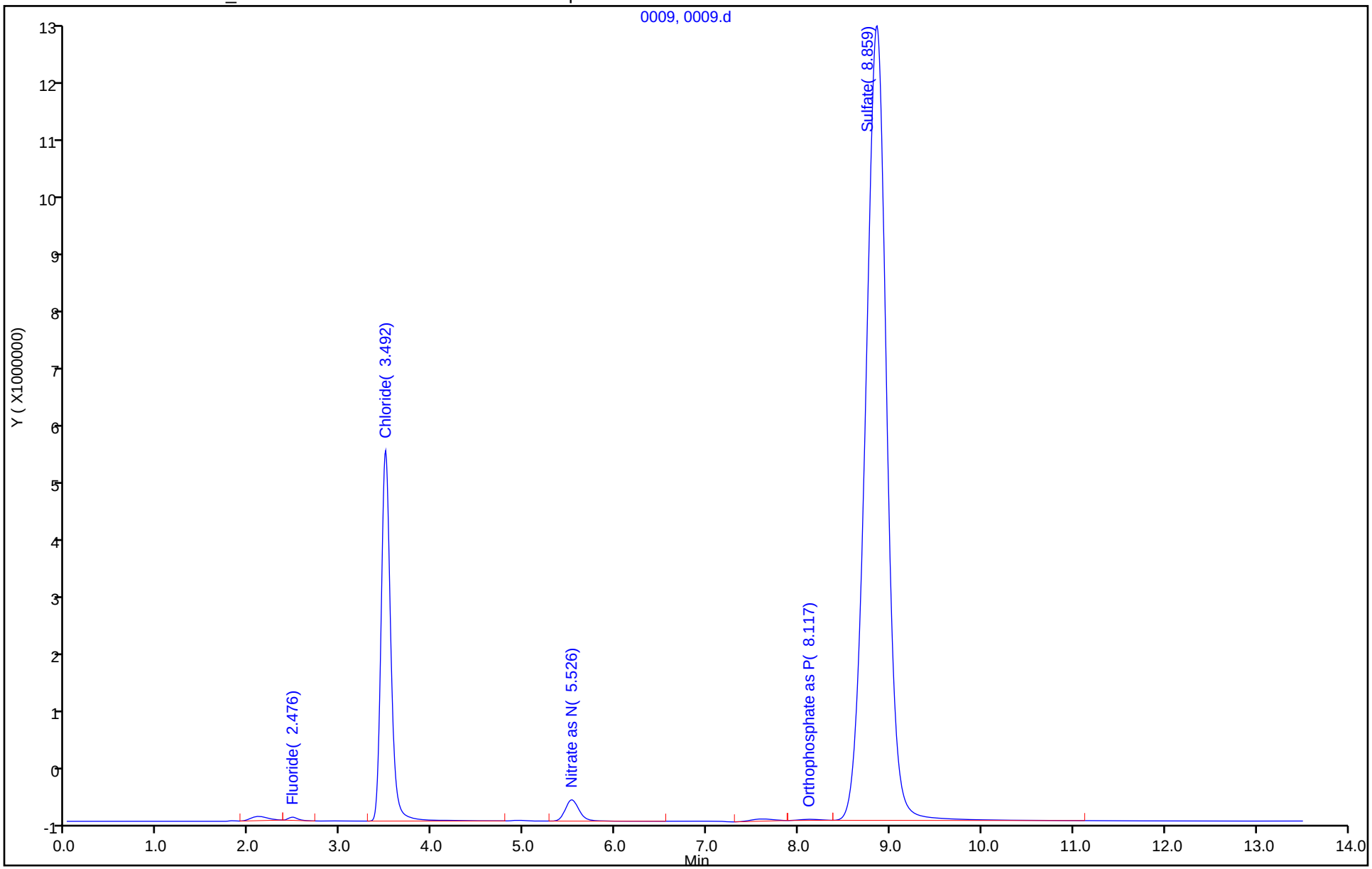
QC Flag Legend

Processing Flags
NC - Not Calibrated

Report Date: 02-Jul-2020 08:57:19 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0009.d				
Injection Date:	01-Jul-2020 17:26:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	280-137736-F-12	Lab Sample ID:	280-137736-12	Worklist Smp#:	9
Client ID:	G0088-20A				
Injection Vol:	10.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0010.d
Lims ID: 280-137736-F-15
Client ID: G0078-20A
Sample Type: Client
Inject. Date: 01-Jul-2020 17:43:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 10.0 ul Dil. Factor: 5.0000
Sample Info: 280-0092935-010
Misc. Info.: 7321 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 02-Jul-2020 08:57:16 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

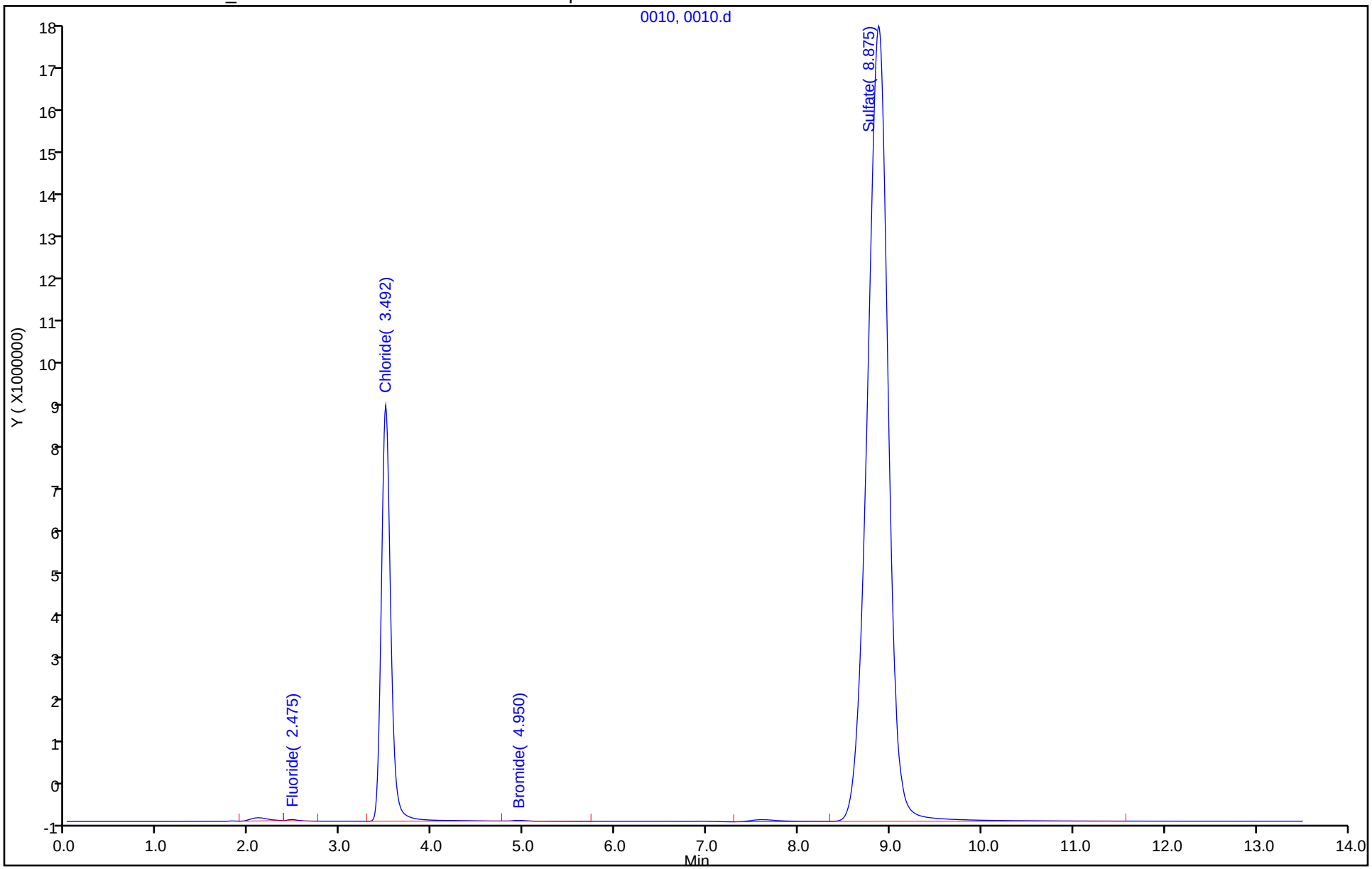
Column 1 : Det: 0005
Process Host: CTX1013

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
1 Fluoride	2.475	2.475	0.000	184477	0.0522	
2 Chloride	3.492	3.542	-0.050	65041118	8.18	
3 Nitrite as N		4.209			ND	
4 Bromide	4.950	5.009	-0.059	169049	0.0795	
5 Nitrate as N		5.592			ND	
7 Orthophosphate as P		8.175			ND	
6 Sulfate	8.875	9.009	-0.134	276002841	50.9	

Report Date: 02-Jul-2020 08:57:19 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0010.d				
Injection Date:	01-Jul-2020 17:43:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	280-137736-F-15	Lab Sample ID:	280-137736-15	Worklist Smp#:	10
Client ID:	G0078-20A				
Injection Vol:	10.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0017.d
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 01-Jul-2020 19:38:00 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092935-017
Misc. Info.: 32116 F
Operator ID: Instrument ID: WC_IonChrom11
Sublist: chrom-Anions_IC11*sub1

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 02-Jul-2020 08:57:21 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1013

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.475	2.475	0.000	40572435	5.00	5.14	
2 Chloride	3.534	3.542	-0.008	823670753	100.0	96.0	
3 Nitrite as N	4.175	4.209	-0.034	64941472	NC	NC	
4 Bromide	4.950	5.009	-0.059	11779765	5.00	4.88	
5 Nitrate as N	5.517	5.592	-0.075	76138212	NC	NC	
7 Orthophosphate as P	8.050	8.175	-0.125	25259706	NC	NC	
6 Sulfate	8.900	9.009	-0.109	522731356	100.0	96.0	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

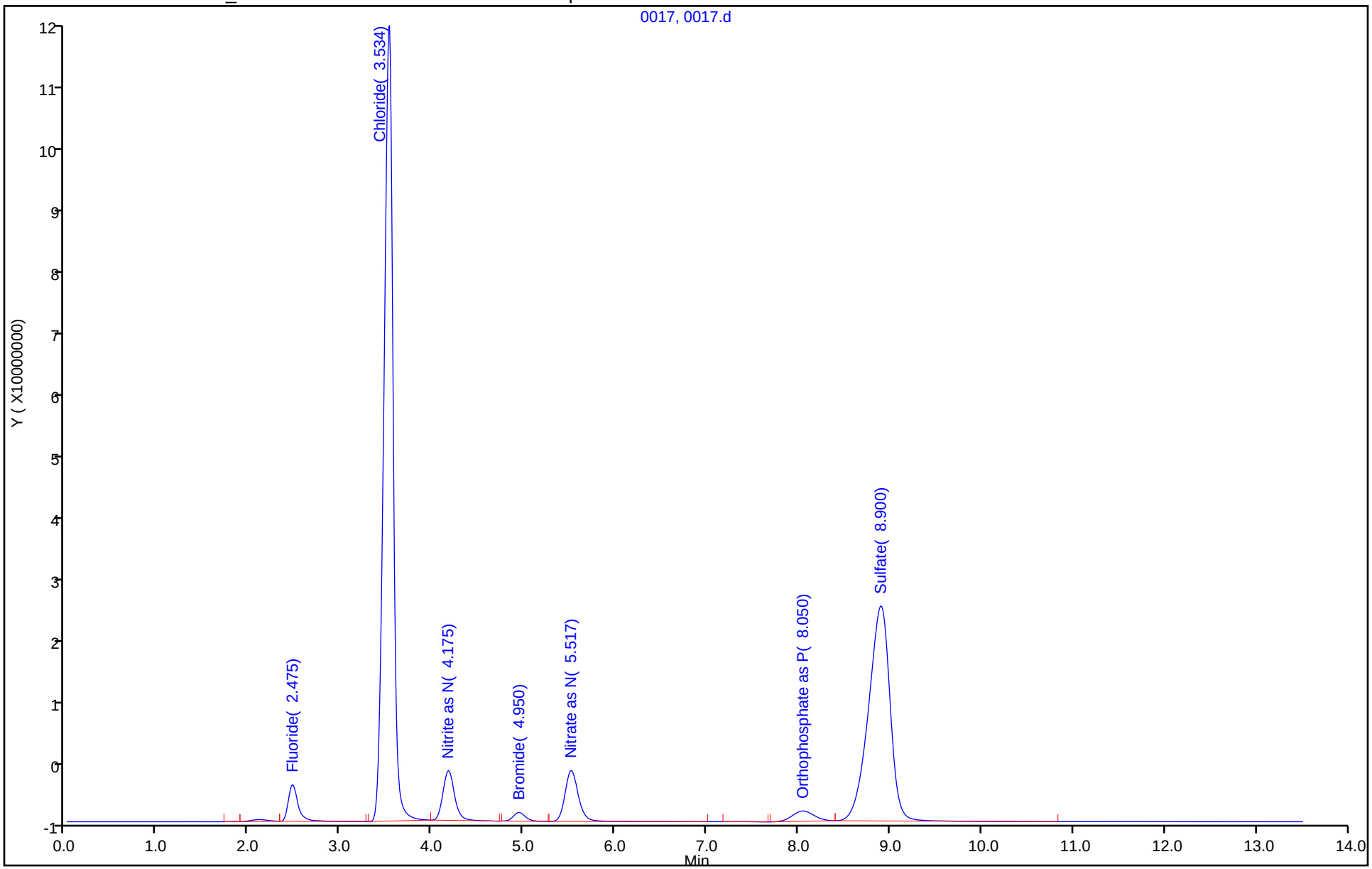
IC LCS_01747 Amount Added: 5.00 Units: mL

Report Date: 02-Jul-2020 08:57:21 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0017.d

Injection Date:	01-Jul-2020 19:38:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	17
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0018.d
Lims ID: ccb
Client ID:
Sample Type: CCB
Inject. Date: 01-Jul-2020 19:54:00 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092935-018
Misc. Info.: 27936 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 02-Jul-2020 08:57:21 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1013

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.100	2.475	-0.375	125304		0.0447	
2 Chloride		3.542				ND	
3 Nitrite as N		4.209				ND	
4 Bromide		5.009				ND	
5 Nitrate as N		5.592				ND	
7 Orthophosphate as P	8.109	8.175	-0.066	123959		NC	
6 Sulfate	8.792	9.009	-0.217	115128		0.5104	

QC Flag Legend

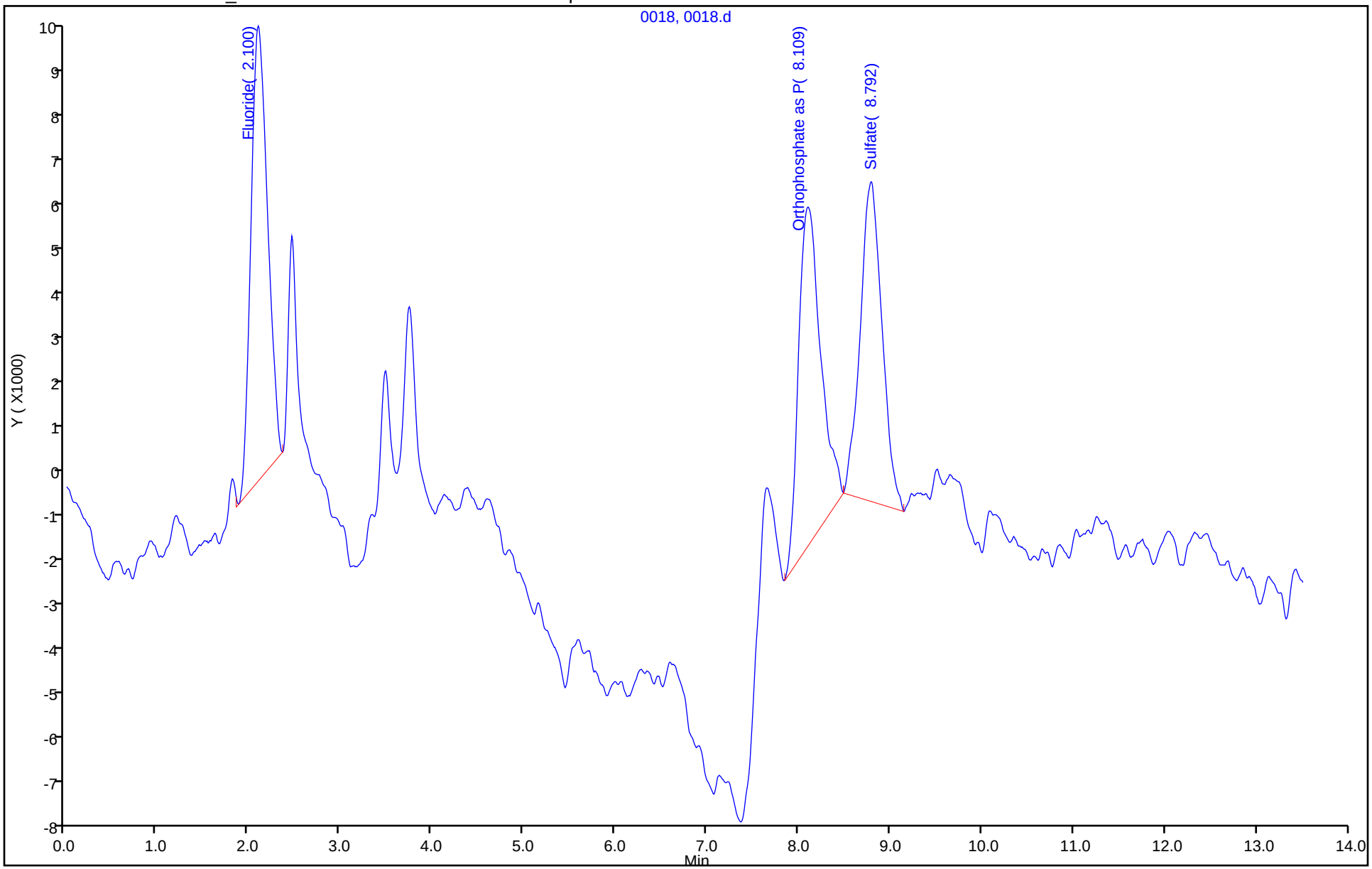
Processing Flags
NC - Not Calibrated

Report Date: 02-Jul-2020 08:57:22 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0018.d

Injection Date:	01-Jul-2020 19:54:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	ccb			Worklist Smp#:	18
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0029.d
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 01-Jul-2020 22:55:00 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092935-029
Misc. Info.: 7599 F
Operator ID: Instrument ID: WC_IonChrom11
Sublist: chrom-Anions_IC11*sub1

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 02-Jul-2020 08:57:25 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1013

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.476	2.475	0.001	40833013	5.00	5.17	
2 Chloride	3.534	3.542	-0.008	826753665	100.0	96.4	
3 Nitrite as N	4.184	4.209	-0.025	65260443	NC	NC	
4 Bromide	4.951	5.009	-0.058	11813065	5.00	4.90	
5 Nitrate as N	5.526	5.592	-0.066	76394339	NC	NC	
7 Orthophosphate as P	8.059	8.175	-0.116	24692603	NC	NC	
6 Sulfate	8.892	9.009	-0.117	519121614	100.0	95.3	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

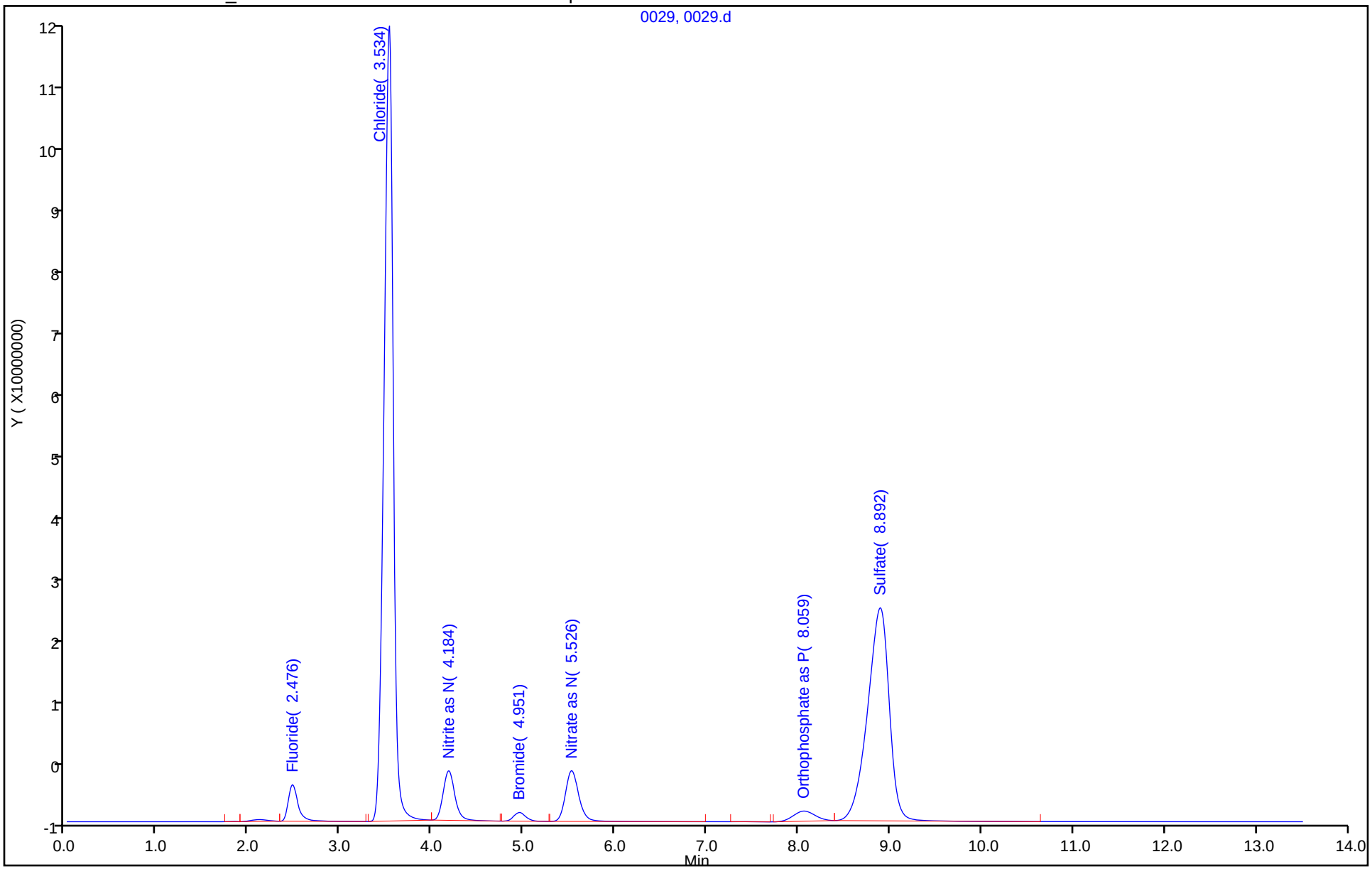
IC LCS_01747 Amount Added: 5.00 Units: mL

Report Date: 02-Jul-2020 08:57:25 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0029.d

Injection Date:	01-Jul-2020 22:55:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	29
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0030.d				
Lims ID:	ccb				
Client ID:					
Sample Type:	CCB				
Inject. Date:	01-Jul-2020 23:11:00	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	10.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-0092935-030				
Misc. Info.:	499 F				
Operator ID:		Instrument ID:	WC_IonChrom11		
Method:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\Anions_IC11.m				
Limit Group:	Wet - Anions 28D				
Last Update:	02-Jul-2020 08:57:25	Calib Date:	09-Jun-2020 12:09:00		
Integrator:	Falcon				
Quant Method:	External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d				
Column 1 :			Det: 0005		
Process Host:	CTX1013				

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride		2.475				ND	
2 Chloride		3.542				ND	
3 Nitrite as N		4.209				ND	
4 Bromide		5.009				ND	
5 Nitrate as N		5.592				ND	
7 Orthophosphate as P	8.100	8.175	-0.075	172702		NC	
6 Sulfate	8.759	9.009	-0.250	100615		0.5077	

QC Flag Legend

Processing Flags

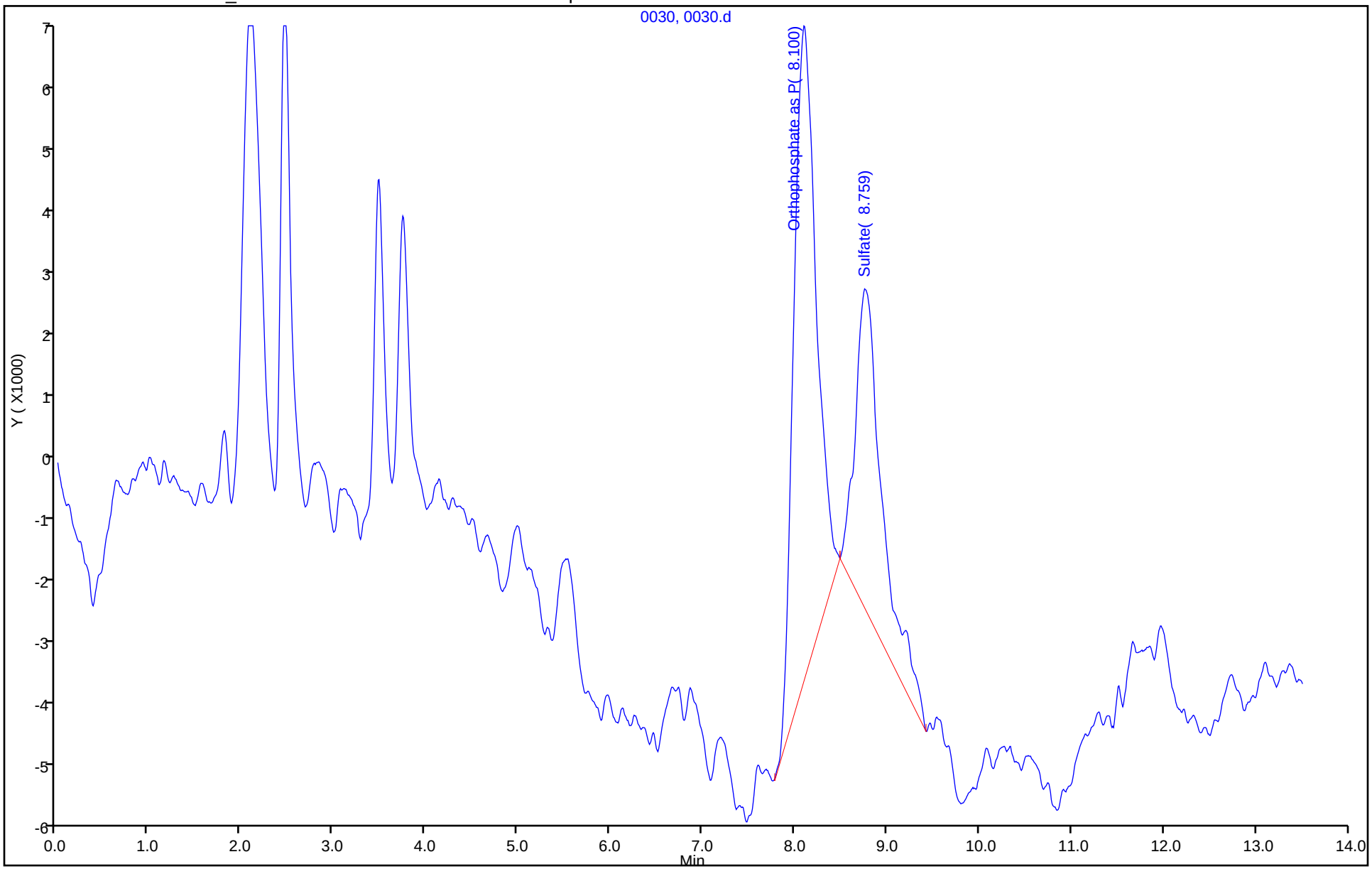
NC - Not Calibrated

Report Date: 02-Jul-2020 08:57:26 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0030.d

Injection Date:	01-Jul-2020 23:11:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	ccb			Worklist Smp#:	30
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0041.d
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 02-Jul-2020 02:11:00 ALS Bottle#: 0 Worklist Smp#: 41
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092935-041
Misc. Info.: 8794 F
Operator ID: Instrument ID: WC_IonChrom11
Sublist: chrom-Anions_IC11*sub1

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 02-Jul-2020 08:57:28 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1013

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.467	2.475	-0.008	40765761	5.00	5.17	
2 Chloride	3.525	3.542	-0.017	825834184	100.0	96.3	
3 Nitrite as N	4.175	4.209	-0.034	65046390	NC	NC	
4 Bromide	4.950	5.009	-0.059	11781050	5.00	4.88	
5 Nitrate as N	5.525	5.592	-0.067	76359589	NC	NC	
7 Orthophosphate as P	8.050	8.175	-0.125	24101512	NC	NC	
6 Sulfate	8.875	9.009	-0.134	518780576	100.0	95.3	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

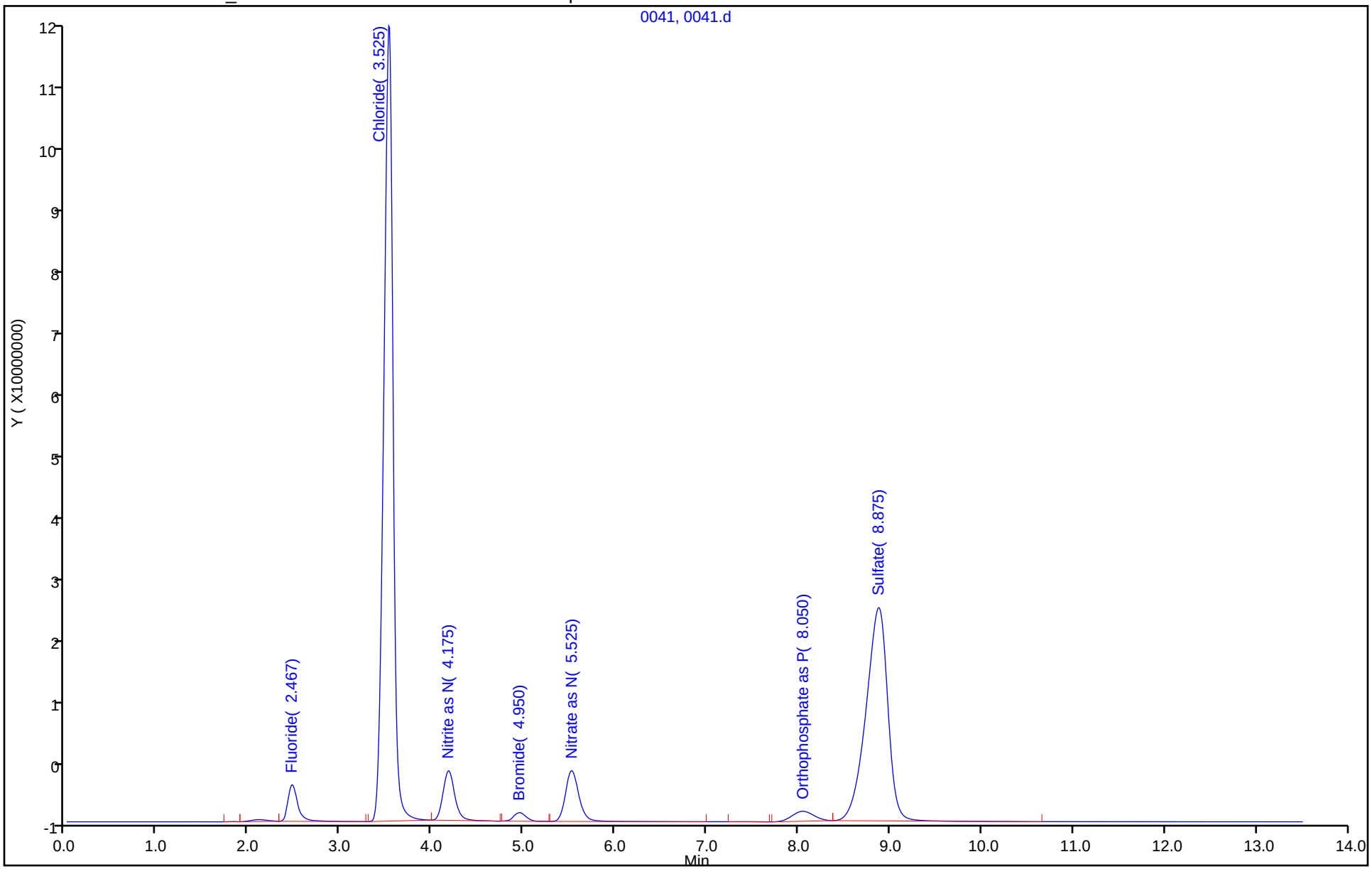
IC LCS_01747 Amount Added: 5.00 Units: mL

Report Date: 02-Jul-2020 08:57:28 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0041.d

Injection Date:	02-Jul-2020 02:11:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	ccv			Worklist Smp#:	41
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0042.d
Lims ID: ccb
Client ID:
Sample Type: CCB
Inject. Date: 02-Jul-2020 02:28:00 ALS Bottle#: 0 Worklist Smp#: 42
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 280-0092935-042
Misc. Info.: 29064 F
Operator ID: Instrument ID: WC_IonChrom11

Method: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\Anions_IC11.m
Limit Group: Wet - Anions 28D
Last Update: 02-Jul-2020 08:57:28 Calib Date: 09-Jun-2020 12:09:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200609-92247.b\0007.d

Column 1 : Det: 0005
Process Host: CTX1013

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 Fluoride	2.084	2.475	-0.391	142717		0.0469	
2 Chloride		3.542				ND	
3 Nitrite as N		4.209				ND	
4 Bromide		5.009				ND	
5 Nitrate as N		5.592				ND	
7 Orthophosphate as P	7.725	8.175	-0.450	444576		NC	
6 Sulfate	8.792	9.009	-0.217	319021		0.5476	

QC Flag Legend

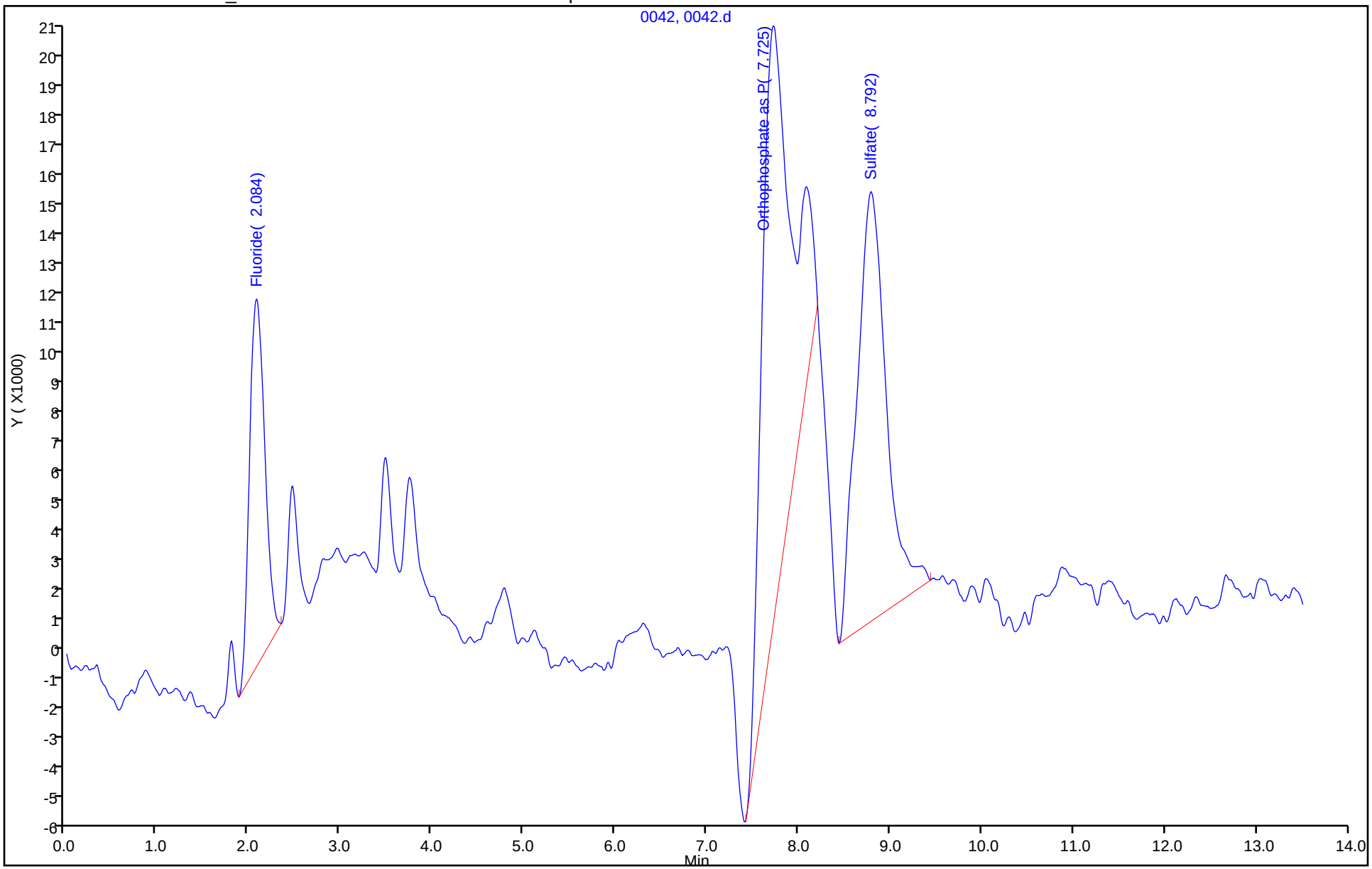
Processing Flags
NC - Not Calibrated

Report Date: 02-Jul-2020 08:57:29 Chrom Revision: 2.3 21-Jun-2020 18:30:46

Eurofins TestAmerica, Denver

Data File: \\chromfs\Denver\ChromData\WC_IonChrom11\20200701-92935.b\0042.d

Injection Date:	02-Jul-2020 02:28:00	Instrument ID:	WC_IonChrom11	Operator ID:	
Lims ID:	ccb			Worklist Smp#:	42
Client ID:					
Injection Vol:	10.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	Anions_IC11	Limit Group:	Wet - Anions 28D		



	Analysis	Sample Name	Manua	pH Result	Notes	Status	Date / Time	Vial
1*	NPOC	icv	1.000	<2		Defined		1
2*	NPOC	icb	1.000	<2		Defined		2
3*	NPOC	LCS 280-500659/1-A	1.000	<2		Defined		3
4*	NPOC	LCSD 280-500659/2-A	1.000	<2		Defined		4
5*	NPOC	MB 280-500659/3-A	1.000	<2		Defined		5
6*	NPOC	tic	1.000	<2		Defined		6
7*	NPOC	200-53950-B-1-E	1.000	5 6		Defined		7
8*	NPOC	200-53950-B-1-F MS	1.000	6		Defined		8
9*	NPOC	200-53950-B-1-G MSD	1.000	6		Defined		9
10*	NPOC	200-53950-B-2-A	1.000	5 6		Defined		10
11*	NPOC	200-53950-B-3-A	1.000	5 6		Defined		11
12*	NPOC	200-53950-B-4-A	1.000	5 6		Defined		12
13*	NPOC	200-53950-B-5-A	1.000	5		Defined		13
14*	NPOC	200-53950-B-6-A	1.000	5		Defined		14
15*	NPOC	200-53950-B-18-A	1.000	5		Defined		15
16*	NPOC	ccv	1.000	<2		Defined		16
17*	NPOC	ccb 950-19	1.000	<2		Defined		17
18*	NPOC	~~200-53950-B 200-53950~~	1.000	4		Defined		18
19*	NPOC	200-53950-B-20-A sus	1.000	5		Defined		19
20*	NPOC	200-53965-B-4-A 6/30/20	1.000	6		Defined		20
21*	NPOC	200-53950-B-21-A	1.000	6		Defined		21
22*	NPOC	200-53950-B-21-B MS	1.000	<2		Defined		22
23*	NPOC	200-53950-B-21-C MSD	1.000	<2		Defined		23
24*	NPOC	200-53965-B-6-A	1.000	6		Defined		24
25*	NPOC	200-53965-B-7-A	1.000	5		Defined		25
26*	NPOC	200-53965-B-5-B	1.000	5		Defined		26
27*	NPOC	200-53965-B-5-C MS	1.000	5		Defined		27
28*	NPOC	ccv	1.000	<2		Defined		28
29*	NPOC	ccb	1.000	<2		Defined		29
30*	NPOC	200-53965-B-5-D MSD	1.000	5		Defined		30
31*	NPOC	LCS 280-500659/25-A	1.000	<2		Defined		31
32*	NPOC	LCSD 280-500659/26-A	1.000	<2		Defined		32
33*	NPOC	MB 280-500659/27-A	1.000	<2		Defined		33
34*	NPOC	280-137736-D-9-A	1.000	6		Defined		34
35*	NPOC	280-137736-D-9-C MS	1.000	6		Defined		35
36*	NPOC	280-137736-D-9-D MSD	1.000	6		Defined		36
37*	NPOC	280-137736-D-3-A	1.000	7		Defined		37
38*	NPOC	280-137736-D-4-A	1.000	7		Defined		38
39*	NPOC	280-137736-D-5-A	1.000	7		Defined		39
40*	NPOC	ccv	1.000	<2		Defined		40
41*	NPOC	ccb	1.000	<2		Defined		41
42*	NPOC	280-137736-D-6-A	1.000	7		Defined		42
43*	NPOC	280-137736-D-7-A	1.000	7		Defined		43
44*	NPOC	280-137736-D-8-A	1.000	7		Defined		44
45*	NPOC	280-137736-D-10-A	1.000	7		Defined		45
46*	NPOC	280-137736-D-11-A	1.000	7		Defined		46
47*	NPOC	280-137736-D-12-A	1.000	7		Defined		47
48*	NPOC	280-137736-D-13-A	1.000	7		Defined		48
49*	NPOC	280-137736-D-13-B MS	1.000	7		Defined		49
50*	NPOC	280-137736-D-13-C MS	1.000	7		Defined		50
51*	NPOC	280-137736-D-14-A	1.000	7		Defined		51

	Analysis	Sample Name	Manua	pH Result	Notes	Status	Date / Time	Vial
52*	NPOC	ccv	1.000	<2		Defined		52
53*	NPOC	ccb	1.000	<2		Defined		53
54*	NPOC	280-137736-D-15-A	1.000	7		Defined		54
55*	NPOC	280-137736-D-16-A	1.000	7		Defined		55
56*	NPOC	280-137736-D-17-A	1.000	7		Defined		56
~~57*~~	~~NPOC~~	~~280-137609-D-24-C~~	1.000	7		Defined		57
58*	NPOC	280-137848-D-1-A	1.000	7		Defined		58
59*	NPOC	280-137848-D-2-A	1.000	7		Defined		59
60*	NPOC	280-137797-D-1-A	1.000	7		Defined		60
61*	NPOC	280-137797-D-2-A	1.000	7		Defined		61
62*	NPOC	ccv	1.000	<2		Defined		62
63*	NPOC	ccb	1.000	<2		Defined		63

<2

137686-D-2

	Analysis	Sample Name	Origin	Result	Notes	Status	Date / Time	Vial
1	NPOC	icv	NPOC.	NPOC:20.60m		Completed	7/2/2020 5:42:09 PM	1
2	NPOC	icb	NPOC.	NPOC:0.5905		Completed	7/2/2020 6:04:34 PM	2
3	NPOC	LCS 280-500659/1-A	NPOC.	NPOC:25.94m		Completed	7/2/2020 6:26:59 PM	3
4	NPOC	LCSD 280-500659/2-A	NPOC.	NPOC:25.39m		Completed	7/2/2020 6:49:25 PM	4
5	NPOC	MB 280-500659/3-A	NPOC.	NPOC:1.415m		Completed	7/2/2020 7:16:49 PM	5
6	NPOC	tic	NPOC.	NPOC:-0.1049		Completed	7/2/2020 7:43:51 PM	6
7	NPOC	200-53950-A-1-A	NPOC.	NPOC:5.844m		Completed	7/2/2020 8:06:16 PM	7
8	NPOC	200-53950-A-1-B MS	NPOC.	NPOC:33.46m		Completed	7/2/2020 8:28:56 PM	8
9	NPOC	200-53950-A-1-C MSD	NPOC.	NPOC:33.39m		Completed	7/2/2020 8:51:26 PM	9
10	NPOC	200-53950-A-2-A	NPOC.	NPOC:6.516m		Completed	7/2/2020 9:13:51 PM	10
11	NPOC	200-53950-B-3-A	NPOC.	NPOC:5.283m		Completed	7/2/2020 9:43:49 PM	11
12	NPOC	200-53950-A-4-A	NPOC.	NPOC:6.311m		Completed	7/2/2020 10:06:14 PM	12
13	NPOC	200-53950-B-5-A	NPOC.	NPOC:0.1846		Completed	7/2/2020 10:28:39 PM	13
14	NPOC	200-53950-B-6-A	NPOC.	NPOC:0.04102		Completed	7/2/2020 10:51:04 PM	14
15	NPOC	200-53950-B-18-A	NPOC.	NPOC:-0.0684		Completed	7/2/2020 11:13:29 PM	15
16	NPOC	ccv	NPOC.	NPOC:26.01m		Completed	7/2/2020 11:36:30 PM	16
17	NPOC	ccb	NPOC.	NPOC:0.4133		Completed	7/2/2020 11:58:55 PM	17
18	NPOC	200-53950-A-19-A	NPOC.	NPOC:0.5007		Completed	7/3/2020 12:21:20 AM	18
19	NPOC	200-53950-A-20-A	NPOC.	NPOC:6.610m		Completed	7/3/2020 12:43:45 AM	19
20	NPOC	200-53965-B-4-B	NPOC.	NPOC:8.114m		Completed	7/3/2020 1:06:10 AM	20
21	NPOC	200-53950-A-21-A	NPOC.	NPOC:6.210m		Completed	7/3/2020 1:28:35 AM	21
22	NPOC	200-53950-A-21-B MS	NPOC.	NPOC:33.66m		Completed	7/3/2020 1:51:43 AM	22
23	NPOC	200-53950-A-21-C MSD	NPOC.	NPOC:33.49m		Completed	7/3/2020 2:14:34 AM	23
24	NPOC	200-53965-B-6-A	NPOC.	NPOC:0.02133		Completed	7/3/2020 2:41:36 AM	24
25	NPOC	200-53965-B-7-A	NPOC.	NPOC:0.1294		Completed	7/3/2020 3:04:01 AM	25
26	NPOC	200-53965-B-5-B	NPOC.	NPOC:8.150m		Completed	7/3/2020 3:26:26 AM	26
27	NPOC	200-53965-B-5-C MS	NPOC.	NPOC:36.03m		Completed	7/3/2020 3:49:26 AM	27
28	NPOC	ccv	NPOC.	NPOC:26.65m		Completed	7/3/2020 4:12:37 AM	28
29	NPOC	ccb	NPOC.	NPOC:-0.0190		Completed	7/3/2020 4:35:03 AM	29
30	NPOC	200-53965-B-5-D MSD	NPOC.	NPOC:35.05m		Completed	7/3/2020 4:57:45 AM	30
31	NPOC	LCS 280-500659/25-A	NPOC.	NPOC:26.97m		Completed	7/3/2020 5:20:23 AM	31
32	NPOC	LCSD 280-500659/26-A	NPOC.	NPOC:27.20m		Completed	7/3/2020 5:43:10 AM	32
33	NPOC	MB 280-500659/27-A	NPOC.	NPOC:-0.1022		Completed	7/3/2020 6:05:36 AM	33
34	NPOC	280-137736-D-9-A	NPOC.	NPOC:2.050m		Completed	7/3/2020 6:28:01 AM	34
35	NPOC	280-137736-D-9-C MS	NPOC.	NPOC:29.40m		Completed	7/3/2020 6:51:24 AM	35
36	NPOC	280-137736-D-9-D MSD	NPOC.	NPOC:30.04m		Completed	7/3/2020 7:14:43 AM	36
37	NPOC	280-137736-D-3-A	NPOC.	NPOC:3.608m		Completed	7/3/2020 7:37:09 AM	37
38	NPOC	280-137736-D-4-A	NPOC.	NPOC:5.439m		Completed	7/3/2020 7:59:35 AM	38
39	NPOC	280-137736-D-5-A	NPOC.	NPOC:7.382m		Completed	7/3/2020 8:26:38 AM	39
40	NPOC	ccv	NPOC.	NPOC:27.55m		Completed	7/3/2020 8:49:14 AM	40
41	NPOC	ccb	NPOC.	NPOC:1.222m		Completed	7/3/2020 9:11:40 AM	41
42	NPOC	280-137736-D-6-A	NPOC.	NPOC:4.523m		Completed	7/3/2020 9:34:06 AM	42
43	NPOC	280-137736-D-7-A	NPOC.	NPOC:4.480m		Completed	7/3/2020 9:56:32 AM	43
44	NPOC	280-137736-D-8-A	NPOC.	NPOC:3.448m		Completed	7/3/2020 10:18:58 AM	44
45	NPOC	280-137736-D-10-A	NPOC.	NPOC:6.441m		Completed	7/3/2020 10:41:24 AM	45
46	NPOC	280-137736-D-11-A	NPOC.	NPOC:3.408m		Completed	7/3/2020 11:03:50 AM	46
47	NPOC	280-137736-D-12-A	NPOC.	NPOC:2.887m		Completed	7/3/2020 11:26:16 AM	47
48	NPOC	280-137736-D-13-A	NPOC.	NPOC:6.251m		Completed	7/3/2020 11:48:42 AM	48
49	NPOC	280-137736-D-13-B MS	NPOC.	NPOC:33.20m		Completed	7/3/2020 12:11:45 PM	49
50	NPOC	280-137736-D-13-C MSD	NPOC.	NPOC:34.29m		Completed	7/3/2020 12:34:52 PM	50
51	NPOC	280-137736-D-14-A	NPOC.	NPOC:4.003m		Completed	7/3/2020 12:57:18 PM	51
52	NPOC	ccv	NPOC.	NPOC:27.35m		Completed	7/3/2020 1:20:16 PM	52
53	NPOC	ccb	NPOC.	NPOC:-0.0276		Completed	7/3/2020 1:42:42 PM	53

	Analysis	Sample Name	Origin	Result	Notes	Status	Date / Time	Vial
54	NPOC	280-137736-D-15-A	NPOC.	NPOC:3.801m		Completed	7/3/2020 2:05:08 PM	54
55	NPOC	280-137736-D-16-A	NPOC.	NPOC:5.424m		Completed	7/3/2020 2:27:34 PM	55
56	NPOC	280-137736-D-17-A	NPOC.	NPOC:3.568m		Completed	7/3/2020 2:50:01 PM	56
57	NPOC	280-137848-D-1-A	NPOC.	NPOC:4.047m		Completed	7/3/2020 3:12:28 PM	57
58	NPOC	280-137848-D-2-A	NPOC.	NPOC:3.638m		Completed	7/3/2020 3:34:55 PM	58
59	NPOC	280-137797-D-1-A	NPOC.	NPOC:6.311m		Completed	7/3/2020 3:57:22 PM	59
60	NPOC	280-137797-D-2-A	NPOC.	NPOC:5.114m		Completed	7/3/2020 4:19:49 PM	60
61	NPOC	280-137686-D-2-A	NPOC.	NPOC:0.3971		Completed	7/3/2020 4:42:16 PM	61
62	NPOC	ccv	NPOC.	NPOC:27.10m		Completed	7/3/2020 5:05:00 PM	62
63	NPOC	ccb	NPOC.	NPOC:0.4236		Completed	7/3/2020 5:27:46 PM	63

TOC-V Cal Curve Information
C:¥TOC3201¥CalCurves¥NPOC.2020_06_15_14_56_20.cal

Date of Creation 4:11:58 PM 6/15/2020
User sgb
System TOC-V CPN

Cal. Curve

Sample Name: cal
Sample ID:
Object ID 0A-100612-04635090-1343CA723828-0000
Cal. Curve: NPOC.2020_06_15_14_56_20.cal
Status Completed
Comment:

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.6345	50uL	1	*******	E	6/15/2020 3:05:05 PM
2	2.558	50uL	1	*******		6/15/2020 3:07:11 PM
3	2.840	50uL	1	*******	E	6/15/2020 3:09:22 PM
4	2.342	50uL	1	*******		6/15/2020 3:11:28 PM

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 2.450
SD Area 0.1527
CV Area 6.23%
Vial 1

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	5.629	50uL	1	*******	E	6/15/2020 3:19:57 PM
2	6.139	50uL	1	*******		6/15/2020 3:22:03 PM
3	4.772	50uL	1	*******	E	6/15/2020 3:24:09 PM
4	6.011	50uL	1	*******		6/15/2020 3:26:14 PM

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 6.075
SD Area 0.09051
CV Area 1.49%
Vial 2

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	17.91	50uL	1	*******	E	6/15/2020 3:34:55 PM
2	16.89	50uL	1	*******		6/15/2020 3:37:01 PM
3	16.43	50uL	1	*******		6/15/2020 3:39:07 PM

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 16.66
SD Area 0.3253
CV Area 1.95%
Vial 3

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	33.12	50uL	1	*******		6/15/2020 3:47:50 PM
2	32.65	50uL	1	*******		6/15/2020 3:49:56 PM

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 32.89
SD Area 0.3323
CV Area 1.01%
Vial 4

Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	79.57	50uL	1	*******		6/15/2020 3:58:49 PM
2	78.98	50uL	1	*******		6/15/2020 4:00:59 PM

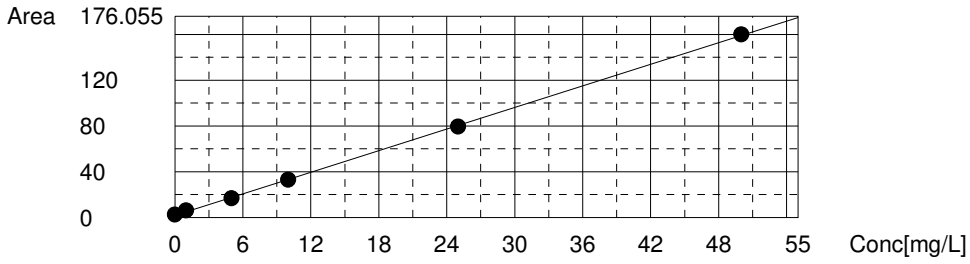
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 79.28
SD Area 0.4172
CV Area 0.53%
Vial 5

Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	159.6	50uL	1	*******		6/15/2020 4:09:45 PM
2	160.5	50uL	1	*******		6/15/2020 4:11:58 PM

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 160.1
SD Area 0.6364
CV Area 0.40%
Vial 6

Slope: 3.149
Intercept 1.799
r^2 0.9997
r 0.9999
Zero Shift No



Instr.Information

System	TOC-V CPN
Instrument Options	TOC/ASI/
Catalyst	Regular Sensitivity

Sample

Sample Name:	icv
Sample ID:	
Origin:	NPOC.met
Status	Completed
Chk. Result	

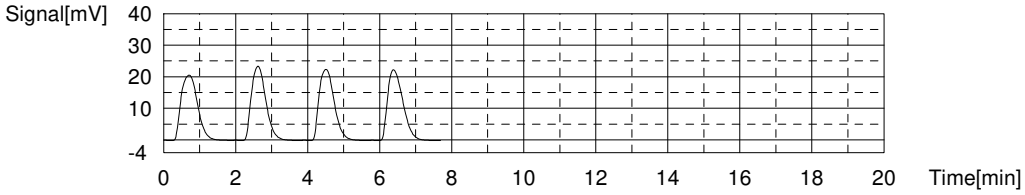
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.60mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	66.75	20.62mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 5:28:15 PM
2	66.57	20.57mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 5:32:52 PM
3	66.48	20.54mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 5:37:29 PM
4	66.89	20.67mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 5:42:09 PM

Mean Area 66.67
Mean Conc. 20.60mg/L



Sample

Sample Name:	icb
Sample ID:	
Origin:	NPOC.met
Status	Completed
Chk. Result	

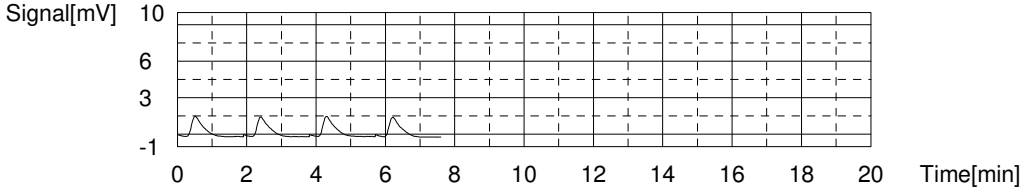
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5905mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.801	0.6356mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 5:50:43 PM
2	3.579	0.5652mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 5:55:20 PM
3	3.650	0.5877mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 5:59:57 PM
4	3.605	0.5734mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 6:04:34 PM

Mean Area 3.659
Mean Conc. 0.5905mg/L



Sample

Sample Name: LCS 280-500659/1-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

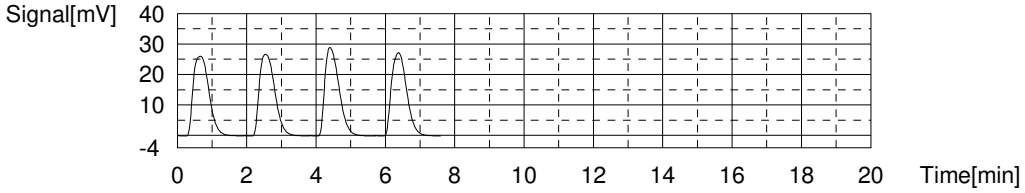
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.94mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	83.43	25.92mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 6:13:08 PM
2	83.50	25.94mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 6:17:45 PM
3	83.44	25.92mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 6:22:22 PM
4	83.66	25.99mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 6:26:59 PM

Mean Area 83.51
Mean Conc. 25.94mg/L



Sample

Sample Name: LCSD 280-500659/2-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

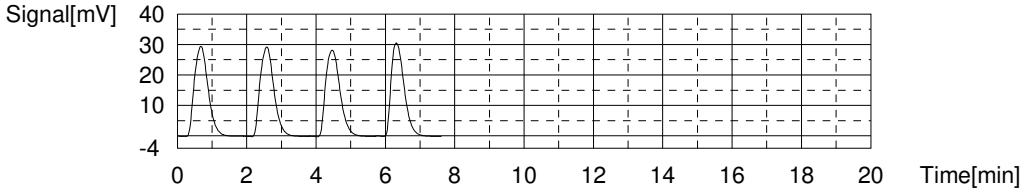
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.39mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	82.25	25.54mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 6:35:32 PM
2	81.89	25.43mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 6:40:10 PM
3	82.33	25.57mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 6:44:47 PM
4	80.64	25.03mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 6:49:25 PM

Mean Area 81.78
Mean Conc. 25.39mg/L



Sample

Sample Name: MB 280-500659/3-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

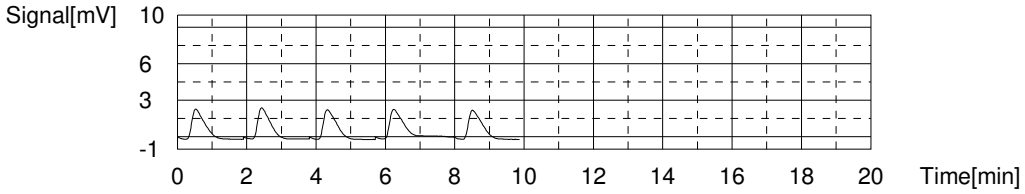
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.415mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.311	1.433mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 6:57:59 PM
2	6.180	1.391mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 7:02:36 PM
3	6.175	1.389mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 7:07:13 PM
4	7.019	1.657mg/L	50uL	1	E	NPOC.2020_06_15_14_56_20.cal	7/2/2020 7:12:12 PM
5	6.350	1.445mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 7:16:49 PM

Mean Area 6.254
Mean Conc. 1.415mg/L



Sample

Sample Name: tic
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

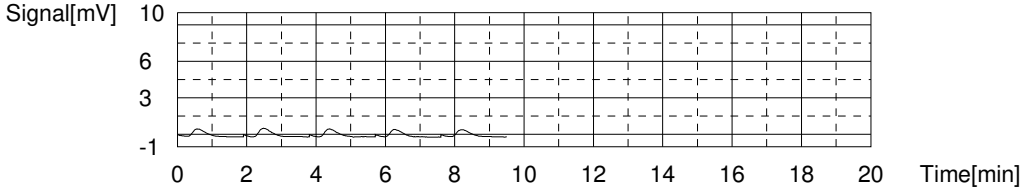
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.1049mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.488	-0.09877mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 7:25:23 PM
2	1.723	-0.02415mg/L	50uL	1	E	NPOC.2020_06_15_14_56_20.cal	7/2/2020 7:30:00 PM
3	1.582	-0.06892mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 7:34:37 PM
4	1.361	-0.1391mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 7:39:14 PM
5	1.444	-0.1127mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 7:43:51 PM

Mean Area 1.469
Mean Conc. -0.1049mg/L



Sample

Sample Name: 200-53950-A-1-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

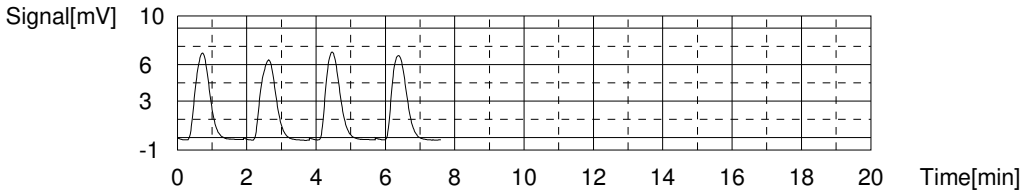
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.844mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.38	5.900mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 7:52:25 PM
2	20.03	5.789mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 7:57:02 PM
3	20.17	5.833mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 8:01:39 PM
4	20.24	5.855mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 8:06:16 PM

Mean Area 20.21
Mean Conc. 5.844mg/L



Sample

Sample Name: 200-53950-A-1-B MS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

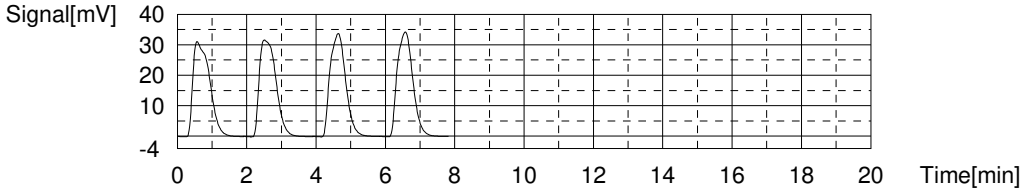
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:33.46mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	105.3	32.86mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 8:14:50 PM
2	107.5	33.56mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 8:19:33 PM
3	107.4	33.53mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 8:24:12 PM
4	108.5	33.88mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 8:28:56 PM

Mean Area 107.2
Mean Conc. 33.46mg/L



Sample

Sample Name: 200-53950-A-1-C MSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

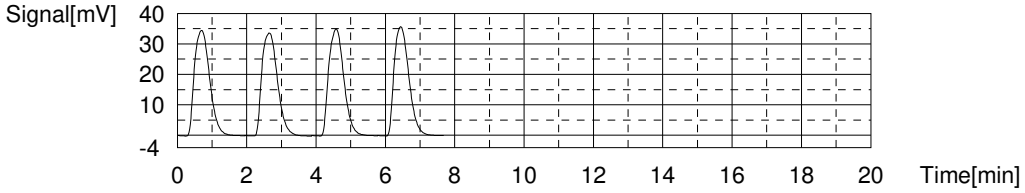
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:33.39mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	107.0	33.40mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 8:37:33 PM
2	106.4	33.21mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 8:42:11 PM
3	107.4	33.53mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 8:46:48 PM
4	107.1	33.43mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 8:51:26 PM

Mean Area 107.0
Mean Conc. 33.39mg/L



Sample

Sample Name: 200-53950-A-2-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

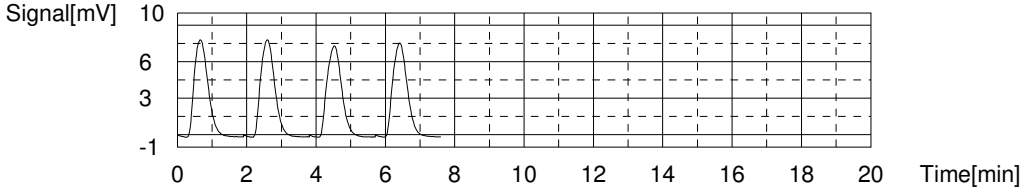
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.516mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	22.16	6.465mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 9:00:00 PM
2	22.59	6.601mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 9:04:37 PM
3	22.13	6.455mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 9:09:14 PM
4	22.40	6.541mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 9:13:51 PM

Mean Area 22.32
Mean Conc. 6.516mg/L



Sample

Sample Name: 200-53950-B-3-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

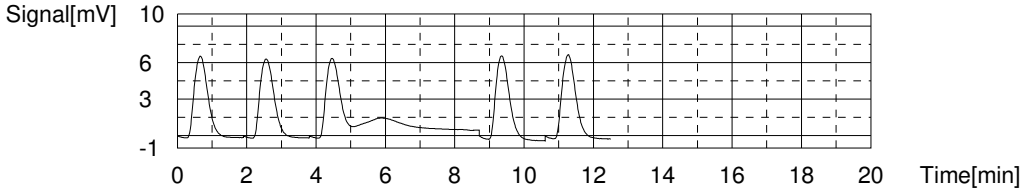
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.283mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.23	5.217mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 9:22:24 PM
2	18.28	5.233mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 9:27:01 PM
3	32.56	9.767mg/L	50uL	1	E	NPOC.2020_06_15_14_56_20.cal	7/2/2020 9:34:38 PM
4	18.37	5.262mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 9:39:12 PM
5	18.87	5.420mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 9:43:49 PM

Mean Area 18.44
Mean Conc. 5.283mg/L



Sample

Sample Name: 200-53950-A-4-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

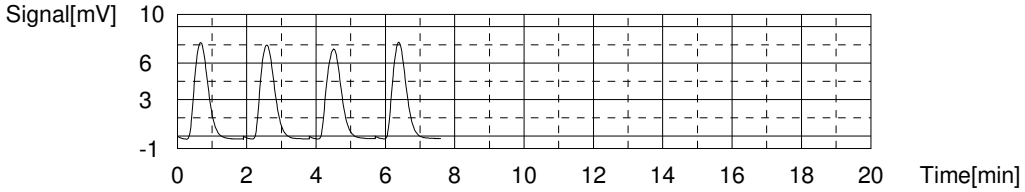
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.311mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	21.63	6.297mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 9:52:23 PM
2	21.78	6.344mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 9:57:00 PM
3	21.65	6.303mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 10:01:37 PM
4	21.64	6.300mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 10:06:14 PM

Mean Area 21.68
Mean Conc. 6.311mg/L



Sample

Sample Name: 200-53950-B-5-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

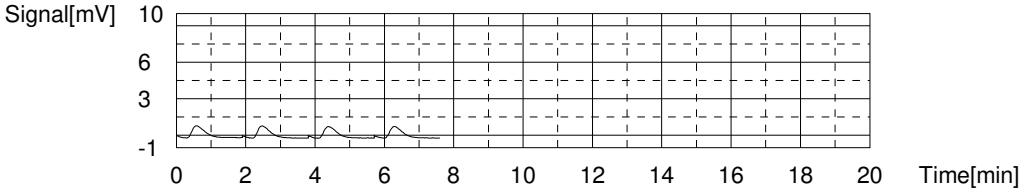
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1846mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.493	0.2203mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 10:14:48 PM
2	2.376	0.1832mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 10:19:25 PM
3	2.351	0.1752mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 10:24:02 PM
4	2.302	0.1597mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 10:28:39 PM

Mean Area 2.381
Mean Conc. 0.1846mg/L



Sample

Sample Name: 200-53950-B-6-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

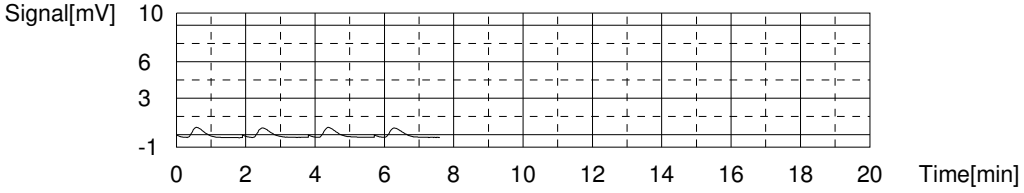
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.04102mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.917	0.03744mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 10:37:13 PM
2	1.901	0.03236mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 10:41:50 PM
3	2.006	0.06570mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 10:46:27 PM
4	1.889	0.02855mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 10:51:04 PM

Mean Area 1.928
Mean Conc. 0.04102mg/L



Sample

Sample Name: 200-53950-B-18-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

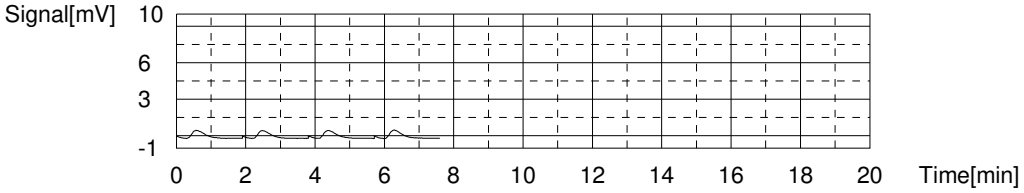
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.06845mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.660	-0.04416mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 10:59:38 PM
2	1.529	-0.08575mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 11:04:15 PM
3	1.553	-0.07813mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 11:08:52 PM
4	1.592	-0.06575mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 11:13:29 PM

Mean Area 1.583
Mean Conc. -0.06845mg/L



Sample

Sample Name: ccv
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

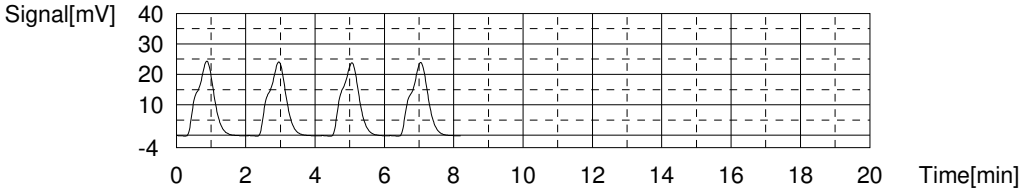
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.01mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	84.25	26.18mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 11:22:13 PM
2	84.00	26.10mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 11:27:03 PM
3	82.90	25.75mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 11:31:44 PM
4	83.74	26.02mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 11:36:30 PM

Mean Area 83.72
Mean Conc. 26.01mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

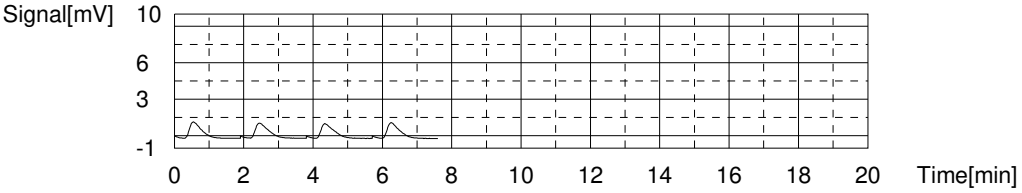
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4133mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.149	0.4286mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 11:45:04 PM
2	3.154	0.4302mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 11:49:41 PM
3	3.029	0.3905mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 11:54:18 PM
4	3.071	0.4039mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/2/2020 11:58:55 PM

Mean Area 3.101
Mean Conc. 0.4133mg/L



Sample

Sample Name: 200-53950-A-19-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

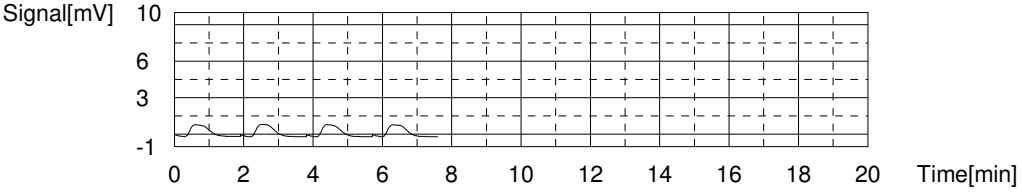
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5007mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.366	0.4975mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 12:07:29 AM
2	3.381	0.5023mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 12:12:06 AM
3	3.400	0.5083mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 12:16:43 AM
4	3.357	0.4947mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 12:21:20 AM

Mean Area 3.376
Mean Conc. 0.5007mg/L



Sample

Sample Name: 200-53950-A-20-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

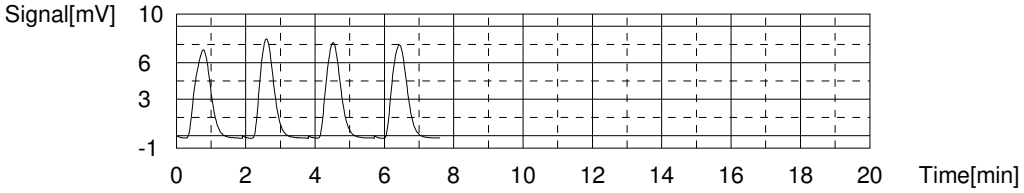
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.610mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	22.68	6.630mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 12:29:54 AM
2	22.41	6.544mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 12:34:31 AM
3	22.54	6.586mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 12:39:08 AM
4	22.84	6.681mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 12:43:45 AM

Mean Area 22.62
Mean Conc. 6.610mg/L



Sample

Sample Name: 200-53965-B-4-B
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

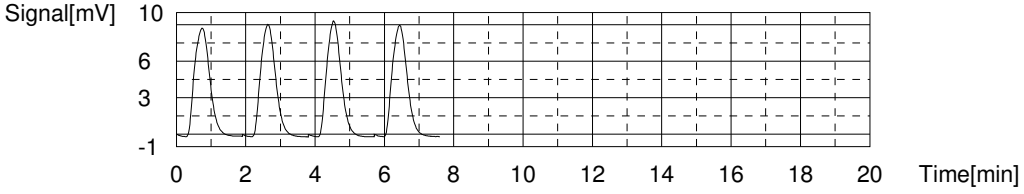
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.114mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	27.37	8.119mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 12:52:19 AM
2	27.37	8.119mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 12:56:56 AM
3	27.48	8.154mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 1:01:33 AM
4	27.20	8.065mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 1:06:10 AM

Mean Area 27.36
Mean Conc. 8.114mg/L



Sample

Sample Name: 200-53950-A-21-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

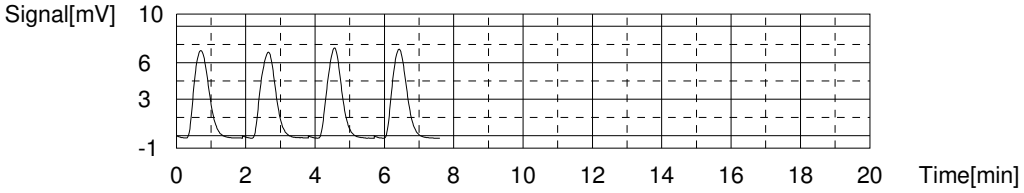
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.210mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	21.35	6.208mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 1:14:44 AM
2	21.26	6.179mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 1:19:21 AM
3	21.50	6.255mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 1:23:58 AM
4	21.32	6.198mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 1:28:35 AM

Mean Area 21.36
Mean Conc. 6.210mg/L



Sample

Sample Name: 200-53950-A-21-B MS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

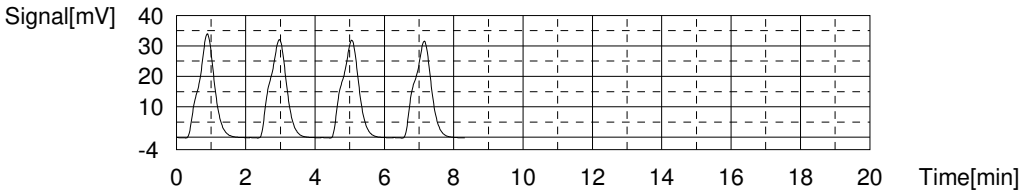
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:33.66mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	108.0	33.72mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 1:37:21 AM
2	107.9	33.69mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 1:42:08 AM
3	107.9	33.69mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 1:46:56 AM
4	107.4	33.53mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 1:51:43 AM

Mean Area 107.8
Mean Conc. 33.66mg/L



Sample

Sample Name: 200-53950-A-21-C MSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

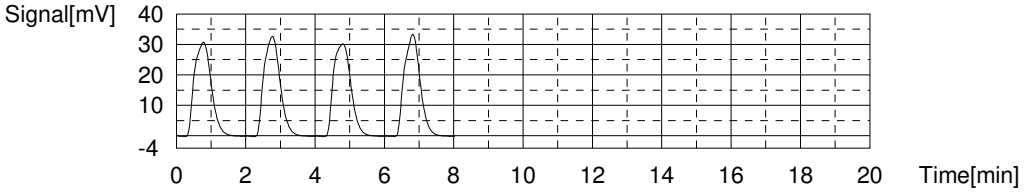
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:33.49mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	106.2	33.15mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:00:23 AM
2	107.7	33.63mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:05:07 AM
3	107.4	33.53mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:09:51 AM
4	107.8	33.66mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:14:34 AM

Mean Area 107.3
Mean Conc. 33.49mg/L



Sample

Sample Name: 200-53965-B-6-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

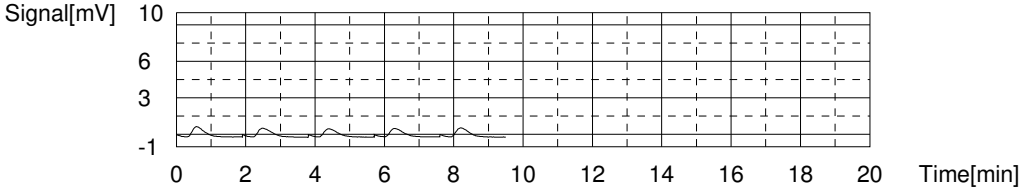
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.02133mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.962	0.05173mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:23:08 AM
2	1.897	0.03109mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:27:45 AM
3	1.733	-0.02098mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:32:22 AM
4	1.699	-0.03177mg/L	50uL	1	E	NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:36:59 AM
5	1.873	0.02347mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:41:36 AM

Mean Area 1.866
Mean Conc. 0.02133mg/L



Sample

Sample Name: 200-53965-B-7-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

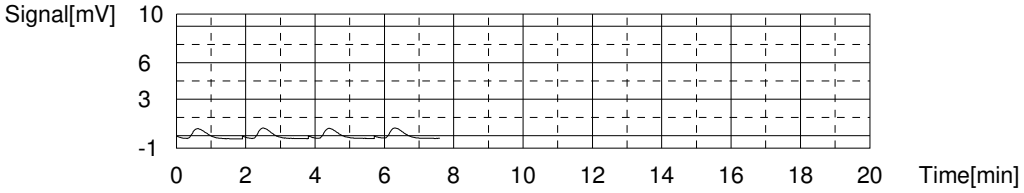
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1294mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.166	0.1165mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:50:10 AM
2	2.248	0.1425mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:54:47 AM
3	2.187	0.1232mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:59:24 AM
4	2.226	0.1356mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 3:04:01 AM

Mean Area 2.207
Mean Conc. 0.1294mg/L



Sample

Sample Name: 200-53965-B-5-B
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

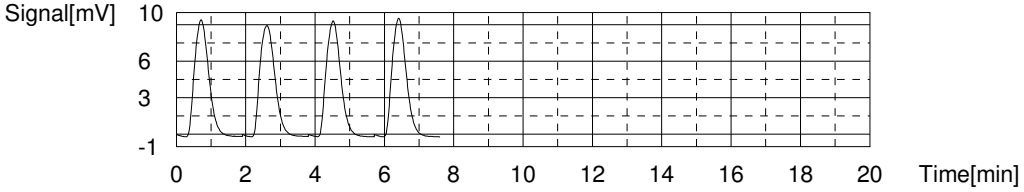
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.150mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	27.40	8.129mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 3:12:35 AM
2	27.35	8.113mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 3:17:12 AM
3	27.46	8.148mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 3:21:49 AM
4	27.66	8.211mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 3:26:26 AM

Mean Area 27.47
Mean Conc. 8.150mg/L



Sample

Sample Name: 200-53965-B-5-C MS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

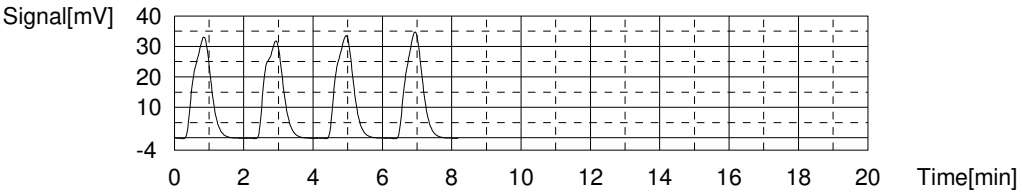
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:36.03mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	114.6	35.82mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 3:35:11 AM
2	114.8	35.88mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 3:39:56 AM
3	116.1	36.29mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 3:44:39 AM
4	115.6	36.13mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 3:49:26 AM

Mean Area 115.3
Mean Conc. 36.03mg/L



Sample

Sample Name: ccv
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

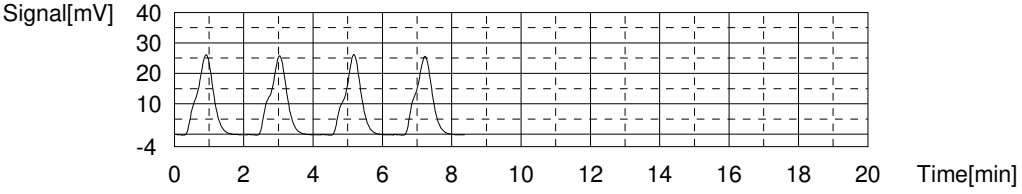
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.65mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	86.45	26.88mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 3:58:13 AM
2	86.24	26.81mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 4:03:04 AM
3	85.22	26.49mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 4:07:52 AM
4	85.07	26.44mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 4:12:37 AM

Mean Area 85.74
Mean Conc. 26.65mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

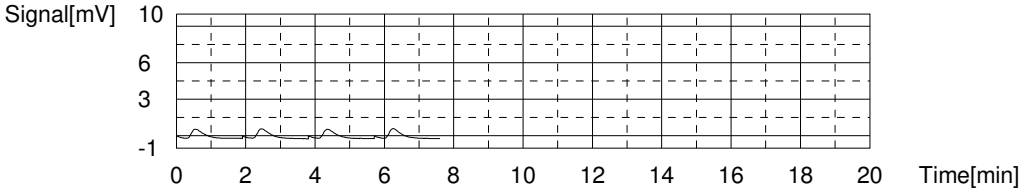
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.01907mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.733	-0.02098mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 4:21:11 AM
2	1.771	-0.00891mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 4:25:49 AM
3	1.700	-0.03146mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 4:30:26 AM
4	1.752	-0.01494mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 4:35:03 AM

Mean Area 1.739
Mean Conc. -0.01907mg/L



Sample

Sample Name: 200-53965-B-5-D MSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

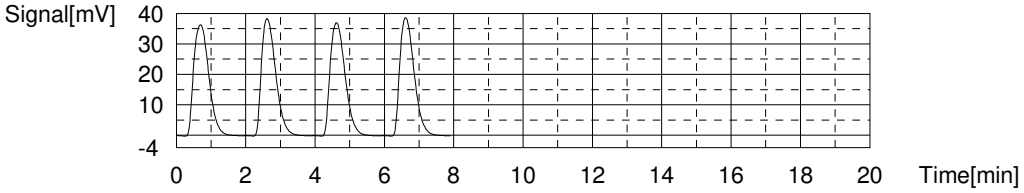
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:35.05mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	112.0	34.99mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 4:43:40 AM
2	111.0	34.67mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 4:48:21 AM
3	112.9	35.28mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 4:53:05 AM
4	112.8	35.24mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 4:57:45 AM

Mean Area 112.2
Mean Conc. 35.05mg/L



Sample

Sample Name: LCS 280-500659/25-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

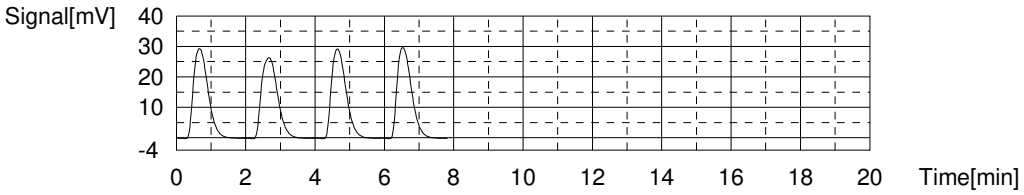
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.97mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	86.88	27.01mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 5:06:22 AM
2	86.56	26.91mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 5:11:07 AM
3	86.60	26.93mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 5:15:44 AM
4	86.98	27.05mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 5:20:23 AM

Mean Area 86.76
Mean Conc. 26.97mg/L



Sample

Sample Name: LCSD 280-500659/26-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

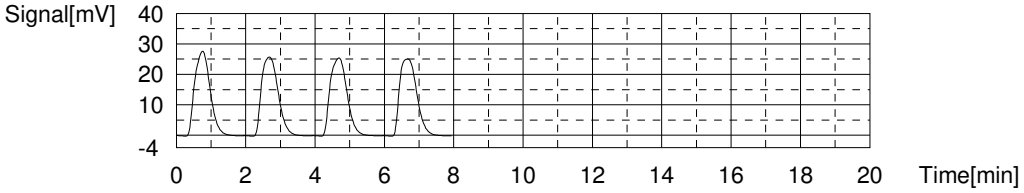
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.20mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	87.33	27.16mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 5:29:02 AM
2	87.41	27.18mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 5:33:43 AM
3	87.35	27.16mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 5:38:28 AM
4	87.82	27.31mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 5:43:10 AM

Mean Area 87.48
Mean Conc. 27.20mg/L



Sample

Sample Name: MB 280-500659/27-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

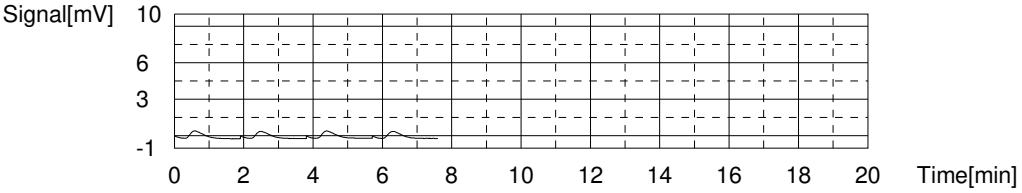
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.1022mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.515	-0.09020mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 5:51:45 AM
2	1.449	-0.1112mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 5:56:22 AM
3	1.480	-0.1013mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 6:00:59 AM
4	1.465	-0.1061mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 6:05:36 AM

Mean Area 1.477
Mean Conc. -0.1022mg/L



Sample

Sample Name: 280-137736-D-9-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

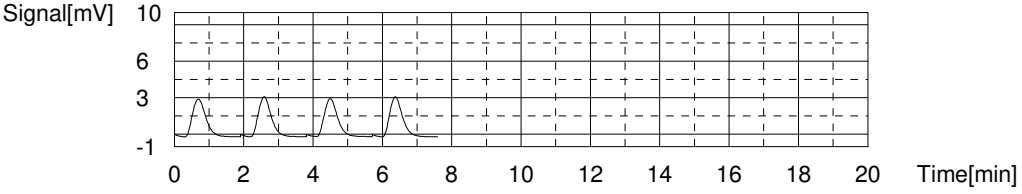
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.050mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.248	2.048mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 6:14:11 AM
2	8.424	2.104mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 6:18:48 AM
3	8.118	2.006mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 6:23:25 AM
4	8.227	2.041mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 6:28:01 AM

Mean Area 8.254
Mean Conc. 2.050mg/L



Sample

Sample Name: 280-137736-D-9-C MS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

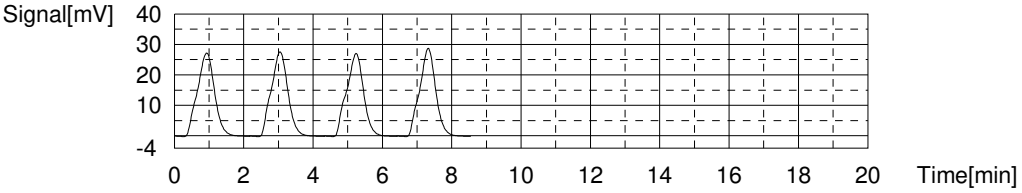
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:29.40mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	95.44	29.73mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 6:36:52 AM
2	93.78	29.21mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 6:41:44 AM
3	93.88	29.24mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 6:46:33 AM
4	94.49	29.43mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 6:51:24 AM

Mean Area 94.40
Mean Conc. 29.40mg/L



Sample

Sample Name: 280-137736-D-9-D MSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

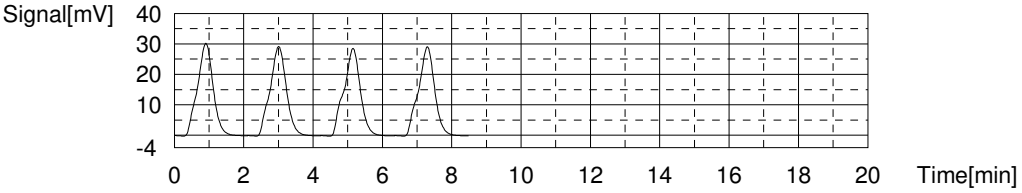
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:30.04mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	96.67	30.12mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 7:00:11 AM
2	96.94	30.21mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 7:05:01 AM
3	95.92	29.88mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 7:09:52 AM
4	96.14	29.95mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 7:14:43 AM

Mean Area 96.42
Mean Conc. 30.04mg/L



Sample

Sample Name: 280-137736-D-3-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

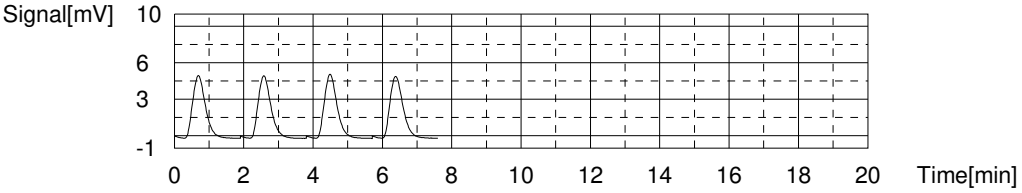
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.608mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.09	3.585mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 7:23:18 AM
2	13.03	3.566mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 7:27:55 AM
3	13.29	3.649mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 7:32:32 AM
4	13.24	3.633mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 7:37:09 AM

Mean Area 13.16
Mean Conc. 3.608mg/L



Sample

Sample Name: 280-137736-D-4-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

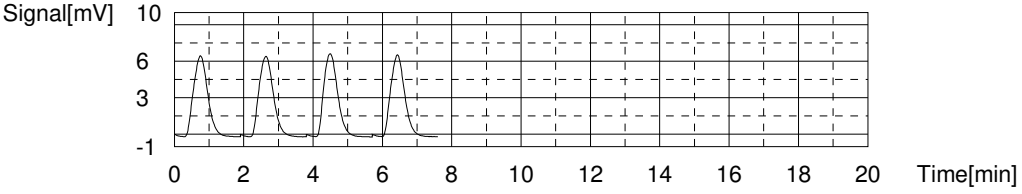
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.439mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	19.05	5.477mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 7:45:44 AM
2	19.09	5.490mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 7:50:21 AM
3	18.84	5.411mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 7:54:58 AM
4	18.74	5.379mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 7:59:35 AM

Mean Area 18.93
Mean Conc. 5.439mg/L



Sample

Sample Name: 280-137736-D-5-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

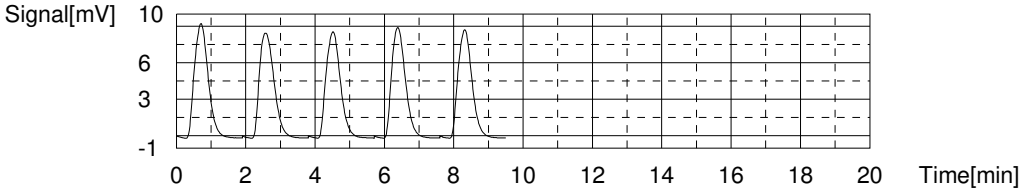
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.382mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	26.12	7.722mg/L	50uL	1	E	NPOC.2020_06_15_14_56_20.cal	7/3/2020 8:08:10 AM
2	25.23	7.440mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 8:12:47 AM
3	25.01	7.370mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 8:17:24 AM
4	25.02	7.373mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 8:22:01 AM
5	24.93	7.344mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 8:26:38 AM

Mean Area 25.05
Mean Conc. 7.382mg/L



Sample

Sample Name: ccv
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

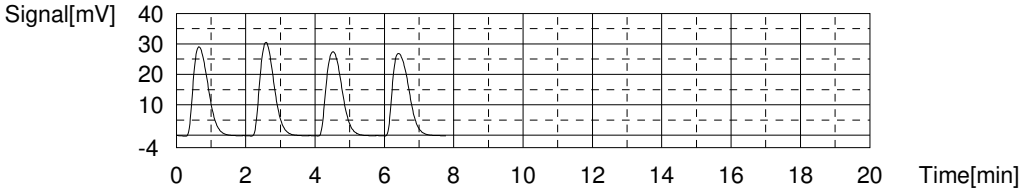
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.55mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	88.13	27.41mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 8:35:13 AM
2	88.95	27.67mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 8:39:51 AM
3	88.08	27.40mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 8:44:30 AM
4	89.05	27.70mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 8:49:14 AM

Mean Area 88.55
Mean Conc. 27.55mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

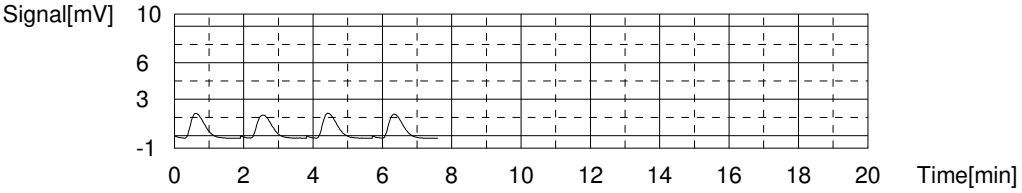
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.222mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.665	1.227mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 8:57:49 AM
2	5.591	1.204mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 9:02:26 AM
3	5.779	1.264mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 9:07:03 AM
4	5.551	1.191mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 9:11:40 AM

Mean Area 5.646
Mean Conc. 1.222mg/L



Sample

Sample Name: 280-137736-D-6-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

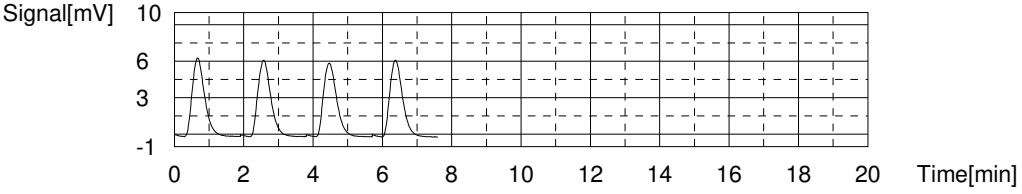
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.523mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.10	4.541mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 9:20:15 AM
2	16.19	4.569mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 9:24:52 AM
3	15.78	4.439mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 9:29:29 AM
4	16.10	4.541mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 9:34:06 AM

Mean Area 16.04
Mean Conc. 4.523mg/L



Sample

Sample Name: 280-137736-D-7-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

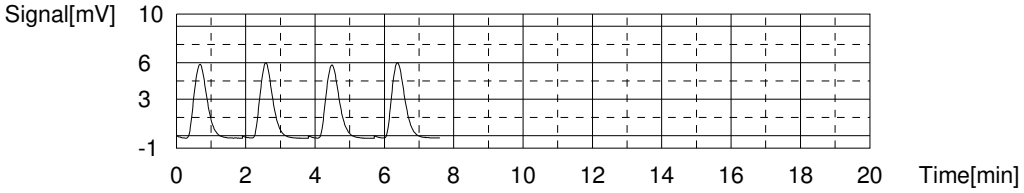
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.480mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	15.78	4.439mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 9:42:41 AM
2	15.61	4.385mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 9:47:18 AM
3	16.01	4.512mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 9:51:55 AM
4	16.24	4.585mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 9:56:32 AM

Mean Area 15.91
Mean Conc. 4.480mg/L



Sample

Sample Name: 280-137736-D-8-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

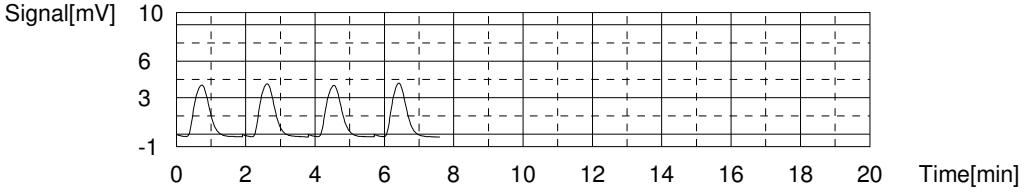
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.448mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.67	3.452mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 10:05:07 AM
2	12.71	3.464mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 10:09:44 AM
3	12.69	3.458mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 10:14:21 AM
4	12.56	3.417mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 10:18:58 AM

Mean Area 12.66
Mean Conc. 3.448mg/L



Sample

Sample Name: 280-137736-D-10-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

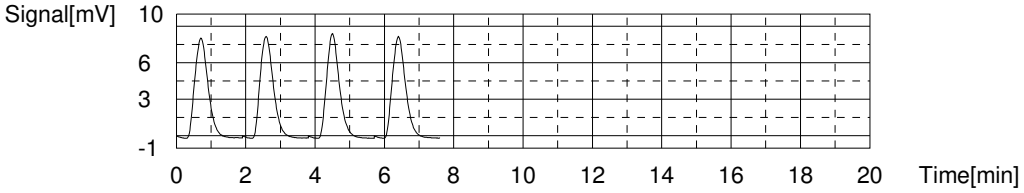
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.441mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	21.98	6.408mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 10:27:33 AM
2	22.24	6.490mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 10:32:10 AM
3	21.99	6.411mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 10:36:47 AM
4	22.13	6.455mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 10:41:24 AM

Mean Area 22.09
Mean Conc. 6.441mg/L



Sample

Sample Name: 280-137736-D-11-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

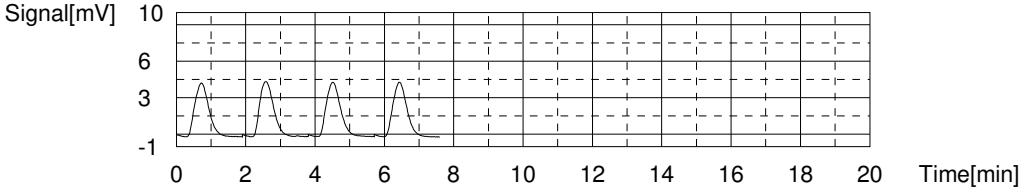
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.408mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.42	3.372mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 10:49:59 AM
2	12.60	3.429mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 10:54:36 AM
3	12.60	3.429mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 10:59:13 AM
4	12.51	3.401mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 11:03:50 AM

Mean Area 12.53
Mean Conc. 3.408mg/L



Sample

Sample Name: 280-137736-D-12-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

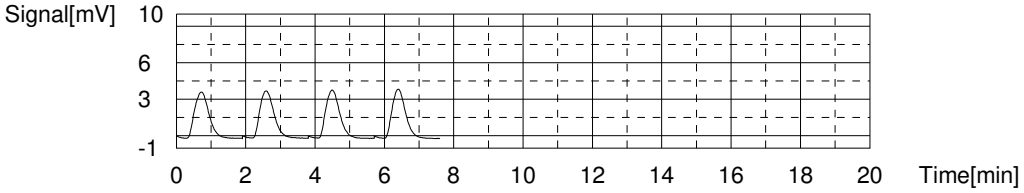
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.887mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.94	2.902mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 11:12:25 AM
2	10.82	2.864mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 11:17:02 AM
3	10.99	2.918mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 11:21:39 AM
4	10.82	2.864mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 11:26:16 AM

Mean Area 10.89
Mean Conc. 2.887mg/L



Sample

Sample Name: 280-137736-D-13-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

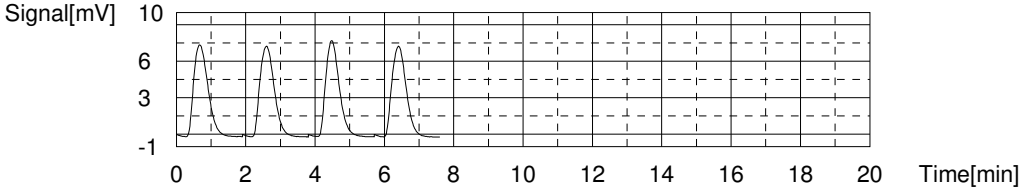
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.251mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	21.72	6.325mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 11:34:51 AM
2	21.47	6.246mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 11:39:28 AM
3	21.41	6.227mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 11:44:05 AM
4	21.35	6.208mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 11:48:42 AM

Mean Area 21.49
Mean Conc. 6.251mg/L



Sample

Sample Name: 280-137736-D-13-B MS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

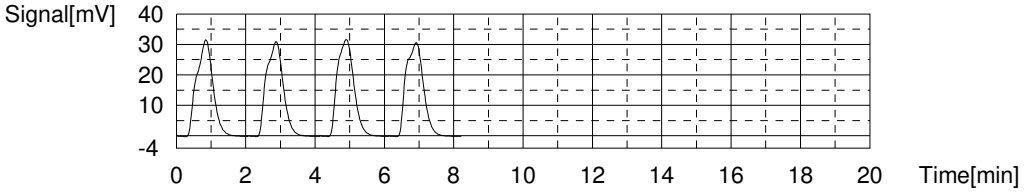
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:33.20mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	105.1	32.80mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 11:57:26 AM
2	105.5	32.93mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 12:02:13 PM
3	106.6	33.28mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 12:06:55 PM
4	108.2	33.78mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 12:11:45 PM

Mean Area 106.4
Mean Conc. 33.20mg/L



Sample

Sample Name: 280-137736-D-13-C MSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

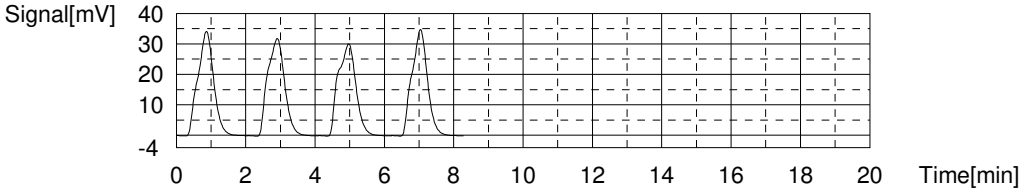
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:34.29mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	110.1	34.39mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 12:20:30 PM
2	110.1	34.39mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 12:25:15 PM
3	108.8	33.97mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 12:30:04 PM
4	110.2	34.42mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 12:34:52 PM

Mean Area 109.8
Mean Conc. 34.29mg/L



Sample

Sample Name: 280-137736-D-14-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

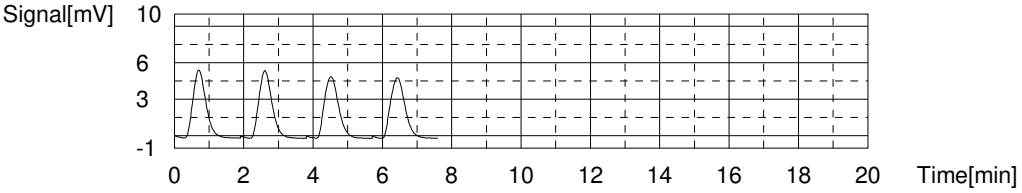
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.003mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.44	4.014mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 12:43:27 PM
2	14.55	4.049mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 12:48:04 PM
3	14.22	3.944mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 12:52:41 PM
4	14.42	4.007mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 12:57:18 PM

Mean Area 14.41
Mean Conc. 4.003mg/L



Sample

Sample Name: ccv
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

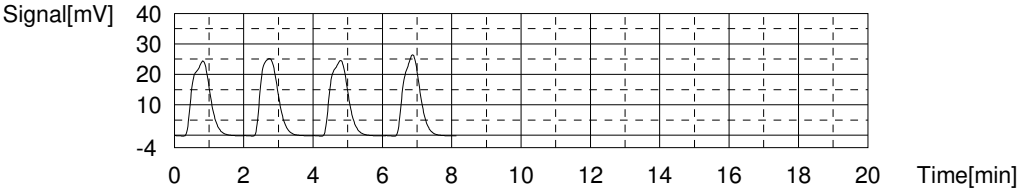
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.35mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	87.49	27.21mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 1:05:59 PM
2	88.33	27.47mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 1:10:41 PM
3	87.89	27.34mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 1:15:30 PM
4	88.05	27.39mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 1:20:16 PM

Mean Area 87.94
Mean Conc. 27.35mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

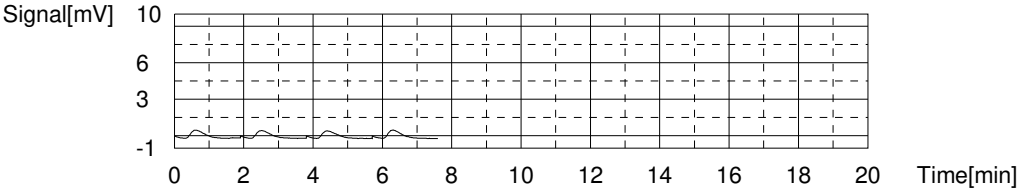
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.02765mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.789	-0.00320mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 1:28:51 PM
2	1.674	-0.03971mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 1:33:28 PM
3	1.689	-0.03495mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 1:38:05 PM
4	1.696	-0.03273mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 1:42:42 PM

Mean Area 1.712
Mean Conc. -0.02765mg/L



Sample

Sample Name: 280-137736-D-15-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

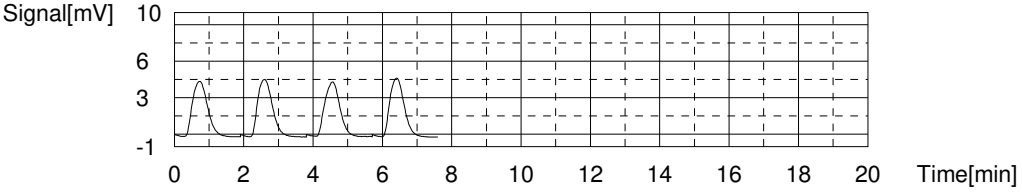
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.801mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.82	3.817mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 1:51:17 PM
2	13.89	3.839mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 1:55:54 PM
3	13.47	3.706mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:00:31 PM
4	13.90	3.842mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:05:08 PM

Mean Area 13.77
Mean Conc. 3.801mg/L



Sample

Sample Name: 280-137736-D-16-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

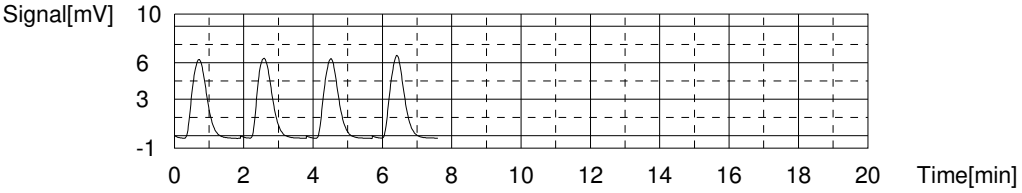
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.424mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.80	5.398mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:13:43 PM
2	19.04	5.474mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:18:20 PM
3	18.68	5.360mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:22:57 PM
4	19.01	5.465mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:27:34 PM

Mean Area 18.88
Mean Conc. 5.424mg/L



Sample

Sample Name: 280-137736-D-17-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

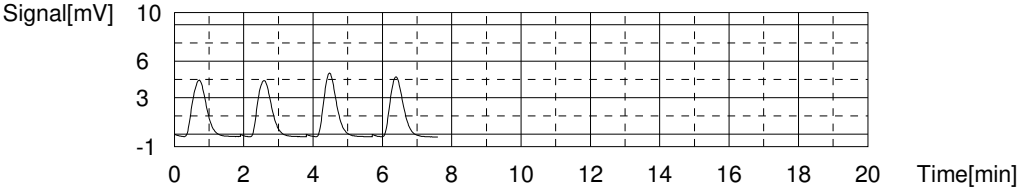
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.568mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.99	3.553mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:36:10 PM
2	12.84	3.506mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:40:47 PM
3	13.23	3.629mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:45:24 PM
4	13.08	3.582mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:50:01 PM

Mean Area 13.04
Mean Conc. 3.568mg/L



Sample

Sample Name: 280-137848-D-1-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

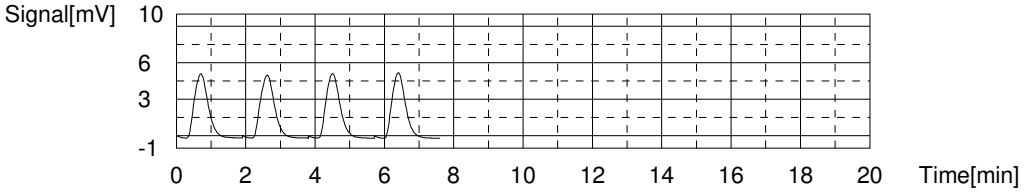
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.047mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.56	4.052mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 2:58:37 PM
2	14.46	4.020mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 3:03:14 PM
3	14.69	4.093mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 3:07:51 PM
4	14.47	4.023mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 3:12:28 PM

Mean Area 14.55
Mean Conc. 4.047mg/L



Sample

Sample Name: 280-137848-D-2-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

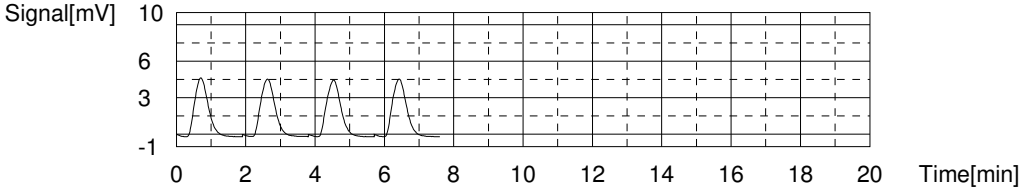
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.638mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.13	3.598mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 3:21:04 PM
2	13.43	3.693mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 3:25:41 PM
3	13.26	3.639mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 3:30:18 PM
4	13.21	3.623mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 3:34:55 PM

Mean Area 13.26
Mean Conc. 3.638mg/L



Sample

Sample Name: 280-137797-D-1-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

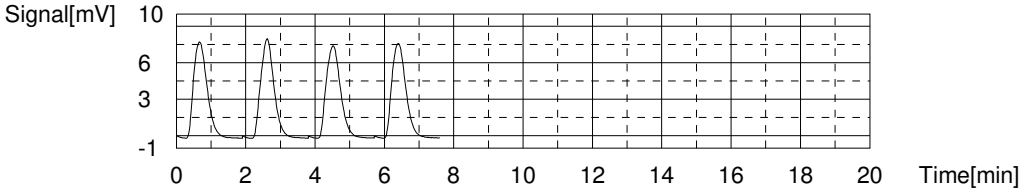
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.311mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	21.38	6.217mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 3:43:31 PM
2	21.80	6.351mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 3:48:08 PM
3	21.76	6.338mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 3:52:45 PM
4	21.76	6.338mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 3:57:22 PM

Mean Area 21.68
Mean Conc. 6.311mg/L



Sample

Sample Name: 280-137797-D-2-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

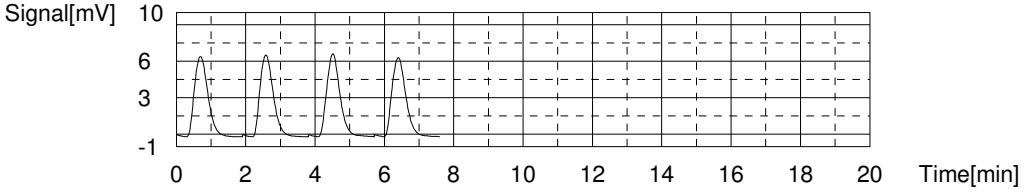
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.114mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.90	5.112mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 4:05:58 PM
2	17.84	5.093mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 4:10:35 PM
3	17.97	5.135mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 4:15:12 PM
4	17.91	5.115mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 4:19:49 PM

Mean Area 17.91
Mean Conc. 5.114mg/L



Sample

Sample Name: 280-137686-D-2-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

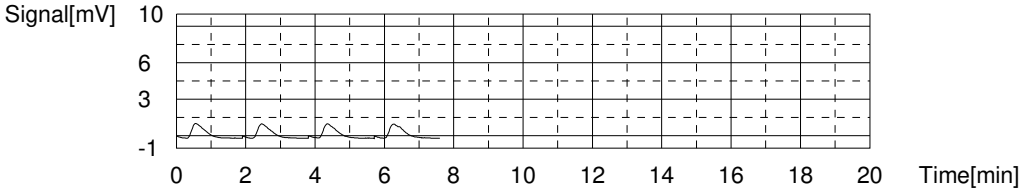
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3971mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.039	0.3937mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 4:28:25 PM
2	3.077	0.4058mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 4:33:02 PM
3	2.967	0.3708mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 4:37:39 PM
4	3.116	0.4181mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 4:42:16 PM

Mean Area 3.050
Mean Conc. 0.3971mg/L



Sample

Sample Name: ccv
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

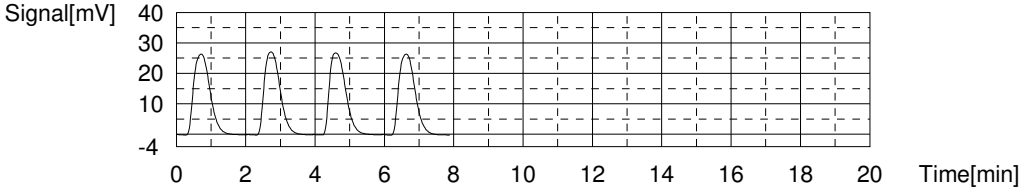
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.10mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	87.14	27.10mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 4:51:00 PM
2	87.13	27.09mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 4:55:37 PM
3	87.39	27.18mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 5:00:19 PM
4	87.00	27.05mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 5:05:00 PM

Mean Area 87.17
Mean Conc. 27.10mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

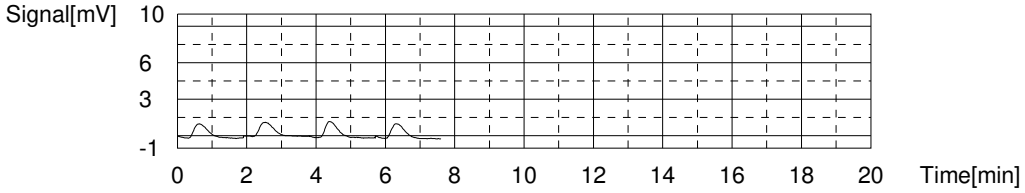
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4236mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.083	0.4077mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 5:13:36 PM
2	3.146	0.4277mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 5:18:32 PM
3	3.195	0.4432mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 5:23:09 PM
4	3.109	0.4159mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/3/2020 5:27:46 PM

Mean Area	3.133
Mean Conc.	0.4236mg/L



	Analysis	Sample Name	Origin	Result	Notes	Status	Date / Time	Vial
1*	NPOC	icv	NPOC.	✓		Defined		1
2*	NPOC	icb	NPOC.	✓		Defined		2
3*	NPOC	LCS 280-501228/1-A	NPOC.	✓		Defined		3
4*	NPOC	LCSD 280-501228/2-A	NPOC.	✓		Defined		4
5*	NPOC	MB 280-501228/3-A	NPOC.	✓		Defined		5
6*	NPOC	tic	NPOC.	✓		Defined		6
7*	NPOC	200-53950-B-1-H	NPOC.	6		Defined		7
8*	NPOC	200-53950-B-1-I MS	NPOC.	6		Defined		8
9*	NPOC	200-53950-B-1-J MSD	NPOC.	6		Defined		9
10*	NPOC	200-53950-A-2-B	NPOC.	6		Defined		10
11*	NPOC	200-53950-A-3-A	NPOC.	6		Defined		11
12*	NPOC	200-53950-A-4-B	NPOC.	6		Defined		12
13*	NPOC	200-53950-B-20-B	NPOC.	5		Defined		13
14*	NPOC	200-53950-A-21-D	NPOC.	6		Defined		14
15*	NPOC	ccv	NPOC.	✓		Defined		15
16*	NPOC	ccb	NPOC.	✓		Defined		16
17*	NPOC	200-53950-A-21-E MS	NPOC.	6		Defined		17
18*	NPOC	200-53950-A-21-F MSD	NPOC.	6		Defined		18
19*	NPOC	200-53965-B-5-F	NPOC.	5		Defined		19
20*	NPOC	200-53965-B-5-G MS	NPOC.	5		Defined		20
21*	NPOC	200-53965-B-5-H MSD	NPOC.	5		Defined		21
22*	NPOC	200-53965-B-4-C	NPOC.	6		Defined		22
23*	NPOC	280-137736-D-3-B	NPOC.	7		Defined		23
24*	NPOC	280-137736-D-4-B	NPOC.	7		Defined		24
25*	NPOC	280-137736-D-5-B	NPOC.	7		Defined		25
26*	NPOC	280-137736-D-6-B	NPOC.	7		Defined		26
27*	NPOC	ccv	NPOC.	✓		Defined		27
28*	NPOC	ccb	NPOC.	✓		Defined		28
29*	NPOC	280-137736-D-7-B	NPOC.	7		Defined		29
30*	NPOC	280-137736-D-8-B	NPOC.	7		Defined		30
31*	NPOC	280-137736-D-9-E	NPOC.	7		Defined		31
32*	NPOC	280-137736-D-9-F MS	NPOC.	7		Defined		32
33*	NPOC	280-137736-D-9-G MSD	NPOC.	7		Defined		33
34*	NPOC	280-137736-D-10-B	NPOC.	7		Defined		34
35*	NPOC	280-137736-D-11-B	NPOC.	7		Defined		35
36*	NPOC	280-137736-D-12-B	NPOC.	7		Defined		36
37*	NPOC	280-137736-D-13-D	NPOC.	7		Defined		37
38*	NPOC	280-137736-D-14-B	NPOC.	7		Defined		38
39*	NPOC	ccv	NPOC.	✓		Defined		39
40*	NPOC	ccb	NPOC.	✓		Defined		40

	Analysis	Sample Name	Origin	Result	Notes	Status	Date / Time	Vial
1	NPOC	icv	NPOC.	NPOC:21.47m		Completed	7/6/2020 6:09:05 PM	1
2	NPOC	icb	NPOC.	NPOC:0.04006		Completed	7/6/2020 6:40:44 PM	2
3	NPOC	LCS 280-501228/1-A	NPOC.	NPOC:25.46m		Completed	7/6/2020 7:03:44 PM	3
4	NPOC	LCSD 280-501228/2-A	NPOC.	NPOC:26.42m		Completed	7/6/2020 7:26:36 PM	4
5	NPOC	MB 280-501228/3-A	NPOC.	NPOC:-0.0683		Completed	7/6/2020 7:58:15 PM	5
6	NPOC	tic	NPOC.	NPOC:0.1338		Completed	7/6/2020 8:29:54 PM	6
7	NPOC	200-53950-B-1-H	NPOC.	NPOC:6.529m		Completed	7/6/2020 8:52:19 PM	7
8	NPOC	200-53950-B-1-I MS	NPOC.	NPOC:32.89m		Completed	7/6/2020 9:15:18 PM	8
9	NPOC	200-53950-B-1-J MSD	NPOC.	NPOC:32.89m		Completed	7/6/2020 9:38:13 PM	9
10	NPOC	200-53950-A-2-B	NPOC.	NPOC:6.416m		Completed	7/6/2020 10:00:38 PM	10
11	NPOC	200-53950-A-3-A	NPOC.	NPOC:6.184m		Completed	7/6/2020 10:23:03 PM	11
12	NPOC	200-53950-A-4-B	NPOC.	NPOC:6.201m		Completed	7/6/2020 10:50:05 PM	12
13	NPOC	200-53950-B-20-B	NPOC.	NPOC:5.554m		Completed	7/6/2020 11:12:30 PM	13
14	NPOC	200-53950-A-21-D	NPOC.	NPOC:6.236m		Completed	7/6/2020 11:34:55 PM	14
15	NPOC	ccv	NPOC.	NPOC:26.65m		Completed	7/6/2020 11:57:59 PM	15
16	NPOC	ccb	NPOC.	NPOC:-0.2557		Completed	7/7/2020 12:29:38 AM	16
17	NPOC	200-53950-A-21-E MS	NPOC.	NPOC:33.47m		Completed	7/7/2020 12:52:38 AM	17
18	NPOC	200-53950-A-21-F MSD	NPOC.	NPOC:33.50m		Completed	7/7/2020 1:15:42 AM	18
19	NPOC	200-53965-B-5-F	NPOC.	NPOC:8.535m		Completed	7/7/2020 1:38:07 AM	19
20	NPOC	200-53965-B-5-G MS	NPOC.	NPOC:35.17m		Completed	7/7/2020 2:01:12 AM	20
21	NPOC	200-53965-B-5-H MSD	NPOC.	NPOC:35.28m		Completed	7/7/2020 2:24:15 AM	21
22	NPOC	200-53965-B-4-C	NPOC.	NPOC:8.246m		Completed	7/7/2020 2:46:40 AM	22
23	NPOC	280-137736-D-3-B	NPOC.	NPOC:3.786m		Completed	7/7/2020 3:09:05 AM	23
24	NPOC	280-137736-D-4-B	NPOC.	NPOC:5.644m		Completed	7/7/2020 3:31:35 AM	24
25	NPOC	280-137736-D-5-B	NPOC.	NPOC:7.002m		Completed	7/7/2020 3:54:00 AM	25
26	NPOC	280-137736-D-6-B	NPOC.	NPOC:4.445m		Completed	7/7/2020 4:16:25 AM	26
27	NPOC	ccv	NPOC.	NPOC:27.10m		Completed	7/7/2020 4:39:31 AM	27
28	NPOC	ccb	NPOC.	NPOC:-0.2558		Completed	7/7/2020 5:11:10 AM	28
29	NPOC	280-137736-D-7-B	NPOC.	NPOC:4.236m		Completed	7/7/2020 5:33:35 AM	29
30	NPOC	280-137736-D-8-B	NPOC.	NPOC:2.948m		Completed	7/7/2020 5:56:00 AM	30
31	NPOC	280-137736-D-9-E	NPOC.	NPOC:2.018m		Completed	7/7/2020 6:18:25 AM	31
32	NPOC	280-137736-D-9-F MS	NPOC.	NPOC:28.73m		Completed	7/7/2020 6:41:46 AM	32
33	NPOC	280-137736-D-9-G MSD	NPOC.	NPOC:28.81m		Completed	7/7/2020 7:04:39 AM	33
34	NPOC	280-137736-D-10-B	NPOC.	NPOC:6.381m		Completed	7/7/2020 7:27:05 AM	34
35	NPOC	280-137736-D-11-B	NPOC.	NPOC:2.917m		Completed	7/7/2020 7:49:31 AM	35
36	NPOC	280-137736-D-12-B	NPOC.	NPOC:2.531m		Completed	7/7/2020 8:11:57 AM	36
37	NPOC	280-137736-D-13-D	NPOC.	NPOC:5.820m		Completed	7/7/2020 8:34:23 AM	37
38	NPOC	280-137736-D-14-B	NPOC.	NPOC:3.603m		Completed	7/7/2020 8:56:49 AM	38
39	NPOC	ccv	NPOC.	NPOC:26.76m		Completed	7/7/2020 9:20:02 AM	39
40	NPOC	ccb	NPOC.	NPOC:-0.3344		Completed	7/7/2020 9:51:45 AM	40

TOC-V Cal Curve Information
C:¥TOC3201¥CalCurves¥NPOC.2020_06_15_14_56_20.cal

Date of Creation 4:11:58 PM 6/15/2020
User sgb
System TOC-V CPN

Cal. Curve

Sample Name: cal
Sample ID:
Object ID 0A-100612-04635090-1343CA723828-0000
Cal. Curve: NPOC.2020_06_15_14_56_20.cal
Status Completed
Comment:

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.6345	50uL	1	*******	E	6/15/2020 3:05:05 PM
2	2.558	50uL	1	*******		6/15/2020 3:07:11 PM
3	2.840	50uL	1	*******	E	6/15/2020 3:09:22 PM
4	2.342	50uL	1	*******		6/15/2020 3:11:28 PM

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 2.450
SD Area 0.1527
CV Area 6.23%
Vial 1

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	5.629	50uL	1	*******	E	6/15/2020 3:19:57 PM
2	6.139	50uL	1	*******		6/15/2020 3:22:03 PM
3	4.772	50uL	1	*******	E	6/15/2020 3:24:09 PM
4	6.011	50uL	1	*******		6/15/2020 3:26:14 PM

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 6.075
SD Area 0.09051
CV Area 1.49%
Vial 2

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	17.91	50uL	1	*******	E	6/15/2020 3:34:55 PM
2	16.89	50uL	1	*******		6/15/2020 3:37:01 PM
3	16.43	50uL	1	*******		6/15/2020 3:39:07 PM

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 16.66
SD Area 0.3253
CV Area 1.95%
Vial 3

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	33.12	50uL	1	*******		6/15/2020 3:47:50 PM
2	32.65	50uL	1	*******		6/15/2020 3:49:56 PM

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 32.89
SD Area 0.3323
CV Area 1.01%
Vial 4

Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	79.57	50uL	1	*******		6/15/2020 3:58:49 PM
2	78.98	50uL	1	*******		6/15/2020 4:00:59 PM

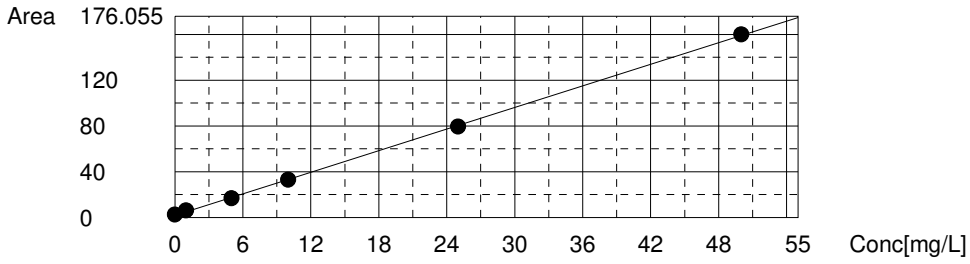
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 79.28
SD Area 0.4172
CV Area 0.53%
Vial 5

Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	159.6	50uL	1	*******		6/15/2020 4:09:45 PM
2	160.5	50uL	1	*******		6/15/2020 4:11:58 PM

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 160.1
SD Area 0.6364
CV Area 0.40%
Vial 6

Slope: 3.149
Intercept 1.799
r^2 0.9997
r 0.9999
Zero Shift No



Instr.Information

System	TOC-V CPN
Instrument Options	TOC/ASI/
Catalyst	Regular Sensitivity

Sample

Sample Name:	icv
Sample ID:	
Origin:	NPOC.met
Status	Completed
Chk. Result	

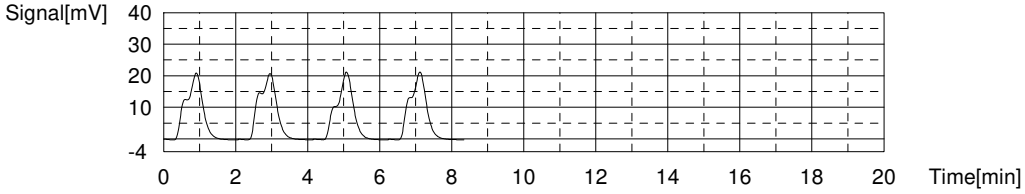
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:21.47mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	69.22	21.41mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 5:54:40 PM
2	71.31	22.07mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 5:59:28 PM
3	68.18	21.08mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 6:04:16 PM
4	68.93	21.32mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 6:09:05 PM

Mean Area 69.41
Mean Conc. 21.47mg/L



Sample

Sample Name:	icb
Sample ID:	
Origin:	NPOC.met
Status	Completed
Chk. Result	

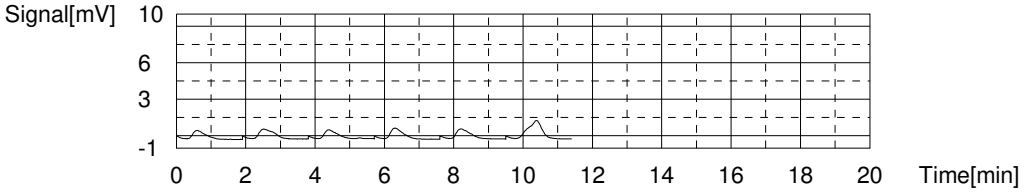
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.04006mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.732	-0.02130mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 6:17:39 PM
2	2.323	0.1664mg/L	50uL	1	E	NPOC.2020_06_15_14_56_20.cal	7/6/2020 6:22:16 PM
3	1.764	-0.01113mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 6:26:53 PM
4	2.113	0.09968mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 6:31:30 PM
5	2.092	0.09301mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 6:36:07 PM
6	4.141	0.7436mg/L	50uL	1	E	NPOC.2020_06_15_14_56_20.cal	7/6/2020 6:40:44 PM

Mean Area 1.925
Mean Conc. 0.04006mg/L



Sample

Sample Name: LCS 280-501228/1-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

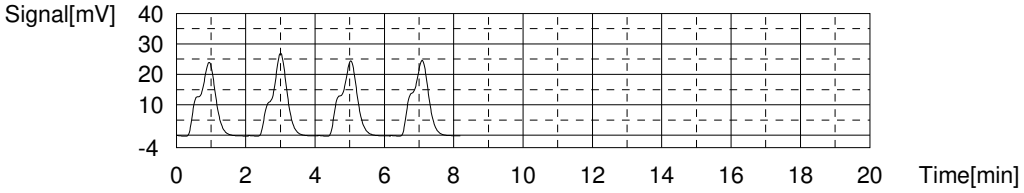
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.46mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	81.21	25.21mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 6:49:28 PM
2	82.57	25.65mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 6:54:12 PM
3	82.33	25.57mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 6:59:00 PM
4	81.87	25.42mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 7:03:44 PM

Mean Area 82.00
Mean Conc. 25.46mg/L



Sample

Sample Name: LCSD 280-501228/2-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

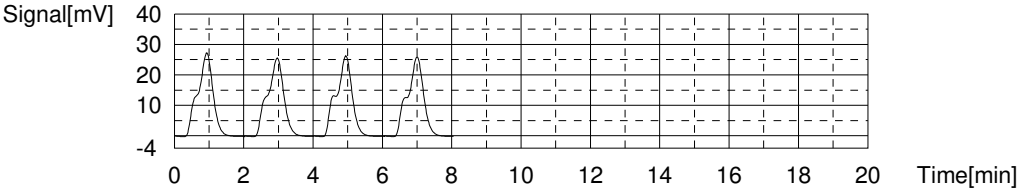
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.42mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	85.18	26.47mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 7:12:25 PM
2	84.76	26.34mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 7:17:07 PM
3	85.23	26.49mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 7:21:53 PM
4	84.89	26.38mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 7:26:36 PM

Mean Area 85.02
Mean Conc. 26.42mg/L



Sample

Sample Name: MB 280-501228/3-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

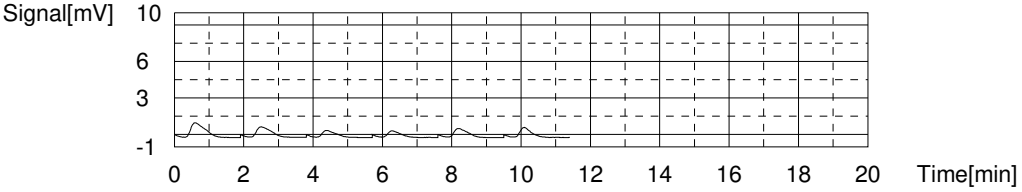
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.06837mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.315	0.4813mg/L	50uL	1	E	NPOC.2020_06_15_14_56_20.cal	7/6/2020 7:35:10 PM
2	2.408	0.1933mg/L	50uL	1	E	NPOC.2020_06_15_14_56_20.cal	7/6/2020 7:39:47 PM
3	1.436	-0.1153mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 7:44:24 PM
4	1.264	-0.1699mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 7:49:01 PM
5	1.890	0.02887mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 7:53:38 PM
6	1.745	-0.01717mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 7:58:15 PM

Mean Area 1.584
Mean Conc. -0.06837mg/L



Sample

Sample Name: tic
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

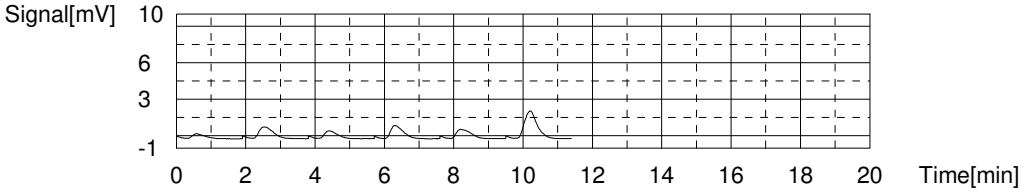
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1338mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8448	-0.3030mg/L	50uL	1	E	NPOC.2020_06_15_14_56_20.cal	7/6/2020 8:06:49 PM
2	2.569	0.2445mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 8:11:26 PM
3	1.548	-0.07972mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 8:16:03 PM
4	2.631	0.2642mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 8:20:40 PM
5	2.134	0.1063mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 8:25:17 PM
6	5.741	1.252mg/L	50uL	1	E	NPOC.2020_06_15_14_56_20.cal	7/6/2020 8:29:54 PM

Mean Area 2.220
Mean Conc. 0.1338mg/L



Sample

Sample Name: 200-53950-B-1-H
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

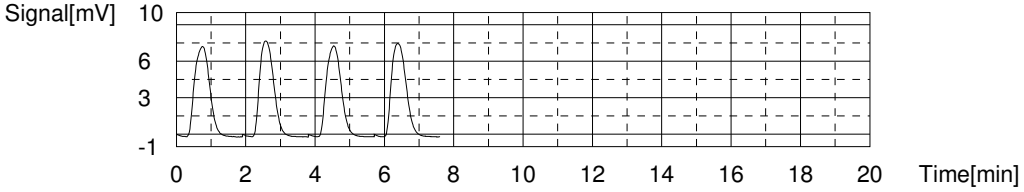
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.529mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	22.46	6.560mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 8:38:28 PM
2	22.16	6.465mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 8:43:05 PM
3	22.26	6.497mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 8:47:42 PM
4	22.57	6.595mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 8:52:19 PM

Mean Area 22.36
Mean Conc. 6.529mg/L



Sample

Sample Name: 200-53950-B-1-I MS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

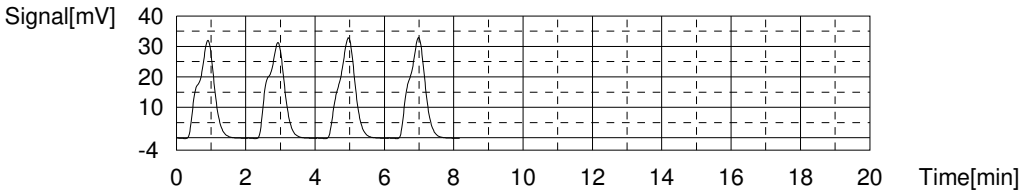
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:32.89mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	103.8	32.39mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 9:01:01 PM
2	105.4	32.89mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 9:05:44 PM
3	106.5	33.24mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 9:10:31 PM
4	105.9	33.05mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 9:15:18 PM

Mean Area 105.4
Mean Conc. 32.89mg/L



Sample

Sample Name: 200-53950-B-1-J MSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

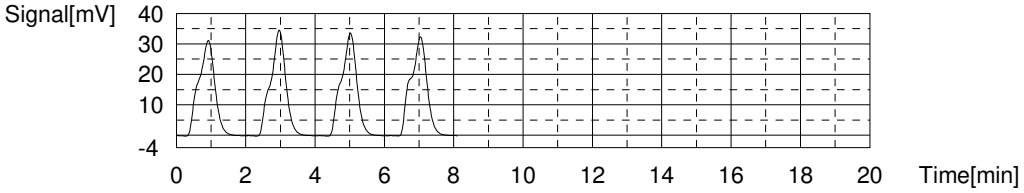
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:32.89mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	102.7	32.04mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 9:24:01 PM
2	106.7	33.31mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 9:28:47 PM
3	106.0	33.09mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 9:33:32 PM
4	106.1	33.12mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 9:38:13 PM

Mean Area 105.4
Mean Conc. 32.89mg/L



Sample

Sample Name: 200-53950-A-2-B
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

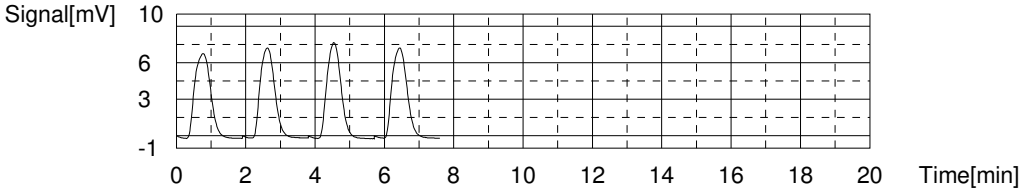
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.416mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	22.28	6.503mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 9:46:47 PM
2	21.43	6.233mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 9:51:24 PM
3	22.25	6.493mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 9:56:01 PM
4	22.07	6.436mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 10:00:38 PM

Mean Area 22.01
Mean Conc. 6.416mg/L



Sample

Sample Name: 200-53950-A-3-A
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

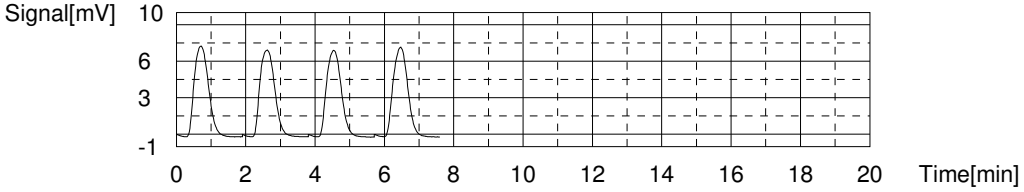
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.184mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	21.45	6.239mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 10:09:12 PM
2	21.08	6.122mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 10:13:49 PM
3	21.02	6.103mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 10:18:26 PM
4	21.55	6.271mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 10:23:03 PM

Mean Area 21.27
Mean Conc. 6.184mg/L



Sample

Sample Name: 200-53950-A-4-B
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

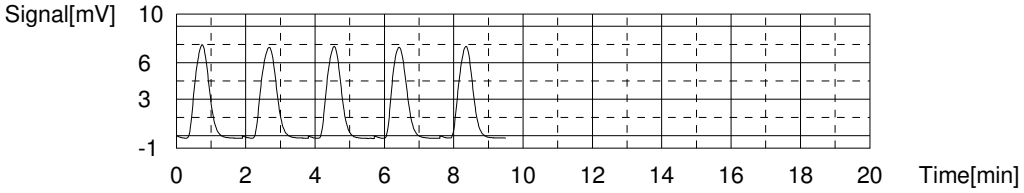
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.201mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	21.60	6.287mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 10:31:37 PM
2	22.55	6.589mg/L	50uL	1	E	NPOC.2020_06_15_14_56_20.cal	7/6/2020 10:36:14 PM
3	21.31	6.195mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 10:40:51 PM
4	21.45	6.239mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 10:45:28 PM
5	20.96	6.084mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 10:50:05 PM

Mean Area 21.33
Mean Conc. 6.201mg/L



Sample

Sample Name: 200-53950-B-20-B
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

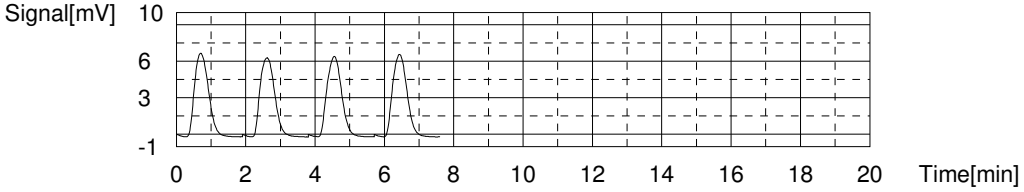
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.554mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	19.37	5.579mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 10:58:39 PM
2	18.91	5.433mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 11:03:16 PM
3	19.30	5.557mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 11:07:53 PM
4	19.58	5.646mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 11:12:30 PM

Mean Area 19.29
Mean Conc. 5.554mg/L



Sample

Sample Name: 200-53950-A-21-D
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

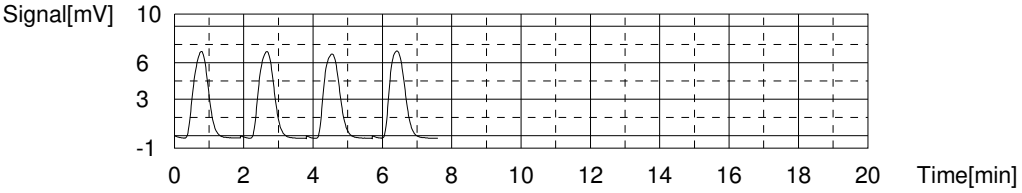
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.236mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.96	6.084mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 11:21:04 PM
2	21.56	6.274mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 11:25:41 PM
3	21.64	6.300mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 11:30:18 PM
4	21.60	6.287mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 11:34:55 PM

Mean Area 21.44
Mean Conc. 6.236mg/L



Sample

Sample Name: ccv
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

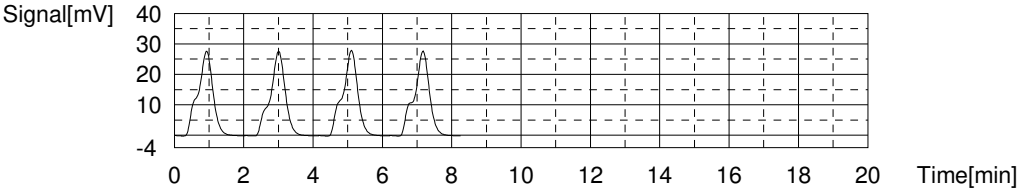
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.65mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	85.36	26.53mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 11:43:37 PM
2	84.85	26.37mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 11:48:27 PM
3	86.39	26.86mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 11:53:13 PM
4	86.32	26.84mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/6/2020 11:57:59 PM

Mean Area 85.73
Mean Conc. 26.65mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

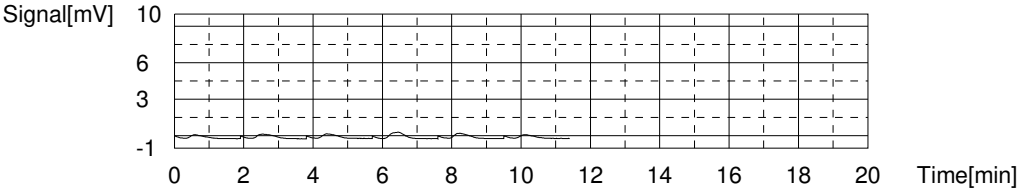
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.2557mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7313	-0.3390mg/L	50uL	1	E	NPOC.2020_06_15_14_56_20.cal	7/7/2020 12:06:33 AM
2	1.114	-0.2175mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 12:11:10 AM
3	0.9825	-0.2593mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 12:15:47 AM
4	1.458	-0.1083mg/L	50uL	1	E	NPOC.2020_06_15_14_56_20.cal	7/7/2020 12:20:24 AM
5	1.124	-0.2143mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 12:25:01 AM
6	0.7551	-0.3315mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 12:29:38 AM

Mean Area 0.9939
Mean Conc. -0.2557mg/L



Sample

Sample Name: 200-53950-A-21-E MS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

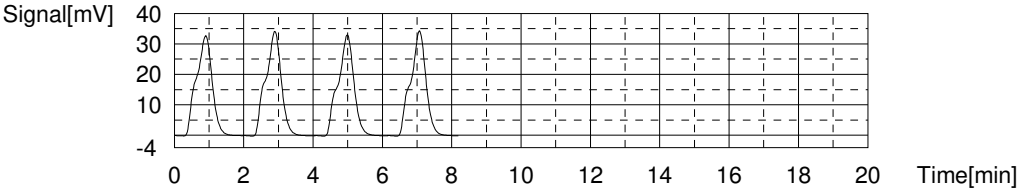
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:33.47mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	106.1	33.12mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 12:38:17 AM
2	108.5	33.88mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 12:43:04 AM
3	106.9	33.37mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 12:47:53 AM
4	107.4	33.53mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 12:52:38 AM

Mean Area 107.2
Mean Conc. 33.47mg/L



Sample

Sample Name: 200-53950-A-21-F MSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

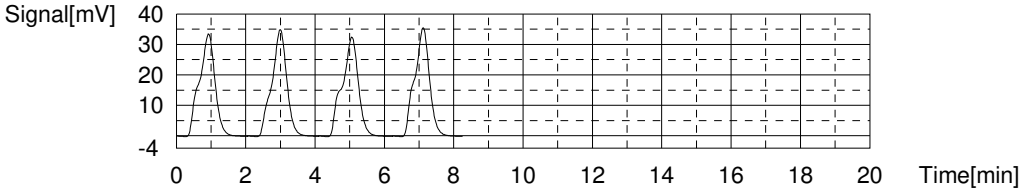
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:33.50mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	107.3	33.50mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 1:01:21 AM
2	106.7	33.31mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 1:06:07 AM
3	107.1	33.43mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 1:10:58 AM
4	108.1	33.75mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 1:15:42 AM

Mean Area 107.3
Mean Conc. 33.50mg/L



Sample

Sample Name: 200-53965-B-5-F
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

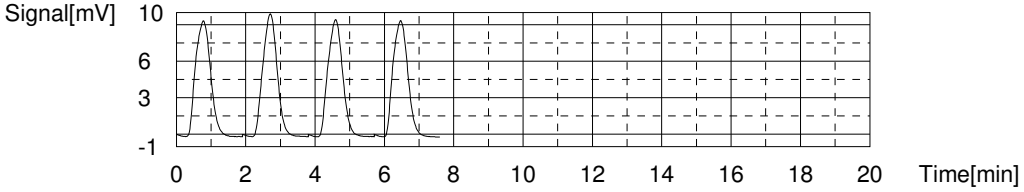
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.535mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	28.88	8.599mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 1:24:16 AM
2	28.95	8.621mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 1:28:53 AM
3	28.46	8.465mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 1:33:30 AM
4	28.43	8.456mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 1:38:07 AM

Mean Area 28.68
Mean Conc. 8.535mg/L



Sample

Sample Name: 200-53965-B-5-G MS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

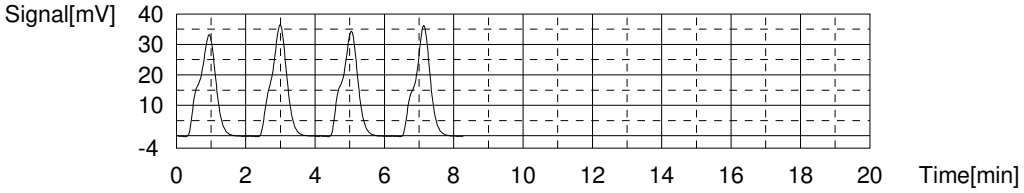
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:35.17mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	112.0	34.99mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 1:46:51 AM
2	114.1	35.66mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 1:51:37 AM
3	111.3	34.77mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 1:56:24 AM
4	112.8	35.24mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 2:01:12 AM

Mean Area 112.6
Mean Conc. 35.17mg/L



Sample

Sample Name: 200-53965-B-5-H MSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

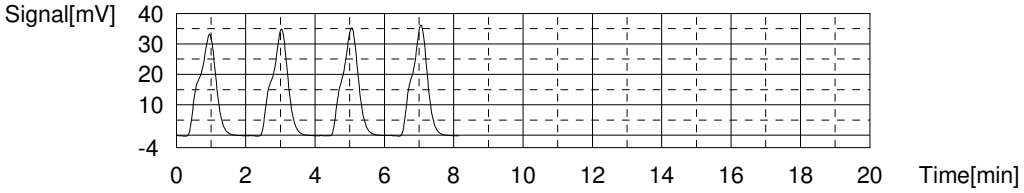
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:35.28mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	113.2	35.37mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 2:09:58 AM
2	112.5	35.15mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 2:14:43 AM
3	113.3	35.40mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 2:19:31 AM
4	112.6	35.18mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 2:24:15 AM

Mean Area 112.9
Mean Conc. 35.28mg/L



Sample

Sample Name: 200-53965-B-4-C
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

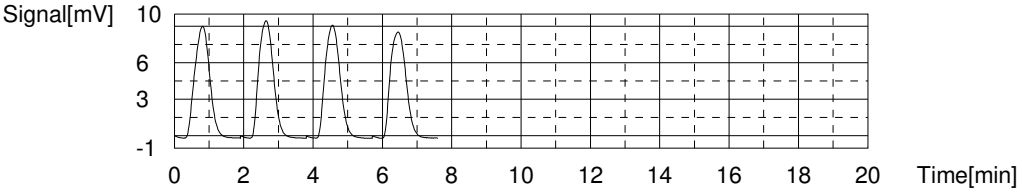
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.246mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	27.62	8.199mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 2:32:49 AM
2	28.24	8.395mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 2:37:26 AM
3	27.83	8.265mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 2:42:03 AM
4	27.39	8.126mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 2:46:40 AM

Mean Area 27.77
Mean Conc. 8.246mg/L



Sample

Sample Name: 280-137736-D-3-B
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

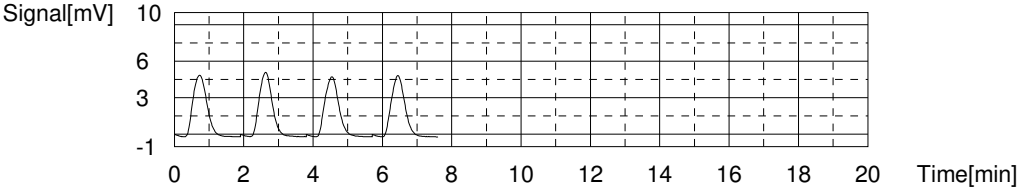
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.786mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.10	3.906mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 2:55:14 AM
2	13.74	3.791mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 2:59:51 AM
3	13.56	3.734mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 3:04:28 AM
4	13.49	3.712mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 3:09:05 AM

Mean Area 13.72
Mean Conc. 3.786mg/L



Sample

Sample Name: 280-137736-D-4-B
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

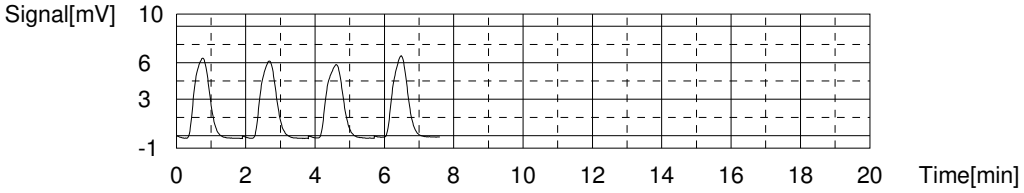
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.644mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	19.63	5.662mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 3:17:39 AM
2	19.52	5.627mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 3:22:16 AM
3	19.54	5.633mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 3:26:53 AM
4	19.61	5.655mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 3:31:35 AM

Mean Area 19.58
Mean Conc. 5.644mg/L



Sample

Sample Name: 280-137736-D-5-B
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

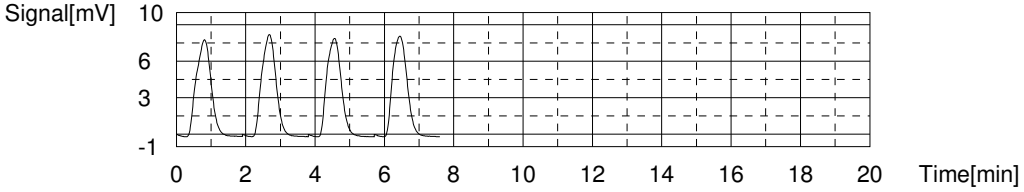
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.002mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	23.87	7.008mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 3:40:09 AM
2	24.03	7.059mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 3:44:46 AM
3	23.55	6.906mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 3:49:23 AM
4	23.95	7.033mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 3:54:00 AM

Mean Area 23.85
Mean Conc. 7.002mg/L



Sample

Sample Name: 280-137736-D-6-B
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

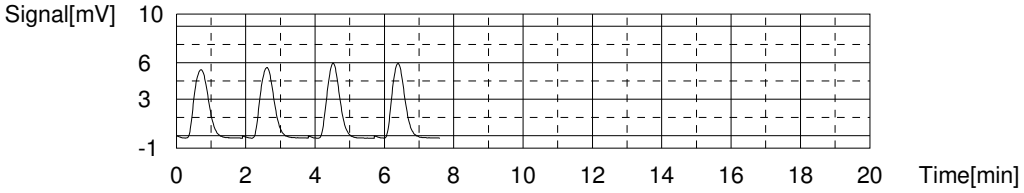
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.445mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	15.95	4.493mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 4:02:34 AM
2	15.87	4.468mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 4:07:11 AM
3	15.70	4.414mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 4:11:48 AM
4	15.67	4.404mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 4:16:25 AM

Mean Area 15.80
Mean Conc. 4.445mg/L



Sample

Sample Name: ccv
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

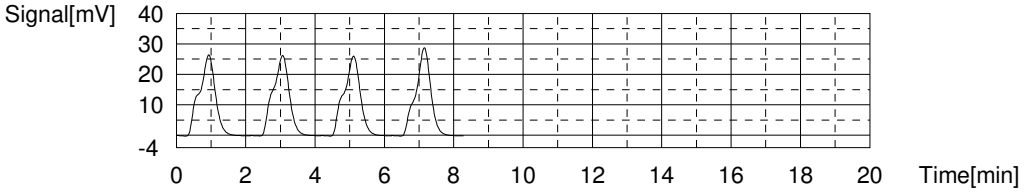
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.10mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	86.72	26.96mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 4:25:13 AM
2	86.93	27.03mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 4:29:58 AM
3	86.96	27.04mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 4:34:43 AM
4	87.96	27.36mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 4:39:31 AM

Mean Area 87.14
Mean Conc. 27.10mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

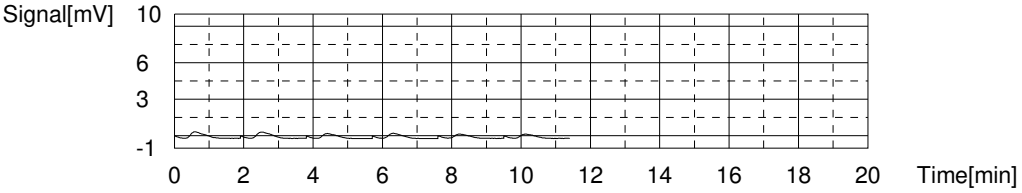
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.2558mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.446	-0.1121mg/L	50uL	1	E	NPOC.2020_06_15_14_56_20.cal	7/7/2020 4:48:05 AM
2	1.401	-0.1264mg/L	50uL	1	E	NPOC.2020_06_15_14_56_20.cal	7/7/2020 4:52:42 AM
3	1.070	-0.2315mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 4:57:19 AM
4	1.097	-0.2229mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 5:01:56 AM
5	0.8782	-0.2924mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 5:06:33 AM
6	0.9291	-0.2762mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 5:11:10 AM

Mean Area 0.9936
Mean Conc. -0.2558mg/L



Sample

Sample Name: 280-137736-D-7-B
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

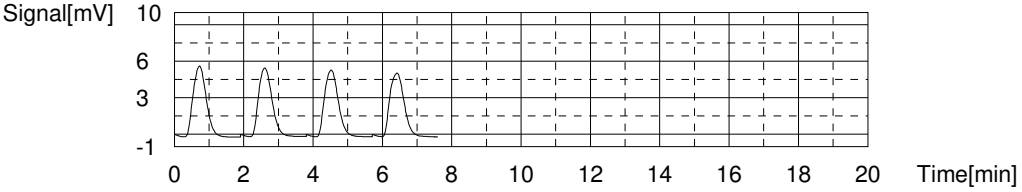
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.236mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	15.41	4.322mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 5:19:44 AM
2	15.19	4.252mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 5:24:21 AM
3	15.07	4.214mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 5:28:58 AM
4	14.89	4.157mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 5:33:35 AM

Mean Area 15.14
Mean Conc. 4.236mg/L



Sample

Sample Name: 280-137736-D-8-B
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

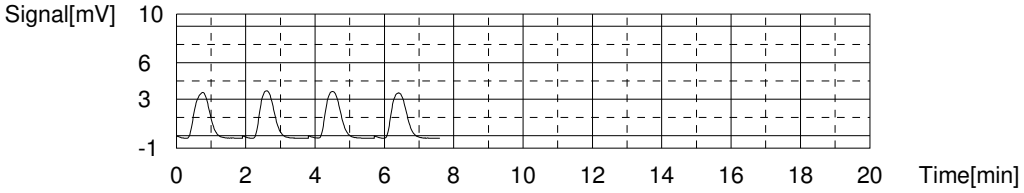
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.948mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.26	3.004mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 5:42:09 AM
2	10.89	2.887mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 5:46:46 AM
3	11.21	2.988mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 5:51:23 AM
4	10.98	2.915mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 5:56:00 AM

Mean Area 11.09
Mean Conc. 2.948mg/L



Sample

Sample Name: 280-137736-D-9-E
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

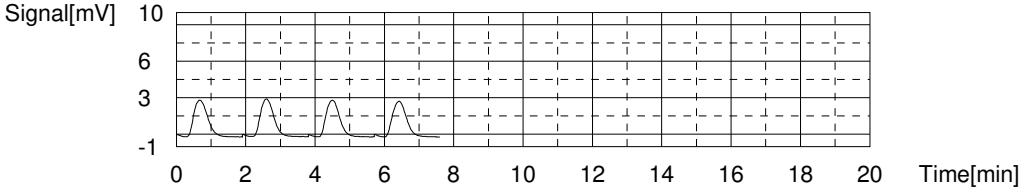
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.018mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.298	2.064mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 6:04:34 AM
2	8.187	2.028mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 6:09:11 AM
3	8.018	1.975mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 6:13:48 AM
4	8.112	2.004mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 6:18:25 AM

Mean Area 8.154
Mean Conc. 2.018mg/L



Sample

Sample Name: 280-137736-D-9-F MS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

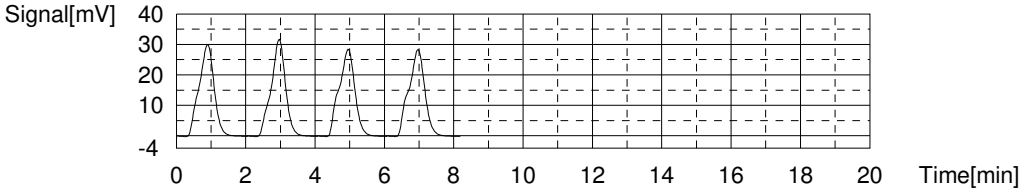
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.73mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	92.26	28.72mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 6:27:28 AM
2	92.98	28.95mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 6:32:12 AM
3	91.34	28.43mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 6:36:55 AM
4	92.53	28.81mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 6:41:46 AM

Mean Area 92.28
Mean Conc. 28.73mg/L



Sample

Sample Name: 280-137736-D-9-G MSD
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

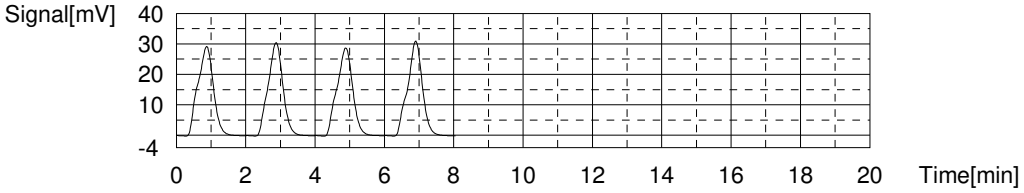
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.81mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	92.88	28.92mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 6:50:27 AM
2	92.07	28.66mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 6:55:09 AM
3	92.04	28.65mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 6:59:53 AM
4	93.17	29.01mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 7:04:39 AM

Mean Area 92.54
Mean Conc. 28.81mg/L



Sample

Sample Name: 280-137736-D-10-B
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

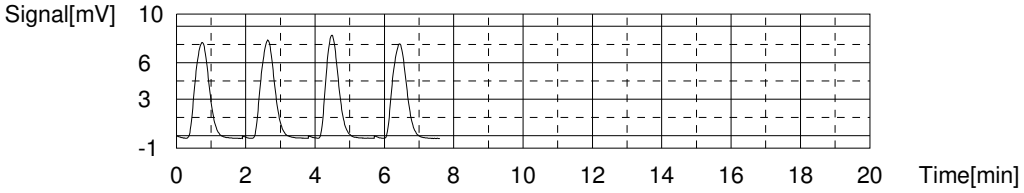
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.381mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	22.02	6.420mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 7:13:14 AM
2	22.28	6.503mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 7:17:51 AM
3	21.35	6.208mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 7:22:28 AM
4	21.93	6.392mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 7:27:05 AM

Mean Area 21.90
Mean Conc. 6.381mg/L



Sample

Sample Name: 280-137736-D-11-B
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

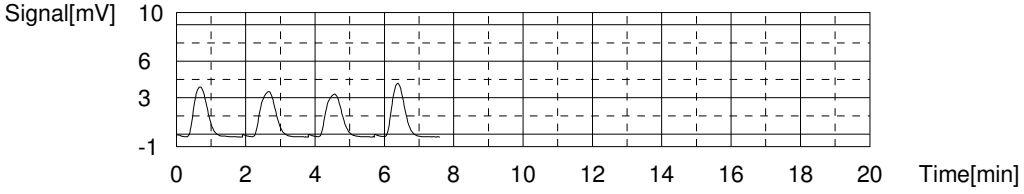
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.917mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.90	2.890mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 7:35:40 AM
2	11.22	2.991mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 7:40:17 AM
3	10.83	2.867mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 7:44:54 AM
4	11.00	2.921mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 7:49:31 AM

Mean Area 10.99
Mean Conc. 2.917mg/L



Sample

Sample Name: 280-137736-D-12-B
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

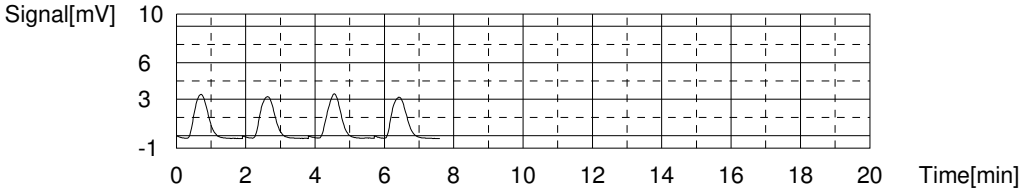
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.531mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.871	2.563mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 7:58:06 AM
2	9.749	2.524mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 8:02:43 AM
3	9.653	2.494mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 8:07:20 AM
4	9.809	2.543mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 8:11:57 AM

Mean Area 9.771
Mean Conc. 2.531mg/L



Sample

Sample Name: 280-137736-D-13-D
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

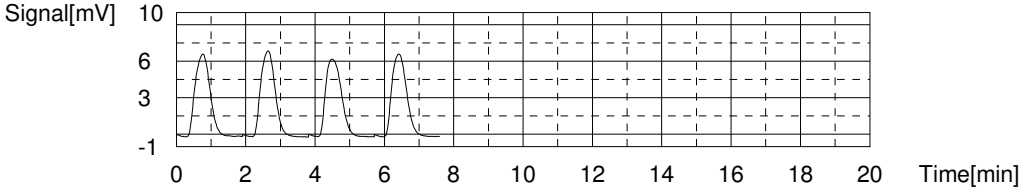
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.820mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.26	5.862mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 8:20:32 AM
2	20.23	5.852mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 8:25:09 AM
3	19.98	5.773mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 8:29:46 AM
4	20.05	5.795mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 8:34:23 AM

Mean Area 20.13
Mean Conc. 5.820mg/L



Sample

Sample Name: 280-137736-D-14-B
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

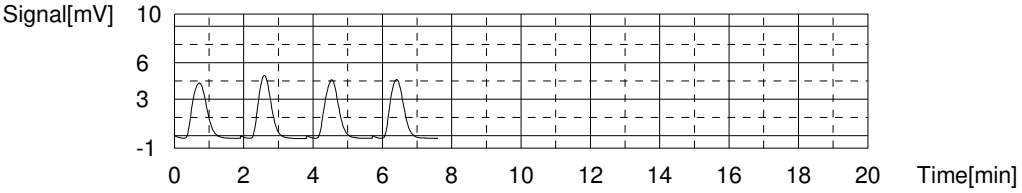
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.603mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.12	3.595mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 8:42:58 AM
2	13.25	3.636mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 8:47:35 AM
3	13.26	3.639mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 8:52:12 AM
4	12.96	3.544mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 8:56:49 AM

Mean Area 13.15
Mean Conc. 3.603mg/L



Sample

Sample Name: ccv
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

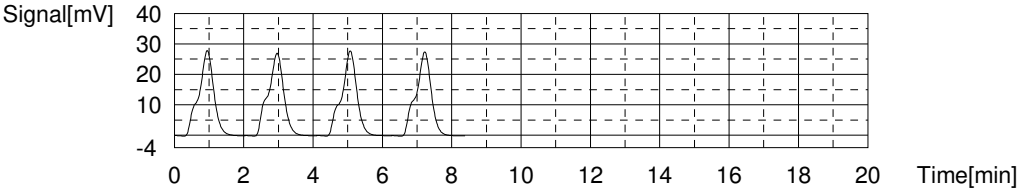
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.76mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	85.64	26.62mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 9:05:32 AM
2	86.44	26.87mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 9:10:19 AM
3	86.11	26.77mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 9:15:12 AM
4	86.08	26.76mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 9:20:02 AM

Mean Area 86.07
Mean Conc. 26.76mg/L



Sample

Sample Name: ccb
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

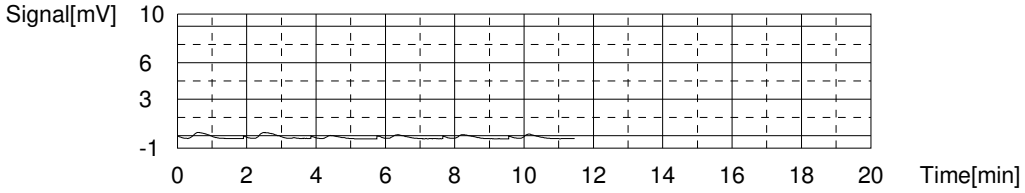
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.3344mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.411	-0.1232mg/L	50uL	1	E	NPOC.2020_06_15_14_56_20.cal	7/7/2020 9:28:37 AM
2	1.444	-0.1127mg/L	50uL	1	E	NPOC.2020_06_15_14_56_20.cal	7/7/2020 9:33:17 AM
3	0.6271	-0.3721mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 9:37:54 AM
4	0.7217	-0.3421mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 9:42:31 AM
5	0.8360	-0.3058mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 9:47:08 AM
6	0.7988	-0.3176mg/L	50uL	1		NPOC.2020_06_15_14_56_20.cal	7/7/2020 9:51:45 AM

Mean Area	0.7459
Mean Conc.	-0.3344mg/L



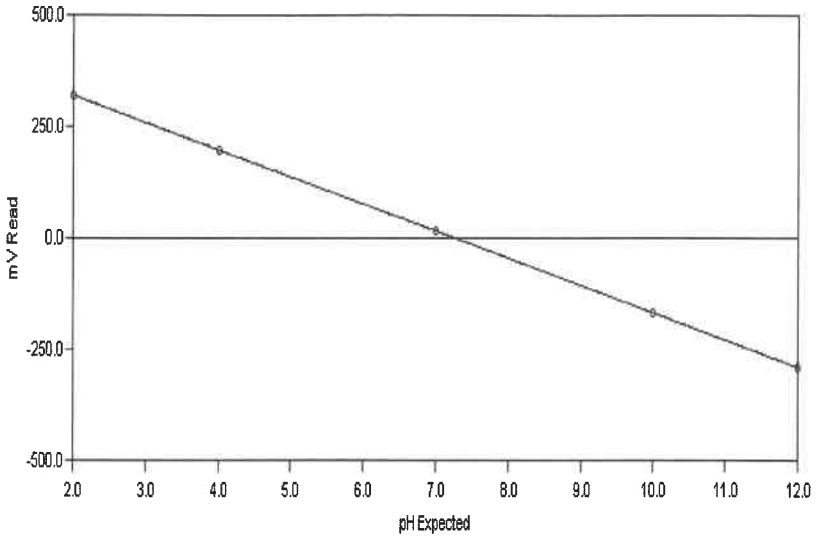
MANTECH

MANTECH INC.

Calibration Report

Report Date: 6/18/2020 : 10:36 AM

Calibration Record # 138



Calibration Settings

Calibration ID	PH	Date	6/18/2020	
Channel	1	Time	10:30 AM	
Probe Type	pH	Temperature	294.39 K	21.24 C
Probe ID	PH ELECTRODE	Analysis Type	Single Line Fit	

Calibration Results

Slope	-61.079	CorrCoeff	1.0000
Intercept	14.820	Equation:	Y = (-61.079) X + (14.820)

Calibration Validity **True** Operator

	Result	Minimum	Maximum
Slope	-61.079	-65.00	-53.00
Intercept	14.820	-100.00	100.00
Correlation Coefficient	1.0000	0.99	1.00

Note: "True" means the calibration was within the specified ranges
"False" means the calibration was NOT within the specified ranges

Calibration Data	Standard	Reading
	2.00	319.58
	4.00	198.36
	7.00	15.38
	10.00	-167.84
	12.00	-291.38

Test America

Water Analysis Report

AT4 Analyst:_____

Run Number 436 **Order Number** 20200618-2

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	(mL) @ 8.3	(mL) @ 4.5	(mL) @ 4.2	Conc (N)
RINSE	6/18/2020	12:10 PM	21.02	-1.00	5.22	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
INITIAL CHECK	6/18/2020	12:16 PM	20.89	-1.00	10.63	97.67	183.71	.00	172.09	11.63	.98	1.84	-1.00	.02
BUFFER 7	6/18/2020	12:19 PM	20.94	-1.00	6.99	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
LCS	6/18/2020	12:25 PM	20.88	-1.00	10.62	97.08	186.06	.00	177.96	8.10	.97	1.86	-1.00	.02
LCSD	6/18/2020	12:31 PM	20.99	-1.00	10.63	99.66	187.95	.00	176.58	11.38	1.00	1.88	-1.00	.02
MB	6/18/2020	12:37 PM	21.19	-1.00	6.86	.00	.53	.53	.00	.00	.00	.02	.03	.02
280-137750-c-1	6/18/2020	12:43 PM	21.11	-1.00	8.23	.00	166.66	166.66	.00	.00	.00	1.67	-1.00	.02
DU 280-137750-c-1	6/18/2020	12:49 PM	21.12	-1.00	8.23	.00	167.99	167.99	.00	.00	.00	1.68	-1.00	.02
280-137750-c-2	6/18/2020	12:55 PM	21.22	-1.00	8.27	.00	163.20	163.20	.00	.00	.00	1.63	-1.00	.02
280-137750-c-3	6/18/2020	1:01 PM	21.32	-1.00	8.30	.00	171.72	171.72	.00	.00	.00	1.72	-1.00	.02
280-137750-c-4	6/18/2020	1:06 PM	21.54	-1.00	8.42	6.09	169.03	156.84	12.19	.00	.06	1.69	-1.00	.02
280-137733-c-1	6/18/2020	1:13 PM	21.53	-1.00	7.48	.00	391.14	391.14	.00	.00	.00	3.91	-1.00	.02
280-137733-c-2	6/18/2020	1:19 PM	21.31	-1.00	7.02	.00	345.72	345.72	.00	.00	.00	3.46	-1.00	.02
280-137733-c-3	6/18/2020	1:25 PM	21.18	-1.00	6.85	.00	324.70	324.70	.00	.00	.00	3.25	-1.00	.02
280-137733-c-4	6/18/2020	1:31 PM	21.14	-1.00	7.10	.00	476.69	476.69	.00	.00	.00	4.77	-1.00	.02
280-137735-a-1	6/18/2020	1:37 PM	21.06	-1.00	7.73	.00	184.85	184.85	.00	.00	.00	1.85	-1.00	.02
CCV	6/18/2020	1:44 PM	20.94	-1.00	10.59	97.96	186.89	.00	177.87	9.02	.98	1.87	-1.00	.02
CCB	6/18/2020	1:49 PM	21.15	-1.00	6.90	.00	.52	.52	.00	.00	.00	.02	.04	.02
280-137735-a-2	6/18/2020	1:55 PM	21.12	-1.00	7.78	.00	175.56	175.56	.00	.00	.00	1.76	-1.00	.02
280-137735-a-3	6/18/2020	2:00 PM	21.14	-1.00	7.18	.00	107.94	107.94	.00	.00	.00	1.08	-1.00	.02
280-137735-a-4	6/18/2020	2:06 PM	21.18	-1.00	7.87	.00	113.04	113.04	.00	.00	.00	1.13	-1.00	.02
280-137735-a-5	6/18/2020	2:12 PM	21.37	-1.00	7.89	.00	185.14	185.14	.00	.00	.00	1.85	-1.00	.02
280-137735-a-6	6/18/2020	2:17 PM	21.64	-1.00	7.64	.00	108.98	108.98	.00	.00	.00	1.09	-1.00	.02
280-137735-a-7	6/18/2020	2:23 PM	21.43	-1.00	6.09	.00	.45	.45	.00	.00	.00	.02	.03	.02
280-137761-c-2	6/18/2020	2:29 PM	21.19	-1.00	7.34	.00	455.70	455.70	.00	.00	.00	4.56	-1.00	.02
280-137761-c-3	6/18/2020	2:35 PM	21.15	-1.00	7.55	.00	281.96	281.96	.00	.00	.00	2.82	-1.00	.02
280-137761-c-4	6/18/2020	2:42 PM	21.08	-1.00	7.33	.00	425.13	425.13	.00	.00	.00	4.25	-1.00	.02

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Run Number 436 **Order Number** 20200618-2

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	(mL) @ 8.3	(mL) @ 4.5	(mL) @ 4.2	Conc (N)
280-137761-c-5	6/18/2020	2:48 PM	21.09	-1.00	7.49	.00	401.60	401.60	.00	.00	.00	4.02	-1.00	.02
CCV	6/18/2020	2:55 PM	20.91	-1.00	10.57	98.55	189.88	.00	182.66	7.22	.99	1.90	-1.00	.02
CCB	6/18/2020	3:00 PM	21.12	-1.00	6.66	.00	.49	.49	.00	.00	.00	.02	.04	.02
LCS	6/18/2020	3:06 PM	20.99	-1.00	10.57	97.29	188.26	.00	181.94	6.32	.97	1.88	-1.00	.02
LCSD	6/18/2020	3:13 PM	21.14	-1.00	10.57	92.98	180.31	.00	174.66	5.65	.93	1.80	-1.00	.02
MB	6/18/2020	3:18 PM	21.41	-1.00	6.66	.00	.50	.50	.00	.00	.00	.02	.04	.02
280-137761-c-6	6/18/2020	3:24 PM	21.54	-1.00	8.43	7.04	218.97	204.90	14.07	.00	.07	2.19	-1.00	.02
DU 280-137761-c-6	6/18/2020	3:30 PM	21.64	-1.00	8.44	7.22	218.93	204.50	14.43	.00	.07	2.19	-1.00	.02
280-137761-c-7	6/18/2020	3:36 PM	21.60	-1.00	7.99	.00	199.21	199.21	.00	.00	.00	1.99	-1.00	.02
280-137761-c-8	6/18/2020	3:42 PM	21.50	-1.00	6.35	.00	.35	.35	.00	.00	.00	.02	.04	.02
280-137761-c-9	6/18/2020	3:48 PM	21.37	-1.00	7.40	.00	456.15	456.15	.00	.00	.00	4.56	-1.00	.02
280-137761-c-10	6/18/2020	3:55 PM	21.43	-1.00	7.51	.00	469.50	469.50	.00	.00	.00	4.69	-1.00	.02
280-137761-c-11	6/18/2020	4:02 PM	21.43	-1.00	7.59	.00	397.54	397.54	.00	.00	.00	3.98	-1.00	.02
280-137761-c-12	6/18/2020	4:08 PM	21.43	-1.00	7.39	.00	294.00	294.00	.00	.00	.00	2.94	-1.00	.02
280-137761-c-13	6/18/2020	4:14 PM	21.47	-1.00	7.07	.00	316.67	316.67	.00	.00	.00	3.17	-1.00	.02
280-137762-c-1	6/18/2020	4:17 PM	21.38	-1.00	3.46	.00	.00	.00	.00	.00	.00	.00	.00	.02
CCV	6/18/2020	4:24 PM	21.44	-1.00	10.52	91.64	182.04	.00	180.81	1.23	.92	1.82	-1.00	.02
CCB	6/18/2020	4:29 PM	21.73	-1.00	6.52	.00	.58	.58	.00	.00	.00	.02	.04	.02
280-137762-c-2	6/18/2020	4:32 PM	22.11	-1.00	3.41	.00	.00	.00	.00	.00	.00	.00	.00	.02
280-137762-c-3	6/18/2020	4:38 PM	21.85	-1.00	6.83	.00	14.05	14.05	.00	.00	.00	.16	.18	.02
280-137762-c-4	6/18/2020	4:41 PM	21.61	-1.00	3.43	.00	.00	.00	.00	.00	.00	.00	.00	.02
280-137762-c-5	6/18/2020	4:47 PM	21.53	-1.00	6.37	.00	6.39	6.39	.00	.00	.00	.08	.10	.02
280-137762-c-6	6/18/2020	4:53 PM	21.44	-1.00	6.38	.00	5.66	5.66	.00	.00	.00	.07	.09	.02
280-137762-c-7	6/18/2020	4:58 PM	21.41	-1.00	6.52	.00	17.07	17.07	.00	.00	.00	.19	.21	.02
280-137762-c-8	6/18/2020	5:03 PM	21.40	-1.00	6.09	.00	71.63	71.63	.00	.00	.00	.72	-1.00	.02
280-137762-c-9	6/18/2020	5:09 PM	21.37	-1.00	5.66	.00	.29	.29	.00	.00	.00	.02	.03	.02
280-137762-c-10	6/18/2020	5:14 PM	21.44	-1.00	6.57	.00	17.40	17.40	.00	.00	.00	.19	.21	.02
280-137762-c-11	6/18/2020	5:20 PM	21.45	-1.00	6.97	.00	14.22	14.22	.00	.00	.00	.16	.18	.02
CCV	6/18/2020	5:26 PM	21.48	-1.00	10.50	90.62	181.94	.70	181.24	.00	.91	1.82	-1.00	.02
CCB	6/18/2020	5:32 PM	21.64	-1.00	6.53	.00	.56	.56	.00	.00	.00	.02	.04	.02

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Run Number 436 **Order Number** 20200618-2

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	(mL) @ 8.3	(mL) @ 4.5	(mL) @ 4.2	Conc (N)
LCS	6/18/2020	5:38 PM	21.79	-1.00	10.49	91.89	186.45	2.68	183.77	.00	.92	1.86	-1.00	.02
LCSD	6/18/2020	5:45 PM	21.64	-1.00	10.51	93.92	188.84	1.00	187.84	.00	.94	1.89	-1.00	.02
MB	6/18/2020	5:50 PM	21.57	-1.00	6.58	.00	.59	.59	.00	.00	.00	.02	.04	.02
280-137762-c-12	6/18/2020	5:55 PM	21.48	-1.00	6.90	.00	41.27	41.27	.00	.00	.00	.41	-1.00	.02
DU 280-137762-c-12	6/18/2020	6:00 PM	21.41	-1.00	6.94	.00	41.42	41.42	.00	.00	.00	.41	-1.00	.02
280-137736-f-3	6/18/2020	6:06 PM	21.38	-1.00	7.46	.00	277.12	277.12	.00	.00	.00	2.77	-1.00	.02
280-137736-f-4	6/18/2020	6:13 PM	21.41	-1.00	7.47	.00	515.63	515.63	.00	.00	.00	5.16	-1.00	.02
280-137736-f-5	6/18/2020	6:20 PM	21.34	-1.00	7.63	.00	582.59	582.59	.00	.00	.00	5.83	-1.00	.02
280-137736-f-7	6/18/2020	6:26 PM	21.37	-1.00	7.37	.00	279.61	279.61	.00	.00	.00	2.80	-1.00	.02
280-137736-f-8	6/18/2020	6:33 PM	21.40	-1.00	7.75	.00	346.48	346.48	.00	.00	.00	3.46	-1.00	.02
280-137736-f-9	6/18/2020	6:38 PM	21.51	-1.00	6.83	.00	74.76	74.76	.00	.00	.00	.75	-1.00	.02
280-137736-f-10	6/18/2020	6:44 PM	21.90	-1.00	7.58	.00	305.18	305.18	.00	.00	.00	3.05	-1.00	.02
280-137736-f-11	6/18/2020	6:51 PM	21.87	-1.00	7.49	.00	306.57	306.57	.00	.00	.00	3.07	-1.00	.02
CCV	6/18/2020	6:57 PM	21.82	-1.00	10.46	92.46	189.47	4.55	184.92	.00	.92	1.89	-1.00	.02
CCB	6/18/2020	7:02 PM	21.83	-1.00	6.46	.00	.49	.49	.00	.00	.00	.02	.04	.02
280-137736-f-12	6/18/2020	7:08 PM	21.80	-1.00	7.54	.00	277.57	277.57	.00	.00	.00	2.78	-1.00	.02
280-137736-f-13	6/18/2020	7:14 PM	21.82	-1.00	7.09	.00	328.47	328.47	.00	.00	.00	3.28	-1.00	.02
280-137736-f-14	6/18/2020	7:21 PM	21.82	-1.00	7.40	.00	255.89	255.89	.00	.00	.00	2.56	-1.00	.02
280-137736-f-15	6/18/2020	7:27 PM	21.85	-1.00	7.62	.00	339.73	339.73	.00	.00	.00	3.40	-1.00	.02
280-137736-f-16	6/18/2020	7:33 PM	21.83	-1.00	7.31	.00	347.48	347.48	.00	.00	.00	3.47	-1.00	.02
280-137736-f-17	6/18/2020	7:39 PM	21.82	-1.00	7.47	.00	283.61	283.61	.00	.00	.00	2.84	-1.00	.02
CCV	6/18/2020	7:46 PM	21.80	-1.00	10.45	92.65	191.13	5.83	185.30	.00	.93	1.91	-1.00	.02
CCB	6/18/2020	7:51 PM	21.92	-1.00	6.43	.00	.60	.60	.00	.00	.00	.02	.04	.02

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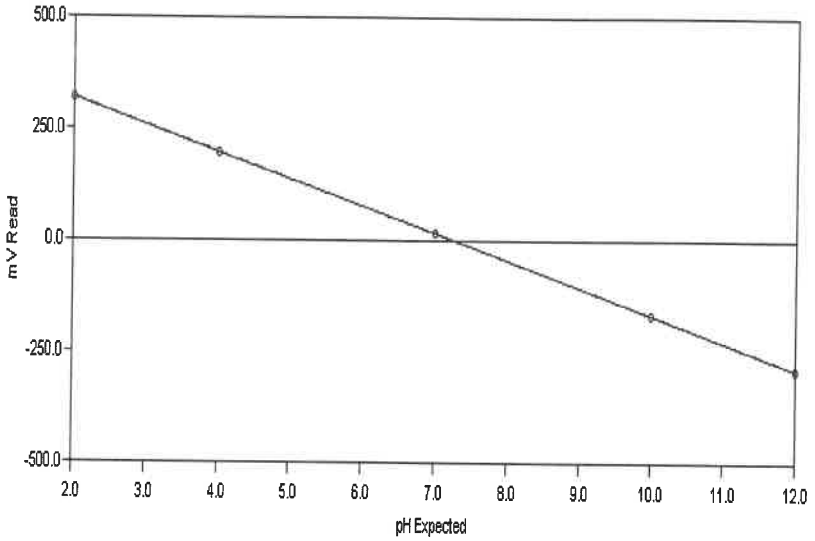
MANTECH

MANTECH INC.

Report Date: 6/19/2020 : 11:43 AM

Calibration Report

Calibration Record # 139



Calibration Settings

Calibration ID	PH	Date	6/19/2020	
Channel	1	Time	11:33 AM	
Probe Type	pH	Temperature	294.49 K	21.34 C
Probe ID	PH ELECTRODE	Analysis Type	Single Line Fit	

Calibration Results

Slope	-61.102	CorrCoeff	1.0000
Intercept	14.892	Equation:	Y = (-61.102) X + (14.892)

Calibration Validity **True** Operator

	Result	Minimum	Maximum
Slope	-61.102	-65.00	-53.00
Intercept	14.892	-100.00	100.00
Correlation Coefficient	1.0000	0.99	1.00

Note: "True" means the calibration was within the specified ranges
"False" means the calibration was NOT within the specified ranges

Calibration Data	Standard	Reading
	2.00	319.82
	4.00	198.48
	7.00	15.38
	10.00	-167.84
	12.00	-291.38

Test America

AT4 Analyst:_____

Water Analysis Report

Run Number 438 **Order Number** 20200619-2

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	(mL) @ 8.3	(mL) @ 4.5	(mL) @ 4.2	Conc (N)
RINSE	6/19/2020	1:20 PM	20.63	-1.00	5.22	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
INITIAL CHECK	6/19/2020	1:26 PM	20.47	-1.00	10.62	98.86	185.98	.00	174.24	11.74	.99	1.86	-1.00	.02
BUFFER 7	6/19/2020	1:29 PM	20.58	-1.00	6.99	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
LCS	6/19/2020	1:36 PM	20.59	-1.00	10.61	99.52	191.74	.00	184.45	7.29	1.00	1.92	-1.00	.02
MB	6/19/2020	1:41 PM	20.78	-1.00	6.85	.00	.50	.50	.00	.00	.00	.02	.04	.02
280-137764-g-1	6/19/2020	1:47 PM	20.69	-1.00	7.55	.00	380.04	380.04	.00	.00	.00	3.80	-1.00	.02
DU 280-137764-g-1	6/19/2020	1:54 PM	20.56	-1.00	7.53	.00	392.45	392.45	.00	.00	.00	3.92	-1.00	.02
280-137731-a-1	6/19/2020	2:01 PM	20.59	-1.00	7.33	.00	787.09	787.09	.00	.00	.00	7.87	-1.00	.02
280-137731-a-3	6/19/2020	2:08 PM	20.74	-1.00	7.24	.00	2.44	2.44	.00	.00	.00	.04	.05	.02
280-137731-a-4	6/19/2020	2:15 PM	20.81	-1.00	8.09	.00	700.88	700.88	.00	.00	.00	7.01	-1.00	.02
280-137739-a-1	6/19/2020	2:21 PM	21.06	-1.00	7.19	.00	46.71	46.71	.00	.00	.00	.47	-1.00	.02
280-137739-a-2	6/19/2020	2:27 PM	21.02	-1.00	7.47	.00	59.55	59.55	.00	.00	.00	.60	-1.00	.02
280-137739-a-3	6/19/2020	2:32 PM	20.84	-1.00	8.03	.00	98.49	98.49	.00	.00	.00	.98	-1.00	.02
280-137739-a-4	6/19/2020	2:38 PM	20.80	-1.00	7.18	.00	45.50	45.50	.00	.00	.00	.45	-1.00	.02
280-137736-d-6	6/19/2020	2:44 PM	20.77	-1.00	7.14	.00	283.45	283.45	.00	.00	.00	2.83	-1.00	.02
CCV	6/19/2020	2:50 PM	20.69	-1.00	10.59	99.58	190.07	.00	180.99	9.08	1.00	1.90	-1.00	.02
CCB	6/19/2020	2:56 PM	20.80	-1.00	6.78	.00	.69	.69	.00	.00	.00	.02	.04	.02
280-137740-g-1	6/19/2020	3:01 PM	20.85	-1.00	7.69	.00	175.21	175.21	.00	.00	.00	1.75	-1.00	.02
280-137740-g-2	6/19/2020	3:07 PM	20.94	-1.00	8.06	.00	129.51	129.51	.00	.00	.00	1.30	-1.00	.02
280-137776-a-1	6/19/2020	3:13 PM	20.95	-1.00	8.17	.00	58.36	58.36	.00	.00	.00	.58	-1.00	.02
280-137776-a-2	6/19/2020	3:19 PM	21.03	-1.00	8.03	.00	67.77	67.77	.00	.00	.00	.68	-1.00	.02
280-137776-a-3	6/19/2020	3:25 PM	21.21	-1.00	8.04	.00	67.78	67.78	.00	.00	.00	.68	-1.00	.02
280-137776-a-4	6/19/2020	3:30 PM	21.44	-1.00	6.77	.00	34.88	34.88	.00	.00	.00	.35	-1.00	.02
280-137776-a-5	6/19/2020	3:36 PM	21.24	-1.00	6.08	.00	.32	.32	.00	.00	.00	.02	.03	.02
280-137776-a-6	6/19/2020	3:41 PM	21.16	-1.00	6.84	.00	41.68	41.68	.00	.00	.00	.42	-1.00	.02
280-137771-a-1	6/19/2020	3:46 PM	21.14	-1.00	6.69	.00	174.13	174.13	.00	.00	.00	1.74	-1.00	.02
280-137771-a-2	6/19/2020	3:52 PM	21.18	-1.00	7.17	.00	178.16	178.16	.00	.00	.00	1.78	-1.00	.02

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Run Number 438 **Order Number** 20200619-2

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	(mL) @ 8.3	(mL) @ 4.5	(mL) @ 4.2	Conc (N)
CCV	6/19/2020	3:58 PM	21.03	-1.00	10.56	95.11	185.25	.00	180.29	4.97	.95	1.85	-1.00	.02
CCB	6/19/2020	4:04 PM	21.19	-1.00	6.84	.00	.50	.50	.00	.00	.00	.02	.04	.02
LCS	6/19/2020	4:10 PM	21.03	-1.00	10.56	96.61	188.30	.00	183.37	4.92	.97	1.88	-1.00	.02
MB	6/19/2020	4:16 PM	21.24	-1.00	6.89	.00	.50	.50	.00	.00	.00	.02	.04	.02
280-137771-a-3	6/19/2020	4:22 PM	21.24	-1.00	6.83	.00	212.59	212.59	.00	.00	.00	2.13	-1.00	.02
DU 280-137771-a-3	6/19/2020	4:27 PM	21.34	-1.00	6.84	.00	209.31	209.31	.00	.00	.00	2.09	-1.00	.02
280-137771-a-4	6/19/2020	4:33 PM	21.51	-1.00	6.85	.00	156.95	156.95	.00	.00	.00	1.57	-1.00	.02
280-137771-a-5	6/19/2020	4:38 PM	21.67	-1.00	6.42	.00	149.96	149.96	.00	.00	.00	1.50	-1.00	.02
280-137815-e-1	6/19/2020	4:45 PM	21.48	-1.00	7.67	.00	328.92	328.92	.00	.00	.00	3.29	-1.00	.02
280-137815-e-2	6/19/2020	4:51 PM	21.38	-1.00	7.44	.00	269.14	269.14	.00	.00	.00	2.69	-1.00	.02
280-137815-e-3	6/19/2020	4:57 PM	21.30	-1.00	7.54	.00	141.04	141.04	.00	.00	.00	1.41	-1.00	.02
280-137780-a-1	6/19/2020	5:03 PM	21.24	-1.00	7.65	.00	197.85	197.85	.00	.00	.00	1.98	-1.00	.02
280-137780-a-2	6/19/2020	5:09 PM	21.24	-1.00	7.67	.00	194.84	194.84	.00	.00	.00	1.95	-1.00	.02
280-137780-a-3	6/19/2020	5:15 PM	21.27	-1.00	7.22	.00	171.67	171.67	.00	.00	.00	1.72	-1.00	.02
CCV	6/19/2020	5:21 PM	21.12	-1.00	10.53	95.23	186.78	.00	183.11	3.68	.95	1.87	-1.00	.02
CCB	6/19/2020	5:26 PM	21.30	-1.00	6.62	.00	.60	.60	.00	.00	.00	.02	.04	.02
280-137780-a-4	6/19/2020	5:31 PM	21.24	-1.00	5.76	.00	.25	.25	.00	.00	.00	.02	.03	.02
280-137780-a-5	6/19/2020	5:36 PM	21.37	-1.00	7.66	.00	75.63	75.63	.00	.00	.00	.76	-1.00	.02
280-137780-a-6	6/19/2020	5:42 PM	21.69	-1.00	7.60	.00	69.25	69.25	.00	.00	.00	.69	-1.00	.02
280-137780-a-7	6/19/2020	5:48 PM	21.56	-1.00	7.59	.00	70.59	70.59	.00	.00	.00	.71	-1.00	.02
280-137780-a-8	6/19/2020	5:53 PM	21.48	-1.00	7.95	.00	124.10	124.10	.00	.00	.00	1.24	-1.00	.02
280-137780-a-9	6/19/2020	5:59 PM	21.38	-1.00	7.65	.00	59.06	59.06	.00	.00	.00	.59	-1.00	.02
280-137780-a-10	6/19/2020	6:04 PM	21.31	-1.00	7.51	.00	70.36	70.36	.00	.00	.00	.70	-1.00	.02
280-137780-a-11	6/19/2020	6:09 PM	21.35	-1.00	6.89	.00	68.75	68.75	.00	.00	.00	.69	-1.00	.02
280-137780-a-12	6/19/2020	6:15 PM	21.37	-1.00	7.40	.00	124.20	124.20	.00	.00	.00	1.24	-1.00	.02
280-137780-a-13	6/19/2020	6:21 PM	21.35	-1.00	7.78	.00	162.28	162.28	.00	.00	.00	1.62	-1.00	.02
CCV	6/19/2020	6:27 PM	21.32	-1.00	10.51	94.54	187.83	.00	186.59	1.25	.95	1.88	-1.00	.02
CCB	6/19/2020	6:33 PM	21.41	-1.00	6.69	.00	.49	.49	.00	.00	.00	.02	.04	.02
LCS	6/19/2020	6:39 PM	21.30	-1.00	10.50	94.94	190.33	.45	189.88	.00	.95	1.90	-1.00	.02
MB	6/19/2020	6:44 PM	21.51	-1.00	6.73	.00	.58	.58	.00	.00	.00	.02	.04	.02

PC-TitratION PLUS by Man-Tech Associates, Inc.

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Run Number 438 **Order Number** 20200619-2

SampleID	RunDate	RunTime	Temp	cond (uS)	pH	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	(mL) @ 8.3	(mL) @ 4.5	(mL) @ 4.2	Conc (N)
280-137780-a-14	6/19/2020	6:49 PM	21.76	-1.00	5.75	.00	.32	.32	.00	.00	.00	.02	.03	.02
DU 280-137780-a-14	6/19/2020	6:53 PM	21.69	-1.00	5.72	.00	.17	.17	.00	.00	.00	.02	.03	.02
280-137801-d-1	6/19/2020	7:00 PM	21.60	-1.00	6.92	.00	132.57	132.57	.00	.00	.00	1.33	-1.00	.02
280-137801-d-2	6/19/2020	7:05 PM	21.56	-1.00	7.64	.00	94.15	94.15	.00	.00	.00	.94	-1.00	.02
280-137801-d-3	6/19/2020	7:10 PM	21.41	-1.00	7.85	.00	140.06	140.06	.00	.00	.00	1.40	-1.00	.02
280-137801-d-4	6/19/2020	7:16 PM	21.35	-1.00	6.79	.00	7.03	7.03	.00	.00	.00	.09	.10	.02
280-137801-d-5	6/19/2020	7:22 PM	21.34	-1.00	6.53	.00	6.57	6.57	.00	.00	.00	.08	.10	.02
280-137801-d-6	6/19/2020	7:27 PM	21.32	-1.00	6.57	.00	5.87	5.87	.00	.00	.00	.07	.09	.02
280-137801-d-7	6/19/2020	7:32 PM	21.27	-1.00	5.71	.00	.23	.23	.00	.00	.00	.02	.03	.02
CCV	6/19/2020	7:38 PM	21.28	-1.00	10.47	90.33	184.77	4.10	180.67	.00	.90	1.85	-1.00	.02
CCB	6/19/2020	7:43 PM	21.41	-1.00	6.74	.00	.55	.55	.00	.00	.00	.02	.04	.02

PC-TitratION PLUS by Man-Tech Associates, Inc.

GENERAL RESULTS REPORT.SRW

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Shipping and Receiving Documents

AECOM
12120 Shamrock Plaza Suite 300, Omaha, NE 68154 (402) 334-8181 Fax (402) 334-1984

CHAIN OF CUSTODY RECORD

Project Name: CHAAP	AECOM Project Number: 60565355	Bill to: Brice Engineering
Project Location: Grand Island, Nebraska	AECOM Project Manager: Dean Converse	Remarks
Sampler(s): TY ~~JO~~ GC ~~CA~~ RA		standard TAT

Sample Date	Sample Time	Type Comp.	Type Grab	Sample Identification	Matrix	Containers No.	Containers Type	Explosives+MNX (8330A)	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)	SO_4 (9056A), Alkalinity (2320B)	Sulfide (9034)	DOC (9060A)*	Methane (RSK 175)	8260 B	Remarks
6-16-20	1730		X	WC-Q3-June20	AQ	5	A, G	X						X	6°C
6-16-20	1700		X	TB03-061620	AQ	2	G							X	6°
6-16-20	0935		X	GW091-20A	AQ	9	ABCDEF	X	X	X	X	X	X		6°

280-137736 Chain of Custody

Signatures	Date	Time	Shipping Details	Special Instructions
Relinquished by:	6-16-20	1800	Method of Shipment: Federal Express	* Filter groundwater sample before analyzing for DOC
Received by: ETA Den	6/17/20	0920	Airbill Number:	(A) (2) 500mL Ambers (Explosives) (B) (1) 500mL HDPE w/ H_2SO_4 (TKN, NH_3, NO_2/NO_3) (C) (1) 250mL HDPE (SO_4, Alkalinity) (D) (1) 250mL HDPE w/ ZnOAc/NaOH (Sulfide) (E) (1) 250mL Amber (DOC)* (F) (3) 40 mL VOA w/ HCl (Methane) (G) (3) 40mL VOA w/ HCL VOC 8260 B
Relinquished by:			**Lab Address:** TestAmerica Lab, Inc. Attn: Patrick McEntee 4955 Yarrow St. Arvada, CO 80002 (303) 736-0107	TAL/Brice Project #: 28017805
Received for Laboratory by:				

0.3°C, -0.1°C, 0.3°C, 1.6°C, 1.0°C, 0.9°C, 1.4°C, 0.3°C, 0.4°C IR8 +0.6 GS 6/17/20

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2020117

AECOM
12120 Shamrock Plaza Suite 300, Omaha, NE 68154 (402) 334-8181 Fax (402) 334-1984

CHAIN OF CUSTODY RECORD

Project Name: CHAAP	AECOM Project Number: 60565355
Project Location: Grand Island, Nebraska	AECOM Project Manager: Dean Converse
Sampler(s): CH JO	

Sample Date	Sample Time	Type Comp.	Type Grab	Sample Identification	Matrix	Containers No.	Containers Type	Explosives+MNX (8330A)	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)	SO_4 (9056A), Alkalinity (2320B)	Sulfide (9034)	DOC (9060A)*	Methane (RSK 175)		Bill to: Brice Engineering / Remarks / standard TAT
6-16-20	1320		X	GO123-20A	AQ	9	ABCDEF	X	X	X	X	X	X		6°C
6-16-20	1155		X	GO122-20A	AQ	9	ABCDEF	X	X	X	X	X	X		6°C

Signatures	Date	Time	Shipping Details	Special Instructions
Relinquished by:	6-16-20	1800	Method of Shipment: Federal Express	* Filter groundwater sample before analyzing for DOC
Received by: ETA Den	6-17-20	0920	Airbill Number:	(A) (2) 500mL Ambers (Explosives) (B) (1) 500mL HDPE w/ H_2SO_4 (TKN, NH_3, NO_2/NO_3) (C) (1) 250mL HDPE (SO_4, Alkalinity) (D) (1) 250mL HDPE w/ ZnOAc/NaOH (Sulfide) (E) (1) 250mL Amber (DOC)* (F) (3) 40 mL VOA w/ HCl (Methane)
Relinquished by:			**Lab Address:** TestAmerica Lab, Inc. Attn: Patrick McEntee 4955 Yarrow St. Arvada, CO 80002 (303) 736-0107	
Received for Laboratory by:				TAL/Brice Project #: 28017805

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2020120

AECOM
12120 Shamrock Plaza Suite 300, Omaha, NE 68154 (402) 334-8181 Fax (402) 334-1984

CHAIN OF CUSTODY RECORD

Project Name: CHAAP	AECOM Project Number: 60565355	Bill to: Brice Engineering
Project Location: Grand Island, Nebraska	AECOM Project Manager: Dean Converse	Remarks
Sampler(s): CH JO		standard TAT

Sample Date	Sample Time	Type Comp.	Type Grab	Sample Identification	Matrix	Containers No.	Containers Type	Explosives+MNX (8330A)	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)	SO_4 (9056A), Alkalinity (2320B)	Sulfide (9034)	DOC (9060A)*	Methane (RSK 175)		Remarks
6-16-20	0940		X	GO096-20A	AQ	9	ABCDEF	X	X	X	X	X	X		6°C
6-16-20	0800		X	GO296-20A	AQ	9	ABCDEF	X	X	X	X	X	X		

Signatures	Date	Time	Shipping Details	Special Instructions
Relinquished by:	6-16-20	1700	Method of Shipment: Federal Express	* Filter groundwater sample before analyzing for DOC
Received by: ETA Den	6-17-20	0920	Airbill Number:	(A) (2) 500mL Ambers (Explosives) (B) (1) 500mL HDPE w/ H_2SO_4 (TKN, NH_3, NO_2/NO_3) (C) (1) 250mL HDPE (SO_4, Alkalinity) (D) (1) 250mL HDPE w/ ZnOAc/NaOH (Sulfide) (E) (1) 250mL Amber (DOC)* (F) (3) 40 mL VOA w/ HCl (Methane)
Relinquished by:			**Lab Address:** TestAmerica Lab, Inc. Attn: Patrick McEntee 4955 Yarrow St. Arvada, CO 80002 (303) 736-0107	
Received for Laboratory by:				TAL/Brice Project #: 28017805

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2020112

AECOM
12120 Shamrock Plaza Suite 300, Omaha, NE 68154 (402) 334-8181 Fax (402) 334-1984

CHAIN OF CUSTODY RECORD

Project Name: CHAAP	AECOM Project Number: 60565355	Bill to: Brice Engineering
Project Location: Grand Island, Nebraska	AECOM Project Manager: Dean Converse	Remarks
Sampler(s): TY GC		standard TAT

Sample Date	Sample Time	Type Comp.	Type Grab	Sample Identification	Matrix	Containers No.	Containers Type	Explosives+MNX (8330A)	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)	SO_4 (9056A), Alkalinity (2320B)	Sulfide (9034)	DOC (9060A)*	Methane (RSK 175)		Analytical Parameters
6-16-20	1040		X	GO092-20A	AQ	9	ABCDEF	X	X	X	X	X	X		6°C
6-16-20	1200		X	PZ019-20A	AQ	9	ABCDEF	X	X	X	X	X	X		6°C

Signatures	Date	Time	Shipping Details	Special Instructions
Relinquished by:	6-16-20	1800	Method of Shipment: Federal Express	* Filter groundwater sample before analyzing for DOC
Received by: ETA Den	6-17-20	0920	Airbill Number:	(A) (2) 500mL Ambers (Explosives) (B) (1) 500mL HDPE w/ H_2SO_4 (TKN, NH_3, NO_2/NO_3) (C) (1) 250mL HDPE (SO_4, Alkalinity) (D) (1) 250mL HDPE w/ ZnOAc/NaOH (Sulfide) (E) (1) 250mL Amber (DOC)* (F) (3) 40 mL VOA w/ HCl (Methane)
Relinquished by:			**Lab Address:** TestAmerica Lab, Inc. Attn: Patrick McEntee 4955 Yarrow St. Arvada, CO 80002 (303) 736-0107	
Received for Laboratory by:				TAL/Brice Project #: 28017805

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2020119

AECOM
12120 Shamrock Plaza Suite 300, Omaha, NE 68154 (402) 334-8181 Fax (402) 334-1984

CHAIN OF CUSTODY RECORD

Project Name: CHAAP	AECOM Project Number: 60565355
Project Location: Grand Island, Nebraska	AECOM Project Manager: Dean Converse
Sampler(s): TY GC	

Sample Date	Sample Time	Type Comp.	Type Grab	Sample Identification	Matrix	Containers No.	Containers Type	Explosives+MNX (8330A)	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)	SO_4 (9056A), Alkalinity (2320B)	Sulfide (9034)	DOC (9060A)*	Methane (RSK 175)		Bill to: Brice Engineering Remarks standard TAT
6-16-20	1200		X	PZ019-20A (MS)	AQ	9	ABCDEF	X	X	X	X	X	X		6°C (MS)
6-16-20	1200		X	PZ019-20A (MSD)	AQ	9	ABCDEF	X	X	X	X	X	X		6° (MSD)

Signatures	Date	Time	Shipping Details	Special Instructions
Relinquished by:	6-16-20	1800	Method of Shipment: Federal Express	* Filter groundwater sample before analyzing for DOC
Received by: ETA Dor	6-17-20		Airbill Number:	(A) (2) 500mL Ambers (Explosives) (B) (1) 500mL HDPE w/ H_2SO_4 (TKN, NH_3, NO_2/NO_3) (C) (1) 250mL HDPE (SO_4, Alkalinity) (D) (1) 250mL HDPE w/ ZnOAc/NaOH (Sulfide) (E) (1) 250mL Amber (DOC)* (F) (3) 40 mL VOA w/ HCl (Methane)
Relinquished by:			**Lab Address:** TestAmerica Lab, Inc. Attn: Patrick McEntee 4955 Yarrow St. Arvada, CO 80002 (303) 736-0107	TAL/Brice Project #: 28017805
Received for Laboratory by:				

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2020118

AECOM
12120 Shamrock Plaza Suite 300, Omaha, NE 68154 (402) 334-8181 Fax (402) 334-1984

CHAIN OF CUSTODY RECORD

Project Name: CHAAP	AECOM Project Number: 60565355
Project Location: Grand Island, Nebraska	AECOM Project Manager: Dean Converse
Sampler(s): TY GC JO CH	

Sample Date	Sample Time	Type Comp.	Type Grab	Sample Identification	Matrix	Containers No.	Containers Type	Explosives+MNX (8330A)	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)	SO_4 (9056A), Alkalinity (2320B)	Sulfide (9034)	DOC (9060A)*	Methane (RSK 175)		Remarks
6-15-20	1540		X	PZ020-20A	AQ	9	ABCDEF	X	X	X	X	X	X		6°C
6-15-20	1640		X	GW087-20A	AQ	9	ABCDEF	X	X	X	X	X	X		

Bill to: Brice Engineering

Analytical Parameters

standard TAT

Signatures	Date	Time
Relinquished by:	6-16-20	1200
Received by: ETA Den	6-17-20	0920
Relinquished by:		
Received for Laboratory by:		

Shipping Details

Method of Shipment: Federal Express

Airbill Number:

Lab Address:
TestAmerica Lab, Inc.
Attn: Patrick McEntee
4955 Yarrow St.
Arvada, CO 80002
(303) 736-0107

Special Instructions

* Filter groundwater sample before analyzing for DOC

(A) (2) 500mL Ambers (Explosives)
(B) (1) 500mL HDPE w/ H_2SO_4 (TKN, NH_3, NO_2/NO_3)
(C) (1) 250mL HDPE (SO_4, Alkalinity)
(D) (1) 250mL HDPE w/ ZnOAc/NaOH (Sulfide)
(E) (1) 250mL Amber (DOC)*
(F) (3) 40 mL VOA w/ HCl (Methane)

TAL/Brice Project #: 28017805

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2020108

AECOM
12120 Shamrock Plaza Suite 300, Omaha, NE 68154 (402) 334-8181 Fax (402) 334-1984

CHAIN OF CUSTODY RECORD

Project Name: CHAAP	AECOM Project Number: 60565355	Bill to: Brice Engineering
Project Location: Grand Island, Nebraska	AECOM Project Manager: Dean Converse	Remarks
Sampler(s): TY GC		standard TAT

Sample Date	Sample Time	Type Comp.	Type Grab	Sample Identification	Matrix	Containers No.	Containers Type	Analytical Parameters: Explosives+MNX (8330A)	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)	SO_4 (9056A), Alkalinity (2320B)	Sulfide (9034)	DOC (9060A)*	Methane (RSK 175)		Remarks
6-15-20	1340		X	G0088-20A	AQ	9	ABCDEF	X	X	X	X	X	X		6°C
6-15-20	1520		X	G0089-20A	AQ	9	ABCDEF	X	X	X	X	X	X		6°

Signatures	Date	Time	Shipping Details	Special Instructions
Relinquished by:	6-16-20	1700	Method of Shipment: Federal Express	* Filter groundwater sample before analyzing for DOC
Received by: ETA Den	6-17-20	0920	Airbill Number:	(A) (2) 500mL Ambers (Explosives) (B) (1) 500mL HDPE w/ H_2SO_4 (TKN, NH_3, NO_2/NO_3) (C) (1) 250mL HDPE (SO_4, Alkalinity) (D) (1) 250mL HDPE w/ ZnOAc/NaOH (Sulfide) (E) (1) 250mL Amber (DOC)* (F) (3) 40 mL VOA w/ HCl (Methane)
Relinquished by:			**Lab Address:** TestAmerica Lab, Inc. Attn: Patrick McEntee 4955 Yarrow St. Arvada, CO 80002 (303) 736-0107	
Received for Laboratory by:				TAL/Brice Project #: 28017805

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2020109

AECOM
12120 Shamrock Plaza Suite 300, Omaha, NE 68154 (402) 334-8181 Fax (402) 334-1984

CHAIN OF CUSTODY RECORD

Project Name: CHAAP	AECOM Project Number: 60565355
Project Location: Grand Island, Nebraska	AECOM Project Manager: Dean Converse
Sampler(s): ~~FYGG~~ CHJO	

Sample Date	Sample Time	Type Comp.	Type Grab	Sample Identification	Matrix	Containers No.	Containers Type	Explosives+MNX (8330A)	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)	SO_4 (9056A), Alkalinity (2320B)	Sulfide (9034)	DOC (9060A)*	Methane (RSK 175)		Bill to: Brice Engineering Remarks standard TAT
6-15-20	1320		X	GOOTT-20A	AQ	9	ABCDEF	X	X	X	X	X	X		6°C
6-15-20	1430		X	GOO78-20A	AQ	9	ABCDEF	X	X	X	X	X	X		6°C

Signatures	Date	Time	Shipping Details	Special Instructions
Relinquished by:	6-16-20	1700	Method of Shipment: Federal Express	* Filter groundwater sample before analyzing for DOC
Received by: ETA Den	6-17-20	0920	Airbill Number: 8156 5922 7575	(A) (2) 500mL Ambers (Explosives) (B) (1) 500mL HDPE w/ H_2SO_4 (TKN, NH_3, NO_2/NO_3) (C) (1) 250mL HDPE (SO_4, Alkalinity) (D) (1) 250mL HDPE w/ ZnOAc/NaOH (Sulfide) (E) (1) 250mL Amber (DOC)* (F) (3) 40 mL VOA w/ HCl (Methane)
Relinquished by:			**Lab Address:** TestAmerica Lab, Inc. Attn: Patrick McEntee 4955 Yarrow St. Arvada, CO 80002 (303) 736-0107	
Received for Laboratory by:				TAL/Brice Project #: 28017805

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2020107

AECOM
12120 Shamrock Plaza Suite 300, Omaha, NE 68154 (402) 334-8181 Fax (402) 334-1984

CHAIN OF CUSTODY RECORD

Project Name: CHAAP	AECOM Project Number: 60565355
Project Location: Grand Island, Nebraska	AECOM Project Manager: Dean Converse
Sampler(s): TY GC CH JO	

Bill to: Brice Engineering

Remarks: standard TAT

Sample Date	Sample Time	Type Comp.	Type Grab	Sample Identification	Matrix	Containers No.	Containers Type	Explosives+MNX (8330A)	TKN (351.2), NH_3 (350.1), NO_2/NO_3 (353.2)	SO_4 (9056A), Alkalinity (2320B)	Sulfide (9034)	DOC (9060A)*	Methane (RSK 175)		Remarks
6-16-20	0825		X	GO093-20A	AQ	9	ABCDEF	X	X	X	X	X	X		6°C
6-16-20	0815		X	GO086-20A	AQ	9	ABCDEF	X	X	X	X	X	X		

Signatures	Date	Time	Shipping Details	Special Instructions
Relinquished by:	6-16-20	1700	Method of Shipment: Federal Express	* Filter groundwater sample before analyzing for DOC
Received by: ETA Den	6/17/20		Airbill Number:	(A) (2) 500mL Ambers (Explosives) (B) (1) 500mL HDPE w/ H_2SO_4 (TKN, NH_3, NO_2/NO_3) (C) (1) 250mL HDPE (SO_4, Alkalinity) (D) (1) 250mL HDPE w/ ZnOAc/NaOH (Sulfide) (E) (1) 250mL Amber (DOC)* (F) (3) 40 mL VOA w/ HCl (Methane)
Relinquished by:			**Lab Address:** TestAmerica Lab, Inc. Attn: Patrick McEntee 4955 Yarrow St. Arvada, CO 80002 (303) 736-0107	TAL/Brice Project #: 28017805
Received for Laboratory by:				

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2020110



ORIGIN ID:GRIA (999) 999-9989
SAMPLE
TEST AMERICA DENVER
4955 YARROW ST

ARVADA, CO 80002
UNITED STATES US

SHIP DATE: 16JUN20
ACTWGT: 44.00 LB
CAD: 6994183/SSFE2110
DIMS: 23x12x12 IN

BILL THIRD PARTY

TO **SAMPLE**
TEST AMERICA DENVER
4955 YARROW ST

ARVADA CO 80002
(999) 999-9999 REF:
INV:
PO: DEPT:

FedEx Express

7 of 9

MPS# 0681 3939 2481 0765
Mstr# 8092 4627 1174

0215

WED - 17 JUN 10:30A
PRIORITY OVERNIGHT

AHS
80002
CO-US **DEN**

XH LAAA

ORIGIN ID:GRIA (999) 999-9999
SAMPLE
TEST AMERICA DENVER
4955 YARROW ST

ARVADA, CO 80002
UNITED STATES US

SHIP DATE: 16JUN20
ACTWGT: 44.00 LB
CAD: 6994183/SSFE2110
DIMS: 23x12x12 IN

BILL THIRD PARTY

SAMPLE
TEST AMERICA DENVER
4955 YARROW ST

ARVADA CO 80002
(999) 999-9999 REF:
DEPT:


4 of 9
MPS# 0681 3939 2481 0732
Mstr# 8092 4627 1174
0215
XH LAAA
WED – 17 JUN 10:30A
PRIORITY OVERNIGHT
AHS
80002
CO-US DEN
2 of 9
MPS# 0681 3939 2481 0710
Mstr# 8092 4627 1174
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XH LAAA
17 JUN 10:30A
PRIORITY OVERNIGHT
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CO-US DEN
1 of 9
TRK# 0215 8092 4627 1174
MASTER
XH LAAA
WED – 17 JUN 10:30A
PRIORITY OVERNIGHT
AHS
80002
CO-US DEN
3 of 9
MPS# 0681 3939 2481 0721
Mstr# 8092 4627 1174
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WED – 17 JUN 10:30A
PRIORITY OVERNIGHT
AHS
80002
CO-US DEN


9 of 9
MPS# 0681 3939 2481 0787
Mstr# 8092 4627 1174
0215
XH LAAA
WED – 17 JUN 10:30A
PRIORITY OVERNIGHT
AHS
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CO-US DEN
6 of 9
MPS# 0681 3939 2481 0754
Mstr# 8092 4627 1174
0215
XH LAAA
WED – 17 JUN 10:30A
PRIORITY OVERNIGHT
AHS
80002
CO-US DEN
5 of 9
MPS# 0681 3939 2481 0743
Mstr# 8092 4627 1174
0215
XH LAAA
WED – 17 JUN 10:30A
PRIORITY OVERNIGHT
AHS
80002
CO-US DEN
8 of 9
MPS# 0681 3939 2481 0776
Mstr# 8092 4627 1174
0215
XH LAAA
WED – 17 JUN 10:30A
PRIORITY OVERNIGHT
AHS
80002
CO-US DEN

Login Sample Receipt Checklist

Client: Brice Environmental Services, Corp

Job Number: 280-137736-1

Login Number: 137736
List Number: 1
Creator: Bentley, Beau J

List Source: Eurofins TestAmerica, Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	Refer to Job Narrative for details.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	