

ANALYTICAL REPORT

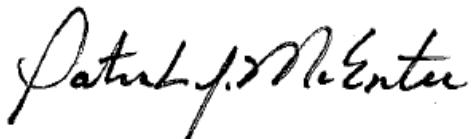
Job Number: 280-134369-1

Job Description: Cornhusker (CHAAP)

For:

Brice Environmental Services, Corp
3800 Centerpoint Drive, Suite 520
Anchorage, AK 99503

Attention: Corey Schwabenlander



Approved for release.
Patrick J McEntee
Client Service Manager
3/25/2020 4:54 AM

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03/25/2020

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

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 TestAmerica Denver Project Manager.

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Definitions/Glossary

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

Job ID: 280-134369-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
M	Manual integrated compound.
Q	One or more quality control criteria failed.
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (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)

CASE NARRATIVE

Client: Brice Environmental Services, Corp

Project: Cornhusker (CHAAP)

Report Number: 280-134369-1

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 sample was received on 3/6/2020 11:15 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.6° C.

NITROAROMATICS AND NITRAMINES (HPLC)

Sample WATERWC-Q2-MAR20 (280-134369-1) was analyzed for Nitroaromatics and Nitramines (HPLC) in accordance with 8330A. The samples were prepared on 03/10/2020 and analyzed on 03/16/2020 and 03/17/2020.

Surrogate recovery for the following sample was outside control limits: WATERWC-Q2-MAR20 (280-134369-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

2,4-Dinitrotoluene, 2-Amino-4,6-dinitrotoluene, 2-Nitrotoluene, 3-Nitrotoluene, 4-Amino-2,6-dinitrotoluene, 4-Nitrotoluene and Nitrobenzene failed the recovery criteria low for LCS 280-488301/2-A. Refer to the QC report for details. The client was notified and instructed the laboratory to report, flag and narrate the anomaly as the sample is outside two times the holding time.

The following sample required filtration to reduce matrix interferences: WATERWC-Q2-MAR20 (280-134369-1).

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

Detection Summary

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

Job ID: 280-134369-1

Client Sample ID: WATERWC-Q2-MAR20

Lab Sample ID: 280-134369-1

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Client Sample Results

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

Job ID: 280-134369-1

Client Sample ID: WATERWC-Q2-MAR20

Lab Sample ID: 280-134369-1

Matrix: Water

Date Collected: 03/05/20 12:00

Date Received: 03/06/20 11:15

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trinitrobenzene	0.42	U M	1.0	0.42	0.21	ug/L		03/16/20 18:38	1
1,3-Dinitrobenzene	0.21	U M	0.42	0.21	0.092	ug/L		03/16/20 18:38	1
2,4,6-Trinitrotoluene	0.42	U	0.42	0.42	0.17	ug/L		03/16/20 18:38	1
2,4-Dinitrotoluene	0.21	U Q	0.42	0.21	0.087	ug/L		03/16/20 18:38	1
2,6-Dinitrotoluene	0.21	U	0.21	0.21	0.067	ug/L		03/16/20 18:38	1
2-Amino-4,6-dinitrotoluene	0.12	U Q	0.21	0.12	0.053	ug/L		03/16/20 18:38	1
2-Nitrotoluene	0.21	U Q	0.42	0.21	0.089	ug/L		03/16/20 18:38	1
3-Nitrotoluene	0.42	U Q	0.42	0.42	0.20	ug/L		03/16/20 18:38	1
4-Amino-2,6-dinitrotoluene	0.12	U Q	0.21	0.12	0.060	ug/L		03/17/20 13:34	1
4-Nitrotoluene	0.42	U Q M	1.0	0.42	0.21	ug/L		03/16/20 18:38	1
HMX	0.21	U	0.42	0.21	0.091	ug/L		03/16/20 18:38	1
MNX	0.42	U Q	2.1	0.42	0.16	ug/L		03/17/20 13:34	1
Nitrobenzene	0.21	U Q M	0.42	0.21	0.095	ug/L		03/16/20 18:38	1
RDX	0.42	U Q	0.42	0.42	0.16	ug/L		03/17/20 13:34	1
Tetryl	0.21	U	0.25	0.21	0.083	ug/L		03/16/20 18:38	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac		
1,2-Dinitrobenzene	97	M	83 - 119		03/10/20 19:07	03/16/20 18:38			1
1,2-Dinitrobenzene	49	Q	83 - 119		03/10/20 19:07	03/17/20 13:34			1

Default Detection Limits

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

Job ID: 280-134369-1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Prep: 3535

Analyte	LOQ	DL	Units
1,3,5-Trinitrobenzene	1.0	0.20	ug/L
1,3-Dinitrobenzene	0.40	0.089	ug/L
2,4,6-Trinitrotoluene	0.40	0.16	ug/L
2,4-Dinitrotoluene	0.40	0.084	ug/L
2,6-Dinitrotoluene	0.20	0.065	ug/L
2-Amino-4,6-dinitrotoluene	0.20	0.051	ug/L
2-Nitrotoluene	0.40	0.086	ug/L
3-Nitrotoluene	0.40	0.20	ug/L
4-Amino-2,6-dinitrotoluene	0.20	0.058	ug/L
4-Nitrotoluene	1.0	0.20	ug/L
HMX	0.40	0.088	ug/L
MNX	2.0	0.15	ug/L
Nitrobenzene	0.40	0.091	ug/L
RDX	0.40	0.16	ug/L
Tetryl	0.24	0.079	ug/L

Surrogate Summary

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

Job ID: 280-134369-1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		12DNB1 (83-119)	97 M
280-134369-1	WATERWC-Q2-MAR20	97 M	
LCS 280-488301/2-A	Lab Control Sample	85	
LCS 280-488301/6-A	Lab Control Sample	89	
LCSD 280-488301/3-A	Lab Control Sample Dup	91	
LCSD 280-488301/7-A	Lab Control Sample Dup	96	
MB 280-488301/1-A	Method Blank	88	

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		12DNB2 (83-119)	49 Q
280-134369-1	WATERWC-Q2-MAR20	49 Q	

Surrogate Legend

12DNB = 1,2-Dinitrobenzene

QC Sample Results

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

Job ID: 280-134369-1

Method: 8330A - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 280-488301/1-A

Matrix: Water

Analysis Batch: 488648

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 488301

Analyte	MB		MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier	Result	Qualifier							
1,3,5-Trinitrobenzene	0.40	U			1.0	0.40	0.20	ug/L		03/13/20 16:52	1
1,3-Dinitrobenzene	0.20	U			0.40	0.20	0.089	ug/L		03/13/20 16:52	1
2,4,6-Trinitrotoluene	0.40	U			0.40	0.40	0.16	ug/L		03/13/20 16:52	1
2,4-Dinitrotoluene	0.20	U			0.40	0.20	0.084	ug/L		03/13/20 16:52	1
2,6-Dinitrotoluene	0.20	U			0.20	0.20	0.065	ug/L		03/13/20 16:52	1
2-Amino-4,6-dinitrotoluene	0.12	U			0.20	0.12	0.051	ug/L		03/13/20 16:52	1
2-Nitrotoluene	0.20	U			0.40	0.20	0.086	ug/L		03/13/20 16:52	1
3-Nitrotoluene	0.40	U			0.40	0.40	0.20	ug/L		03/13/20 16:52	1
4-Amino-2,6-dinitrotoluene	0.12	U			0.20	0.12	0.058	ug/L		03/13/20 16:52	1
4-Nitrotoluene	0.40	U			1.0	0.40	0.20	ug/L		03/13/20 16:52	1
HMX	0.20	U			0.40	0.20	0.088	ug/L		03/13/20 16:52	1
MNX	0.40	U M			2.0	0.40	0.15	ug/L		03/13/20 16:52	1
Nitrobenzene	0.20	U			0.40	0.20	0.091	ug/L		03/13/20 16:52	1
RDX	0.40	U			0.40	0.40	0.16	ug/L		03/13/20 16:52	1
Tetryl	0.20	U			0.24	0.20	0.079	ug/L		03/13/20 16:52	1
Surrogate		MB		MB		Limits		Prepared		Analyzed	Dil Fac
1,2-Dinitrobenzene		%Recovery	88	Qualifier		Limits			03/10/20 19:07	03/13/20 16:52	1

Lab Sample ID: LCS 280-488301/2-A

Matrix: Water

Analysis Batch: 488648

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 488301

Analyte	Spike		LCS		Unit	D	%Rec	Limits	%Rec.	Limits	
	Added	Result	Result	Qualifier							
1,3,5-Trinitrobenzene	2.00		1.75		ug/L		88	73 - 125			
1,3-Dinitrobenzene	2.00		1.59		ug/L		79	78 - 120			
2,4,6-Trinitrotoluene	2.00		1.71		ug/L		85	71 - 123			
2,4-Dinitrotoluene	2.00		1.54	Q	ug/L		77	78 - 120			
2,6-Dinitrotoluene	2.00		1.64		ug/L		82	77 - 127			
2-Amino-4,6-dinitrotoluene	2.00		1.50	Q	ug/L		75	79 - 120			
2-Nitrotoluene	2.00		1.19	Q	ug/L		59	70 - 127			
3-Nitrotoluene	2.00		1.31	Q	ug/L		66	73 - 125			
4-Amino-2,6-dinitrotoluene	2.00		1.48	Q	ug/L		74	76 - 125			
4-Nitrotoluene	2.00		1.28	Q	ug/L		64	71 - 127			
HMX	2.00		1.79	M	ug/L		89	65 - 135			
Nitrobenzene	2.00		1.28	Q	ug/L		64	65 - 134			
RDX	2.00		1.74		ug/L		87	68 - 130			
Tetryl	2.00		1.63		ug/L		81	64 - 128			
Surrogate		%Recovery	85	Qualifier	Limits						
1,2-Dinitrobenzene			83 - 119								

Lab Sample ID: LCS 280-488301/6-A

Matrix: Water

Analysis Batch: 488648

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 488301

Analyte	Spike		LCS		Unit	D	%Rec	Limits
	Added	Result	Result	Qualifier				
MNX	2.33		2.11		ug/L		91	57 - 132

Eurofins TestAmerica, Denver

QC Sample Results

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

Job ID: 280-134369-1

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

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dinitrobenzene	89		83 - 119

Lab Sample ID: LCSD 280-488301/3-A

Matrix: Water

Analysis Batch: 488648

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier						
1,3,5-Trinitrobenzene	2.00	1.93		ug/L		97	73 - 125	10	30
1,3-Dinitrobenzene	2.00	1.81		ug/L		91	78 - 120	13	30
2,4,6-Trinitrotoluene	2.00	1.83		ug/L		91	71 - 123	7	30
2,4-Dinitrotoluene	2.00	1.73		ug/L		87	78 - 120	12	30
2,6-Dinitrotoluene	2.00	1.76		ug/L		88	77 - 127	7	30
2-Amino-4,6-dinitrotoluene	2.00	1.71		ug/L		86	79 - 120	13	30
2-Nitrotoluene	2.00	1.39		ug/L		70	70 - 127	16	30
3-Nitrotoluene	2.00	1.59		ug/L		79	73 - 125	19	30
4-Amino-2,6-dinitrotoluene	2.00	1.64		ug/L		82	76 - 125	10	30
4-Nitrotoluene	2.00	1.56		ug/L		78	71 - 127	19	30
HMX	2.00	1.93	M	ug/L		97	65 - 135	8	30
Nitrobenzene	2.00	1.56		ug/L		78	65 - 134	19	30
RDX	2.00	1.88		ug/L		94	68 - 130	8	30
Tetryl	2.00	1.71		ug/L		85	64 - 128	5	30

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

Lab Sample ID: LCSD 280-488301/7-A

Matrix: Water

Analysis Batch: 488648

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier						
MNX	2.33	2.18		ug/L		94	57 - 132	3	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dinitrobenzene	96		83 - 119

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 488301

QC Association Summary

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

Job ID: 280-134369-1

HPLC/IC

Prep Batch: 488301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-134369-1	WATERWC-Q2-MAR20	Total/NA	Water	3535	
MB 280-488301/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-488301/2-A	Lab Control Sample	Total/NA	Water	3535	
LCS 280-488301/6-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-488301/3-A	Lab Control Sample Dup	Total/NA	Water	3535	
LCSD 280-488301/7-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 488648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-488301/1-A	Method Blank	Total/NA	Water	8330A	488301
LCS 280-488301/2-A	Lab Control Sample	Total/NA	Water	8330A	488301
LCS 280-488301/6-A	Lab Control Sample	Total/NA	Water	8330A	488301
LCSD 280-488301/3-A	Lab Control Sample Dup	Total/NA	Water	8330A	488301
LCSD 280-488301/7-A	Lab Control Sample Dup	Total/NA	Water	8330A	488301

Analysis Batch: 488785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-134369-1	WATERWC-Q2-MAR20	Total/NA	Water	8330A	488301

Analysis Batch: 488850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-134369-1	WATERWC-Q2-MAR20	Total/NA	Water	8330A	488301

Lab Chronicle

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

Job ID: 280-134369-1

Client Sample ID: WATERWC-Q2-MAR20

Lab Sample ID: 280-134369-1

Matrix: Water

Date Collected: 03/05/20 12:00

Date Received: 03/06/20 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			480.5 mL	5 mL	488301	03/10/20 19:07	KSA	TAL DEN
Total/NA	Analysis	8330A		1			488850	03/17/20 13:34	CBB	TAL DEN
Total/NA	Prep	3535			480.5 mL	5 mL	488301	03/10/20 19:07	KSA	TAL DEN
Total/NA	Analysis	8330A		1			488785	03/16/20 18:38	CBB	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
Project/Site: Cornhusker (CHAAP)

Job ID: 280-134369-1

Laboratory: Eurofins TestAmerica, Denver

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

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

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

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

Job ID: 280-134369-1

Method	Method Description	Protocol	Laboratory
8330A	Nitroaromatics and Nitramines (HPLC)	EPA	TAL DEN
3535	Solid-Phase Extraction (SPE)	SW846	TAL DEN

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL 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: 280-134369-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
280-134369-1	WATERWC-Q2-MAR20	Water	03/05/20 12:00	03/06/20 11:15	

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 487544

Lab Sample ID: IC 280-487544/7 Client Sample ID: _____

Date Analyzed: 03/03/20 18:01 Lab File ID: 03030007.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	15.73	Baseline	beckerc	03/04/20 08:29

Lab Sample ID: IC 280-487544/8 Client Sample ID: _____

Date Analyzed: 03/03/20 18:36 Lab File ID: 03030008.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	15.79	Baseline	beckerc	03/04/20 08:29

Lab Sample ID: IC 280-487544/9 Client Sample ID: _____

Date Analyzed: 03/03/20 19:11 Lab File ID: 03030009.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	15.81	Baseline	beckerc	03/04/20 08:22

Lab Sample ID: IC 280-487544/10 Client Sample ID: _____

Date Analyzed: 03/03/20 19:46 Lab File ID: 03030010.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	15.81	Baseline	beckerc	03/04/20 08:23

Lab Sample ID: IC 280-487544/11 Client Sample ID: _____

Date Analyzed: 03/03/20 20:21 Lab File ID: 03030011.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	15.82	Baseline	beckerc	03/04/20 08:23
PETN	25.29	Baseline	beckerc	03/04/20 08:23

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 487544

Lab Sample ID: IC 280-487544/12 Client Sample ID: _____

Date Analyzed: 03/03/20 20:56 Lab File ID: 03030012.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	25.29	Baseline	beckerc	03/04/20 08:24

Lab Sample ID: IC 280-487544/13 Client Sample ID: _____

Date Analyzed: 03/03/20 21:31 Lab File ID: 03030013.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	25.30	Baseline	beckerc	03/04/20 08:24

Lab Sample ID: IC 280-487544/14 Client Sample ID: _____

Date Analyzed: 03/03/20 22:06 Lab File ID: 03030014.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Dinitrobenzene	15.56	Baseline	beckerc	03/04/20 08:28
Nitroglycerin	15.81	Baseline	beckerc	03/04/20 08:27
2-Nitrotoluene	16.58	Baseline	beckerc	03/04/20 08:28
4-Nitrotoluene	16.85	Baseline	beckerc	03/04/20 08:28
4-Amino-2,6-dinitrotoluene	17.17	Baseline	beckerc	03/04/20 08:28
3-Nitrotoluene	17.77	Baseline	beckerc	03/04/20 08:28
2-Amino-4,6-dinitrotoluene	18.01	Baseline	beckerc	03/04/20 08:28
1,3,5-Trinitrobenzene	18.91	Baseline	beckerc	03/04/20 08:28
2,6-Dinitrotoluene	19.85	Baseline	beckerc	03/04/20 08:28
2,4-Dinitrotoluene	20.31	Baseline	beckerc	03/04/20 08:28
2,4,6-Trinitrotoluene	24.71	Baseline	beckerc	03/04/20 08:27
PETN	25.47	Baseline	beckerc	03/04/20 08:27

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 487544

Lab Sample ID: ICV 280-487544/15 Client Sample ID: _____

Date Analyzed: 03/03/20 22:41 Lab File ID: 03030015.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	15.79	Baseline	beckerc	03/04/20 08:28

Lab Sample ID: IC 280-487544/19 Client Sample ID: _____

Date Analyzed: 03/04/20 01:01 Lab File ID: 03030019.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	5.40	Baseline	beckerc	03/05/20 08:43

Lab Sample ID: IC 280-487544/20 Client Sample ID: _____

Date Analyzed: 03/04/20 01:36 Lab File ID: 03030020.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	5.40	Baseline	beckerc	03/05/20 08:43

Lab Sample ID: IC 280-487544/21 Client Sample ID: _____

Date Analyzed: 03/04/20 02:11 Lab File ID: 03030021.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	5.40	Baseline	beckerc	03/05/20 08:43

Lab Sample ID: IC 280-487544/22 Client Sample ID: _____

Date Analyzed: 03/04/20 02:46 Lab File ID: 03030022.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	5.40	Baseline	beckerc	03/05/20 08:42

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 487544

Lab Sample ID: IC 280-487544/23 Client Sample ID: _____

Date Analyzed: 03/04/20 03:21 Lab File ID: 03030023.D GC Column: Luna-phenylhe ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	5.40	Baseline	beckerc	03/05/20 08:42

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA Analysis Batch Number: 488850

Lab Sample ID: CCV 280-488850/38 Client Sample ID: _____

Date Analyzed: 03/17/20 08:54 Lab File ID: 03160038.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Dinitrobenzene	15.18	Baseline	beckerc	03/17/20 10:49
Nitroglycerin	15.41	Baseline	beckerc	03/17/20 10:48
2-Nitrotoluene	16.18	Baseline	beckerc	03/17/20 10:49
4-Nitrotoluene	16.46	Baseline	beckerc	03/17/20 10:49
4-Amino-2,6-dinitrotoluene	16.68	Baseline	beckerc	03/17/20 10:49
3-Nitrotoluene	17.39	Baseline	beckerc	03/17/20 10:49
2-Amino-4,6-dinitrotoluene	17.50	Baseline	beckerc	03/17/20 10:49
1,3,5-Trinitrobenzene	18.48	Baseline	beckerc	03/17/20 10:49
2,6-Dinitrotoluene	19.38	Baseline	beckerc	03/17/20 10:49
2,4-Dinitrotoluene	19.85	Baseline	beckerc	03/17/20 10:49

Lab Sample ID: 280-134369-1 Client Sample ID: WATERWC-Q2-MAR20

Date Analyzed: 03/17/20 13:34 Lab File ID: 03160046.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene		Invalid Compound ID	beckerc	03/18/20 14:44
HMX		Invalid Compound ID	beckerc	03/18/20 14:44

Lab Sample ID: CCV 280-488850/50 Client Sample ID: _____

Date Analyzed: 03/17/20 15:54 Lab File ID: 03160050.D GC Column: Luna-phenylhe ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitroglycerin	15.43	Baseline	beckerc	03/18/20 14:46
3-Nitrotoluene	17.43	Baseline	beckerc	03/18/20 14:46
2-Amino-4,6-dinitrotoluene	17.50	Unspecified		

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 487658

Lab Sample ID: IC 280-487658/7 Client Sample ID: _____

Date Analyzed: 03/04/20 14:07 Lab File ID: 03040007.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.68	Baseline	beckerc	03/05/20 08:19

Lab Sample ID: IC 280-487658/8 Client Sample ID: _____

Date Analyzed: 03/04/20 14:30 Lab File ID: 03040008.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/05/20 08:21

Lab Sample ID: IC 280-487658/9 Client Sample ID: _____

Date Analyzed: 03/04/20 14:53 Lab File ID: 03040009.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.68	Baseline	beckerc	03/05/20 08:21

Lab Sample ID: IC 280-487658/10 Client Sample ID: _____

Date Analyzed: 03/04/20 15:16 Lab File ID: 03040010.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.68	Baseline	beckerc	03/05/20 08:21

Lab Sample ID: IC 280-487658/11 Client Sample ID: _____

Date Analyzed: 03/04/20 15:39 Lab File ID: 03040011.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.68	Baseline	beckerc	03/05/20 08:22

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 487658

Lab Sample ID: IC 280-487658/12 Client Sample ID: _____

Date Analyzed: 03/04/20 16:01 Lab File ID: 03040012.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.68	Baseline	beckerc	03/05/20 08:22

Lab Sample ID: IC 280-487658/13 Client Sample ID: _____

Date Analyzed: 03/04/20 16:24 Lab File ID: 03040013.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.68	Baseline	beckerc	03/05/20 08:22

Lab Sample ID: IC 280-487658/14 Client Sample ID: _____

Date Analyzed: 03/04/20 16:47 Lab File ID: 03040014.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.68	Baseline	beckerc	03/05/20 08:23
2-Amino-4,6-dinitrotoluene	11.62	Baseline	beckerc	03/05/20 08:23
2,6-Dinitrotoluene	11.79	Unspecified		

Lab Sample ID: ICV 280-487658/15 Client Sample ID: _____

Date Analyzed: 03/04/20 17:10 Lab File ID: 03040015.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.68	Baseline	beckerc	03/05/20 08:23

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1

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.: 280-134369-1

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.: 280-134369-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 487658Lab 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.: 280-134369-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 488648

Lab Sample ID: CCV 280-488648/7 Client Sample ID: _____

Date Analyzed: 03/13/20 15:43 Lab File ID: 03130007.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/16/20 10:41

Lab Sample ID: CCV 280-488648/9 Client Sample ID: _____

Date Analyzed: 03/13/20 16:29 Lab File ID: 03130009.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.60	Baseline	beckerc	03/16/20 10:42
DNX	6.92	Baseline	beckerc	03/16/20 10:42

Lab Sample ID: MB 280-488301/1-A Client Sample ID: _____

Date Analyzed: 03/13/20 16:52 Lab File ID: 03130010.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX		Invalid Compound ID	beckerc	03/16/20 10:47

Lab Sample ID: LCS 280-488301/2-A Client Sample ID: _____

Date Analyzed: 03/13/20 17:15 Lab File ID: 03130011.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/16/20 10:48

Lab Sample ID: LCSD 280-488301/3-A Client Sample ID: _____

Date Analyzed: 03/13/20 17:38 Lab File ID: 03130012.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.68	Baseline	beckerc	03/16/20 10:50

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 488648Lab Sample ID: CCV 280-488648/20 Client Sample ID: _____Date Analyzed: 03/13/20 20:41 Lab File ID: 03130020.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/16/20 10:54
1,3-Dinitrobenzene	9.55	Unspecified		
Nitrobenzene	9.93	Baseline	beckerc	03/16/20 10:54

Lab Sample ID: CCV 280-488648/22 Client Sample ID: _____Date Analyzed: 03/13/20 21:27 Lab File ID: 03130022.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/16/20 10:55
DNX	6.92	Baseline	beckerc	03/16/20 10:55

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 488785

Lab Sample ID: CCV 280-488785/26 Client Sample ID: _____

Date Analyzed: 03/16/20 17:29 Lab File ID: 03160026.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HMX	6.69	Baseline	beckerc	03/17/20 11:42

Lab Sample ID: CCV 280-488785/28 Client Sample ID: _____

Date Analyzed: 03/16/20 18:15 Lab File ID: 03160028.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.59	Baseline	beckerc	03/17/20 11:43
DNX	6.92	Baseline	beckerc	03/17/20 11:43

Lab Sample ID: 280-134369-1 Client Sample ID: WATERWC-Q2-MAR20

Date Analyzed: 03/16/20 18:38 Lab File ID: 03160029.D GC Column: UltraCarb5uOD ID: 4.6(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
MNX	7.35	Baseline	beckerc	03/17/20 11:44
RDX	7.73	Baseline	beckerc	03/17/20 11:44
1,2-Dinitrobenzene	8.71	Baseline	beckerc	03/17/20 11:45
1,3,5-Trinitrobenzene		Invalid Compound ID	beckerc	03/17/20 11:45
1,3-Dinitrobenzene		Invalid Compound ID	beckerc	03/17/20 11:45
4-Nitrotoluene		Invalid Compound ID	beckerc	03/17/20 11:46
Nitrobenzene		Invalid Compound ID	beckerc	03/17/20 11:45
4-Amino-2,6-dinitrotoluene	11.35	Baseline	beckerc	03/17/20 11:46

HPLC/IC MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1

SDG No.: _____

Instrument ID: CHHPLC_X3 Analysis Batch Number: 488785

Lab Sample ID: CCV 280-488785/38 Client Sample ID: _____

Date Analyzed: 03/16/20 22:04 Lab File ID: 03160038.D GC Column: UltraCarb5uOD ID: 4.6 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
TNX	6.60	Baseline	beckerc	03/17/20 11:49
DNX	6.92	Baseline	beckerc	03/17/20 11:49

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-134369-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration			
					Reagent ID	Volume Added					
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 LCS_00094	04/03/20	10/03/19	Acetonitrile, Lot ACN_00039	100 mL	8330 LCSMix2_00105	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			
					EXP-SS-MIX1_00008	1 mL	Tetryl	10 ug/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			
.8330 LCSMix2_00105	08/07/23	Restek, Lot A0141002			(Purchased Reagent)		Nitrobenzene	10 ug/mL			
							RDX	10 ug/mL			
.EXP-SS-MIX1_00008	07/31/24	Restek, Lot A0151407			(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			
							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			
8330 LCS_00095	07/24/20	01/24/20	Acetonitrile, Lot ACN_00231	100 mL	8330_NG_Stk_00081	1 mL	Nitroglycerin	100 ug/mL			
					8330_NG_Stk_00082	1 mL	Nitroglycerin	100 ug/mL			
					8330_PETN_Stk_00089	1 mL	PETN	100 ug/mL			
					8330_PETN_Stk_00090	1 mL	PETN	100 ug/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			

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-134369-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					8330LCSmix2_00009	1 mL	RDX	10 ug/mL
					PicricARestek_00086	1 mL	2,6-Dinitrotoluene	10 ug/mL
.8330 NG Stk 00081	08/31/22	Restek, Lot A0151571			(Purchased Reagent)		2-Amino-4,6-dinitrotoluene	10 ug/mL
.8330 NG_Stk_00082	08/31/22	Restek, Lot A0151571			(Purchased Reagent)		2-Nitrotoluene	10 ug/mL
.8330 PETN Stk 00089	11/30/22	Restek, Lot A0154763			(Purchased Reagent)		3-Nitrotoluene	10 ug/mL
.8330_PETN_Stk_00090	11/30/22	Restek, Lot A0154763			(Purchased Reagent)		4-Amino-2,6-dinitrotoluene	10 ug/mL
.8330LCSMix1_00113	07/31/24	Restek, Lot A0151407			(Purchased Reagent)		4-Nitrotoluene	10 ug/mL
							Tetryl	10 ug/mL
							2,4,6-Trinitrophenol	10 ug/mL
							Nitroglycerin	5000 ug/mL
							Nitroglycerin	5000 ug/mL
							PETN	5000 ug/mL
							PETN	5000 ug/mL
							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
							Tetryl	1000 ug/mL
.PicricARestek_00086	11/30/23	Restek, Lot A0148431			(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
8330_OP_DMT_00005	03/31/20	01/21/20 Acetonitrile, Lot 00226	10 mL	MNX,TNX, DNX_00036	1 mL	MNX		11.67 ug/mL
.MNX, TNX, DNX_00036	12/31/19	ULTRA Scientific, Lot CS-5628		(Purchased Reagent)		MNX		116.7 ug/mL
8330_OP_DMT_00006	02/24/21	02/24/20 Acetonitrile, Lot 0000196715	10 mL	MNX, TNX, DNX_00042	1 mL	DNX		10.01 ug/mL
						MNX		11.67 ug/mL
						TNX		10.01 ug/mL
.MNX, TNX, DNX_00042	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-134369-1

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_00109	03/20/20	09/20/19	Acetonitrile, Lot ACN_00223	250 mL	8330SurrStkSS_00147	0.5 mL	1,2-Dinitrobenzene	10 ug/mL
					8330SurrStkSS_00155	1 mL	1,2-Dinitrobenzene	10 ug/mL
					8330SurrStkSS_00158	1 mL	1,2-Dinitrobenzene	10 ug/mL
.8330SurrStkSS_00147	03/31/23	Restek, Lot A0135839			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-134369-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
.8330SurrStkSS_00155	07/31/23		Restek, Lot A0139489		(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL	
.8330SurrStkSS_00158	07/31/24		Restek, Lot A0146866		(Purchased Reagent)		1,2-Dinitrobenzene	1000 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	
							1,2-Dinitrobenzene (Surr)	10 ug/mL	
					8330SurrStkSS_00158	0.25 mL	1,2-Dinitrobenzene	10 ug/mL	
							1,2-Dinitrobenzene (Surr)	10 ug/mL	
					8330SurrStkSS_00160	1 mL	1,2-Dinitrobenzene	10 ug/mL	
							1,2-Dinitrobenzene (Surr)	10 ug/mL	
.8330SurrStkSS_00145	03/31/23	Restek, Lot A0135839			(Purchased Reagent)		1,2-Dinitrobenzene	1000 ug/mL	
							1,2-Dinitrobenzene (Surr)	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	
							1,2-Dinitrobenzene (Surr)	1000 ug/mL	

Reagent

8330 LCSMx2_00105



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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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

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	Tetryl CAS # 479-45-8 Purity 99%	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
			+/- 54.7830	µg/mL	Unstressed
			+/- 63.8824	µg/mL	Stressed
2	4-Amino-2,6-dinitrotoluene CAS # 19406-51-0 Purity 99%	1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
			+/- 54.8926	µg/mL	Unstressed
			+/- 64.0101	µg/mL	Stressed
3	2-Amino-4,6-dinitrotoluene CAS # 35572-78-2 Purity 98%	1,007.4 µg/mL	+/- 5.9839	µg/mL	Gravimetric
			+/- 55.1906	µg/mL	Unstressed
			+/- 64.3577	µg/mL	Stressed
4	2,6-Dinitrotoluene CAS # 606-20-2 Purity 99%	1,000.0 µg/mL	+/- 5.9397	µg/mL	Gravimetric
			+/- 54.7830	µg/mL	Unstressed
			+/- 63.8824	µg/mL	Stressed
5	2-Nitrotoluene CAS # 88-72-2 Purity 99%	1,004.0 µg/mL	+/- 5.9635	µg/mL	Gravimetric
			+/- 55.0021	µg/mL	Unstressed
			+/- 64.1379	µg/mL	Stressed
6	4-Nitrotoluene CAS # 99-99-0 Purity 99%	1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
			+/- 54.8926	µg/mL	Unstressed
			+/- 64.0101	µg/mL	Stressed
7	3-Nitrotoluene CAS # 99-08-1 Purity 98%	1,003.5 µg/mL	+/- 5.9606	µg/mL	Gravimetric
			+/- 54.9758	µg/mL	Unstressed
			+/- 64.1072	µg/mL	Stressed

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

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

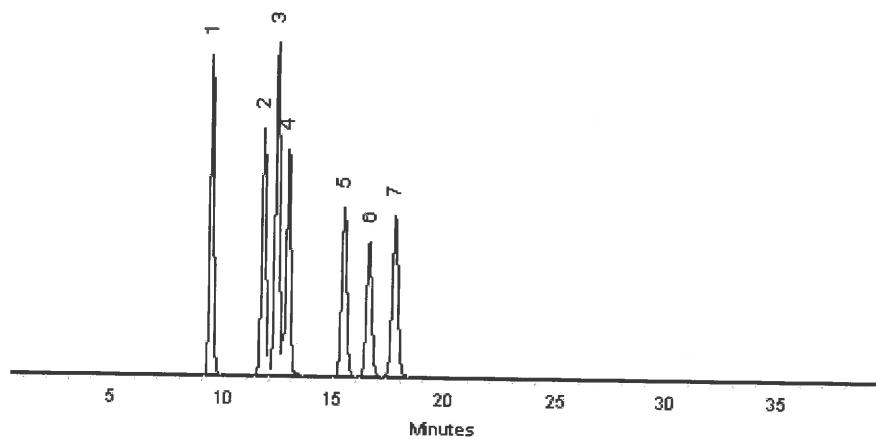
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

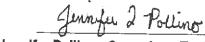
Det. Type:
Wavelength: 210 nm



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: 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



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.



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

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

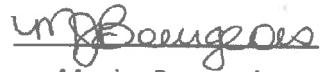
Expiration Date: 31-Mar-2022

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_Stk_00075



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Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL



Certificate of Composition



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 5,000 μ g/mL, Acetonitrile, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : August 31, 2022

Storage: 10°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	Nitroglycerin CAS # 55-63-0 Purity 99%	5,036.0 μ g/mL	+/- 46.8321 μ g/mL +/- 278.2306 μ g/mL +/- 323.7234 μ g/mL	Gravimetric Unstressed Stressed

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

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

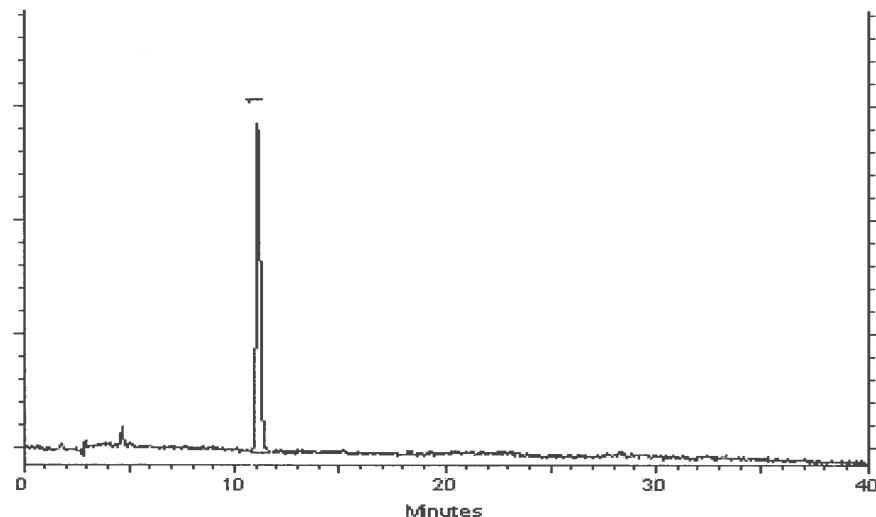
Flow Rate:
1.0 ml/min.

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

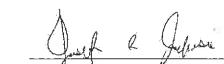
Mobile Phase B:

Mobile Phase Composition:
100%A

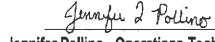
Det. Type:
Wavelength: 210 nm



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.


Joseph Jaglowski - Mix Technician

Date Mixed: 05-Aug-2019 Balance: B707717271


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_NG_Stk_00081



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Certificate of Composition



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 5,000 μ g/mL, Acetonitrile, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : August 31, 2022

Storage: 10°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	Nitroglycerin CAS # 55-63-0 Purity 99%	5,036.0 μ g/mL	+/- 46.8321 μ g/mL +/- 278.2306 μ g/mL +/- 323.7234 μ g/mL	Gravimetric Unstressed Stressed

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

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

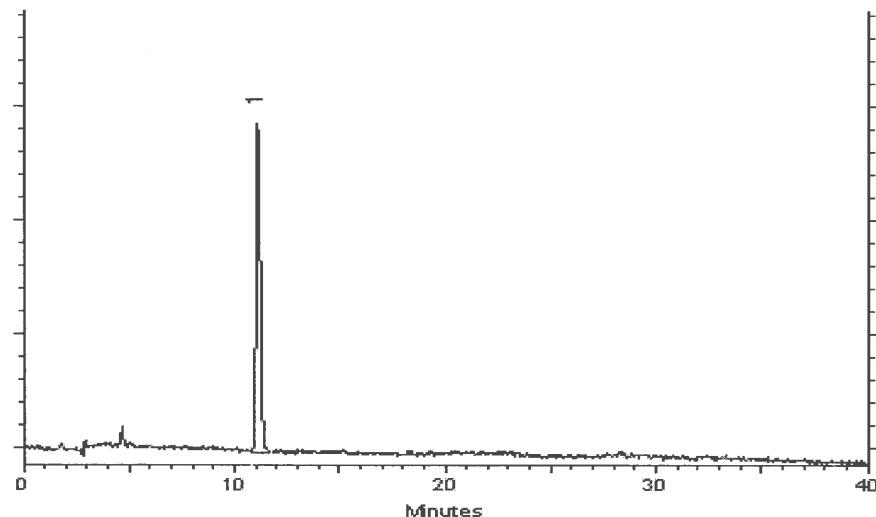
Flow Rate:
1.0 ml/min.

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.

Joseph R Jagiowski
Joseph/Jagiowski - 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_NG_Stk_00082



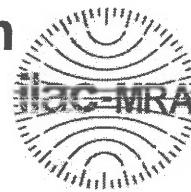
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Certificate of Composition



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 5,000 μ g/mL, Acetonitrile, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : August 31, 2022

Storage: 10°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	Nitroglycerin CAS # 55-63-0 Purity 99%	5,036.0 μ g/mL	+/- 46.8321 μ g/mL	+/- 278.2306 μ g/mL	+/- 323.7234 μ g/mL

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

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

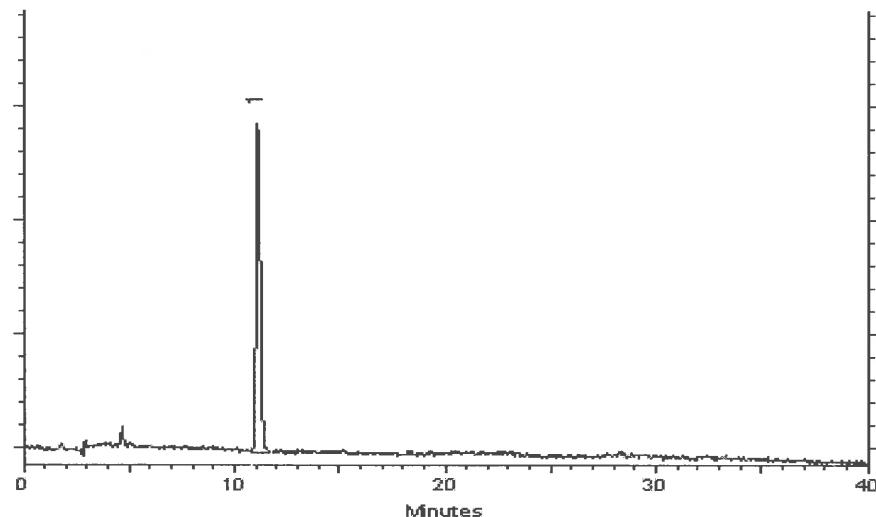
Flow Rate:
1.0 ml/min.

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

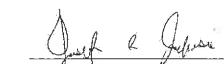
Mobile Phase B:

Mobile Phase Composition:
100%A

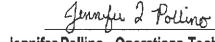
Det. Type:
Wavelength: 210 nm



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 Jaglowski - Mix Technician

Date Mixed: 05-Aug-2019 Balance: B707717271


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_00087



CERTIFIED REFERENCE MATERIAL

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Certificate of Composition



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 5,000 μ g/mL, Acetonitrile, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : November 30, 2022

Storage: 10°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	PETN CAS # 78-11-5 Purity 99%	5,024.0 μ g/mL	+/- 46.7205 μ g/mL	+/- 277.5676 μ g/mL	+/- 322.9521 μ g/mL

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

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

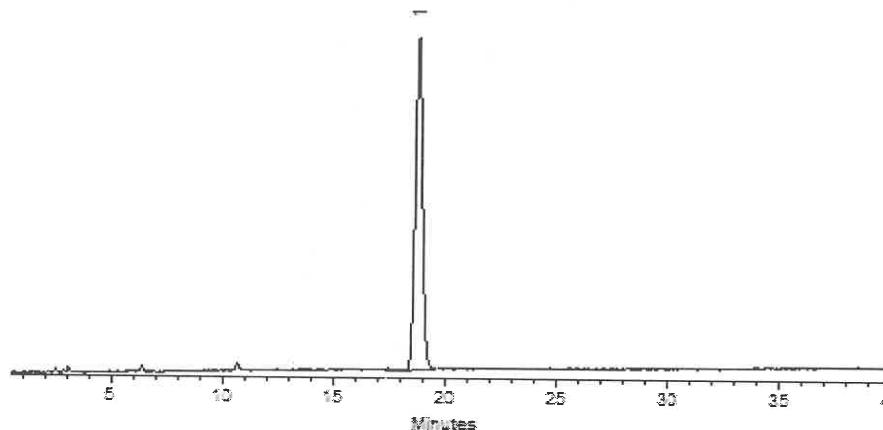
Flow Rate:
1.0 ml/min.

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
Clara Windle - Operations Technician I

Date Mixed: 05-Nov-2019 Balance: B442140311

Jennifer J Pollino
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

8330_PETN_Stk_00089



CERTIFIED REFERENCE MATERIAL

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Fax: (814)353-1309

www.restek.com



Certificate of Composition



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 5,000 μ g/mL, Acetonitrile, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : November 30, 2022

Storage: 10°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	PETN CAS # 78-11-5 Purity 99%	5,024.0 μ g/mL	+/- 46.7205 μ g/mL	+/- 277.5676 μ g/mL	+/- 322.9521 μ g/mL

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

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

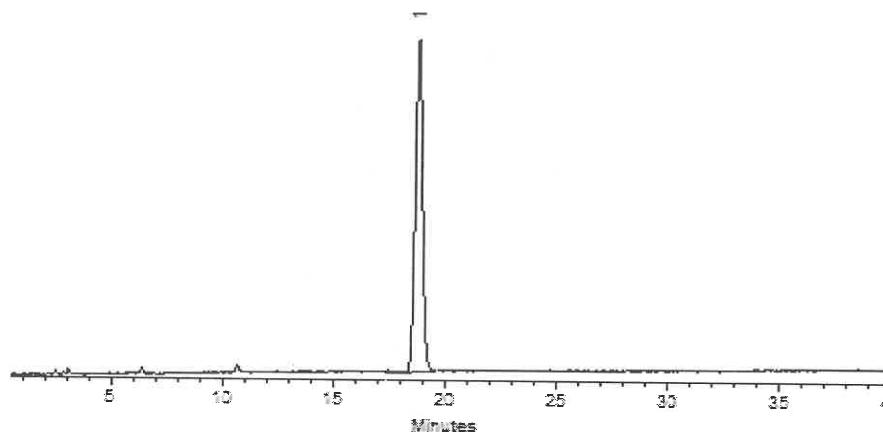
Flow Rate:
1.0 ml/min.

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
Clara Windle - Operations Technician I

Date Mixed: 05-Nov-2019 Balance: B442140311

Jennifer J Pollino
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

8330_PETN_Stk_00090



CERTIFIED REFERENCE MATERIAL

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

www.restek.com



Certificate of Composition



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 5,000 μ g/mL, Acetonitrile, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : November 30, 2022

Storage: 10°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	PETN CAS # 78-11-5 Purity 99%	5,024.0 μ g/mL	+/- 46.7205 μ g/mL	+/- 277.5676 μ g/mL	+/- 322.9521 μ g/mL

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

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

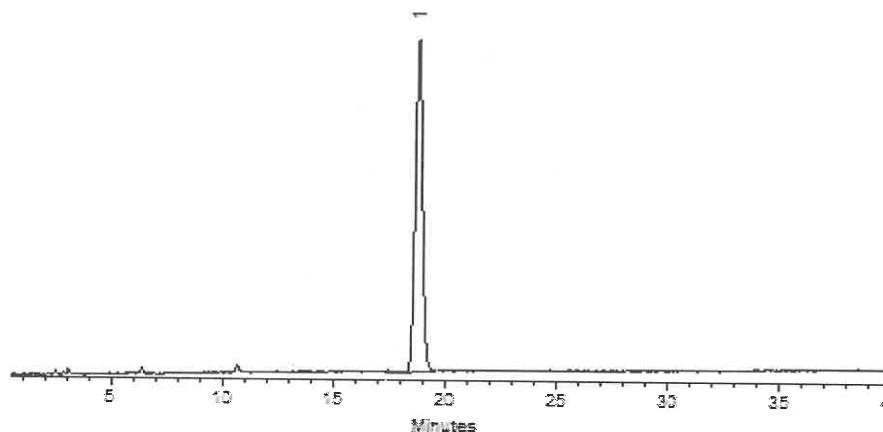
Flow Rate:
1.0 ml/min.

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
Clara Windle - Operations Technician I

Date Mixed: 05-Nov-2019 Balance: B442140311

Jennifer J Pollino
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_00113****



CERTIFIED REFERENCE MATERIAL

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

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Certificate of Analysis



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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.: 31450

Lot No.: A0151407

Description : 8330 Calibration Mix #1

8330 Calibration Std #1 1000 μ g/mL, Acetonitrile, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2024

Storage: 10°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	HMX CAS # 2691-41-0 Purity 97%	1,004.9 μ g/mL (Lot 190402JLM)	+/- 5.9689 μ g/mL	+/- 55.0525 μ g/mL	Gravimetric Unstressed Stressed
2	RDX CAS # 121-82-4 Purity 99%	1,005.0 μ g/mL (Lot 080228JLM)	+/- 5.9694 μ g/mL	+/- 55.0569 μ g/mL	Gravimetric Unstressed Stressed
3	1,3,5-Trinitrobenzene CAS # 99-35-4 Purity 97%	1,003.0 μ g/mL (Lot DJ5QO)	+/- 5.9574 μ g/mL	+/- 54.9463 μ g/mL	Gravimetric Unstressed Stressed
4	1,3-Dinitrobenzene CAS # 99-65-0 Purity 99%	1,001.0 μ g/mL (Lot BCBN4329V)	+/- 5.9456 μ g/mL	+/- 54.8378 μ g/mL	Gravimetric Unstressed Stressed
5	Nitrobenzene CAS # 98-95-3 Purity 99%	1,001.0 μ g/mL (Lot SHBJ3622)	+/- 5.9456 μ g/mL	+/- 54.8378 μ g/mL	Gravimetric Unstressed Stressed
6	2,4,6-Trinitrotoluene CAS # 118-96-7 Purity 99%	1,005.0 μ g/mL (Lot 5737200)	+/- 5.9694 μ g/mL	+/- 55.0569 μ g/mL	Gravimetric Unstressed Stressed
7	2,4-Dinitrotoluene CAS # 121-14-2 Purity 99%	1,001.0 μ g/mL (Lot MKAA0690)	+/- 5.9456 μ g/mL	+/- 54.8378 μ g/mL	Gravimetric Unstressed Stressed

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

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

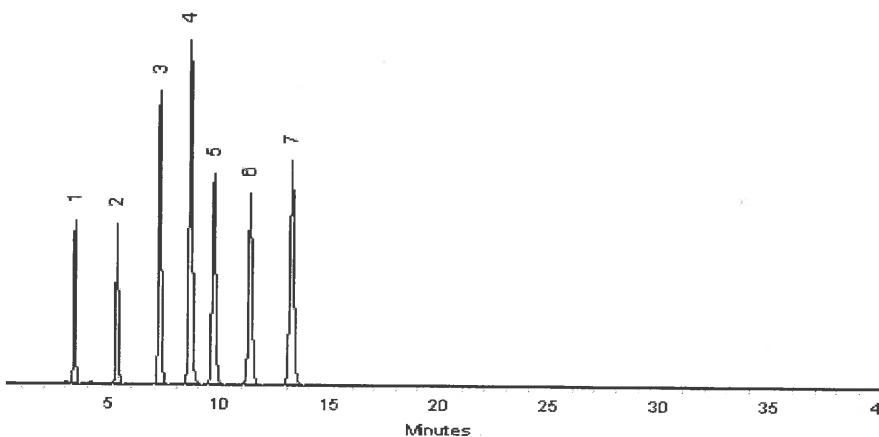
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

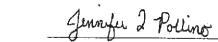
Det. Type:
Wavelength: 210 nm



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: 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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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31451

Lot No.: A0149387

Description : 8330 Calibration Mix #2

8330 Calibration Std #2 1000 μ g/mL, Acetonitrile, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : May 31, 2024

Storage: 10°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	Tetryl CAS # 479-45-8 Purity 99%	1,004.0 μ g/mL	+/- 5.9635 μ g/mL	+/- 55.0021 μ g/mL	Gravimetric Unstressed Stressed
2	4-Amino-2,6-dinitrotoluene CAS # 19406-51-0 Purity 99%	1,000.0 μ g/mL	+/- 5.9397 μ g/mL	+/- 54.7830 μ g/mL	Gravimetric Unstressed Stressed
3	2-Amino-4,6-dinitrotoluene CAS # 35572-78-2 Purity 98%	999.6 μ g/mL	+/- 5.9373 μ g/mL	+/- 54.7611 μ g/mL	Gravimetric Unstressed Stressed
4	2,6-Dinitrotoluene CAS # 606-20-2 Purity 99%	1,004.0 μ g/mL	+/- 5.9635 μ g/mL	+/- 55.0021 μ g/mL	Gravimetric Unstressed Stressed
5	2-Nitrotoluene CAS # 88-72-2 Purity 99%	1,010.0 μ g/mL	+/- 5.9991 μ g/mL	+/- 55.3308 μ g/mL	Gravimetric Unstressed Stressed
6	4-Nitrotoluene CAS # 99-99-0 Purity 99%	1,006.0 μ g/mL	+/- 5.9753 μ g/mL	+/- 55.1117 μ g/mL	Gravimetric Unstressed Stressed
7	3-Nitrotoluene CAS # 99-08-1 Purity 98%	1,007.4 μ g/mL	+/- 5.9839 μ g/mL	+/- 55.1906 μ g/mL	Gravimetric Unstressed Stressed

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

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

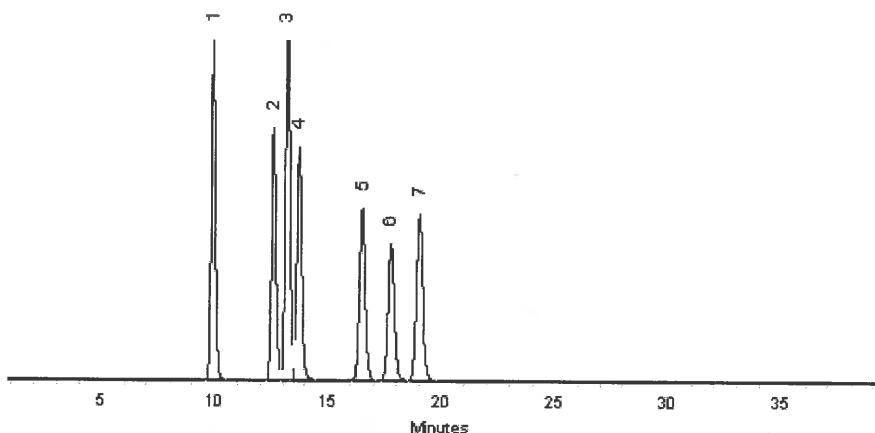
Flow Rate:
1.0 ml/min.

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.

Jane Kibe
Jane Kibe - Mix Technician

Date Mixed: 21-May-2019 Balance: 1127510105

Jennifer J Pollino
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

8330PASTkPS_00061



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



Component	CAS #	Purity % (HPLC)	Prepared Concentration ² (μ g/mL)	Certified Analyte Concentration ¹ (μ g/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 $\pm 2.4\%$. 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.

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: edoces@accustandard.com

1.4 - Emergency Telephone Number

Emergency Phone #: AccuStandard, Inc.
1-203-502-7070 (USA)
+01-203-502-7070 (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)
- H360 - Overexposure may cause dizziness, nausea, muscle weakness, narcosis and respiratory failure.

SECTION 3 - COMPOSITION / ANALYTICS DATA

Description: Picric Acid in Acetonitrile/Methanol Blend

Analyte	CAS #	% Concentration	ACGIH-TLV (mg/m ³)			OSHA-PEL (mg/m ³)		
			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		

P202 - This product should only be used by persons trained in the safe handling of hazardous chemicals.

P233 - Store in a tightly closed container. (P404)

AccuStandard Inc.

SAFETY DATA SHEET

Catalog Number: M-8330-ADD-3

SECTION 2 - HAZARDS IDENTIFICATION - continued

2.1 - GHS Label Elements - continued

P260 - Do not breathe vapor.

P262 - Do not get in eyes or 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(EL)), 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 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. Assume 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 membranes 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

Description: Picric Acid in Acetonitrile/Methanol Blend

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 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
SECTION 14 - TRANSPORT INFORMATION

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.

Transportation Information (DOT/HAZARD)
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 CHIP's regulations. Chemicals are classified using the Globally Harmonized System for Classification and Labelling 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 manufacturer's 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/INFPA 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



Reagent ID: 8330Surrogate_00110

Description: 10ug/mL 1,2-Dinitrobenzene
 No. of Bottles: 1
 Storage Location: Explosives Prep
 Reagent Volume: 250.000 mL
 Creation Date: 12/17/2019
 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. Muliply recipe as needed.

Expiration Date: 05/17/2020
 Laboratory: Eurofins TestAmerica, Denver
 Prepared By: Bourgery, David F
 Solvent: Acetonitrile
 Solvent Lot: ACN_00223

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_001431453, 1000ug/mL 5 Restek 1,2-DNB SS	ASTD	03/31/23	Restek	A0135839	31453	0.25000	mL	
8330SurrStkSS_001531453, 1000ug/mL 8 Restek 1,2-DNB SS	ASTD	07/31/24	Restek	A0146866	31453	0.25000	mL	
8330SurrStkSS_001631453, 1000ug/mL 0 Restek 1,2-DNB SS	ASTD	07/31/24	Restek	A0150790	31453	1.00000	mL	
8330SurrStkSS_001631453, 1000ug/mL 1 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

8330SurrStkSS_00145



CERTIFIED REFERENCE MATERIAL

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



Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 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

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	1,2-Dinitrobenzene CAS # 528-29-0 Purity 99%	1,000.0 µg/mL (Lot MKBW2921V)	+/- 5.9397 µg/mL	+/- 56.0822 µg/mL	Gravimetric Unstressed Stressed

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

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

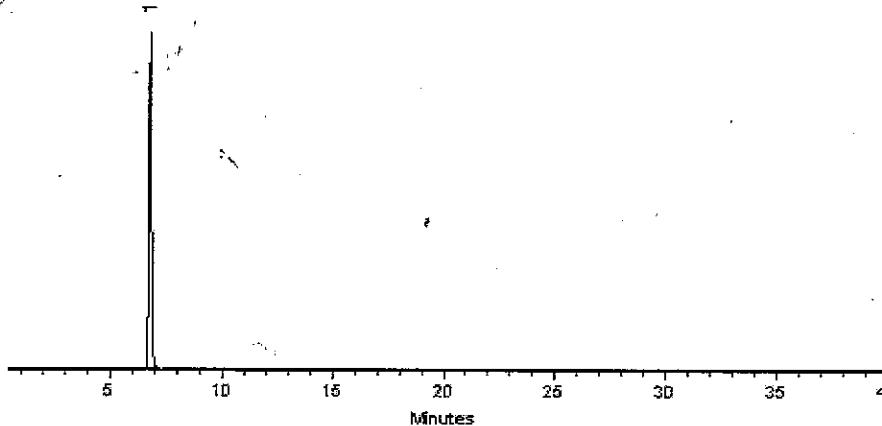
Flow Rate:
1.0 ml/min.

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.

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

Certified Uncertainty Value Notes:

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

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

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

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at [| 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 |](http://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.</div><div data-bbox=)

- 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 [### Manufacturing Notes:](http://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.</div><div data-bbox=)

- 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_00147



CERTIFIED REFERENCE MATERIAL

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



Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 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

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	1,2-Dinitrobenzene CAS # 528-29-0 Purity 99%	1,000.0 µg/mL (Lot MKBW2921V)	+/- 5.9397 µg/mL	+/- 56.0822 µg/mL	Gravimetric Unstressed Stressed

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

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

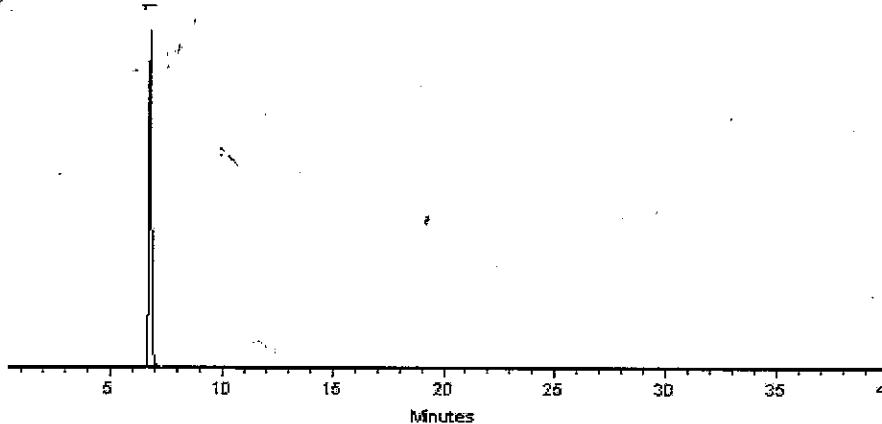
Flow Rate:
1.0 ml/min.

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.

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

Certified Uncertainty Value Notes:

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

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

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

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at [| 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 |](http://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.</div><div data-bbox=)

- 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 [### Manufacturing Notes:](http://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.</div><div data-bbox=)

- 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_00155



CERTIFIED REFERENCE MATERIAL

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

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 31453

Lot No.: A0139489

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, 2023

Storage: 10°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	1,2-Dinitrobenzene CAS # 528-29-0 Purity 99%	1,001.0 µg/mL (Lot MKBW2921V)	+/- 5.9456	µg/mL	Gravimetric
			+/- 56.1383	µg/mL	Unstressed
			+/- 57.4512	µg/mL	Stressed

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 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:

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

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

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at [| 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 |](http://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.</div><div data-bbox=)

- 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 [### Manufacturing Notes:](http://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.</div><div data-bbox=)

- 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:

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Column:

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

Flow Rate:

1.0 ml/min.

Mobile Phase A:

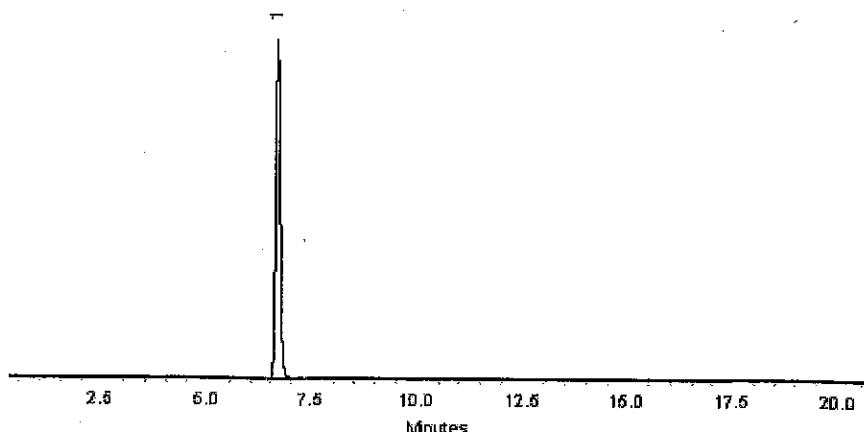
water:methanol (44:56 V/V)

Mobile Phase B:**Mobile Phase Composition:**

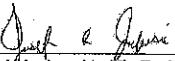
100%A

Det. Type:

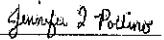
Wavelength: 210 nm



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Joseph Jaglowski - Mix Technician

Date Mixed: 10-Jul-2018 Balance: B707717271


Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 17-Jul-2018

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

8330SurrStkSS_00158

RESTEK® CERTIFIED REFERENCE MATERIAL

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www.restek.com



Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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

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	1,2-Dinitrobenzene CAS # 528-29-0 Purity 99%	1,003.0 µg/mL (Lot MKCH6067)	+/- 5.9575 µg/mL	+/- 56.2504 µg/mL	+/- 57.5660 µg/mL

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

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

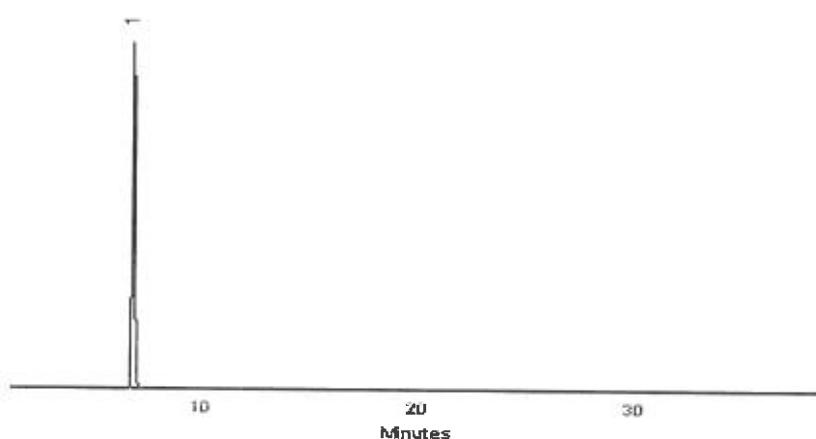
Flow Rate:
1.0 ml/min.

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.

[Signature]
Walker Workman - Operations Technician I

Date Mixed: 12-Jul-2019 Balance: 1128360905

[Signature]
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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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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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

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	1,2-Dinitrobenzene CAS # 528-29-0 Purity 99%	1,003.0 µg/mL (Lot MKCH6067)	+/- 5.9575 µg/mL	+/- 56.2504 µg/mL	+/- 57.5660 µg/mL

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

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

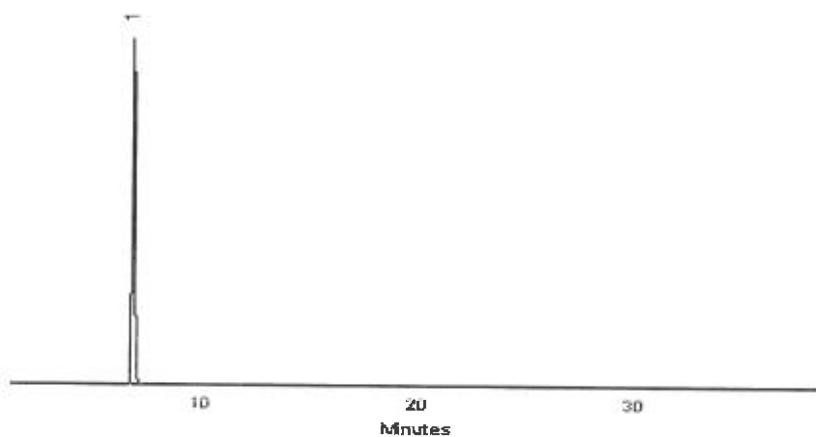
Flow Rate:
1.0 ml/min.

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.

[Signature]
Walker Workman - Operations Technician I

Date Mixed: 12-Jul-2019 Balance: 1128360905

[Signature]
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

RESTEK® CERTIFIED REFERENCE MATERIAL

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 Bellefonte, PA 16823-8812
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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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

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	1,2-Dinitrobenzene CAS # 528-29-0 Purity 99%	1,003.0 µg/mL (Lot MKCH6067)	+/- 5.9575 µg/mL	+/- 56.2504 µg/mL	+/- 57.5660 µg/mL

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

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

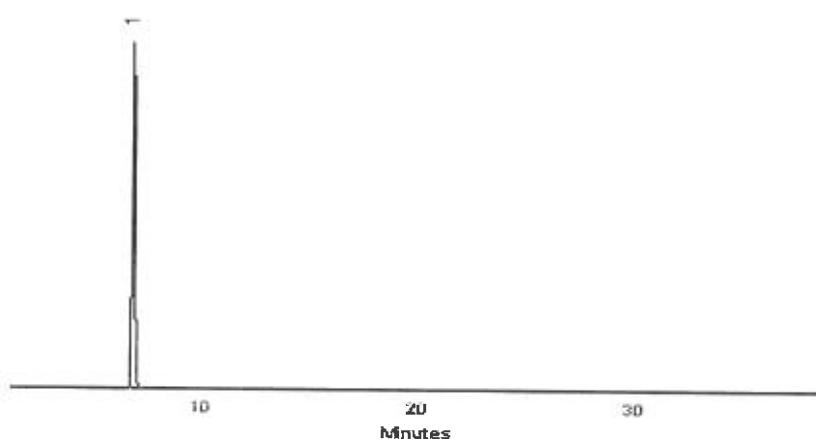
Flow Rate:
1.0 ml/min.

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.

[Signature]
Walker Workman - Operations Technician I

Date Mixed: 12-Jul-2019 Balance: 1128360905

[Signature]
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

8330SurrStock_00164



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 %	Prepared Concentration ¹ (GC/FID) (μ g/mL)	Certified Analyte Concentration ² (μ g/mL)
1,2-Dinitrobenzene	528-29-0	100.0	100.1	1001

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.

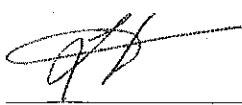
¹ All weights are traceable through NIST, Test No. 822-275872-11

² Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is $\pm 0.24\%$. The CRM Uncertainty calculated for this product is $\pm 5\%$. 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

Reagent

EXP-SS-MIX1_00008



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

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CERTIFIED REFERENCE MATERIAL



Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 31450

Lot No.: A0151407

Description : 8330 Calibration Mix #1

8330 Calibration Std #1 1000 μ g/mL, Acetonitrile, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2024

Storage: 10°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	HMX CAS # 2691-41-0 Purity 97%	1,004.9 μ g/mL (Lot 190402JLM)	+/- 5.9689 +/- 55.0525 +/- 64.1967	μ g/mL μ g/mL μ g/mL	Gravimetric Unstressed Stressed
2	RDX CAS # 121-82-4 Purity 99%	1,005.0 μ g/mL (Lot 080228JLM)	+/- 5.9694 +/- 55.0569 +/- 64.2018	μ g/mL μ g/mL μ g/mL	Gravimetric Unstressed Stressed
3	1,3,5-Trinitrobenzene CAS # 99-35-4 Purity 97%	1,003.0 μ g/mL (Lot DJ5QO)	+/- 5.9574 +/- 54.9463 +/- 64.0727	μ g/mL μ g/mL μ g/mL	Gravimetric Unstressed Stressed
4	1,3-Dinitrobenzene CAS # 99-65-0 Purity 99%	1,001.0 μ g/mL (Lot BCBN4329V)	+/- 5.9456 +/- 54.8378 +/- 63.9463	μ g/mL μ g/mL μ g/mL	Gravimetric Unstressed Stressed
5	Nitrobenzene CAS # 98-95-3 Purity 99%	1,001.0 μ g/mL (Lot SHBJ3622)	+/- 5.9456 +/- 54.8378 +/- 63.9463	μ g/mL μ g/mL μ g/mL	Gravimetric Unstressed Stressed
6	2,4,6-Trinitrotoluene CAS # 118-96-7 Purity 99%	1,005.0 μ g/mL (Lot 5737200)	+/- 5.9694 +/- 55.0569 +/- 64.2018	μ g/mL μ g/mL μ g/mL	Gravimetric Unstressed Stressed
7	2,4-Dinitrotoluene CAS # 121-14-2 Purity 99%	1,001.0 μ g/mL (Lot MKAA0690)	+/- 5.9456 +/- 54.8378 +/- 63.9463	μ g/mL μ g/mL μ g/mL	Gravimetric Unstressed Stressed

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

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

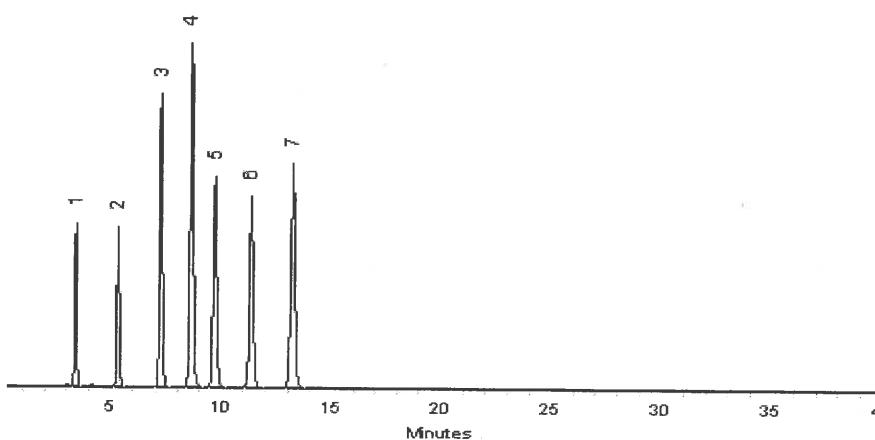
Flow Rate:
1.0 ml/min.

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

Mobile Phase B:

Mobile Phase Composition:
100%A

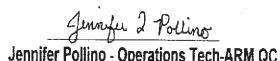
Det. Type:
Wavelength: 210 nm



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: 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

MNX , TNX , DNX_00032



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.

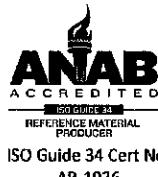
Analyte	CAS#	Analyte Lot	True Value
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)		RM12428	100.3 ± 0.5 µg/mL
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane		RM12428	100.1 ± 0.5 µg/mL
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane		RM12428	116.7 ± 0.6 µg/mL

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



Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System



ORG ver 1.1

Reagent

MNX , TNX , DNX_00036



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.

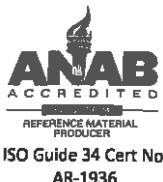
Analyte	CAS#	Analyte Lot	True Value
1,3,5-trinitroso-1,3,5-triazacyclohexane (TNX)		RM12428	$100.3 \pm 0.5 \mu\text{g/mL}$
1-nitro-3,5-dinitroso-1,3,5-triazacyclohexane		RM12428	$100.1 \pm 0.5 \mu\text{g/mL}$
1-nitroso-3,5-dinitro-1,3,5-triazacyclohexane		RM12428	$116.7 \pm 0.6 \mu\text{g/mL}$

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



Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System



ISO Guide 34 Cert No.
AR-1936

ISO17025 Cert No.
AT-1937

Reagent

MNX , TNX , DNX_00042



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.



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: 1 of 2

www.agilent.com/quality/
CSD-QA-015.1



ISO 17025 Cert
No. AT-1937

Certificate of Analysis

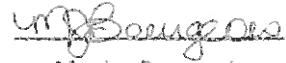
Product Number: CUS-23984

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

PicricARestek_00086



CERTIFIED REFERENCE MATERIAL

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

www.restek.com



Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 31499

Lot No.: A0148431

Description : Picric Acid Standard

Picric Acid Standard 1000 μ g/mL, Methanol, 1mL/1000 μ g/mL *PGI BOX
REQUIRED* SHIP FED EX GROUND ONLY

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : April 30, 2024

Storage: 10°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	Picric Acid CAS # 88-89-1 Purity 97%	1,001.0 μ g/mL	+/- 5.9459 μ g/mL	+/- 54.8400 μ g/mL	Gravimetric Unstressed Stressed

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

Specific Reference Material Notes:

This is a derivatized analysis.

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

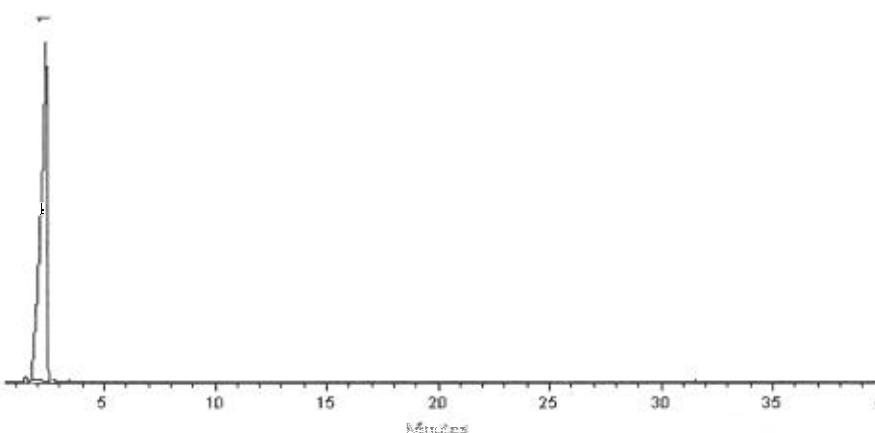
Flow Rate:
1.0 ml/min.

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: 22-Apr-2019 Balance: 1127510105

Jennifer J. Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 25-Apr-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

8330A DOD5

Nitroaromatics and Nitramines (HPLC)

FORM II
HPLC/IC SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1

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 #
WATERWC-Q2-MAR20	280-134369-1		49 Q
WATERWC-Q2-MAR20	280-134369-1	97 M	
	MB 280-488301/1-A	88	
	LCS 280-488301/2-A	85	
	LCS 280-488301/6-A	89	
	LCSD 280-488301/3-A	91	
	LCSD 280-488301/7-A	96	

12DNB = 1,2-Dinitrobenzene

QC LIMITS
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.: 280-134369-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 03130011.D
Lab ID: LCS 280-488301/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	2.00	1.75	88	73-125	
1,3-Dinitrobenzene	2.00	1.59	79	78-120	
2,4,6-Trinitrotoluene	2.00	1.71	85	71-123	
2,4-Dinitrotoluene	2.00	1.54	77	78-120	Q
2,6-Dinitrotoluene	2.00	1.64	82	77-127	
2-Amino-4,6-dinitrotoluene	2.00	1.50	75	79-120	Q
2-Nitrotoluene	2.00	1.19	59	70-127	Q
3-Nitrotoluene	2.00	1.31	66	73-125	Q
4-Amino-2,6-dinitrotoluene	2.00	1.48	74	76-125	Q
4-Nitrotoluene	2.00	1.28	64	71-127	Q
HMX	2.00	1.79	89	65-135	M
Nitrobenzene	2.00	1.28	64	65-134	Q
RDX	2.00	1.74	87	68-130	
Tetryl	2.00	1.63	81	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.: 280-134369-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 03130015.D

Lab ID: LCS 280-488301/6-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
MNX	2.33	2.11	91	57-132	

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.: 280-134369-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 03130012.D
Lab ID: LCSD 280-488301/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,3,5-Trinitrobenzene	2.00	1.93	97	10	30	73-125	
1,3-Dinitrobenzene	2.00	1.81	91	13	30	78-120	
2,4,6-Trinitrotoluene	2.00	1.83	91	7	30	71-123	
2,4-Dinitrotoluene	2.00	1.73	87	12	30	78-120	
2,6-Dinitrotoluene	2.00	1.76	88	7	30	77-127	
2-Amino-4,6-dinitrotoluene	2.00	1.71	86	13	30	79-120	
2-Nitrotoluene	2.00	1.39	70	16	30	70-127	
3-Nitrotoluene	2.00	1.59	79	19	30	73-125	
4-Amino-2,6-dinitrotoluene	2.00	1.64	82	10	30	76-125	
4-Nitrotoluene	2.00	1.56	78	19	30	71-127	
HMX	2.00	1.93	97	8	30	65-135	M
Nitrobenzene	2.00	1.56	78	19	30	65-134	
RDX	2.00	1.88	94	8	30	68-130	
Tetryl	2.00	1.71	85	5	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.: 280-134369-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 03130016.D

Lab ID: LCSD 280-488301/7-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD REC	% RPD	QC LIMITS		#
					RPD	REC	
MNX	2.33	2.18	94	3	30	57-132	

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.: 280-134369-1
SDG No.: _____
Lab Sample ID: MB 280-488301/1-A
Matrix: Water Date Extracted: 03/10/2020 19:07
Lab File ID: (1) 03130010.D Lab File ID: (2) _____
Date Analyzed: (1) 03/13/2020 16:52 Date Analyzed: (2) _____
Instrument ID: (1) CHHPLC_X3 Instrument ID: (2) _____
GC Column: (1) UltraCarb5uO ID: 4.6 (mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 280-488301/2-A	03/13/2020 17:15	
	LCSD 280-488301/3-A	03/13/2020 17:38	
	LCS 280-488301/6-A	03/13/2020 18:46	
	LCSD 280-488301/7-A	03/13/2020 19:09	
WATERWC-Q2-MAR20	280-134369-1	03/16/2020 18:38	03/17/2020 13:34

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Client Sample ID: WATERWC-Q2-MAR20 Lab Sample ID: 280-134369-1
Matrix: Water Lab File ID: 03160029.D
Analysis Method: 8330A Date Collected: 03/05/2020 12:00
Extraction Method: 3535 Date Extracted: 03/10/2020 19:07
Sample wt/vol: 480.5 (mL) Date Analyzed: 03/16/2020 18:38
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.: 488785 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.42	U M	1.0	0.42	0.21
99-65-0	1,3-Dinitrobenzene	0.21	U M	0.42	0.21	0.092
118-96-7	2,4,6-Trinitrotoluene	0.42	U	0.42	0.42	0.17
121-14-2	2,4-Dinitrotoluene	0.21	U Q	0.42	0.21	0.087
606-20-2	2,6-Dinitrotoluene	0.21	U	0.21	0.21	0.067
35572-78-2	2-Amino-4,6-dinitrotoluene	0.12	U Q	0.21	0.12	0.053
88-72-2	2-Nitrotoluene	0.21	U Q	0.42	0.21	0.089
99-08-1	3-Nitrotoluene	0.42	U Q	0.42	0.42	0.20
99-99-0	4-Nitrotoluene	0.42	U Q M	1.0	0.42	0.21
2691-41-0	HMX	0.21	U	0.42	0.21	0.091
98-95-3	Nitrobenzene	0.21	U Q M	0.42	0.21	0.095
479-45-8	Tetryl	0.21	U	0.25	0.21	0.083

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: \\chromna\Denver\ChromData\CHHPLC_X\20200316-90072.b\03160029.D
 Lims ID: 280-134369-A-1-A
 Client ID: WATERWC-Q2-MAR20
 Sample Type: Client
 Inject. Date: 16-Mar-2020 18:38:11 ALS Bottle#: 29 Worklist Smp#: 29
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: 280-134369-A-1-A
 Misc. Info.: 280-0090072-029
 Operator ID: CB Instrument ID: CHHPLC_X3
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200316-90072.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 17-Mar-2020 12:04:44 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: CTX0339

First Level Reviewer: beckerc Date: 17-Mar-2020 11:46:09

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/mL	Flags
3 HMX	1	6.685				ND	
6 MNX	1	7.347	7.361	-0.014	61668	0.3890	M
7 RDX	1	7.727	7.745	-0.018	111474	0.9457	M
\$ 9 1,2-Dinitrobenzene	1	8.714	8.705	0.009	28457	0.1946	M
10 1,3,5-Trinitrobenzene	1		8.878			ND	MU
11 1,3-Dinitrobenzene	1		9.525			ND	MU
12 Nitrobenzene	1		9.911			ND	MU
14 Tetryl	1		10.211			ND	
16 2,4,6-Trinitrotoluene	1		11.178			ND	
17 4-Amino-2,6-dinitrotoluene	1	11.354	11.325	0.029	1928	0.0111	M
18 2-Amino-4,6-dinitrotoluene	1		11.611			ND	
19 2,6-Dinitrotoluene	1		11.785			ND	
20 2,4-Dinitrotoluene	1		11.978			ND	
21 o-Nitrotoluene	1		12.818			ND	
22 p-Nitrotoluene	1		13.258			ND	U
23 m-Nitrotoluene	1		13.858			ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

Report Date: 17-Mar-2020 12:04:49

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200316-90072.b\\03160029.d

Injection Date: 16-Mar-2020 18:38:11

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: 280-134369-A-1-A

Lab Sample ID: 280-134369-1

Worklist Smp#: 29

Client ID: WATERWC-Q2-MAR20

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

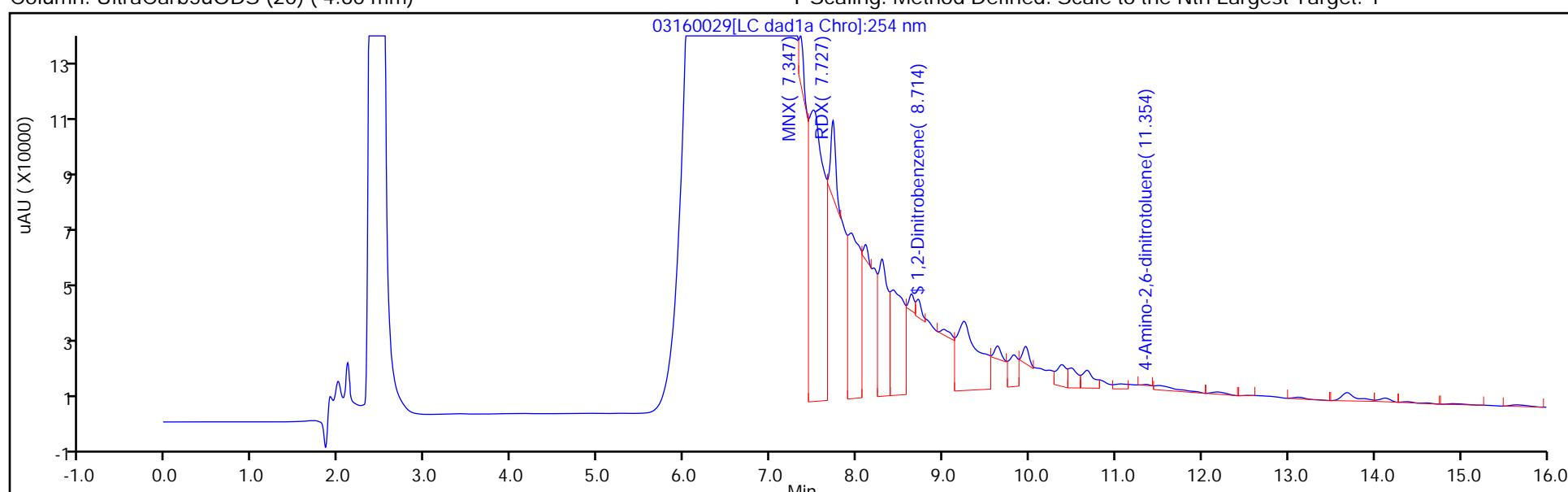
ALS Bottle#: 29

Method: 8330_X3

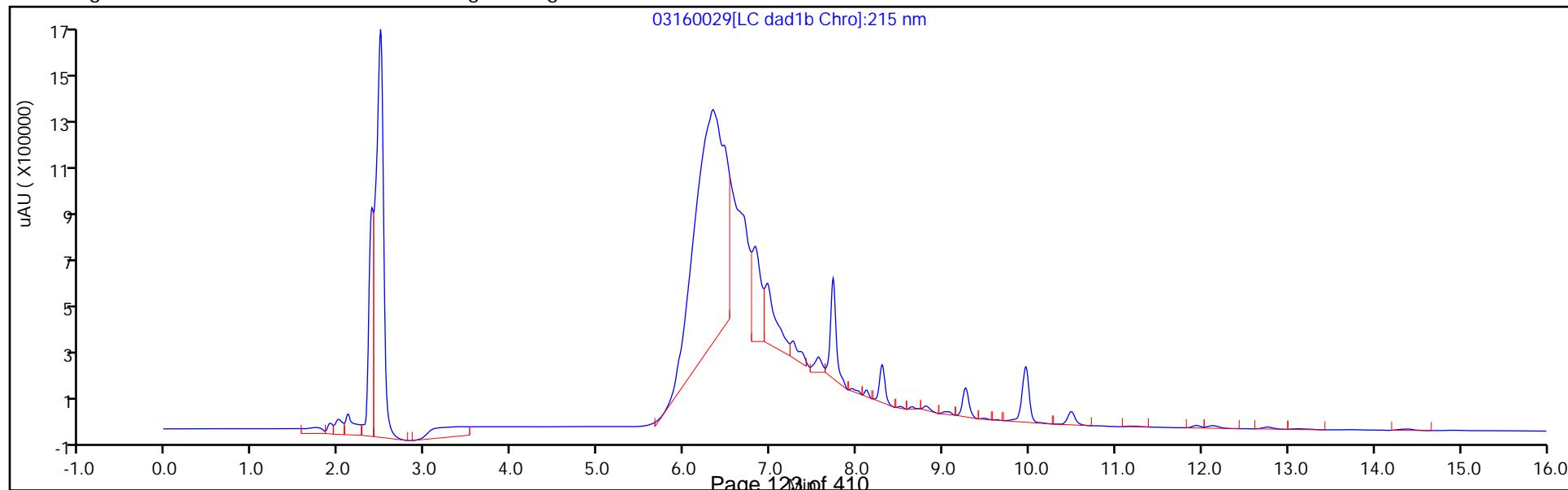
Limit Group: GCSV - 8330

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: \\chromna\Denver\ChromData\CHHPLC_X\20200316-90072.b\03160029.D
 Lims ID: 280-134369-A-1-A
 Client ID: WATERWC-Q2-MAR20
 Sample Type: Client
 Inject. Date: 16-Mar-2020 18:38:11 ALS Bottle#: 29 Worklist Smp#: 29
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: 280-134369-A-1-A
 Misc. Info.: 280-0090072-029
 Operator ID: CB Instrument ID: CHHPLC_X3
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200316-90072.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 17-Mar-2020 12:04:44 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: CTX0339

First Level Reviewer: beckerc Date: 17-Mar-2020 11:46:09

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,2-Dinitrobenzene	0.2000	0.1946	97.31

Eurofins TestAmerica, Denver

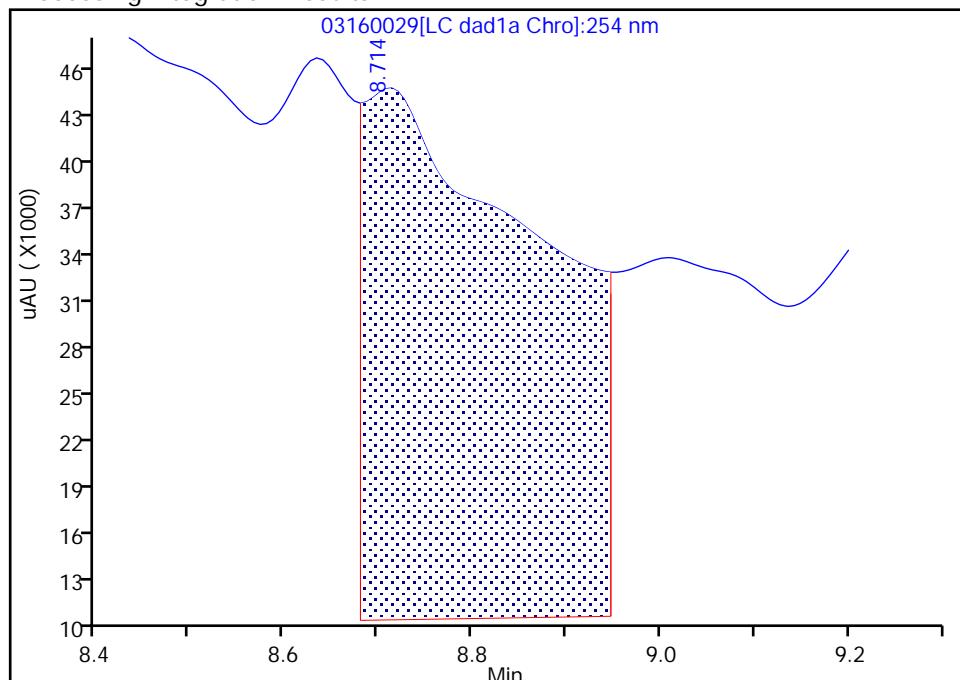
Data File: \\chromna\denver\chromdata\chhplc_x\20200316-90072.b\03160029.d
 Injection Date: 16-Mar-2020 18:38:11 Instrument ID: CHHPLC_X3
 Lims ID: 280-134369-A-1-A Lab Sample ID: 280-134369-1
 Client ID: WATERWC-Q2-MAR20
 Operator ID: CB ALS Bottle#: 29 Worklist Smp#: 29
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

\$ 9 1,2-Dinitrobenzene, CAS: 528-29-0

Signal: 1

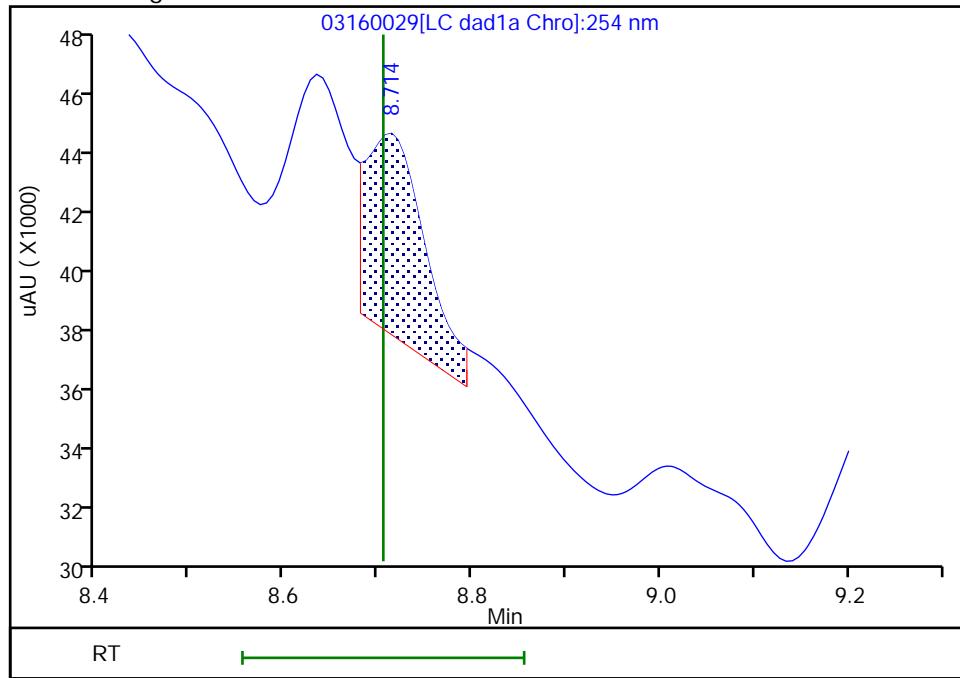
RT: 8.71
 Area: 435749
 Amount: 2.980193
 Amount Units: ug/mL

Processing Integration Results



RT: 8.71
 Area: 28457
 Amount: 0.194624
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 17-Mar-2020 11:45:03

Audit Action: Manually Integrated

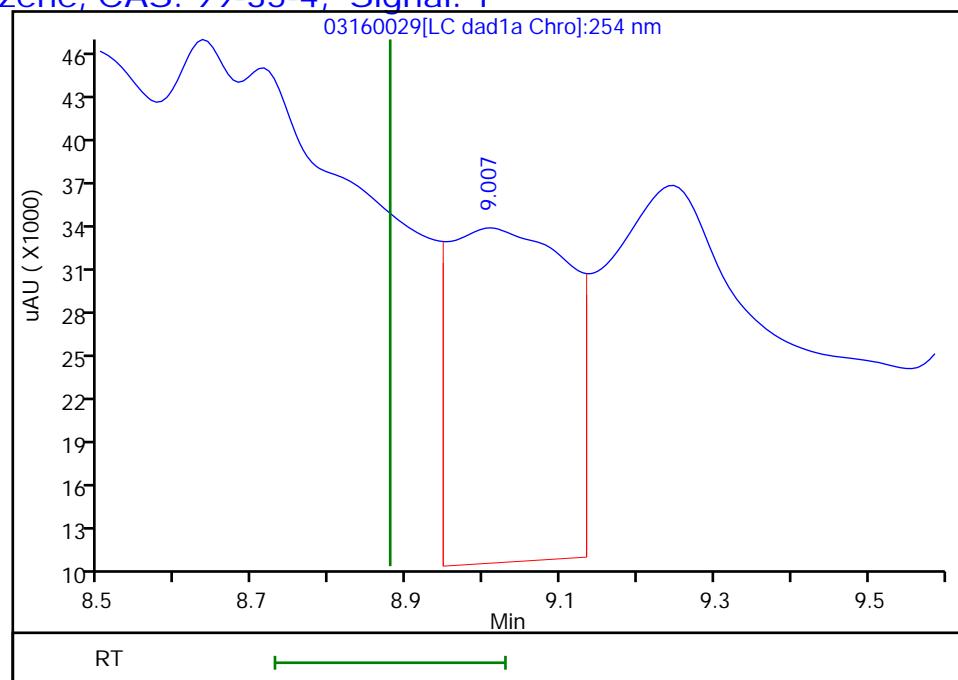
Audit Reason: Baseline

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200316-90072.b\03160029.d
Injection Date: 16-Mar-2020 18:38:11 Instrument ID: CHHPLC_X3
Lims ID: 280-134369-A-1-A Lab Sample ID: 280-134369-1
Client ID: WATERWC-Q2-MAR20
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

10 1,3,5-Trinitrobenzene, CAS: 99-35-4, Signal: 1

RT: 9.01
Response: 241994
Amount: 0.993982



Reviewer: beckerc, 17-Mar-2020 11:46:09

Audit Action: Marked Compound Undetected

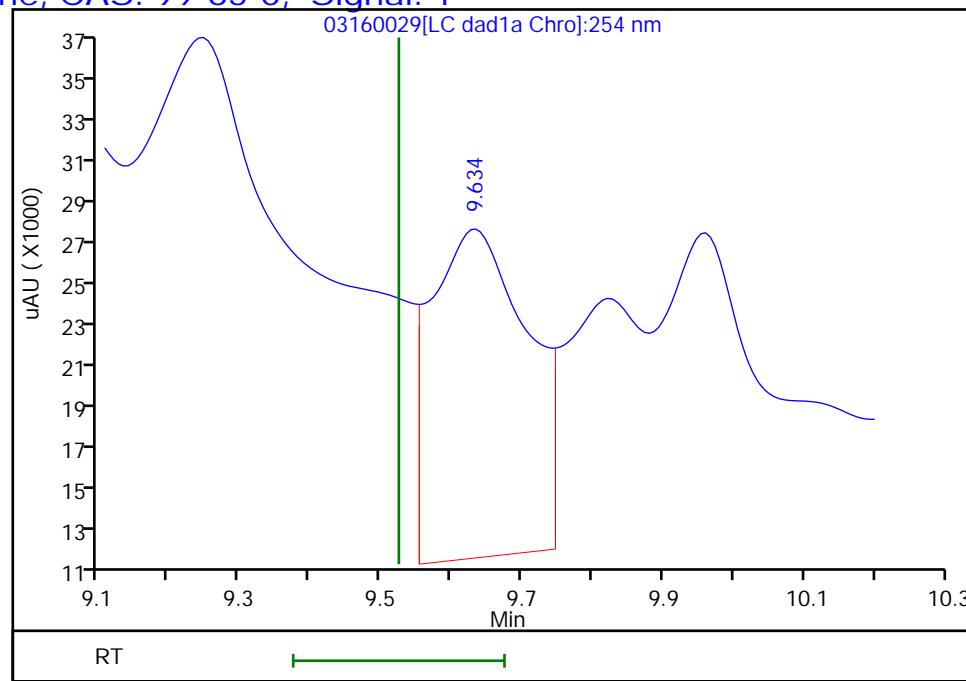
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200316-90072.b\03160029.d
 Injection Date: 16-Mar-2020 18:38:11 Instrument ID: CHHPLC_X3
 Lims ID: 280-134369-A-1-A Lab Sample ID: 280-134369-1
 Client ID: WATERWC-Q2-MAR20
 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

11 1,3-Dinitrobenzene, CAS: 99-65-0, Signal: 1

RT: 9.63
 Response: 144942
 Amount: 0.447005



Reviewer: beckerc, 17-Mar-2020 11:46:09

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver

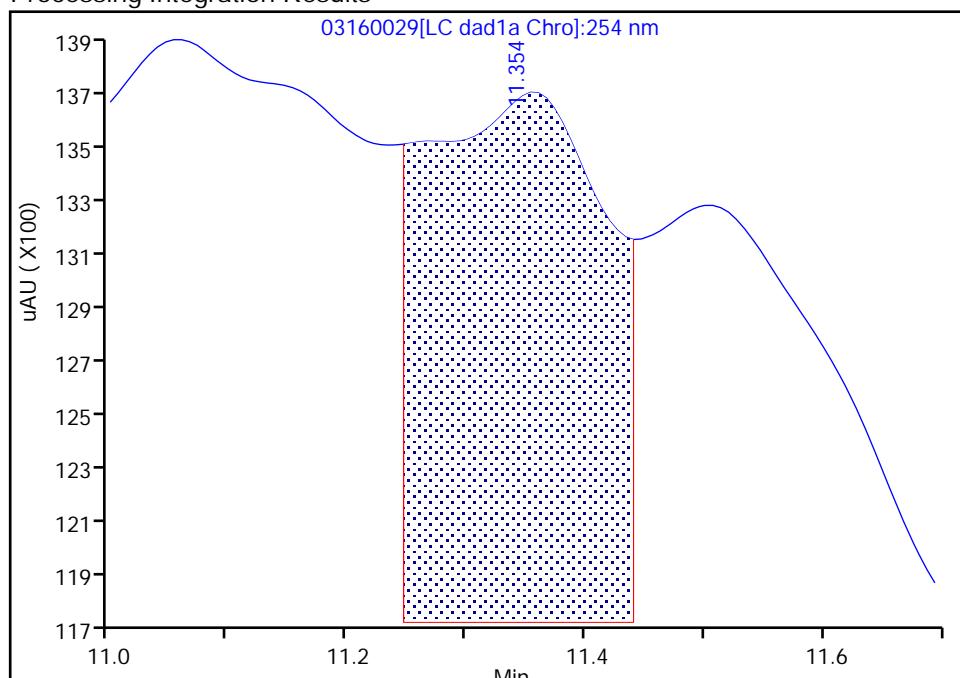
Data File: \\chromna\denver\chromdata\chhplc_x\20200316-90072.b\03160029.d
 Injection Date: 16-Mar-2020 18:38:11 Instrument ID: CHHPLC_X3
 Lims ID: 280-134369-A-1-A Lab Sample ID: 280-134369-1
 Client ID: WATERWC-Q2-MAR20
 Operator ID: CB ALS Bottle#: 29 Worklist Smp#: 29
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

17 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

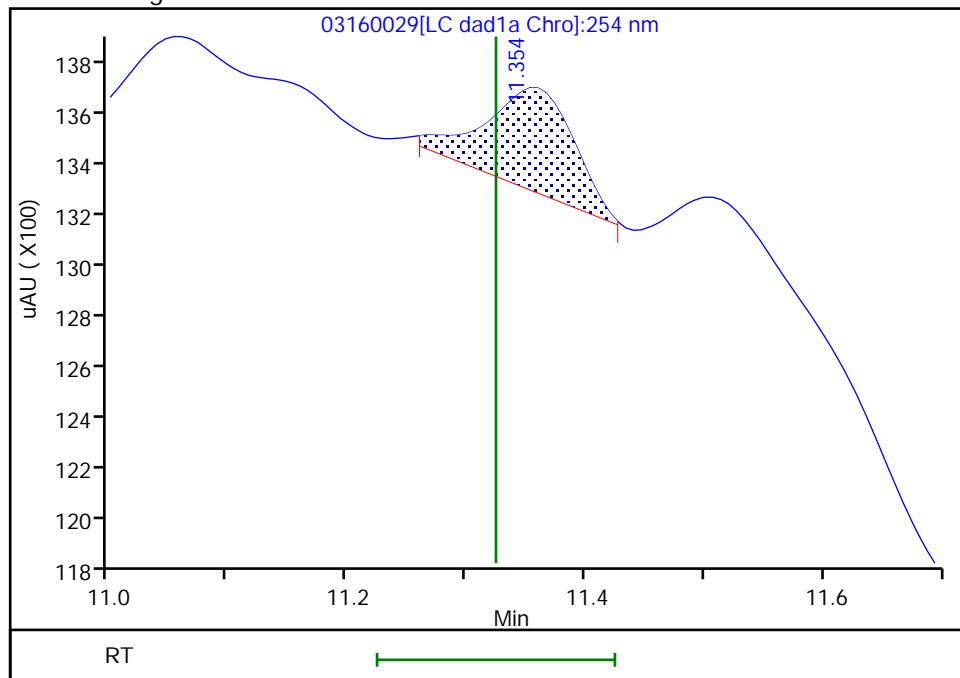
RT: 11.35
 Area: 19465
 Amount: 0.112211
 Amount Units: ug/mL

Processing Integration Results



RT: 11.35
 Area: 1928
 Amount: 0.011114
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 17-Mar-2020 11:46:01

Audit Action: Manually Integrated

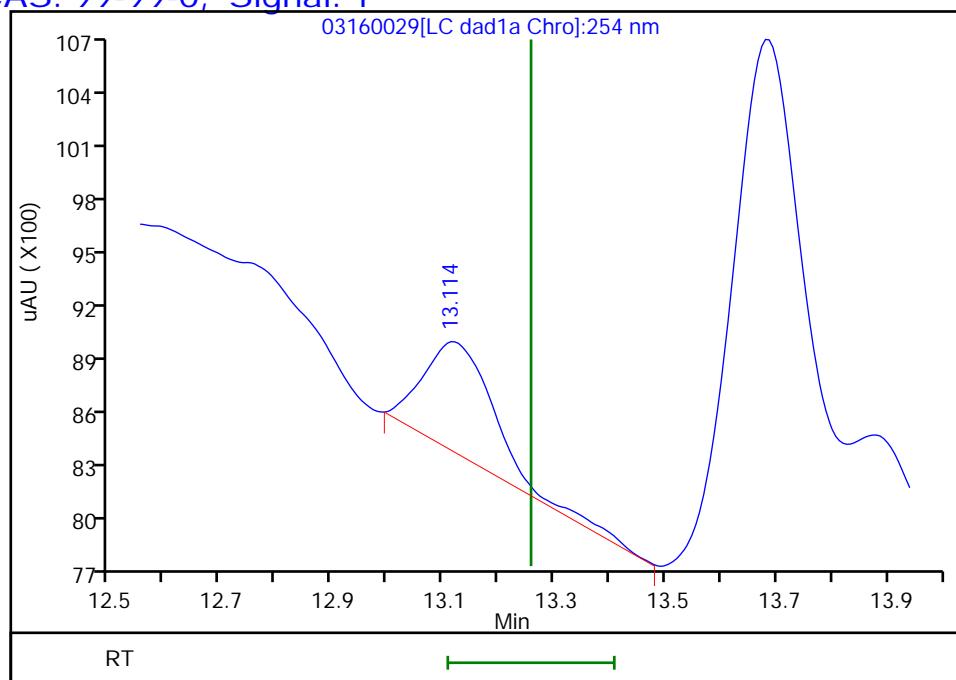
Audit Reason: Baseline

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200316-90072.b\03160029.d
Injection Date: 16-Mar-2020 18:38:11 Instrument ID: CHHPLC_X3
Lims ID: 280-134369-A-1-A Lab Sample ID: 280-134369-1
Client ID: WATERWC-Q2-MAR20
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

22 p-Nitrotoluene, CAS: 99-99-0, Signal: 1

RT: 13.11
Response: 5533
Amount: 0.045994



Reviewer: beckerc, 17-Mar-2020 11:46:09

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver

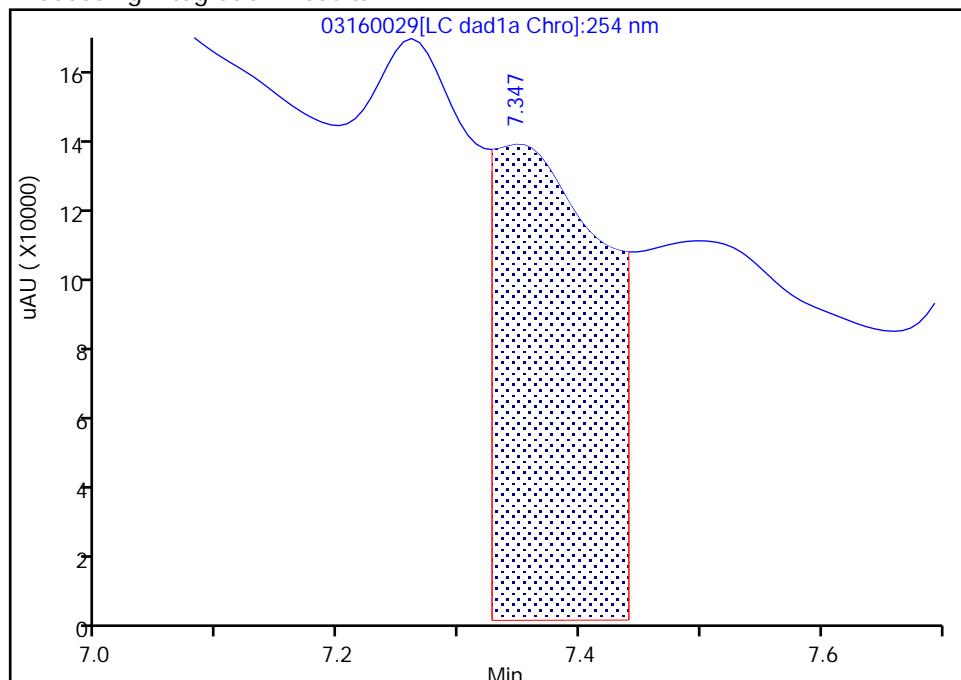
Data File: \\chromna\denver\chromdata\chhplc_x\20200316-90072.b\03160029.d
 Injection Date: 16-Mar-2020 18:38:11 Instrument ID: CHHPLC_X3
 Lims ID: 280-134369-A-1-A Lab Sample ID: 280-134369-1
 Client ID: WATERWC-Q2-MAR20
 Operator ID: CB ALS Bottle#: 29 Worklist Smp#: 29
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

6 MNX, CAS: 5755-27-1

Signal: 1

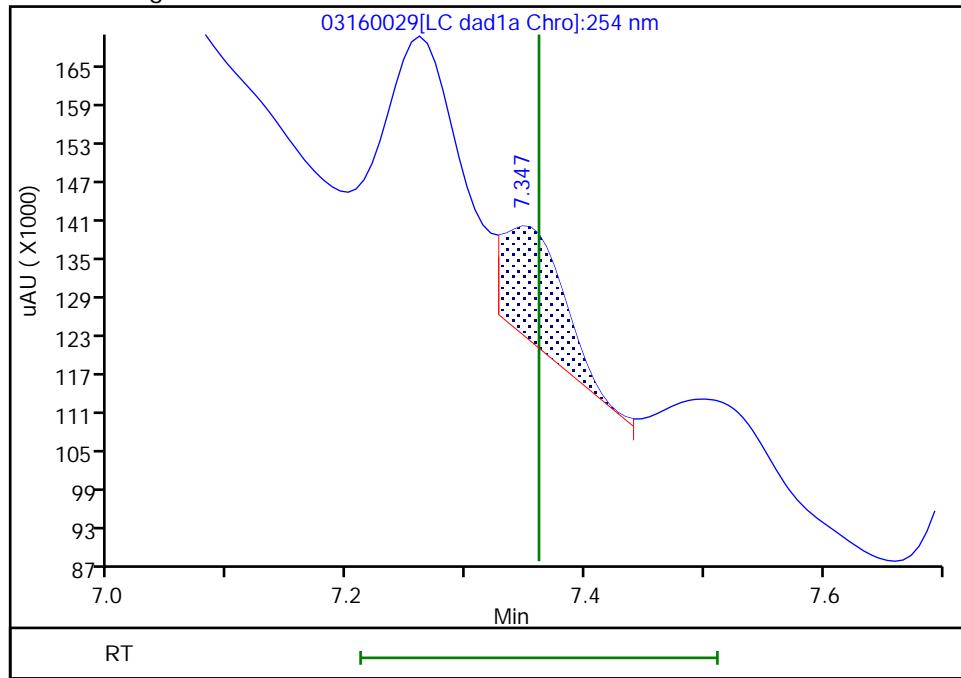
RT: 7.35
 Area: 809202
 Amount: 5.103952
 Amount Units: ug/mL

Processing Integration Results



RT: 7.35
 Area: 61668
 Amount: 0.388964
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 17-Mar-2020 11:44:33

Audit Action: Assigned New Baseline

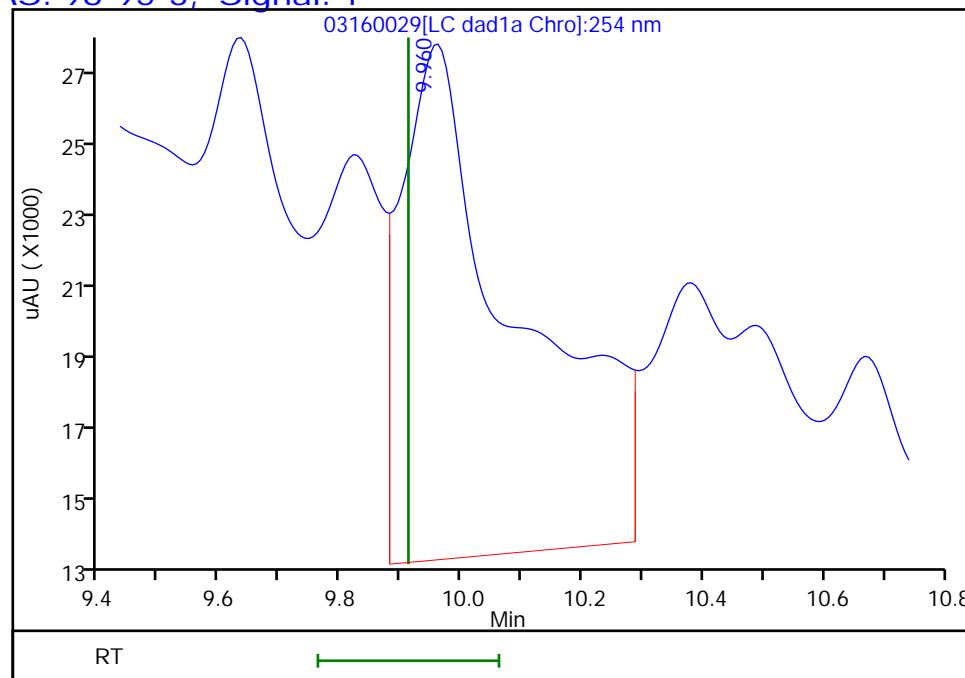
Audit Reason: Baseline

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200316-90072.b\03160029.d
Injection Date: 16-Mar-2020 18:38:11 Instrument ID: CHHPLC_X3
Lims ID: 280-134369-A-1-A Lab Sample ID: 280-134369-1
Client ID: WATERWC-Q2-MAR20
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

12 Nitrobenzene, CAS: 98-95-3, Signal: 1

RT: 9.96
Response: 190913
Amount: 0.897616



Reviewer: beckerc, 17-Mar-2020 11:46:09

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver

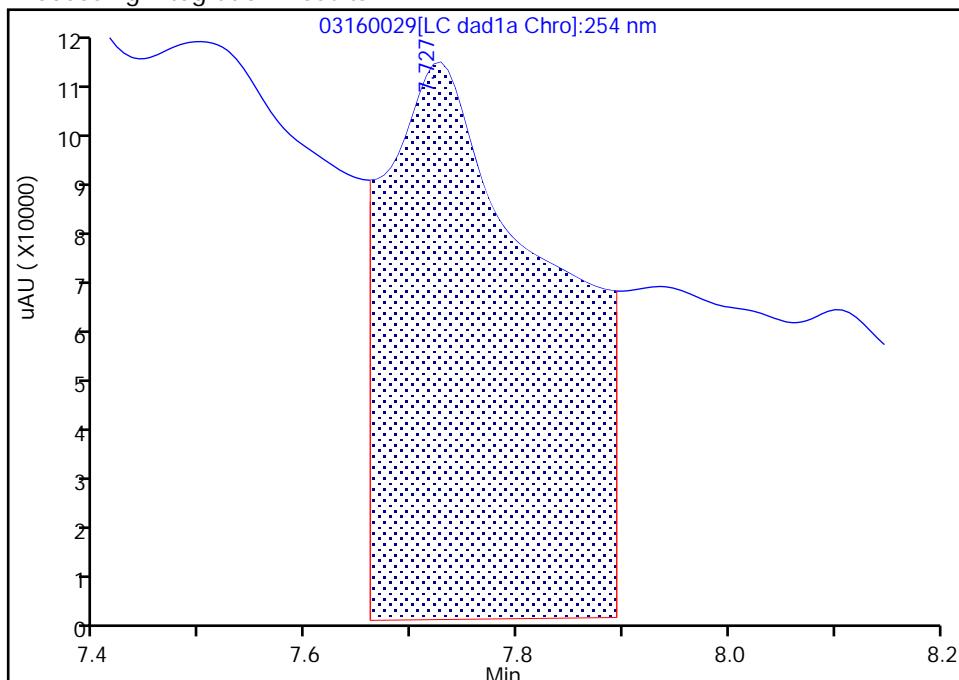
Data File: \\chromna\denver\chromdata\chhplc_x\20200316-90072.b\03160029.d
 Injection Date: 16-Mar-2020 18:38:11 Instrument ID: CHHPLC_X3
 Lims ID: 280-134369-A-1-A Lab Sample ID: 280-134369-1
 Client ID: WATERWC-Q2-MAR20
 Operator ID: CB ALS Bottle#: 29 Worklist Smp#: 29
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

7 RDX, CAS: 121-82-4

Signal: 1

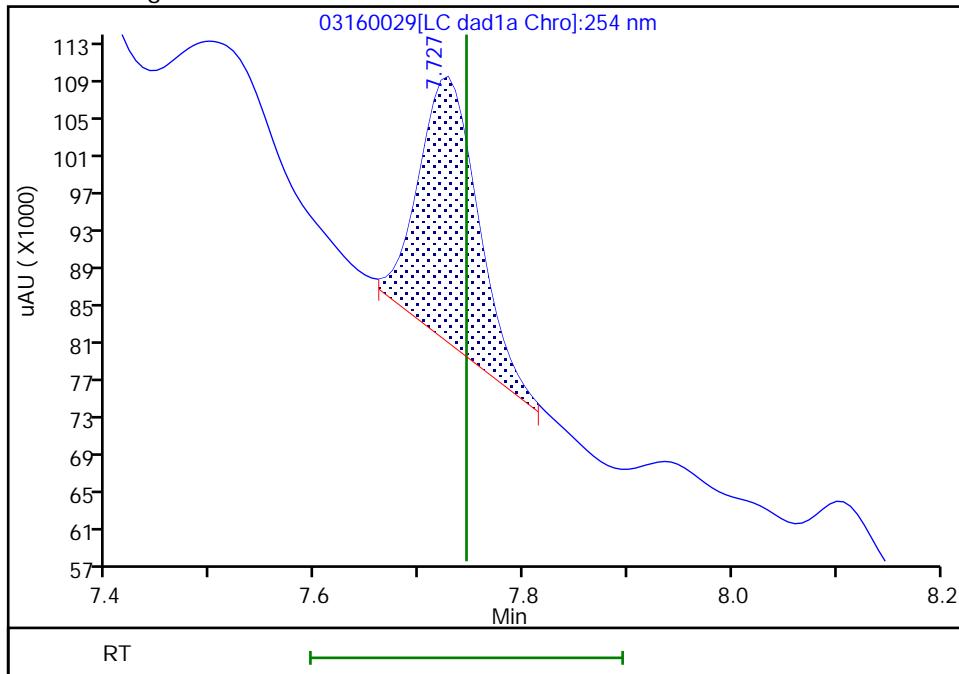
RT: 7.73
 Area: 1073200
 Amount: 9.105037
 Amount Units: ug/mL

Processing Integration Results



RT: 7.73
 Area: 111474
 Amount: 0.945746
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 17-Mar-2020 11:44:40

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Client Sample ID: WATERWC-Q2-MAR20 Lab Sample ID: 280-134369-1
Matrix: Water Lab File ID: 03160046.D
Analysis Method: 8330A Date Collected: 03/05/2020 12:00
Extraction Method: 3535 Date Extracted: 03/10/2020 19:07
Sample wt/vol: 480.5 (mL) Date Analyzed: 03/17/2020 13:34
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.: 488850 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
19406-51-0	4-Amino-2,6-dinitrotoluene	0.12	U Q	0.21	0.12	0.060
5755-27-1	MNX	0.42	U Q	2.1	0.42	0.16
121-82-4	RDX	0.42	U Q	0.42	0.42	0.16

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	49	Q	83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200316-90087.b\03160046.D
 Lims ID: 280-134369-A-1-A
 Client ID: WATERWC-Q2-MAR20
 Sample Type: Client
 Inject. Date: 17-Mar-2020 13:34:01 ALS Bottle#: 46 Worklist Smp#: 46
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: 280-134369-A-1-A
 Misc. Info.: 280-0090087-046
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200316-90087.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 18-Mar-2020 14:50:37 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICAL File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0307

First Level Reviewer: beckerc Date: 18-Mar-2020 14:44:29

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
6 HMX	1	6.800			ND		U
7 MNX	1	7.557			ND		
8 RDX	1	8.920			ND		
9 Nitrobenzene	1	11.880			ND		
\$ 10 1,2-Dinitrobenzene	1	12.696	12.753	-0.057	30070	0.0976	
12 1,3-Dinitrobenzene	1	15.247			ND		
14 o-Nitrotoluene	1	16.267			ND		
15 p-Nitrotoluene	1	16.547			ND		
16 4-Amino-2,6-dinitrotoluene	1	16.767			ND		
17 m-Nitrotoluene	1	17.467			ND		
18 2-Amino-4,6-dinitrotoluene	1	17.593			ND		U
19 1,3,5-Trinitrobenzene	1	18.449	18.547	-0.098	6985	0.006439	
20 2,6-Dinitrotoluene	1	19.460			ND		
21 2,4-Dinitrotoluene	1	19.909	19.927	-0.018	25470	0.0328	
22 Tetryl	1	23.154			ND		
23 2,4,6-Trinitrotoluene	1	24.314			ND		

QC Flag Legend

Review Flags

U - Marked Undetected

Report Date: 18-Mar-2020 14:50:46

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200316-90087.b\\03160046.d

Injection Date: 17-Mar-2020 13:34:01

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: 280-134369-A-1-A

Lab Sample ID: 280-134369-1

Worklist Smp#: 46

Client ID: WATERWC-Q2-MAR20

Dil. Factor: 1.0000

ALS Bottle#: 46

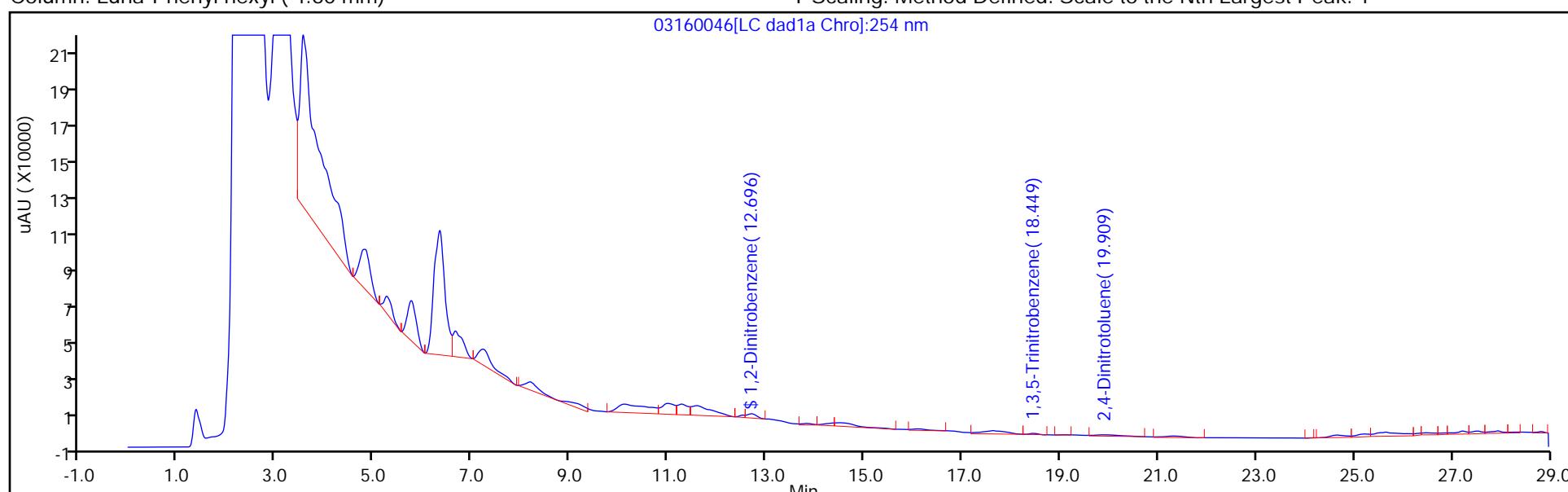
Injection Vol: 100.0 ul

Limit Group: GCSV - 8330

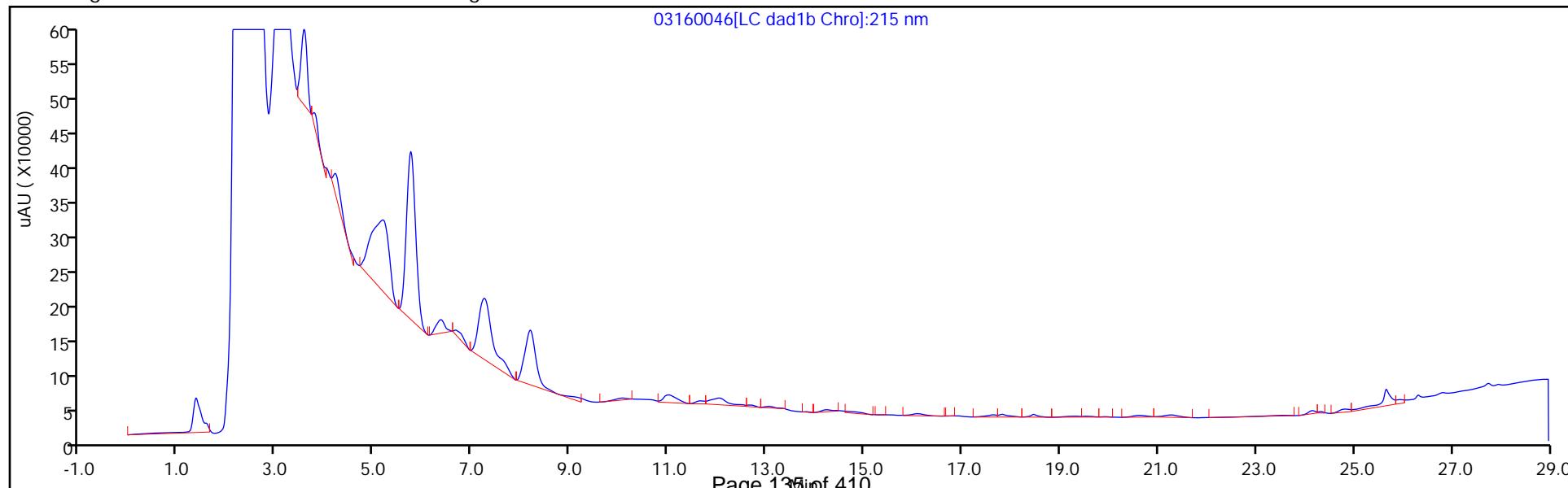
Method: G2_8330_Luna

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: \\chromna\Denver\ChromData\G2_LUNA\20200316-90087.b\03160046.D
 Lims ID: 280-134369-A-1-A
 Client ID: WATERWC-Q2-MAR20
 Sample Type: Client
 Inject. Date: 17-Mar-2020 13:34:01 ALS Bottle#: 46 Worklist Smp#: 46
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: 280-134369-A-1-A
 Misc. Info.: 280-0090087-046
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200316-90087.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 18-Mar-2020 14:50:37 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0307

First Level Reviewer: beckerc Date: 18-Mar-2020 14:44:29

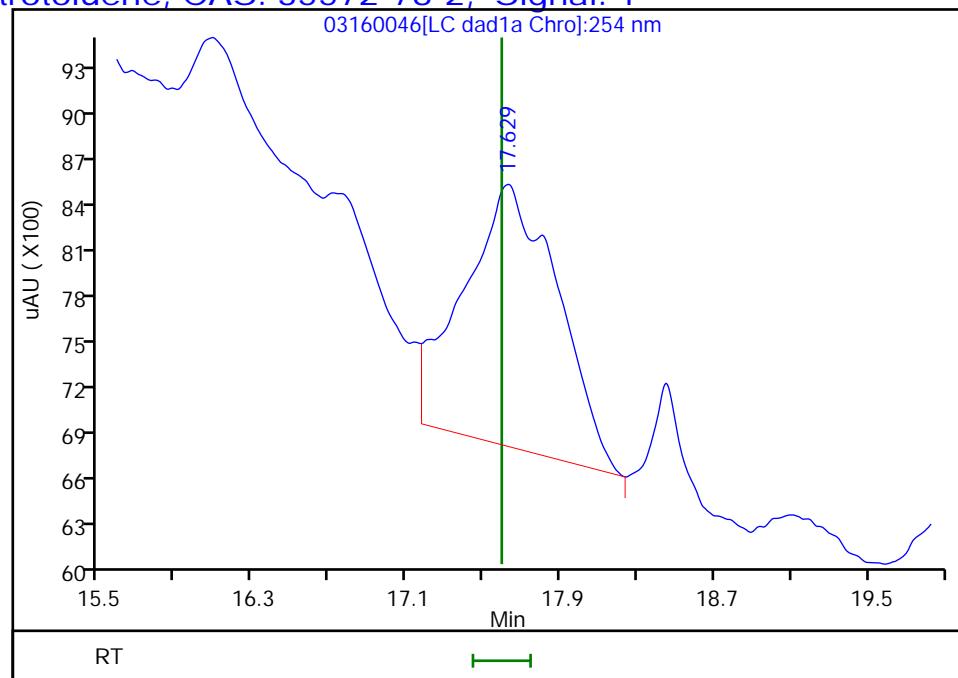
Compound	Amount Added	Amount Recovered	% Rec.
\$ 10 1,2-Dinitrobenzene	0.2000	0.0976	48.82

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\g2_luna\20200316-90087.b\03160046.d
 Injection Date: 17-Mar-2020 13:34:01 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: 280-134369-A-1-A Lab Sample ID: 280-134369-1
 Client ID: WATERWC-Q2-MAR20
 Operator ID: CB ALS Bottle#: 46 Worklist Smp#: 46
 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: 17.63
 Response: 58692
 Amount: 0.116624



Reviewer: beckerc, 18-Mar-2020 14:44:29

Audit Action: Marked Compound Undetected

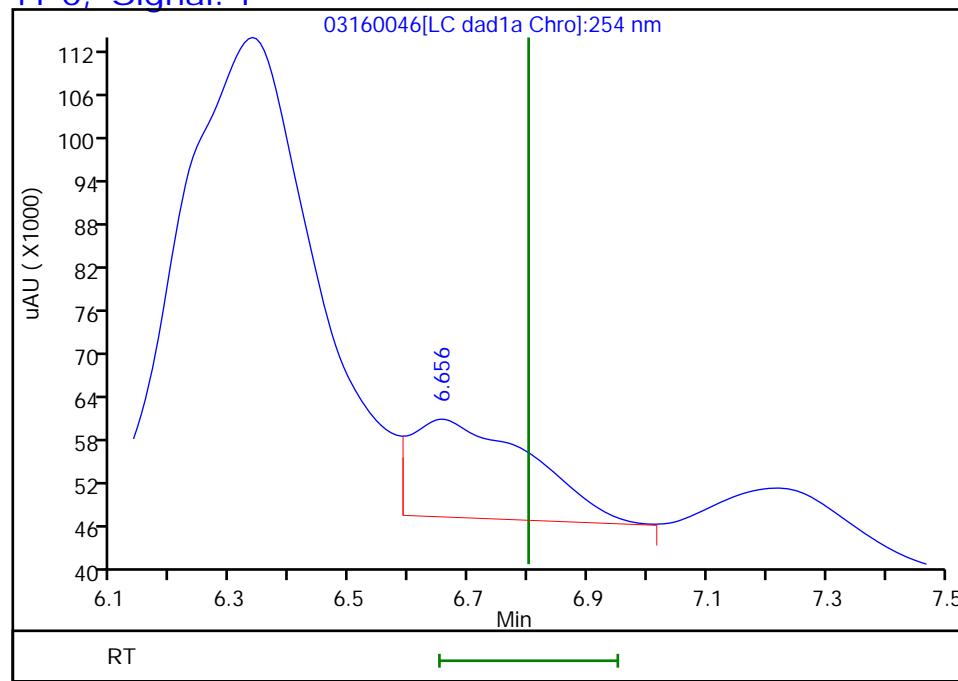
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\g2_luna\20200316-90087.b\03160046.d
Injection Date: 17-Mar-2020 13:34:01 Instrument ID: CHHPLC_G2_LUNA
Lims ID: 280-134369-A-1-A Lab Sample ID: 280-134369-1
Client ID: WATERWC-Q2-MAR20
Operator ID: CB ALS Bottle#: 46 Worklist Smp#: 46
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

RT: 6.66
Response: 191045
Amount: 1.093274



Reviewer: beckerc, 18-Mar-2020 14:44:29

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1 Analy Batch No.: 487544

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2020 18:01 Calibration End Date: 03/03/2020 22:06 Calibration ID: 42492

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-487544/14	03030014.D
Level 2	IC 280-487544/13	03030013.D
Level 3	IC 280-487544/12	03030012.D
Level 4	IC 280-487544/11	03030011.D
Level 5	IC 280-487544/10	03030010.D
Level 6	IC 280-487544/9	03030009.D
Level 7	IC 280-487544/8	03030008.D
Level 8	IC 280-487544/7	03030007.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
Picric acid	5.672	5.669	5.639	5.617	5.587	5.558	5.510				5.437 - 5.737	5.607
HMX	6.945	6.963	6.953	6.957	6.947	6.945	6.936	6.869			6.797 - 7.097	6.939
RDX	9.125	9.143	9.126	9.130	9.120	9.112	9.096	9.029			8.970 - 9.270	9.110
Nitrobenzene	12.119	12.129	12.126	12.124	12.113	12.105	12.090	11.995			11.963 - 12.263	12.100
1,3-Dinitrobenzene	15.559	15.569	15.566	15.564	15.553	15.551	15.462				15.403 - 15.703	15.544
Nitroglycerin	15.812	15.816	15.819	15.817	15.813	15.811	15.790	15.729			15.663 - 15.963	15.801
2-Nitrotoluene	16.579	16.596	16.586	16.590	16.580	16.578	16.556				16.430 - 16.730	16.581
4-Nitrotoluene	16.852	16.856	16.859	16.864	16.853	16.851	16.830				16.703 - 17.003	16.852
4-Amino-2,6-dinitrotoluene	17.165	17.169	17.166	17.164	17.160	17.151	17.130				17.010 - 17.310	17.158
3-Nitrotoluene	17.772	17.796	17.792	17.790	17.787	17.785	17.763				17.637 - 17.937	17.784
2-Amino-4,6-dinitrotoluene	18.005	18.016	18.012	18.017	18.013	18.005	17.976				17.863 - 18.163	18.006
1,3,5-Trinitrobenzene	18.905	18.909	18.912	18.910	18.907	18.905	18.890	18.835			18.757 - 19.057	18.897
2,6-Dinitrotoluene	19.845	19.856	19.852	19.857	19.853	19.851	19.830	19.775			19.703 - 20.003	19.840
2,4-Dinitrotoluene	20.312	20.323	20.319	20.324	20.320	20.318	20.296	20.242			20.170 - 20.470	20.307
Tetryl	23.585	23.589	23.579	23.584	23.580	23.585	23.563	23.529			23.430 - 23.730	23.574
2,4,6-Trinitrotoluene	24.712	24.716	24.706	24.710	24.713	24.712	24.696	24.662			24.563 - 24.863	24.703
PETN	25.465	25.296	25.293	25.290	25.293	25.292	25.283	25.269			25.143 - 25.443	25.310
1,2-Dinitrobenzene	13.032	13.043	13.039	13.037	13.033	13.025	13.010	12.929			12.883 - 13.183	13.019

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

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-134369-1

Analy Batch No.: 487544

SDG No.:

Instrument ID: CHHPLC_G2_LUNA

GC Column: Luna-phenyl ID: 4.6 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2020 18:01

Calibration End Date: 03/03/2020 22:06

Calibration ID: 42492

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-487544/14	03030014.D
Level 2	IC 280-487544/13	03030013.D
Level 3	IC 280-487544/12	03030012.D
Level 4	IC 280-487544/11	03030011.D
Level 5	IC 280-487544/10	03030010.D
Level 6	IC 280-487544/9	03030009.D
Level 7	IC 280-487544/8	03030008.D
Level 8	IC 280-487544/7	03030007.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4		B	M1	M2								
Picric acid	307200 167250	165320 172741	162930 174722	160392	Lin2	1432.33755	158794.688							0.9920		0.9900
HMX	366400 181740	189580 181403	185550 182080	179496 180885	Lin2	1887.46964	173019.401							0.9960		0.9900
RDX	493500 221358	230640 220387	232290 221782	218996 220334	Lin2	2775.08934	209079.626							0.9940		0.9900
Nitrobenzene	772112 403551	398108 406357	400339 407363	384187 419445	Lin2	3759.78981	383712.763							0.9930		0.9900
1,3-Dinitrobenzene	1383832 669790	693852 668584	699750 674646	654607 669329	Lin2	7294.50627	637510.790							0.9960		0.9900
Nitroglycerin	326880 146487	157722 147329	156826 146085	148550 143395	Lin2	18358.0452	139686.787							0.9960		0.9900
2-Nitrotoluene	443400 239523	229680 243911	242010 244658	226236	Lin2	2104.57823	225290.269							0.9920		0.9900
4-Nitrotoluene	428044 229953	226467 229393	227275 231470	217333	Lin2	2074.83879	214608.004							0.9940		0.9900
4-Amino-2,6-dinitrotoluene	620480 333274	348372 333833	338082 336895	328923	Lin2	2959.42058	318445.921							0.9970		0.9900
3-Nitrotoluene	413986 240574	237043 240594	233946 233533	228575	Lin2	1841.01540	224676.844							0.9960		0.9900
2-Amino-4,6-dinitrotoluene	944622 495498	512351 497499	509014 510549	490641	Qua	3819.85650	465803.759	40313.2760						1.0000		0.9900
1,3,5-Trinitrobenzene	865968 474217	526567 472136	477375 475185	473816 471216	Lin2	4025.62451	459589.258							0.9990		0.9900
2,6-Dinitrotoluene	565139 292702	298825 291857	298466 295155	287697 289377	Lin2	2797.82260	278869.343							0.9960		0.9900
2,4-Dinitrotoluene	1210857 617861	633247 617665	637918 623179	611143 624629	Lin2	6043.87499	592221.333							0.9960		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
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1 Analy Batch No.: 487544

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2020 18:01 Calibration End Date: 03/03/2020 22:06 Calibration ID: 42492

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								
Tetryl	819561 365793	368323 367729	367335 369337	361509 369261	Lin2	4624.47319	343226.702							0.9910		0.9900
2,4,6-Trinitrotoluene	789044 419465	407390 420538	424960 422393	409669 421343	Lin2	3778.97123	398797.764							0.9940		0.9900
PETN	319690 143409	128678 143380	137231 145088	136140 144459	Lin1	11553.4593	142137.751							0.9980		0.9900
1,2-Dinitrobenzene	640500 291080	298100 286084	293310 290041	284160 286945	Lin2	3595.33024	271161.032							0.9930		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.: 280-134369-1 Analy Batch No.: 487544

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2020 18:01 Calibration End Date: 03/03/2020 22:06 Calibration ID: 42492

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-487544/14	03030014.D
Level 2	IC 280-487544/13	03030013.D
Level 3	IC 280-487544/12	03030012.D
Level 4	IC 280-487544/11	03030011.D
Level 5	IC 280-487544/10	03030010.D
Level 6	IC 280-487544/9	03030009.D
Level 7	IC 280-487544/8	03030008.D
Level 8	IC 280-487544/7	03030007.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
Picric acid	Lin2	3072 120919	8266 174722	16293	40098	66900	0.0100 0.700	0.0500 1.00	0.100	0.250	0.400
HMX	Lin2	3664 126982	9479 182080	18555 452212	44874	72696	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
RDX	Lin2	4935 154271	11532 221782	23229 550834	54749	88543	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
Nitrobenzene	Lin2	7752 285588	19985 408992	40194 1052808	96431	162066	0.0100 0.703	0.0502 1.00	0.100 2.51	0.251	0.402
1,3-Dinitrobenzene	Lin2	13866 468945	34762 675995	70115 1676668	163979	268452	0.0100 0.701	0.0501 1.00	0.100 2.51	0.251	0.401
Nitroglycerin	Lin2	32688 1031302	78861 1460853	156826 3584879	371375	585948	0.100 7.00	0.500 10.0	1.00 25.0	2.50	4.00
2-Nitrotoluene	Lin2	4434 170738	11484 244658	24201	56559	95809	0.0100 0.700	0.0500 1.00	0.100	0.250	0.400
4-Nitrotoluene	Lin2	4289 160896	11346 231933	22773	54442	92165	0.0100 0.701	0.0501 1.00	0.100	0.251	0.401
4-Amino-2,6-dinitrotoluene	Lin2	6211 233917	17436 337232	33842	82313	133443	0.0100 0.701	0.0501 1.00	0.100	0.250	0.400
3-Nitrotoluene	Lin2	4144 168584	11864 233767	23418	57201	96326	0.0100 0.701	0.0501 1.00	0.100	0.250	0.400
2-Amino-4,6-dinitrotoluene	Qua	9484 349642	25720 512591	51105	123151	198992	0.0100 0.703	0.0502 1.00	0.100	0.251	0.402
1,3,5-Trinitrobenzene	Lin2	8677 331156	26381 476135	47833 1180395	118691	190066	0.0100 0.701	0.0501 1.00	0.100 2.51	0.251	0.401
2,6-Dinitrotoluene	Lin2	5674 205117	15001 296336	29966 726336	72212	117549	0.0100 0.703	0.0502 1.00	0.100 2.51	0.251	0.402
2,4-Dinitrotoluene	Lin2	12157 434095	31789 625672	64047 1567820	153397	248133	0.0100 0.703	0.0502 1.00	0.100 2.51	0.251	0.402
Tetryl	Lin2	8212 257925	18453 370076	36807 924998	90558	146610	0.0100 0.701	0.0501 1.00	0.100 2.51	0.251	0.401

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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1 Analy Batch No.: 487544

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2020 18:01 Calibration End Date: 03/03/2020 22:06 Calibration ID: 42492

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
2,4,6-Trinitrotoluene	Lin2	7922 295554	20451 424083	42666 1057572	102827	168457	0.0100 0.703	0.0502 1.00	0.100 2.51	0.251	0.402
PETN	Lin1	31969 1003662	64339 1450880	137231 3611463	340351	573634	0.100 7.00	0.500 10.0	1.00 25.0	2.50	4.00
1,2-Dinitrobenzene	Lin2	6405 200259	14905 290041	29331 717363	71040	116432	0.0100 0.700	0.0500 1.00	0.100 2.50	0.250	0.400

Curve Type Legend:

Lin1 = Linear 1/conc
Lin2 = Linear 1/conc^2
Qua = Quadratic

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030007.D
 Lims ID: IC FULL 8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 03-Mar-2020 18:01:29 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC FULL 8
 Misc. Info.: 280-0089749-007
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub6
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 05-Mar-2020 11:40:03 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0319

First Level Reviewer: beckerc

Date: 04-Mar-2020 08:11:21

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	4.360	-0.058	1265338	2.50	2.66	
2 2,4-diamino-6-nitrotoluene	1		4.913			ND	ND	U
5 2,4,6-Trinitrophenol	1		5.587			ND	ND	U
6 HMX	1	6.869	6.947	-0.078	452212	2.50	2.60	
8 RDX	1	9.029	9.120	-0.091	550834	2.50	2.62	
9 Nitrobenzene	1	11.995	12.113	-0.118	1052808	2.51	2.73	
\$ 10 1,2-Dinitrobenzene	1	12.929	13.033	-0.104	717363	2.50	2.63	
11 3,5-Dinitroaniline	1	14.762	14.853	-0.091	1377200	2.50	2.55	
12 1,3-Dinitrobenzene	1	15.462	15.553	-0.091	1676668	2.51	2.62	
13 Nitroglycerin	2	15.729	15.813	-0.084	3584879	25.0	25.5	M
14 o-Nitrotoluene	1		16.580			ND	ND	U
15 p-Nitrotoluene	1		16.853			ND	ND	
16 4-Amino-2,6-dinitrotoluene	1		17.160			ND	ND	U
17 m-Nitrotoluene	1		17.787			ND	ND	U
18 2-Amino-4,6-dinitrotoluene	1		18.013			ND	ND	
19 1,3,5-Trinitrobenzene	1	18.835	18.907	-0.072	1180395	2.51	2.56	
20 2,6-Dinitrotoluene	1	19.775	19.853	-0.078	726336	2.51	2.59	
21 2,4-Dinitrotoluene	1	20.242	20.320	-0.078	1567820	2.51	2.64	
22 Tetryl	1	23.529	23.580	-0.051	924998	2.51	2.68	
23 2,4,6-Trinitrotoluene	1	24.662	24.713	-0.051	1057572	2.51	2.64	
24 PETN	2	25.269	25.293	-0.024	3611463	25.0	25.3	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

8330IntermStk_00061

Amount Added: 250.00 Units: uL

8330_ADDs_00023

Amount Added: 125.00 Units: uL

Report Date: 05-Mar-2020 11:40:04

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200303-89749.b\\03030007.d

Injection Date: 03-Mar-2020 18:01:29

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC FULL 8

Worklist Smp#: 7

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

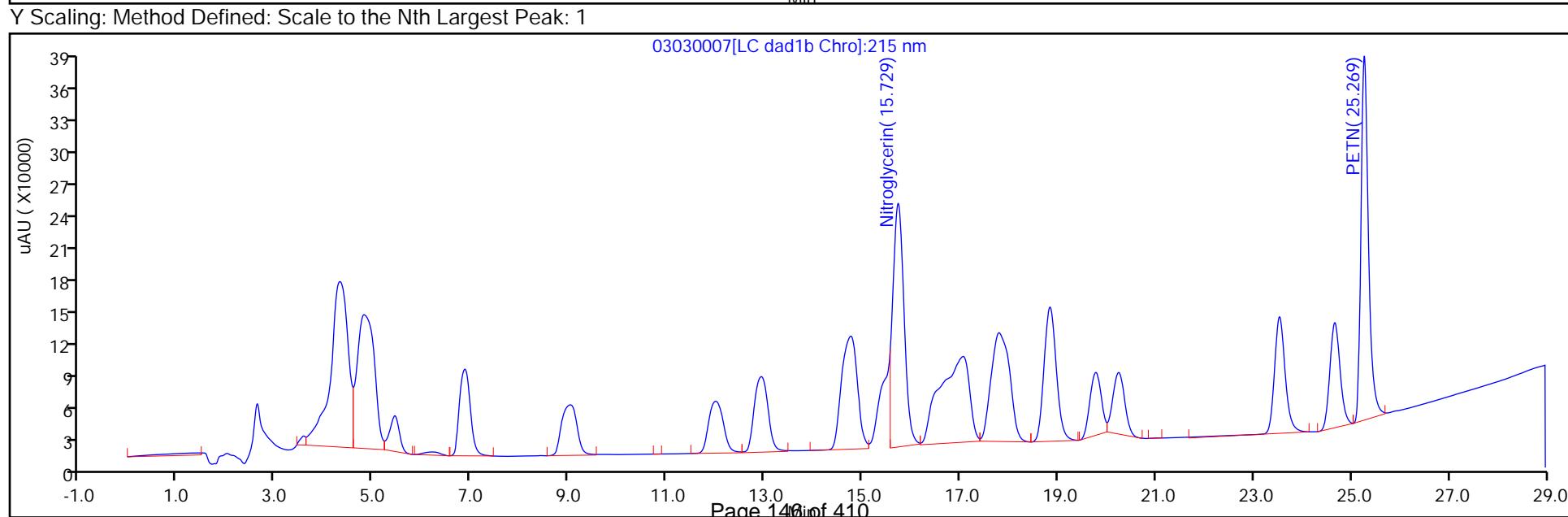
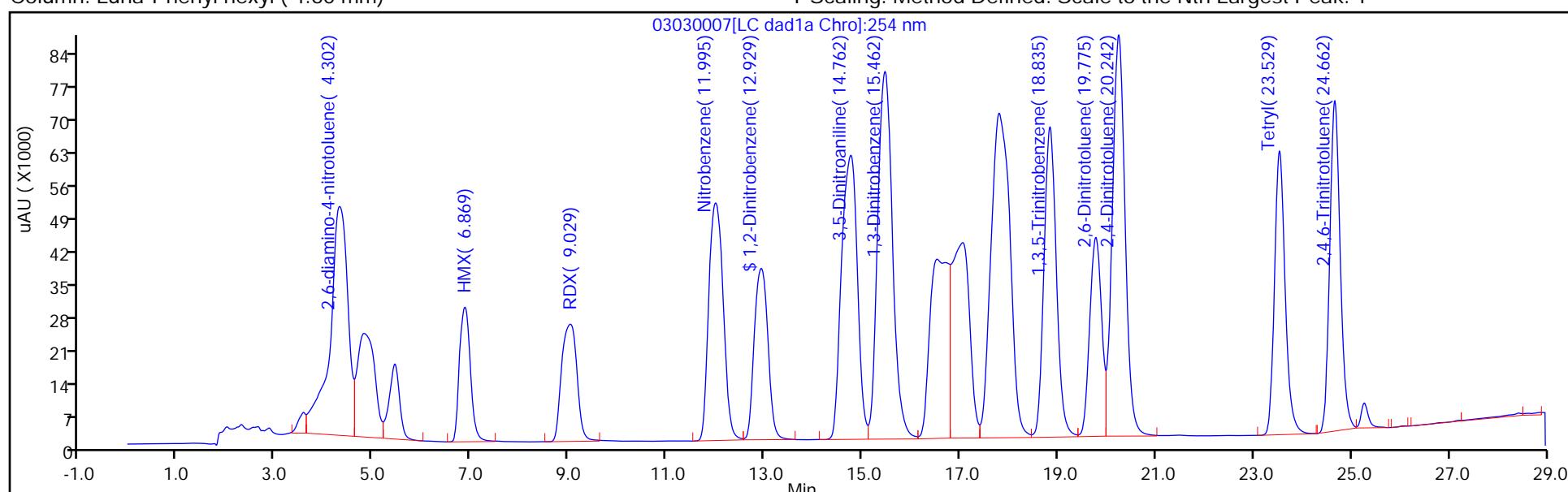
ALS Bottle#: 7

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



Eurofins TestAmerica, Denver

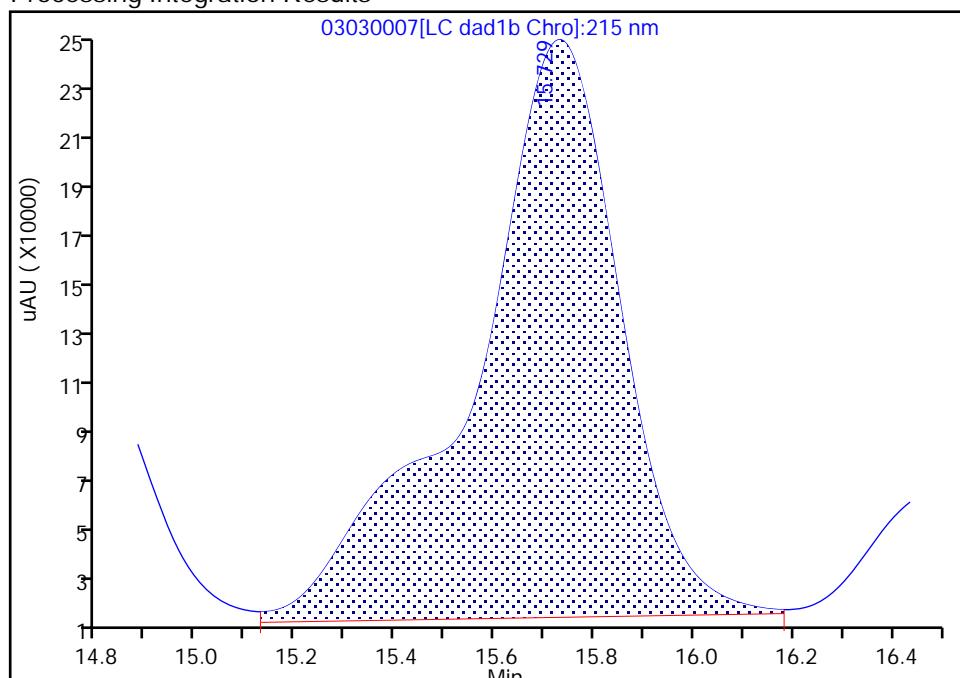
Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030007.d
 Injection Date: 03-Mar-2020 18:01:29 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC FULL 8
 Client ID:
 Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Detector LC DAD1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

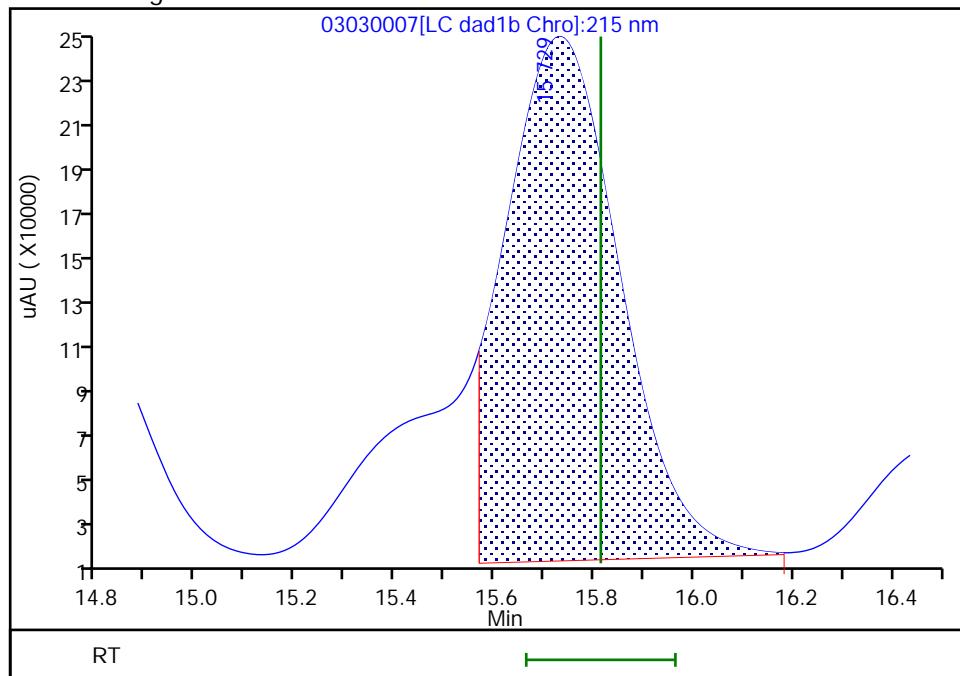
RT: 15.73
 Area: 4686578
 Amount: 26.504305
 Amount Units: ug/ml

Processing Integration Results



RT: 15.73
 Area: 3584879
 Amount: 25.532271
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 04-Mar-2020 08:29:36

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030008.D
 Lims ID: IC FULL 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 03-Mar-2020 18:36:30 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC FULL 7
 Misc. Info.: 280-0089749-008
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub6
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 05-Mar-2020 11:40:04 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0319

First Level Reviewer: beckerc

Date:

04-Mar-2020 08:12:04

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	4.343	4.360	-0.017	465813	1.00	0.9775	
2 2,4-diamino-6-nitrotoluene	1	4.910	4.913	-0.003	290042	1.00	1.00	
5 2,4,6-Trinitrophenol	1	5.510	5.587	-0.077	174722	1.00	1.09	
6 HMX	1	6.936	6.947	-0.011	182080	1.00	1.04	
8 RDX	1	9.096	9.120	-0.024	221782	1.00	1.05	
9 Nitrobenzene	1	12.090	12.113	-0.023	408992	1.00	1.06	
\$ 10 1,2-Dinitrobenzene	1	13.010	13.033	-0.023	290041	1.00	1.06	
11 3,5-Dinitroaniline	1	14.823	14.853	-0.030	548705	1.00	1.01	
12 1,3-Dinitrobenzene	1	15.530	15.553	-0.023	675995	1.00	1.05	
13 Nitroglycerin	2	15.790	15.813	-0.023	1460853	10.0	10.3	M
14 o-Nitrotoluene	1	16.556	16.580	-0.024	244658	1.00	1.08	
15 p-Nitrotoluene	1	16.830	16.853	-0.023	231933	1.00	1.07	
16 4-Amino-2,6-dinitrotoluene	1	17.130	17.160	-0.030	337232	1.00	1.05	
17 m-Nitrotoluene	1	17.763	17.787	-0.024	233767	1.00	1.03	
18 2-Amino-4,6-dinitrotoluene	1	17.976	18.013	-0.037	512591	1.00	1.00	
19 1,3,5-Trinitrobenzene	1	18.890	18.907	-0.017	476135	1.00	1.03	
20 2,6-Dinitrotoluene	1	19.830	19.853	-0.023	296336	1.00	1.05	
21 2,4-Dinitrotoluene	1	20.296	20.320	-0.024	625672	1.00	1.05	
22 Tetryl	1	23.563	23.580	-0.017	370076	1.00	1.06	
23 2,4,6-Trinitrotoluene	1	24.696	24.713	-0.017	424083	1.00	1.05	
24 PETN	2	25.283	25.293	-0.010	1450880	10.0	10.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 100.00

Units: uL

8330_ADDs_00023

Amount Added: 50.00

Units: uL

Report Date: 05-Mar-2020 11:40:05

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200303-89749.b\\03030008.d

Injection Date: 03-Mar-2020 18:36:30

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC FULL 7

Worklist Smp#: 8

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

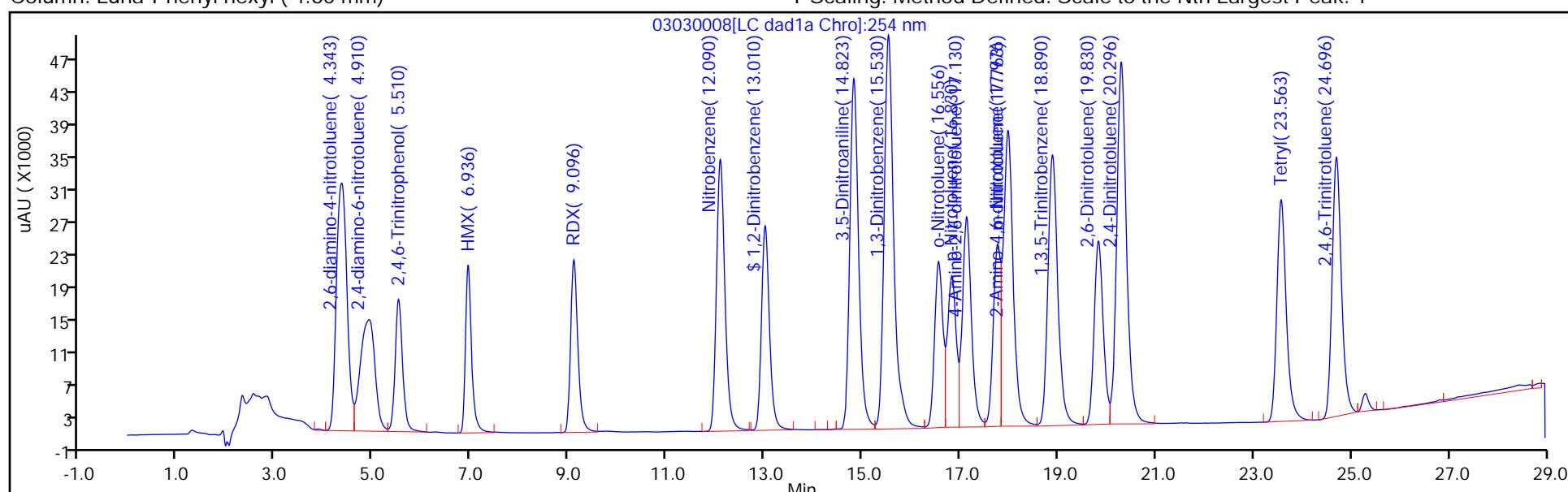
ALS Bottle#: 8

Method: G2_8330_Luna

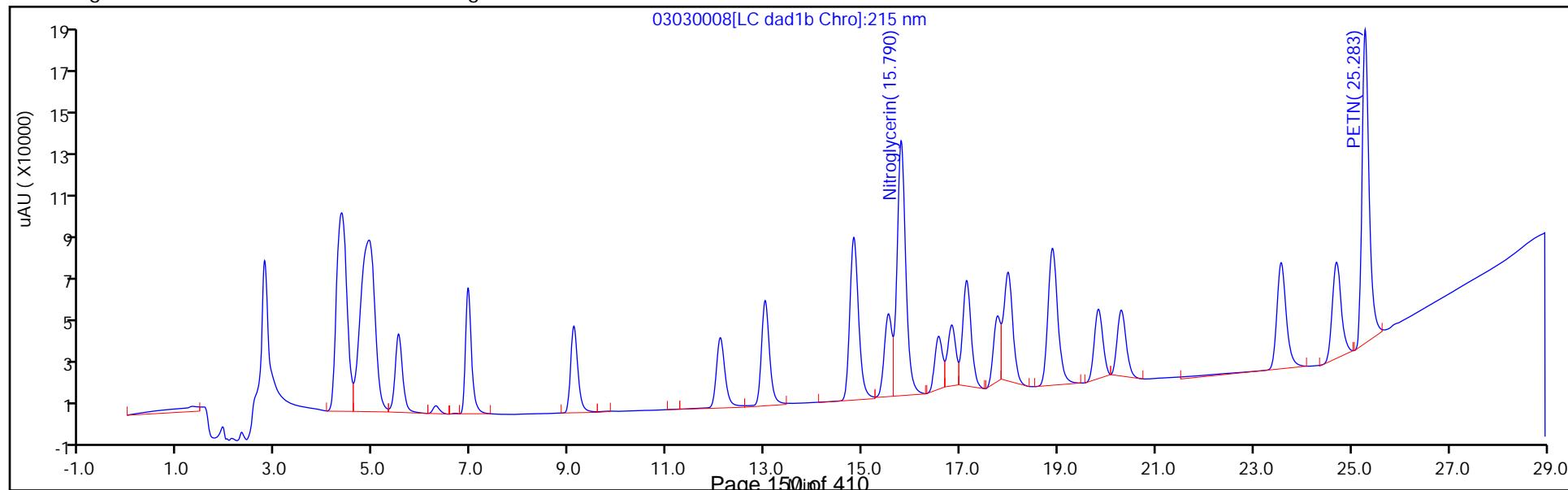
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

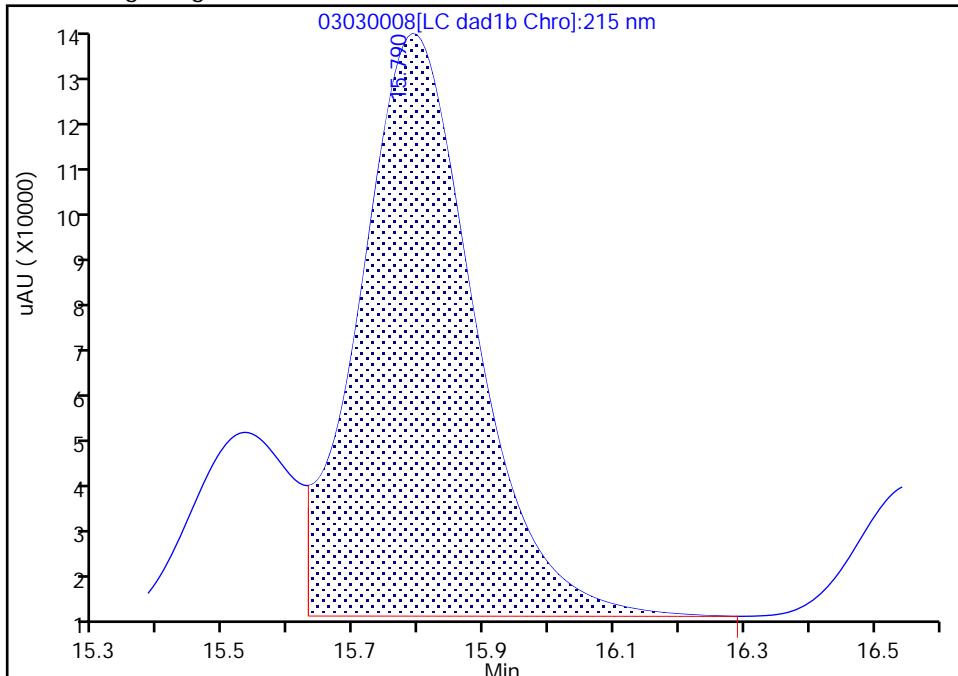
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 Injection Date: 03-Mar-2020 18:36:30 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC FULL 7
 Client ID:
 Operator ID: CB ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Detector LC DAD1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

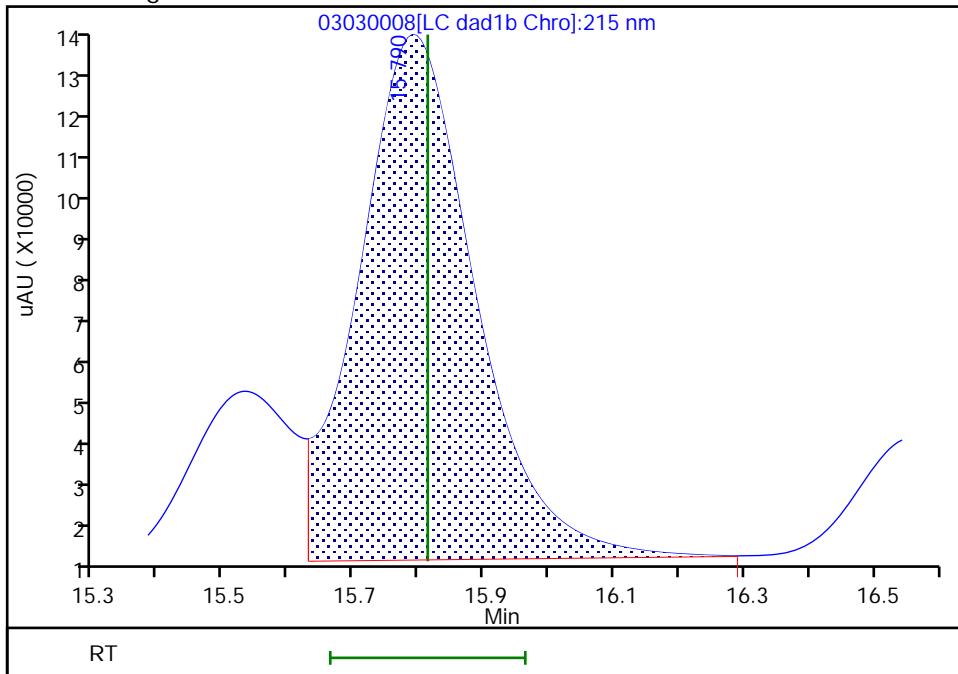
Processing Integration Results

RT: 15.79
 Area: 1433292
 Amount: 10.161071
 Amount Units: ug/ml



Manual Integration Results

RT: 15.79
 Area: 1460853
 Amount: 10.326639
 Amount Units: ug/ml



Reviewer: beckerc, 04-Mar-2020 08:29:55

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030009.D
 Lims ID: IC FULL 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 03-Mar-2020 19:11:30 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC FULL 6
 Misc. Info.: 280-0089749-009
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub6
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 05-Mar-2020 11:40:06 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0319

First Level Reviewer: beckerc

Date:

04-Mar-2020 08:22:50

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	4.352	4.360	-0.008	320883	0.7000	0.6734	
2 2,4-diamino-6-nitrotoluene	1	4.918	4.913	0.005	201934	0.7000	0.6999	
5 2,4,6-Trinitrophenol	1	5.558	5.587	-0.029	120919	0.7000	0.7525	
6 HMX	1	6.945	6.947	-0.002	126982	0.7000	0.7230	
8 RDX	1	9.112	9.120	-0.008	154271	0.7000	0.7246	
9 Nitrobenzene	1	12.105	12.113	-0.008	285588	0.7028	0.7345	
\$ 10 1,2-Dinitrobenzene	1	13.025	13.033	-0.008	200259	0.7000	0.7253	
11 3,5-Dinitroaniline	1	14.845	14.853	-0.008	377286	0.7000	0.6966	
12 1,3-Dinitrobenzene	1	15.551	15.553	-0.002	468945	0.7014	0.7241	
13 Nitroglycerin	2	15.811	15.813	-0.002	1031302	7.00	7.25	M
14 o-Nitrotoluene	1	16.578	16.580	-0.002	170738	0.7000	0.7485	
15 p-Nitrotoluene	1	16.851	16.853	-0.002	160896	0.7014	0.7401	
16 4-Amino-2,6-dinitrotoluene	1	17.151	17.160	-0.009	233917	0.7007	0.7253	
17 m-Nitrotoluene	1	17.785	17.787	-0.002	168584	0.7007	0.7421	
18 2-Amino-4,6-dinitrotoluene	1	18.005	18.013	-0.008	349642	0.7028	0.7000	
19 1,3,5-Trinitrobenzene	1	18.905	18.907	-0.002	331156	0.7014	0.7118	
20 2,6-Dinitrotoluene	1	19.851	19.853	-0.002	205117	0.7028	0.7255	
21 2,4-Dinitrotoluene	1	20.318	20.320	-0.002	434095	0.7028	0.7228	
22 Tetryl	1	23.585	23.580	0.005	257925	0.7014	0.7380	
23 2,4,6-Trinitrotoluene	1	24.712	24.713	-0.001	295554	0.7028	0.7316	
24 PETN	2	25.292	25.293	-0.001	1003662	7.00	6.98	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330_ADDs_00023

Amount Added: 35.00 Units: uL

8330IntermStk_00061

Amount Added: 70.00 Units: uL

Report Date: 05-Mar-2020 11:40:06

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200303-89749.b\\03030009.d

Injection Date: 03-Mar-2020 19:11:30

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC FULL 6

Worklist Smp#: 9

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

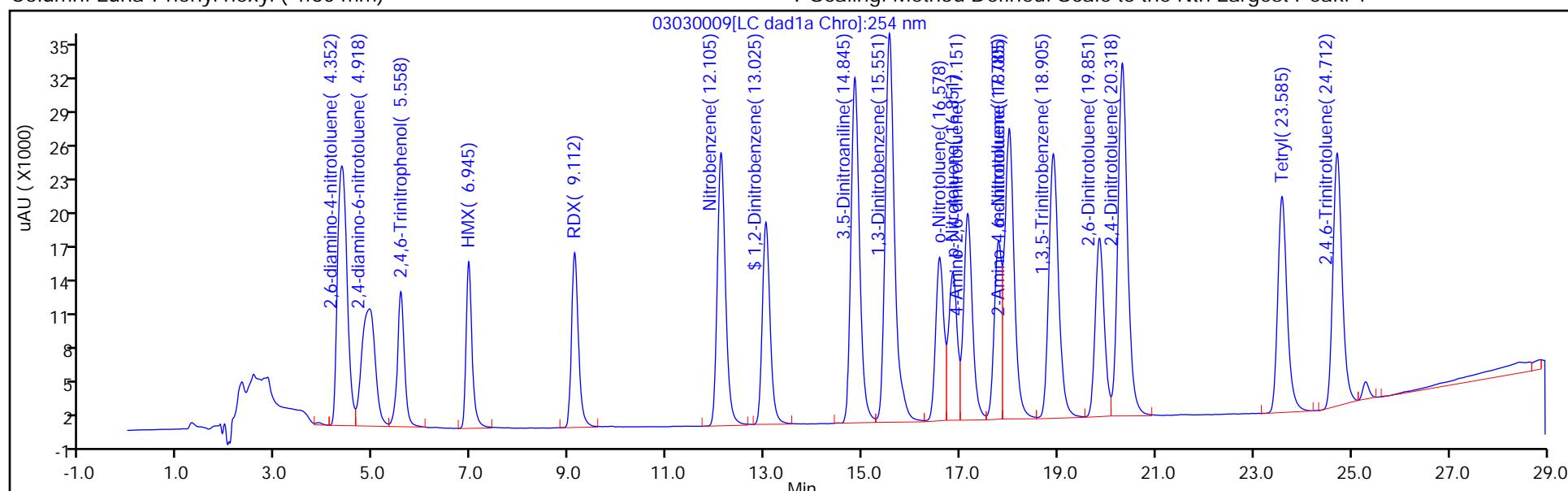
ALS Bottle#: 9

Method: G2_8330_Luna

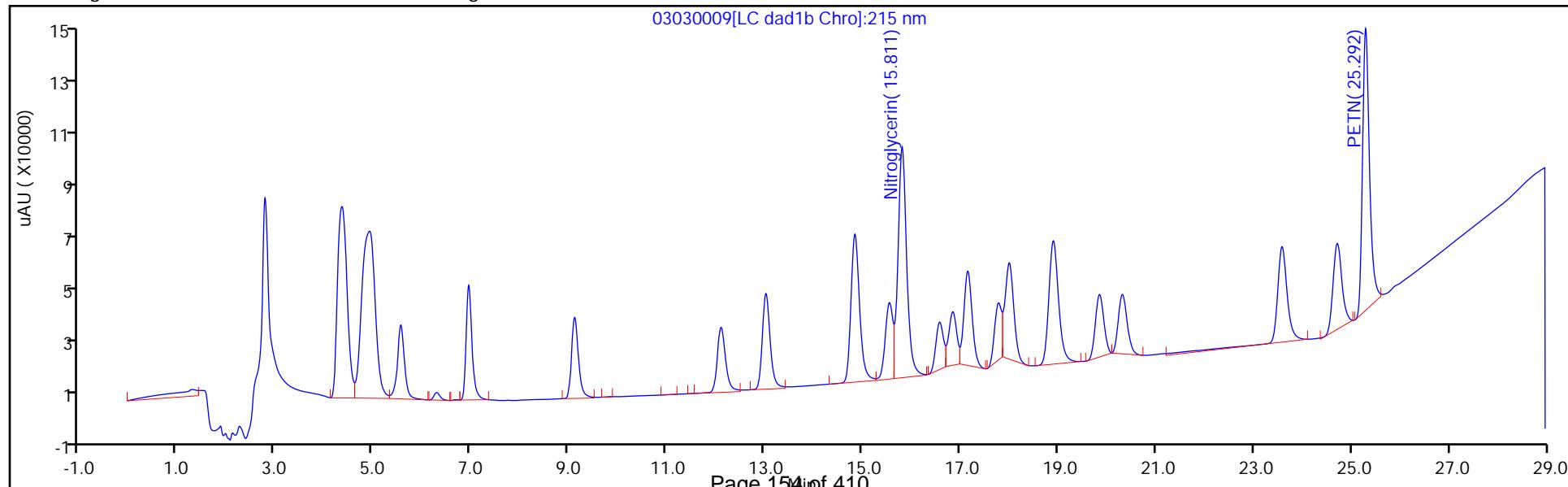
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

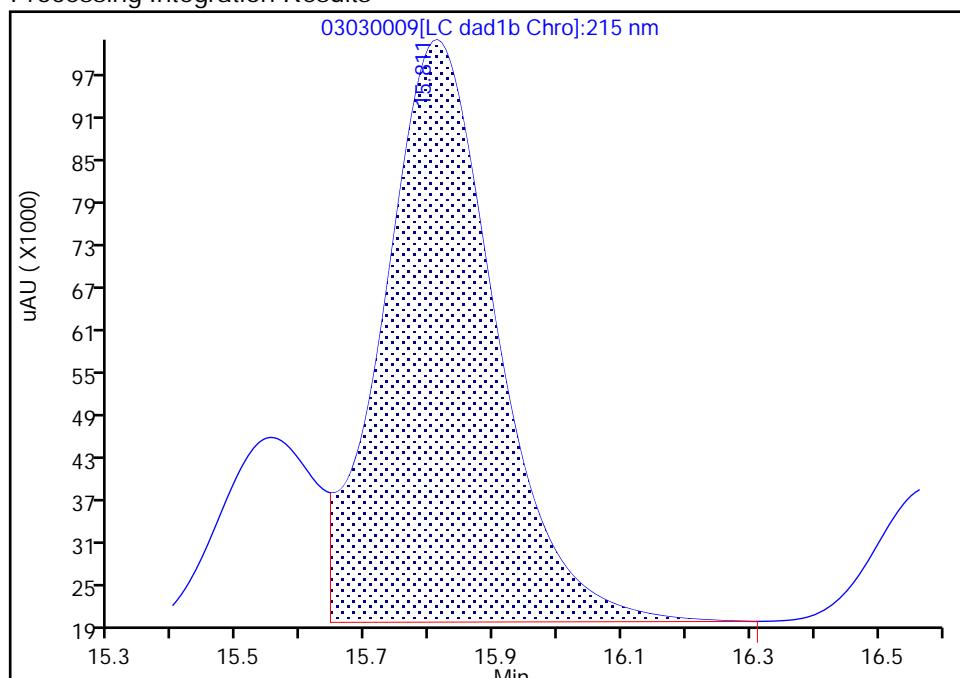
Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030009.d
 Injection Date: 03-Mar-2020 19:11:30 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC FULL 6
 Client ID:
 Operator ID: CB ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Detector LC DAD1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

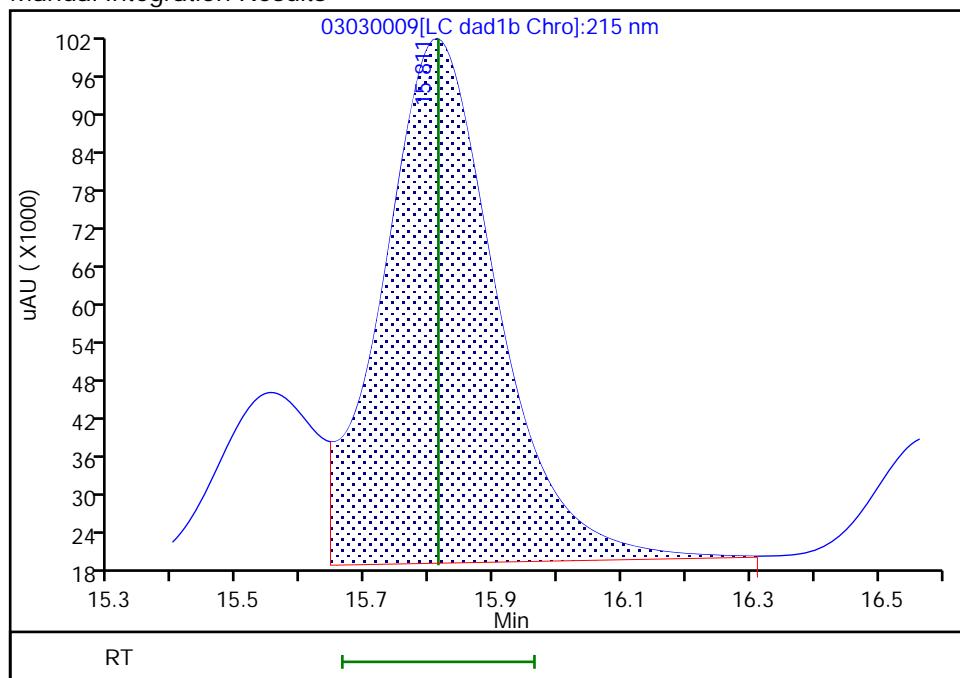
RT: 15.81
 Area: 1002262
 Amount: 5.606804
 Amount Units: ug/ml

Processing Integration Results



RT: 15.81
 Area: 1031302
 Amount: 7.251537
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 04-Mar-2020 08:22:41

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030010.D
 Lims ID: IC FULL 5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 03-Mar-2020 19:46:29 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC FULL 5
 Misc. Info.: 280-0089749-010
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub6
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 05-Mar-2020 11:40:07 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0319

First Level Reviewer: beckerc

Date:

04-Mar-2020 08:23:14

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	4.360	4.360	0.000	186279	0.4000	0.3909	
2 2,4-diamino-6-nitrotoluene	1	4.913	4.913	0.000	115169	0.4000	0.3995	
5 2,4,6-Trinitrophenol	1	5.587	5.587	0.000	66900	0.4000	0.4123	
6 HMX	1	6.947	6.947	0.000	72696	0.4000	0.4093	
8 RDX	1	9.120	9.120	0.000	88543	0.4000	0.4102	
9 Nitrobenzene	1	12.113	12.113	0.000	162066	0.4016	0.4126	
\$ 10 1,2-Dinitrobenzene	1	13.033	13.033	0.000	116432	0.4000	0.4161	
11 3,5-Dinitroaniline	1	14.853	14.853	0.000	218697	0.4000	0.4033	
12 1,3-Dinitrobenzene	1	15.553	15.553	0.000	268452	0.4008	0.4097	
13 Nitroglycerin	2	15.813	15.813	0.000	585948	4.00	4.06	M
14 o-Nitrotoluene	1	16.580	16.580	0.000	95809	0.4000	0.4159	
15 p-Nitrotoluene	1	16.853	16.853	0.000	92165	0.4008	0.4198	
16 4-Amino-2,6-dinitrotoluene	1	17.160	17.160	0.000	133443	0.4004	0.4098	
17 m-Nitrotoluene	1	17.787	17.787	0.000	96326	0.4004	0.4205	
18 2-Amino-4,6-dinitrotoluene	1	18.013	18.013	0.000	198992	0.4016	0.4048	
19 1,3,5-Trinitrobenzene	1	18.907	18.907	0.000	190066	0.4008	0.4048	
20 2,6-Dinitrotoluene	1	19.853	19.853	0.000	117549	0.4016	0.4115	
21 2,4-Dinitrotoluene	1	20.320	20.320	0.000	248133	0.4016	0.4088	
22 Tetryl	1	23.580	23.580	0.000	146610	0.4008	0.4137	
23 2,4,6-Trinitrotoluene	1	24.713	24.713	0.000	168457	0.4016	0.4129	
24 PETN	2	25.293	25.293	0.000	573634	4.00	3.95	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 40.00 Units: uL

8330_ADDs_00023

Amount Added: 20.00 Units: uL

Report Date: 05-Mar-2020 11:40:07

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200303-89749.b\\03030010.d

Injection Date: 03-Mar-2020 19:46:29

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC FULL 5

Worklist Smp#: 10

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

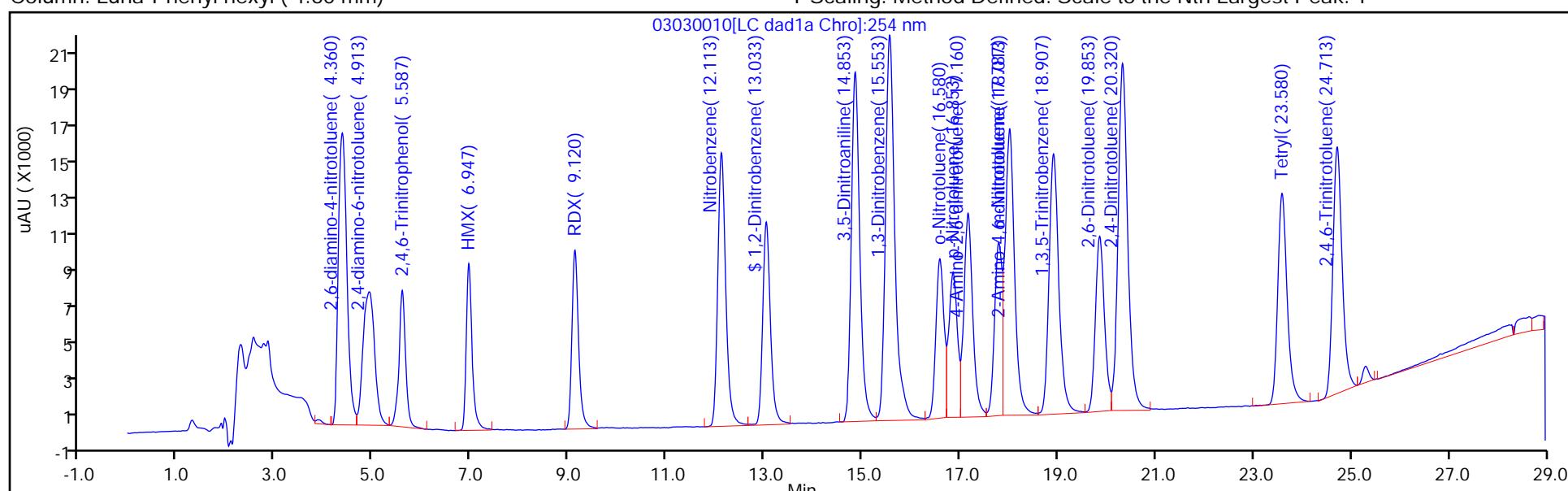
ALS Bottle#: 10

Method: G2_8330_Luna

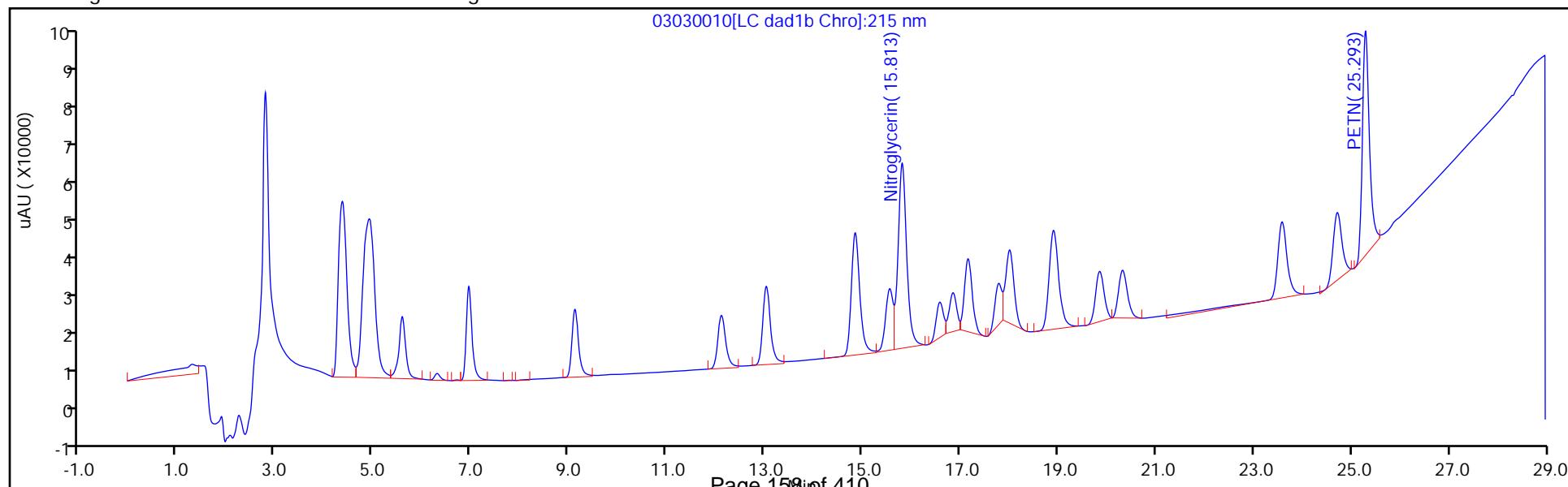
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

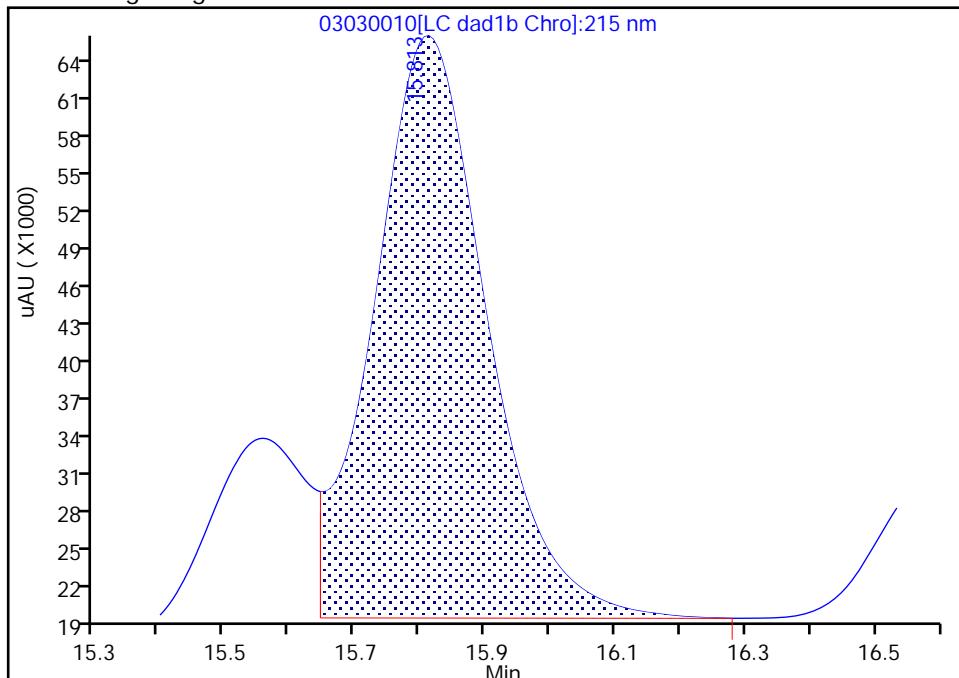
Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030010.d
 Injection Date: 03-Mar-2020 19:46:29 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC FULL 5
 Client ID:
 Operator ID: CB ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Detector LC DAD1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

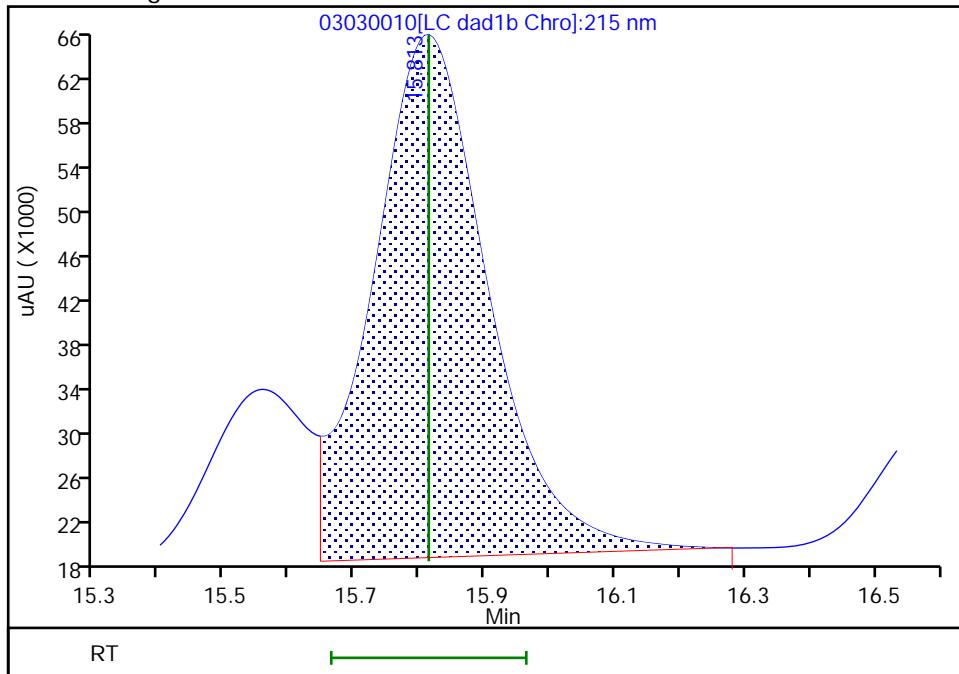
Processing Integration Results

RT: 15.81
 Area: 563566
 Amount: 3.143553
 Amount Units: ug/ml



Manual Integration Results

RT: 15.81
 Area: 585948
 Amount: 4.063305
 Amount Units: ug/ml



Reviewer: beckerc, 04-Mar-2020 08:23:09

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030011.D
 Lims ID: IC FULL 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 03-Mar-2020 20:21:37 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC FULL 4
 Misc. Info.: 280-0089749-011
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub6
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 05-Mar-2020 11:40:08 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0319

First Level Reviewer: beckerc

Date:

05-Mar-2020 08:50:22

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	4.364	4.360	0.004	110706	0.2500	0.2323	
2 2,4-diamino-6-nitrotoluene	1	4.917	4.913	0.004	68062	0.2500	0.2365	
5 2,4,6-Trinitrophenol	1	5.617	5.587	0.030	40098	0.2500	0.2435	
6 HMX	1	6.957	6.947	0.010	44874	0.2500	0.2484	
8 RDX	1	9.130	9.120	0.010	54749	0.2500	0.2486	
9 Nitrobenzene	1	12.124	12.113	0.011	96431	0.2510	0.2415	
\$ 10 1,2-Dinitrobenzene	1	13.037	13.033	0.004	71040	0.2500	0.2487	
11 3,5-Dinitroaniline	1	14.857	14.853	0.004	128545	0.2500	0.2366	
12 1,3-Dinitrobenzene	1	15.564	15.553	0.011	163979	0.2505	0.2458	
13 Nitroglycerin	2	15.817	15.813	0.004	371375	2.50	2.53	M
14 o-Nitrotoluene	1	16.590	16.580	0.010	56559	0.2500	0.2417	
15 p-Nitrotoluene	1	16.864	16.853	0.011	54442	0.2505	0.2440	
16 4-Amino-2,6-dinitrotoluene	1	17.164	17.160	0.004	82313	0.2503	0.2492	
17 m-Nitrotoluene	1	17.790	17.787	0.003	57201	0.2503	0.2464	
18 2-Amino-4,6-dinitrotoluene	1	18.017	18.013	0.004	123151	0.2510	0.2507	
19 1,3,5-Trinitrobenzene	1	18.910	18.907	0.003	118691	0.2505	0.2495	
20 2,6-Dinitrotoluene	1	19.857	19.853	0.004	72212	0.2510	0.2489	
21 2,4-Dinitrotoluene	1	20.324	20.320	0.004	153397	0.2510	0.2488	
22 Tetryl	1	23.584	23.580	0.004	90558	0.2505	0.2504	
23 2,4,6-Trinitrotoluene	1	24.710	24.713	-0.003	102827	0.2510	0.2484	
24 PETN	2	25.290	25.293	-0.003	340351	2.50	2.31	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 25.00 Units: uL

8330_ADDs_00023

Amount Added: 12.50 Units: uL

Report Date: 05-Mar-2020 11:40:08

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200303-89749.b\\03030011.d

Injection Date: 03-Mar-2020 20:21:37

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC FULL 4

Worklist Smp#: 11

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

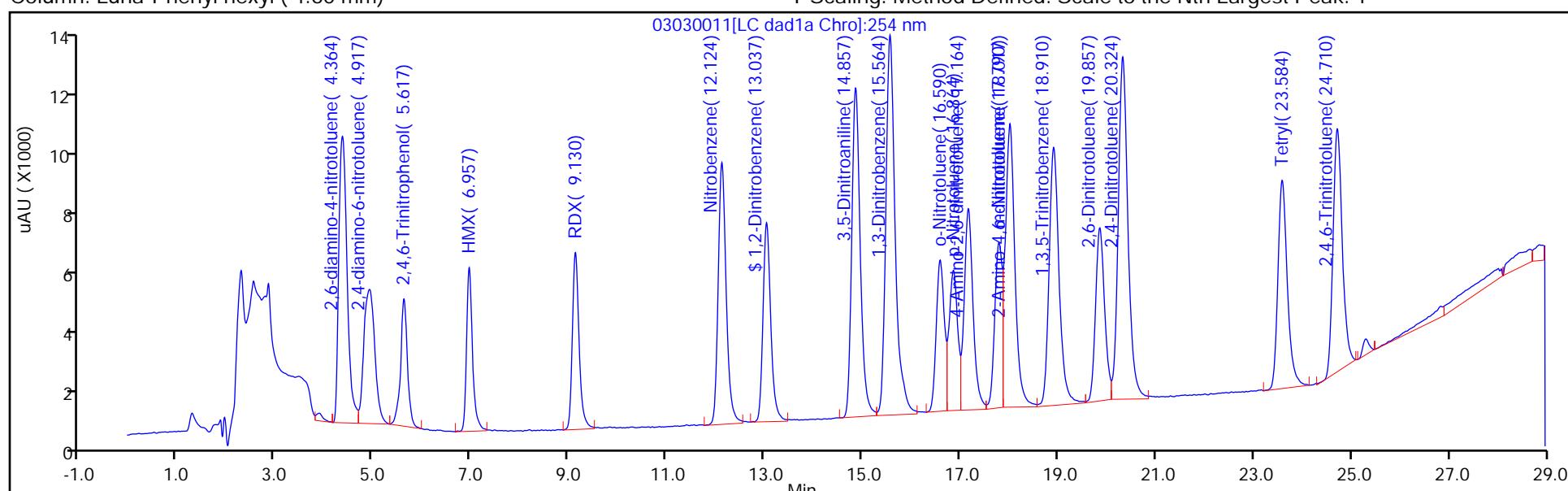
ALS Bottle#: 11

Method: G2_8330_Luna

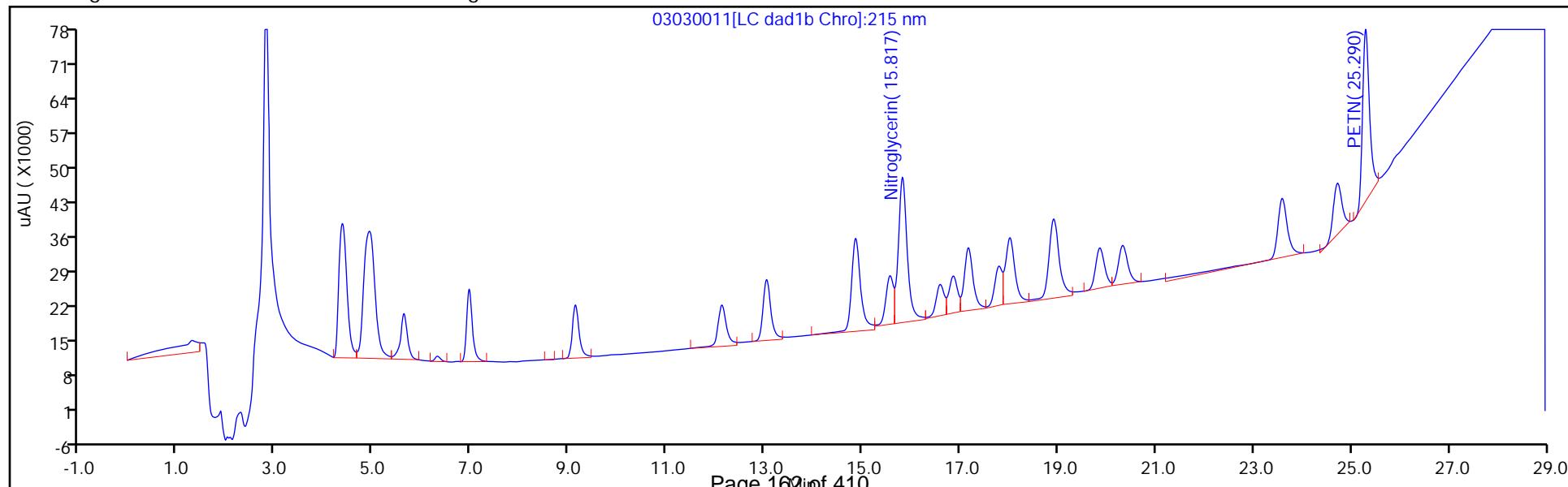
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

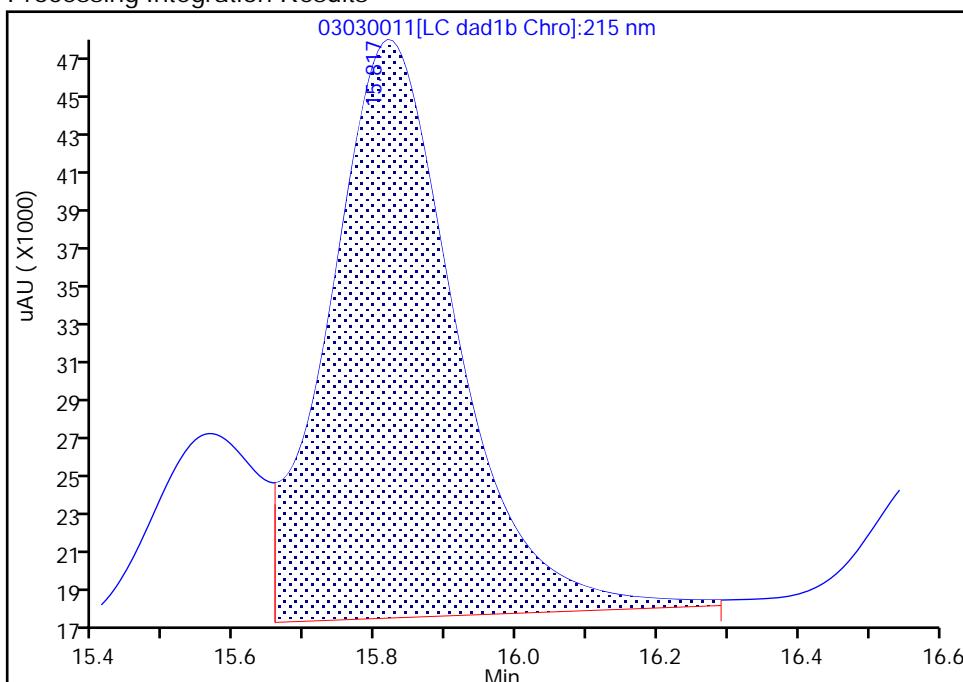
Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030011.d
 Injection Date: 03-Mar-2020 20:21:37 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC FULL 4
 Client ID:
 Operator ID: CB ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Detector LC DAD1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

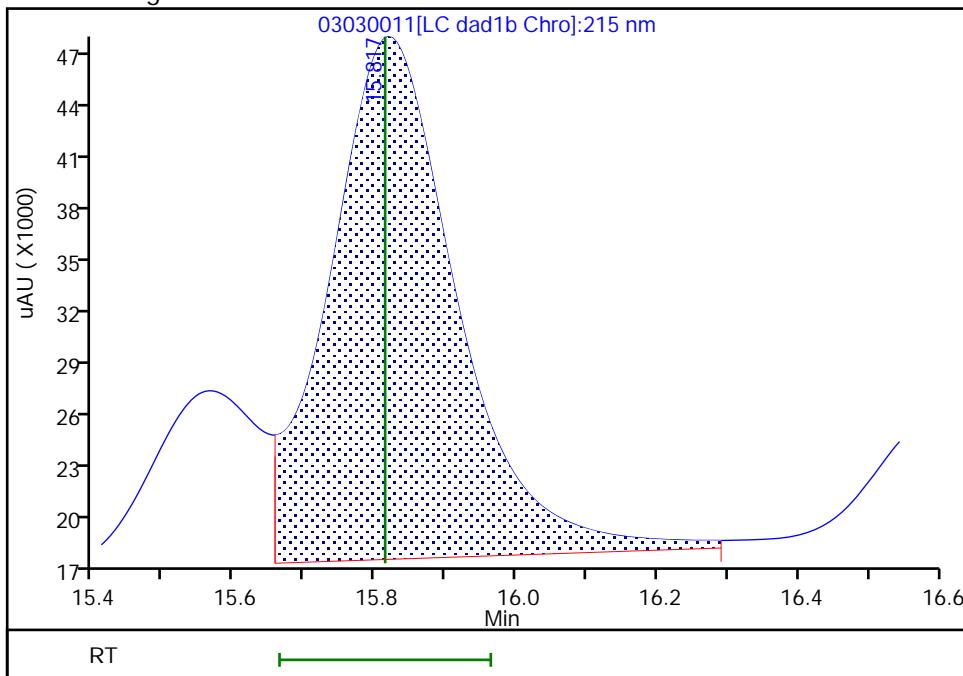
RT: 15.82
 Area: 365808
 Amount: 2.032536
 Amount Units: ug/ml

Processing Integration Results



RT: 15.82
 Area: 371375
 Amount: 2.527204
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 04-Mar-2020 08:23:53

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

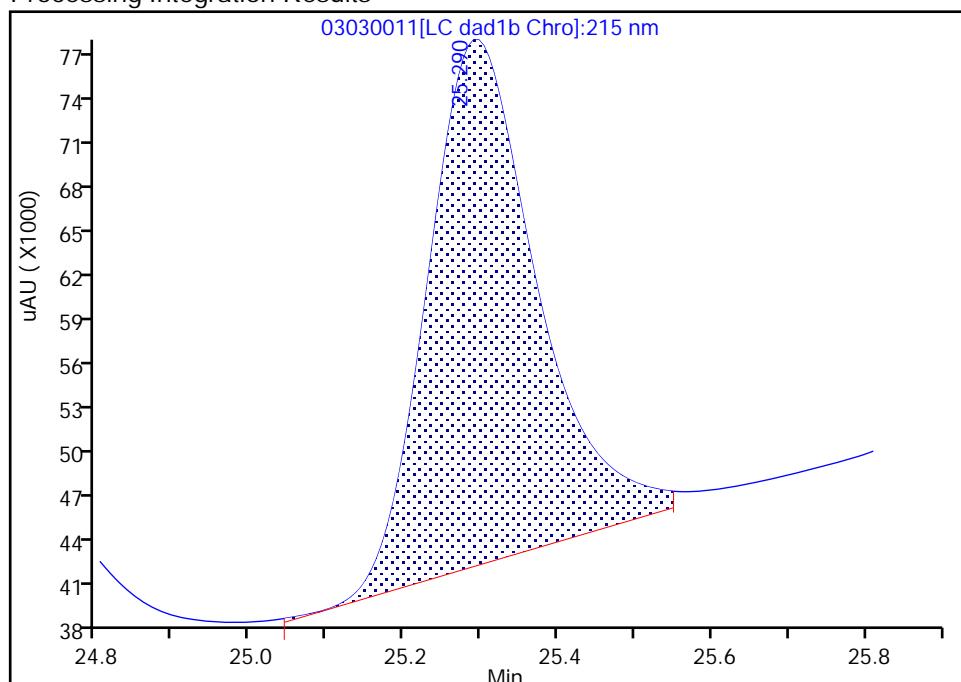
Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030011.d
 Injection Date: 03-Mar-2020 20:21:37 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC FULL 4
 Client ID:
 Operator ID: CB ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Detector LC DAD1B, 215 nm

24 PETN, CAS: 78-11-5

Signal: 1

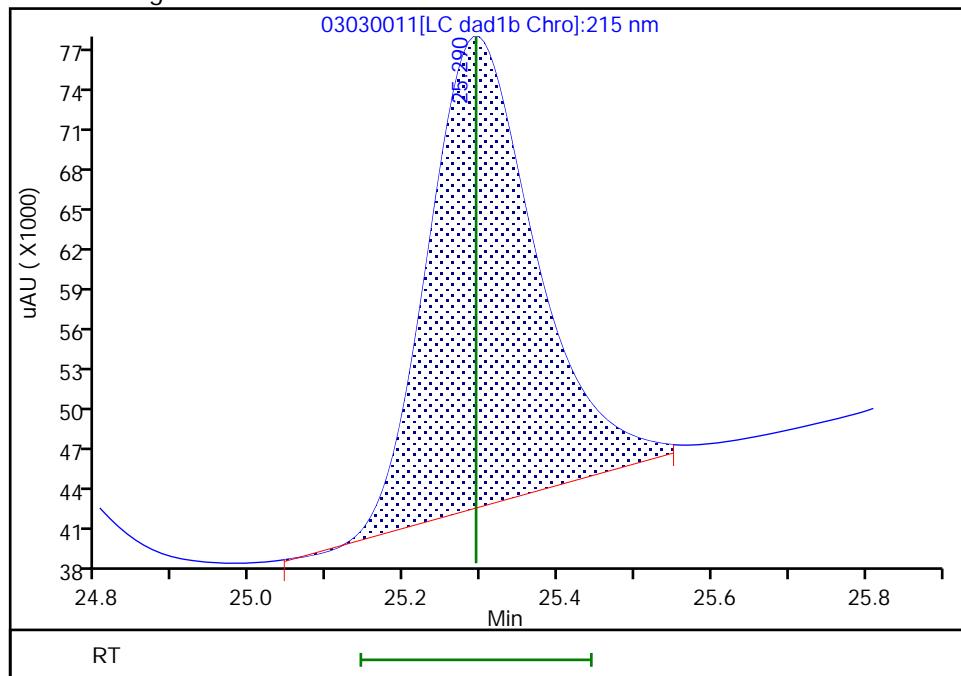
RT: 25.29
 Area: 349715
 Amount: 2.284475
 Amount Units: ug/ml

Processing Integration Results



RT: 25.29
 Area: 340351
 Amount: 2.313232
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 04-Mar-2020 08:23:43

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030012.D
 Lims ID: IC FULL 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 03-Mar-2020 20:56:37 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC FULL 3
 Misc. Info.: 280-0089749-012
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub6
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 05-Mar-2020 11:40:09 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0319

First Level Reviewer: beckerc

Date:

04-Mar-2020 08:24:34

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	4.359	4.360	-0.001	47982	0.1000	0.1007	
2 2,4-diamino-6-nitrotoluene	1	4.913	4.913	0.000	30408	0.1000	0.1061	
5 2,4,6-Trinitrophenol	1	5.639	5.587	0.052	16293	0.1000	0.0936	
6 HMX	1	6.953	6.947	0.006	18555	0.1000	0.0963	
8 RDX	1	9.126	9.120	0.006	23229	0.1000	0.0978	
9 Nitrobenzene	1	12.126	12.113	0.013	40194	0.1004	0.0950	
\$ 10 1,2-Dinitrobenzene	1	13.039	13.033	0.006	29331	0.1000	0.0949	
11 3,5-Dinitroaniline	1	14.859	14.853	0.006	55437	0.1000	0.1014	
12 1,3-Dinitrobenzene	1	15.566	15.553	0.013	70115	0.1002	0.0985	
13 Nitroglycerin	2	15.819	15.813	0.006	156826	1.00	0.99	
14 o-Nitrotoluene	1	16.586	16.580	0.006	24201	0.1000	0.0981	
15 p-Nitrotoluene	1	16.859	16.853	0.006	22773	0.1002	0.0964	
16 4-Amino-2,6-dinitrotoluene	1	17.166	17.160	0.006	33842	0.1001	0.0970	
17 m-Nitrotoluene	1	17.792	17.787	0.005	23418	0.1001	0.0960	
18 2-Amino-4,6-dinitrotoluene	1	18.012	18.013	-0.001	51105	0.1004	0.1006	
19 1,3,5-Trinitrobenzene	1	18.912	18.907	0.005	47833	0.1002	0.0953	
20 2,6-Dinitrotoluene	1	19.852	19.853	-0.001	29966	0.1004	0.0974	
21 2,4-Dinitrotoluene	1	20.319	20.320	-0.001	64047	0.1004	0.0979	
22 Tetryl	1	23.579	23.580	-0.001	36807	0.1002	0.0938	
23 2,4,6-Trinitrotoluene	1	24.706	24.713	-0.007	42666	0.1004	0.0975	
24 PETN	2	25.293	25.293	0.000	137231	1.00	0.8842	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 10.00 Units: uL

8330_ADDs_00023

Amount Added: 5.00 Units: uL

Report Date: 05-Mar-2020 11:40:09

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200303-89749.b\\03030012.d

Injection Date: 03-Mar-2020 20:56:37

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC FULL 3

Worklist Smp#: 12

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

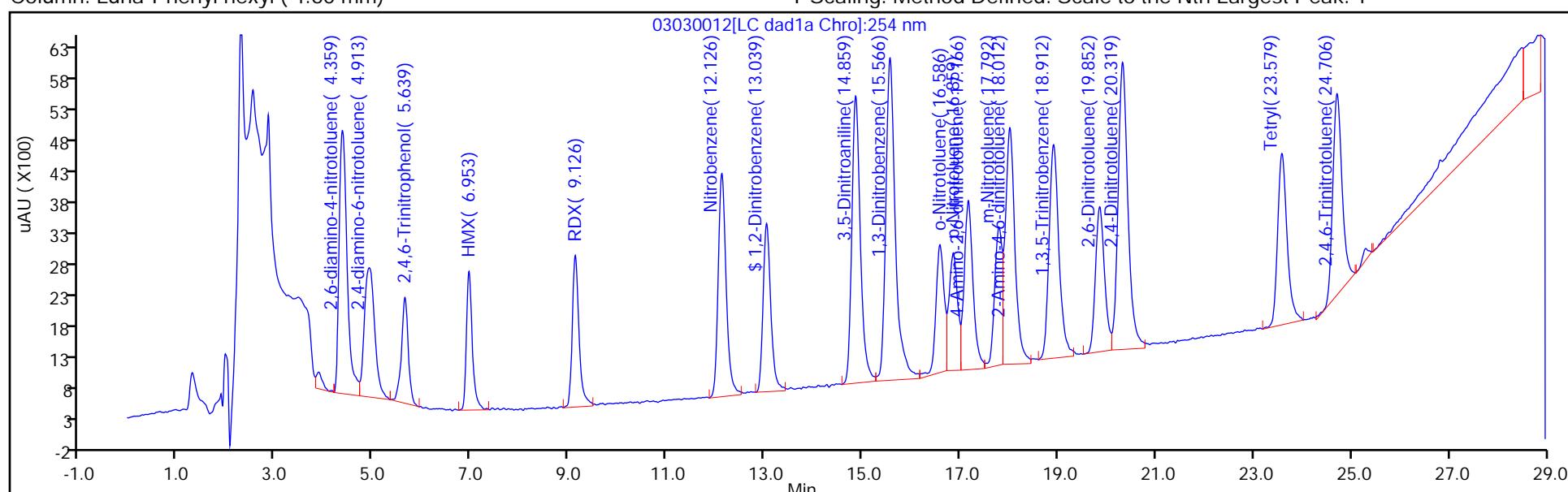
ALS Bottle#: 12

Method: G2_8330_Luna

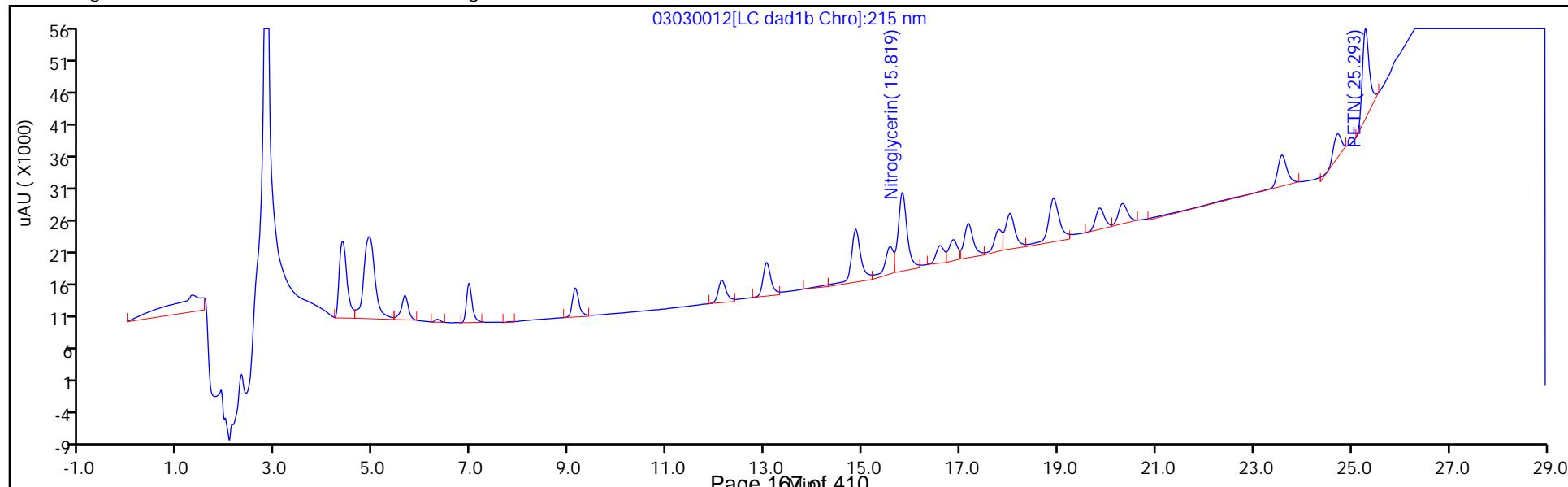
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

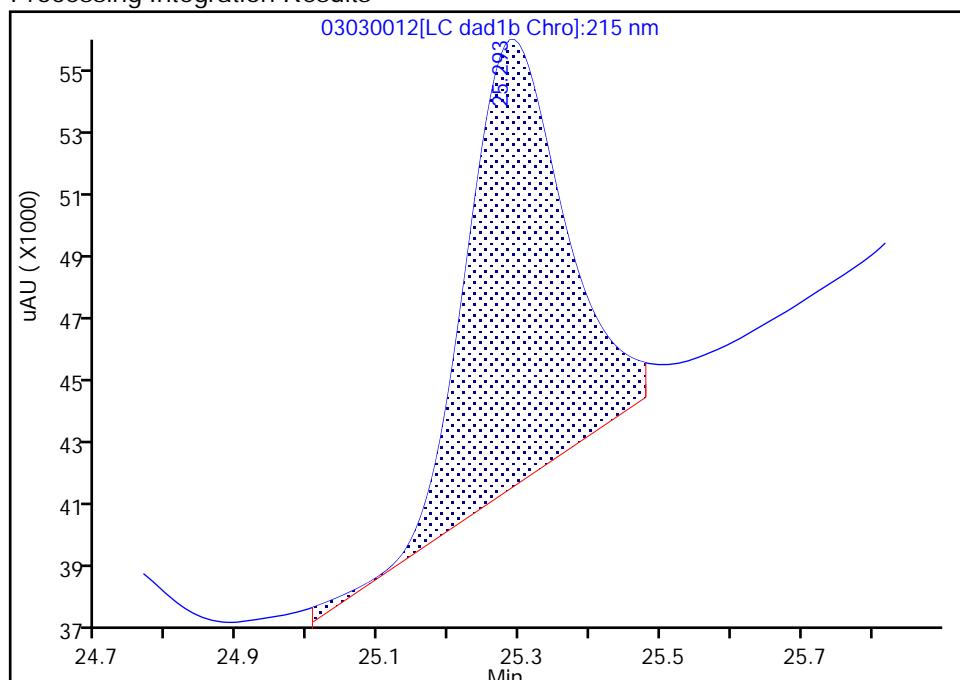
Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030012.d
 Injection Date: 03-Mar-2020 20:56:37 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC FULL 3
 Client ID:
 Operator ID: CB ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Detector LC DAD1B, 215 nm

24 PETN, CAS: 78-11-5

Signal: 1

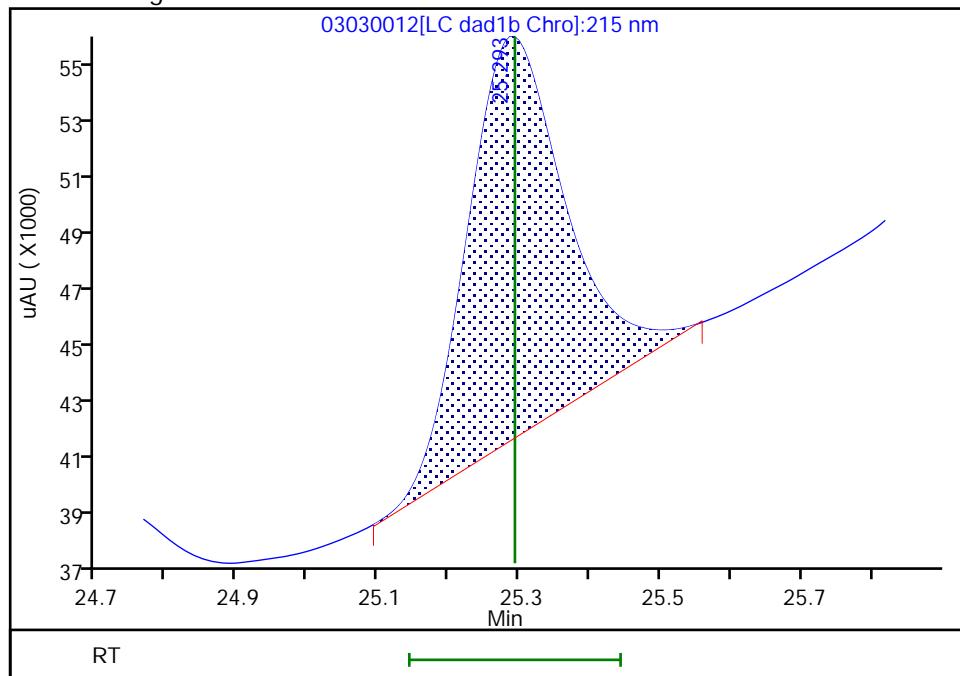
RT: 25.29
 Area: 137961
 Amount: 0.771631
 Amount Units: ug/ml

Processing Integration Results



RT: 25.29
 Area: 137231
 Amount: 0.884195
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 04-Mar-2020 08:24:16

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030013.D
 Lims ID: IC FULL 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 03-Mar-2020 21:31:32 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC FULL 2
 Misc. Info.: 280-0089749-013
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub6
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 05-Mar-2020 11:40:09 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0319

First Level Reviewer: beckerc

Date:

04-Mar-2020 08:25:34

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	4.369	4.360	0.009	24893	0.0500	0.0522	
2 2,4-diamino-6-nitrotoluene	1	4.916	4.913	0.003	15782	0.0500	0.0555	
5 2,4,6-Trinitrophenol	1	5.669	5.587	0.082	8266	0.0500	0.0430	
6 HMX	1	6.963	6.947	0.016	9479	0.0500	0.0439	
8 RDX	1	9.143	9.120	0.023	11532	0.0500	0.0419	
9 Nitrobenzene	1	12.129	12.113	0.016	19985	0.0502	0.0423	
\$ 10 1,2-Dinitrobenzene	1	13.043	13.033	0.010	14905	0.0500	0.0417	
11 3,5-Dinitroaniline	1	14.863	14.853	0.010	27791	0.0500	0.0503	
12 1,3-Dinitrobenzene	1	15.569	15.553	0.016	34762	0.0501	0.0431	
13 Nitroglycerin	2	15.816	15.813	0.003	78861	0.5000	0.4331	
14 o-Nitrotoluene	1	16.596	16.580	0.016	11484	0.0500	0.0416	
15 p-Nitrotoluene	1	16.856	16.853	0.003	11346	0.0501	0.0432	
16 4-Amino-2,6-dinitrotoluene	1	17.169	17.160	0.009	17436	0.0501	0.0455	
17 m-Nitrotoluene	1	17.796	17.787	0.009	11864	0.0501	0.0446	
18 2-Amino-4,6-dinitrotoluene	1	18.016	18.013	0.003	25720	0.0502	0.0468	
19 1,3,5-Trinitrobenzene	1	18.909	18.907	0.002	26381	0.0501	0.0486	
20 2,6-Dinitrotoluene	1	19.856	19.853	0.003	15001	0.0502	0.0438	
21 2,4-Dinitrotoluene	1	20.323	20.320	0.003	31789	0.0502	0.0435	
22 Tetryl	1	23.589	23.580	0.009	18453	0.0501	0.0403	
23 2,4,6-Trinitrotoluene	1	24.716	24.713	0.003	20451	0.0502	0.0418	
24 PETN	2	25.296	25.293	0.003	64339	0.5000	0.3714	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 5.00 Units: uL

8330_ADDs_00023

Amount Added: 2.50 Units: uL

Report Date: 05-Mar-2020 11:40:10

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200303-89749.b\\03030013.d

Injection Date: 03-Mar-2020 21:31:32

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC FULL 2

Worklist Smp#: 13

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

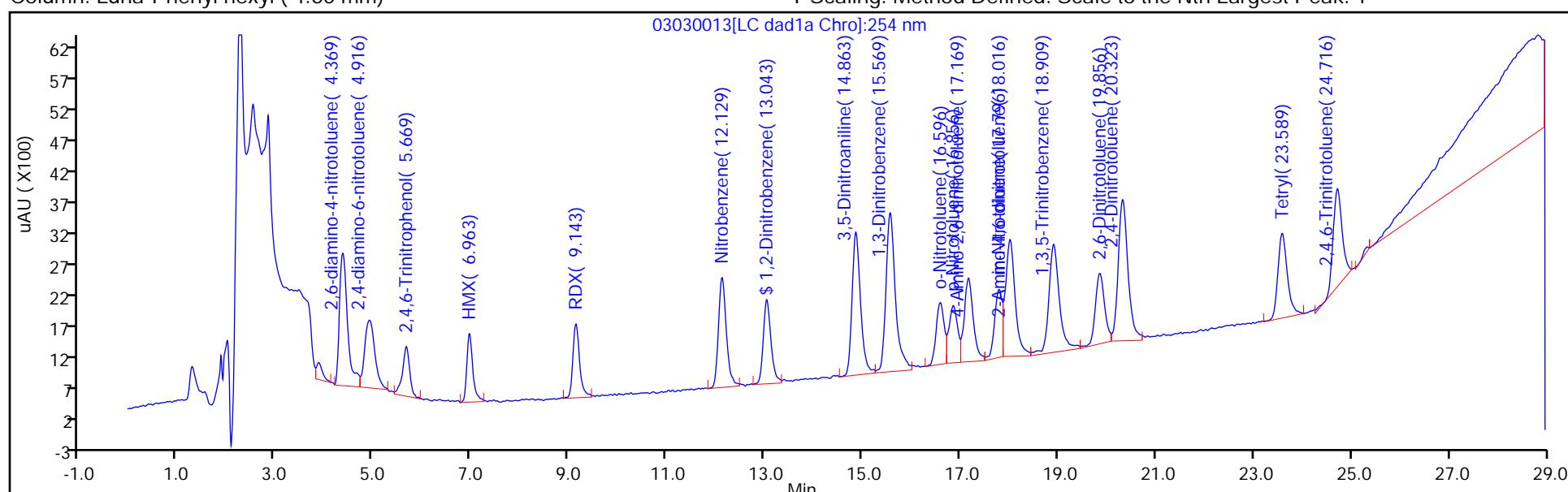
ALS Bottle#: 13

Method: G2_8330_Luna

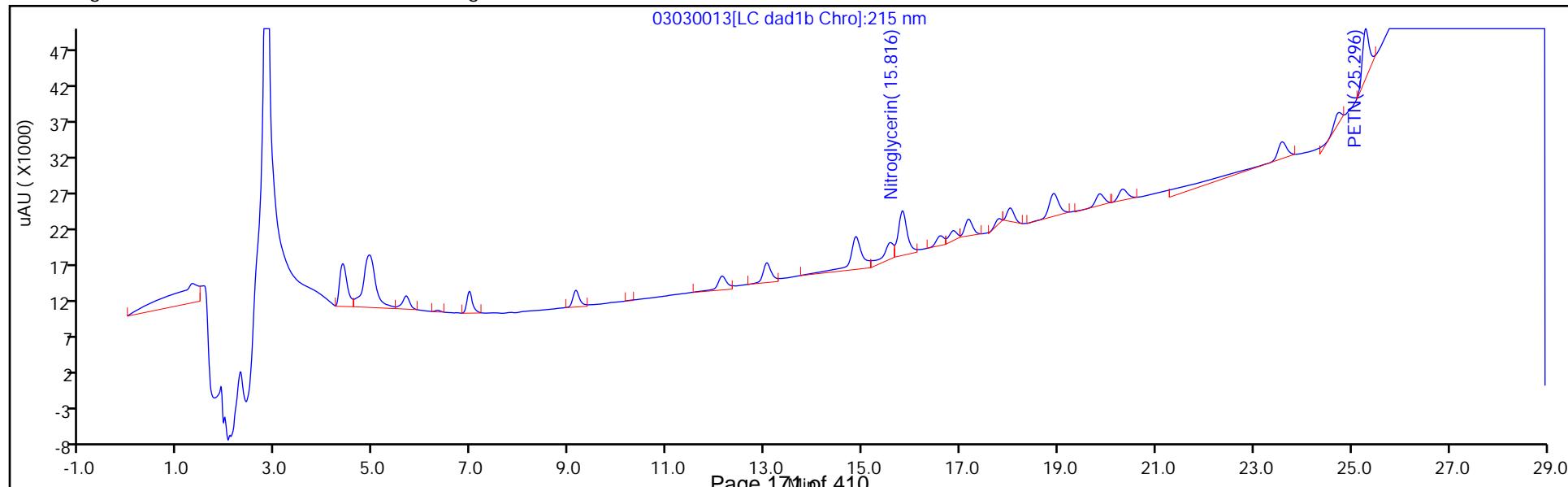
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

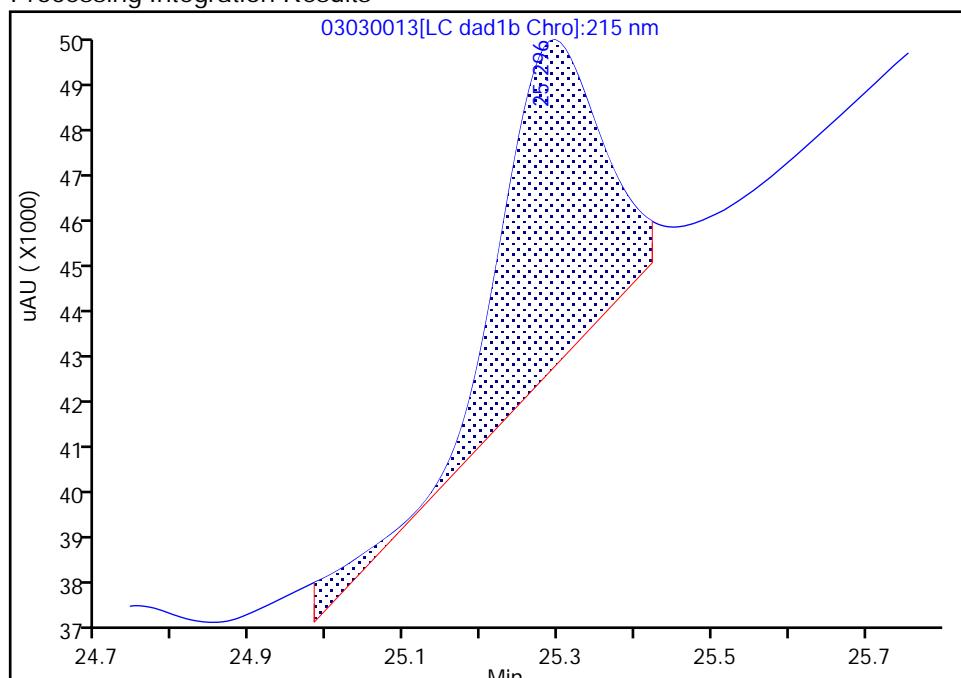
Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030013.d
 Injection Date: 03-Mar-2020 21:31:32 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC FULL 2
 Client ID:
 Operator ID: CB ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Detector LC DAD1B, 215 nm

24 PETN, CAS: 78-11-5

Signal: 1

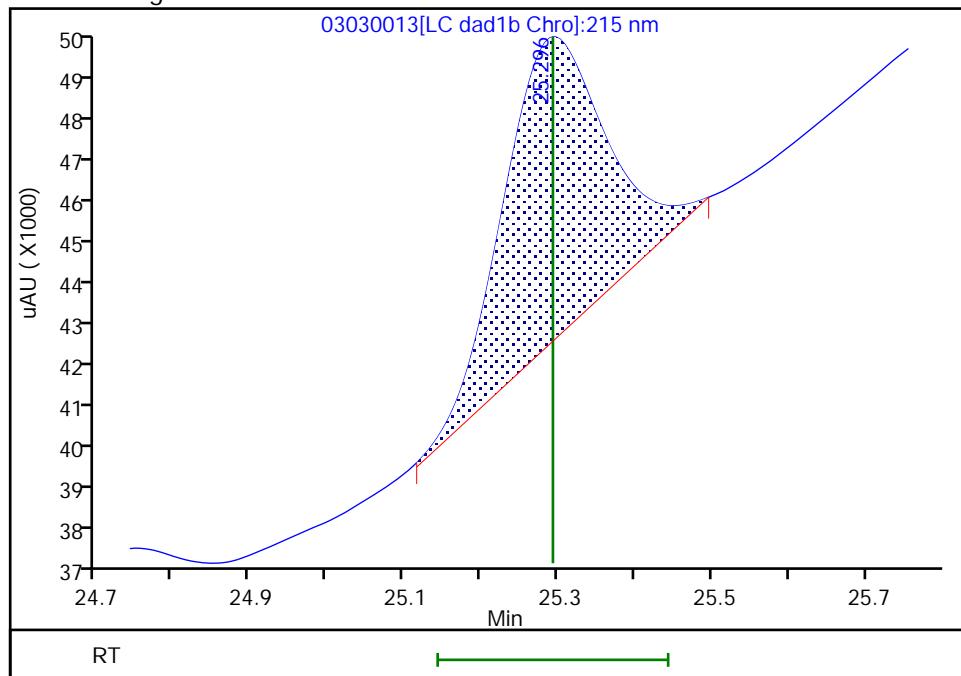
RT: 25.30
 Area: 62227
 Amount: 0.229536
 Amount Units: ug/ml

Processing Integration Results



RT: 25.30
 Area: 64339
 Amount: 0.371369
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 04-Mar-2020 08:24:58

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030014.D
 Lims ID: IC FULL 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 03-Mar-2020 22:06:26 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC FULL 1
 Misc. Info.: 280-0089749-014
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub6
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 05-Mar-2020 11:40:10 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0319

First Level Reviewer: beckerc

Date:

04-Mar-2020 08:28:16

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	4.359	4.360	-0.001	9912	0.0200	0.0208	M
2 2,4-diamino-6-nitrotoluene	1	4.912	4.913	-0.001	4831	0.0200	0.0176	M
5 2,4,6-Trinitrophenol	1	5.672	5.587	0.085	3072	0.0100	0.0103	
6 HMX	1	6.945	6.947	-0.002	3664	0.0100	0.0103	
8 RDX	1	9.125	9.120	0.005	4935	0.0100	0.0103	
9 Nitrobenzene	1	12.119	12.113	0.006	7752	0.0100	0.0104	
\$ 10 1,2-Dinitrobenzene	1	13.032	13.033	-0.001	6405	0.0100	0.0104	
11 3,5-Dinitroaniline	1	14.852	14.853	-0.001	11388	0.0200	0.0200	M
12 1,3-Dinitrobenzene	1	15.559	15.553	0.006	13866	0.0100	0.0103	M
13 Nitroglycerin	2	15.812	15.813	-0.001	32688	0.1000	0.1026	M
14 o-Nitrotoluene	1	16.579	16.580	-0.001	4434	0.0100	0.0103	M
15 p-Nitrotoluene	1	16.852	16.853	-0.001	4289	0.0100	0.0103	M
16 4-Amino-2,6-dinitrotoluene	1	17.165	17.160	0.005	6211	0.0100	0.0102	M
17 m-Nitrotoluene	1	17.772	17.787	-0.015	4144	0.0100	0.0103	M
18 2-Amino-4,6-dinitrotoluene	1	18.005	18.013	-0.008	9484	0.0100	0.0121	M
19 1,3,5-Trinitrobenzene	1	18.905	18.907	-0.002	8677	0.0100	0.0101	M
20 2,6-Dinitrotoluene	1	19.845	19.853	-0.008	5674	0.0100	0.0103	M
21 2,4-Dinitrotoluene	1	20.312	20.320	-0.008	12157	0.0100	0.0103	M
22 Tetryl	1	23.585	23.580	0.005	8212	0.0100	0.0105	
23 2,4,6-Trinitrotoluene	1	24.712	24.713	-0.001	7922	0.0100	0.0104	M
24 PETN	2	25.465	25.293	0.172	31969	0.1000	0.1436	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 1.00 Units: uL

8330_ADDs_00023

Amount Added: 1.00 Units: uL

Report Date: 05-Mar-2020 11:40:10

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200303-89749.b\\03030014.d

Injection Date: 03-Mar-2020 22:06:26

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC FULL 1

Worklist Smp#: 14

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

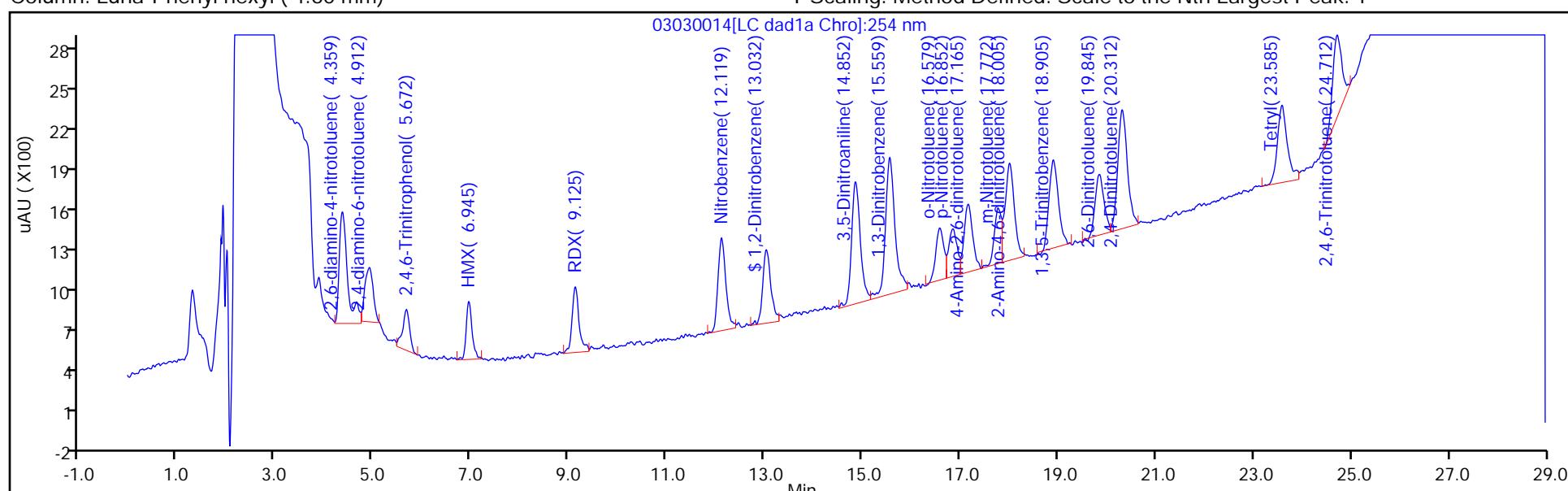
ALS Bottle#: 14

Method: G2_8330_Luna

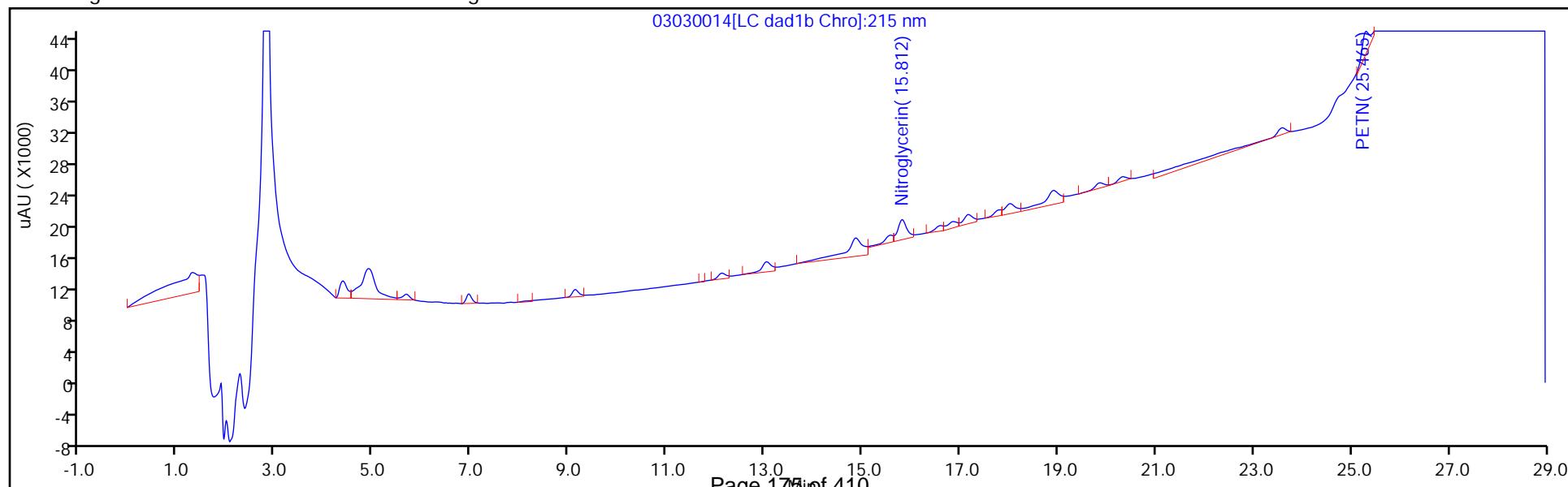
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

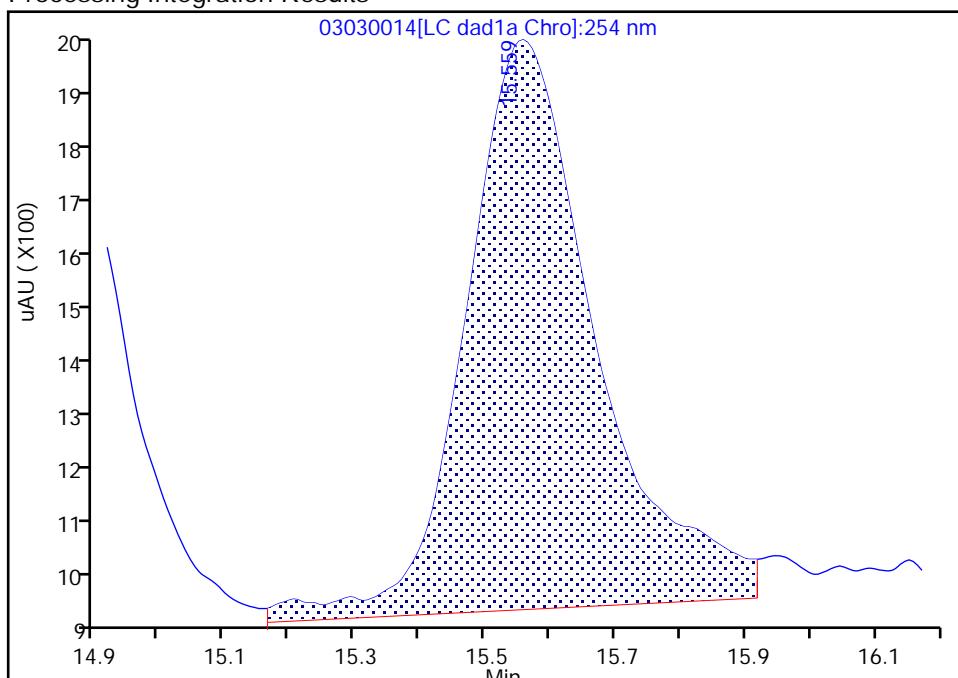
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 Injection Date: 03-Mar-2020 22:06:26 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC FULL 1
 Client ID:
 Operator ID: CB ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

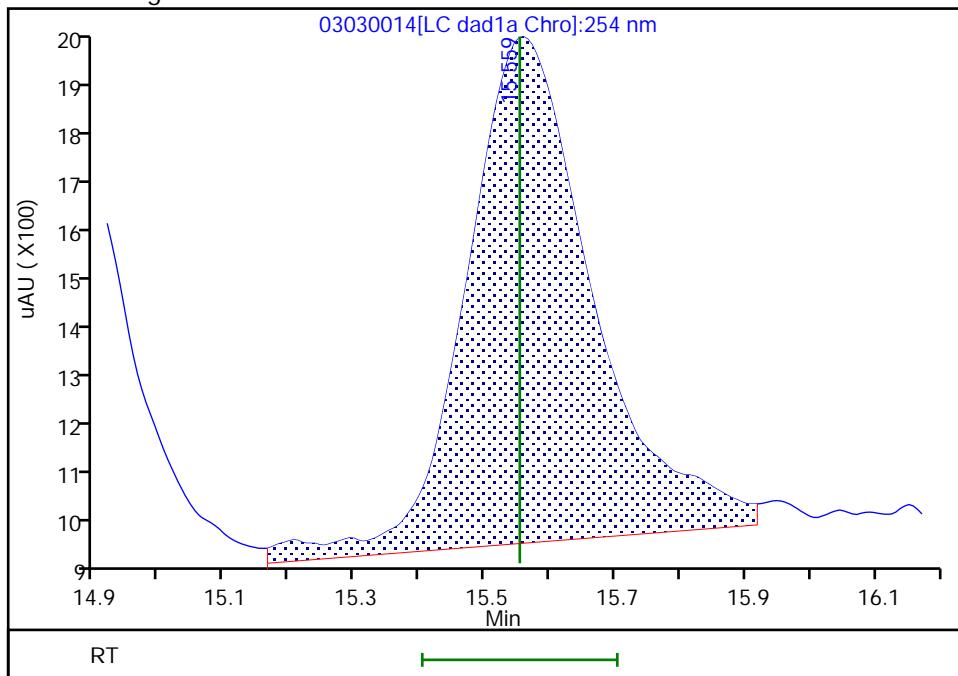
RT: 15.56
 Area: 14386
 Amount: 0.010336
 Amount Units: ug/ml

Processing Integration Results



RT: 15.56
 Area: 13866
 Amount: 0.010308
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 04-Mar-2020 08:28:10

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

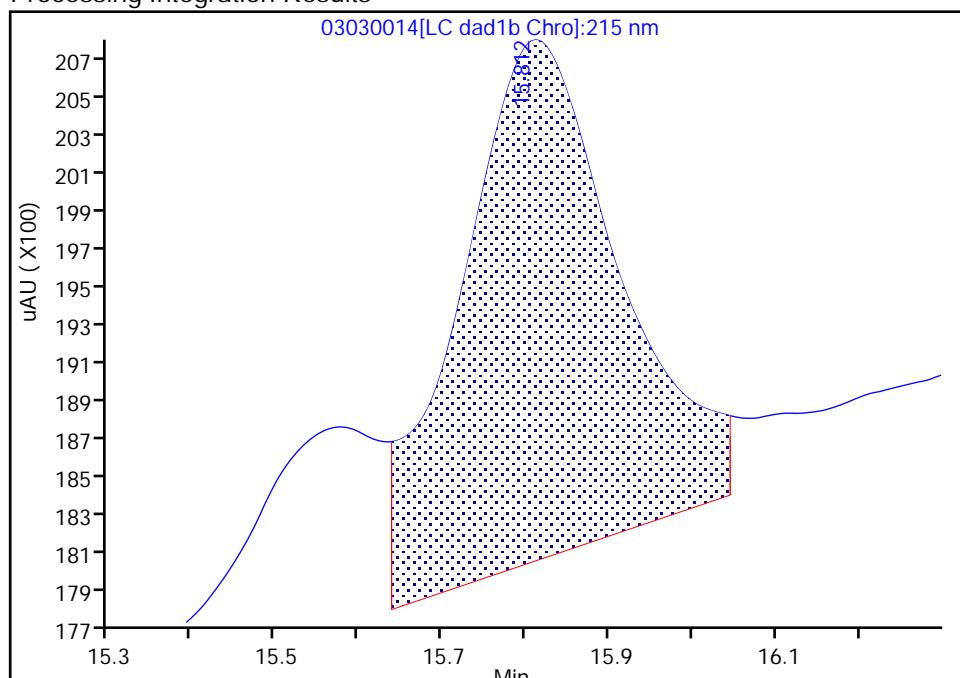
Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030014.d
 Injection Date: 03-Mar-2020 22:06:26 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC FULL 1
 Client ID:
 Operator ID: CB ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Detector LC DAD1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

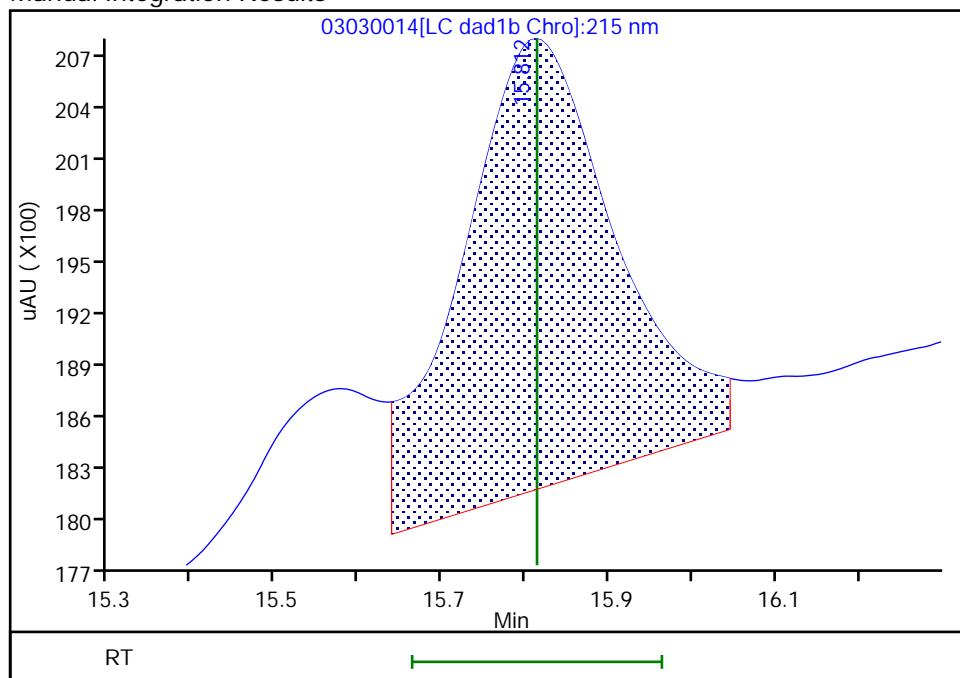
RT: 15.81
 Area: 35433
 Amount: 0.196572
 Amount Units: ug/ml

Processing Integration Results



RT: 15.81
 Area: 32688
 Amount: 0.102586
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 04-Mar-2020 08:27:58

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

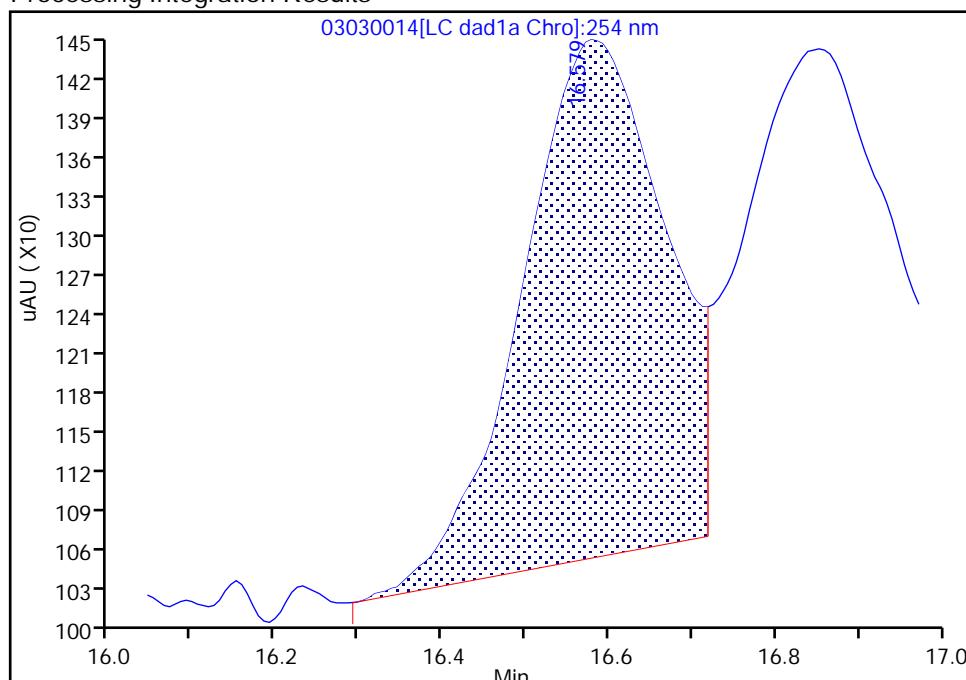
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 Injection Date: 03-Mar-2020 22:06:26 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC FULL 1
 Client ID:
 Operator ID: CB ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

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

Signal: 1

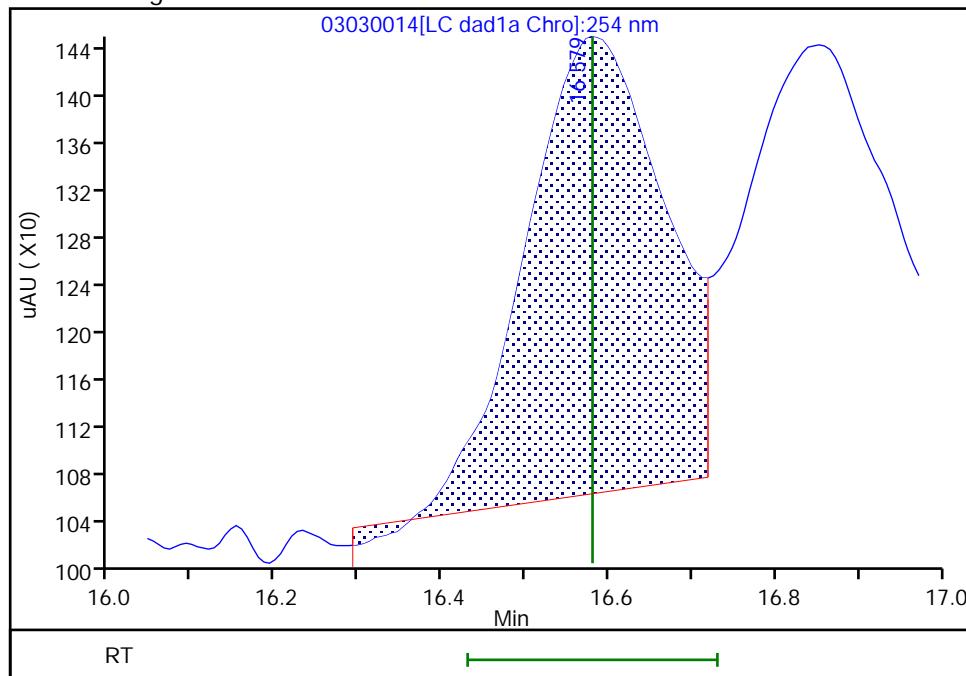
RT: 16.58
 Area: 4716
 Amount: 0.010380
 Amount Units: ug/ml

Processing Integration Results



RT: 16.58
 Area: 4434
 Amount: 0.010340
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 04-Mar-2020 08:28:10

Audit Action: Assigned New Baseline

Audit Reason: Baseline

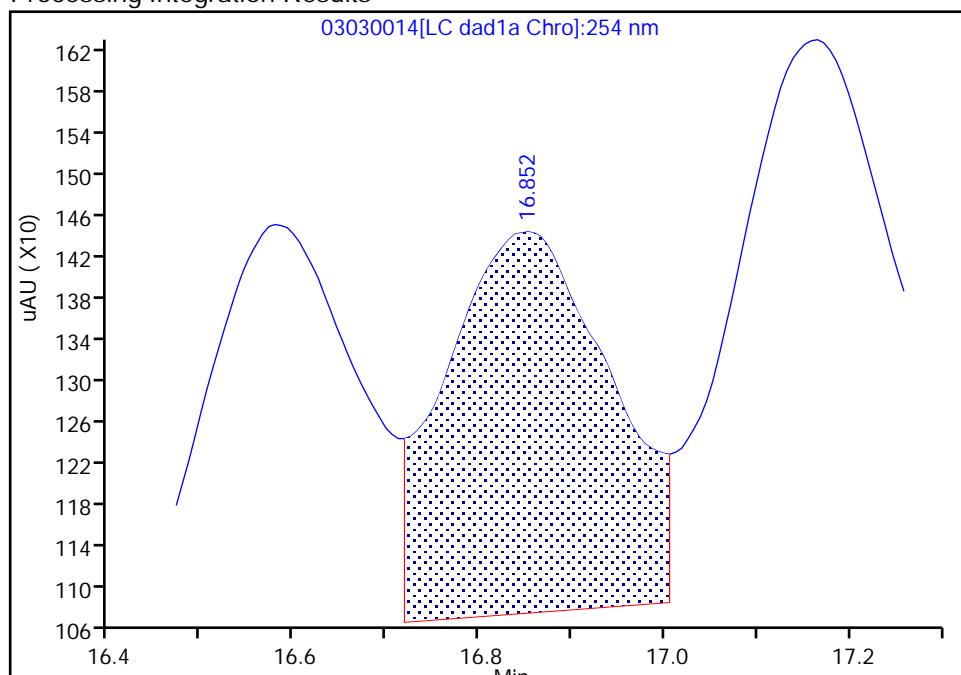
Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030014.d
 Injection Date: 03-Mar-2020 22:06:26 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC FULL 1
 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

15 p-Nitrotoluene, CAS: 99-99-0
Signal: 1

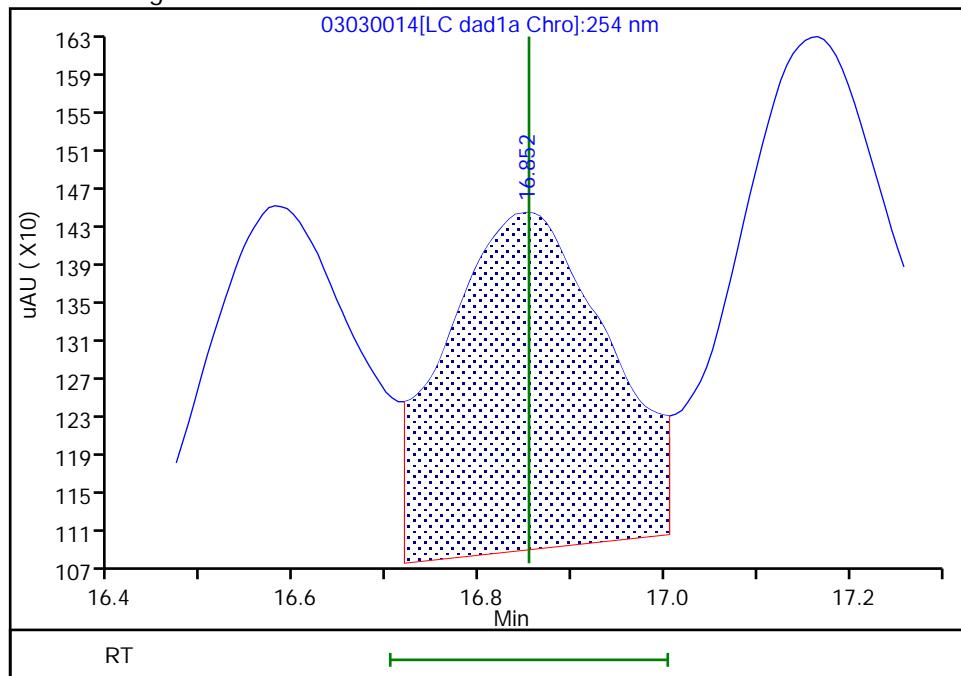
RT: 16.85
 Area: 4504
 Amount: 0.010349
 Amount Units: ug/ml

Processing Integration Results



RT: 16.85
 Area: 4289
 Amount: 0.010317
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 04-Mar-2020 08:28:10

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

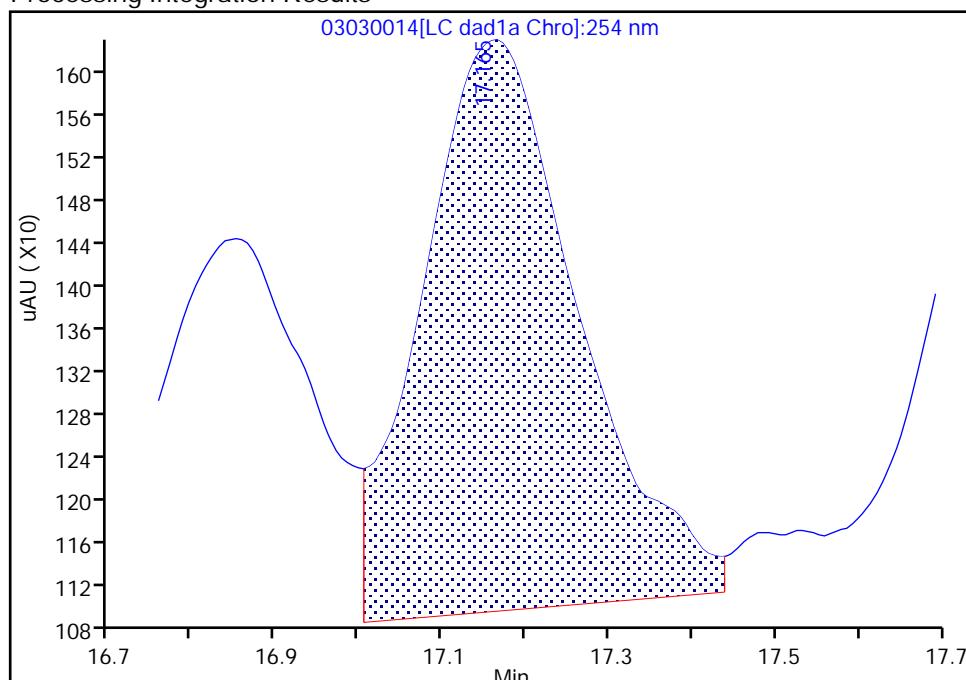
Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030014.d
 Injection Date: 03-Mar-2020 22:06:26 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC FULL 1
 Client ID:
 Operator ID: CB ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

16 4-Amino-2,6-dinitrotoluene, CAS: 19406-51-0

Signal: 1

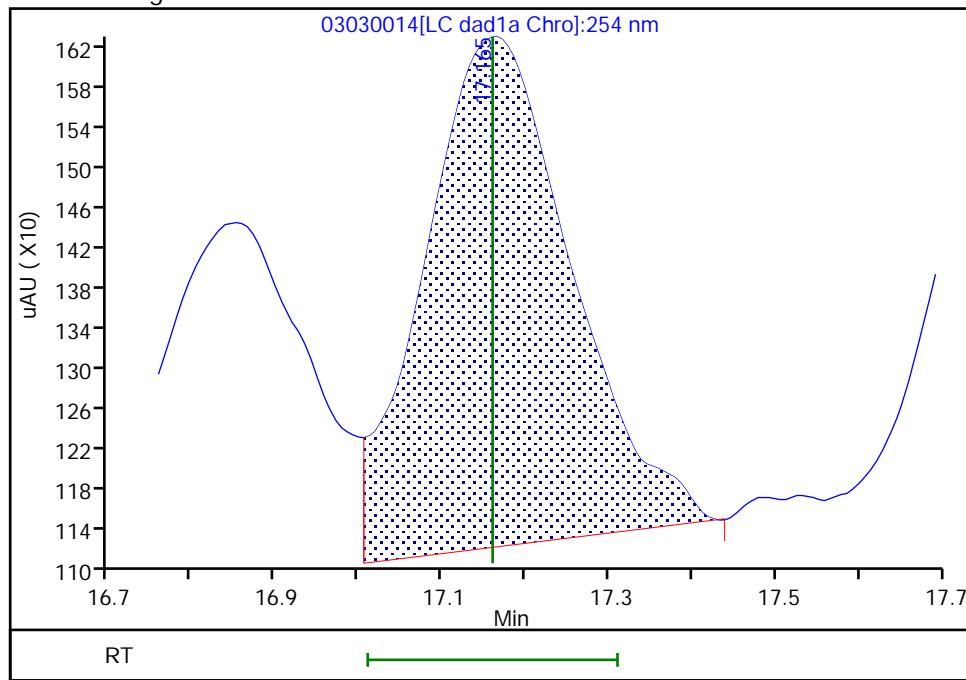
RT: 17.17
 Area: 6887
 Amount: 0.073603
 Amount Units: ug/ml

Processing Integration Results



RT: 17.17
 Area: 6211
 Amount: 0.010211
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 04-Mar-2020 08:28:10

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

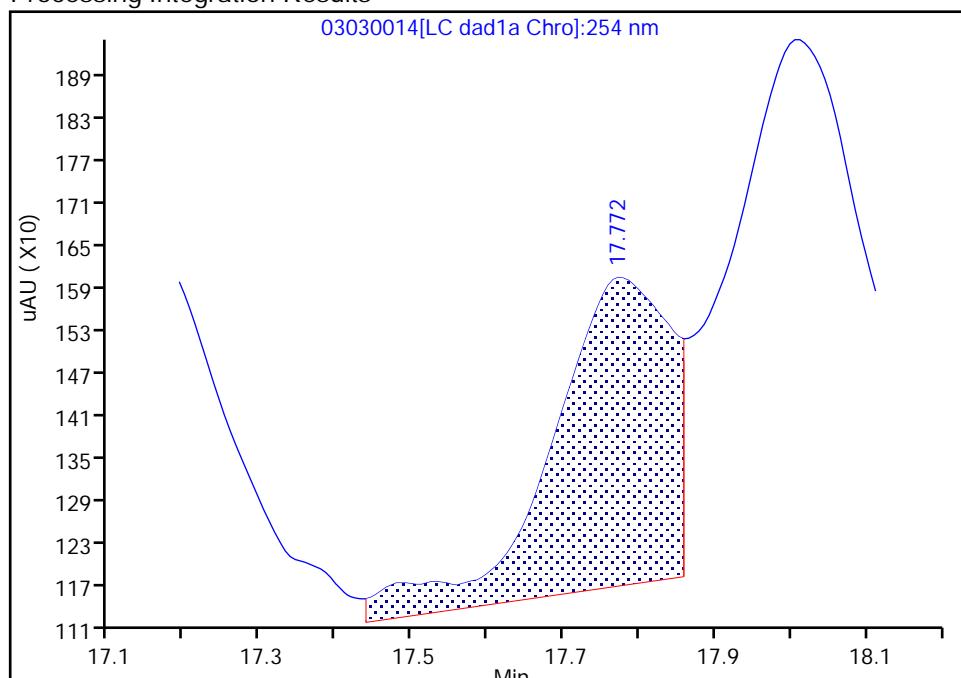
Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030014.d
 Injection Date: 03-Mar-2020 22:06:26 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC FULL 1
 Client ID:
 Operator ID: CB ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

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

Signal: 1

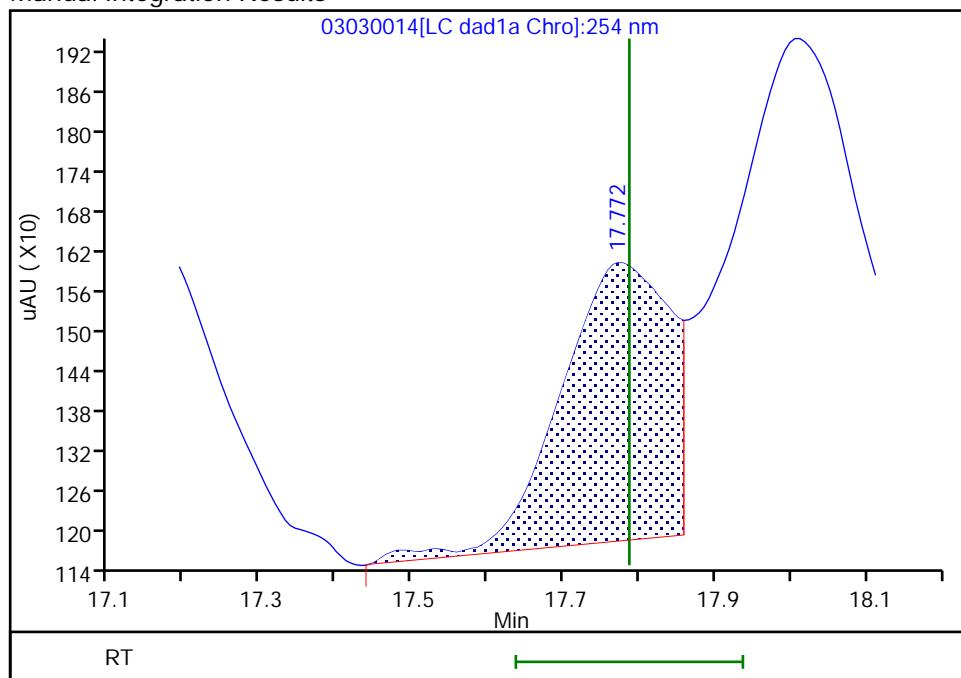
RT: 17.77
 Area: 4748
 Amount: NaN
 Amount Units: ug/ml

Processing Integration Results



RT: 17.77
 Area: 4144
 Amount: 0.010250
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 04-Mar-2020 08:28:10

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

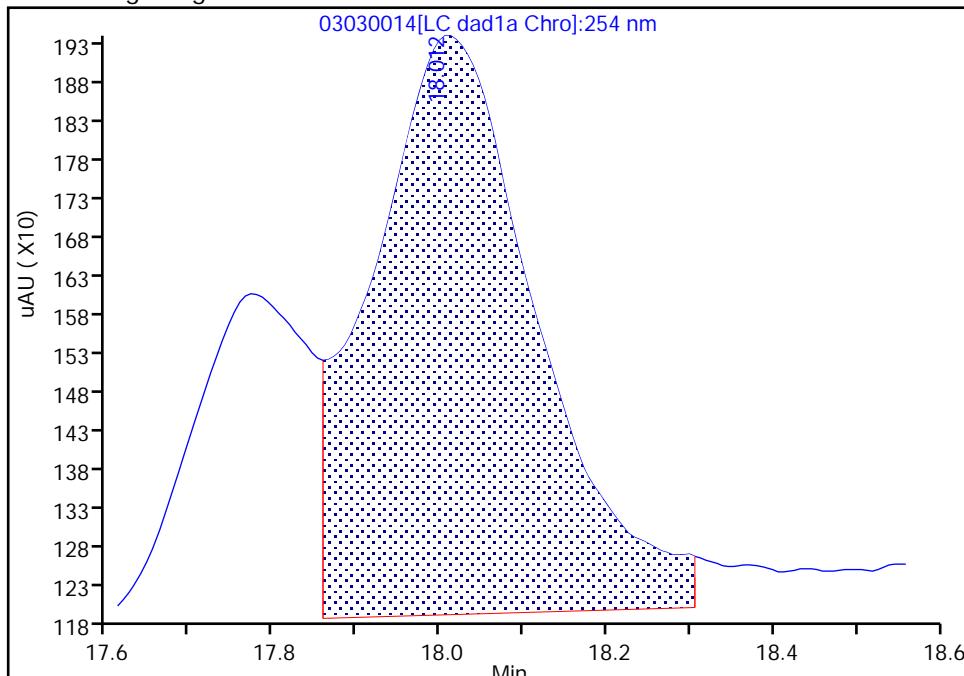
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 Injection Date: 03-Mar-2020 22:06:26 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC FULL 1
 Client ID:
 Operator ID: CB ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

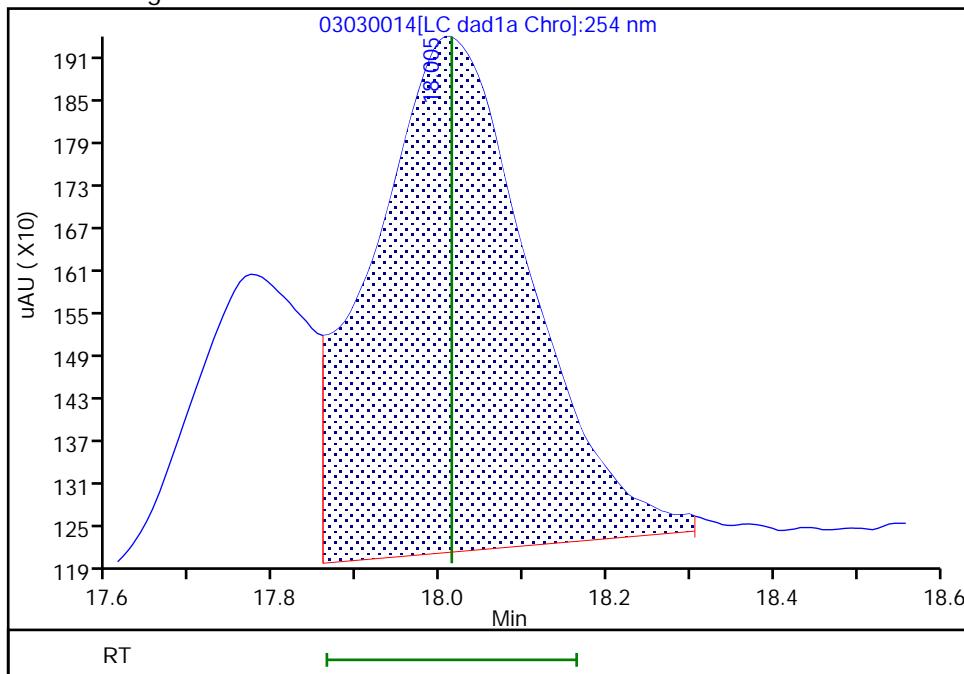
Processing Integration Results

RT: 18.01
 Area: 10275
 Amount: 0.013107
 Amount Units: ug/ml



Manual Integration Results

RT: 18.01
 Area: 9484
 Amount: 0.012147
 Amount Units: ug/ml



Reviewer: beckerc, 04-Mar-2020 08:28:10

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

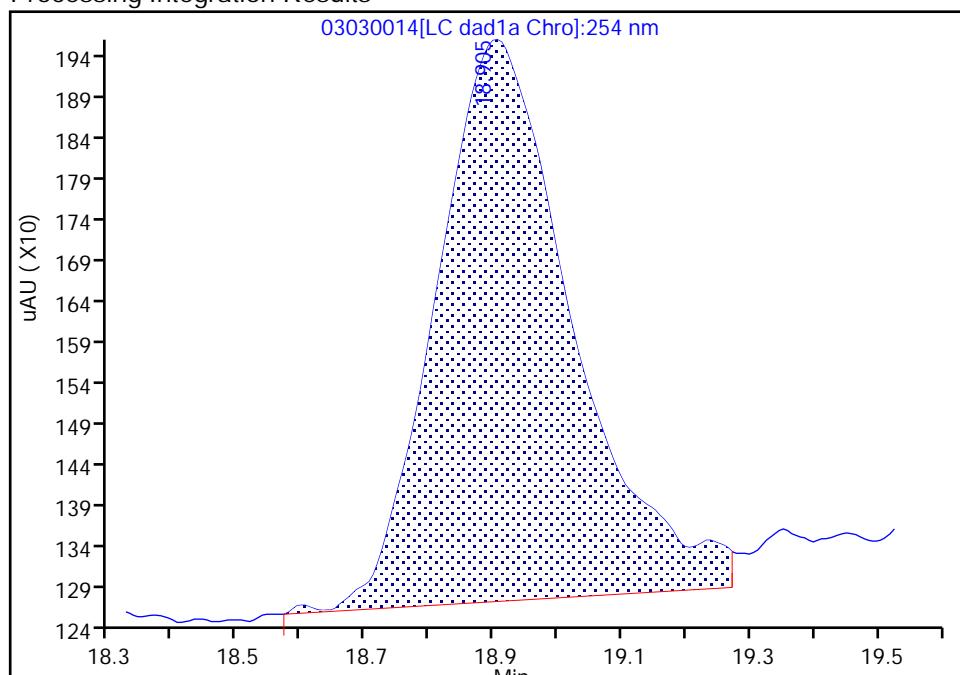
Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030014.d
 Injection Date: 03-Mar-2020 22:06:26 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC FULL 1
 Client ID:
 Operator ID: CB ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

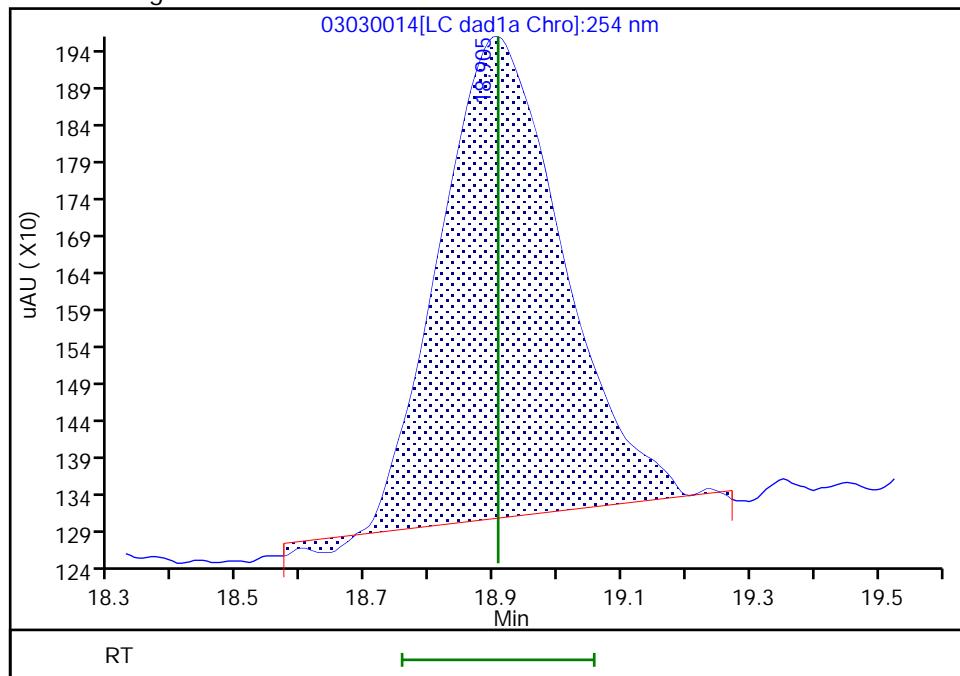
RT: 18.91
 Area: 10210
 Amount: 0.010234
 Amount Units: ug/ml

Processing Integration Results



RT: 18.91
 Area: 8677
 Amount: 0.010121
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 04-Mar-2020 08:28:10

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

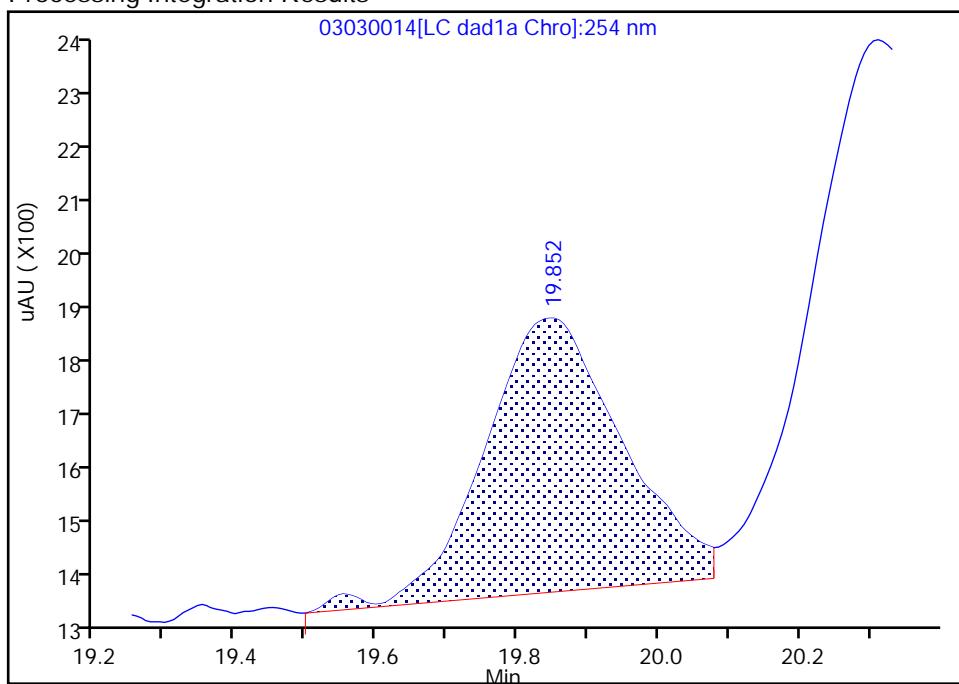
Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030014.d
 Injection Date: 03-Mar-2020 22:06:26 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC FULL 1
 Client ID:
 Operator ID: CB ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

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

Signal: 1

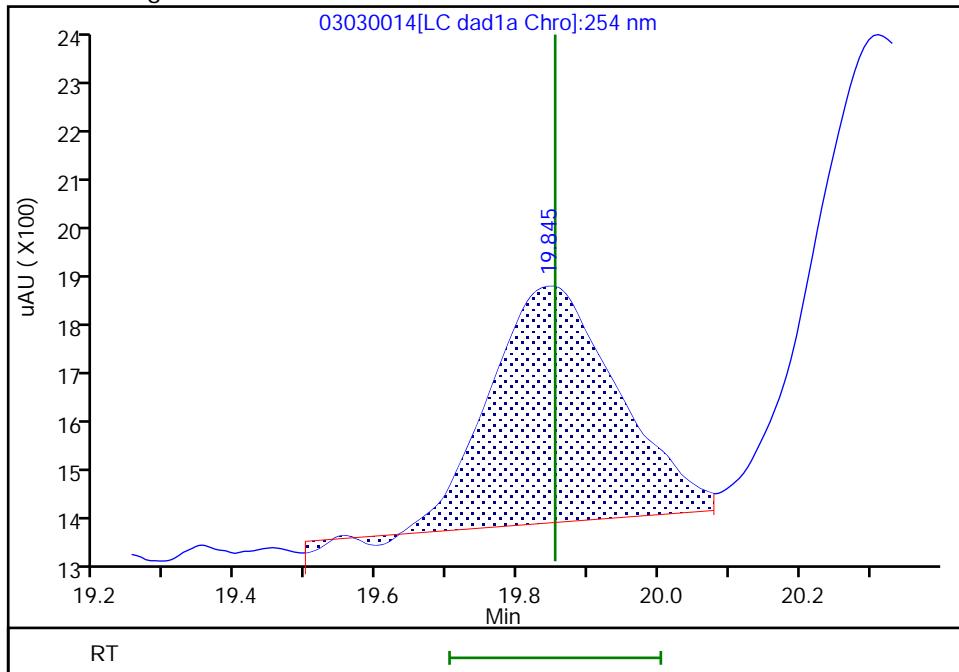
RT: 19.85
 Area: 6422
 Amount: 0.010407
 Amount Units: ug/ml

Processing Integration Results



RT: 19.85
 Area: 5674
 Amount: 0.010314
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 04-Mar-2020 08:28:10

Audit Action: Assigned New Baseline

Audit Reason: Baseline

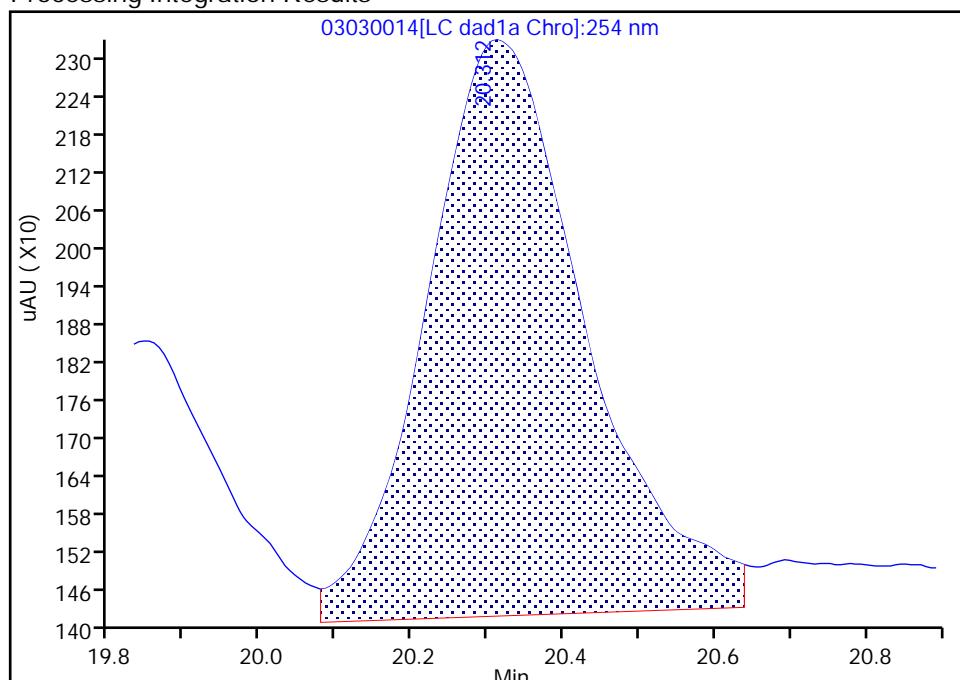
Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030014.d
 Injection Date: 03-Mar-2020 22:06:26 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC FULL 1
 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

21 2,4-Dinitrotoluene, CAS: 121-14-2
Signal: 1

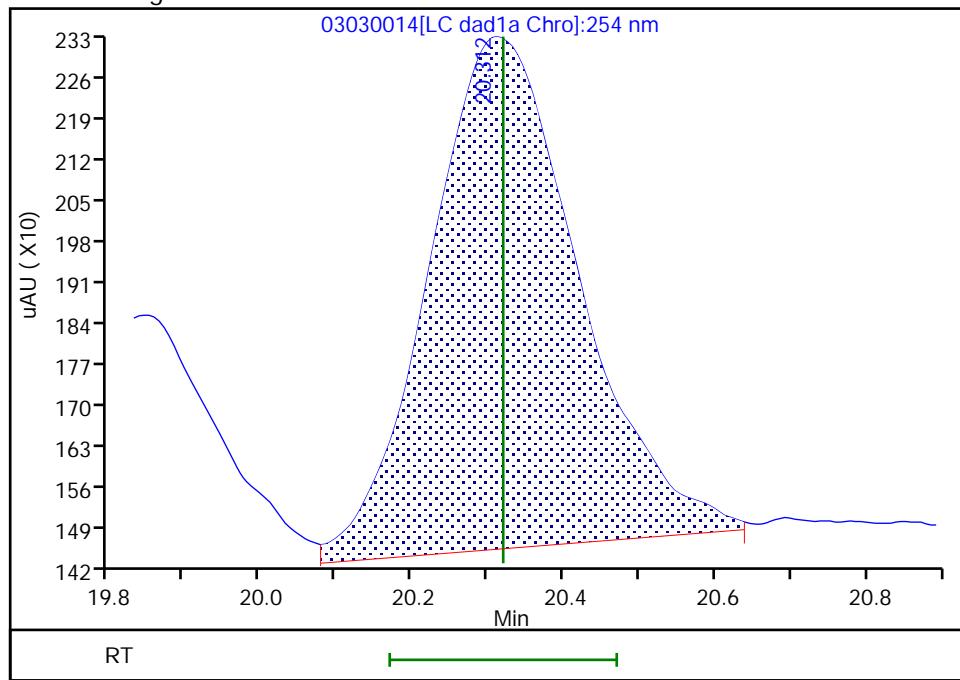
RT: 20.31
 Area: 13433
 Amount: 0.010397
 Amount Units: ug/ml

Processing Integration Results



RT: 20.31
 Area: 12157
 Amount: 0.010322
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 04-Mar-2020 08:28:10

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

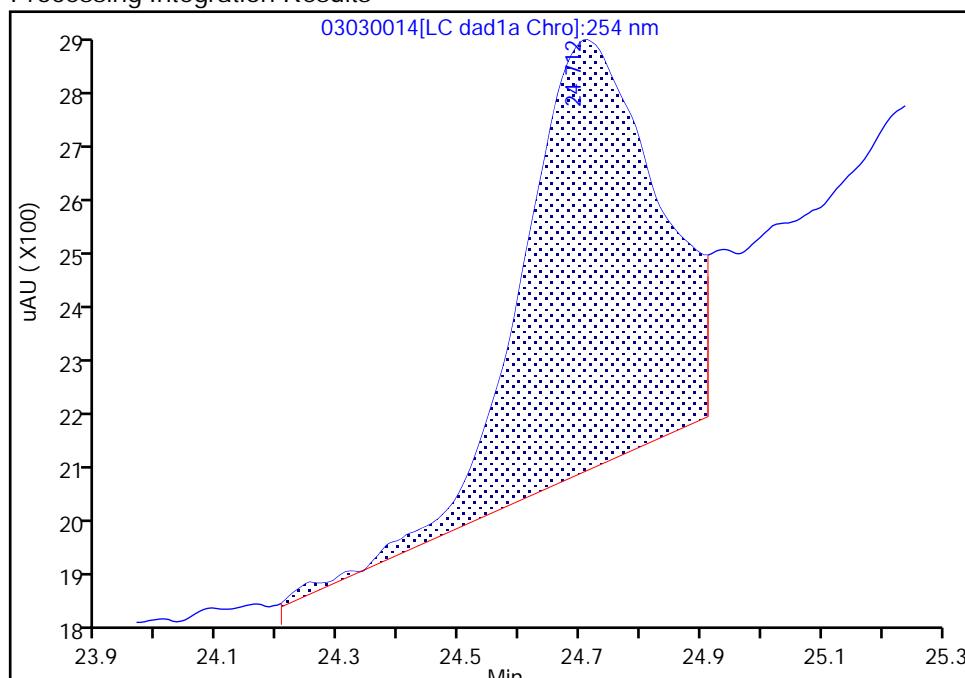
Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030014.d
 Injection Date: 03-Mar-2020 22:06:26 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC FULL 1
 Client ID:
 Operator ID: CB ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

23 2,4,6-Trinitrotoluene, CAS: 118-96-7

Signal: 1

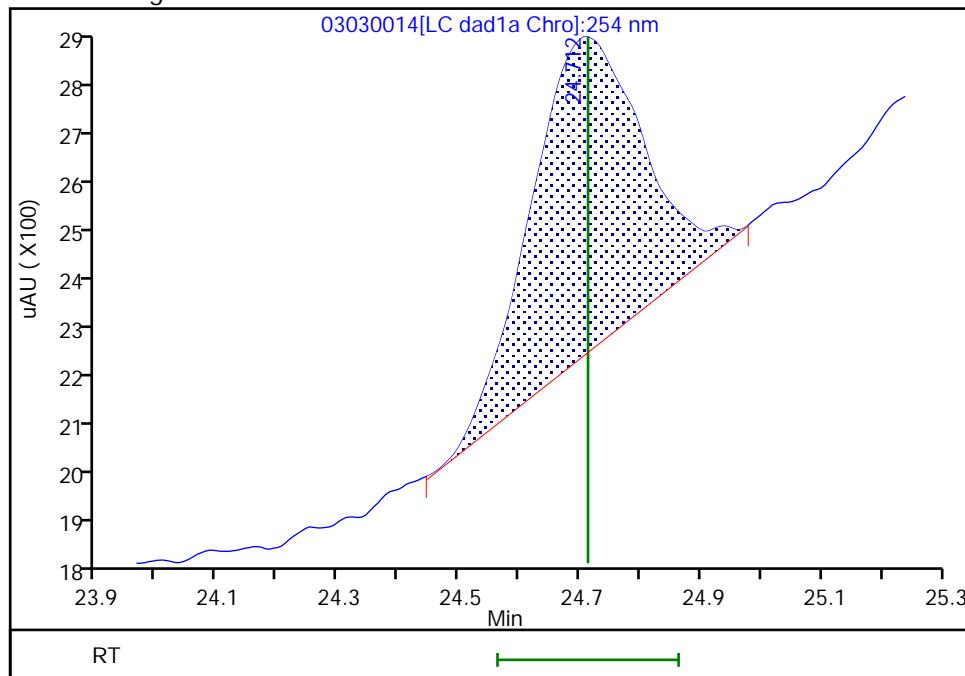
RT: 24.71
 Area: 11542
 Amount: 0.014517
 Amount Units: ug/ml

Processing Integration Results



RT: 24.71
 Area: 7922
 Amount: 0.010389
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 04-Mar-2020 08:27:29

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

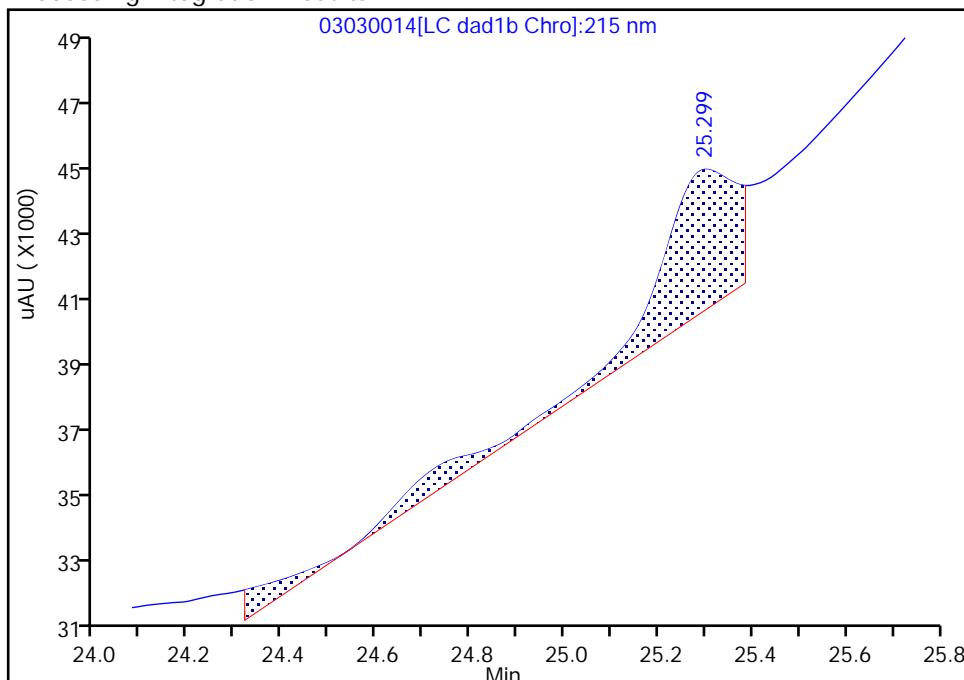
Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030014.d
 Injection Date: 03-Mar-2020 22:06:26 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC FULL 1
 Client ID:
 Operator ID: CB ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Detector LC DAD1B, 215 nm

24 PETN, CAS: 78-11-5

Signal: 1

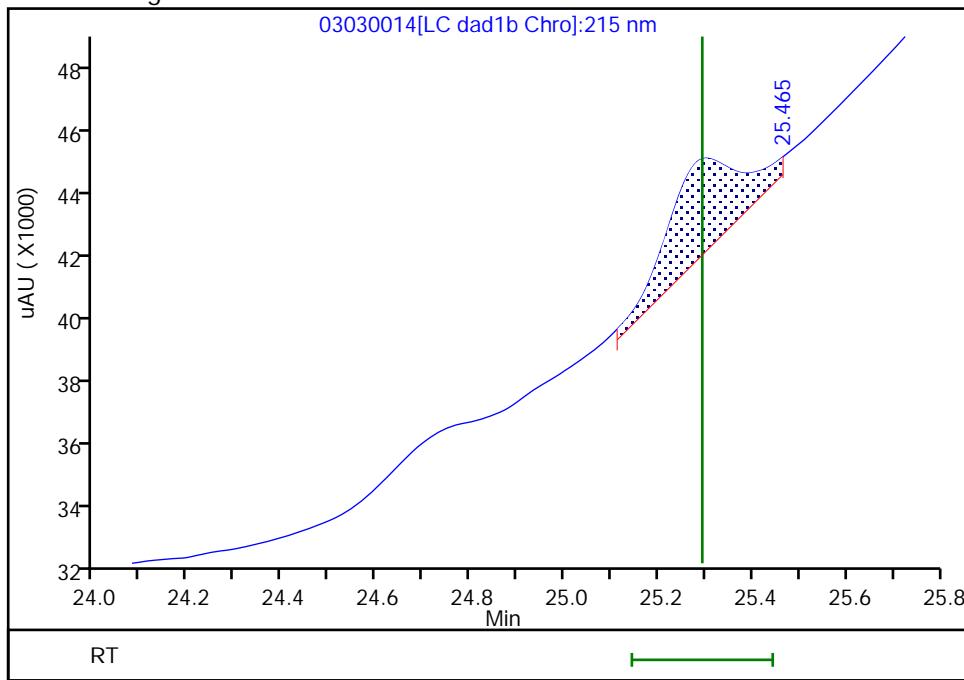
RT: 25.30
 Area: 56322
 Amount: 0.185048
 Amount Units: ug/ml

Processing Integration Results



RT: 25.47
 Area: 31969
 Amount: 0.143632
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 04-Mar-2020 08:27:41

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.: 280-134369-1 Analy Batch No.: 487544

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2020 23:16 Calibration End Date: 03/04/2020 03:21 Calibration ID: 42493

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-487544/23	03030023.D
Level 2	IC 280-487544/22	03030022.D
Level 3	IC 280-487544/21	03030021.D
Level 4	IC 280-487544/20	03030020.D
Level 5	IC 280-487544/19	03030019.D
Level 6	IC 280-487544/18	03030018.D
Level 7	IC 280-487544/17	03030017.D
Level 8	IC 280-487544/16	03030016.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
TNX	5.403	5.400	5.400	5.398	5.400	5.405	5.407	5.380			5.250 - 5.550	5.399
DNX	6.203	6.207	6.200	6.205	6.200	6.205	6.213	6.187			6.050 - 6.350	6.203
MNX	7.710	7.714	7.707	7.711	7.707	7.711	7.720	7.693			7.557 - 7.857	7.709

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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1 Analy Batch No.: 487544

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2020 23:16 Calibration End Date: 03/04/2020 03:21 Calibration ID: 42493

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-487544/23	03030023.D
Level 2	IC 280-487544/22	03030022.D
Level 3	IC 280-487544/21	03030021.D
Level 4	IC 280-487544/20	03030020.D
Level 5	IC 280-487544/19	03030019.D
Level 6	IC 280-487544/18	03030018.D
Level 7	IC 280-487544/17	03030017.D
Level 8	IC 280-487544/16	03030016.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	470380 456214	448112 450390	453067 460609	435297 462553	Ave		454577.672				2.3		20.0			
DNX	334765 329366	328172 324187	328432 331166	315828 330710	Ave		327828.250				1.7		20.0			
MNX	309254 308231	311380 302759	303033 307918	296586 306966	Ave		305765.831				1.5		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.: 280-134369-1 Analy Batch No.: 487544

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNA GC Column: Luna-phenyl ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2020 23:16 Calibration End Date: 03/04/2020 03:21 Calibration ID: 42493

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-487544/23	03030023.D
Level 2	IC 280-487544/22	03030022.D
Level 3	IC 280-487544/21	03030021.D
Level 4	IC 280-487544/20	03030020.D
Level 5	IC 280-487544/19	03030019.D
Level 6	IC 280-487544/18	03030018.D
Level 7	IC 280-487544/17	03030017.D
Level 8	IC 280-487544/16	03030016.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	9417 315588	22428 461070	45352 1157540	108933	182668	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250	0.400
DNX	Ave	6702 227158	16425 331497	32876 827603	79036	131878	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250	0.400
MNX	Ave	7218 247324	18169 359340	35364 895572	86529	143882	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\G2_LUNA\20200303-89749.b\03030016.D
 Lims ID: IC DMT 8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 03-Mar-2020 23:16:19 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT 8
 Misc. Info.: 280-0089749-016
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub13
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 05-Mar-2020 11:27:47 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0319

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.380	5.400	-0.020	1157540	2.50	2.55	
4 DNX	1	6.187	6.200	-0.013	827603	2.50	2.52	
7 MNX	1	7.693	7.707	-0.014	895572	2.92	2.93	

Reagents:

8330 DMT_00005 Amount Added: 125.00 Units: uL

Report Date: 05-Mar-2020 11:27:48

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200303-89749.b\\03030016.d

Injection Date: 03-Mar-2020 23:16:19

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC DMT 8

Worklist Smp#: 16

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

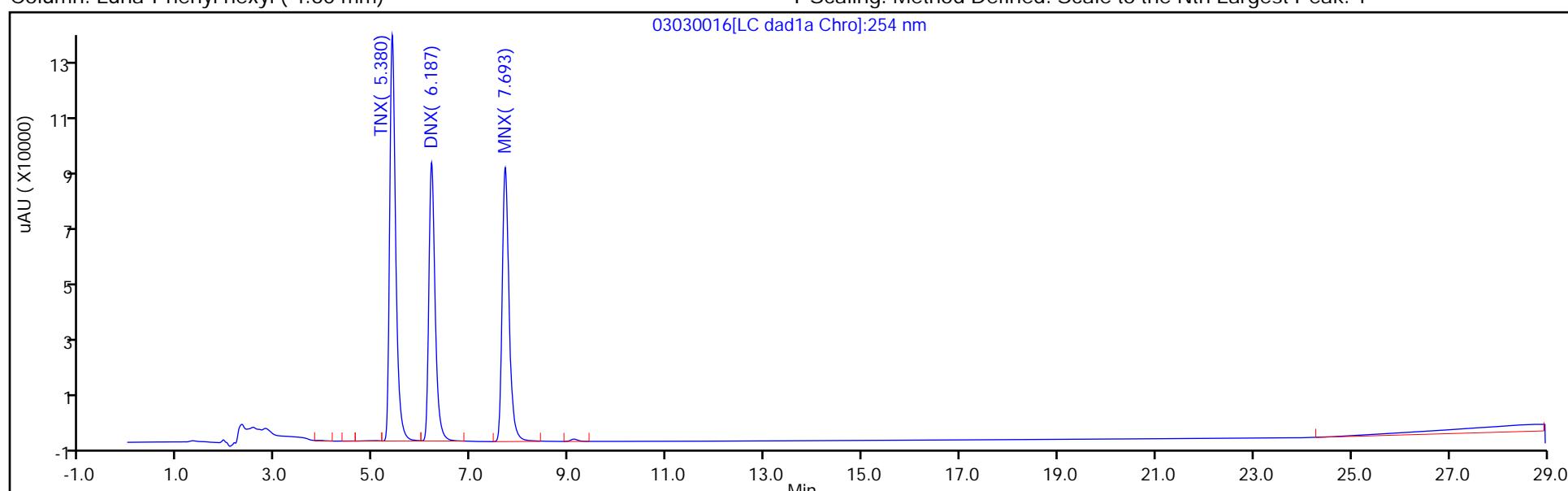
ALS Bottle#: 16

Method: G2_8330_Luna

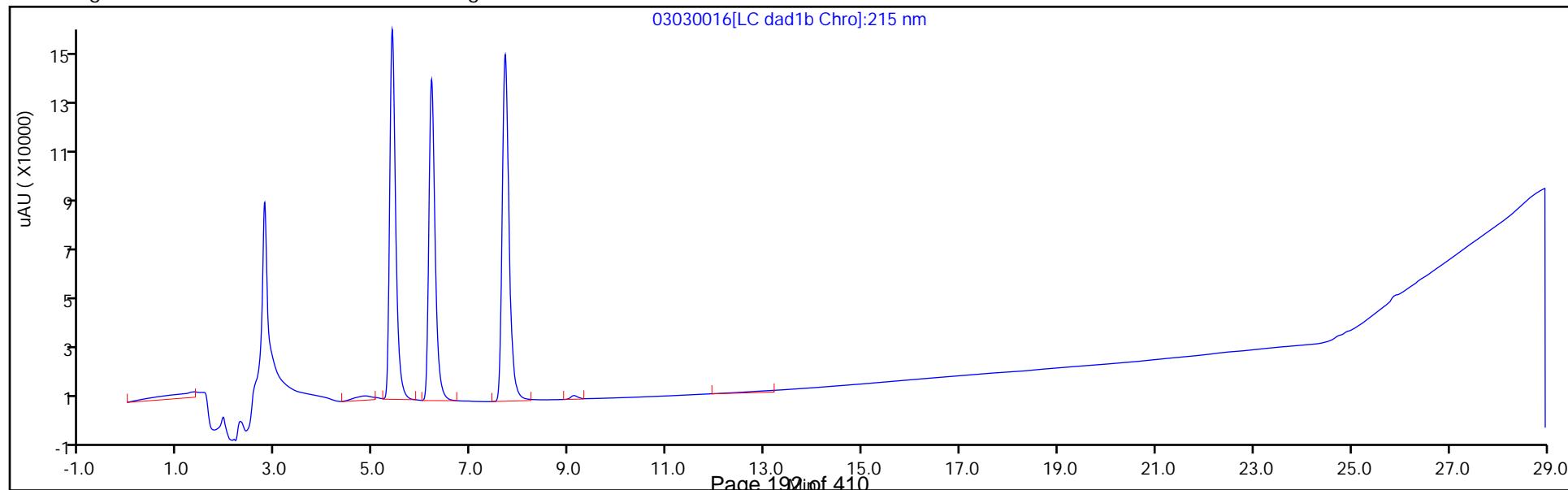
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030017.D
 Lims ID: IC DMT 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 03-Mar-2020 23:51:15 ALS Bottle#: 17 Worklist Smp#: 17
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT 7
 Misc. Info.: 280-0089749-017
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub13
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 05-Mar-2020 11:27:49 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0319

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.407	5.400	0.007	461070	1.00	1.01	
4 DNX	1	6.213	6.200	0.013	331497	1.00	1.01	
7 MNX	1	7.720	7.707	0.013	359340	1.17	1.18	

Reagents:

8330 DMT_00005 Amount Added: 50.00 Units: uL

Report Date: 05-Mar-2020 11:27:49

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200303-89749.b\\03030017.d

Injection Date: 03-Mar-2020 23:51:15

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC DMT 7

Worklist Smp#: 17

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

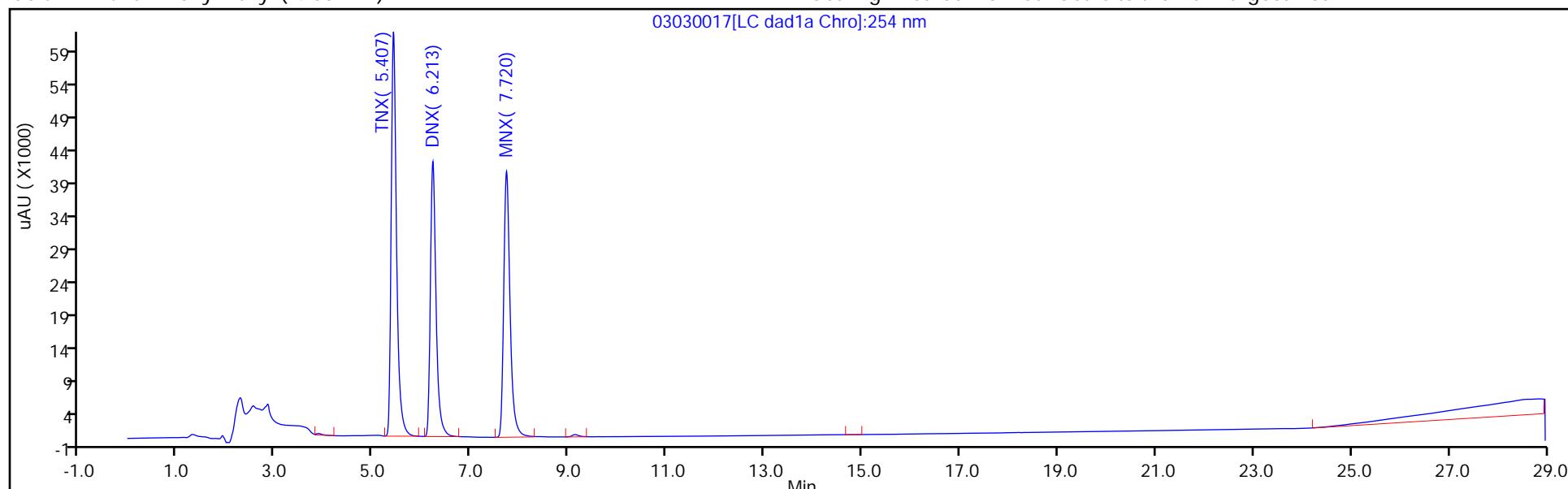
ALS Bottle#: 17

Method: G2_8330_Luna

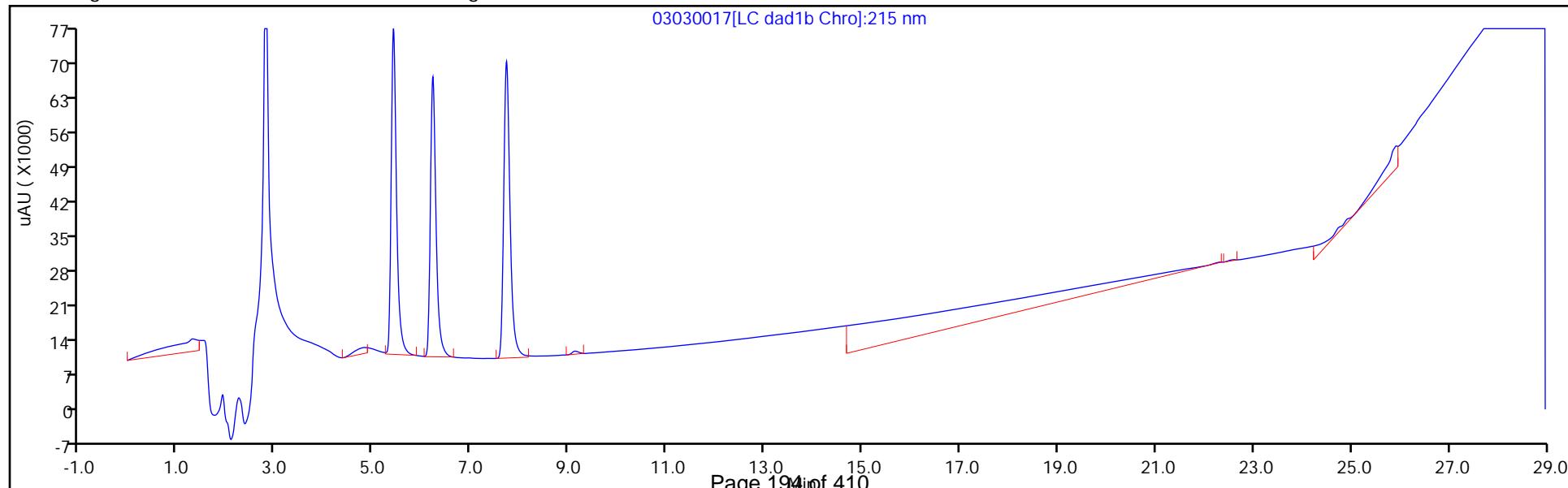
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030018.D
 Lims ID: IC DMT 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 04-Mar-2020 00:26:10 ALS Bottle#: 18 Worklist Smp#: 18
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT 6
 Misc. Info.: 280-0089749-018
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub13
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 05-Mar-2020 11:27:50 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0319

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.405	5.400	0.005	315588	0.7007	0.6942	
4 DNX	1	6.205	6.200	0.005	227158	0.7007	0.6929	
7 MNX	1	7.711	7.707	0.004	247324	0.8169	0.8089	

Reagents:

8330 DMT_00005 Amount Added: 35.00 Units: uL

Report Date: 05-Mar-2020 11:27:50

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200303-89749.b\\03030018.d

Injection Date: 04-Mar-2020 00:26:10

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC DMT 6

Worklist Smp#: 18

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

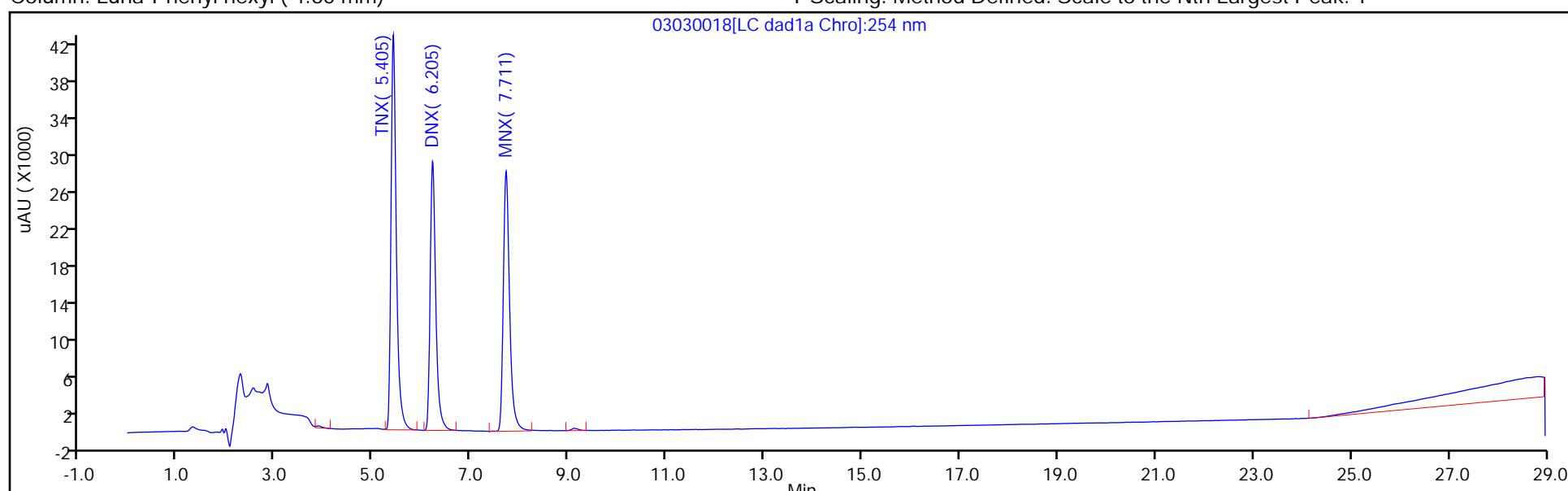
ALS Bottle#: 18

Method: G2_8330_Luna

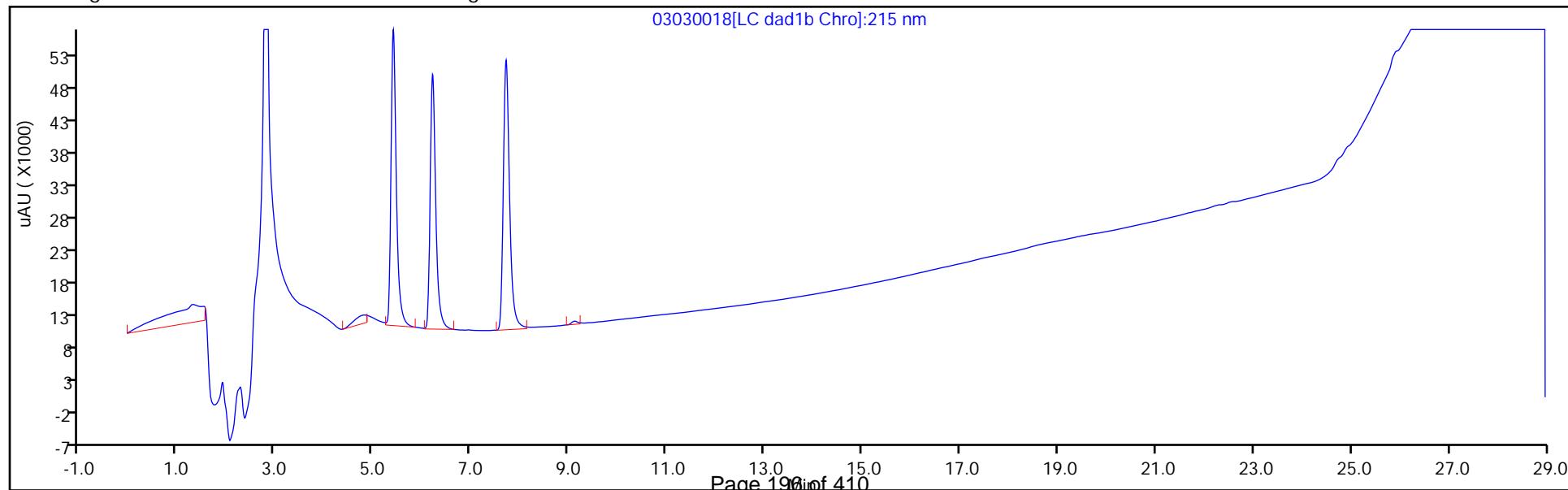
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030019.D
 Lims ID: IC DMT 5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 04-Mar-2020 01:01:09 ALS Bottle#: 19 Worklist Smp#: 19
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT 5
 Misc. Info.: 280-0089749-019
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub13
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 05-Mar-2020 11:27:51 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0319

First Level Reviewer: beckerc Date: 05-Mar-2020 08:44:02

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.400	5.400	0.000	182668	0.4004	0.4018	M
4 DNX	1	6.200	6.200	0.000	131878	0.4004	0.4023	
7 MNX	1	7.707	7.707	0.000	143882	0.4668	0.4706	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00005 Amount Added: 20.00 Units: uL

Report Date: 05-Mar-2020 11:27:51

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200303-89749.b\\03030019.d

Injection Date: 04-Mar-2020 01:01:09

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC DMT 5

Worklist Smp#: 19

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

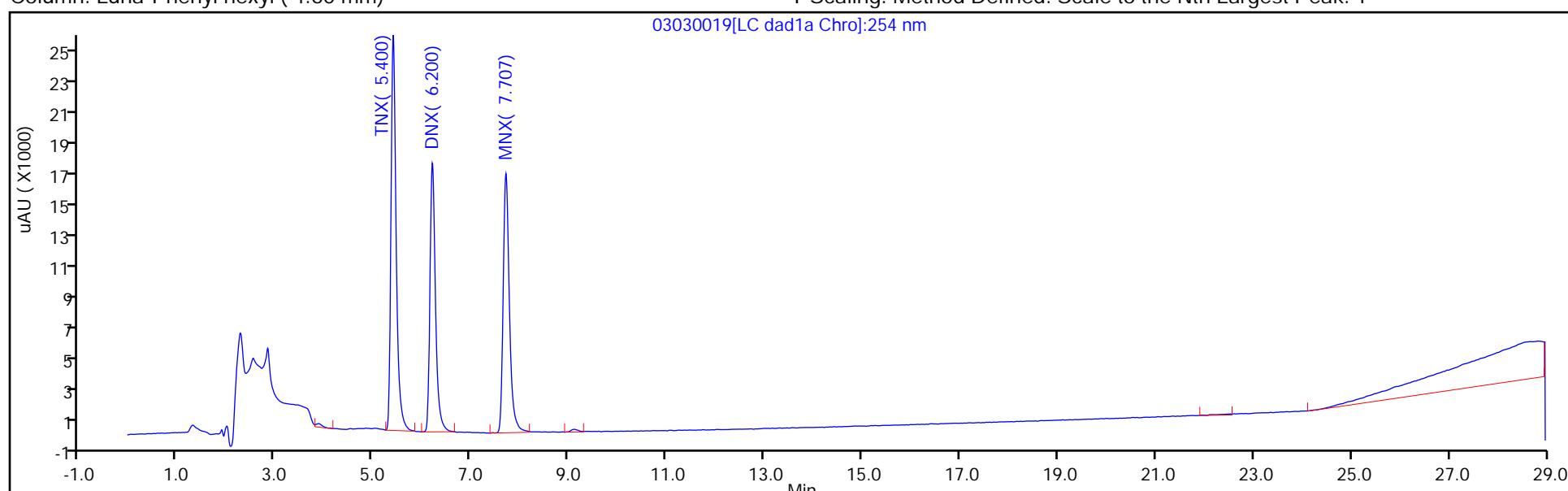
ALS Bottle#: 19

Method: G2_8330_Luna

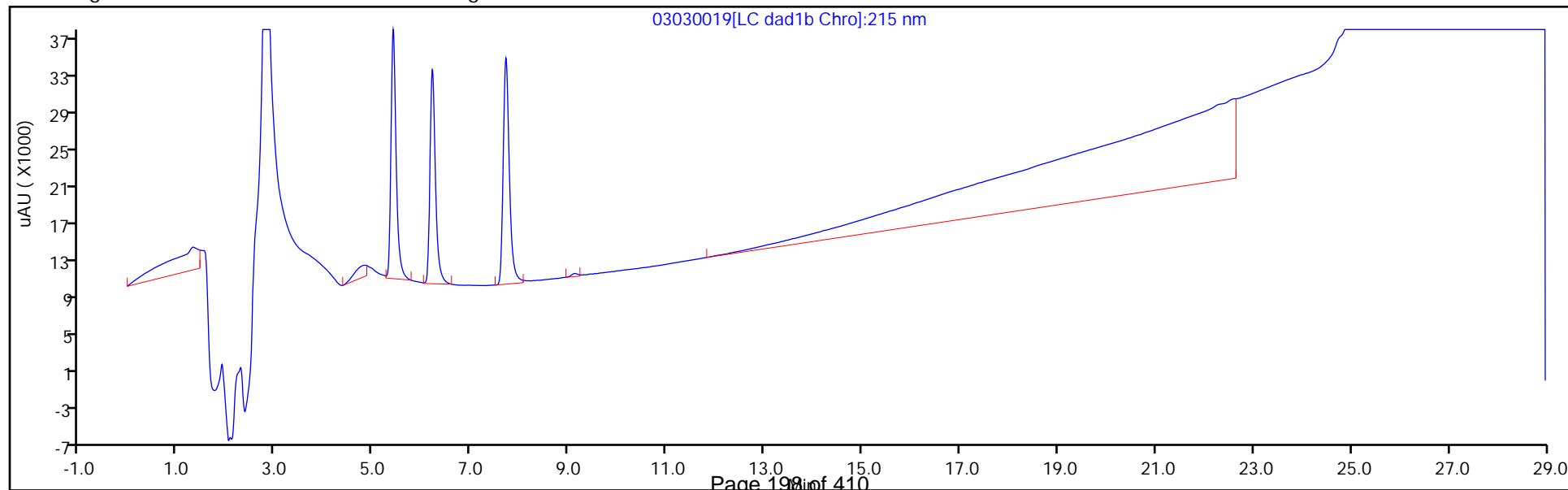
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

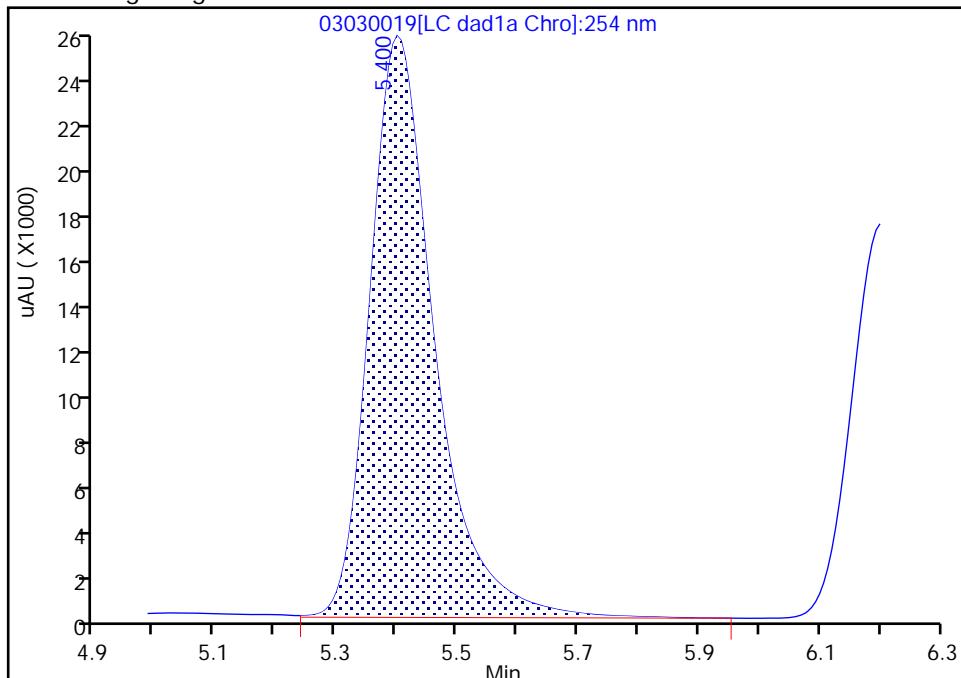
Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030019.d
 Injection Date: 04-Mar-2020 01:01:09 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC DMT 5
 Client ID:
 Operator ID: CB ALS Bottle#: 19 Worklist Smp#: 19
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

3 TNX, CAS: 13980-04-6

Signal: 1

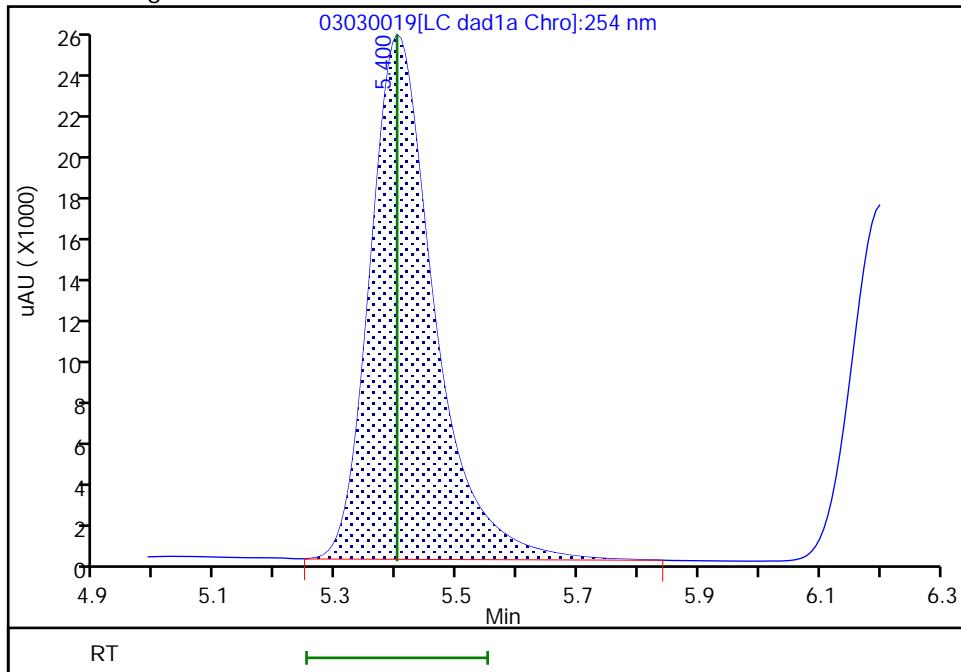
Processing Integration Results

RT: 5.40
 Area: 184347
 Amount: 0.405068
 Amount Units: ug/ml



Manual Integration Results

RT: 5.40
 Area: 182668
 Amount: 0.401841
 Amount Units: ug/ml



Reviewer: beckerc, 05-Mar-2020 08:43:57

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030020.D
 Lims ID: IC DMT 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 04-Mar-2020 01:36:10 ALS Bottle#: 20 Worklist Smp#: 20
 Injection Vol: 100.0 uL Dil. Factor: 1.0000
 Sample Info: IC DMT 4
 Misc. Info.: 280-0089749-020
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub13
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 05-Mar-2020 11:27:52 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0319

First Level Reviewer: beckerc Date: 05-Mar-2020 08:43:41

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.398	5.400	-0.002	108933	0.2503	0.2396	M
4 DNX	1	6.205	6.200	0.005	79036	0.2503	0.2411	
7 MNX	1	7.711	7.707	0.004	86529	0.2918	0.2830	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00005 Amount Added: 12.50 Units: uL

Report Date: 05-Mar-2020 11:27:52

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200303-89749.b\\03030020.d

Injection Date: 04-Mar-2020 01:36:10

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC DMT 4

Worklist Smp#: 20

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

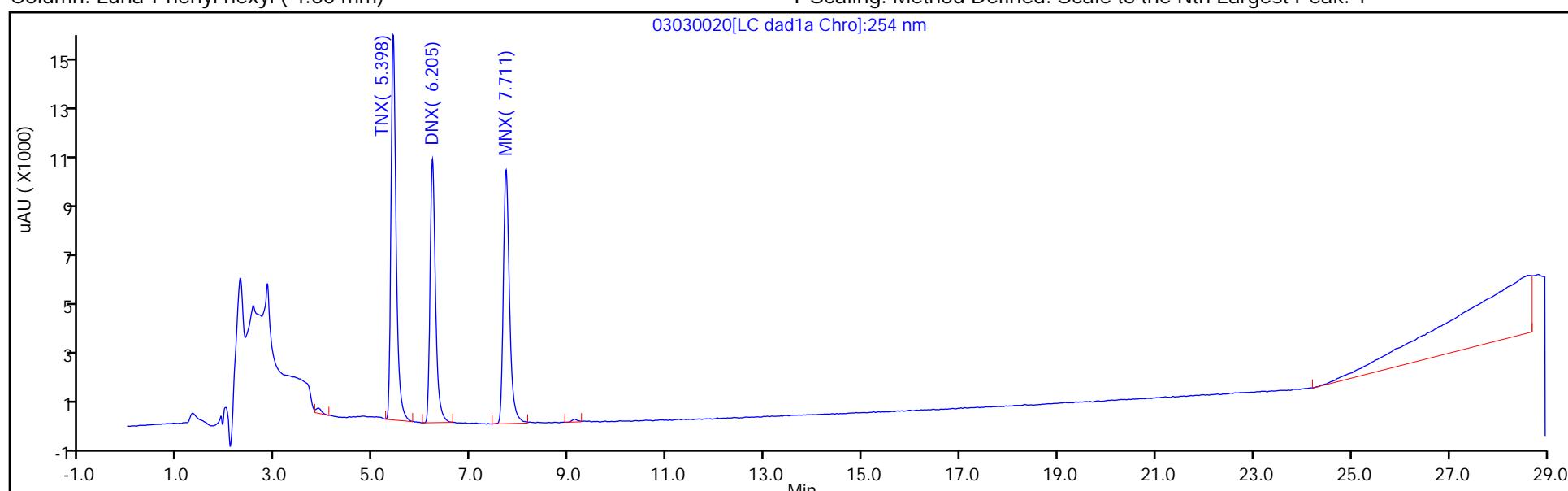
ALS Bottle#: 20

Method: G2_8330_Luna

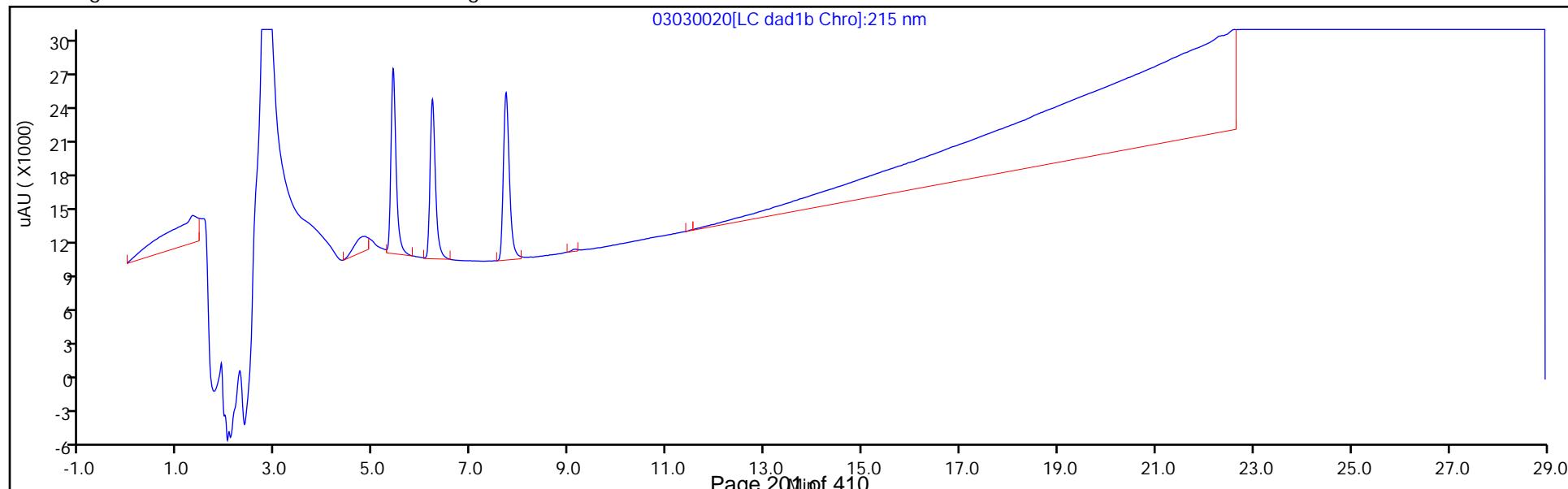
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

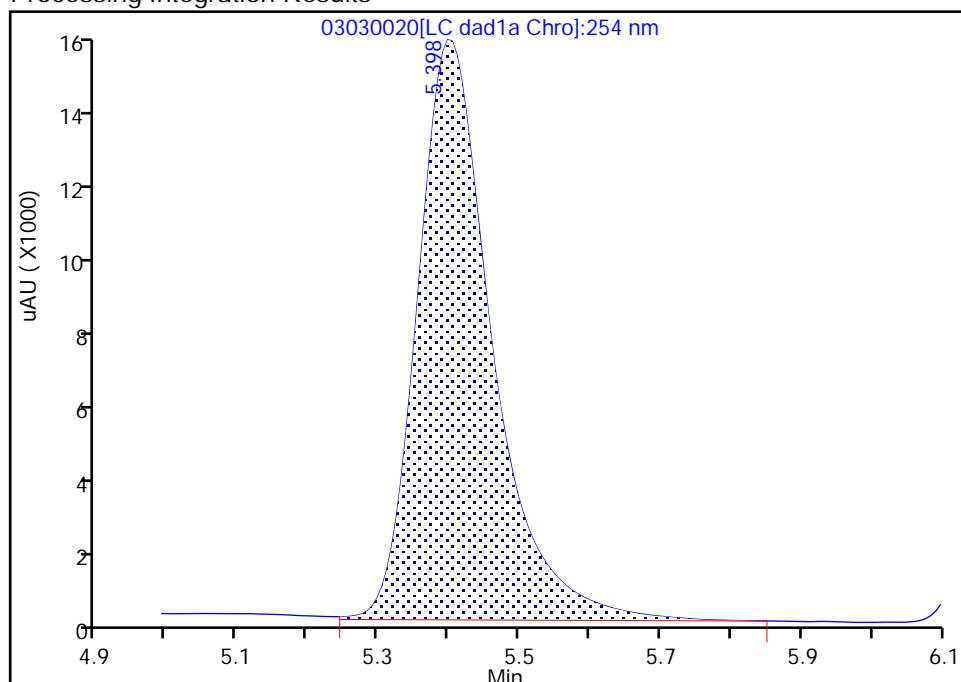
Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030020.d
 Injection Date: 04-Mar-2020 01:36:10 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC DMT 4
 Client ID:
 Operator ID: CB ALS Bottle#: 20 Worklist Smp#: 20
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

3 TNX, CAS: 13980-04-6

Signal: 1

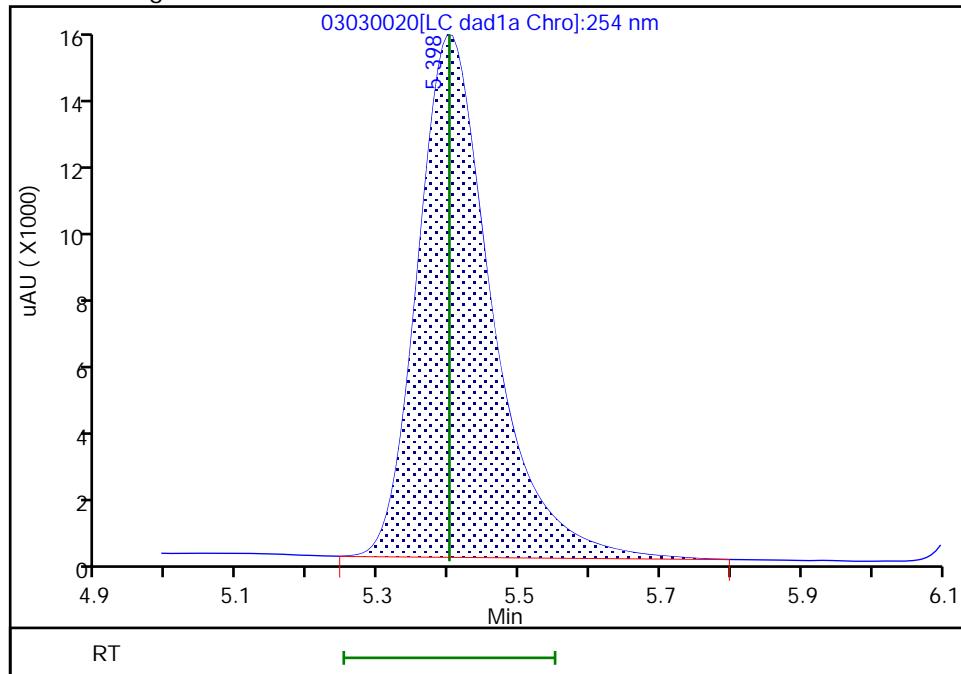
RT: 5.40
 Area: 110130
 Amount: 0.241672
 Amount Units: ug/ml

Processing Integration Results



RT: 5.40
 Area: 108933
 Amount: 0.239636
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 05-Mar-2020 08:43:37

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030021.D
 Lims ID: IC DMT 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 04-Mar-2020 02:11:08 ALS Bottle#: 21 Worklist Smp#: 21
 Injection Vol: 100.0 uL Dil. Factor: 1.0000
 Sample Info: IC DMT 3
 Misc. Info.: 280-0089749-021
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub13
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 05-Mar-2020 11:27:53 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0319

First Level Reviewer: beckerc Date: 05-Mar-2020 08:43:22

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.400	5.400	0.000	45352	0.1001	0.0998	M
4 DNX	1	6.200	6.200	0.000	32876	0.1001	0.1003	
7 MNX	1	7.707	7.707	0.000	35364	0.1167	0.1157	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00005 Amount Added: 5.00 Units: uL

Report Date: 05-Mar-2020 11:27:53

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200303-89749.b\\03030021.d

Injection Date: 04-Mar-2020 02:11:08

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC DMT 3

Worklist Smp#: 21

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

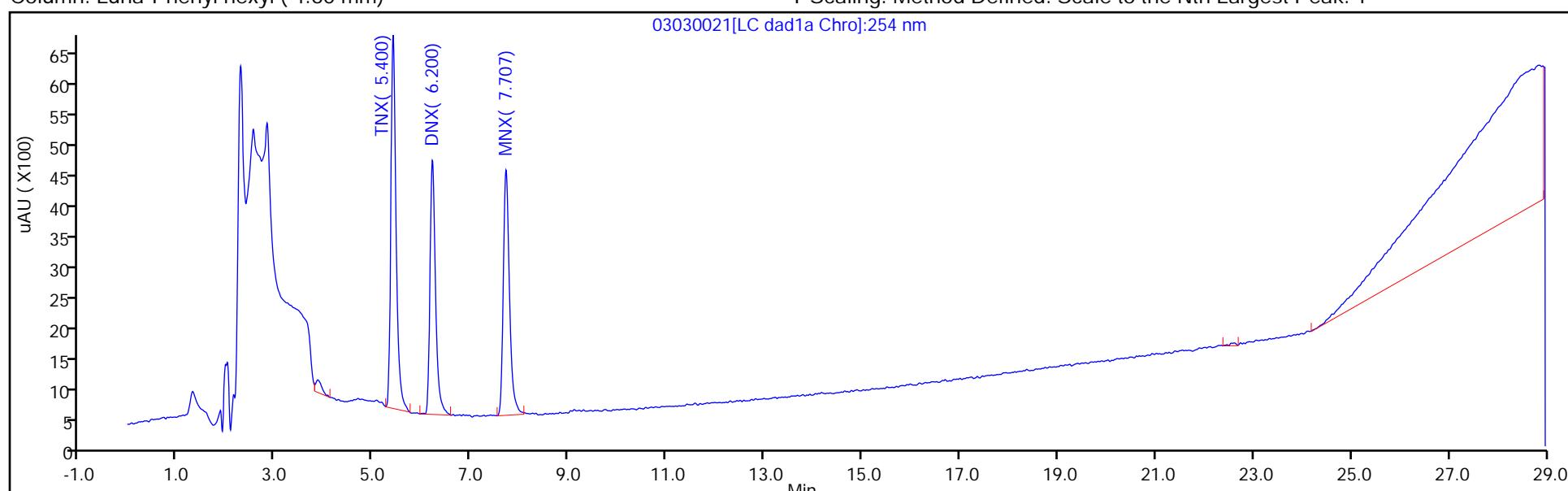
ALS Bottle#: 21

Method: G2_8330_Luna

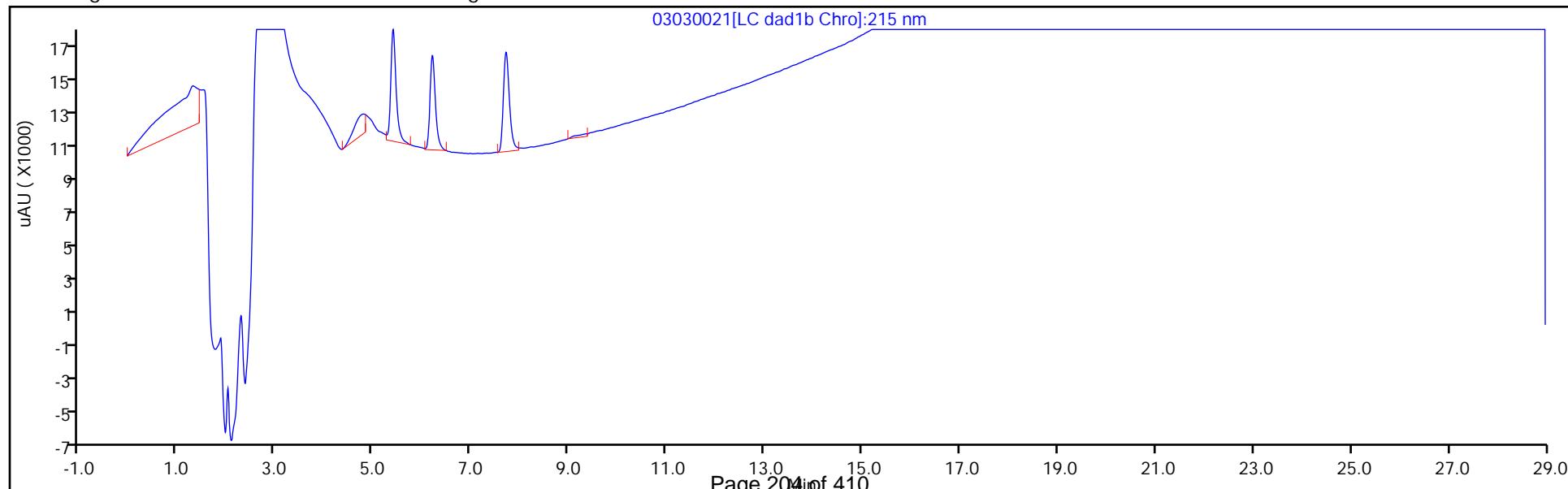
Limit Group: GCSV - 8330

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

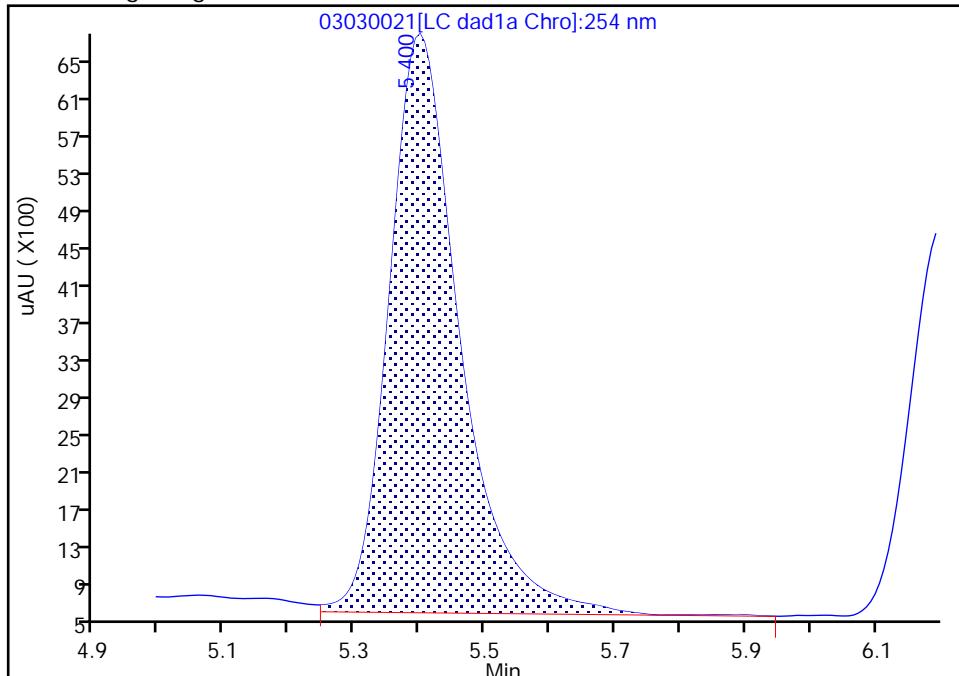
Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030021.d
 Injection Date: 04-Mar-2020 02:11:08 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC DMT 3
 Client ID:
 Operator ID: CB ALS Bottle#: 21 Worklist Smp#: 21
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

3 TNX, CAS: 13980-04-6

Signal: 1

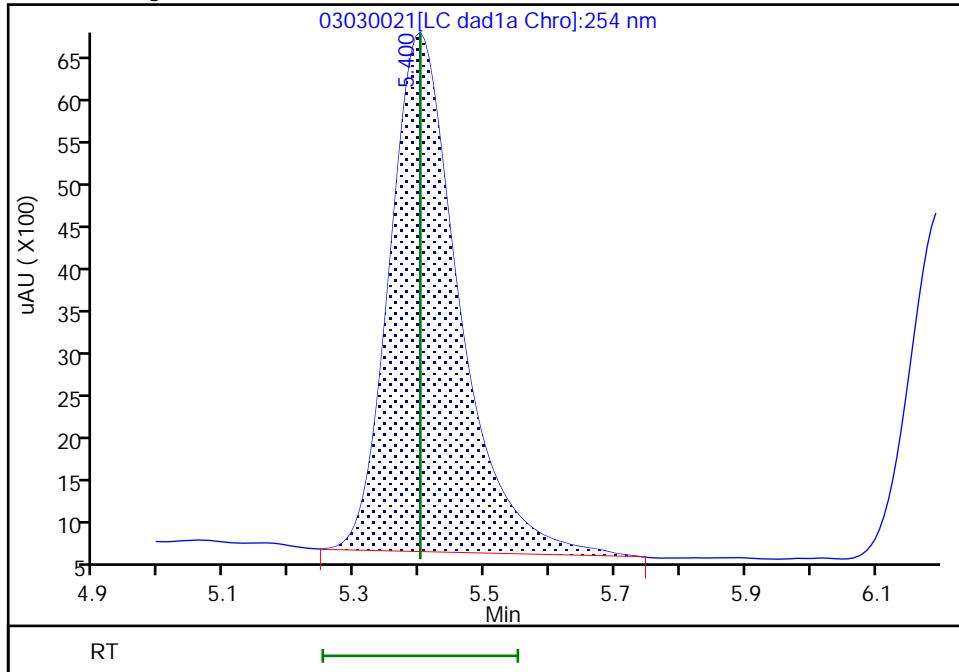
Processing Integration Results

RT: 5.40
 Area: 46697
 Amount: 0.102097
 Amount Units: ug/ml



Manual Integration Results

RT: 5.40
 Area: 45352
 Amount: 0.099767
 Amount Units: ug/ml



Reviewer: beckerc, 05-Mar-2020 08:43:18

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030022.D
 Lims ID: IC DMT 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 04-Mar-2020 02:46:06 ALS Bottle#: 22 Worklist Smp#: 22
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT 2
 Misc. Info.: 280-0089749-022
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub13
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 05-Mar-2020 11:27:54 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0319

First Level Reviewer: beckerc Date: 05-Mar-2020 08:42:59

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.400	5.400	0.000	22428	0.0501	0.0493	M
4 DNX	1	6.207	6.200	0.007	16425	0.0501	0.0501	
7 MNX	1	7.714	7.707	0.007	18169	0.0584	0.0594	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00005 Amount Added: 2.50 Units: uL

Report Date: 05-Mar-2020 11:27:54

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200303-89749.b\\03030022.d

Injection Date: 04-Mar-2020 02:46:06

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC DMT 2

Worklist Smp#: 22

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

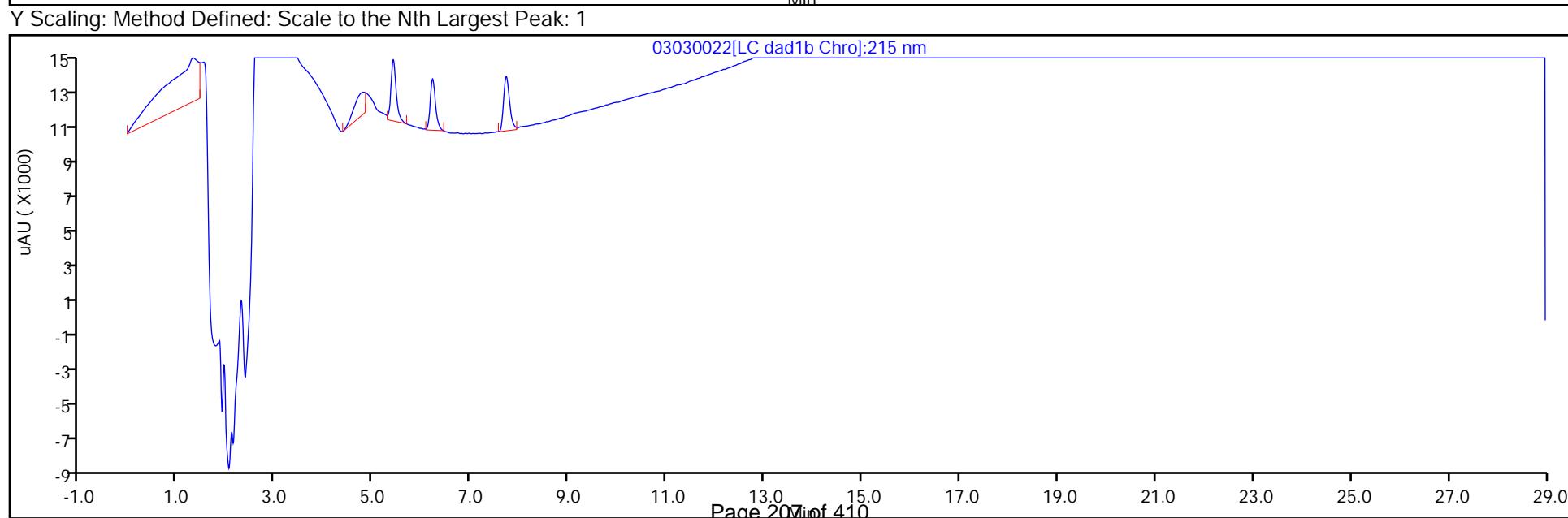
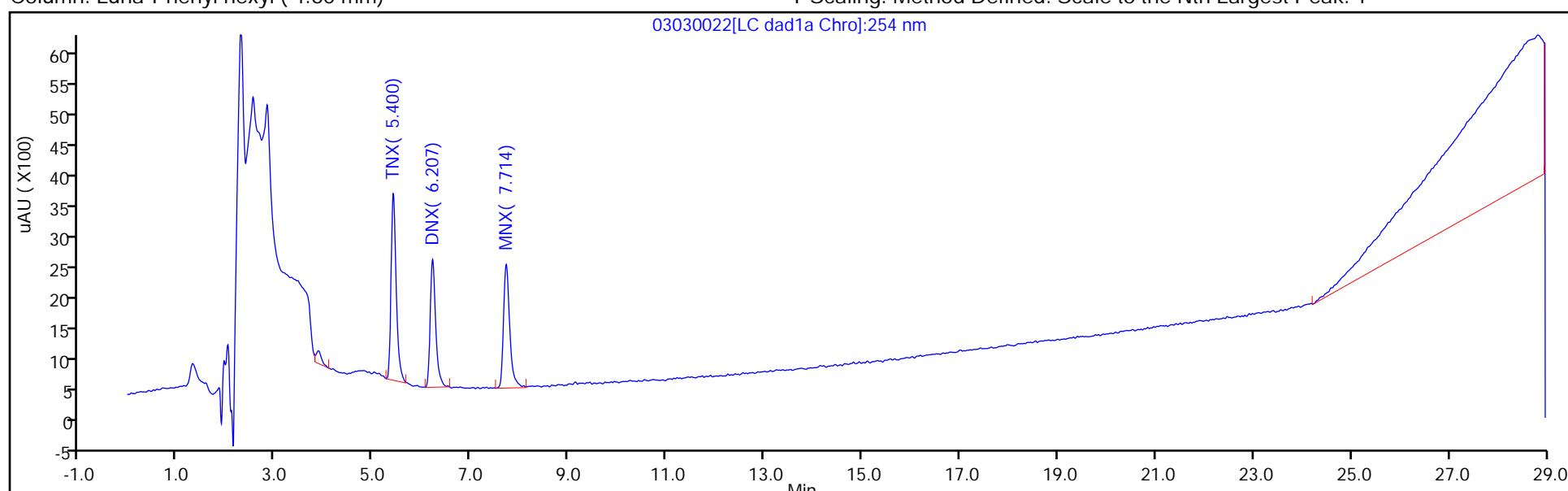
ALS Bottle#: 22

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



Eurofins TestAmerica, Denver

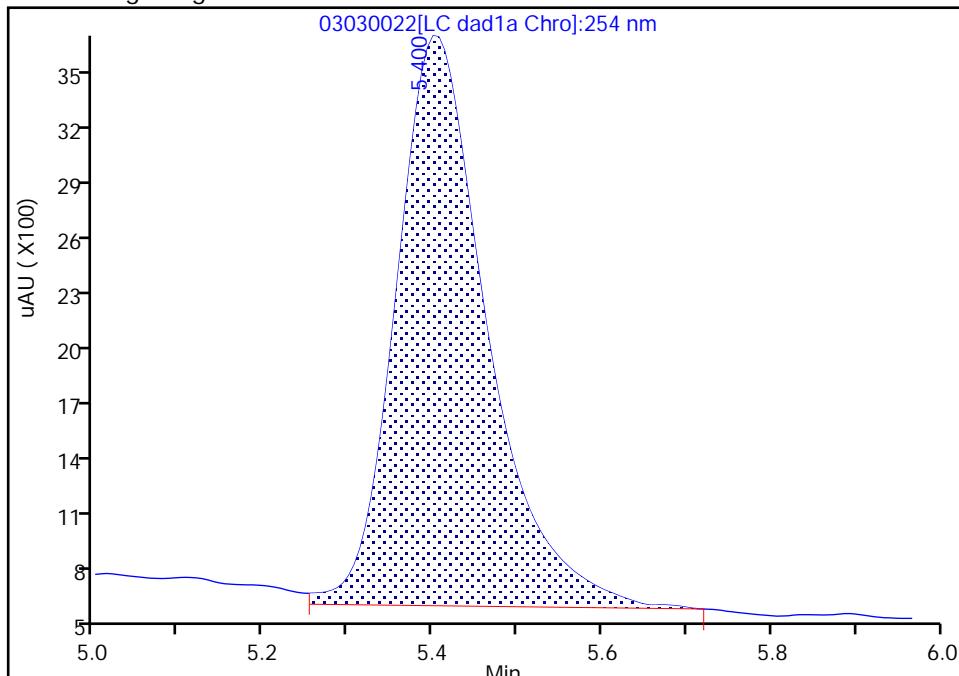
Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030022.d
 Injection Date: 04-Mar-2020 02:46:06 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC DMT 2
 Client ID:
 Operator ID: CB ALS Bottle#: 22 Worklist Smp#: 22
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

3 TNX, CAS: 13980-04-6

Signal: 1

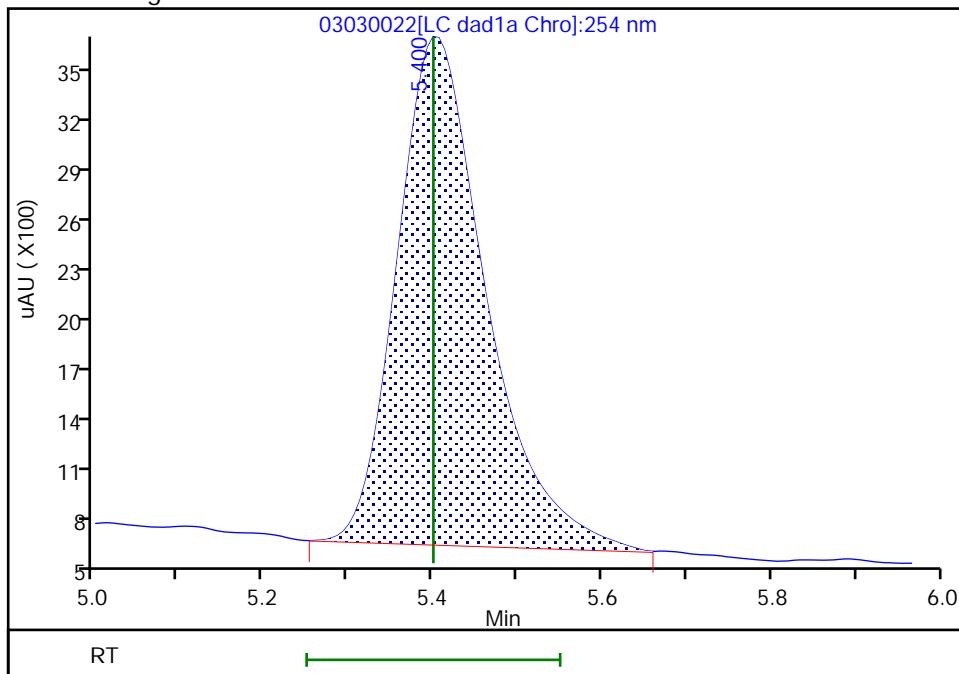
Processing Integration Results

RT: 5.40
 Area: 23296
 Amount: 0.050693
 Amount Units: ug/ml



Manual Integration Results

RT: 5.40
 Area: 22428
 Amount: 0.049338
 Amount Units: ug/ml



Reviewer: beckerc, 05-Mar-2020 08:42:55

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Lims ID: IC DMT 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 04-Mar-2020 03:21:00 ALS Bottle#: 23 Worklist Smp#: 23
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: IC DMT 1
 Misc. Info.: 280-0089749-023
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub13
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 05-Mar-2020 11:27:55 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0319

First Level Reviewer: beckerc Date: 05-Mar-2020 08:42:41

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.403	5.400	0.003	9417	0.0200	0.0207	M
4 DNX	1	6.203	6.200	0.003	6702	0.0200	0.0204	
7 MNX	1	7.710	7.707	0.003	7218	0.0233	0.0236	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00005 Amount Added: 1.00 Units: uL

Report Date: 05-Mar-2020 11:27:55

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200303-89749.b\\03030023.d

Injection Date: 04-Mar-2020 03:21:00

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: IC DMT 1

Worklist Smp#: 23

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

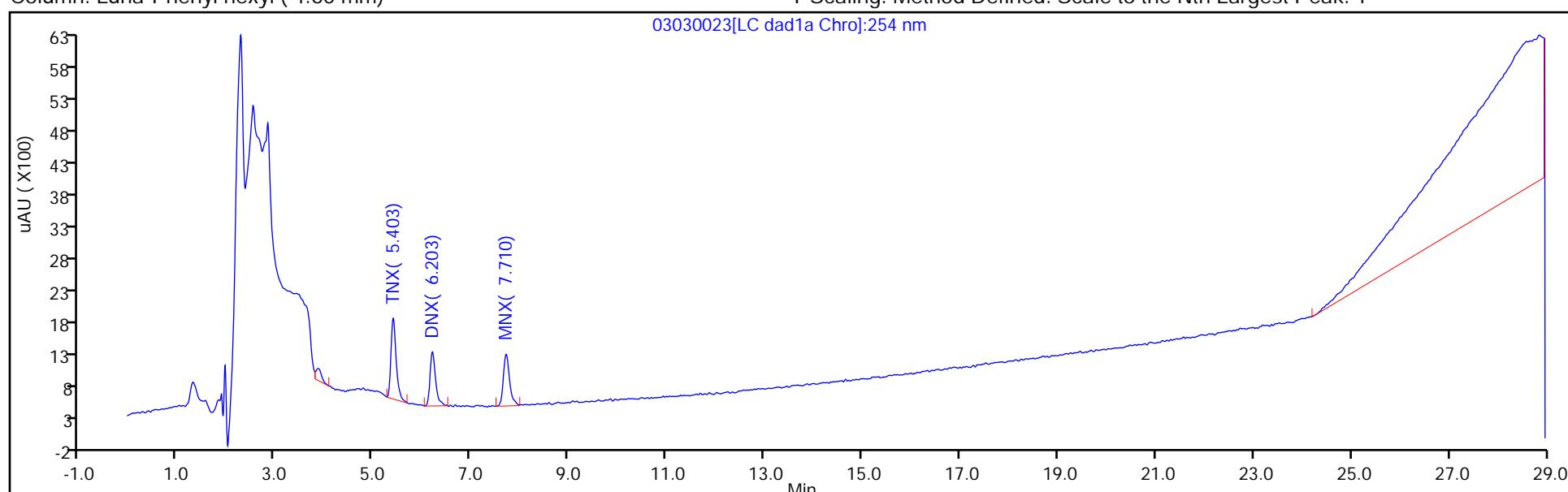
ALS Bottle#: 23

Method: G2_8330_Luna

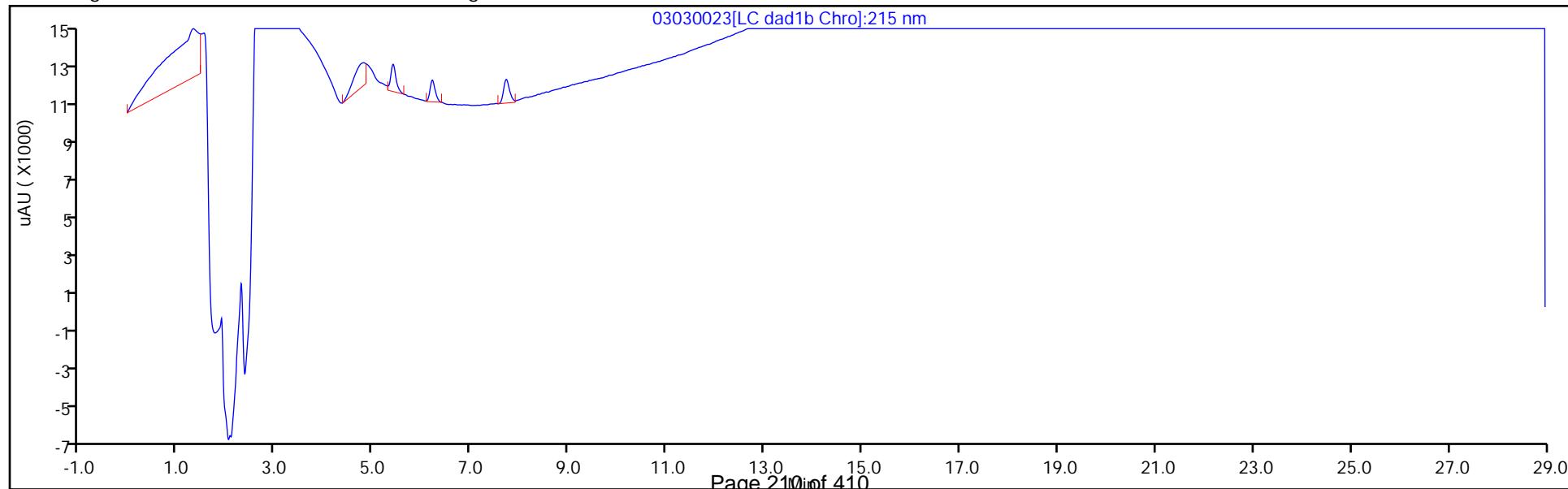
Limit Group: GCSV - 8330

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

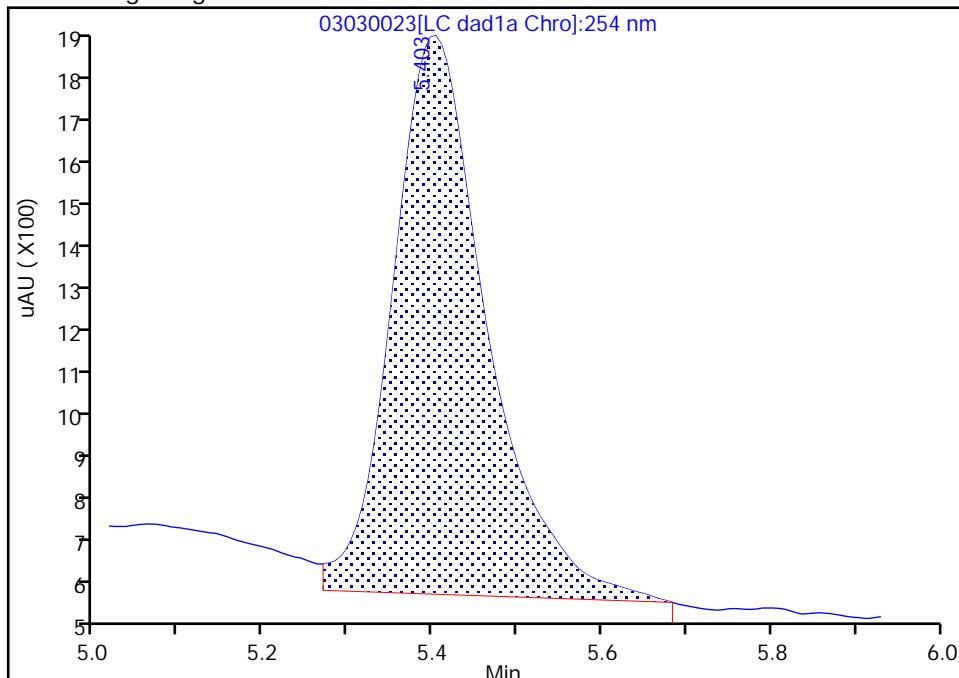
Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030023.d
 Injection Date: 04-Mar-2020 03:21:00 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: IC DMT 1
 Client ID:
 Operator ID: CB ALS Bottle#: 23 Worklist Smp#: 23
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

3 TNX, CAS: 13980-04-6

Signal: 1

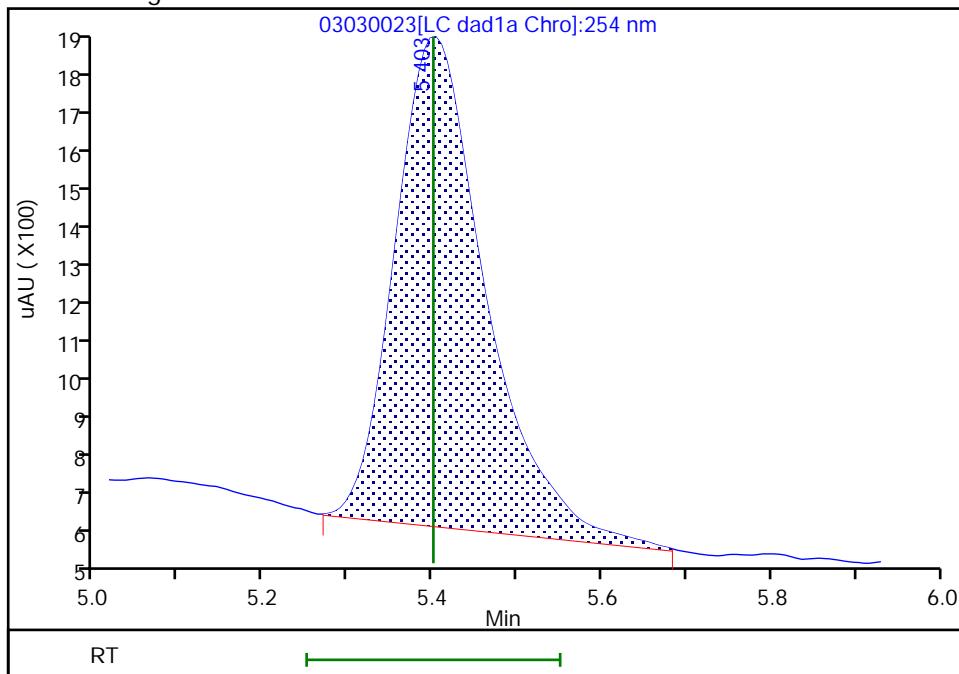
Processing Integration Results

RT: 5.40
 Area: 10062
 Amount: 0.021705
 Amount Units: ug/ml



Manual Integration Results

RT: 5.40
 Area: 9417
 Amount: 0.020716
 Amount Units: ug/ml



Reviewer: beckerc, 05-Mar-2020 08:42:37

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.: 280-134369-1 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 14:07 Calibration End Date: 03/04/2020 16:47 Calibration ID: 42562

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-487658/14	03040014.D
Level 2	IC 280-487658/13	03040013.D
Level 3	IC 280-487658/12	03040012.D
Level 4	IC 280-487658/11	03040011.D
Level 5	IC 280-487658/10	03040010.D
Level 6	IC 280-487658/9	03040009.D
Level 7	IC 280-487658/8	03040008.D
Level 8	IC 280-487658/7	03040007.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
HMX	6.682	6.684	6.682	6.683	6.684	6.683	6.685	6.682			6.533 - 6.833	6.683
RDX	7.755	7.750	7.749	7.750	7.758	7.756	7.759	7.748			7.600 - 7.900	7.753
Picric acid	8.082	8.077	8.069	8.063	8.058	8.043	8.032	7.982			7.906 - 8.206	8.051
1,3,5-Trinitrobenzene	8.882	8.884	8.882	8.883	8.884	8.883	8.885	8.875			8.733 - 9.033	8.882
1,3-Dinitrobenzene	9.535	9.530	9.529	9.536	9.531	9.529	9.532	9.522			9.379 - 9.679	9.531
Nitrobenzene	9.922	9.917	9.915	9.923	9.917	9.916	9.912	9.908			9.766 - 10.066	9.916
Tetryl	10.215	10.217	10.215	10.216	10.217	10.216	10.212	10.208			10.066 - 10.366	10.215
Nitroglycerin	10.728	10.730	10.722	10.730	10.731	10.729	10.719	10.708			10.579 - 10.879	10.725
2,4,6-Trinitrotoluene	11.182	11.183	11.175	11.183	11.184	11.182	11.172	11.175			11.083 - 11.283	11.180
4-Amino-2,6-dinitrotoluene	11.342	11.337	11.329	11.336	11.344	11.336	11.325	11.322			11.236 - 11.436	11.334
2-Amino-4,6-dinitrotoluene	11.622	11.623	11.615	11.623	11.631	11.622	11.612	11.608			11.523 - 11.723	11.620
2,6-Dinitrotoluene	11.788	11.790	11.782	11.790	11.791	11.789	11.779	11.775			11.689 - 11.889	11.786
2,4-Dinitrotoluene	11.988	11.983	11.975	11.983	11.991	11.982	11.972	11.968			11.883 - 12.083	11.980
2-Nitrotoluene	12.828	12.830	12.822	12.830	12.831	12.822	12.819	12.815			12.679 - 12.979	12.825
4-Nitrotoluene	13.268	13.263	13.255	13.263	13.271	13.262	13.252	13.248			13.119 - 13.419	13.260
3-Nitrotoluene	13.868	13.863	13.855	13.863	13.871	13.856	13.852	13.842			13.713 - 14.013	13.859
PETN	14.962	14.963	14.962	14.963	14.971	14.956	14.952	14.942			14.819 - 15.119	14.959
1,2-Dinitrobenzene	8.715	8.710	8.709	8.710	8.711	8.709	8.712	8.702			8.560 - 8.860	8.710

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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1 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 14:07 Calibration End Date: 03/04/2020 16:47 Calibration ID: 42562

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-487658/14	03040014.D
Level 2	IC 280-487658/13	03040013.D
Level 3	IC 280-487658/12	03040012.D
Level 4	IC 280-487658/11	03040011.D
Level 5	IC 280-487658/10	03040010.D
Level 6	IC 280-487658/9	03040009.D
Level 7	IC 280-487658/8	03040008.D
Level 8	IC 280-487658/7	03040007.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD	
	LVL 1	LVL 2	LVL 3	LVL 4		B	M1	M2									
HMX	76000 92195	84000 92901	90690 91886	91556 94192	Ave		89177.5536				6.9		20.0				
RDX	135800 113668	121280 113474	118060 112538	114104 114027	Ave		117868.823				6.6		20.0				
Picric acid	85600 87078	86880 87800	86250 87686	86696 89985	Ave		87246.8375				1.5		20.0				
1,3,5-Trinitrobenzene	241317 243301	243114 244799	242255 243367	242443 247077	Ave		243459.240				0.7		20.0				
1,3-Dinitrobenzene	317016 326305	319760 327946	324012 325028	322762 331181	Ave		324251.264				1.4		20.0				
Nitrobenzene	213496 213700	206972 215276	212400 212102	209502 218063	Ave		212688.862				1.6		20.0				
Tetryl	201248 192630	193054 193253	192365 192871	189457 196083	Ave		193870.110				1.8		20.0				
Nitroglycerin	65725 73511	68592 73876	71710 73303	73524 74137	Ave		71797.3561				4.2		20.0				
2,4,6-Trinitrotoluene	221713 220022	223725 219599	219920 221109	216454 224745	Ave		220910.986				1.2		20.0				
4-Amino-2,6-dinitrotoluene	172827 171731	179960 174551	170849 170344	174965 172519	Ave		173468.308				1.8		20.0				
2-Amino-4,6-dinitrotoluene	221713 216511	215040 216363	215538 218189	214008 222947	Ave		217538.754				1.5		20.0				
2,6-Dinitrotoluene	159512 159933	160657 161471	158845 155997	160088 158732	Ave		159404.313				1.0		20.0				
2,4-Dinitrotoluene	316285 321230	320458 323479	317131 322066	320327 328339	Ave		321164.424				1.2		20.0				
2-Nitrotoluene	165800 137323	156020 137486	142550 135008	137560 138961	Ave		143838.427				7.7		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.: 280-134369-1 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 14:07 Calibration End Date: 03/04/2020 16:47 Calibration ID: 42562

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									
4-Nitrotoluene	127495 118346	123273 118529	119112 116856	118255 120524	Ave		120298.779				2.9		20.0				
3-Nitrotoluene	160639 152110	161319 152488	152188 149787	150997 154421	Ave		154243.594				2.8		20.0				
PETN	66740 82493	74332 83187	80671 82517	81690 84015	Ave		79455.6132				7.5		20.0				
1,2-Dinitrobenzene	149050 144823	148380 145561	145890 144385	144548 147083	Ave		146215.016				1.2		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1 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 14:07 Calibration End Date: 03/04/2020 16:47 Calibration ID: 42562

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-487658/14	03040014.D
Level 2	IC 280-487658/13	03040013.D
Level 3	IC 280-487658/12	03040012.D
Level 4	IC 280-487658/11	03040011.D
Level 5	IC 280-487658/10	03040010.D
Level 6	IC 280-487658/9	03040009.D
Level 7	IC 280-487658/8	03040008.D
Level 8	IC 280-487658/7	03040007.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
HMX	Ave	1520 65031	4200 91886	9069 235480	22889	36878	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
RDX	Ave	2716 79432	6064 112538	11806 285067	28526	45467	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
Picric acid	Ave	1712 61460	4344 87686	8625 224963	21674	34831	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
1,3,5-Trinitrobenzene	Ave	4836 171702	12180 243854	24274 618928	60732	97515	0.0200 0.701	0.0501 1.00	0.100 2.51	0.251	0.401
1,3-Dinitrobenzene	Ave	6353 230021	16020 325678	32466 829608	80852	130783	0.0200 0.701	0.0501 1.00	0.100 2.51	0.251	0.401
Nitrobenzene	Ave	4287 151296	10390 212950	21325 547337	52585	85822	0.0201 0.703	0.0502 1.00	0.100 2.51	0.251	0.402
Tetryl	Ave	4033 135548	9672 193257	19275 491187	47459	77206	0.0200 0.701	0.0501 1.00	0.100 2.51	0.251	0.401
Nitroglycerin	Ave	13145 517135	34296 733033	71710 1853418	183811	294044	0.200 7.00	0.500 10.0	1.00 25.0	2.50	4.00
2,4,6-Trinitrotoluene	Ave	4452 154334	11231 221993	22080 564111	54330	88361	0.0201 0.703	0.0502 1.00	0.100 2.51	0.251	0.402
4-Amino-2,6-dinitrotoluene	Ave	3460 122308	9007 170514	17102 431730	43785	68761	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250	0.400
2-Amino-4,6-dinitrotoluene	Ave	4452 152060	10795 219062	21640 559598	53716	86951	0.0201 0.703	0.0502 1.00	0.100 2.51	0.251	0.402
2,6-Dinitrotoluene	Ave	3203 113482	8065 156621	15948 398417	40182	64229	0.0201 0.703	0.0502 1.00	0.100 2.51	0.251	0.402
2,4-Dinitrotoluene	Ave	6351 227341	16087 323354	31840 824132	80402	129006	0.0201 0.703	0.0502 1.00	0.100 2.51	0.251	0.402
2-Nitrotoluene	Ave	3316 96240	7801 135008	14255 347403	34390	54929	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250	0.400
4-Nitrotoluene	Ave	2555 83136	6176 117090	11935 301912	29623	47433	0.0200 0.701	0.0501 1.00	0.100 2.51	0.251	0.401

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

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1 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 14:07 Calibration End Date: 03/04/2020 16:47 Calibration ID: 42562

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
3-Nitrotoluene	Ave	3216 106848	8074 149937	15234 386438	37787	60905	0.0200 0.701	0.0501 1.00	0.100 2.50	0.250	0.400
PETN	Ave	13348 582311	37166 825168	80671 2100383	204225	329970	0.200 7.00	0.500 10.0	1.00 25.0	2.50	4.00
1,2-Dinitrobenzene	Ave	2981 101893	7419 144385	14589 367708	36137	57929	0.0200 0.700	0.0500 1.00	0.100 2.50	0.250	0.400

Curve Type Legend:

Ave = Average

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040007.D
 Lims ID: IC MAIN L8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 04-Mar-2020 14:07:07 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 100.0 uL Dil. Factor: 1.0000
 Sample Info: IC MAIN L8
 Misc. Info.: 280-0089779-007
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 06-Mar-2020 10:24:59 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 08:21:11

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.682	6.683	-0.001	235480	2.50	2.64	M
7 RDX	1	7.748	7.750	-0.002	285067	2.50	2.42	
8 2,4,6-Trinitrophenol	1	7.982	8.056	-0.074	224963	2.50	2.58	
\$ 9 1,2-Dinitrobenzene	1	8.702	8.710	-0.008	367708	2.50	2.51	
10 1,3,5-Trinitrobenzene	1	8.875	8.883	-0.008	618928	2.51	2.54	
11 1,3-Dinitrobenzene	1	9.522	9.529	-0.007	829608	2.51	2.56	
12 Nitrobenzene	1	9.908	9.916	-0.008	547337	2.51	2.57	
14 Tetryl	1	10.208	10.216	-0.008	491187	2.51	2.53	
15 Nitroglycerin	2	10.708	10.729	-0.021	1853418	25.0	25.8	
16 2,4,6-Trinitrotoluene	1	11.175	11.183	-0.008	564111	2.51	2.55	
17 4-Amino-2,6-dinitrotoluene	1	11.322	11.336	-0.014	431730	2.50	2.49	
18 2-Amino-4,6-dinitrotoluene	1	11.608	11.623	-0.015	559598	2.51	2.57	
19 2,6-Dinitrotoluene	1	11.775	11.789	-0.014	398417	2.51	2.50	
20 2,4-Dinitrotoluene	1	11.968	11.983	-0.015	824132	2.51	2.57	
21 o-Nitrotoluene	1	12.815	12.829	-0.014	347403	2.50	2.42	
22 p-Nitrotoluene	1	13.248	13.269	-0.021	301912	2.51	2.51	
23 m-Nitrotoluene	1	13.842	13.863	-0.021	386438	2.50	2.51	
24 PETN	2	14.942	14.969	-0.027	2100383	25.0	26.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 250.00

Units: uL

Report Date: 06-Mar-2020 10:24:59

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200304-89779.b\\03040007.d

Injection Date: 04-Mar-2020 14:07:07

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC MAIN L8

Worklist Smp#: 7

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

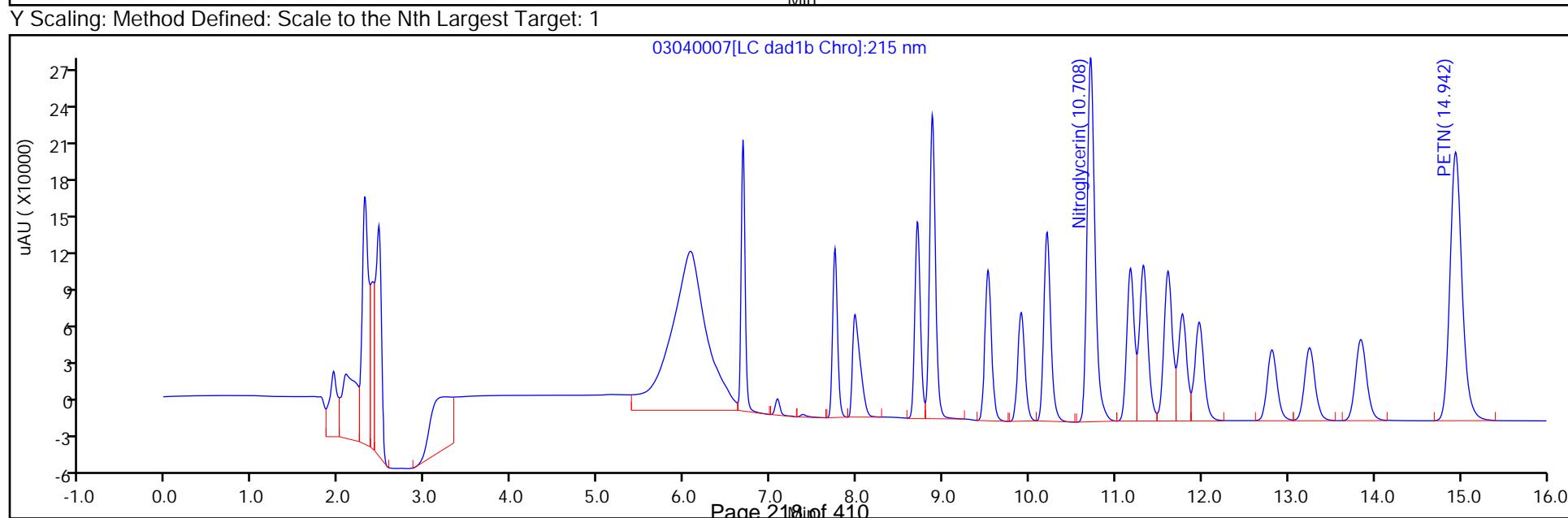
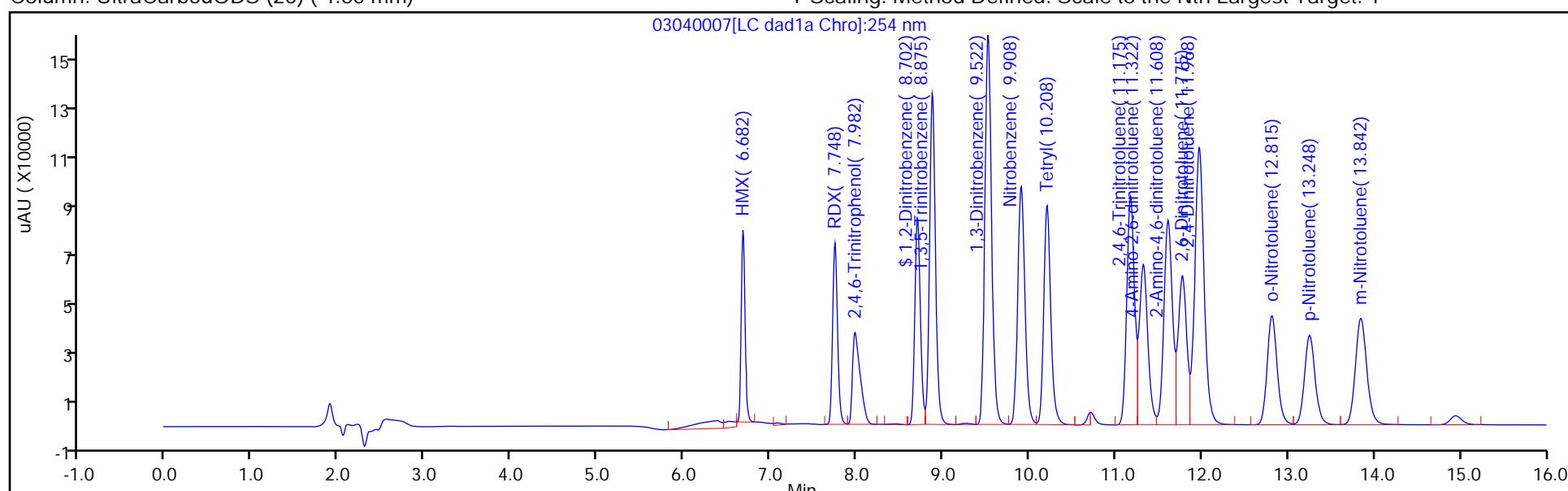
ALS Bottle#: 7

Method: 8330_X3

Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

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



Eurofins TestAmerica, Denver

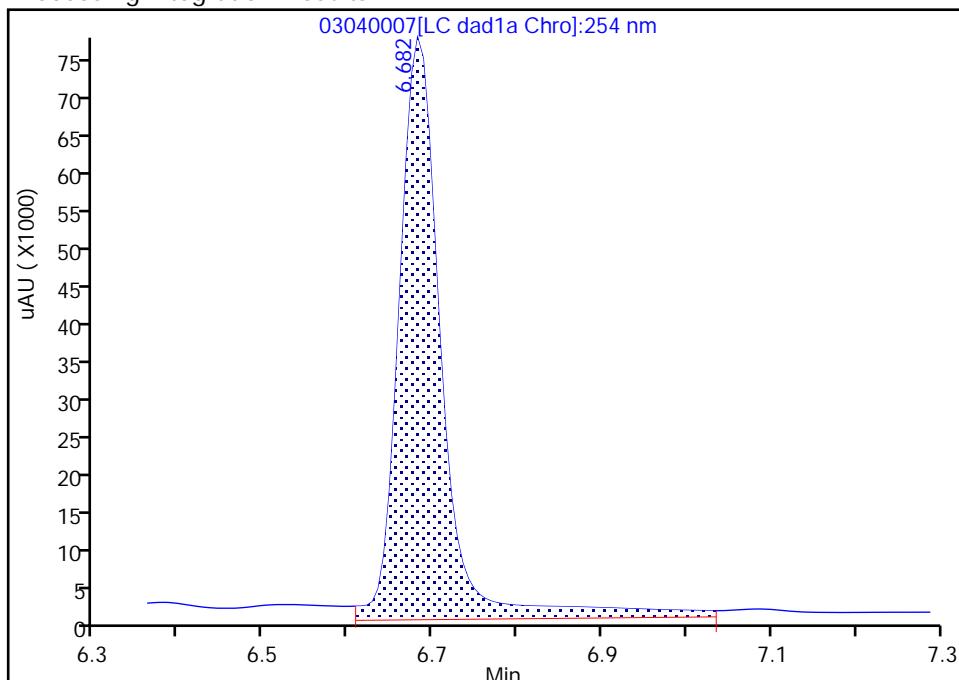
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 Injection Date: 04-Mar-2020 14:07:07 Instrument ID: CHHPLC_X3
 Lims ID: IC MAIN L8
 Client ID:
 Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

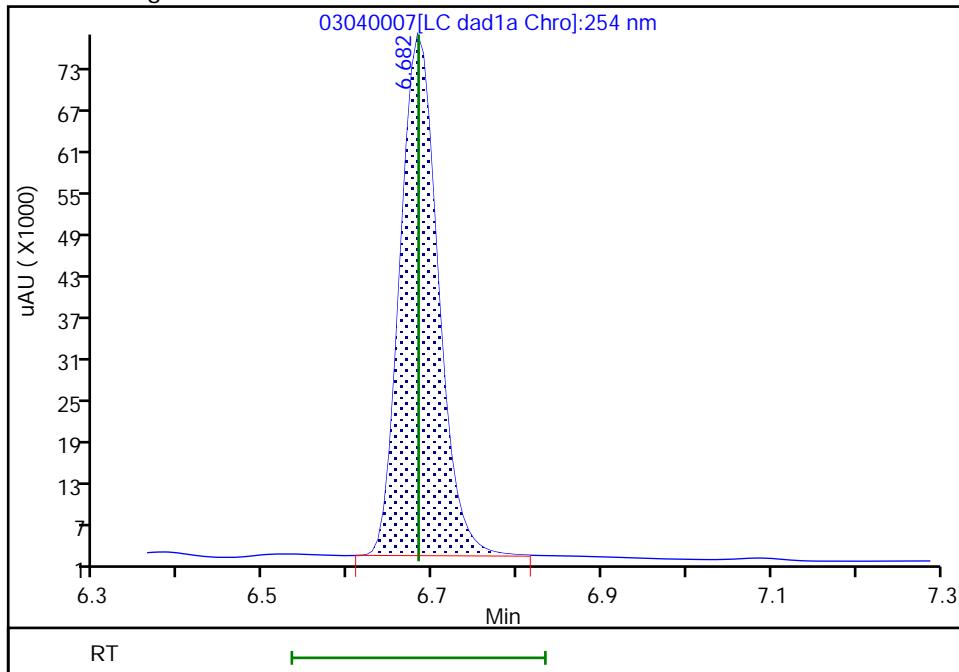
RT: 6.68
 Area: 273190
 Amount: 2.501188
 Amount Units: ug/mL

Processing Integration Results



RT: 6.68
 Area: 235480
 Amount: 2.640575
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 05-Mar-2020 08:19:14

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040008.D
 Lims ID: IC MAIN L7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 04-Mar-2020 14:30:11 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 100.0 uL Dil. Factor: 1.0000
 Sample Info: IC MAIN L7
 Misc. Info.: 280-0089779-008
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 06-Mar-2020 10:25:01 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 08:21:29

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	6.683	0.002	91886	1.00	1.03	M
7 RDX	1	7.759	7.750	0.009	112538	1.00	0.9548	
8 2,4,6-Trinitrophenol	1	8.032	8.056	-0.024	87686	1.00	1.01	
\$ 9 1,2-Dinitrobenzene	1	8.712	8.710	0.002	144385	1.00	0.9875	
10 1,3,5-Trinitrobenzene	1	8.885	8.883	0.002	243854	1.00	1.00	
11 1,3-Dinitrobenzene	1	9.532	9.529	0.003	325678	1.00	1.00	
12 Nitrobenzene	1	9.912	9.916	-0.004	212950	1.00	1.00	
14 Tetryl	1	10.212	10.216	-0.004	193257	1.00	1.00	
15 Nitroglycerin	2	10.719	10.729	-0.010	733033	10.0	10.2	
16 2,4,6-Trinitrotoluene	1	11.172	11.183	-0.011	221993	1.00	1.00	
17 4-Amino-2,6-dinitrotoluene	1	11.325	11.336	-0.011	170514	1.00	0.9830	
18 2-Amino-4,6-dinitrotoluene	1	11.612	11.623	-0.011	219062	1.00	1.01	
19 2,6-Dinitrotoluene	1	11.779	11.789	-0.010	156621	1.00	0.9825	
20 2,4-Dinitrotoluene	1	11.972	11.983	-0.011	323354	1.00	1.01	
21 o-Nitrotoluene	1	12.819	12.829	-0.010	135008	1.00	0.9386	
22 p-Nitrotoluene	1	13.252	13.269	-0.017	117090	1.00	0.9733	
23 m-Nitrotoluene	1	13.852	13.863	-0.011	149937	1.00	0.9721	
24 PETN	2	14.952	14.969	-0.017	825168	10.0	10.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 100.00

Units: uL

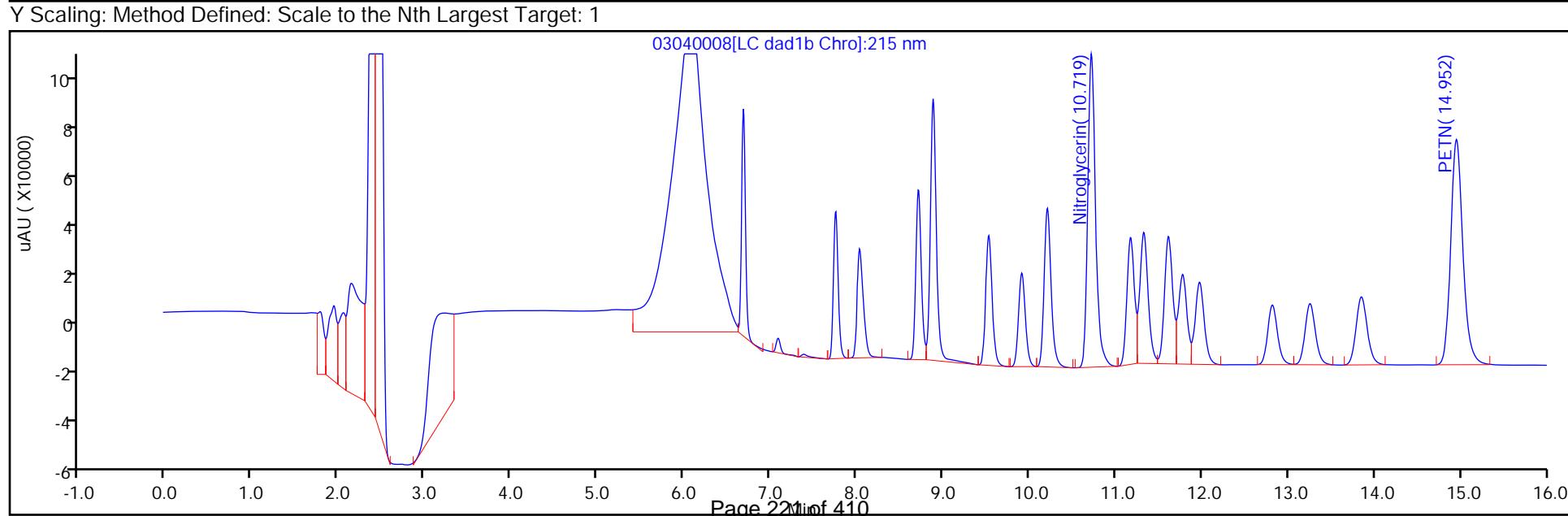
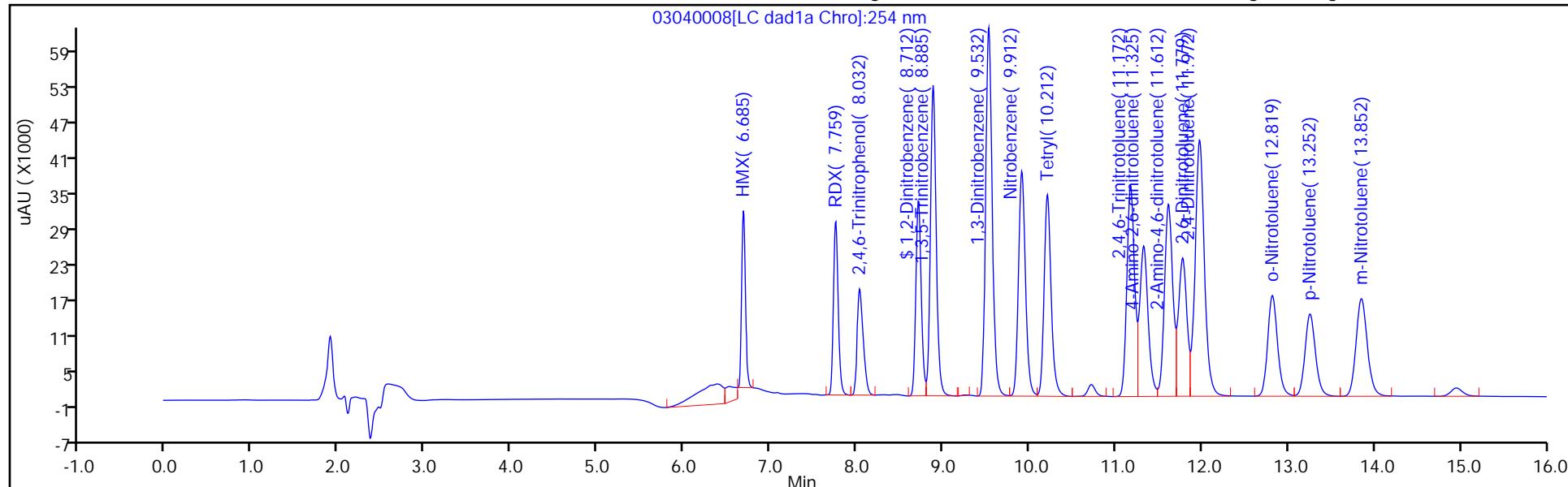
Report Date: 06-Mar-2020 10:25:02

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200304-89779.b\\03040008.d
 Injection Date: 04-Mar-2020 14:30:11 Instrument ID: CHHPLC_X3
 Lims ID: IC MAIN L7 Operator ID: CB
 Client ID:
 Injection Vol: 100.0 ul Worklist Smp#: 8
 Method: 8330_X3
 Column: UltraCarb5uODS (20) (4.60 mm)

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



Eurofins TestAmerica, Denver

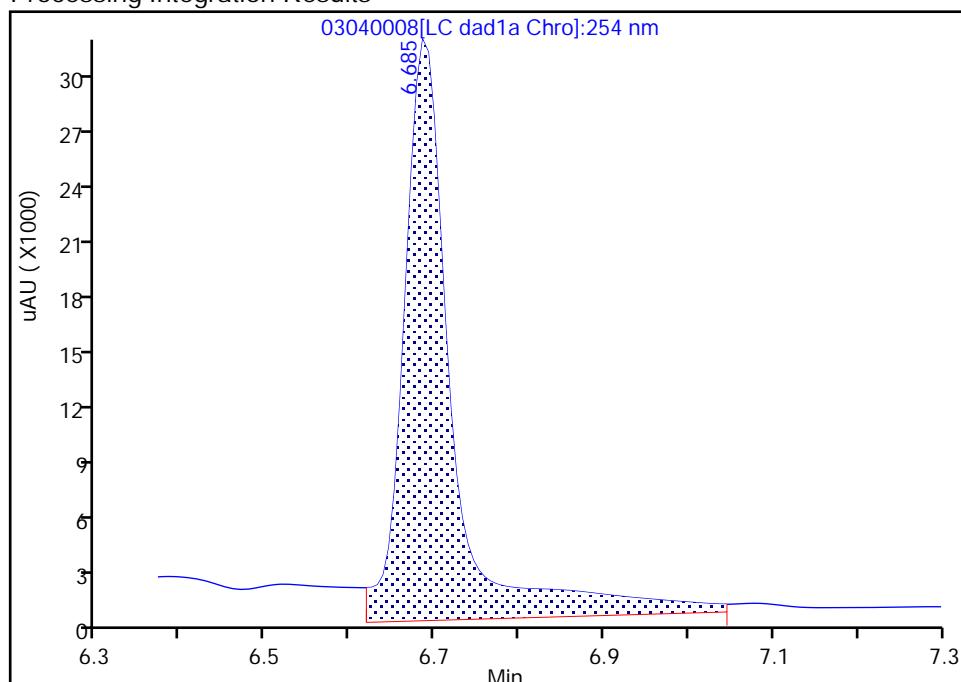
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 Injection Date: 04-Mar-2020 14:30:11 Instrument ID: CHHPLC_X3
 Lims ID: IC MAIN L7
 Client ID:
 Operator ID: CB ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

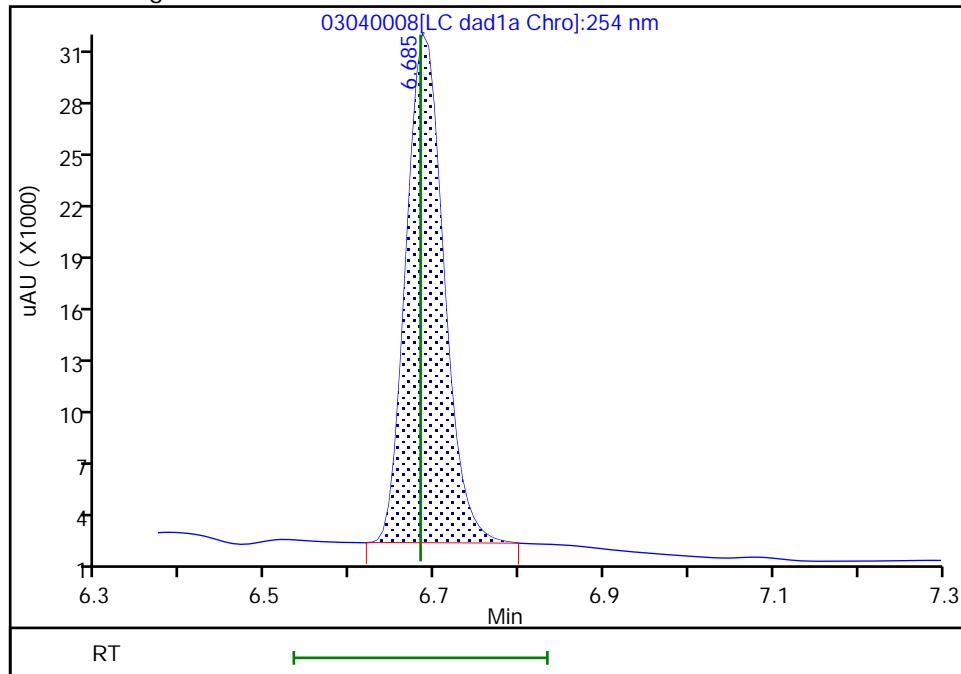
RT: 6.69
 Area: 125872
 Amount: 0.749140
 Amount Units: ug/mL

Processing Integration Results



RT: 6.69
 Area: 91886
 Amount: 1.030371
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 05-Mar-2020 08:21:25

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040009.D
 Lims ID: IC MAIN L6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 04-Mar-2020 14:53:07 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 100.0 uL Dil. Factor: 1.0000
 Sample Info: IC MAIN L6
 Misc. Info.: 280-0089779-009
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 06-Mar-2020 10:25:02 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 08:21:45

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.683	6.683	0.000	65031	0.7000	0.7292	M
7 RDX	1	7.756	7.750	0.006	79432	0.7000	0.6739	
8 2,4,6-Trinitrophenol	1	8.043	8.056	-0.013	61460	0.7000	0.7044	
\$ 9 1,2-Dinitrobenzene	1	8.709	8.710	-0.001	101893	0.7000	0.6969	
10 1,3,5-Trinitrobenzene	1	8.883	8.883	0.000	171702	0.7014	0.7053	
11 1,3-Dinitrobenzene	1	9.529	9.529	0.000	230021	0.7014	0.7094	
12 Nitrobenzene	1	9.916	9.916	0.000	151296	0.7028	0.7113	
14 Tetryl	1	10.216	10.216	0.000	135548	0.7014	0.6992	
15 Nitroglycerin	2	10.729	10.729	0.000	517135	7.00	7.20	
16 2,4,6-Trinitrotoluene	1	11.182	11.183	-0.001	154334	0.7028	0.6986	
17 4-Amino-2,6-dinitrotoluene	1	11.336	11.336	0.000	122308	0.7007	0.7051	
18 2-Amino-4,6-dinitrotoluene	1	11.622	11.623	-0.001	152060	0.7028	0.6990	
19 2,6-Dinitrotoluene	1	11.789	11.789	0.000	113482	0.7028	0.7119	
20 2,4-Dinitrotoluene	1	11.982	11.983	-0.001	227341	0.7028	0.7079	
21 o-Nitrotoluene	1	12.822	12.829	-0.007	96240	0.7000	0.6691	
22 p-Nitrotoluene	1	13.262	13.269	-0.007	83136	0.7014	0.6911	
23 m-Nitrotoluene	1	13.856	13.863	-0.007	106848	0.7007	0.6927	
24 PETN	2	14.956	14.969	-0.013	582311	7.00	7.33	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 70.00

Units: uL

Report Date: 06-Mar-2020 10:25:02

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200304-89779.b\\03040009.d

Injection Date: 04-Mar-2020 14:53:07

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC MAIN L6

Worklist Smp#: 9

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

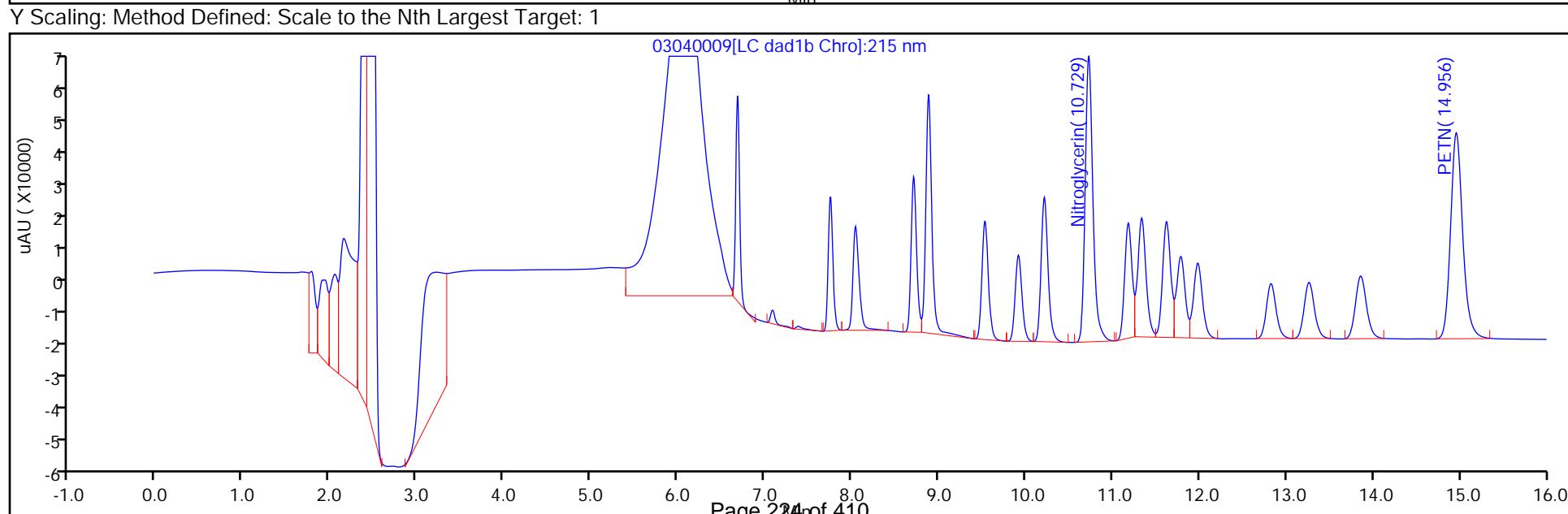
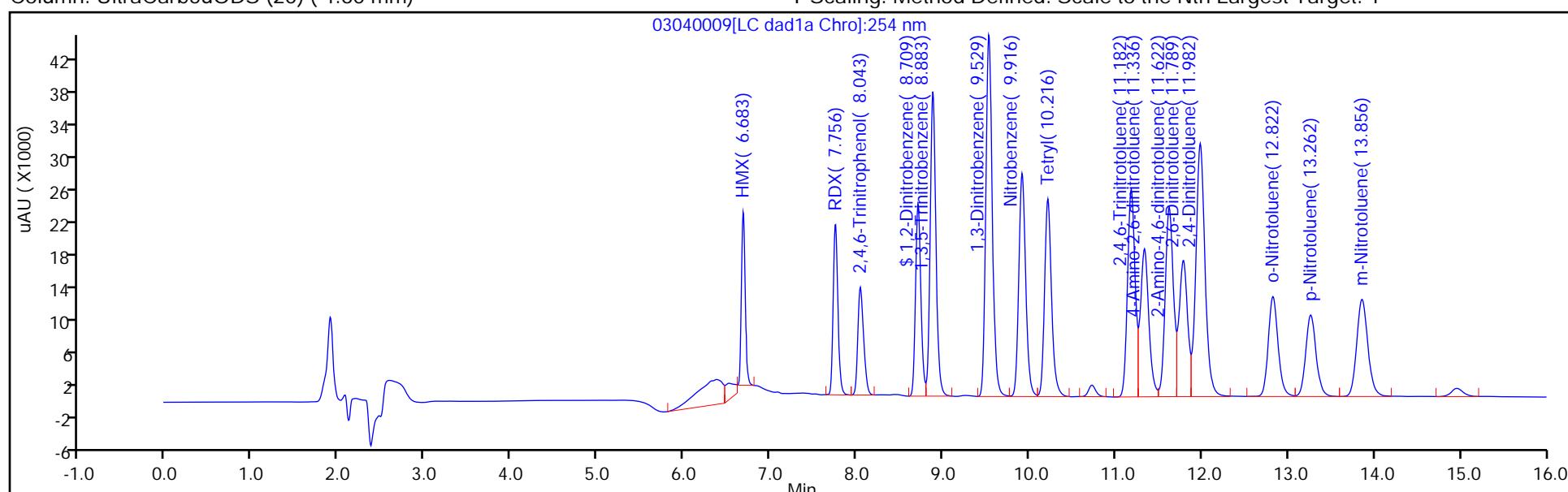
ALS Bottle#: 9

Method: 8330_X3

Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

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



Eurofins TestAmerica, Denver

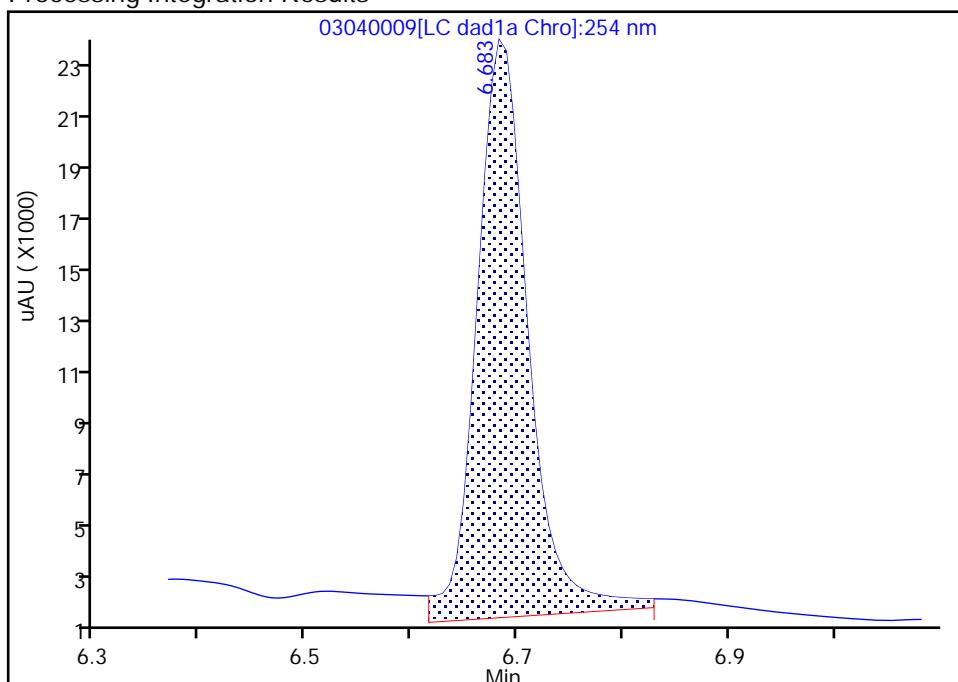
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 Injection Date: 04-Mar-2020 14:53:07 Instrument ID: CHHPLC_X3
 Lims ID: IC MAIN L6
 Client ID:
 Operator ID: CB ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

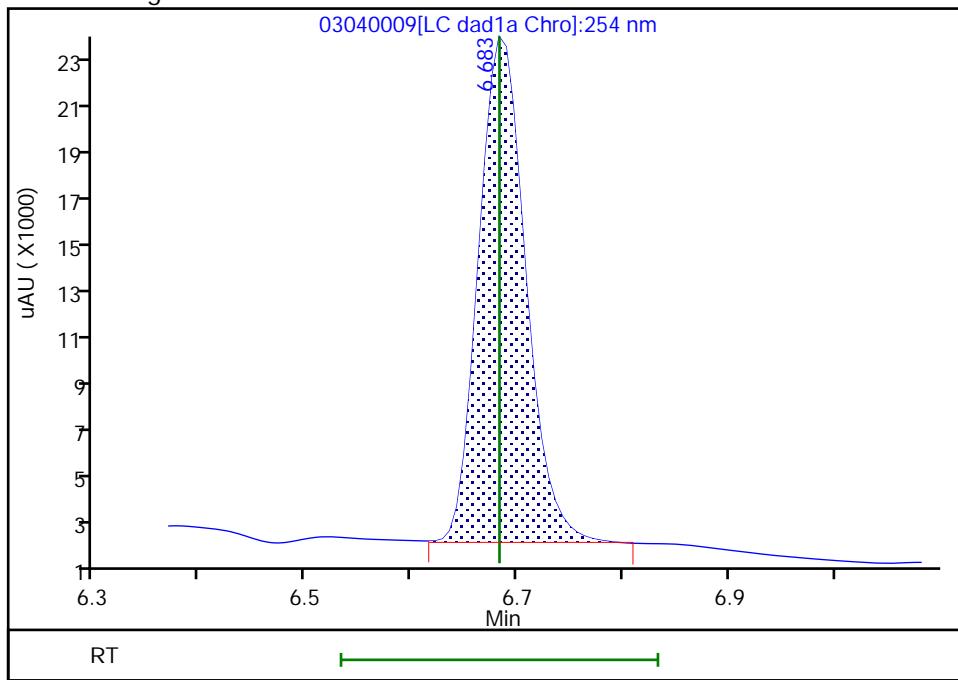
RT: 6.68
 Area: 73442
 Amount: 0.448436
 Amount Units: ug/mL

Processing Integration Results



RT: 6.68
 Area: 65031
 Amount: 0.729231
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 05-Mar-2020 08:21:40

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040010.D
 Lims ID: IC MAIN L5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 04-Mar-2020 15:16:04 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 100.0 uL Dil. Factor: 1.0000
 Sample Info: IC MAIN L5
 Misc. Info.: 280-0089779-010
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 06-Mar-2020 10:25:03 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 08:22:03

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.684	6.683	0.001	36878	0.4000	0.4135	M
7 RDX	1	7.758	7.750	0.008	45467	0.4000	0.3857	
8 2,4,6-Trinitrophenol	1	8.058	8.056	0.002	34831	0.4000	0.3992	
\$ 9 1,2-Dinitrobenzene	1	8.711	8.710	0.001	57929	0.4000	0.3962	
10 1,3,5-Trinitrobenzene	1	8.884	8.883	0.001	97515	0.4008	0.4005	
11 1,3-Dinitrobenzene	1	9.531	9.529	0.002	130783	0.4008	0.4033	
12 Nitrobenzene	1	9.917	9.916	0.001	85822	0.4016	0.4035	
14 Tetryl	1	10.217	10.216	0.001	77206	0.4008	0.3982	
15 Nitroglycerin	2	10.731	10.729	0.002	294044	4.00	4.10	
16 2,4,6-Trinitrotoluene	1	11.184	11.183	0.001	88361	0.4016	0.4000	
17 4-Amino-2,6-dinitrotoluene	1	11.344	11.336	0.008	68761	0.4004	0.3964	
18 2-Amino-4,6-dinitrotoluene	1	11.631	11.623	0.008	86951	0.4016	0.3997	
19 2,6-Dinitrotoluene	1	11.791	11.789	0.002	64229	0.4016	0.4029	
20 2,4-Dinitrotoluene	1	11.991	11.983	0.008	129006	0.4016	0.4017	
21 o-Nitrotoluene	1	12.831	12.829	0.002	54929	0.4000	0.3819	
22 p-Nitrotoluene	1	13.271	13.269	0.002	47433	0.4008	0.3943	
23 m-Nitrotoluene	1	13.871	13.863	0.008	60905	0.4004	0.3949	
24 PETN	2	14.971	14.969	0.002	329970	4.00	4.15	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 40.00

Units: uL

Report Date: 06-Mar-2020 10:25:04

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200304-89779.b\\03040010.d

Injection Date: 04-Mar-2020 15:16:04

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC MAIN L5

Worklist Smp#: 10

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

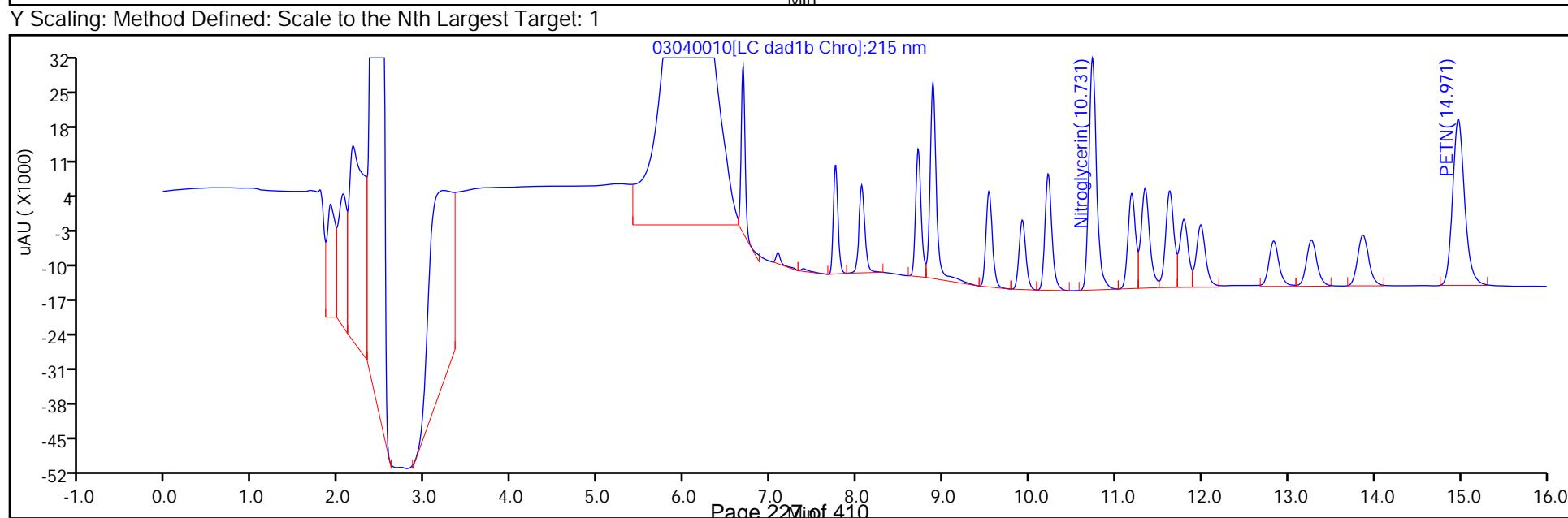
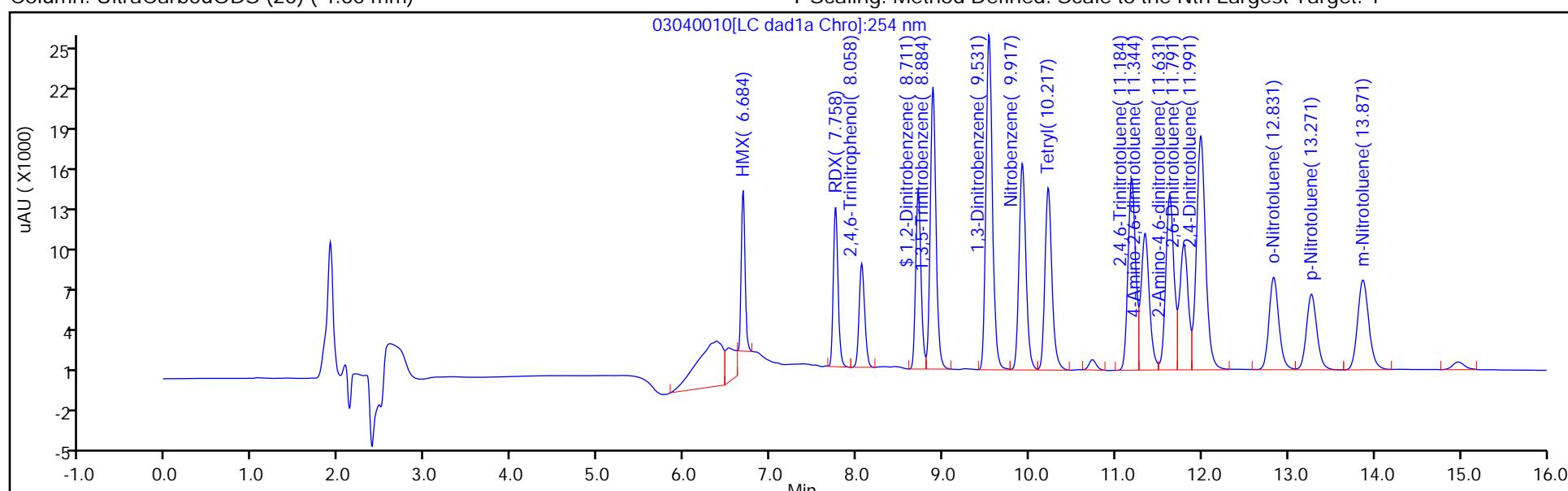
ALS Bottle#: 10

Method: 8330_X3

Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

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



Eurofins TestAmerica, Denver

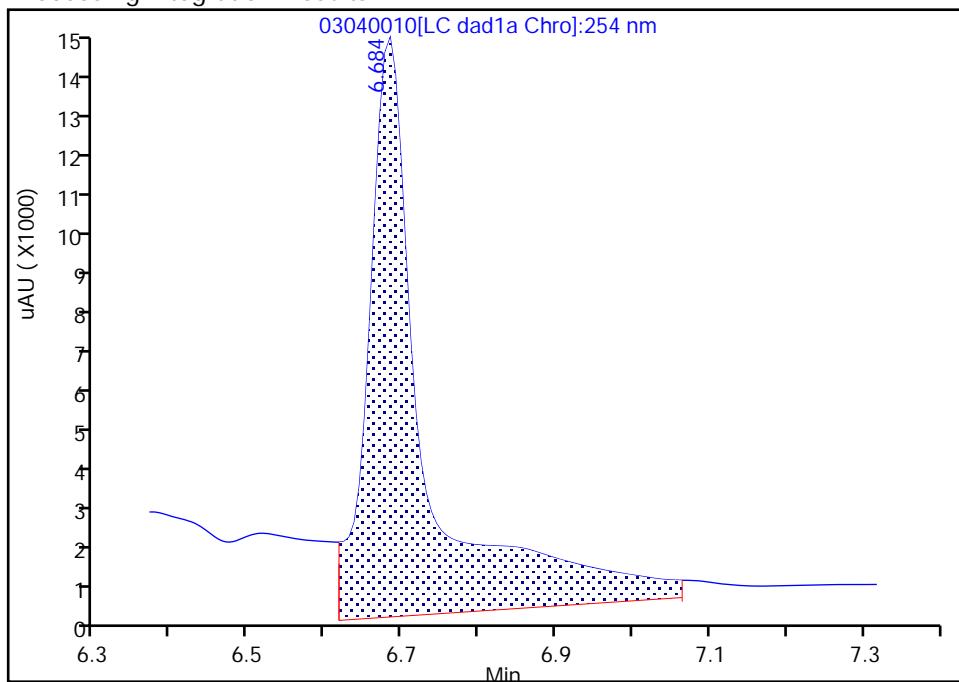
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040010.d
 Injection Date: 04-Mar-2020 15:16:04 Instrument ID: CHHPLC_X3
 Lims ID: IC MAIN L5
 Client ID:
 Operator ID: CB ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

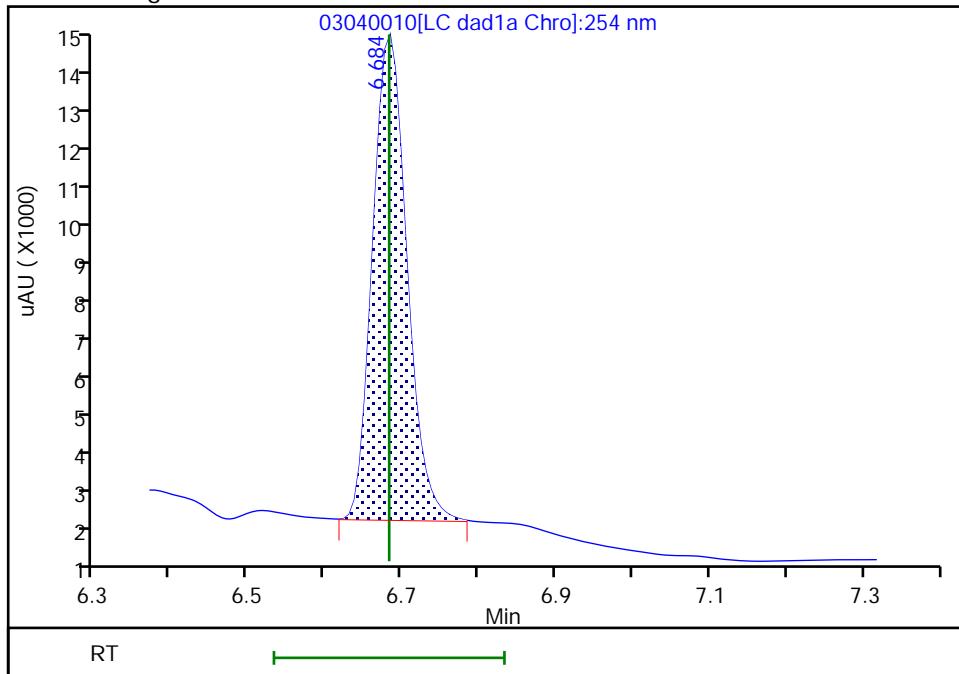
RT: 6.68
 Area: 70815
 Amount: 0.436397
 Amount Units: ug/mL

Processing Integration Results



RT: 6.68
 Area: 36878
 Amount: 0.413535
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 05-Mar-2020 08:21:59

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040011.D
 Lims ID: IC MAIN L4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 04-Mar-2020 15:39:01 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 100.0 uL Dil. Factor: 1.0000
 Sample Info: IC MAIN L4
 Misc. Info.: 280-0089779-011
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 06-Mar-2020 10:25:05 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 08:22:21

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.683	6.683	0.000	22889	0.2500	0.2567	M
7 RDX	1	7.750	7.750	0.000	28526	0.2500	0.2420	
8 2,4,6-Trinitrophenol	1	8.063	8.056	0.007	21674	0.2500	0.2484	
\$ 9 1,2-Dinitrobenzene	1	8.710	8.710	0.000	36137	0.2500	0.2471	
10 1,3,5-Trinitrobenzene	1	8.883	8.883	0.000	60732	0.2505	0.2495	
11 1,3-Dinitrobenzene	1	9.536	9.529	0.007	80852	0.2505	0.2493	
12 Nitrobenzene	1	9.923	9.916	0.007	52585	0.2510	0.2472	
14 Tetryl	1	10.216	10.216	0.000	47459	0.2505	0.2448	
15 Nitroglycerin	2	10.730	10.729	0.001	183811	2.50	2.56	
16 2,4,6-Trinitrotoluene	1	11.183	11.183	0.000	54330	0.2510	0.2459	
17 4-Amino-2,6-dinitrotoluene	1	11.336	11.336	0.000	43785	0.2503	0.2524	
18 2-Amino-4,6-dinitrotoluene	1	11.623	11.623	0.000	53716	0.2510	0.2469	
19 2,6-Dinitrotoluene	1	11.790	11.789	0.001	40182	0.2510	0.2521	
20 2,4-Dinitrotoluene	1	11.983	11.983	0.000	80402	0.2510	0.2503	
21 o-Nitrotoluene	1	12.830	12.829	0.001	34390	0.2500	0.2391	
22 p-Nitrotoluene	1	13.263	13.269	-0.006	29623	0.2505	0.2462	
23 m-Nitrotoluene	1	13.863	13.863	0.000	37787	0.2503	0.2450	
24 PETN	2	14.963	14.969	-0.006	204225	2.50	2.57	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 25.00

Units: uL

Report Date: 06-Mar-2020 10:25:05

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200304-89779.b\\03040011.d

Injection Date: 04-Mar-2020 15:39:01

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC MAIN L4

Worklist Smp#: 11

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

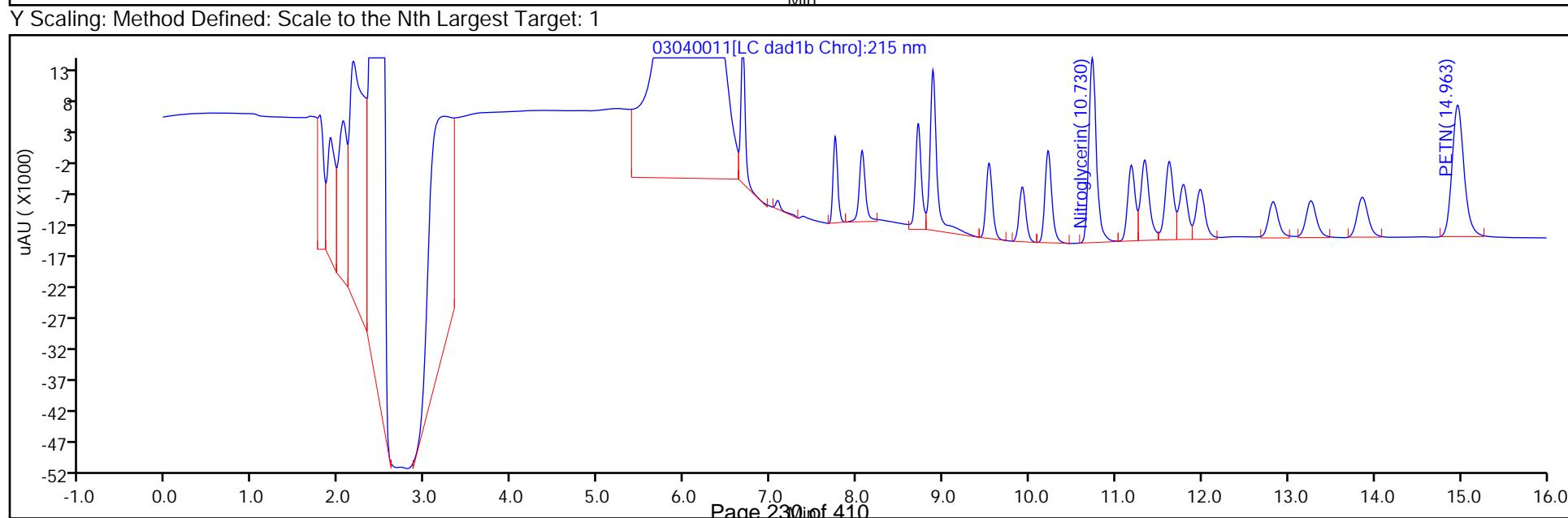
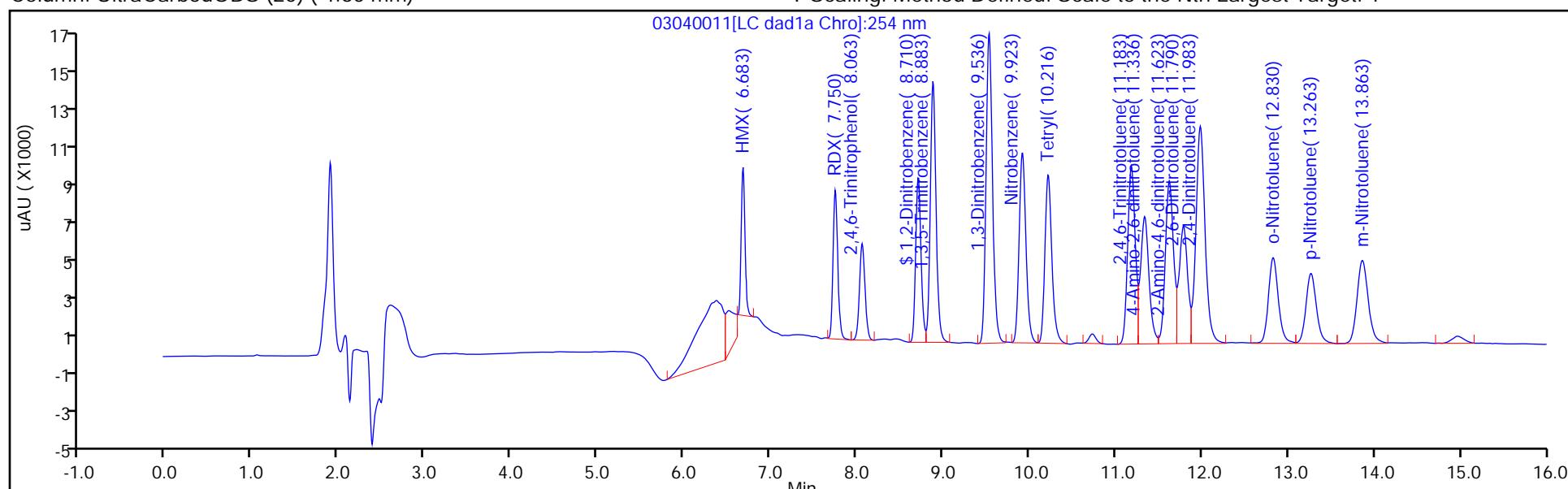
ALS Bottle#: 11

Method: 8330_X3

Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

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



Eurofins TestAmerica, Denver

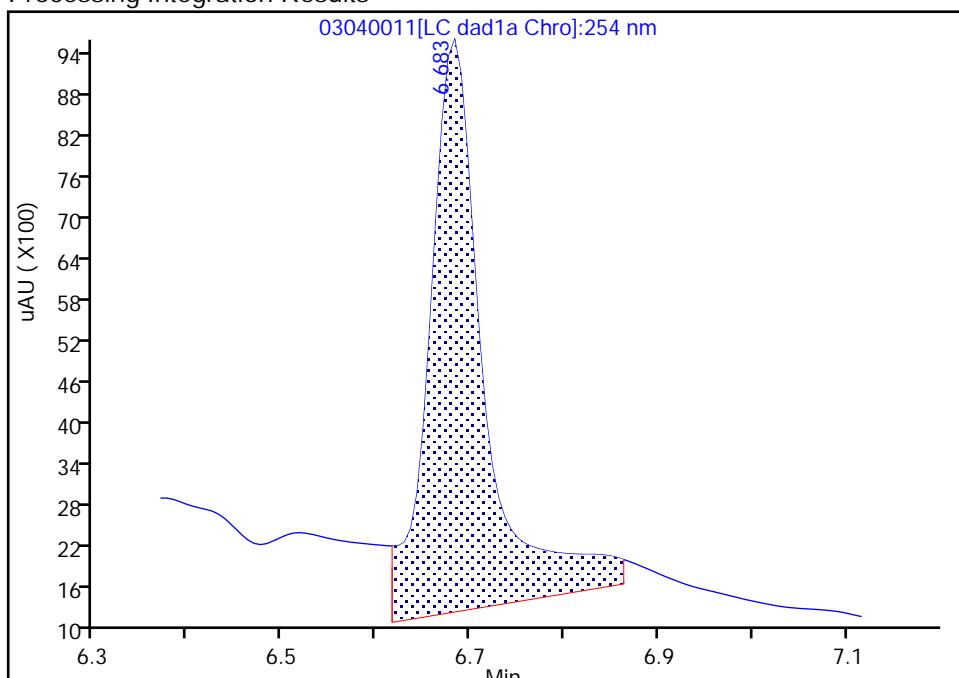
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040011.d
 Injection Date: 04-Mar-2020 15:39:01 Instrument ID: CHHPLC_X3
 Lims ID: IC MAIN L4
 Client ID:
 Operator ID: CB ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

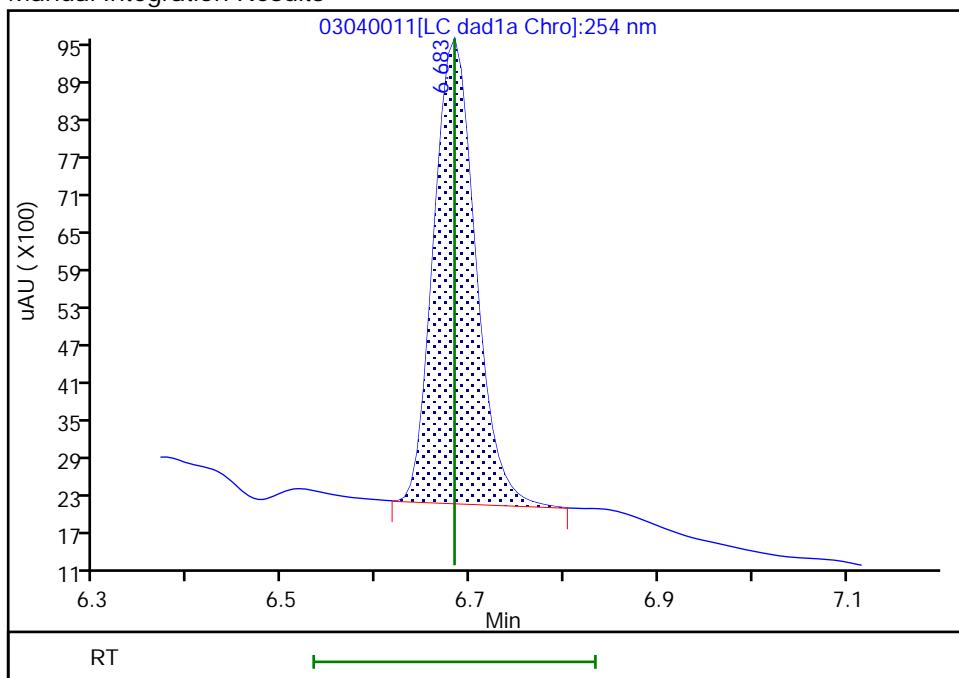
RT: 6.68
 Area: 33992
 Amount: 0.316859
 Amount Units: ug/mL

Processing Integration Results



RT: 6.68
 Area: 22889
 Amount: 0.256668
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 05-Mar-2020 08:22:17

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040012.D
 Lims ID: IC MAIN L3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 04-Mar-2020 16:01:56 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 100.0 uL Dil. Factor: 1.0000
 Sample Info: IC MAIN L3
 Misc. Info.: 280-0089779-012
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 06-Mar-2020 10:25:06 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 08:22:43

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.682	6.683	-0.001	9069	0.1000	0.1017	M
7 RDX	1	7.749	7.750	-0.001	11806	0.1000	0.1002	
8 2,4,6-Trinitrophenol	1	8.069	8.056	0.013	8625	0.1000	0.0989	
\$ 9 1,2-Dinitrobenzene	1	8.709	8.710	-0.001	14589	0.1000	0.0998	
10 1,3,5-Trinitrobenzene	1	8.882	8.883	-0.001	24274	0.1002	0.0997	
11 1,3-Dinitrobenzene	1	9.529	9.529	0.000	32466	0.1002	0.1001	
12 Nitrobenzene	1	9.915	9.916	-0.001	21325	0.1004	0.1003	
14 Tetryl	1	10.215	10.216	-0.001	19275	0.1002	0.0994	
15 Nitroglycerin	2	10.722	10.729	-0.007	71710	1.00	1.00	
16 2,4,6-Trinitrotoluene	1	11.175	11.183	-0.008	22080	0.1004	0.0999	
17 4-Amino-2,6-dinitrotoluene	1	11.329	11.336	-0.007	17102	0.1001	0.0986	
18 2-Amino-4,6-dinitrotoluene	1	11.615	11.623	-0.008	21640	0.1004	0.0995	
19 2,6-Dinitrotoluene	1	11.782	11.789	-0.007	15948	0.1004	0.1000	
20 2,4-Dinitrotoluene	1	11.975	11.983	-0.008	31840	0.1004	0.0991	
21 o-Nitrotoluene	1	12.822	12.829	-0.007	14255	0.1000	0.0991	
22 p-Nitrotoluene	1	13.255	13.269	-0.014	11935	0.1002	0.0992	
23 m-Nitrotoluene	1	13.855	13.863	-0.008	15234	0.1001	0.0988	
24 PETN	2	14.962	14.969	-0.007	80671	1.00	1.02	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 10.00

Units: uL

Report Date: 06-Mar-2020 10:25:06

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200304-89779.b\\03040012.d

Injection Date: 04-Mar-2020 16:01:56

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC MAIN L3

Worklist Smp#: 12

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

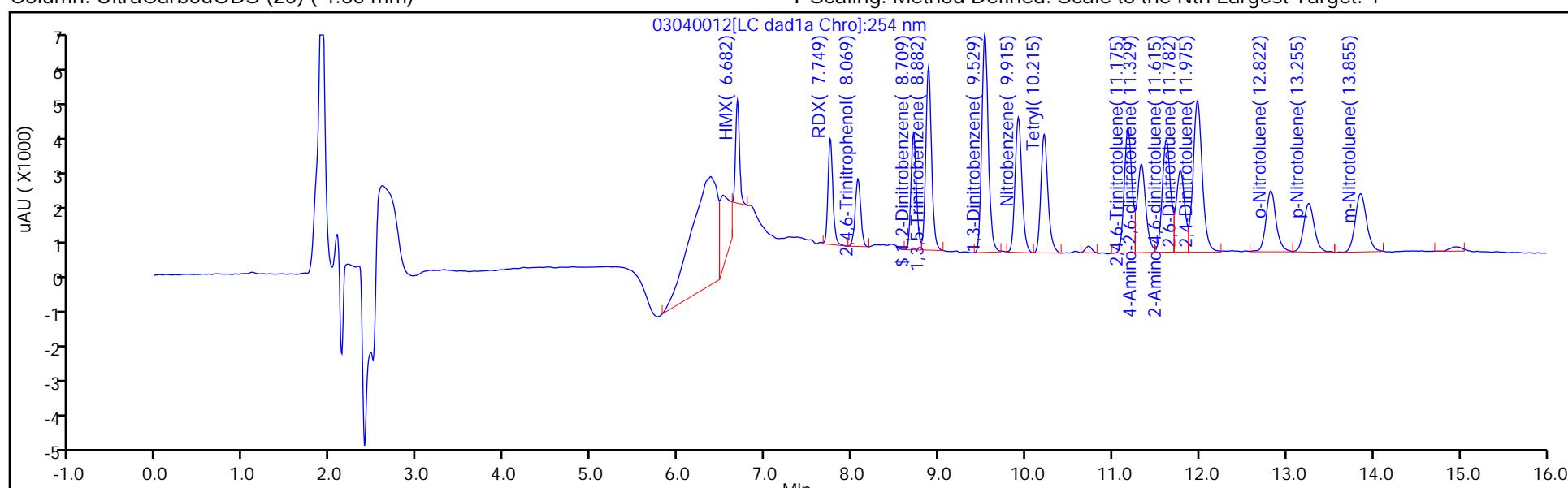
ALS Bottle#: 12

Method: 8330_X3

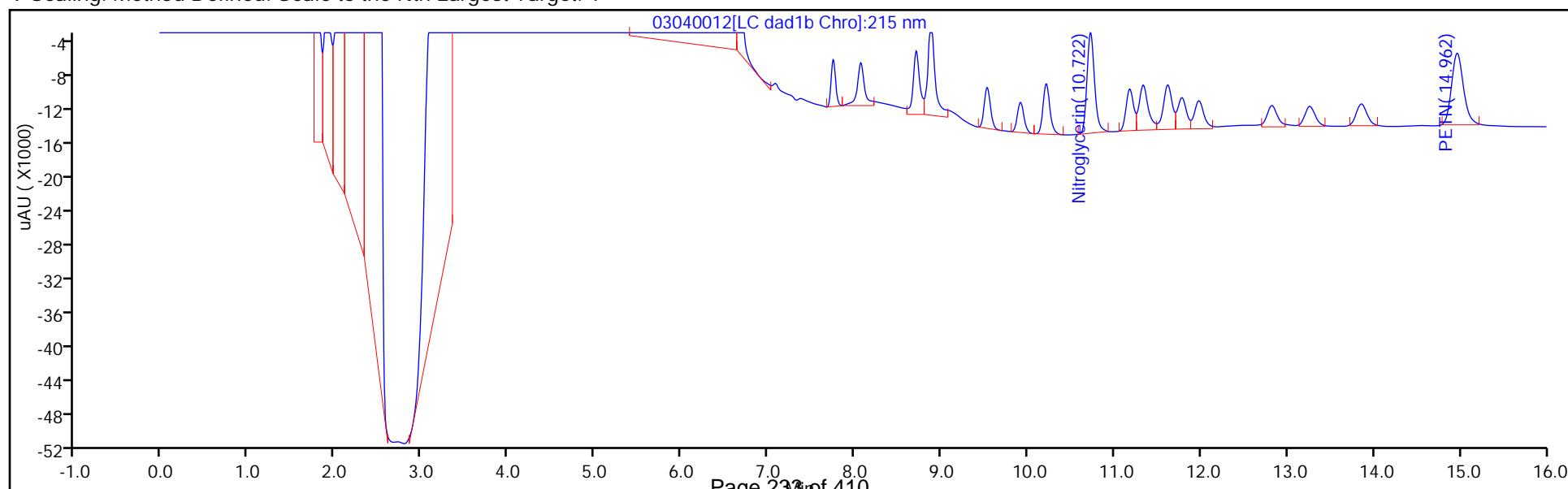
Limit Group: GCSV - 8330

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

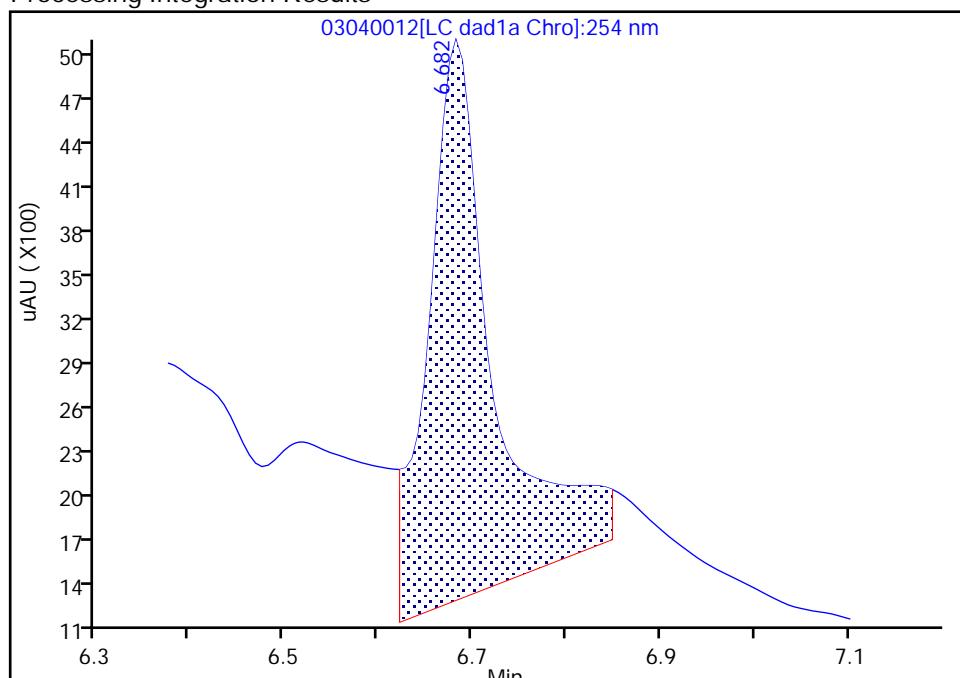
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040012.d
 Injection Date: 04-Mar-2020 16:01:56 Instrument ID: CHHPLC_X3
 Lims ID: IC MAIN L3
 Client ID:
 Operator ID: CB ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

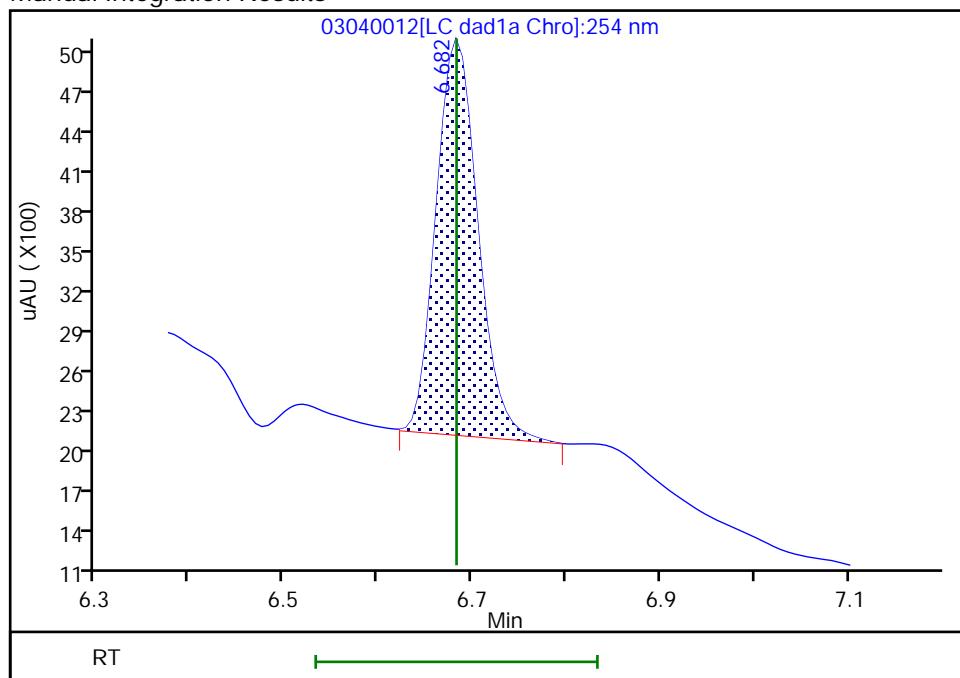
RT: 6.68
 Area: 18300
 Amount: 0.148246
 Amount Units: ug/mL

Processing Integration Results



RT: 6.68
 Area: 9069
 Amount: 0.101696
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 05-Mar-2020 08:22:39

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040013.D
 Lims ID: IC MAIN L2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 04-Mar-2020 16:24:51 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 100.0 uL Dil. Factor: 1.0000
 Sample Info: IC MAIN L2
 Misc. Info.: 280-0089779-013
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 06-Mar-2020 10:25:07 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 08:23:01

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.684	6.683	0.001	4200	0.0500	0.0471	M
7 RDX	1	7.750	7.750	0.000	6064	0.0500	0.0514	
8 2,4,6-Trinitrophenol	1	8.077	8.056	0.021	4344	0.0500	0.0498	
\$ 9 1,2-Dinitrobenzene	1	8.710	8.710	0.000	7419	0.0500	0.0507	
10 1,3,5-Trinitrobenzene	1	8.884	8.883	0.001	12180	0.0501	0.0500	
11 1,3-Dinitrobenzene	1	9.530	9.529	0.001	16020	0.0501	0.0494	
12 Nitrobenzene	1	9.917	9.916	0.001	10390	0.0502	0.0489	
14 Tetryl	1	10.217	10.216	0.001	9672	0.0501	0.0499	
15 Nitroglycerin	2	10.730	10.729	0.001	34296	0.5000	0.4777	
16 2,4,6-Trinitrotoluene	1	11.183	11.183	0.000	11231	0.0502	0.0508	
17 4-Amino-2,6-dinitrotoluene	1	11.337	11.336	0.001	9007	0.0501	0.0519	
18 2-Amino-4,6-dinitrotoluene	1	11.623	11.623	0.000	10795	0.0502	0.0496	
19 2,6-Dinitrotoluene	1	11.790	11.789	0.001	8065	0.0502	0.0506	
20 2,4-Dinitrotoluene	1	11.983	11.983	0.000	16087	0.0502	0.0501	
21 o-Nitrotoluene	1	12.830	12.829	0.001	7801	0.0500	0.0542	
22 p-Nitrotoluene	1	13.263	13.269	-0.006	6176	0.0501	0.0513	
23 m-Nitrotoluene	1	13.863	13.863	0.000	8074	0.0501	0.0523	
24 PETN	2	14.963	14.969	-0.006	37166	0.5000	0.4678	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 5.00

Units: uL

Report Date: 06-Mar-2020 10:25:07

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200304-89779.b\\03040013.d

Injection Date: 04-Mar-2020 16:24:51

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC MAIN L2

Worklist Smp#: 13

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

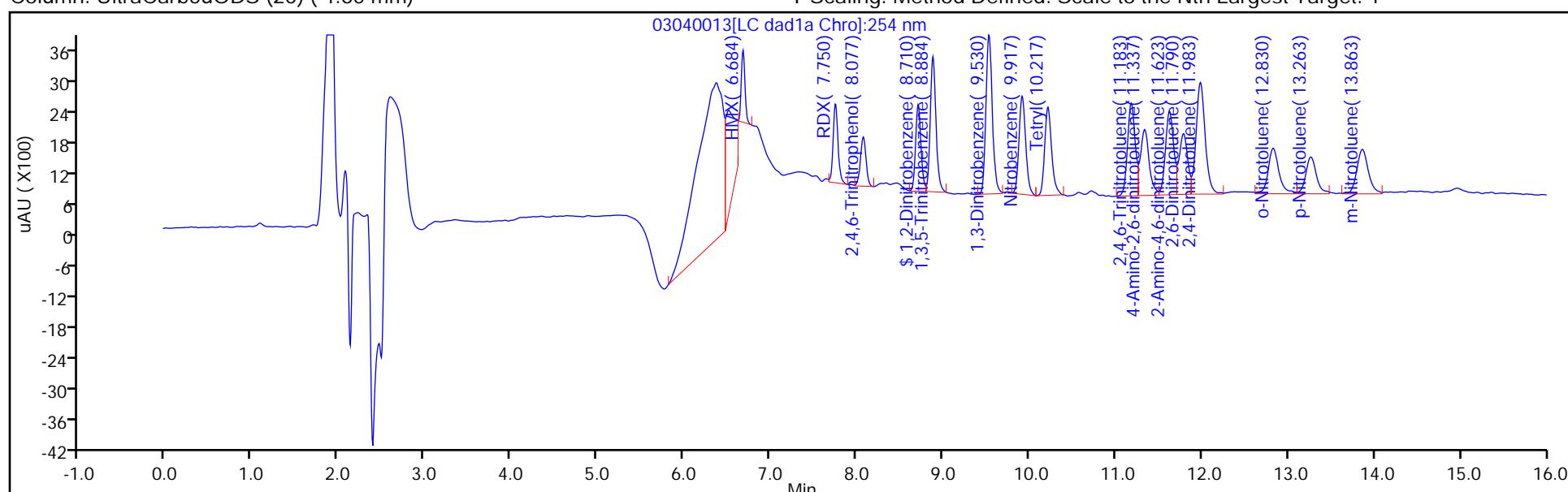
ALS Bottle#: 13

Method: 8330_X3

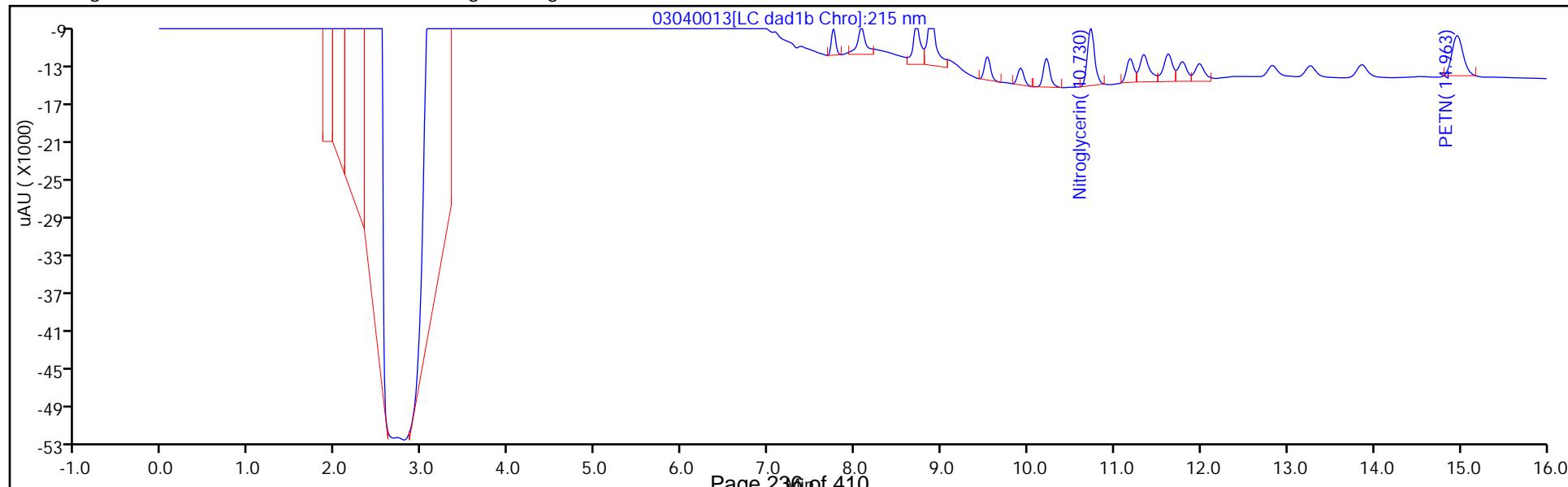
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

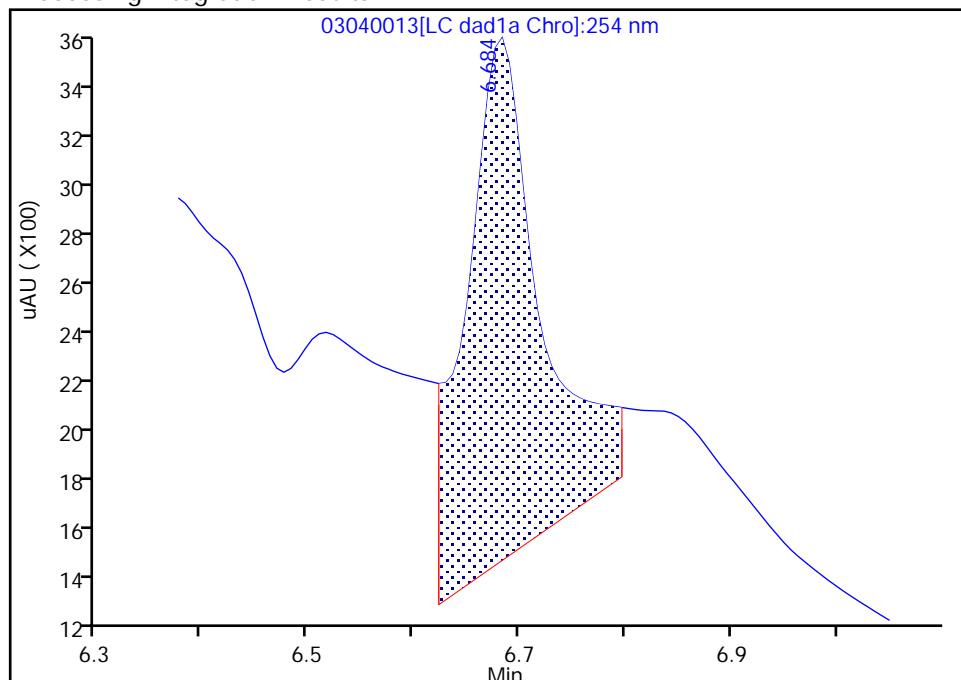
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040013.d
 Injection Date: 04-Mar-2020 16:24:51 Instrument ID: CHHPLC_X3
 Lims ID: IC MAIN L2
 Client ID:
 Operator ID: CB ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

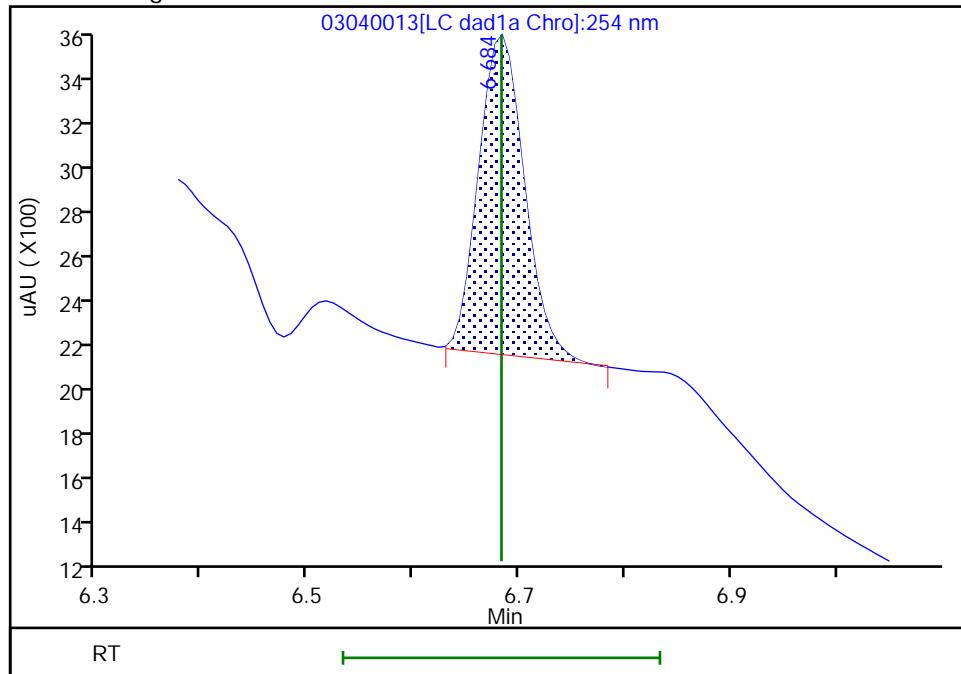
RT: 6.68
 Area: 10197
 Amount: 0.075771
 Amount Units: ug/mL

Processing Integration Results



RT: 6.68
 Area: 4200
 Amount: 0.047097
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 05-Mar-2020 08:22:58

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040014.D
 Lims ID: IC MAIN L1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 04-Mar-2020 16:47:48 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 100.0 uL Dil. Factor: 1.0000
 Sample Info: IC MAIN L1
 Misc. Info.: 280-0089779-014
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 06-Mar-2020 10:25:08 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 08:23:37

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.682	6.683	-0.001	1520	0.0200	0.0170	M
7 RDX	1	7.755	7.750	0.005	2716	0.0200	0.0230	
8 2,4,6-Trinitrophenol	1	8.082	8.056	0.026	1712	0.0200	0.0196	
\$ 9 1,2-Dinitrobenzene	1	8.715	8.710	0.005	2981	0.0200	0.0204	
10 1,3,5-Trinitrobenzene	1	8.882	8.883	-0.001	4836	0.0200	0.0199	
11 1,3-Dinitrobenzene	1	9.535	9.529	0.006	6353	0.0200	0.0196	
12 Nitrobenzene	1	9.922	9.916	0.006	4287	0.0201	0.0202	
14 Tetryl	1	10.215	10.216	-0.001	4033	0.0200	0.0208	
15 Nitroglycerin	2	10.728	10.729	-0.001	13145	0.2000	0.1831	
16 2,4,6-Trinitrotoluene	1	11.182	11.183	-0.001	4452	0.0201	0.0202	
17 4-Amino-2,6-dinitrotoluene	1	11.342	11.336	0.006	3460	0.0200	0.0199	
18 2-Amino-4,6-dinitrotoluene	1	11.622	11.623	-0.001	4452	0.0201	0.0205	M
19 2,6-Dinitrotoluene	1	11.788	11.789	-0.001	3203	0.0201	0.0201	M
20 2,4-Dinitrotoluene	1	11.988	11.983	0.005	6351	0.0201	0.0198	
21 o-Nitrotoluene	1	12.828	12.829	-0.001	3316	0.0200	0.0231	
22 p-Nitrotoluene	1	13.268	13.269	-0.001	2555	0.0200	0.0212	
23 m-Nitrotoluene	1	13.868	13.863	0.005	3216	0.0200	0.0209	
24 PETN	2	14.962	14.969	-0.007	13348	0.2000	0.1680	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 2.00

Units: uL

Report Date: 06-Mar-2020 10:25:09

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200304-89779.b\\03040014.d

Injection Date: 04-Mar-2020 16:47:48

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: IC MAIN L1

Worklist Smp#: 14

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

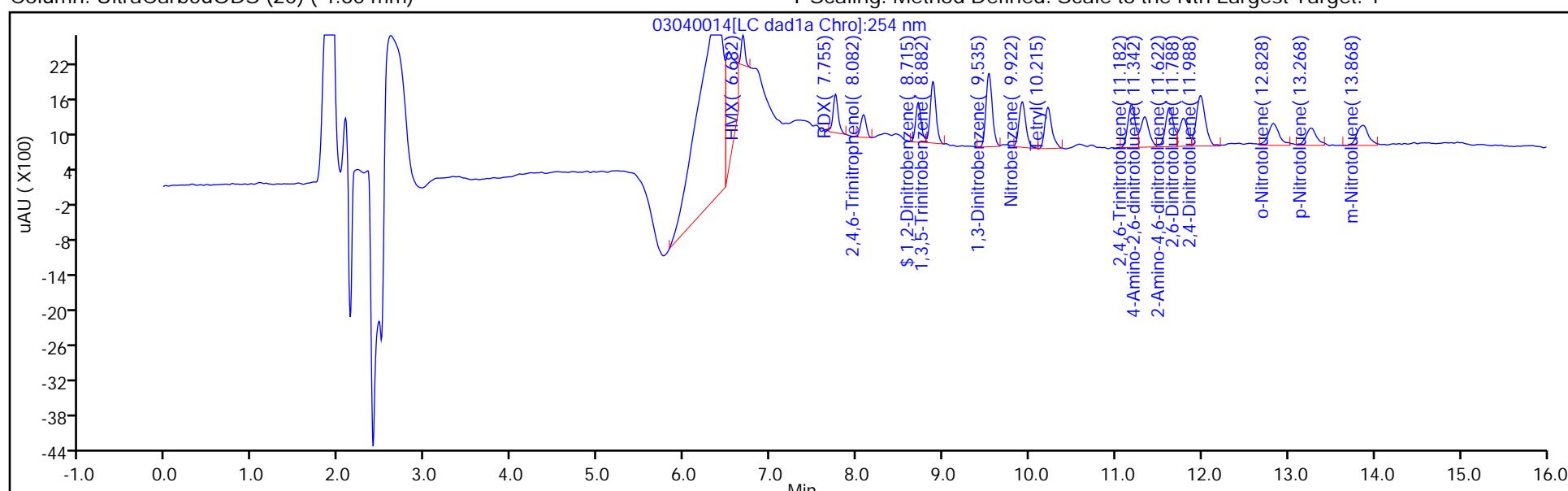
ALS Bottle#: 14

Method: 8330_X3

Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

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



Eurofins TestAmerica, Denver

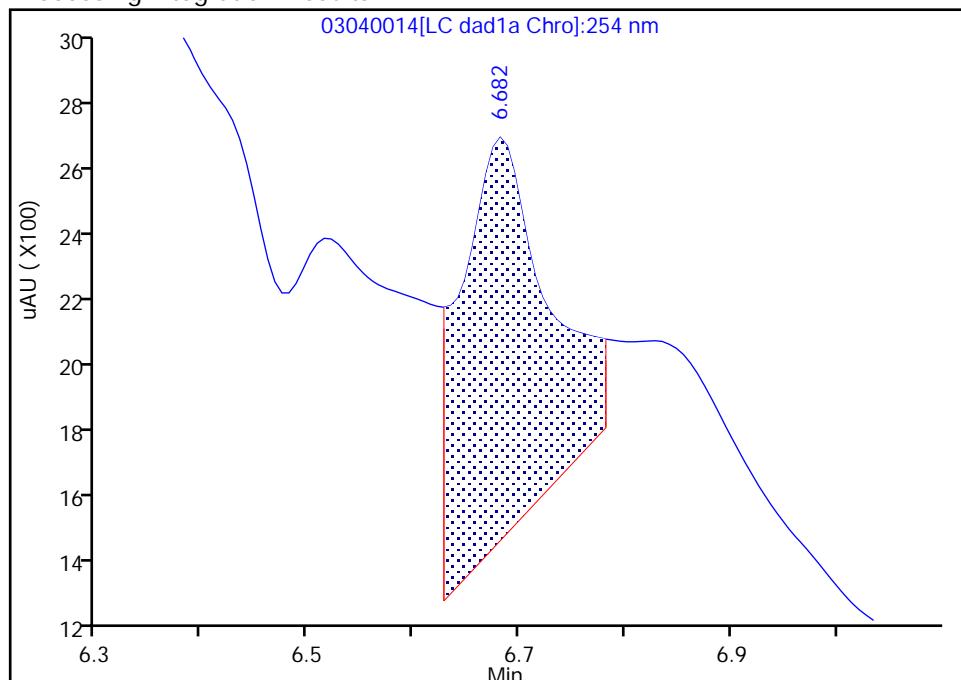
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040014.d
 Injection Date: 04-Mar-2020 16:47:48 Instrument ID: CHHPLC_X3
 Lims ID: IC MAIN L1
 Client ID:
 Operator ID: CB ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

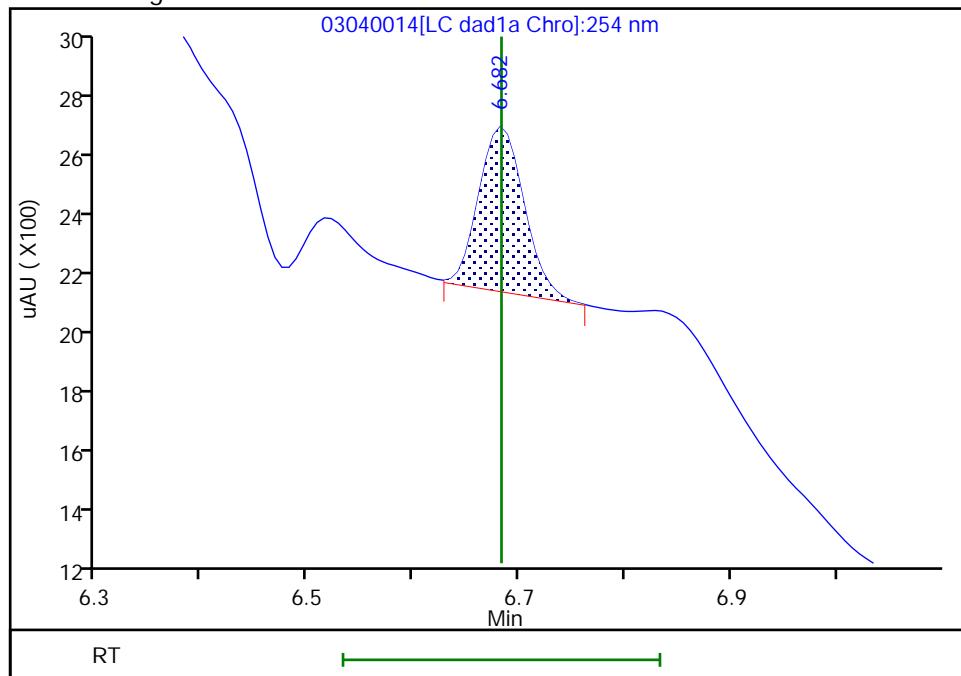
RT: 6.68
 Area: 6385
 Amount: 0.053394
 Amount Units: ug/mL

Processing Integration Results



RT: 6.68
 Area: 1520
 Amount: 0.017045
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 05-Mar-2020 08:23:15

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

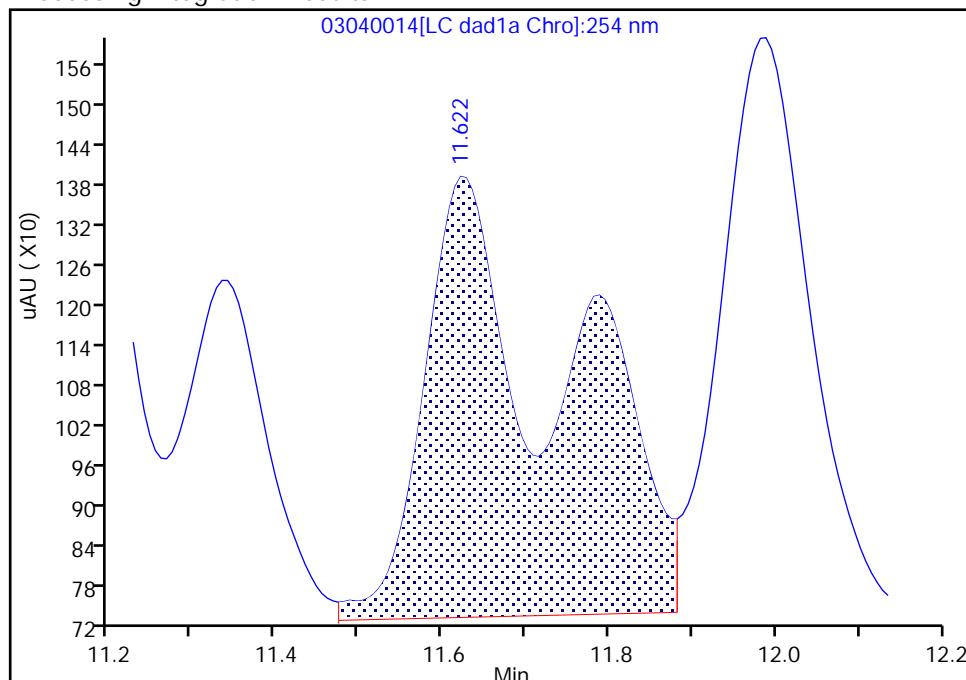
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040014.d
 Injection Date: 04-Mar-2020 16:47:48 Instrument ID: CHHPLC_X3
 Lims ID: IC MAIN L1
 Client ID:
 Operator ID: CB ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

18 2-Amino-4,6-dinitrotoluene, CAS: 35572-78-2

Signal: 1

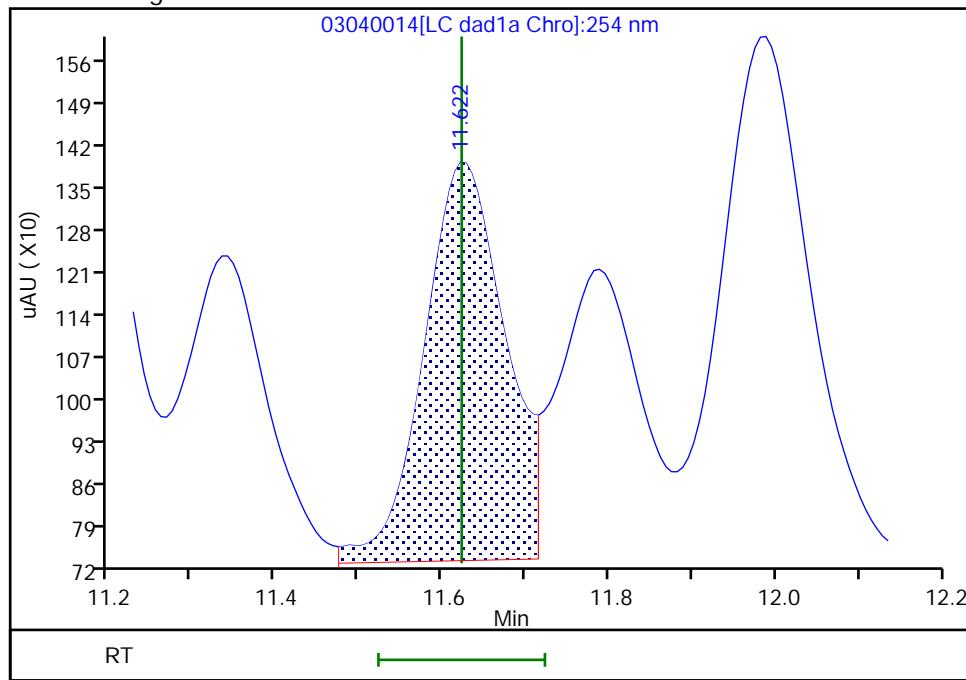
RT: 11.62
 Area: 7655
 Amount: 0.026996
 Amount Units: ug/mL

Processing Integration Results



RT: 11.62
 Area: 4452
 Amount: 0.020465
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 05-Mar-2020 08:23:29

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.: 280-134369-1 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.: 280-134369-1 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.: 280-134369-1 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

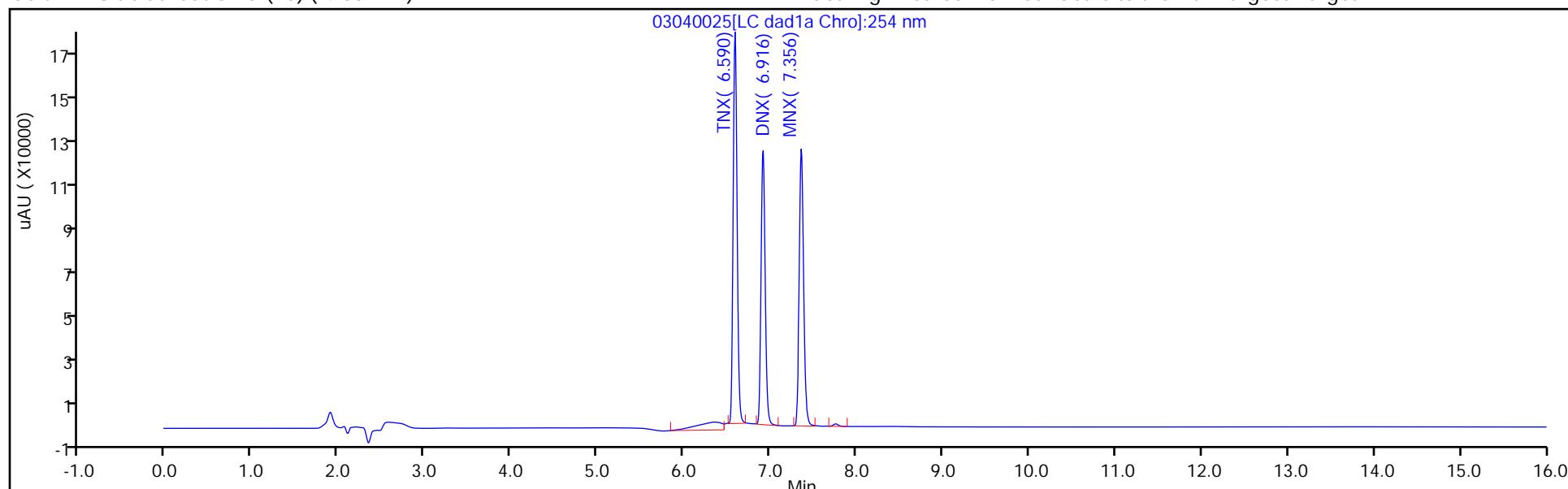
ALS Bottle#: 25

Method: 8330_X3

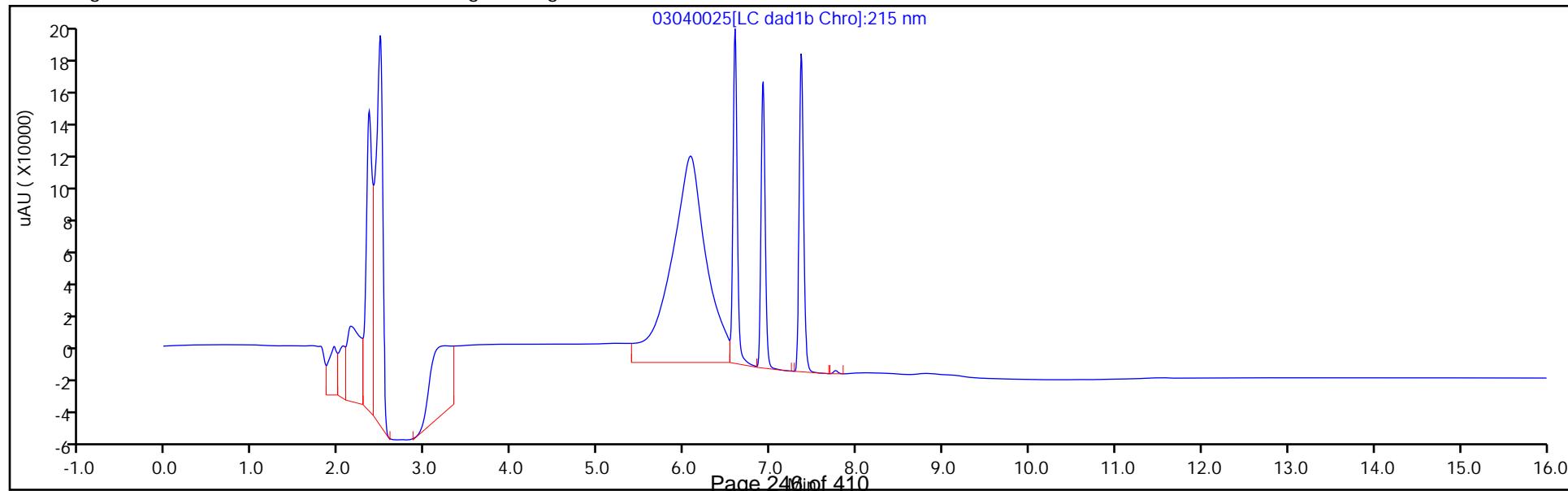
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

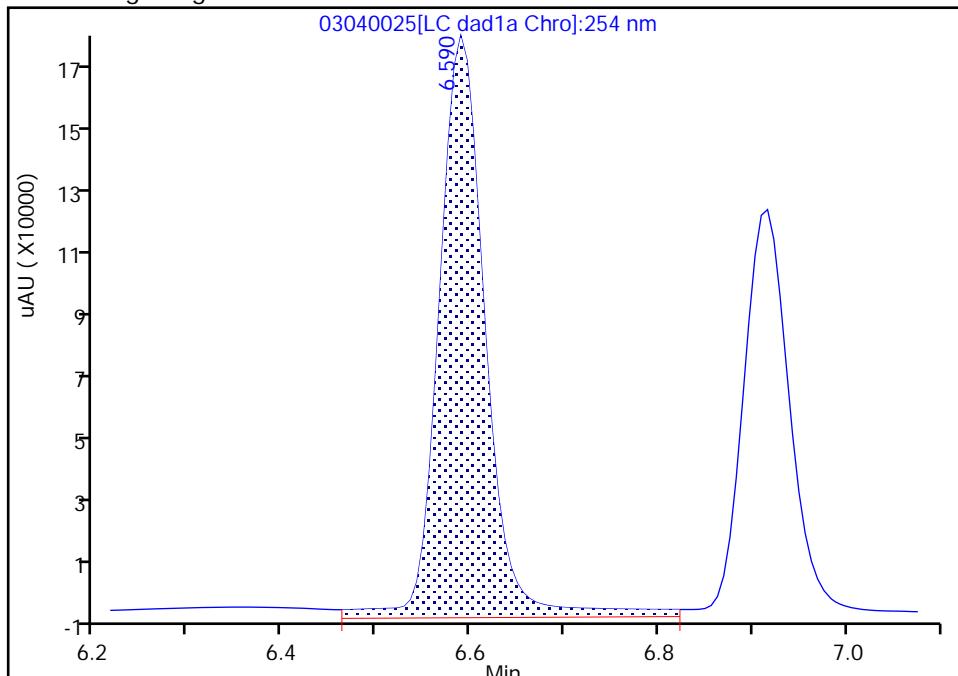
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040025.d
 Injection Date: 04-Mar-2020 21:00:00 Instrument ID: CHHPLC_X3
 Lims ID: IC DMT L8
 Client ID:
 Operator ID: CB ALS Bottle#: 25 Worklist Smp#: 25
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

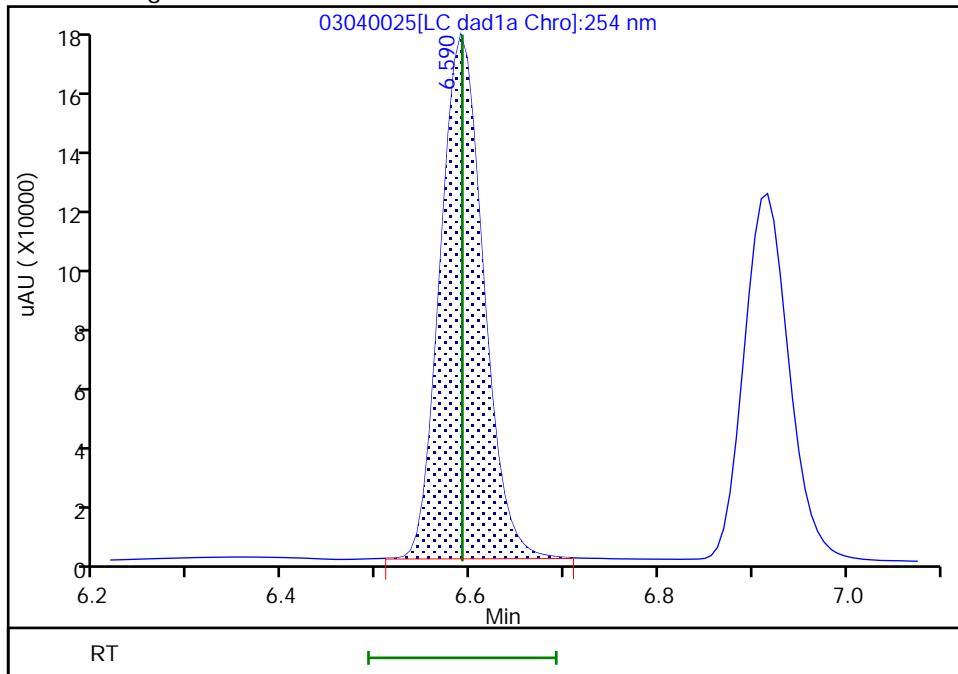
Processing Integration Results

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

Eurofins TestAmerica, Denver

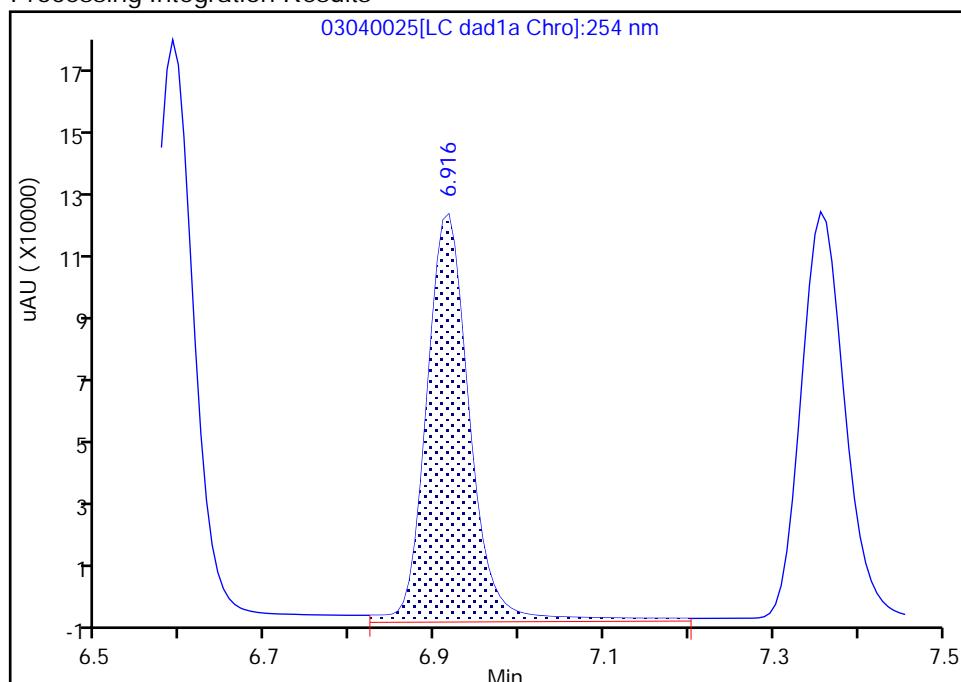
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040025.d
 Injection Date: 04-Mar-2020 21:00:00 Instrument ID: CHHPLC_X3
 Lims ID: IC DMT L8
 Client ID:
 Operator ID: CB ALS Bottle#: 25 Worklist Smp#: 25
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

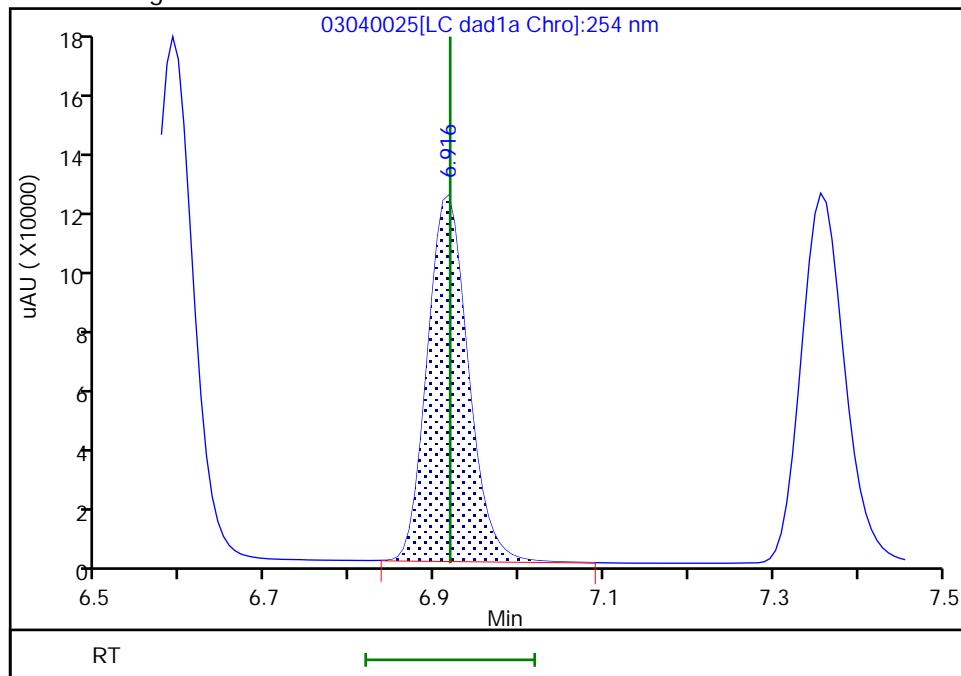
RT: 6.92
 Area: 445633
 Amount: 2.254277
 Amount Units: ug/mL

Processing Integration Results



RT: 6.92
 Area: 414714
 Amount: 2.711820
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 05-Mar-2020 08:29:52

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

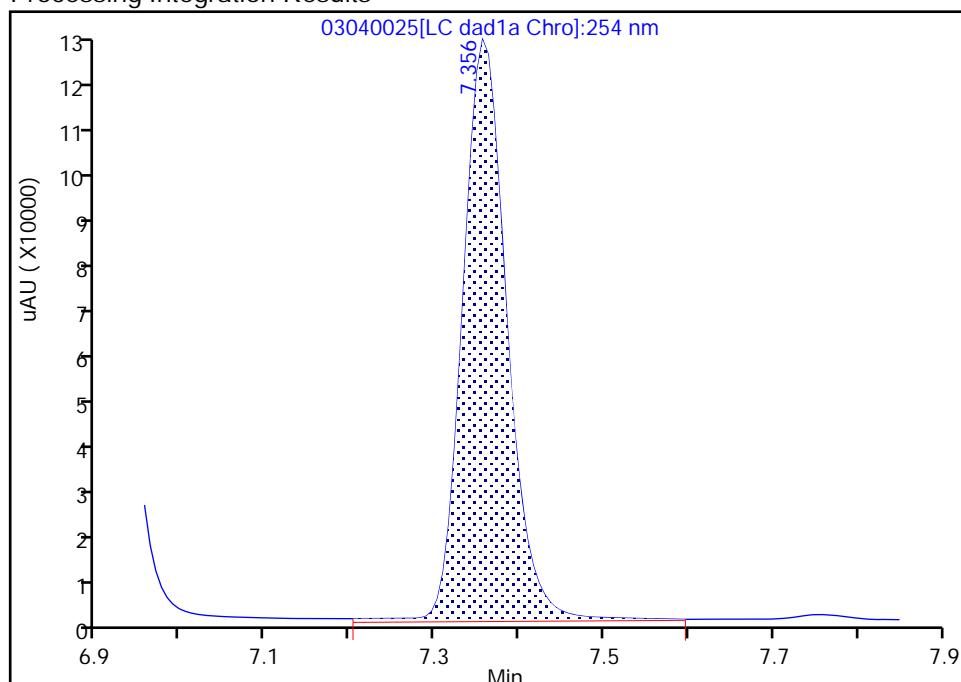
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040025.d
 Injection Date: 04-Mar-2020 21:00:00 Instrument ID: CHHPLC_X3
 Lims ID: IC DMT L8
 Client ID:
 Operator ID: CB ALS Bottle#: 25 Worklist Smp#: 25
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

6 MNX, CAS: 5755-27-1

Signal: 1

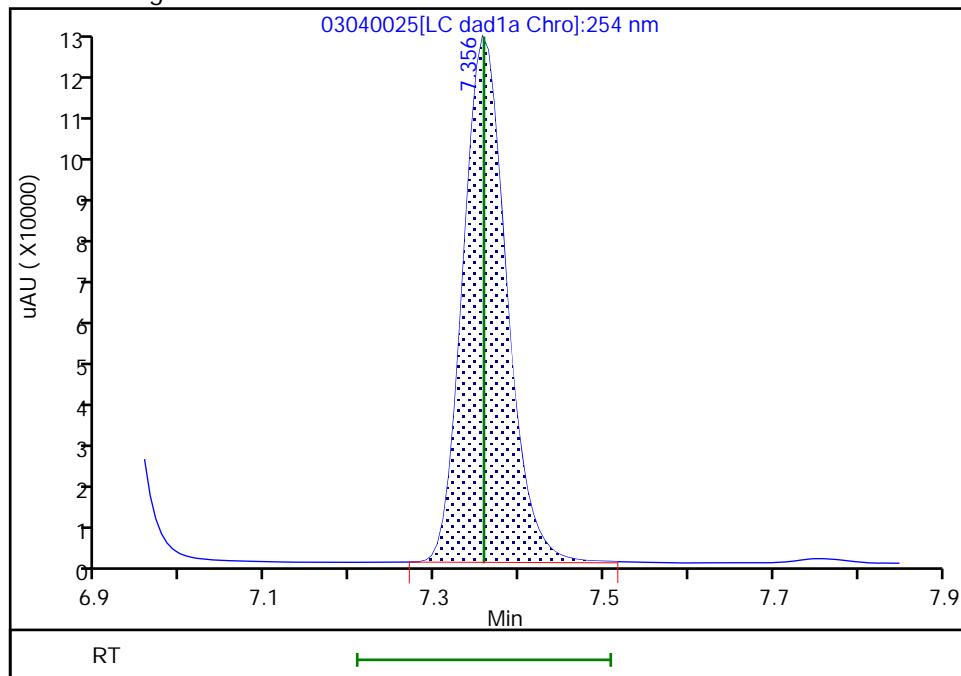
RT: 7.36
 Area: 461400
 Amount: 2.899748
 Amount Units: ug/mL

Processing Integration Results



RT: 7.36
 Area: 448024
 Amount: 2.825862
 Amount Units: ug/mL

Manual Integration Results



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

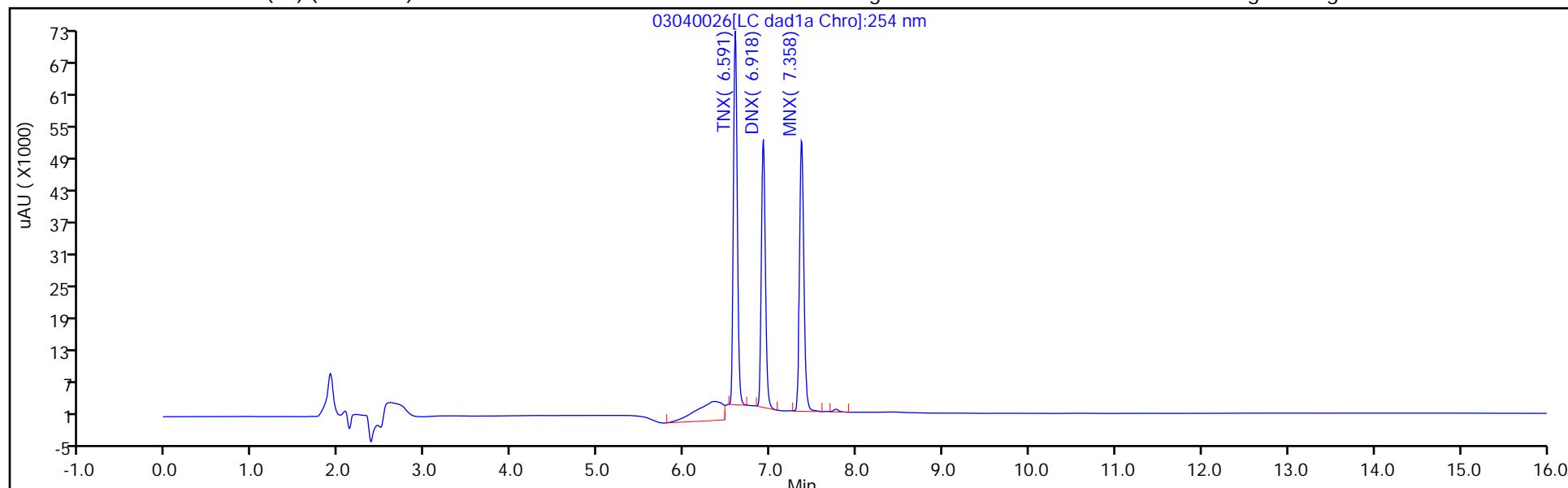
ALS Bottle#: 26

Method: 8330_X3

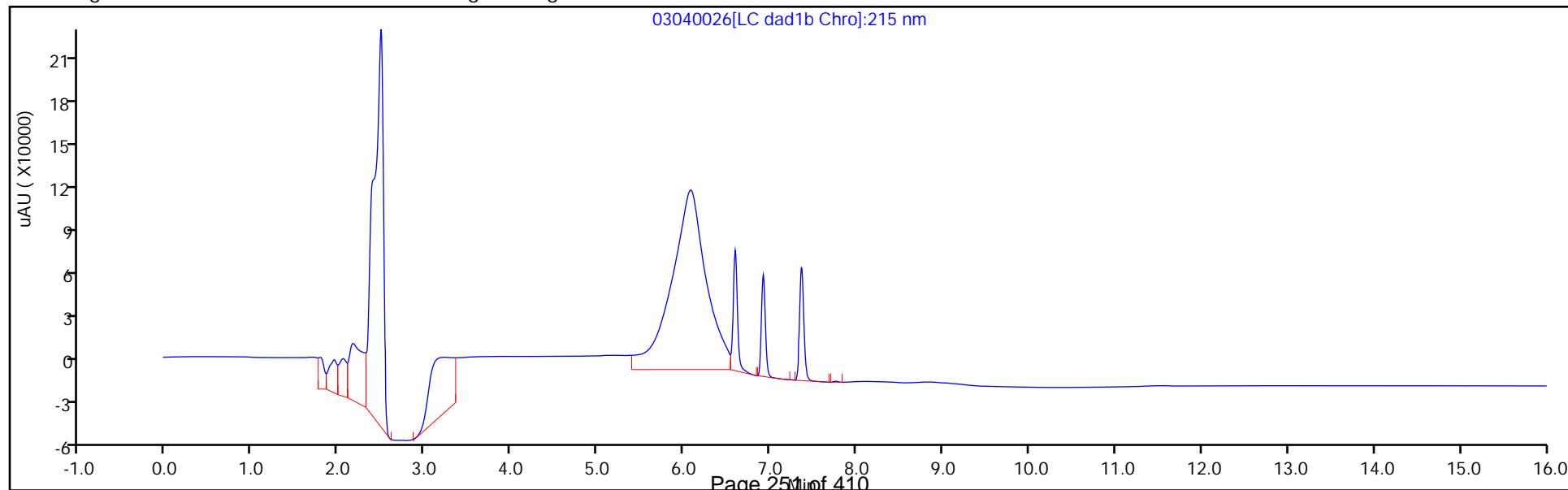
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

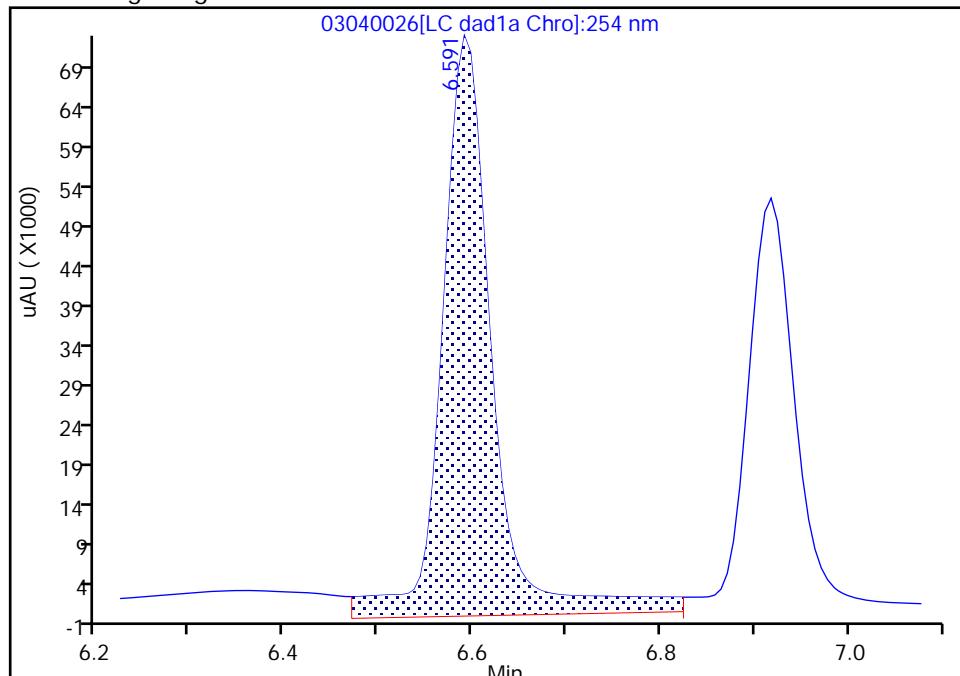
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040026.d
 Injection Date: 04-Mar-2020 21:23:03 Instrument ID: CHHPLC_X3
 Lims ID: IC DMT L7
 Client ID:
 Operator ID: CB ALS Bottle#: 26 Worklist Smp#: 26
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

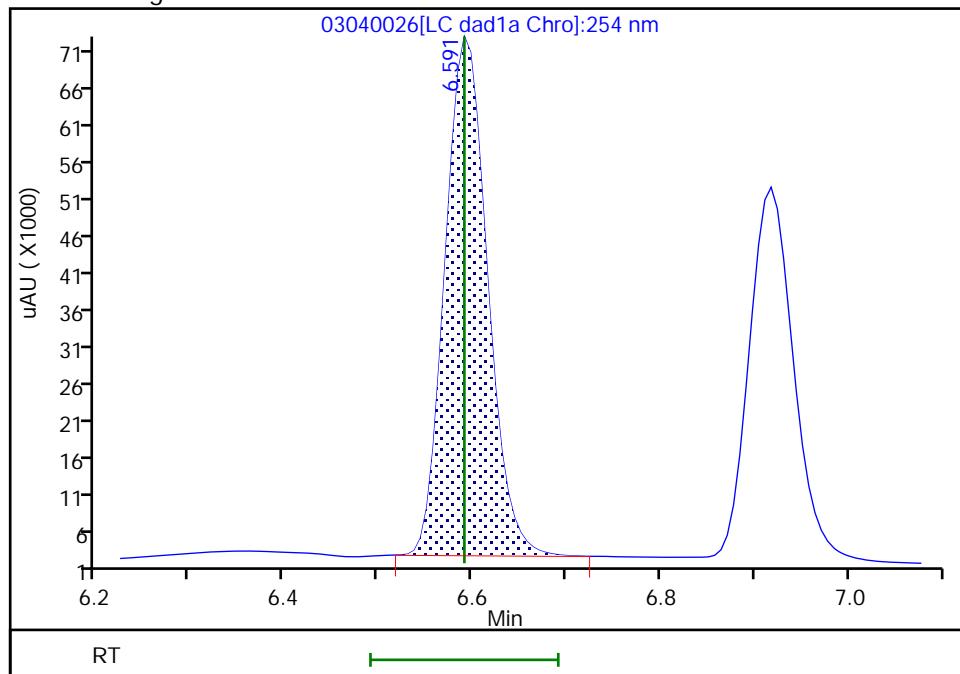
Processing Integration Results

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

Eurofins TestAmerica, Denver

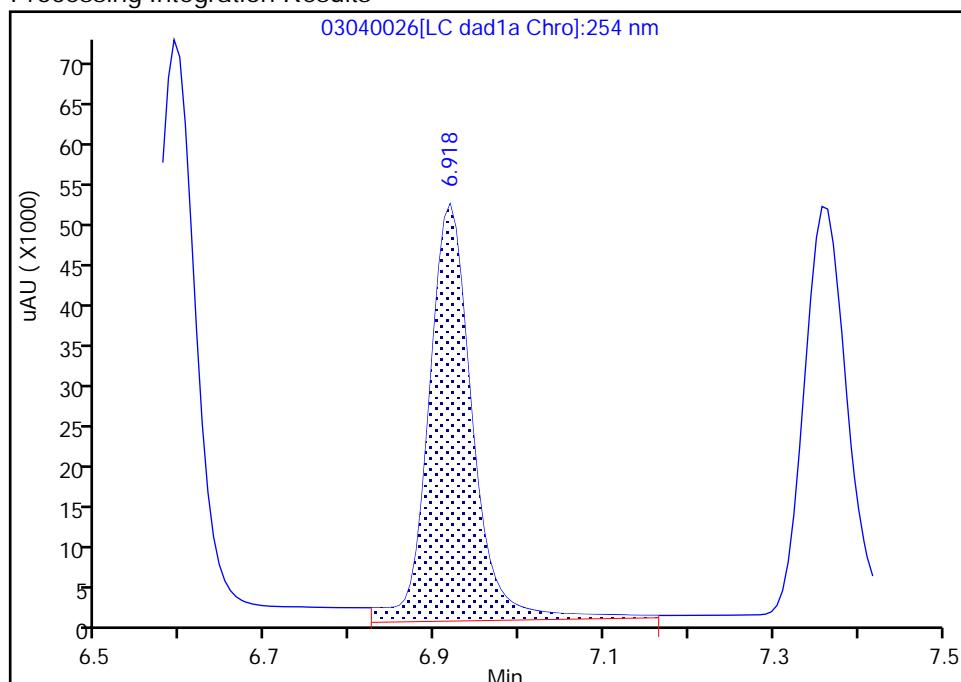
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040026.d
 Injection Date: 04-Mar-2020 21:23:03 Instrument ID: CHHPLC_X3
 Lims ID: IC DMT L7
 Client ID:
 Operator ID: CB ALS Bottle#: 26 Worklist Smp#: 26
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

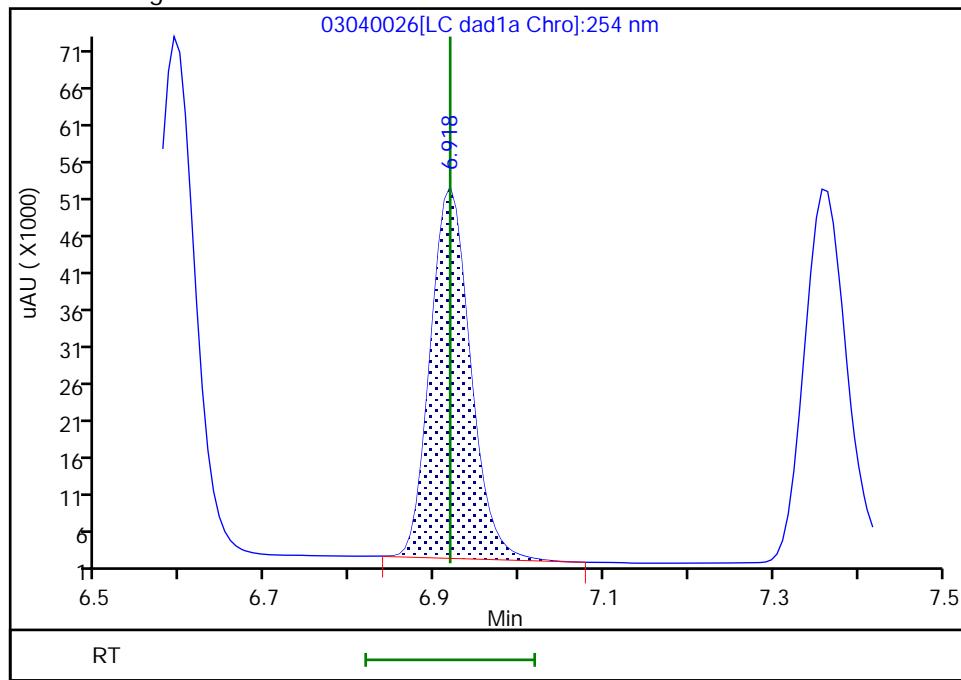
RT: 6.92
 Area: 184230
 Amount: 0.939283
 Amount Units: ug/mL

Processing Integration Results



RT: 6.92
 Area: 164161
 Amount: 1.073451
 Amount Units: ug/mL

Manual Integration Results



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

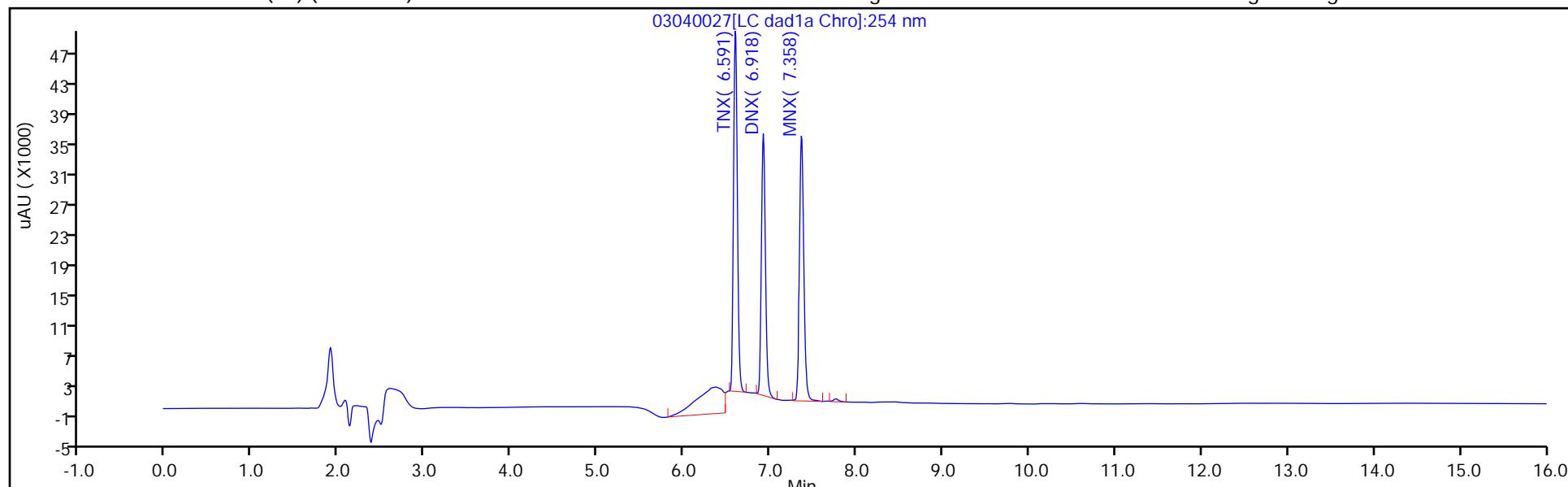
ALS Bottle#: 27

Method: 8330_X3

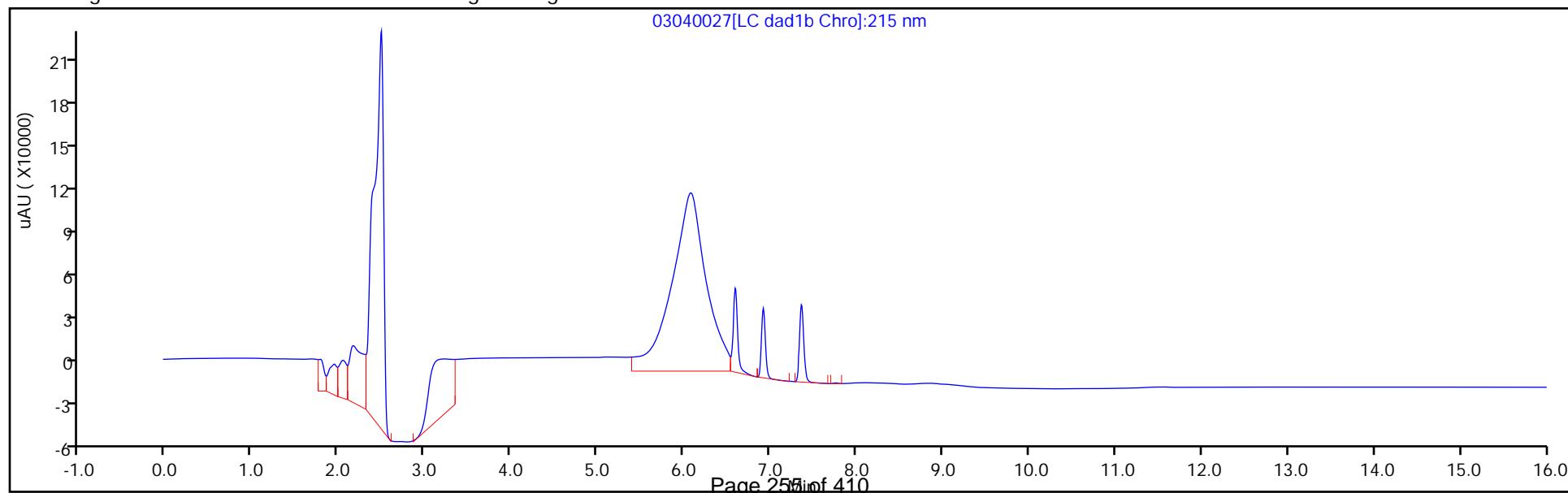
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

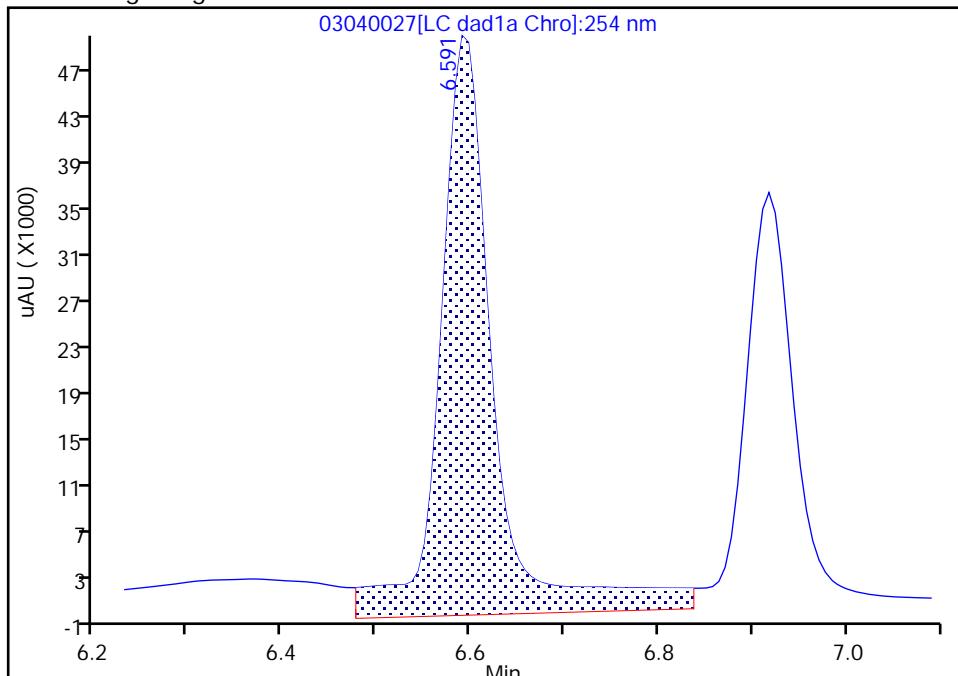
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040027.d
 Injection Date: 04-Mar-2020 21:45:58 Instrument ID: CHHPLC_X3
 Lims ID: IC DMT L6
 Client ID:
 Operator ID: CB ALS Bottle#: 27 Worklist Smp#: 27
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

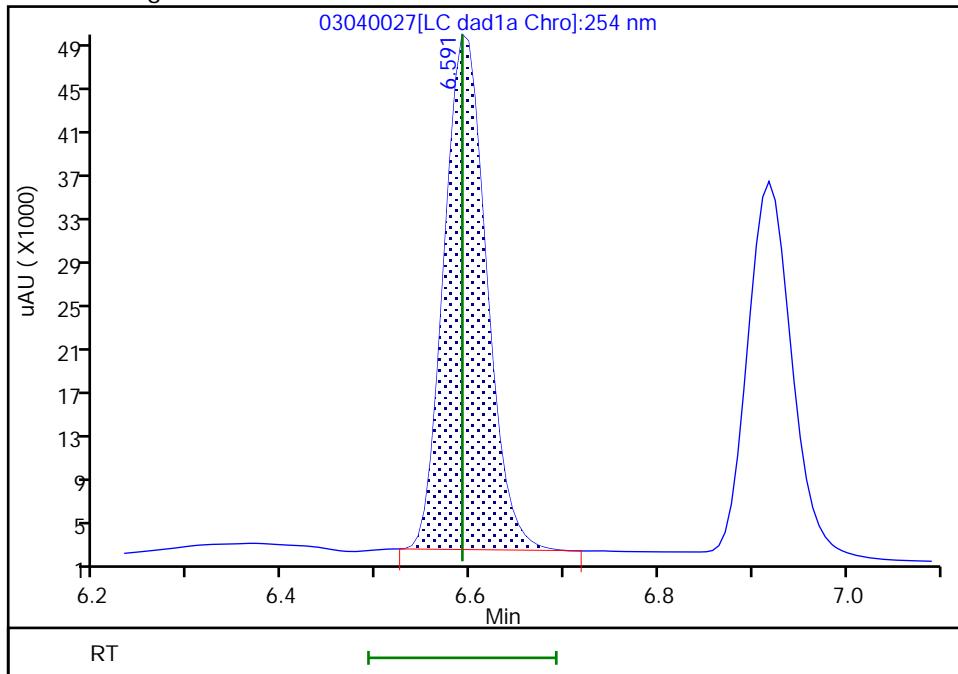
Processing Integration Results

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

Eurofins TestAmerica, Denver

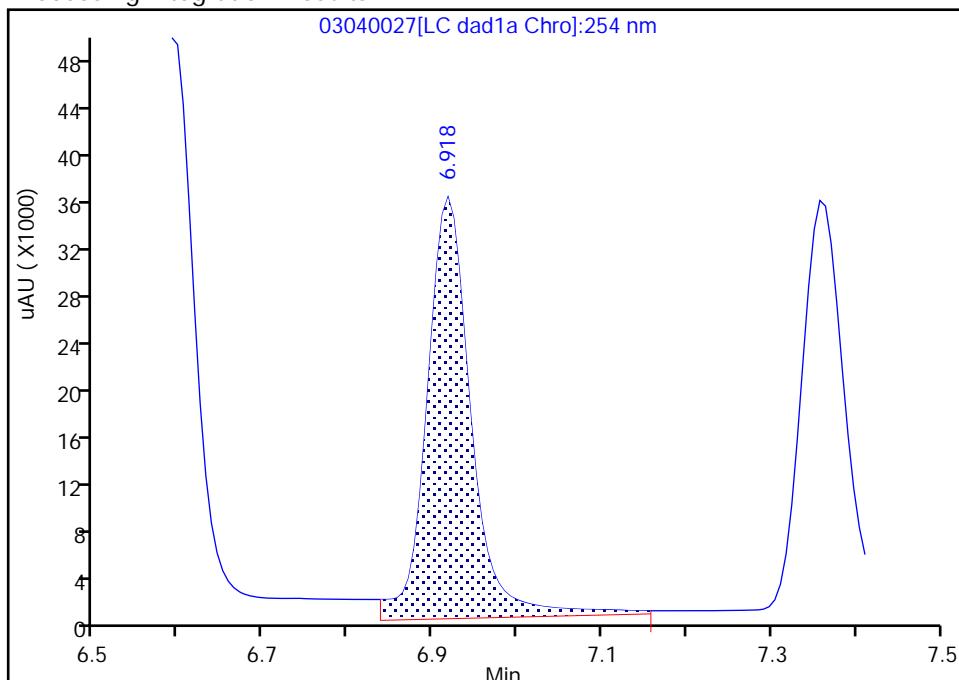
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040027.d
 Injection Date: 04-Mar-2020 21:45:58 Instrument ID: CHHPLC_X3
 Lims ID: IC DMT L6
 Client ID:
 Operator ID: CB ALS Bottle#: 27 Worklist Smp#: 27
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

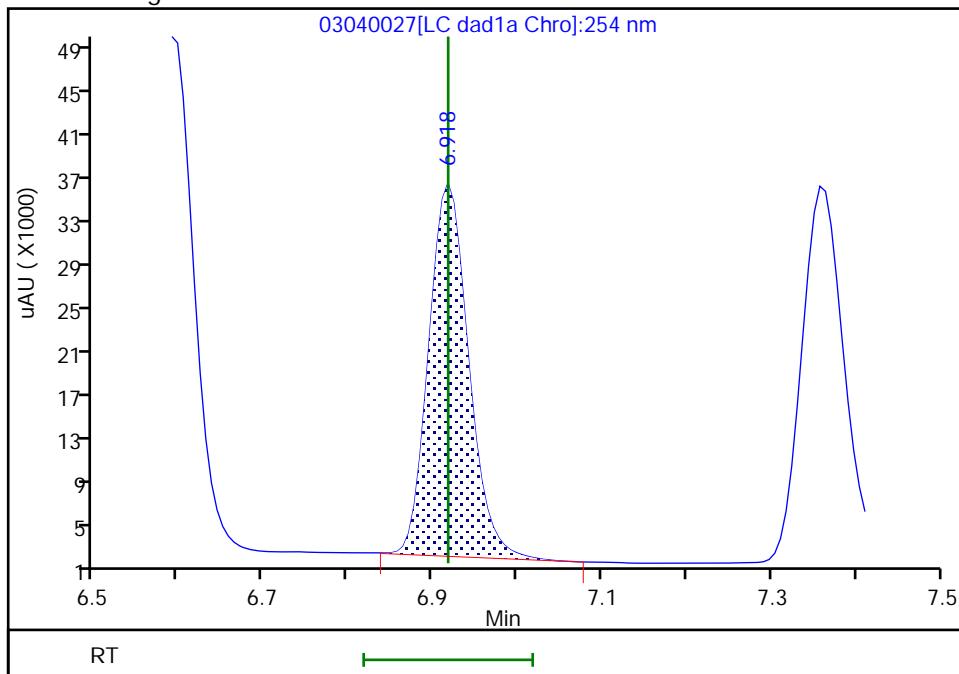
Processing Integration Results

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

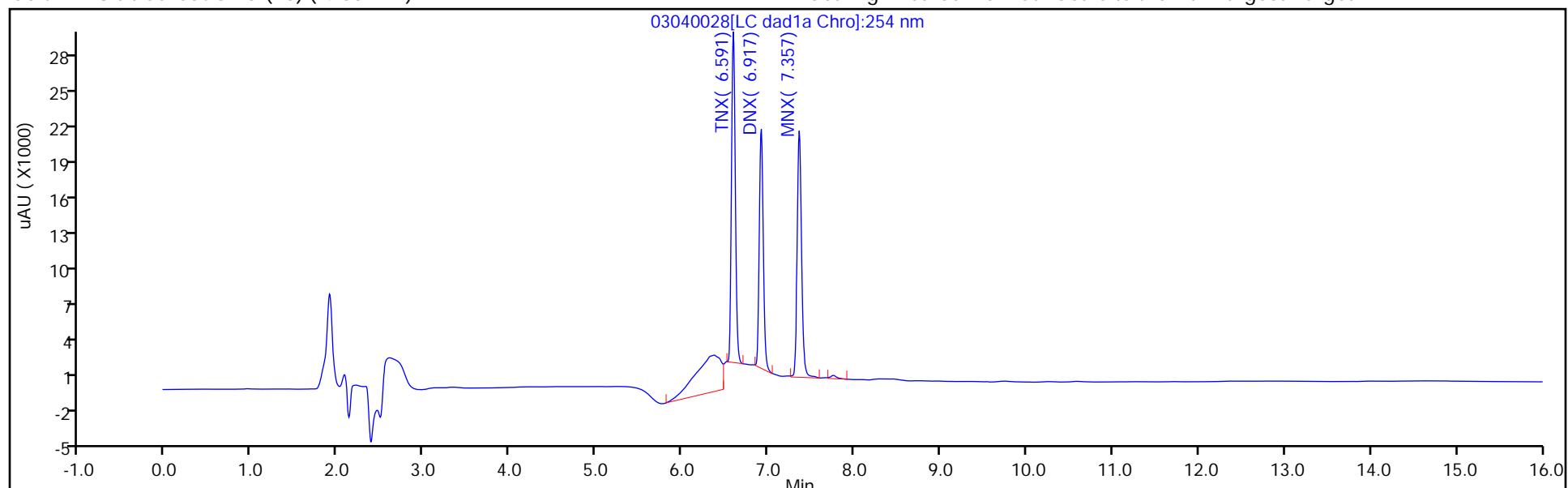
ALS Bottle#: 28

Method: 8330_X3

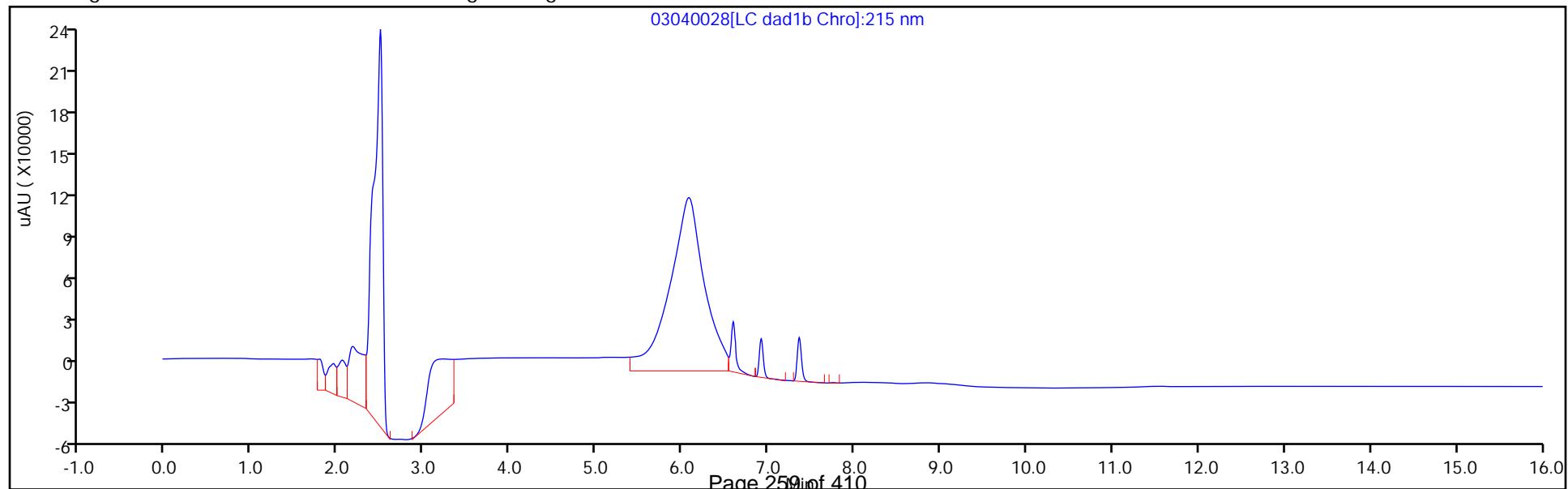
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

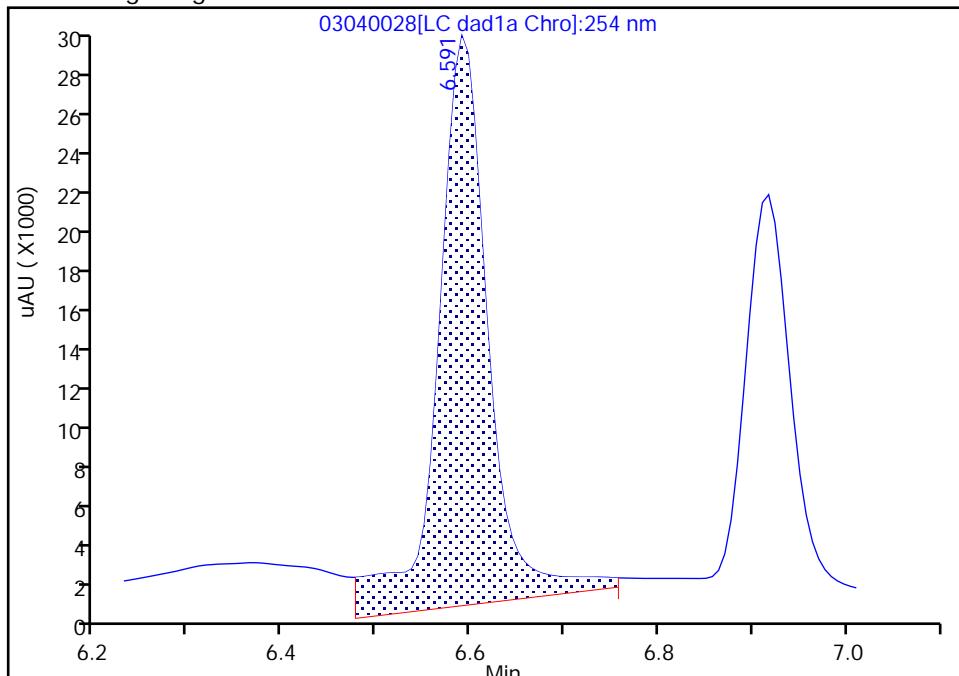
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040028.d
 Injection Date: 04-Mar-2020 22:09:00 Instrument ID: CHHPLC_X3
 Lims ID: IC DMT L5
 Client ID:
 Operator ID: CB ALS Bottle#: 28 Worklist Smp#: 28
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

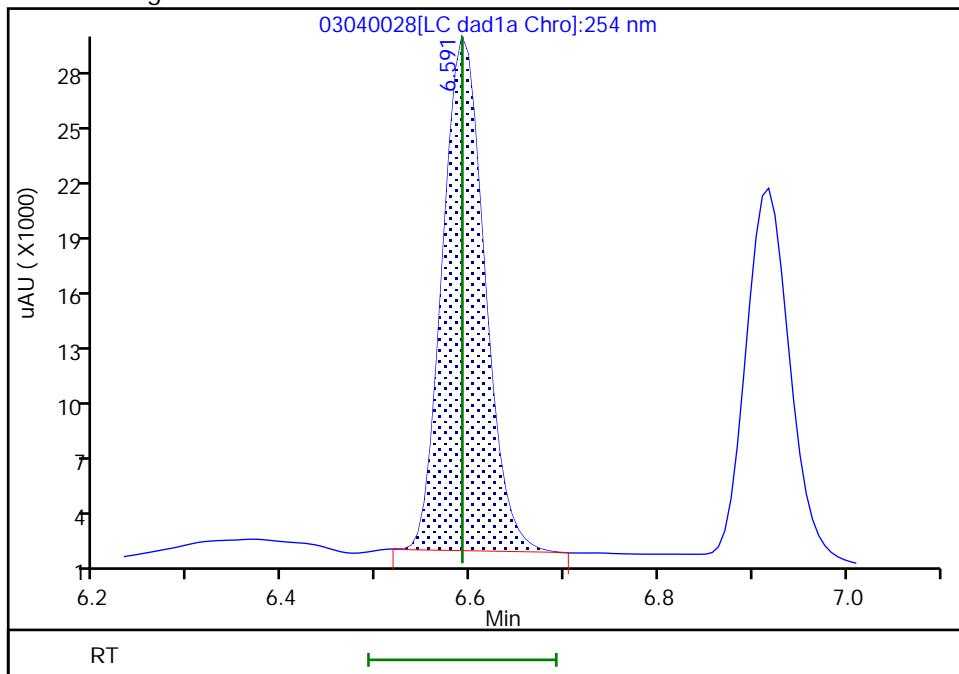
Processing Integration Results

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

Eurofins TestAmerica, Denver

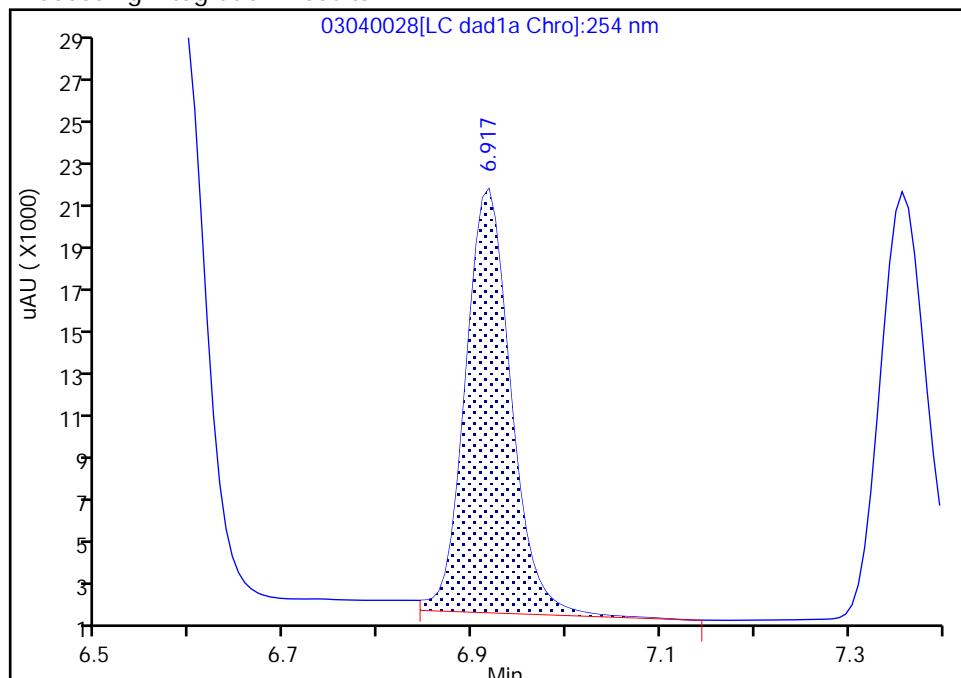
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040028.d
 Injection Date: 04-Mar-2020 22:09:00 Instrument ID: CHHPLC_X3
 Lims ID: IC DMT L5
 Client ID:
 Operator ID: CB ALS Bottle#: 28 Worklist Smp#: 28
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

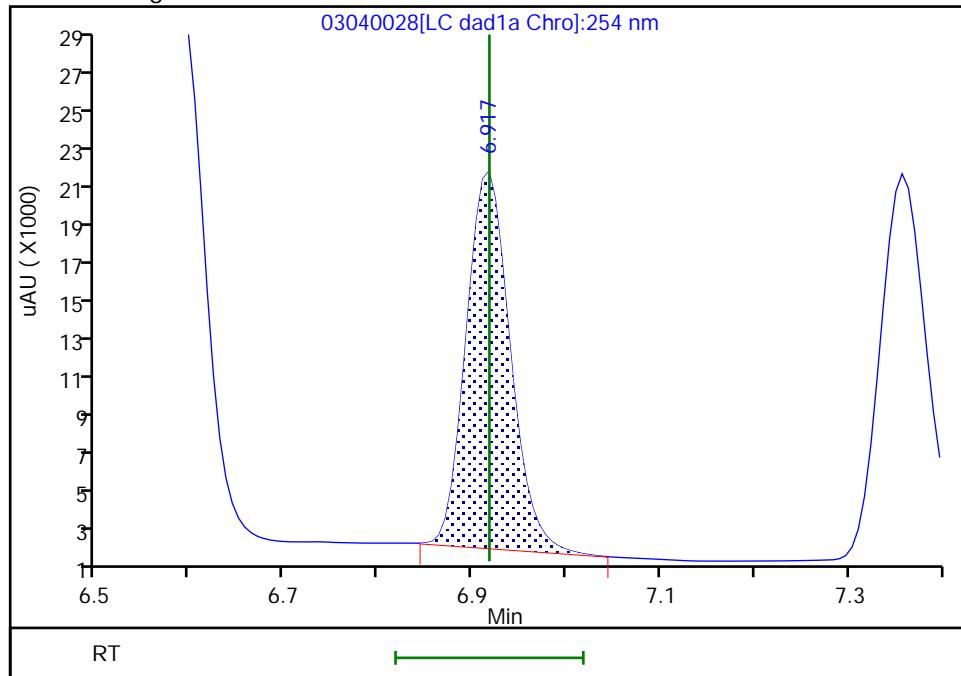
RT: 6.92
 Area: 67686
 Amount: 0.396160
 Amount Units: ug/mL

Processing Integration Results



RT: 6.92
 Area: 64550
 Amount: 0.422093
 Amount Units: ug/mL

Manual Integration Results



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

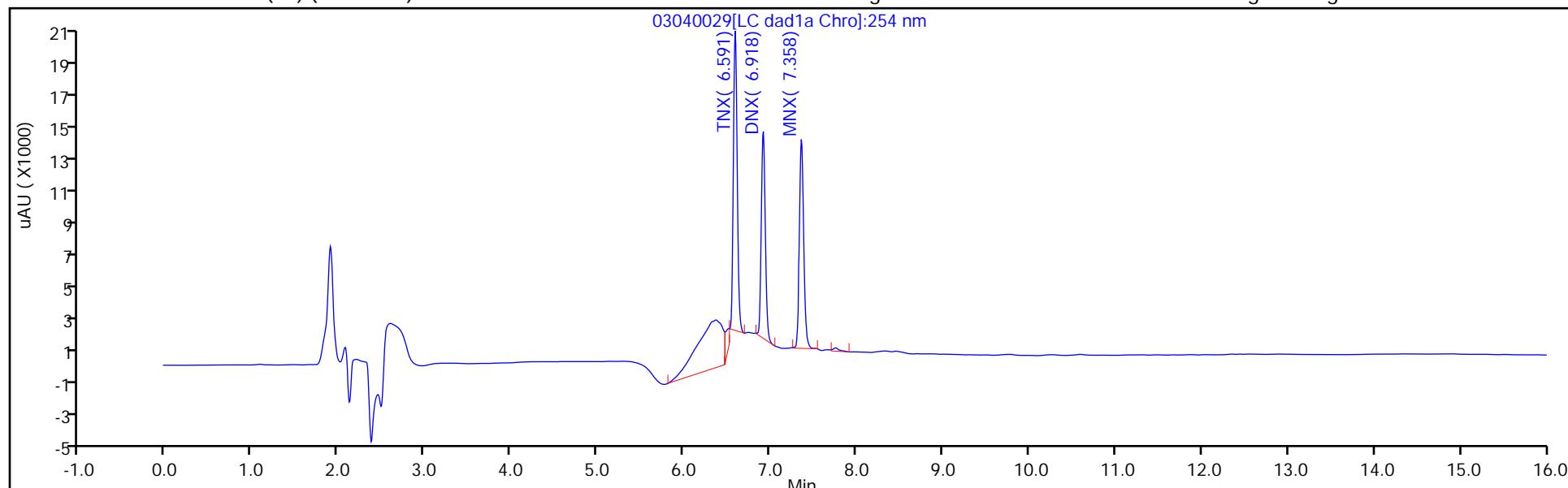
ALS Bottle#: 29

Method: 8330_X3

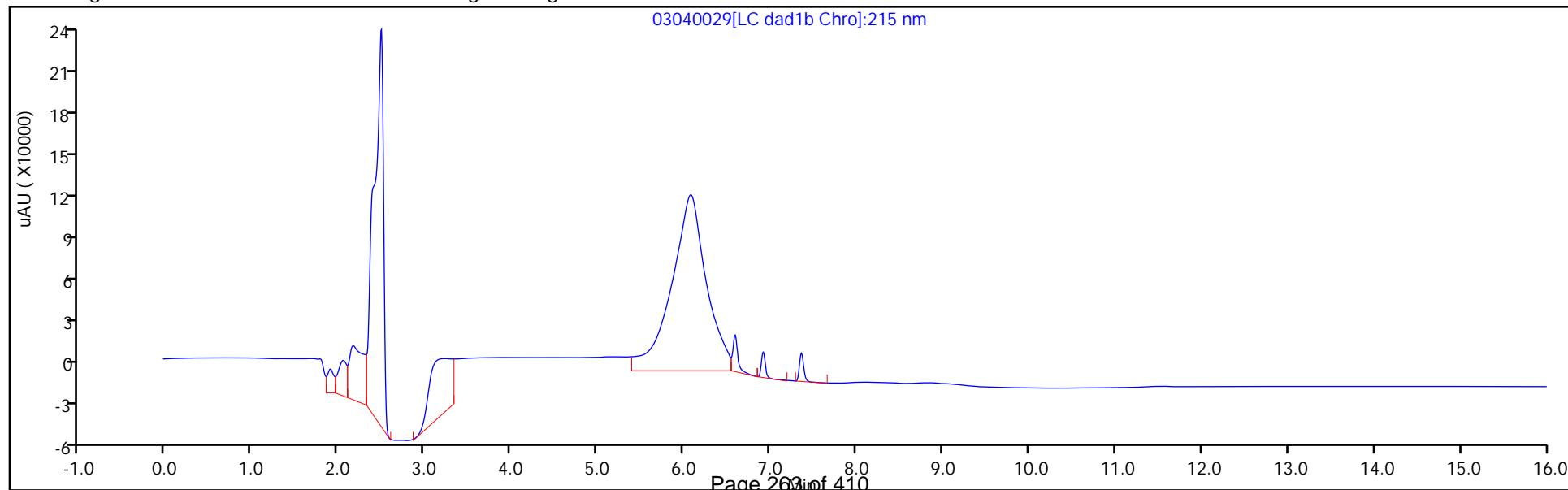
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

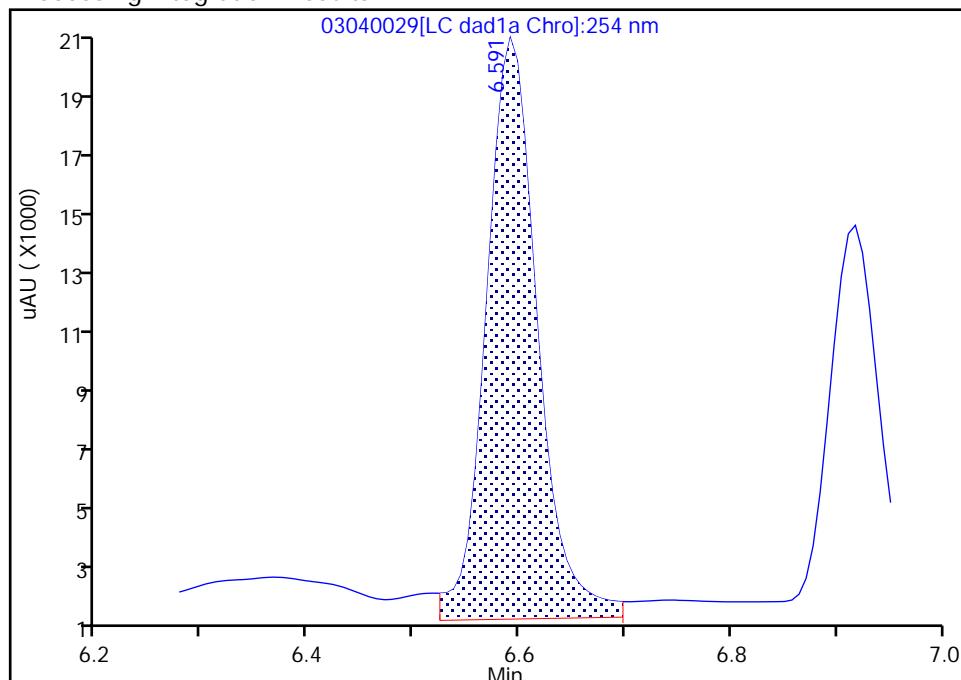
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040029.d
 Injection Date: 04-Mar-2020 22:31:57 Instrument ID: CHHPLC_X3
 Lims ID: IC DMT L4
 Client ID:
 Operator ID: CB ALS Bottle#: 29 Worklist Smp#: 29
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

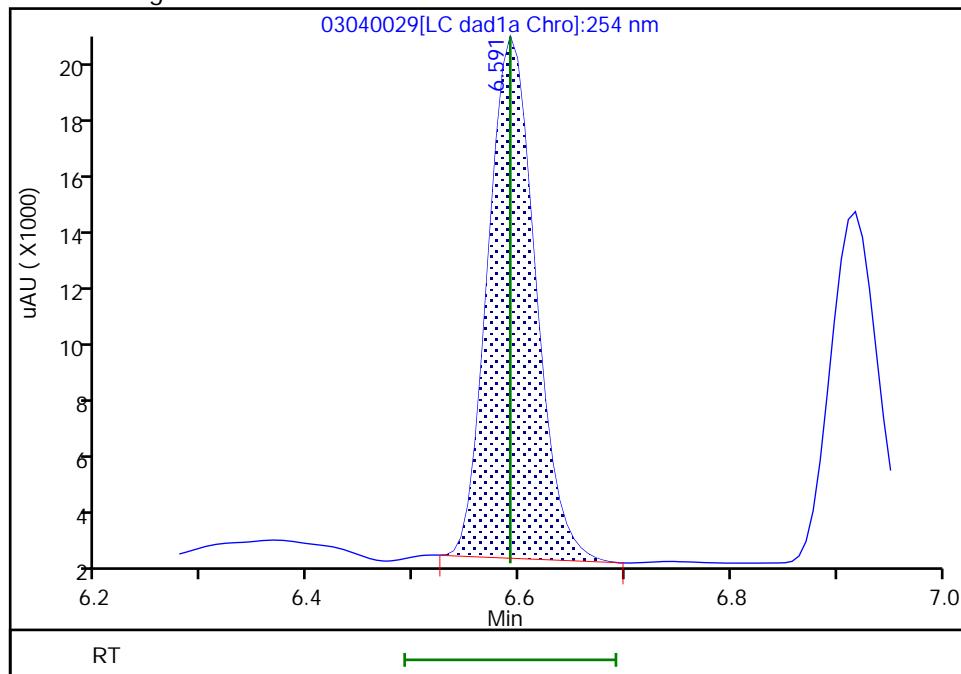
RT: 6.59
 Area: 65279
 Amount: 0.274722
 Amount Units: ug/mL

Processing Integration Results



RT: 6.59
 Area: 57932
 Amount: 0.266221
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 05-Mar-2020 08:31:35

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

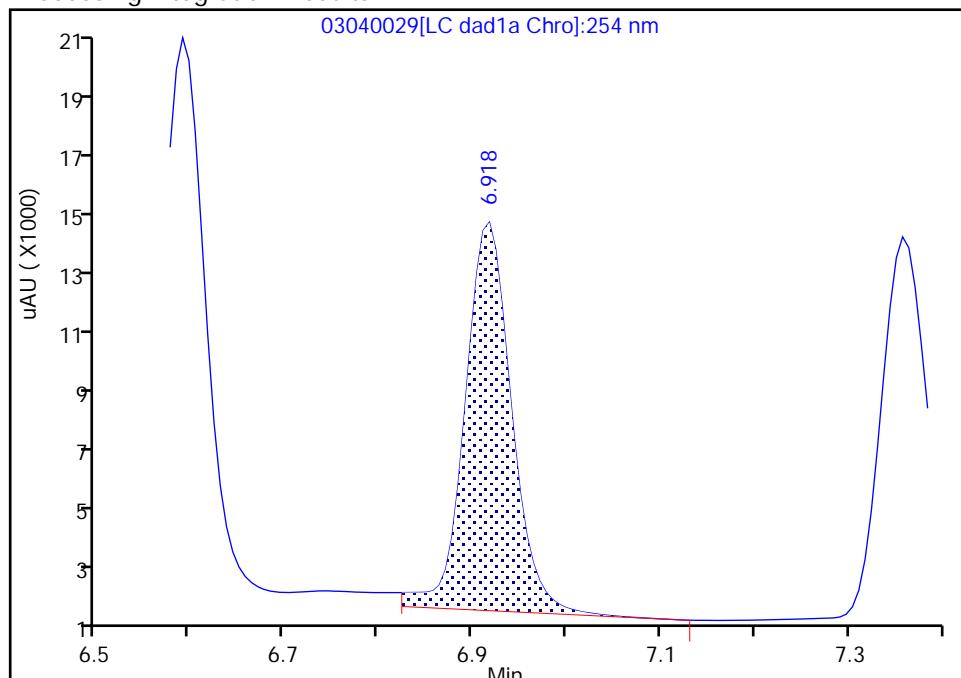
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040029.d
 Injection Date: 04-Mar-2020 22:31:57 Instrument ID: CHHPLC_X3
 Lims ID: IC DMT L4
 Client ID:
 Operator ID: CB ALS Bottle#: 29 Worklist Smp#: 29
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

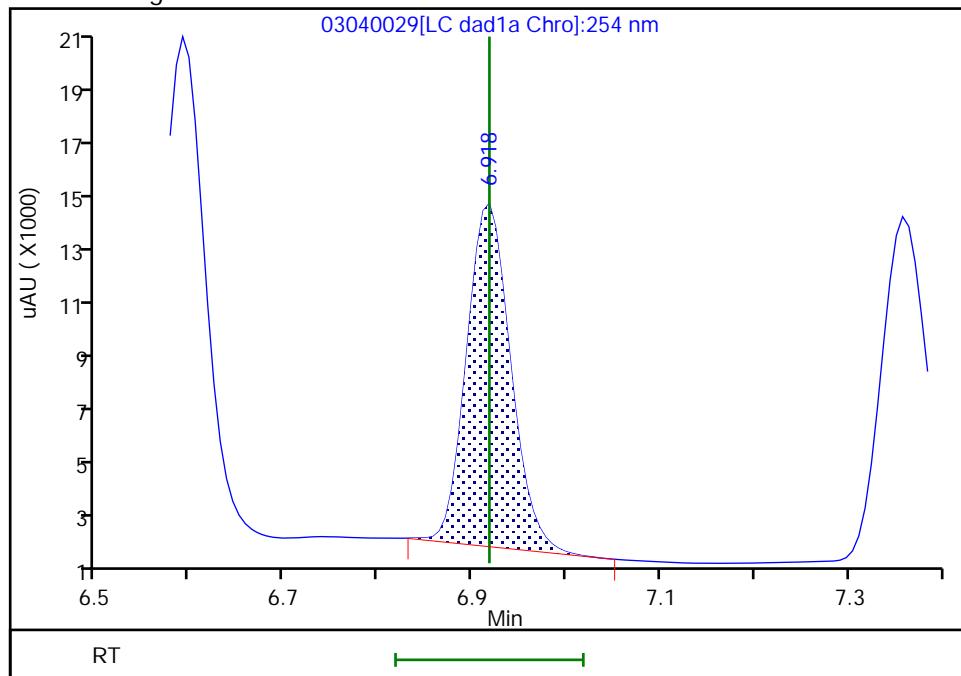
RT: 6.92
 Area: 45380
 Amount: 0.263025
 Amount Units: ug/mL

Processing Integration Results



RT: 6.92
 Area: 41936
 Amount: 0.274220
 Amount Units: ug/mL

Manual Integration Results



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

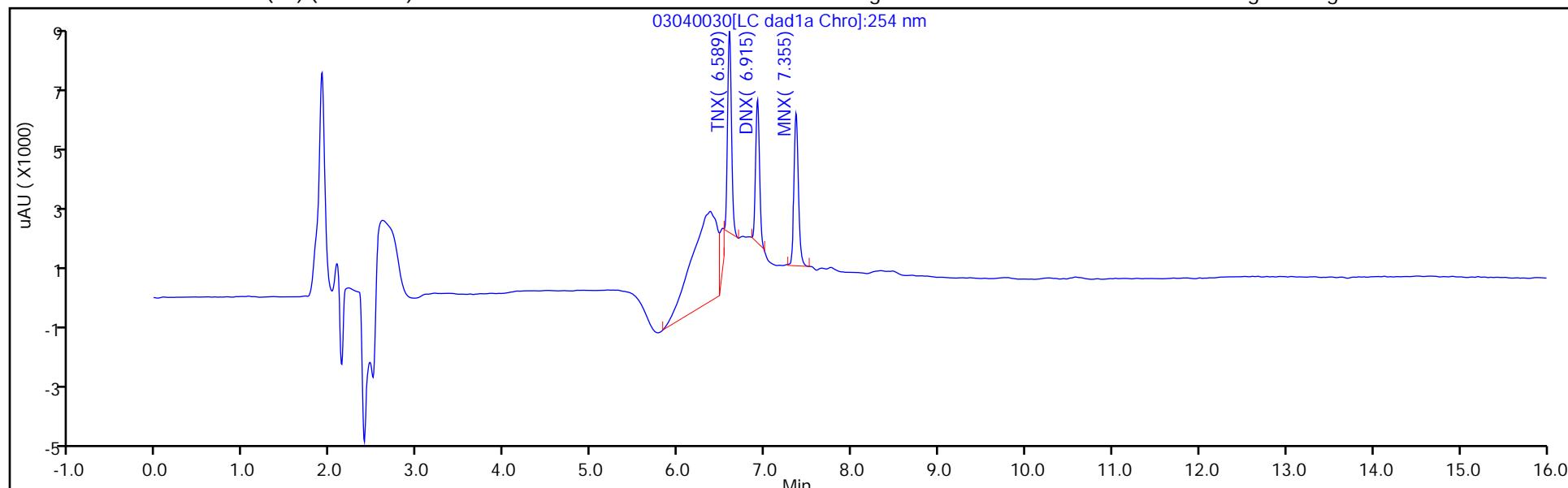
ALS Bottle#: 30

Method: 8330_X3

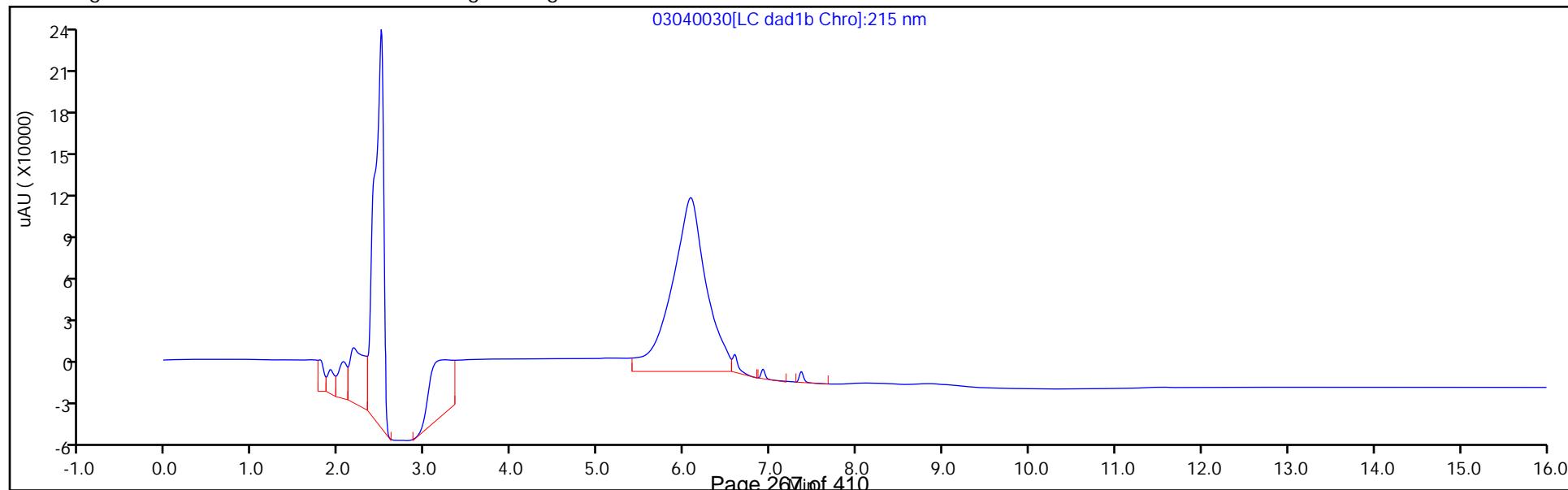
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

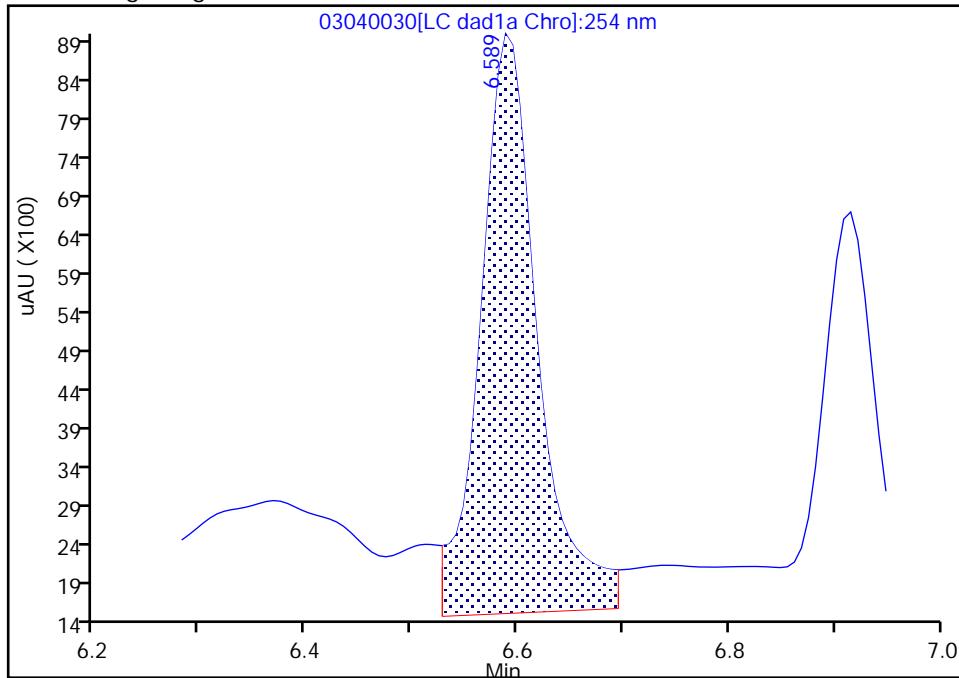
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040030.d
 Injection Date: 04-Mar-2020 22:54:53 Instrument ID: CHHPLC_X3
 Lims ID: IC DMT L3
 Client ID:
 Operator ID: CB ALS Bottle#: 30 Worklist Smp#: 30
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

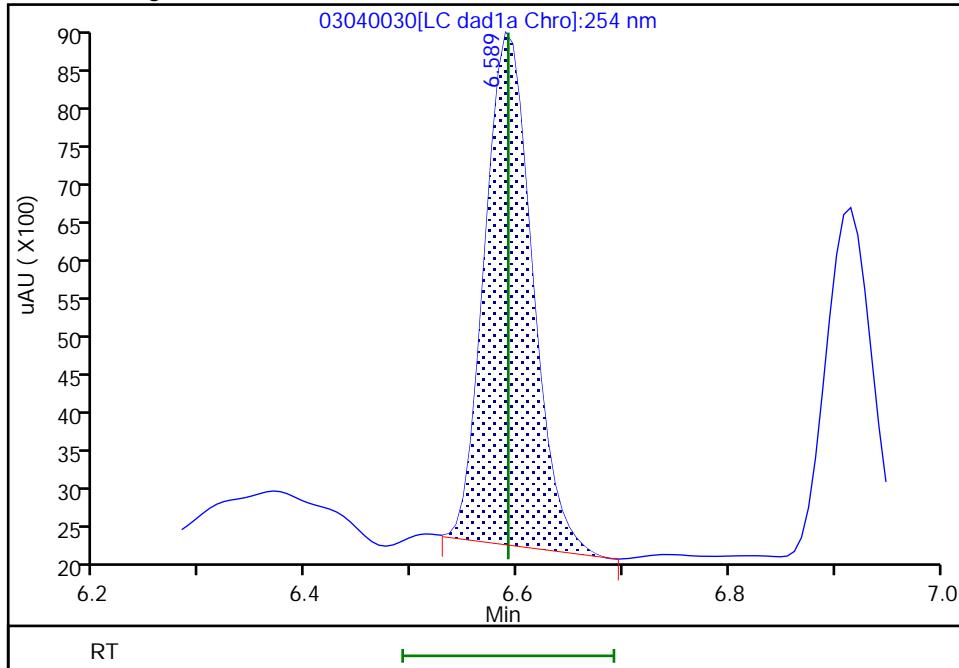
Processing Integration Results

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

Eurofins TestAmerica, Denver

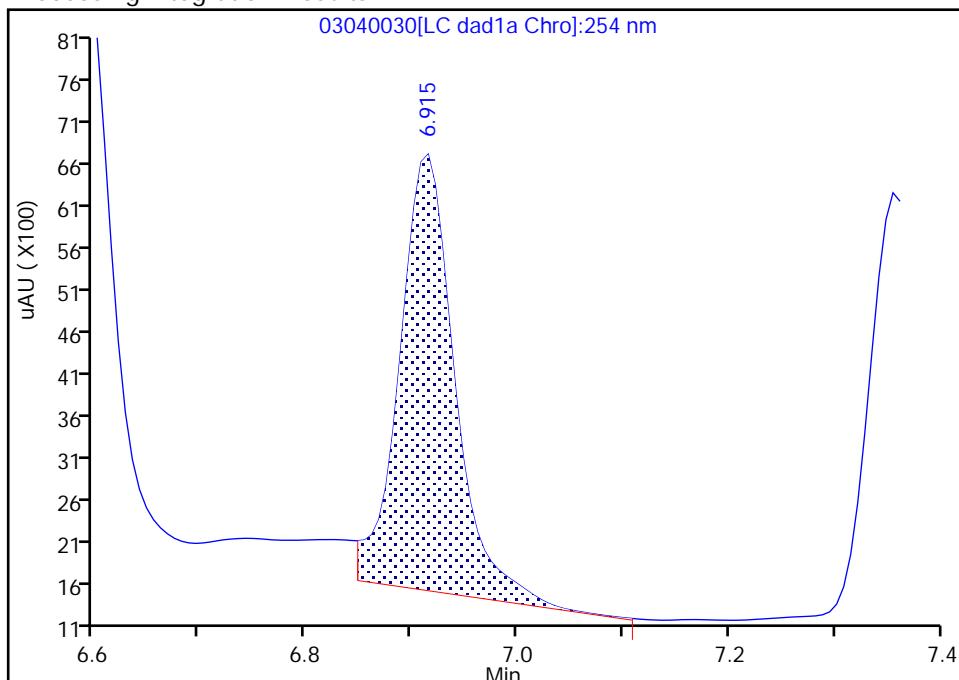
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040030.d
 Injection Date: 04-Mar-2020 22:54:53 Instrument ID: CHHPLC_X3
 Lims ID: IC DMT L3
 Client ID:
 Operator ID: CB ALS Bottle#: 30 Worklist Smp#: 30
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

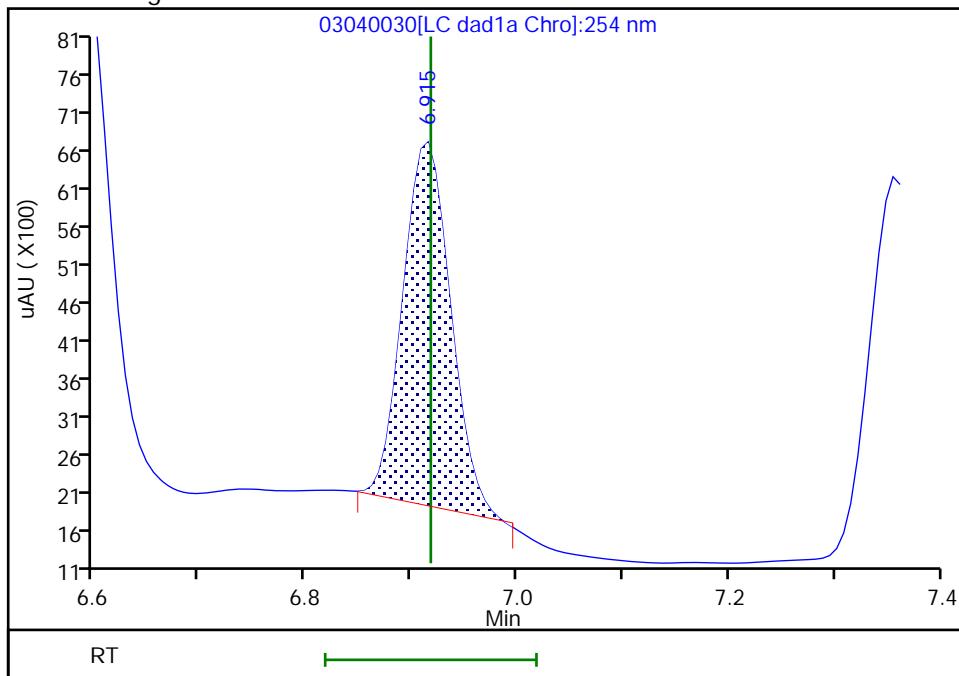
Processing Integration Results

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

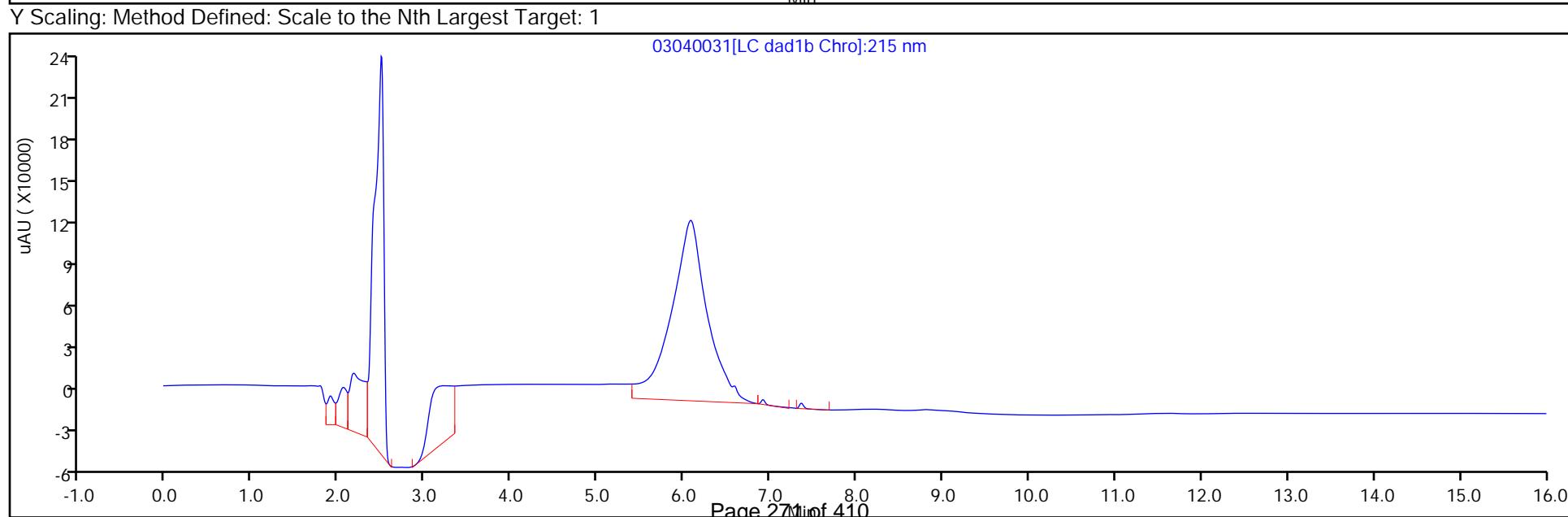
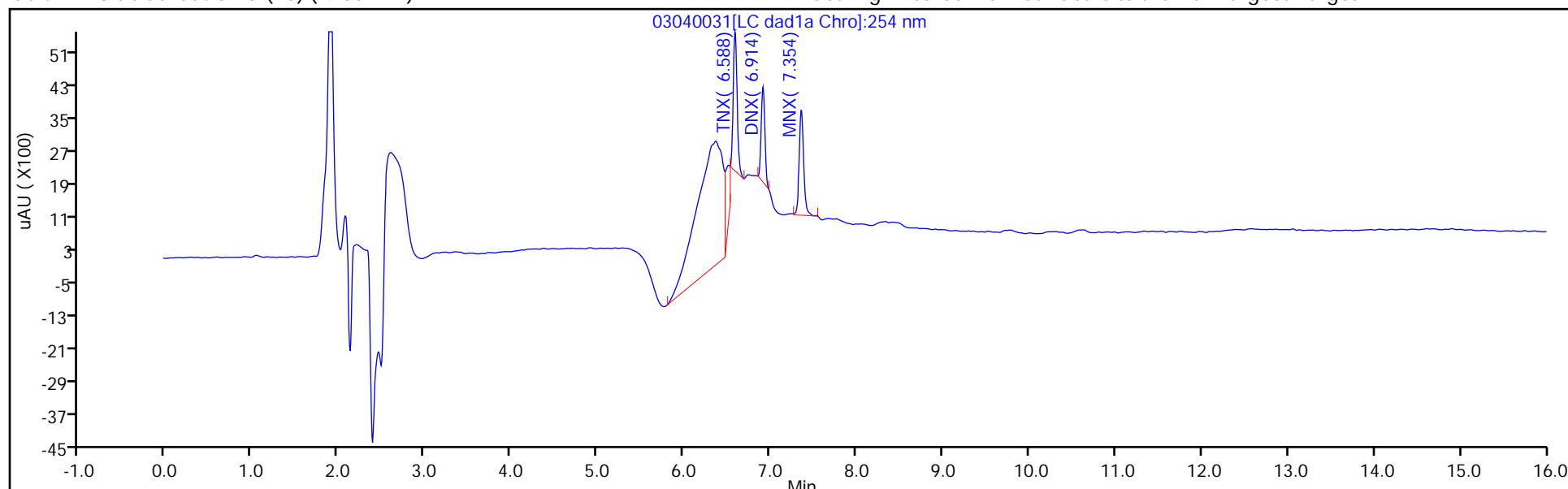
ALS Bottle#: 31

Method: 8330_X3

Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

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



Eurofins TestAmerica, Denver

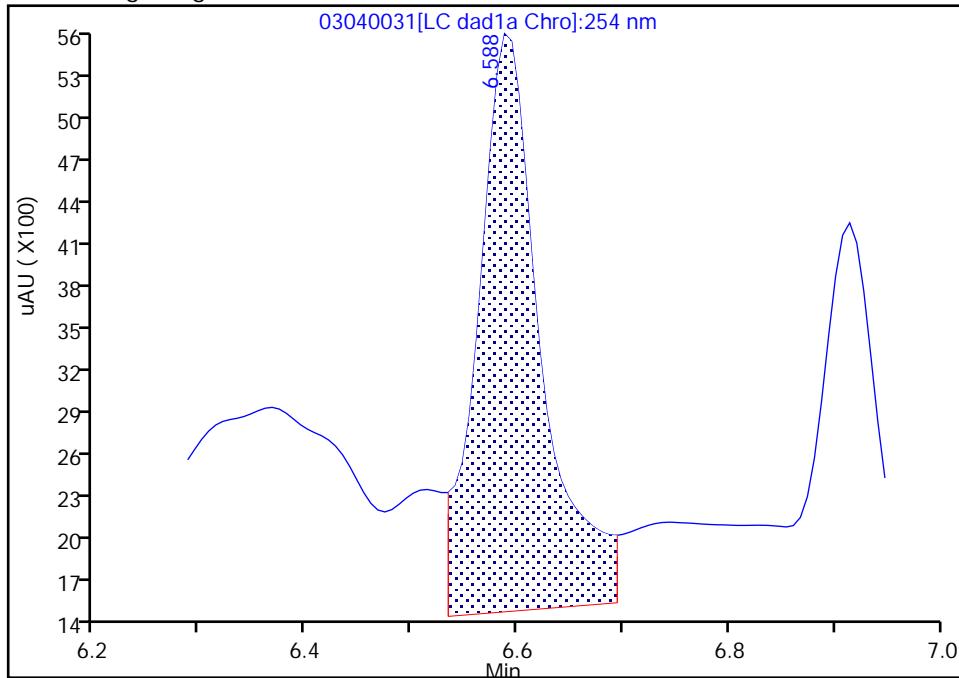
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040031.d
 Injection Date: 04-Mar-2020 23:17:52 Instrument ID: CHHPLC_X3
 Lims ID: IC DMT L2
 Client ID:
 Operator ID: CB ALS Bottle#: 31 Worklist Smp#: 31
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

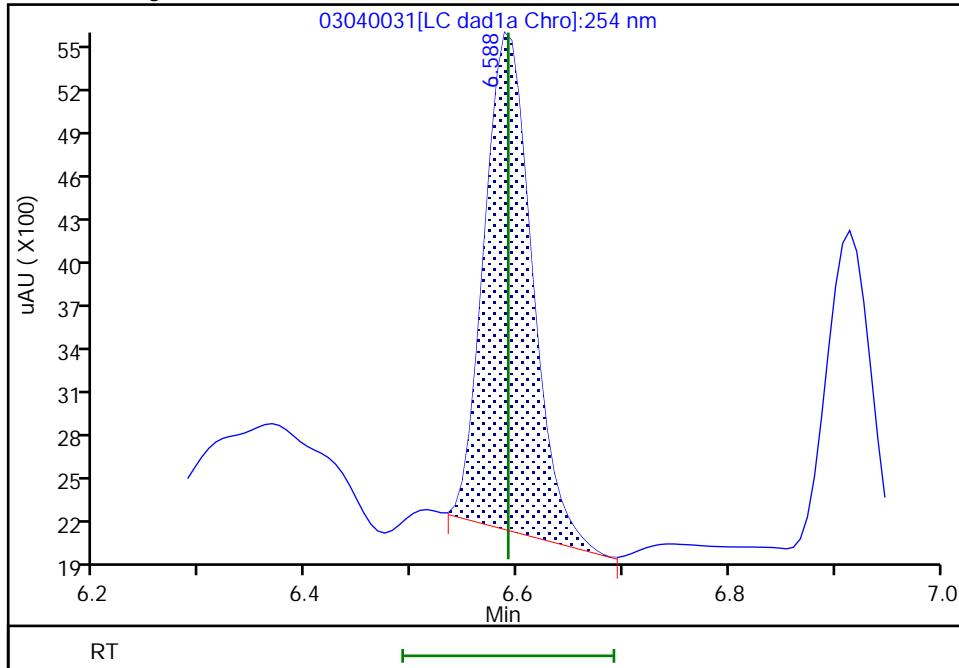
Processing Integration Results

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

Eurofins TestAmerica, Denver

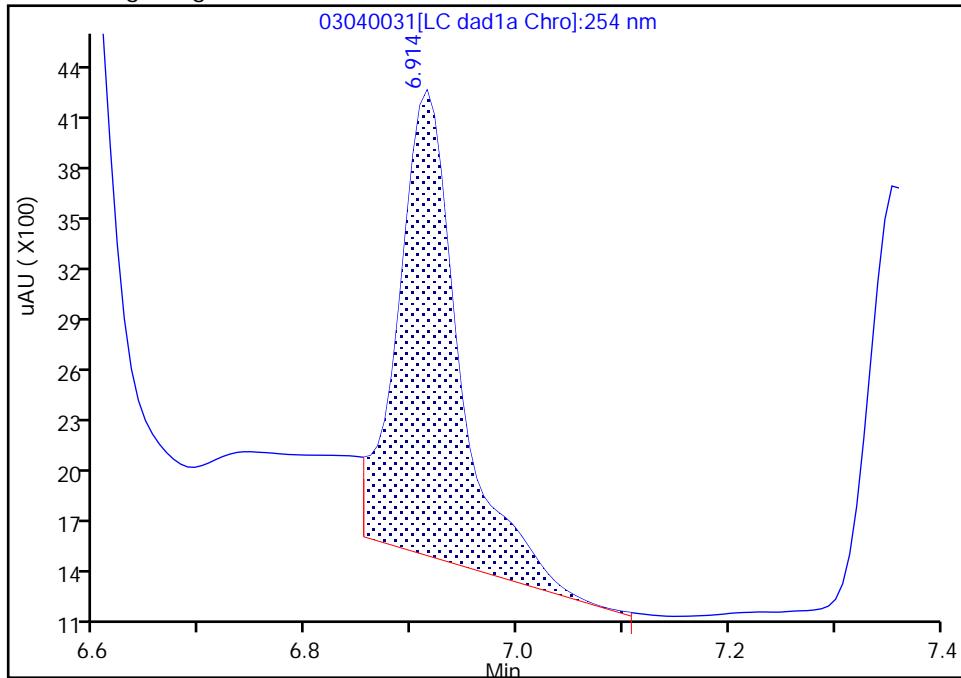
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040031.d
 Injection Date: 04-Mar-2020 23:17:52 Instrument ID: CHHPLC_X3
 Lims ID: IC DMT L2
 Client ID:
 Operator ID: CB ALS Bottle#: 31 Worklist Smp#: 31
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

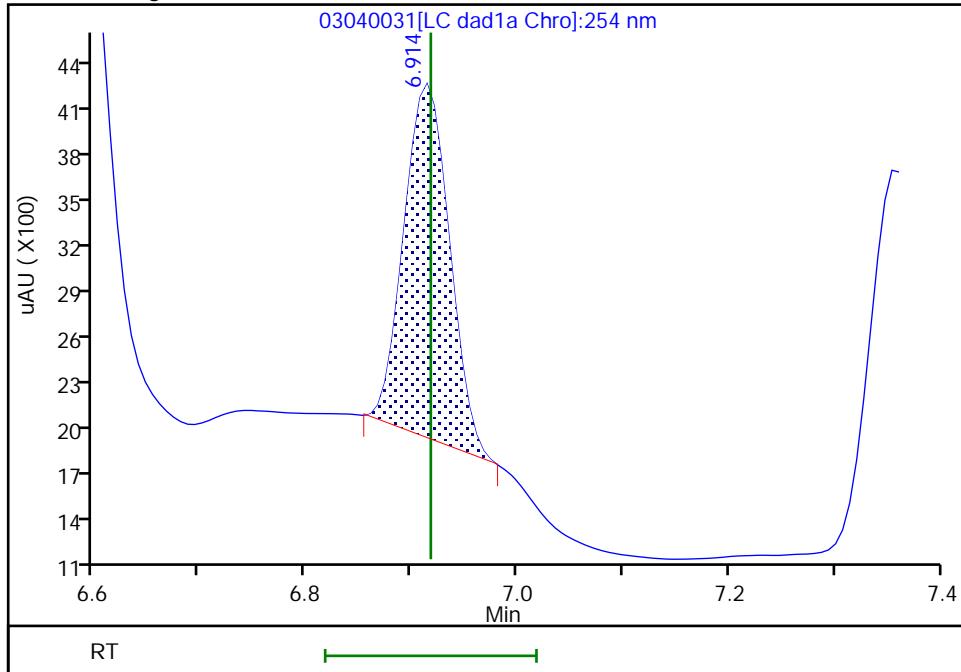
Processing Integration Results

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

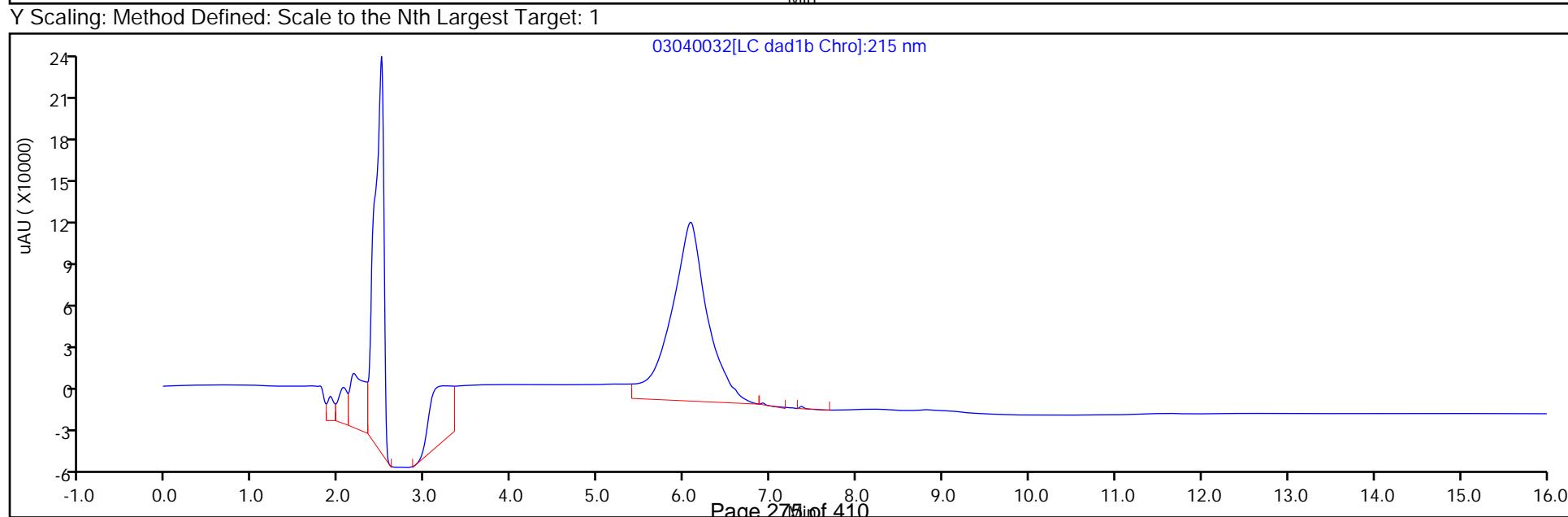
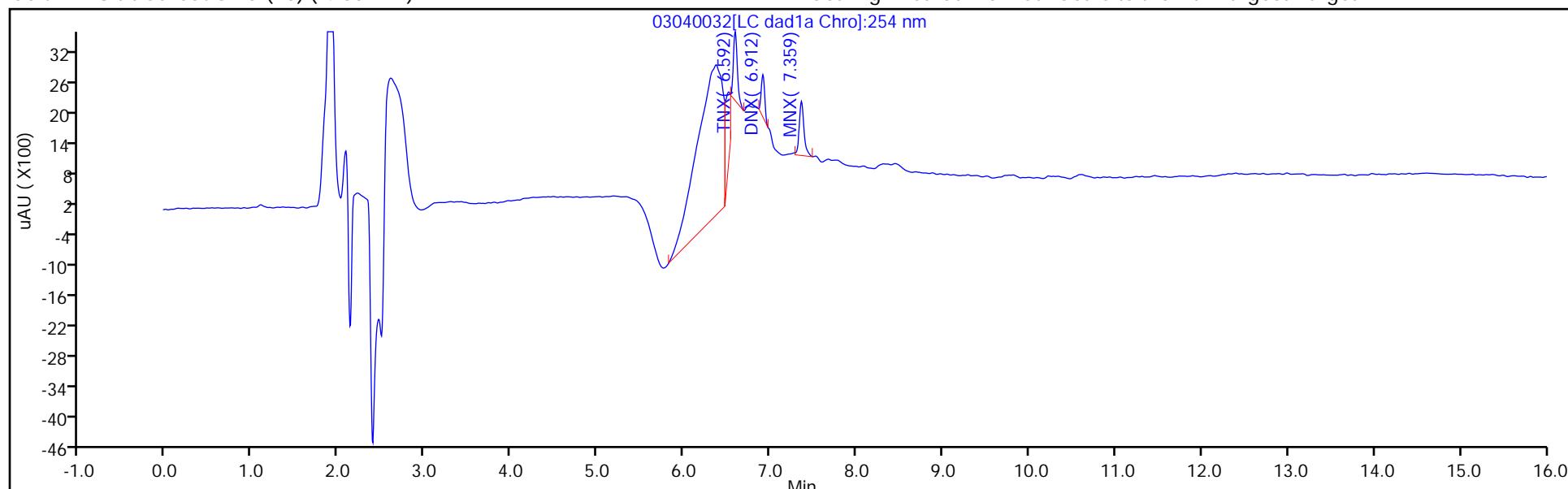
ALS Bottle#: 32

Method: 8330_X3

Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

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



Eurofins TestAmerica, Denver

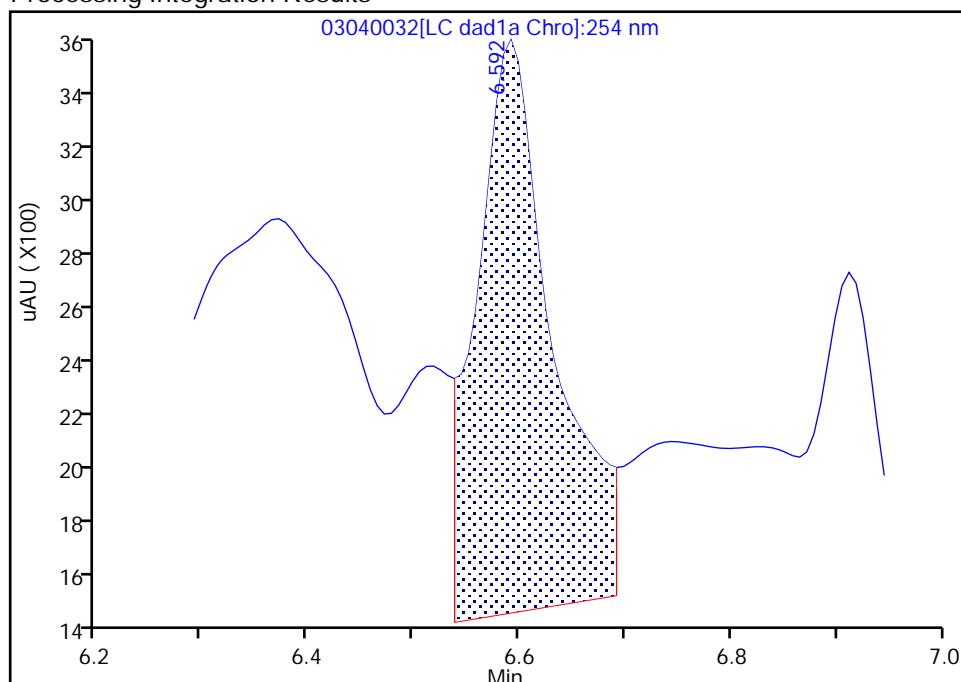
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040032.d
 Injection Date: 04-Mar-2020 23:40:46 Instrument ID: CHHPLC_X3
 Lims ID: IC DMT L1
 Client ID:
 Operator ID: CB ALS Bottle#: 32 Worklist Smp#: 32
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

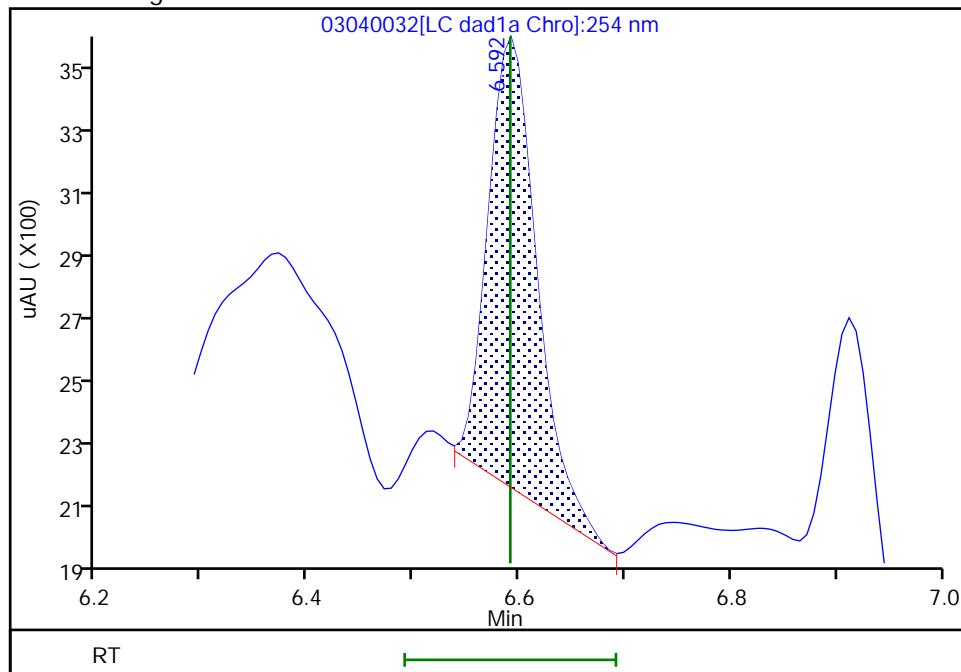
RT: 6.59
 Area: 10465
 Amount: 0.032149
 Amount Units: ug/mL

Processing Integration Results



RT: 6.59
 Area: 4343
 Amount: 0.019958
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 05-Mar-2020 08:32:43

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

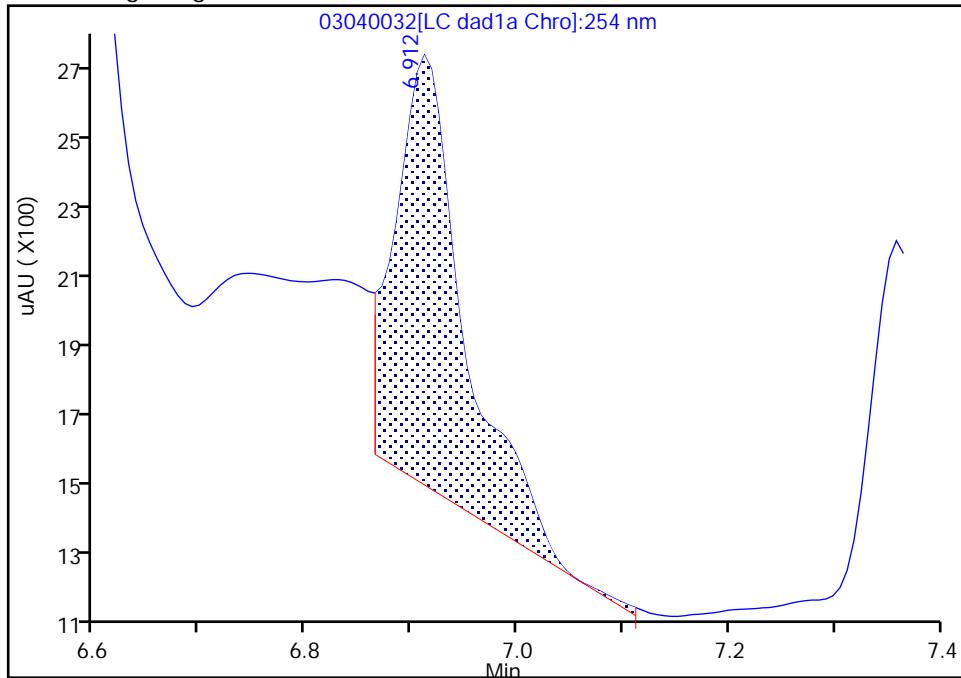
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040032.d
 Injection Date: 04-Mar-2020 23:40:46 Instrument ID: CHHPLC_X3
 Lims ID: IC DMT L1
 Client ID:
 Operator ID: CB ALS Bottle#: 32 Worklist Smp#: 32
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

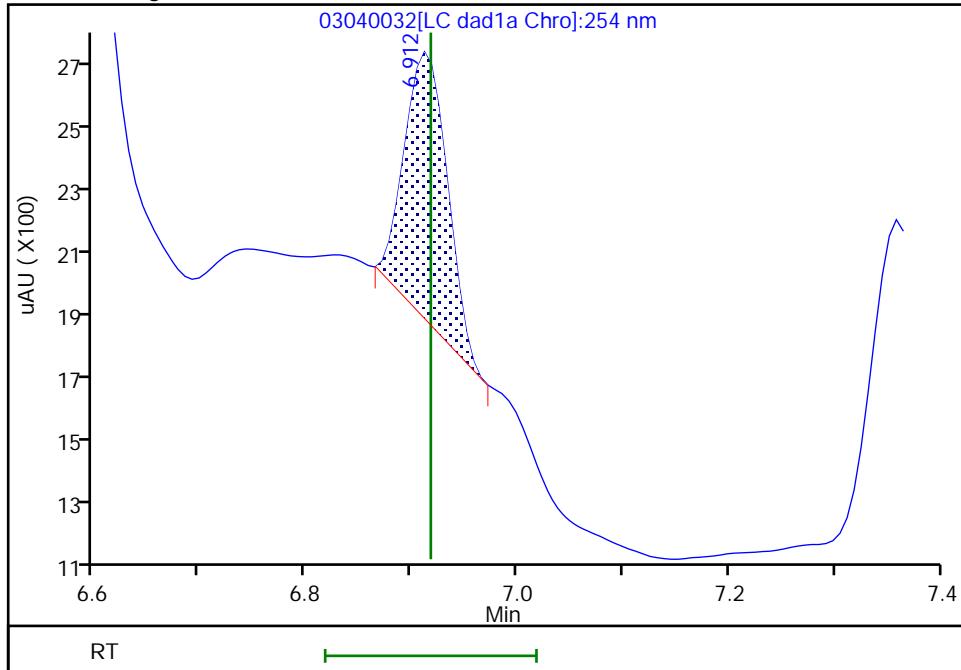
Processing Integration Results

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 VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: ICV 280-487544/15 Calibration Date: 03/03/2020 22:41
Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 03/03/2020 18:01
GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/03/2020 22:06
Lab File ID: 03030015.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Picric acid	Lin2		176650		436	400	9.0	15.0
HMX	Lin2		182133		410	400	2.5	15.0
RDX	Lin2		224258		416	400	3.9	15.0
Nitrobenzene	Lin2		421965		430	400	7.5	15.0
1,3-Dinitrobenzene	Lin2		688550		421	400	5.1	15.0
Nitroglycerin	Lin2		146094		4050	4000	1.3	15.0
2-Nitrotoluene	Lin2		246105		428	400	6.9	15.0
4-Nitrotoluene	Lin2		240890		439	400	9.8	15.0
4-Amino-2,6-dinitrotoluene	Lin2		335405		412	400	3.0	15.0
3-Nitrotoluene	Lin2		251900		440	400	10.1	15.0
2-Amino-4,6-dinitrotoluene	Qua		511803		416	400	4.1	15.0
1,3,5-Trinitrobenzene	Lin2		502695		429	400	7.2	15.0
2,6-Dinitrotoluene	Lin2		298105		418	400	4.4	15.0
2,4-Dinitrotoluene	Lin2		606623		400	400	-0.1	15.0
Tetryl	Lin2		362515		409	400	2.3	15.0
2,4,6-Trinitrotoluene	Lin2		424075		416	400	4.0	15.0
PETN	Lin1		141085		3890	4000	-2.8	15.0
1,2-Dinitrobenzene	Lin2		289355		414	400	3.4	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: ICV 280-487544/15 Calibration Date: 03/03/2020 22:41
Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 03/03/2020 18:01
GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/03/2020 22:06
Lab File ID: 03030015.D

Analyte	RT	RT WINDOW	
		FROM	TO
Picric acid	5.56	5.44	5.74
HMX	6.93	6.80	7.10
RDX	9.10	8.97	9.27
Nitrobenzene	12.08	11.96	12.26
1,3-Dinitrobenzene	15.53	15.40	15.70
Nitroglycerin	15.79	15.66	15.96
2-Nitrotoluene	16.56	16.43	16.73
4-Nitrotoluene	16.82	16.70	17.00
4-Amino-2,6-dinitrotoluene	17.14	17.01	17.31
3-Nitrotoluene	17.76	17.64	17.94
2-Amino-4,6-dinitrotoluene	17.98	17.86	18.16
1,3,5-Trinitrobenzene	18.88	18.76	19.06
2,6-Dinitrotoluene	19.82	19.70	20.00
2,4-Dinitrotoluene	20.29	20.17	20.47
Tetryl	23.56	23.43	23.73
2,4,6-Trinitrotoluene	24.69	24.56	24.86
PETN	25.27	25.14	25.44
1,2-Dinitrobenzene	13.01	12.88	13.18

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030015.D
 Lims ID: ICV FULL
 Client ID:
 Sample Type: ICV
 Inject. Date: 03-Mar-2020 22:41:21 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: ICV FULL
 Misc. Info.: 280-0089749-015
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist:
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 05-Mar-2020 11:40:10 Calib Date: 03-Mar-2020 22:06:26
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030014.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0319

First Level Reviewer: beckerc

Date:

04-Mar-2020 08:28:56

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	4.337	4.360	-0.023	183371	0.4000	0.3848	
2 2,4-diamino-6-nitrotoluene	1	4.910	4.913	-0.003	112796	0.4000	0.3913	
5 2,4,6-Trinitrophenol	1	5.557	5.587	-0.030	70660	0.4000	0.4360	
6 HMX	1	6.930	6.947	-0.017	72853	0.4000	0.4102	
8 RDX	1	9.097	9.120	-0.023	89703	0.4000	0.4158	
9 Nitrobenzene	1	12.083	12.113	-0.030	168786	0.4000	0.4301	
\$ 10 1,2-Dinitrobenzene	1	13.010	13.033	-0.023	115742	0.4000	0.4136	
11 3,5-Dinitroaniline	1	14.830	14.853	-0.023	209488	0.4000	0.3863	
12 1,3-Dinitrobenzene	1	15.530	15.553	-0.023	275420	0.4000	0.4206	
13 Nitroglycerin	2	15.790	15.813	-0.023	584375	4.00	4.05	M
14 o-Nitrotoluene	1	16.557	16.580	-0.023	98442	0.4000	0.4276	
15 p-Nitrotoluene	1	16.823	16.853	-0.030	96356	0.4000	0.4393	
16 4-Amino-2,6-dinitrotoluene	1	17.137	17.160	-0.023	134162	0.4000	0.4120	
17 m-Nitrotoluene	1	17.757	17.787	-0.030	100760	0.4000	0.4403	
18 2-Amino-4,6-dinitrotoluene	1	17.983	18.013	-0.030	204721	0.4000	0.4163	
19 1,3,5-Trinitrobenzene	1	18.883	18.907	-0.024	201078	0.4000	0.4288	
20 2,6-Dinitrotoluene	1	19.823	19.853	-0.030	119242	0.4000	0.4176	
21 2,4-Dinitrotoluene	1	20.290	20.320	-0.030	242649	0.4000	0.3995	
22 Tetryl	1	23.557	23.580	-0.023	145006	0.4000	0.4090	
23 2,4,6-Trinitrotoluene	1	24.690	24.713	-0.023	169630	0.4000	0.4159	
24 PETN	2	25.270	25.293	-0.023	564338	4.00	3.89	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330Surrogate_00109	Amount Added: 40.00	Units: uL
3,5-DNA LCS_00034	Amount Added: 40.00	Units: uL
8330 LCS_00094	Amount Added: 40.00	Units: uL
8330DiaminLCS_00036	Amount Added: 40.00	Units: uL

Report Date: 05-Mar-2020 11:40:11

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200303-89749.b\\03030015.d

Injection Date: 03-Mar-2020 22:41:21

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: ICV FULL

Worklist Smp#: 15

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

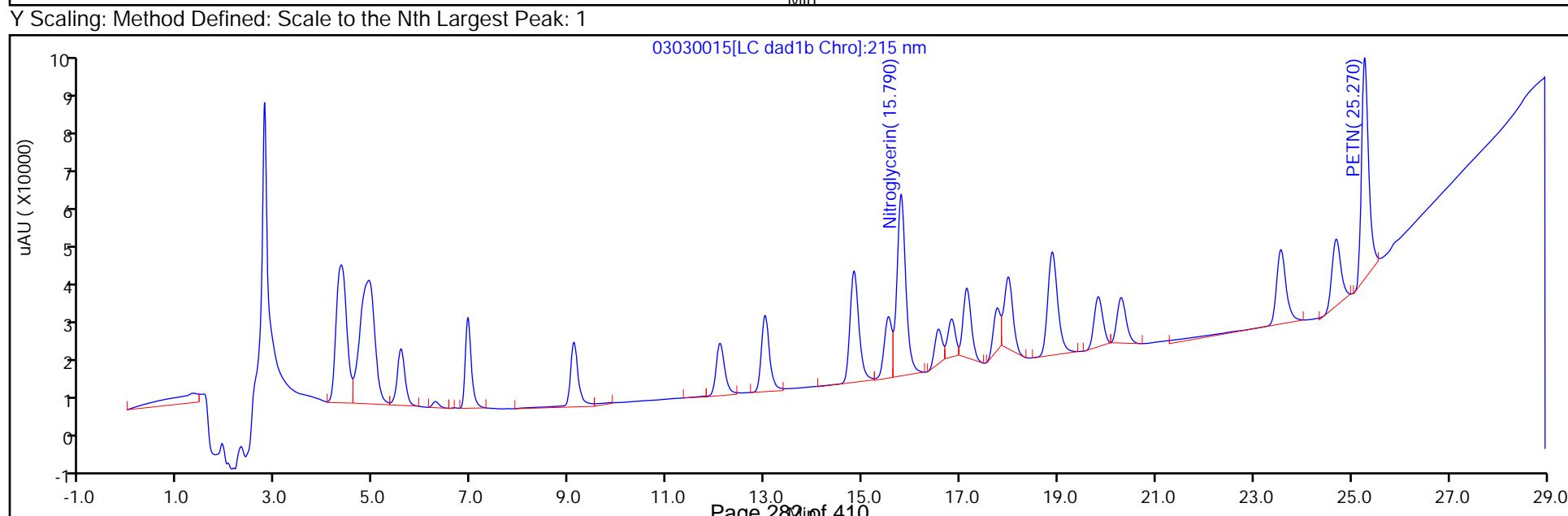
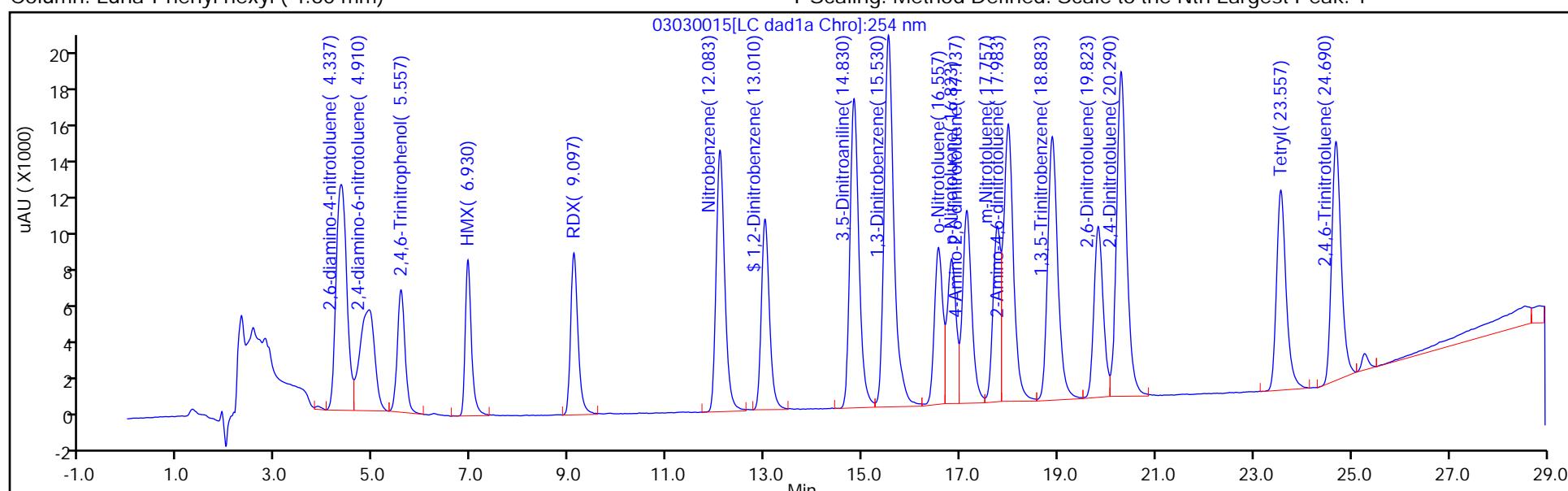
ALS Bottle#: 15

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



Eurofins TestAmerica, Denver

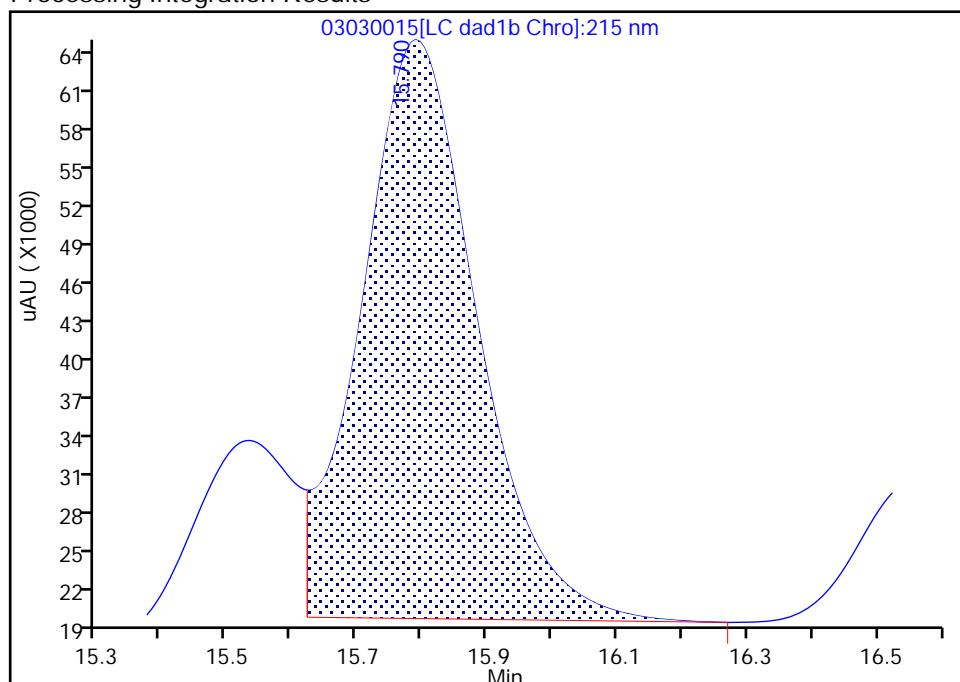
Data File: \\chromna\denver\chromdata\g2_luna\20200303-89749.b\03030015.d
 Injection Date: 03-Mar-2020 22:41:21 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: ICV FULL
 Client ID:
 Operator ID: CB ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Detector LC DAD1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

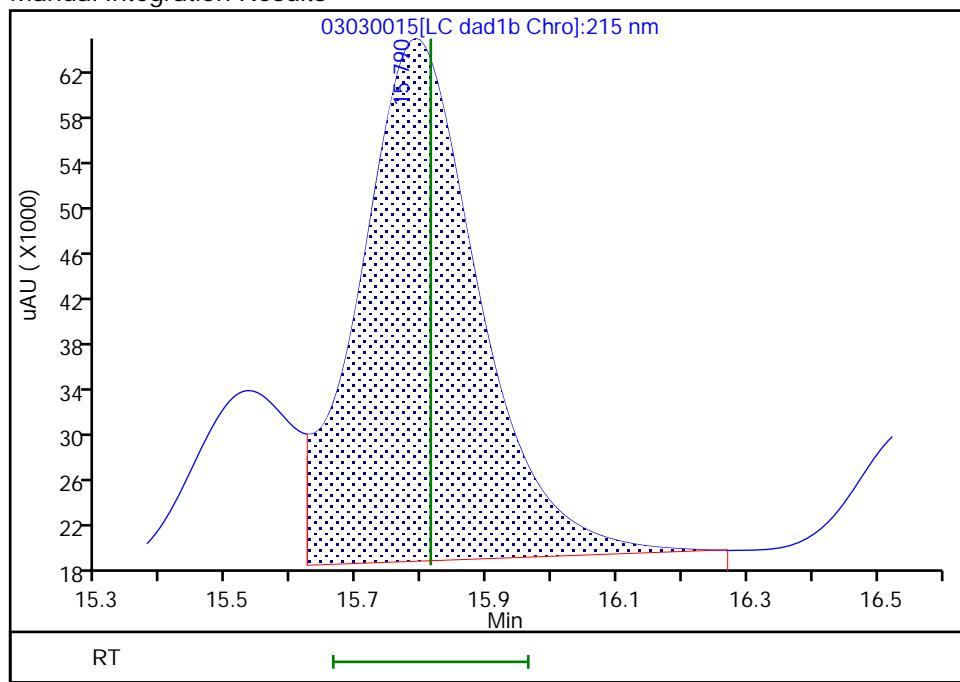
RT: 15.79
 Area: 552385
 Amount: 3.123938
 Amount Units: ug/ml

Processing Integration Results



RT: 15.79
 Area: 584375
 Amount: 4.052044
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 04-Mar-2020 08:28:40

Audit Action: Assigned New Baseline

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1

SDG No.: _____

Lab Sample ID: ICV 280-487544/24 Calibration Date: 03/04/2020 03:55

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 03/03/2020 23:16

GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/04/2020 03:21

Lab File ID: 03030024.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	454578	385944		340	400	-15.1*	15.0
DNX	Ave	327828	287023		351	400	-12.4	15.0
MNX	Ave	305766	266795		407	467	-12.7	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: ICV 280-487544/24 Calibration Date: 03/04/2020 03:55
Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 03/03/2020 23:16
GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/04/2020 03:21
Lab File ID: 03030024.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.39	5.25	5.55
DNX	6.19	6.05	6.35
MNX	7.70	7.56	7.86

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030024.D
 Lims ID: ICV DMT
 Client ID:
 Sample Type: ICV
 Inject. Date: 04-Mar-2020 03:55:58 ALS Bottle#: 24 Worklist Smp#: 24
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: ICV DMT
 Misc. Info.: 280-0089749-024
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist:
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 05-Mar-2020 11:27:55 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0319

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.394	5.400	-0.006	154532	0.4004	0.3399	
4 DNX	1	6.194	6.200	-0.006	114924	0.4004	0.3506	
7 MNX	1	7.701	7.707	-0.006	124540	0.4668	0.4073	

Reagents:

8330_OP_DMT_00005 Amount Added: 40.00 Units: uL

Report Date: 05-Mar-2020 11:27:57

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200303-89749.b\\03030024.d

Injection Date: 04-Mar-2020 03:55:58

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: ICV DMT

Worklist Smp#: 24

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

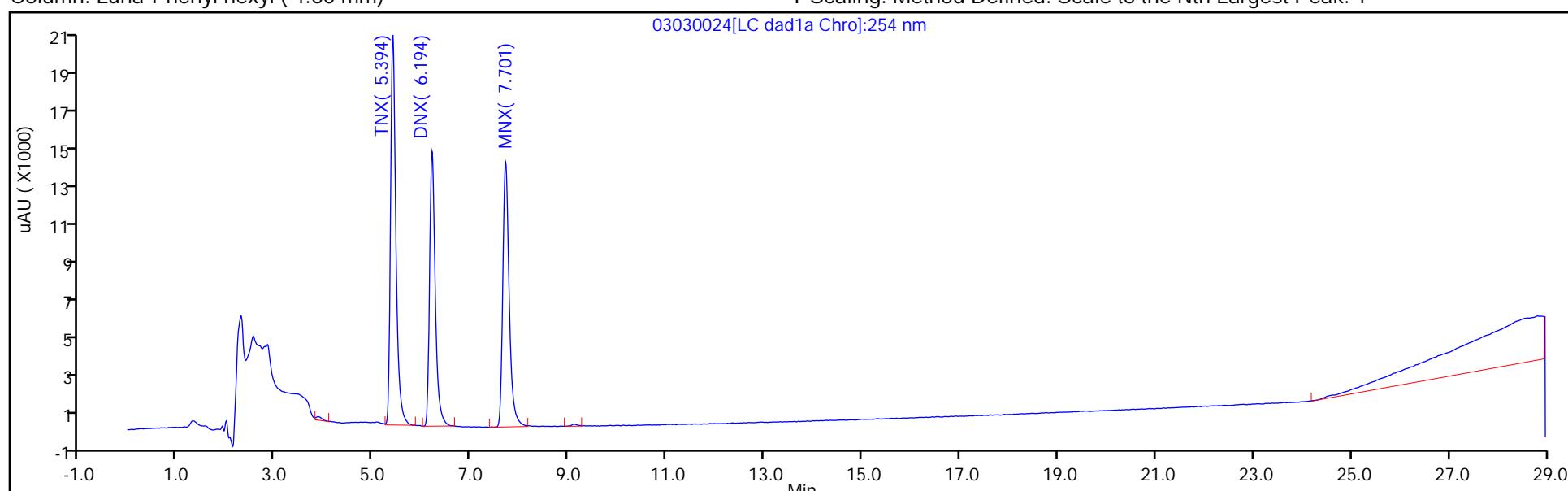
ALS Bottle#: 24

Method: G2_8330_Luna

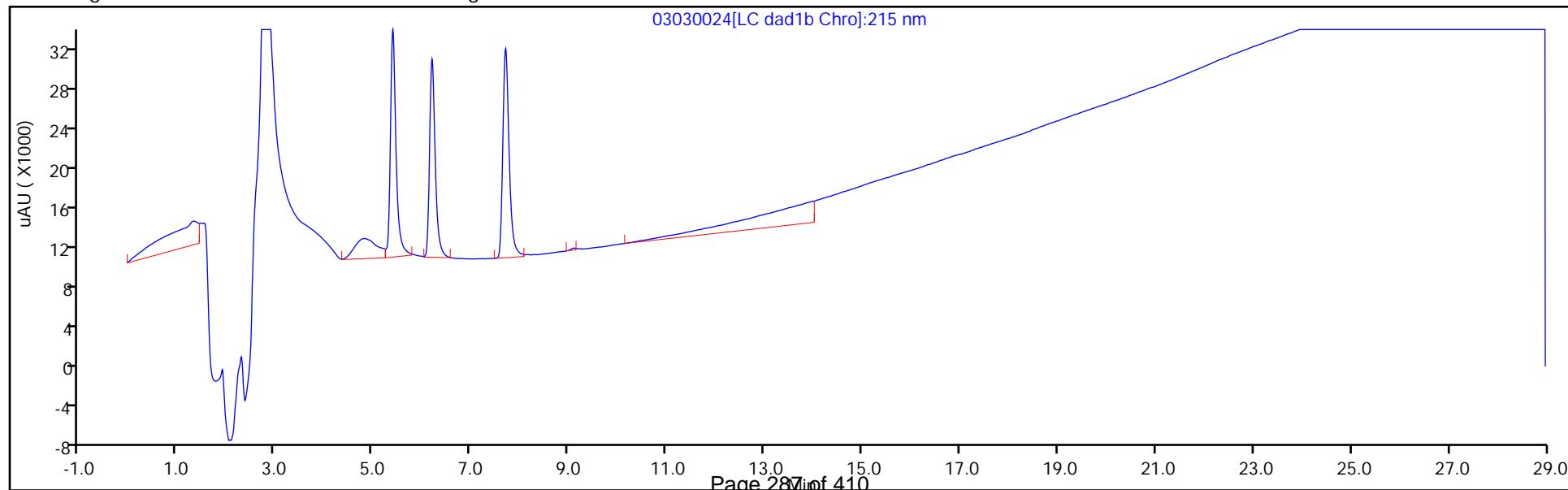
Limit Group: GCSV - 8330

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 VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: CCV 280-488850/38 Calibration Date: 03/17/2020 08:54
Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 03/03/2020 18:01
GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/03/2020 22:06
Lab File ID: 03160038.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Picric acid	Lin2		163096		248	250	-0.9	15.0
HMX	Lin2		183620		254	250	1.8	15.0
RDX	Lin2		222684		253	250	1.2	15.0
Nitrobenzene	Lin2		399618		252	251	0.2	15.0
1,3-Dinitrobenzene	Lin2		668068		251	251	0.2	15.0
Nitroglycerin	Lin2		129203		2180	2500	-12.8	15.0
2-Nitrotoluene	Lin2		277960		299	250	19.6*	15.0
4-Nitrotoluene	Lin2		220627		248	251	-1.1	15.0
4-Amino-2,6-dinitrotoluene	Lin2		299225		226	250	-9.7	15.0
3-Nitrotoluene	Lin2		254130		275	250	9.8	15.0
2-Amino-4,6-dinitrotoluene	Qua		478470		244	251	-2.6	15.0
1,3,5-Trinitrobenzene	Lin2		476184		251	251	0.1	15.0
2,6-Dinitrotoluene	Lin2		299673		260	251	3.5	15.0
2,4-Dinitrotoluene	Lin2		618992		252	251	0.5	15.0
Tetryl	Lin2		368747		256	251	2.1	15.0
2,4,6-Trinitrotoluene	Lin2		400809		243	251	-3.3	15.0
PETN	Lin1		157432		2690	2500	7.5	15.0
1,2-Dinitrobenzene	Lin2		290364		254	250	1.8	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: CCV 280-488850/38 Calibration Date: 03/17/2020 08:54
Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 03/03/2020 18:01
GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/03/2020 22:06
Lab File ID: 03160038.D

Analyte	RT	RT WINDOW	
		FROM	TO
Picric acid	5.57	5.38	5.68
HMX	6.78	6.65	6.95
RDX	8.88	8.77	9.07
Nitrobenzene	11.82	11.73	12.03
1,3-Dinitrobenzene	15.18	15.10	15.40
Nitroglycerin	15.41	15.34	15.64
2-Nitrotoluene	16.18	16.12	16.42
4-Nitrotoluene	16.46	16.40	16.70
4-Amino-2,6-dinitrotoluene	16.68	16.62	16.92
3-Nitrotoluene	17.39	17.32	17.62
2-Amino-4,6-dinitrotoluene	17.50	17.44	17.74
1,3,5-Trinitrobenzene	18.48	18.40	18.70
2,6-Dinitrotoluene	19.38	19.31	19.61
2,4-Dinitrotoluene	19.85	19.78	20.08
Tetryl	23.06	23.00	23.30
2,4,6-Trinitrotoluene	24.23	24.16	24.46
PETN	24.91	24.84	25.14
1,2-Dinitrobenzene	12.68	12.60	12.90

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200316-90087.b\03160038.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 17-Mar-2020 08:54:10 ALS Bottle#: 7 Worklist Smp#: 38
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: 280-0090087-038
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub6
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200316-90087.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 18-Mar-2020 14:50:35 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0307

First Level Reviewer: beckerc

Date:

17-Mar-2020 10:57:15

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	4.277	4.280	-0.003	120425	0.2500	0.2527	
2 2,4-diamino-6-nitrotoluene	1	4.770	4.780	-0.010	75639	0.2500	0.2627	
5 2,4,6-Trinitrophenol	1	5.570	5.534	0.036	40774	0.2500	0.2478	
6 HMX	1	6.777	6.800	-0.023	45905	0.2500	0.2544	
8 RDX	1	8.884	8.920	-0.036	55671	0.2500	0.2530	
9 Nitrobenzene	1	11.817	11.880	-0.063	100304	0.2510	0.2516	
\$ 10 1,2-Dinitrobenzene	1	12.677	12.753	-0.076	72591	0.2500	0.2544	
11 3,5-Dinitroaniline	1	14.450	14.533	-0.083	138237	0.2500	0.2545	M
12 1,3-Dinitrobenzene	1	15.177	15.247	-0.070	167351	0.2505	0.2511	M
13 Nitroglycerin	2	15.410	15.493	-0.083	323007	2.50	2.18	M
14 o-Nitrotoluene	1	16.184	16.267	-0.083	69490	0.2500	0.2991	M
15 p-Nitrotoluene	1	16.464	16.547	-0.083	55267	0.2505	0.2479	M
16 4-Amino-2,6-dinitrotoluene	1	16.677	16.767	-0.090	74881	0.2503	0.2259	M
17 m-Nitrotoluene	1	17.390	17.467	-0.077	63596	0.2503	0.2749	M
18 2-Amino-4,6-dinitrotoluene	1	17.504	17.593	-0.089	120096	0.2510	0.2445	M
19 1,3,5-Trinitrobenzene	1	18.477	18.547	-0.070	119284	0.2505	0.2508	M
20 2,6-Dinitrotoluene	1	19.384	19.460	-0.076	75218	0.2510	0.2597	M
21 2,4-Dinitrotoluene	1	19.850	19.927	-0.077	155367	0.2510	0.2521	M
22 Tetryl	1	23.064	23.154	-0.090	92371	0.2505	0.2557	
23 2,4,6-Trinitrotoluene	1	24.230	24.314	-0.084	100603	0.2510	0.2428	
24 PETN	2	24.910	24.987	-0.077	393580	2.50	2.69	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 25.00 Units: uL

8330_ADDs_00023

Amount Added: 12.50 Units: uL

Report Date: 18-Mar-2020 14:50:36

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200316-90087.b\\03160038.d

Injection Date: 17-Mar-2020 08:54:10

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: CCV

Worklist Smp#: 38

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

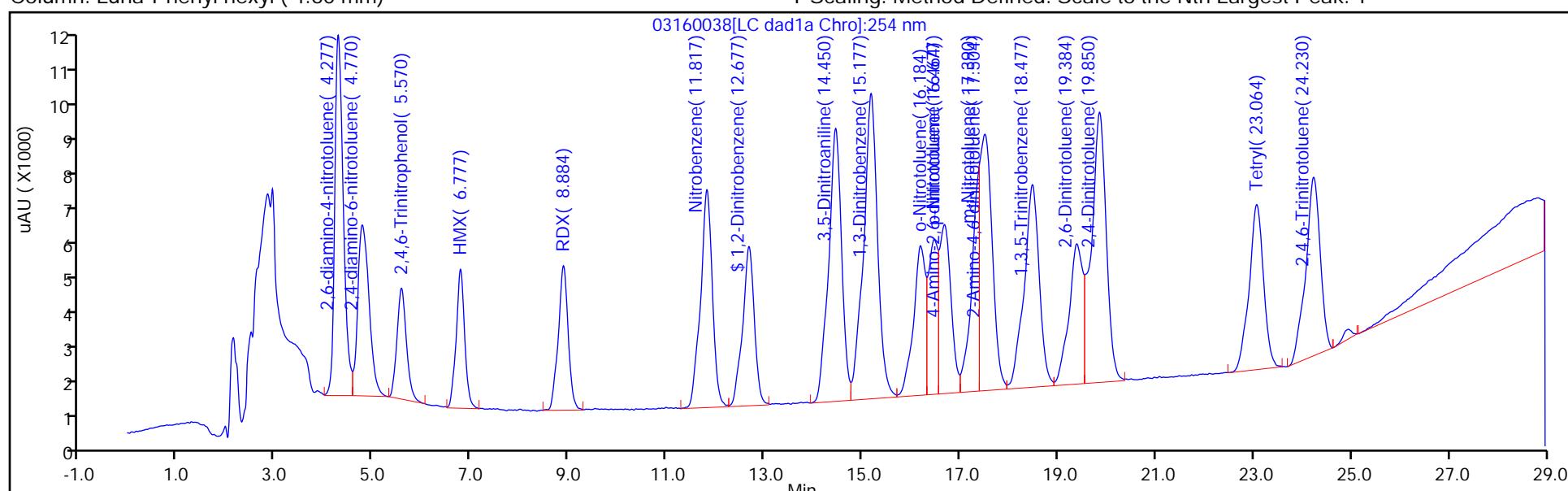
ALS Bottle#: 7

Method: G2_8330_Luna

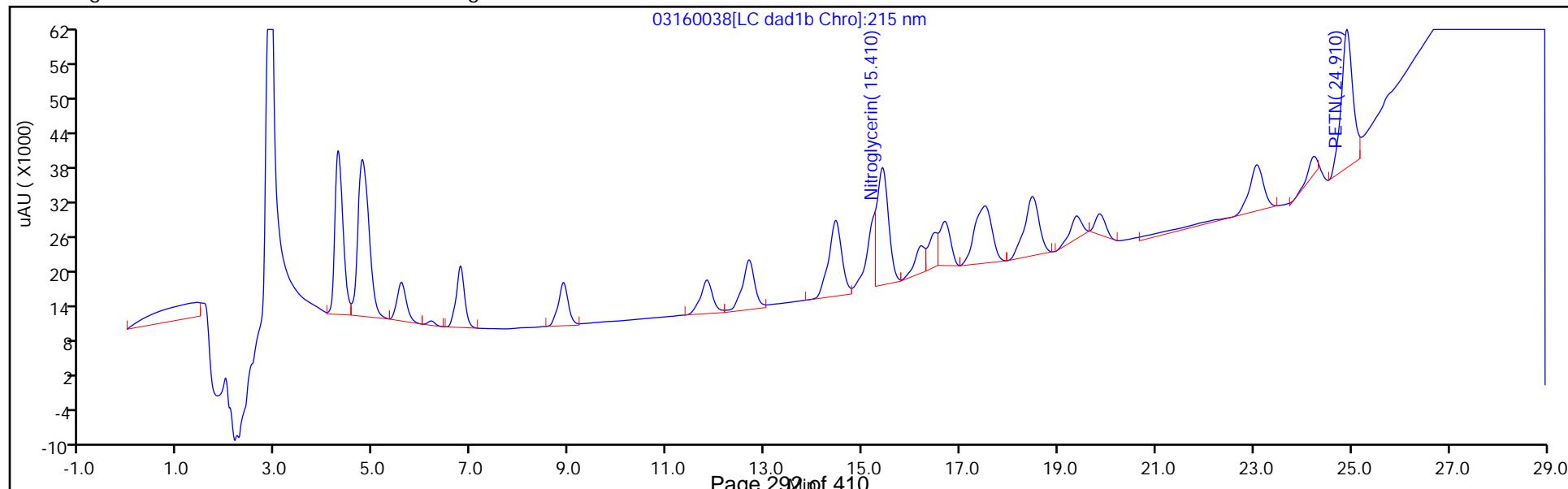
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

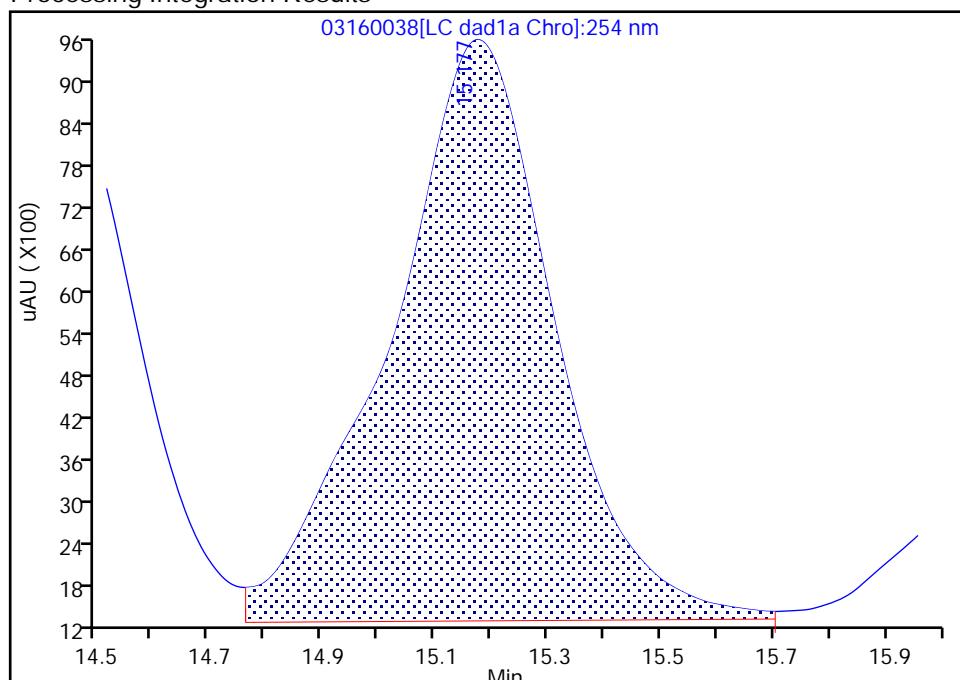
Data File: \\chromna\denver\chromdata\g2_luna\20200316-90087.b\03160038.d
 Injection Date: 17-Mar-2020 08:54:10 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: CCV
 Client ID:
 Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 38
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

12 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

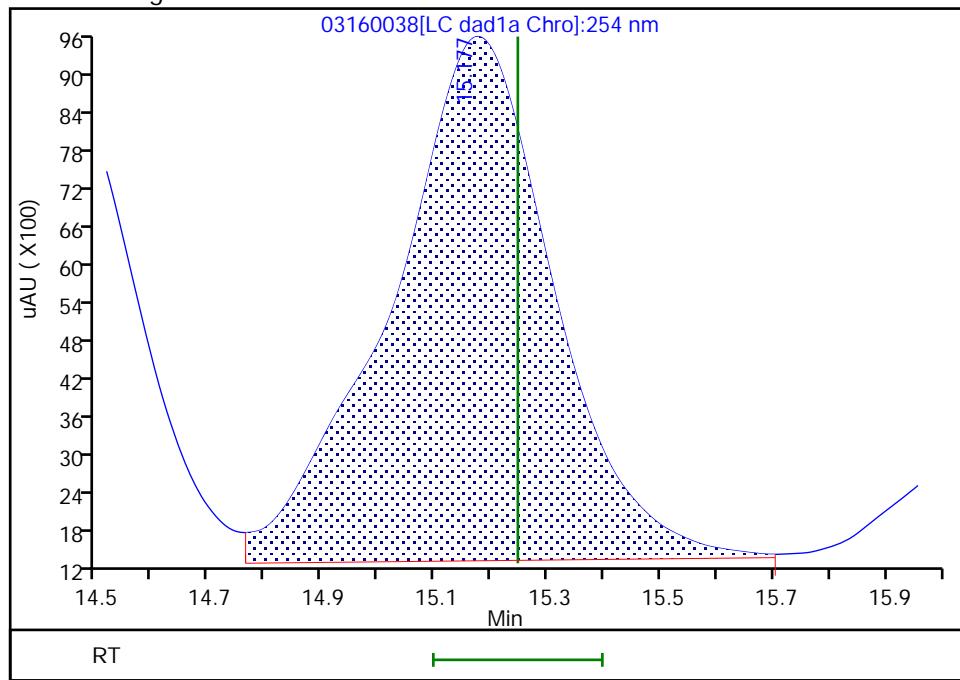
RT: 15.18
 Area: 169353
 Amount: 0.254205
 Amount Units: ug/ml

Processing Integration Results



RT: 15.18
 Area: 167351
 Amount: 0.251065
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 17-Mar-2020 10:49:49

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

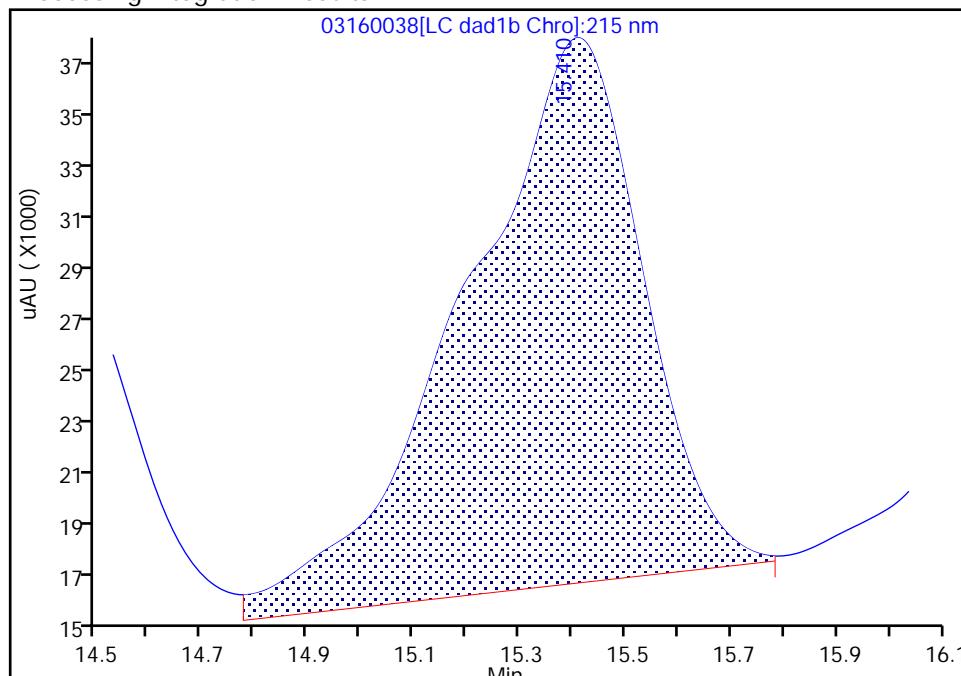
Data File: \\chromna\denver\chromdata\g2_luna\20200316-90087.b\03160038.d
 Injection Date: 17-Mar-2020 08:54:10 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: CCV
 Client ID:
 Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 38
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Detector LC DAD1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

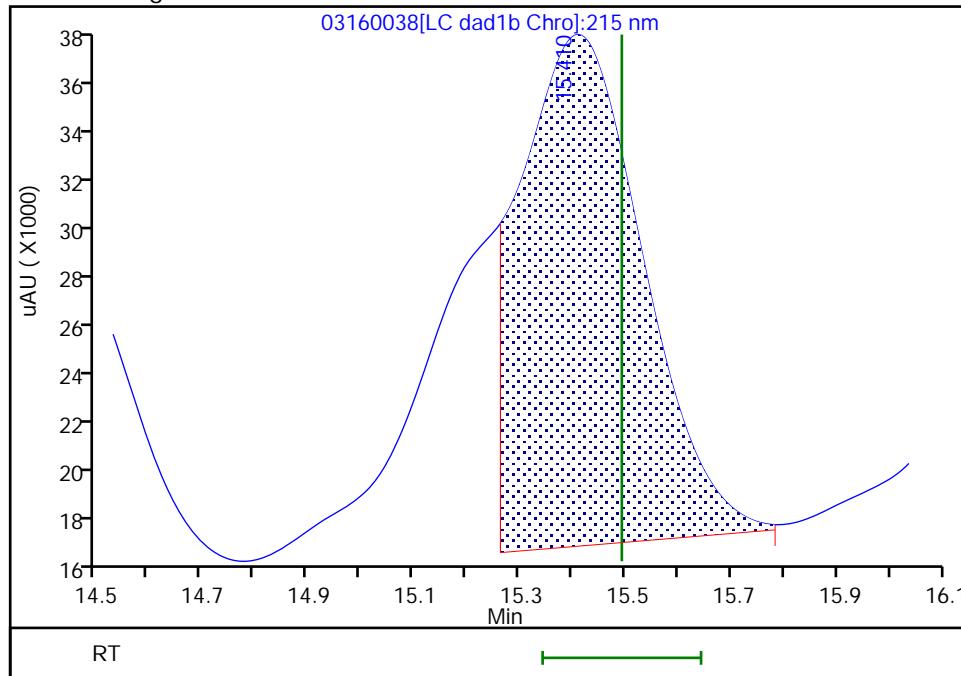
RT: 15.41
 Area: 481258
 Amount: 3.313842
 Amount Units: ug/ml

Processing Integration Results



RT: 15.41
 Area: 323007
 Amount: 2.180943
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 17-Mar-2020 10:48:22

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

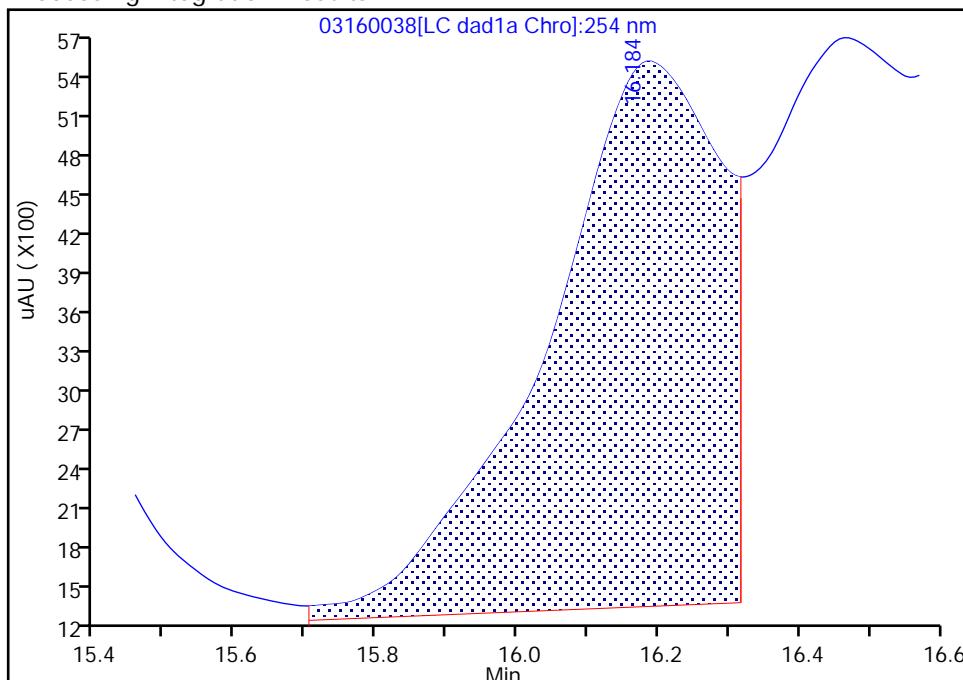
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 Injection Date: 17-Mar-2020 08:54:10 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: CCV
 Client ID:
 Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 38
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

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

Signal: 1

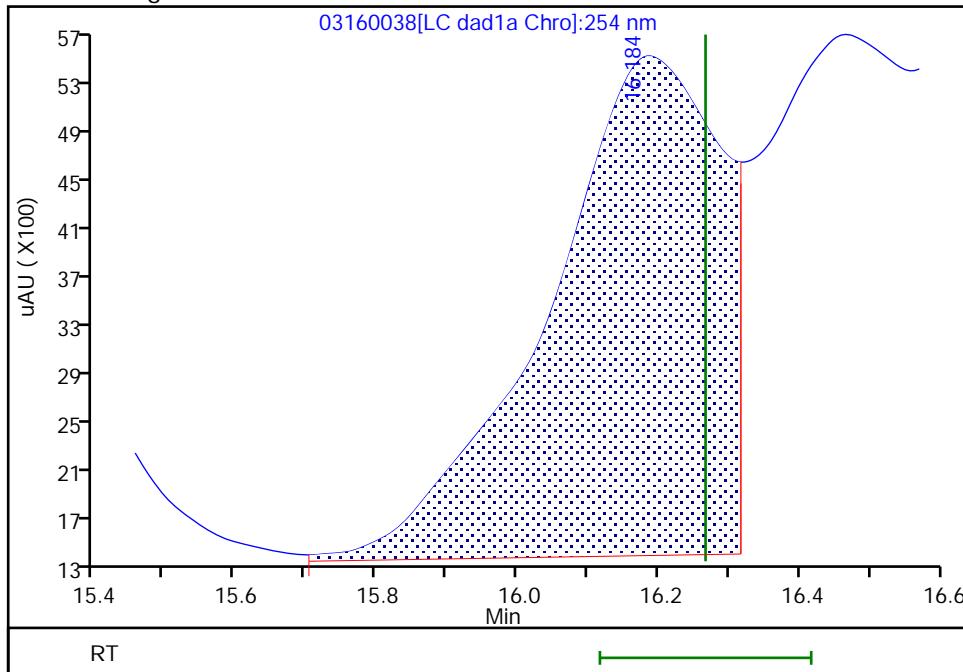
RT: 16.18
 Area: 70207
 Amount: 0.302287
 Amount Units: ug/ml

Processing Integration Results



RT: 16.18
 Area: 69490
 Amount: 0.299105
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 17-Mar-2020 10:49:49

Audit Action: Assigned New Baseline

Audit Reason: Baseline

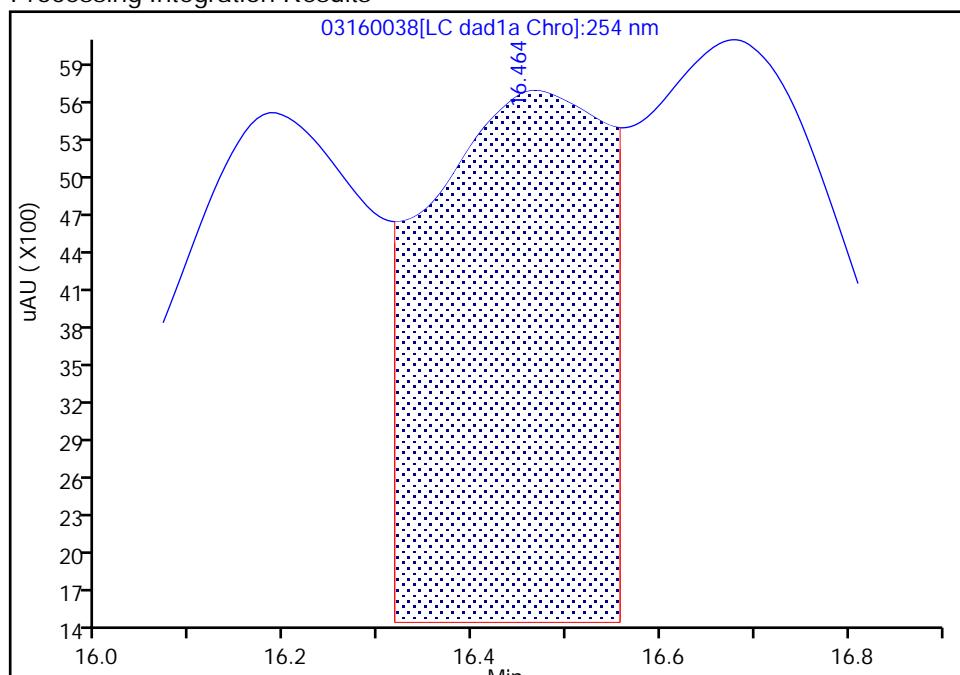
Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\g2_luna\20200316-90087.b\03160038.d
 Injection Date: 17-Mar-2020 08:54:10 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: CCV
 Client ID:
 Operator ID: CB 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

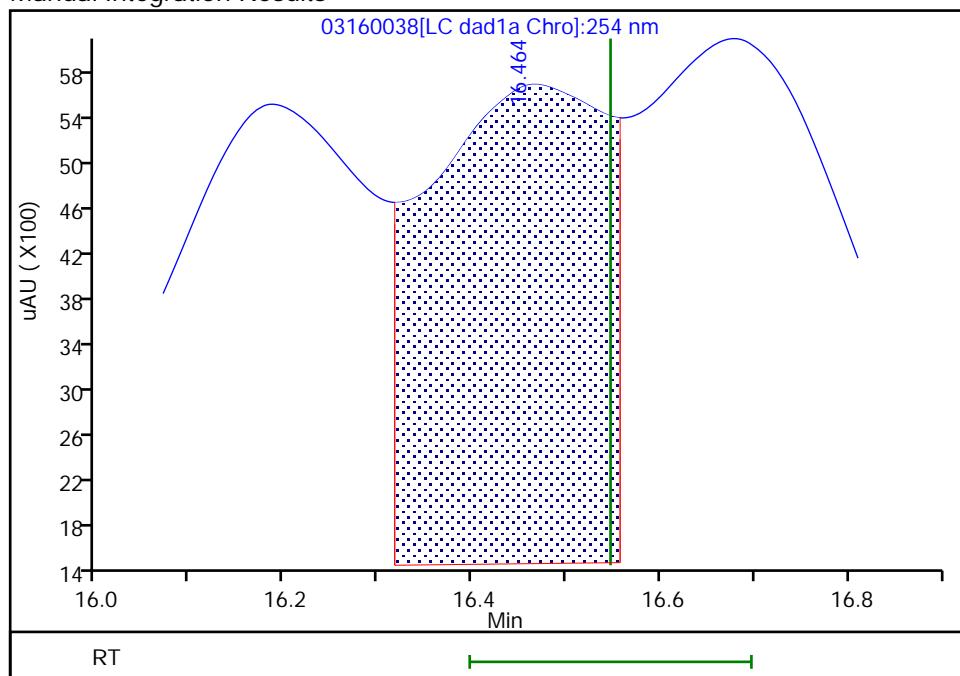
RT: 16.46
 Area: 55188
 Amount: 0.247489
 Amount Units: ug/ml

Processing Integration Results



RT: 16.46
 Area: 55267
 Amount: 0.247857
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 17-Mar-2020 10:49:49

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

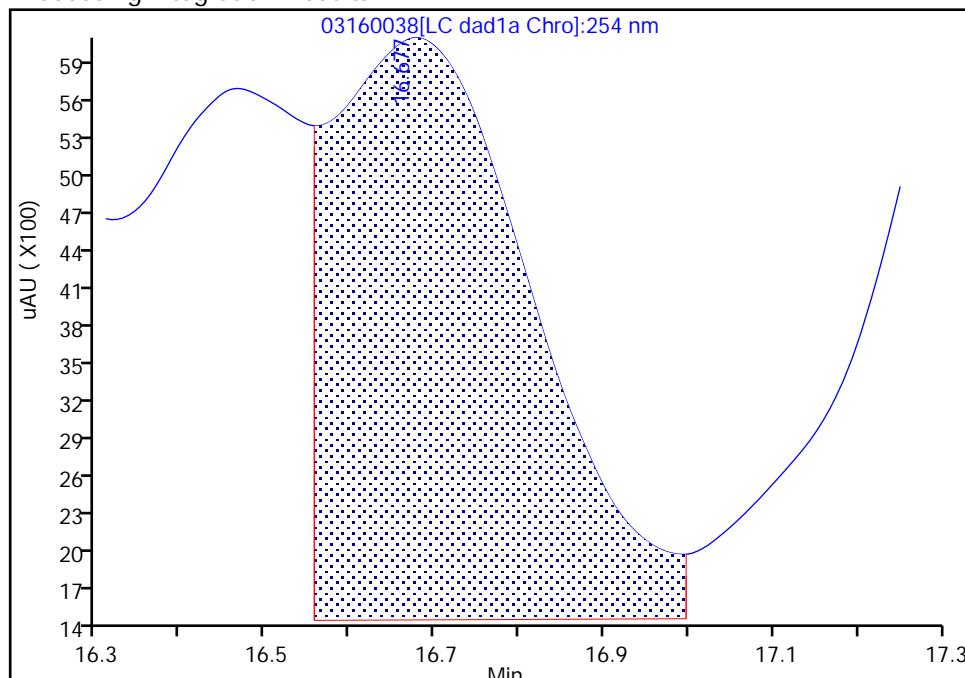
Data File: \\chromna\denver\chromdata\g2_luna\20200316-90087.b\03160038.d
 Injection Date: 17-Mar-2020 08:54:10 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: CCV
 Client ID:
 Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 38
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 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

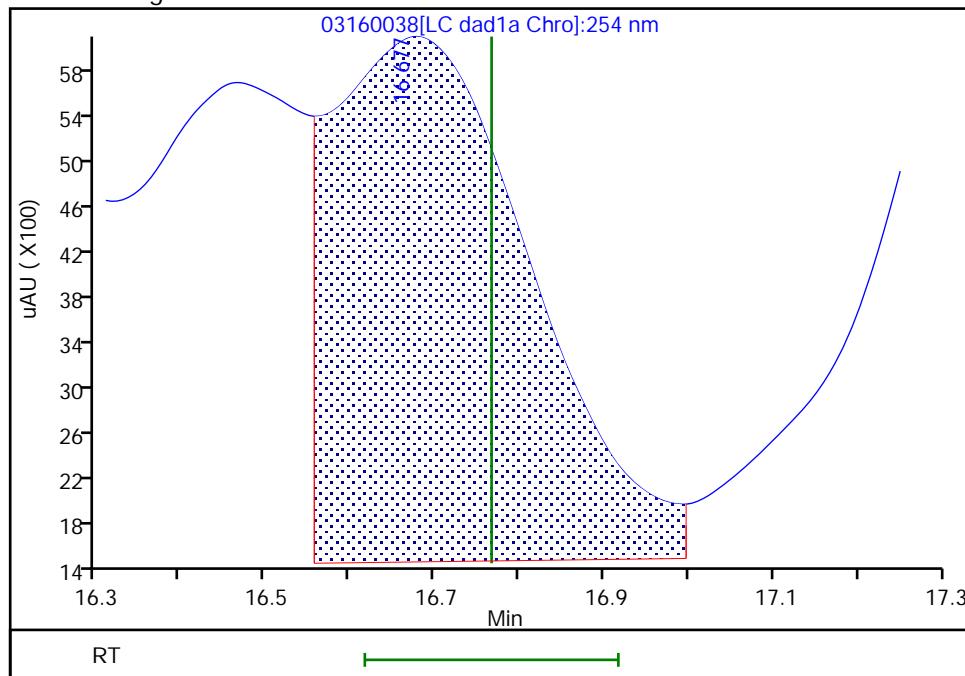
RT: 16.68
 Area: 75423
 Amount: 0.227554
 Amount Units: ug/ml

Processing Integration Results



RT: 16.68
 Area: 74881
 Amount: 0.225852
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 17-Mar-2020 10:49:49

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

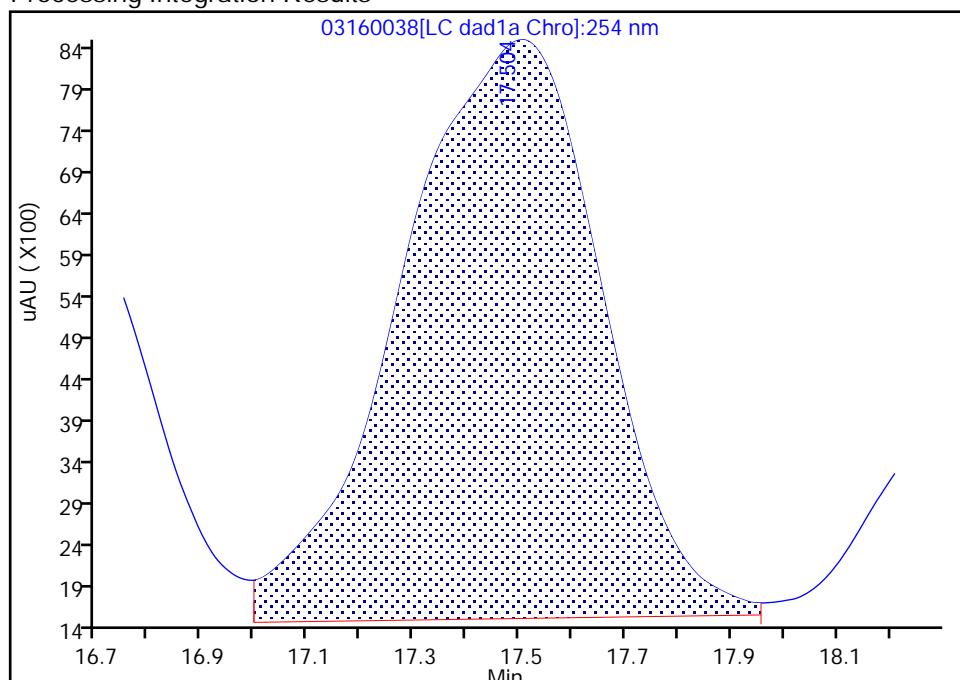
Data File: \\chromna\denver\chromdata\g2_luna\20200316-90087.b\03160038.d
 Injection Date: 17-Mar-2020 08:54:10 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: CCV
 Client ID:
 Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 38
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

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

Signal: 1

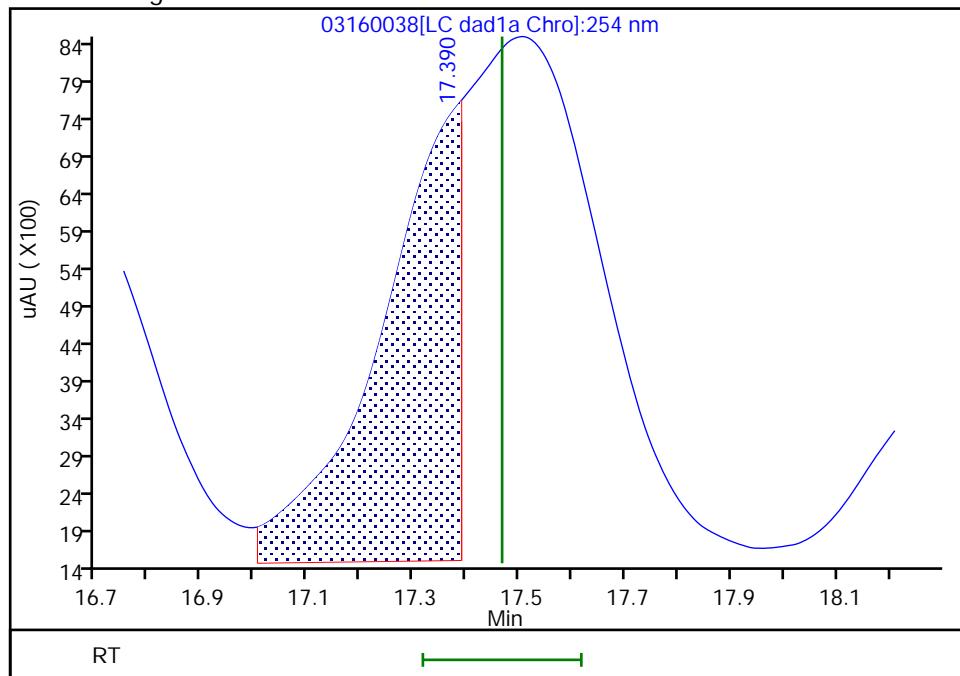
RT: 17.50
 Area: 186008
 Amount: 0.819697
 Amount Units: ug/ml

Processing Integration Results



RT: 17.39
 Area: 63596
 Amount: 0.274861
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 17-Mar-2020 10:49:49

Audit Action: Assigned New Baseline

Audit Reason: Baseline

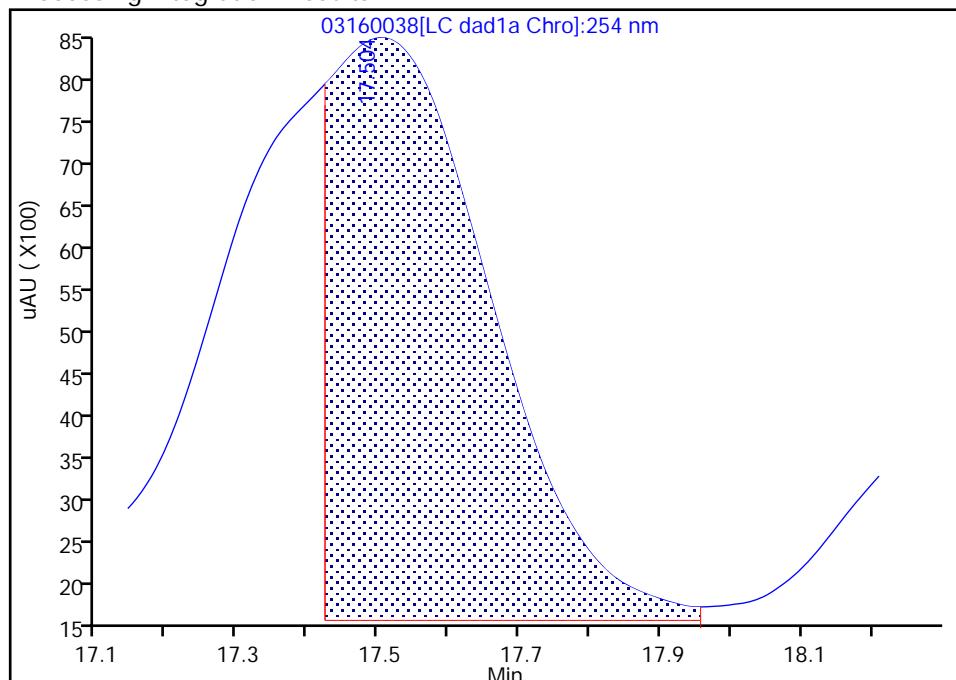
Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\g2_luna\20200316-90087.b\03160038.d
 Injection Date: 17-Mar-2020 08:54:10 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: CCV
 Client ID:
 Operator ID: CB 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

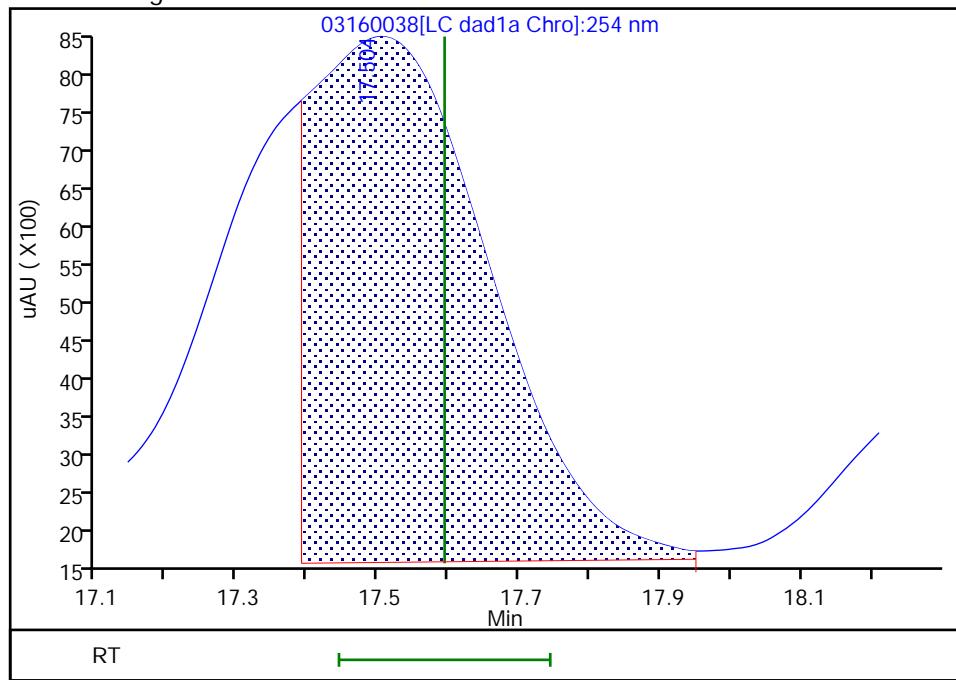
RT: 17.50
 Area: 108453
 Amount: 0.220424
 Amount Units: ug/ml

Processing Integration Results



RT: 17.50
 Area: 120096
 Amount: 0.244453
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 17-Mar-2020 10:49:49

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

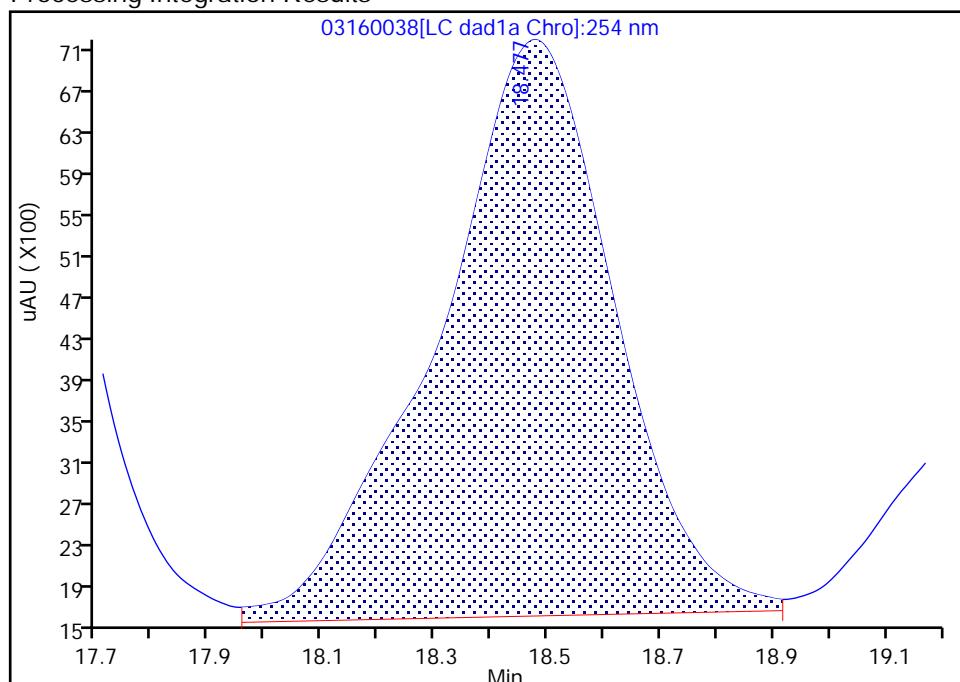
Data File: \\chromna\denver\chromdata\g2_luna\20200316-90087.b\03160038.d
 Injection Date: 17-Mar-2020 08:54:10 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: CCV
 Client ID:
 Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 38
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

19 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

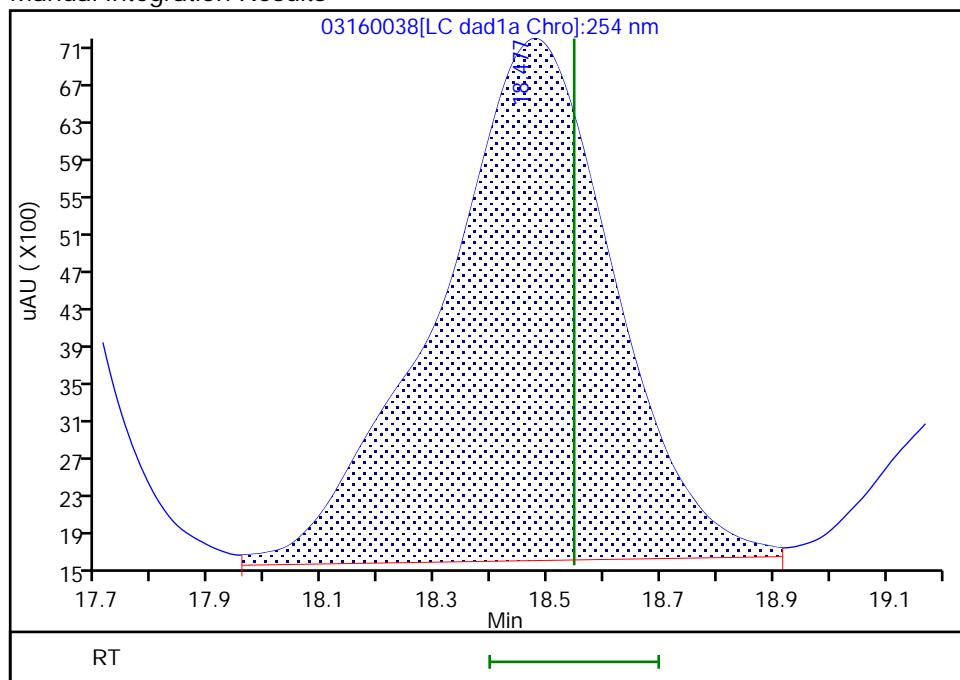
RT: 18.48
 Area: 120782
 Amount: 0.254045
 Amount Units: ug/ml

Processing Integration Results



RT: 18.48
 Area: 119284
 Amount: 0.250786
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 17-Mar-2020 10:49:49

Audit Action: Assigned New Baseline

Audit Reason: Baseline

Eurofins TestAmerica, Denver

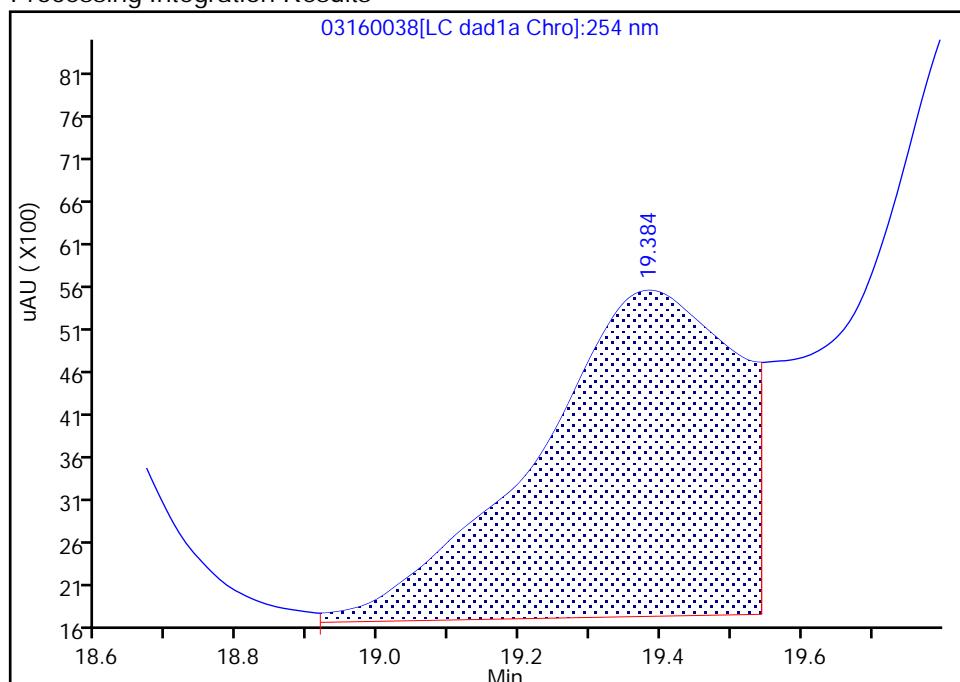
Data File: \\chromna\denver\chromdata\g2_luna\20200316-90087.b\03160038.d
 Injection Date: 17-Mar-2020 08:54:10 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: CCV
 Client ID:
 Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 38
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

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

Signal: 1

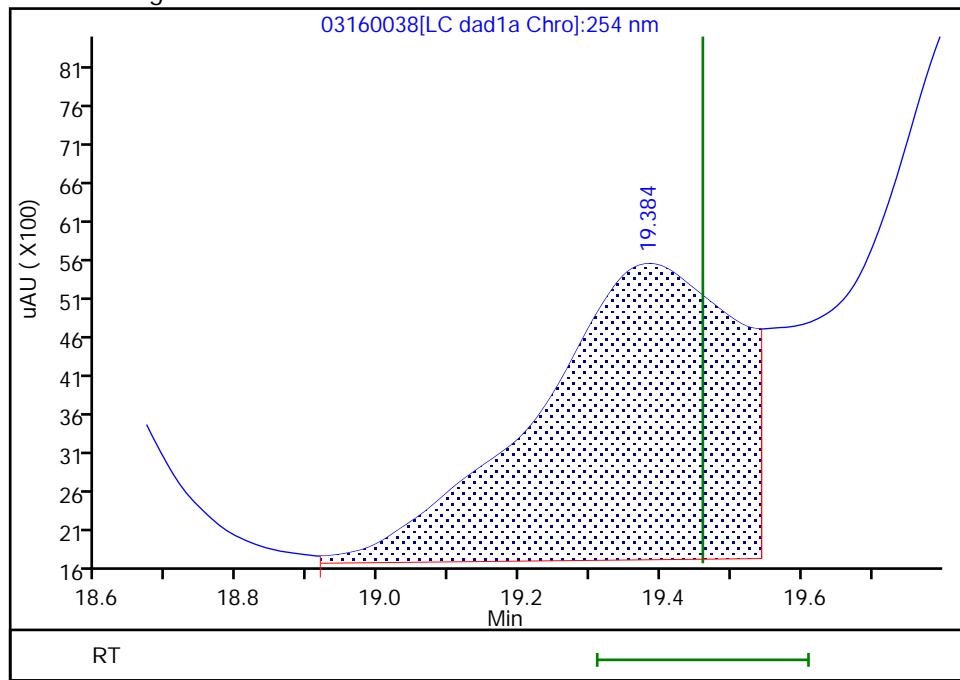
RT: 19.38
 Area: 75143
 Amount: 0.259423
 Amount Units: ug/ml

Processing Integration Results



RT: 19.38
 Area: 75218
 Amount: 0.259692
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 17-Mar-2020 10:49:49

Audit Action: Assigned New Baseline

Audit Reason: Baseline

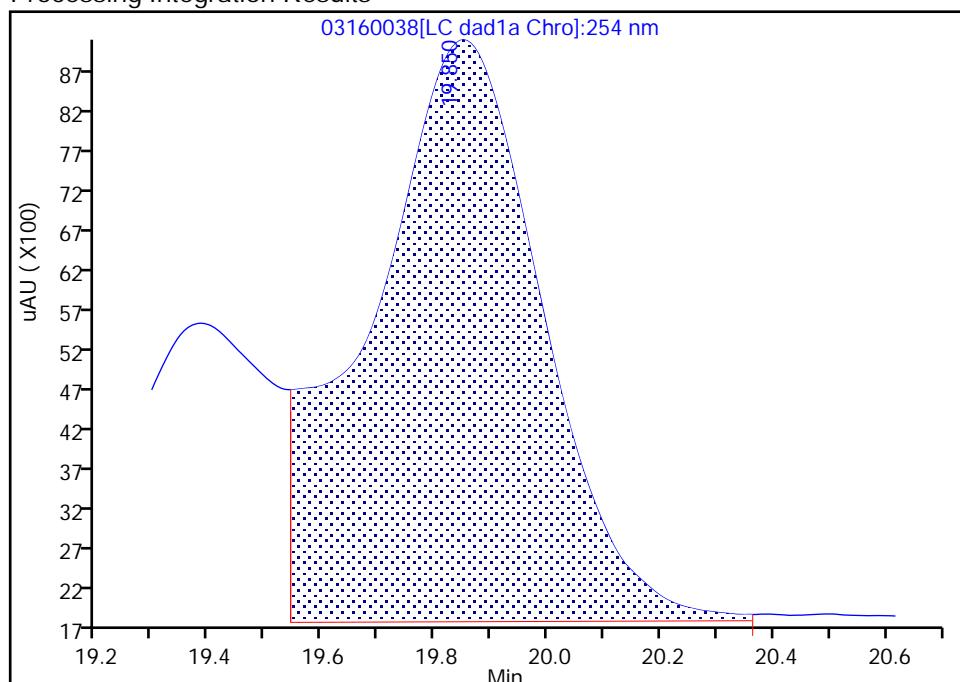
Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\g2_luna\20200316-90087.b\03160038.d
 Injection Date: 17-Mar-2020 08:54:10 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: CCV
 Client ID:
 Operator ID: CB 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

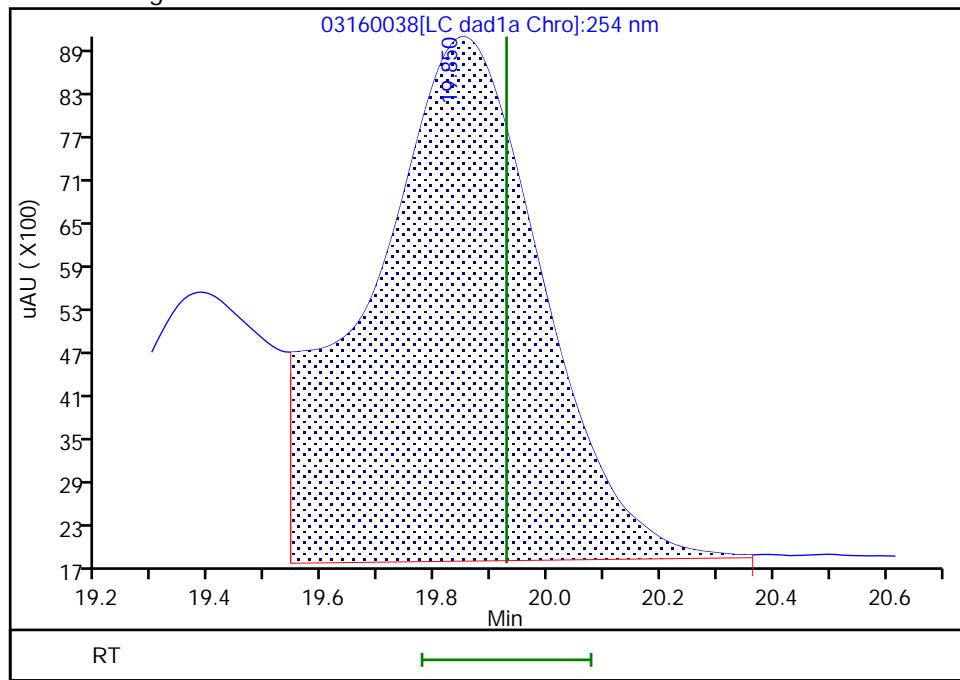
RT: 19.85
 Area: 155835
 Amount: 0.252931
 Amount Units: ug/ml

Processing Integration Results



RT: 19.85
 Area: 155367
 Amount: 0.252141
 Amount Units: ug/ml

Manual Integration Results



Reviewer: beckerc, 17-Mar-2020 10:49:49

Audit Action: Assigned New Baseline

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: CCV 280-488850/39 Calibration Date: 03/17/2020 09:29
Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 03/03/2020 23:16
GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/04/2020 03:21
Lab File ID: 03160039.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	454578	472579		260	250	4.0	15.0
DNX	Ave	327828	343524		262	250	4.8	15.0
MNX	Ave	305766	317638		303	292	3.9	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: CCV 280-488850/39 Calibration Date: 03/17/2020 09:29
Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 03/03/2020 23:16
GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/04/2020 03:21
Lab File ID: 03160039.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.30	5.17	5.47
DNX	6.08	5.94	6.24
MNX	7.52	7.41	7.71

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200316-90087.b\03160039.D
 Lims ID: CCV DMT
 Client ID:
 Sample Type: CCV
 Inject. Date: 17-Mar-2020 09:29:08 ALS Bottle#: 8 Worklist Smp#: 39
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: CCV DMT
 Misc. Info.: 280-0090087-039
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub13
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200316-90087.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 18-Mar-2020 14:50:37 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0307

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.304	5.317	-0.013	118263	0.2503	0.2602	
4 DNX	1	6.077	6.090	-0.013	85967	0.2503	0.2622	
7 MNX	1	7.524	7.557	-0.033	92671	0.2918	0.3031	

Reagents:

8330 DMT_00005 Amount Added: 12.50 Units: uL

Report Date: 18-Mar-2020 14:50:38

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200316-90087.b\\03160039.d

Injection Date: 17-Mar-2020 09:29:08

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: CCV DMT

Worklist Smp#: 39

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

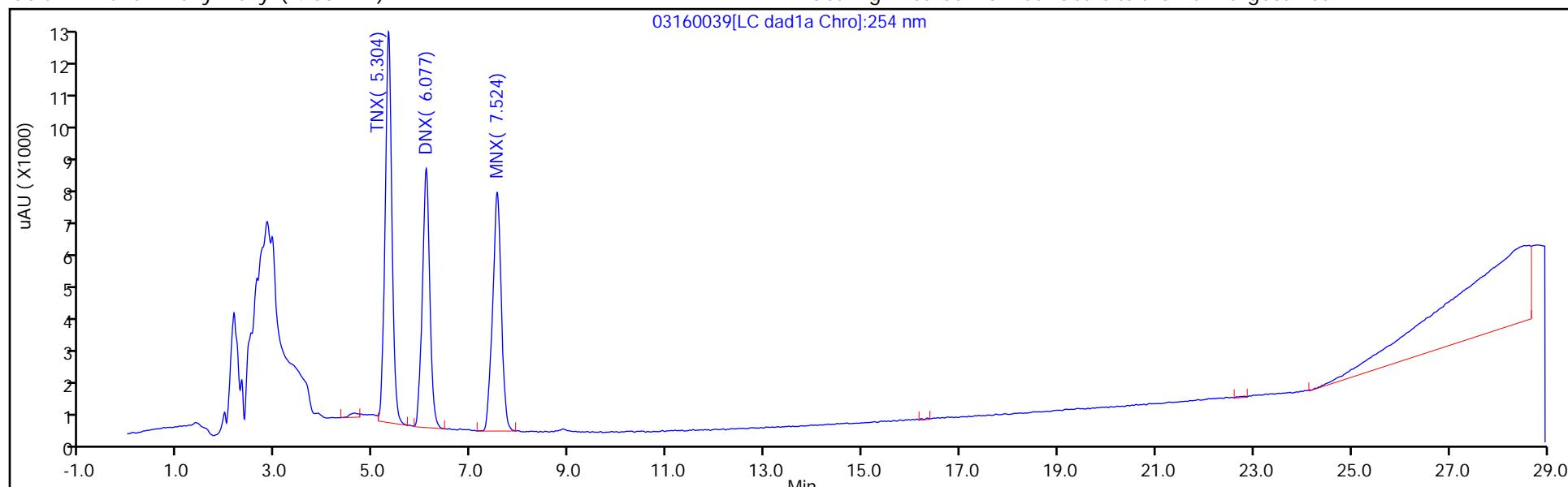
ALS Bottle#: 8

Method: G2_8330_Luna

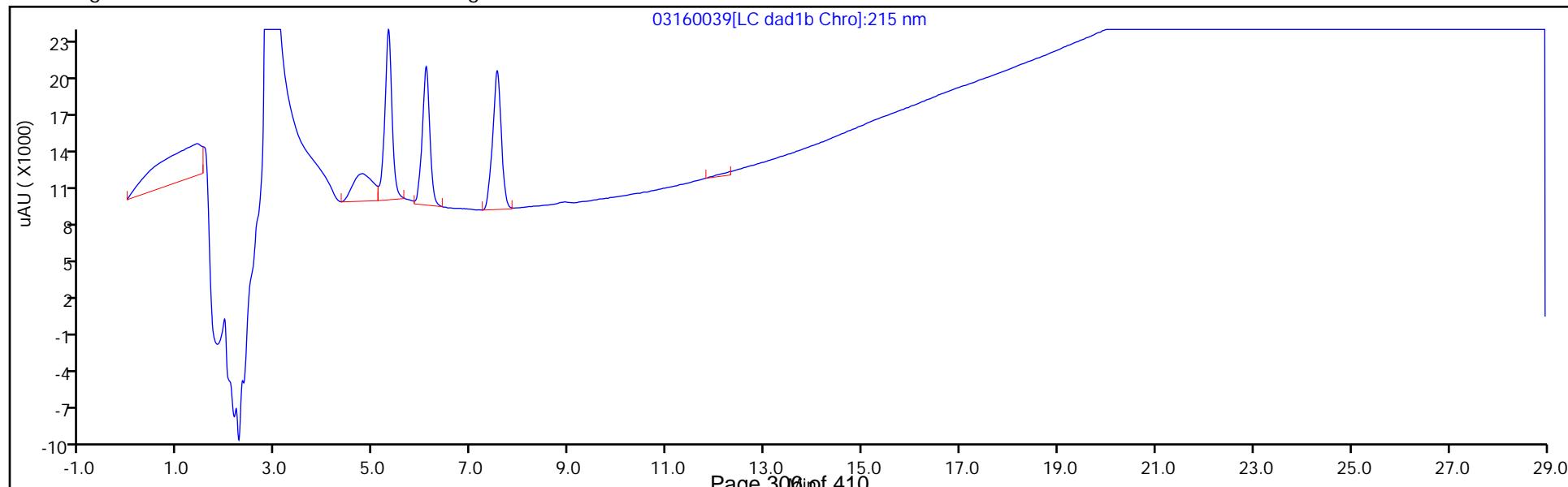
Limit Group: GCSV - 8330

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.: 280-134369-1
SDG No.: _____
Lab Sample ID: CCV 280-488850/50 Calibration Date: 03/17/2020 15:54
Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 03/03/2020 18:01
GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/03/2020 22:06
Lab File ID: 03160050.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Picric acid	Lin2		163832		249	250	-0.4	15.0
HMX	Lin2		184024		255	250	2.0	15.0
RDX	Lin2		226120		257	250	2.8	15.0
Nitrobenzene	Lin2		393625		248	251	-1.3	15.0
1,3-Dinitrobenzene	Lin2		680902		256	251	2.2	15.0
Nitroglycerin	Lin2		162432		2780	2500	11.0	15.0
2-Nitrotoluene	Lin2		284104		306	250	22.4*	15.0
4-Nitrotoluene	Lin2		228136		257	251	2.4	15.0
4-Amino-2,6-dinitrotoluene	Lin2		283740		214	250	-14.6	15.0
3-Nitrotoluene	Lin2		318110		346	250	38.3*	15.0
2-Amino-4,6-dinitrotoluene	Qua		421546		215	251	-14.4	15.0
1,3,5-Trinitrobenzene	Lin2		483752		255	251	1.8	15.0
2,6-Dinitrotoluene	Lin2		273203		236	251	-6.0	15.0
2,4-Dinitrotoluene	Lin2		655171		267	251	6.6	15.0
Tetryl	Lin2		374176		260	251	3.6	15.0
2,4,6-Trinitrotoluene	Lin2		404000		245	251	-2.5	15.0
PETN	Lin1		158482		2710	2500	8.2	15.0
1,2-Dinitrobenzene	Lin2		293372		257	250	2.9	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: CCV 280-488850/50 Calibration Date: 03/17/2020 15:54
Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 03/03/2020 18:01
GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/03/2020 22:06
Lab File ID: 03160050.D

Analyte	RT	RT WINDOW	
		FROM	TO
Picric acid	5.54	5.38	5.68
HMX	6.78	6.65	6.95
RDX	8.89	8.77	9.07
Nitrobenzene	11.83	11.73	12.03
1,3-Dinitrobenzene	15.19	15.10	15.40
Nitroglycerin	15.43	15.34	15.64
2-Nitrotoluene	16.21	16.12	16.42
4-Nitrotoluene	16.49	16.40	16.70
4-Amino-2,6-dinitrotoluene	16.67	16.62	16.92
3-Nitrotoluene	17.43	17.32	17.62
2-Amino-4,6-dinitrotoluene	17.50	17.44	17.74
1,3,5-Trinitrobenzene	18.47	18.40	18.70
2,6-Dinitrotoluene	19.39	19.31	19.61
2,4-Dinitrotoluene	19.86	19.78	20.08
Tetryl	23.08	23.00	23.30
2,4,6-Trinitrotoluene	24.25	24.16	24.46
PETN	24.94	24.84	25.14
1,2-Dinitrobenzene	12.69	12.60	12.90

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200316-90087.b\03160050.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 17-Mar-2020 15:54:02 ALS Bottle#: 7 Worklist Smp#: 50
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: 280-0090087-050
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub6
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200316-90087.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 18-Mar-2020 14:50:50 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0307

First Level Reviewer: beckerc

Date: 18-Mar-2020 14:46:51

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	4.279	4.280	-0.001	120602	0.2500	0.2531	
2 2,4-diamino-6-nitrotoluene	1	4.773	4.780	-0.007	75423	0.2500	0.2620	
5 2,4,6-Trinitrophenol	1	5.539	5.534	0.005	40958	0.2500	0.2489	
6 HMX	1	6.779	6.800	-0.021	46006	0.2500	0.2550	
8 RDX	1	8.886	8.920	-0.034	56530	0.2500	0.2571	
9 Nitrobenzene	1	11.832	11.880	-0.048	98800	0.2510	0.2477	
\$ 10 1,2-Dinitrobenzene	1	12.692	12.753	-0.061	73343	0.2500	0.2572	
11 3,5-Dinitroaniline	1	14.452	14.533	-0.081	139353	0.2500	0.2566	
12 1,3-Dinitrobenzene	1	15.186	15.247	-0.061	170566	0.2505	0.2561	
13 Nitroglycerin	2	15.426	15.493	-0.067	406081	2.50	2.78	M
14 o-Nitrotoluene	1	16.212	16.267	-0.055	71026	0.2500	0.3059	
15 p-Nitrotoluene	1	16.492	16.547	-0.055	57148	0.2505	0.2566	
16 4-Amino-2,6-dinitrotoluene	1	16.672	16.767	-0.095	71006	0.2503	0.2137	
17 m-Nitrotoluene	1	17.426	17.467	-0.041	79607	0.2503	0.3461	M
18 2-Amino-4,6-dinitrotoluene	1	17.499	17.593	-0.094	105808	0.2510	0.2150	M
19 1,3,5-Trinitrobenzene	1	18.472	18.547	-0.075	121180	0.2505	0.2549	
20 2,6-Dinitrotoluene	1	19.392	19.460	-0.068	68574	0.2510	0.2359	
21 2,4-Dinitrotoluene	1	19.859	19.927	-0.068	164448	0.2510	0.2675	
22 Tetryl	1	23.079	23.154	-0.075	93731	0.2505	0.2596	
23 2,4,6-Trinitrotoluene	1	24.246	24.314	-0.068	101404	0.2510	0.2448	
24 PETN	2	24.939	24.987	-0.048	396204	2.50	2.71	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 25.00 Units: uL

8330_ADDs_00023

Amount Added: 12.50 Units: uL

Report Date: 18-Mar-2020 14:50:50

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200316-90087.b\\03160050.d

Injection Date: 17-Mar-2020 15:54:02

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: CCV

Worklist Smp#: 50

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

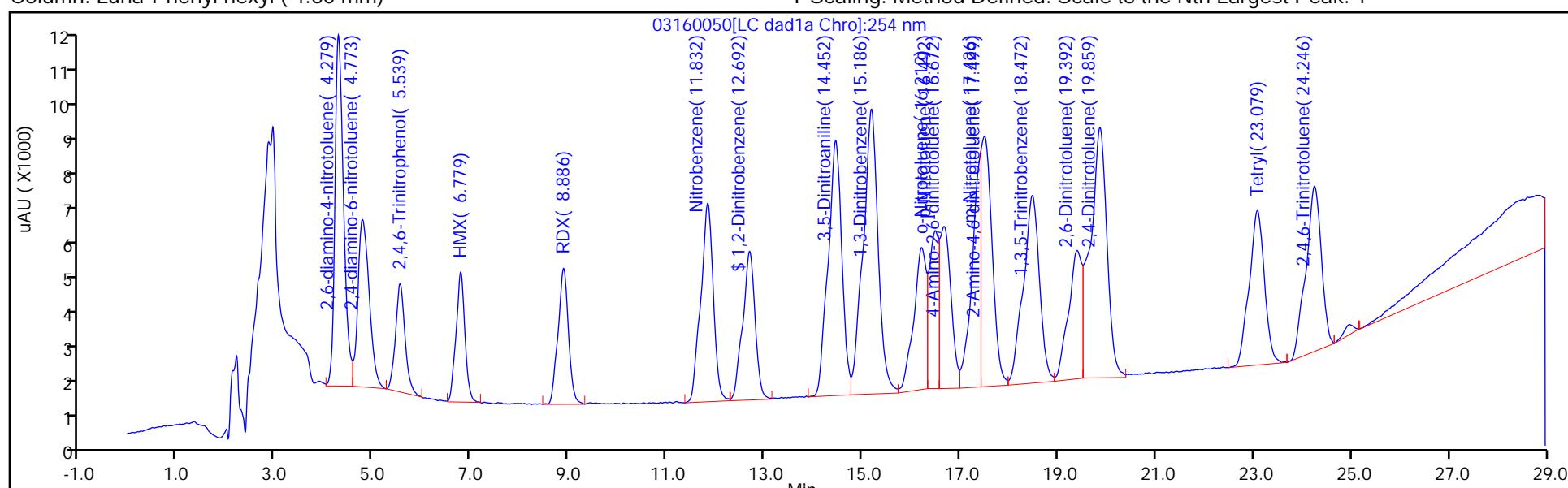
ALS Bottle#: 7

Method: G2_8330_Luna

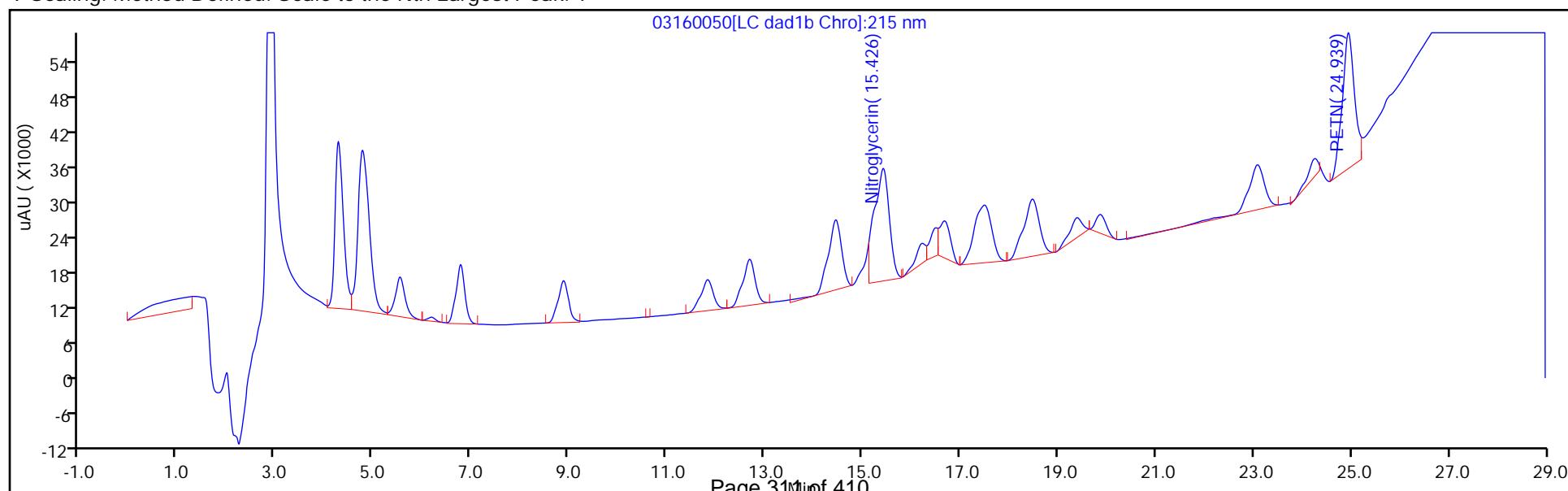
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

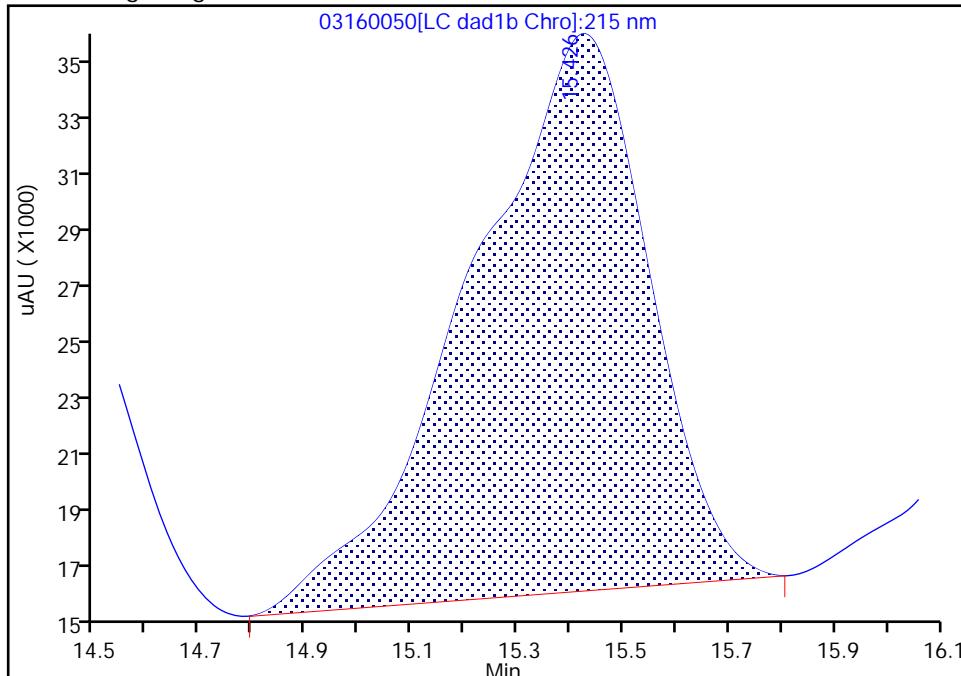
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 Injection Date: 17-Mar-2020 15:54:02 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: CCV
 Client ID:
 Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 50
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Detector LC DAD1B, 215 nm

13 Nitroglycerin, CAS: 55-63-0

Signal: 1

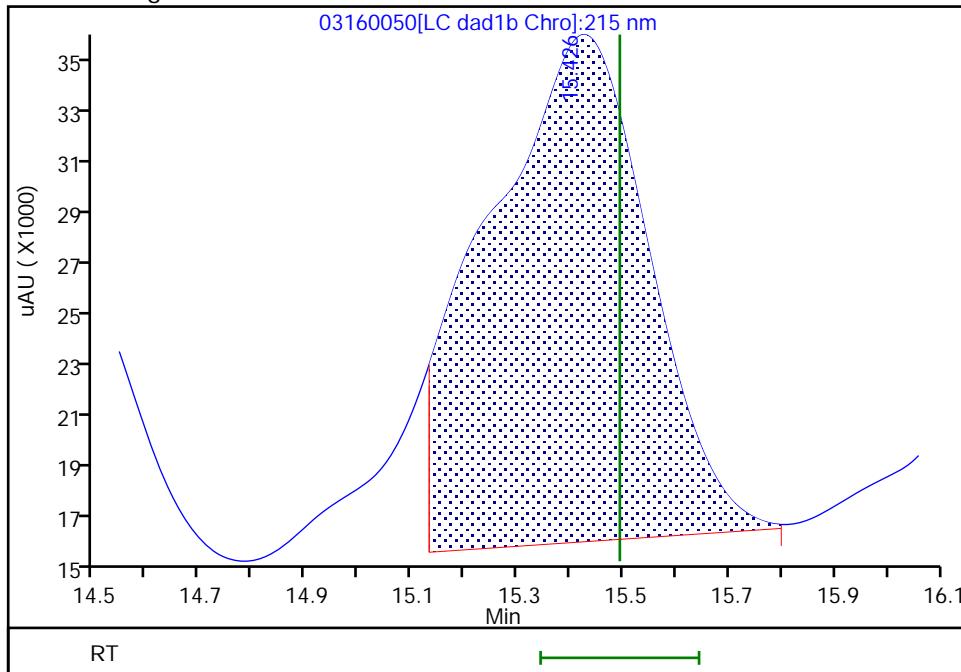
Processing Integration Results

RT: 15.43
 Area: 447800
 Amount: 3.074321
 Amount Units: ug/ml



Manual Integration Results

RT: 15.43
 Area: 406081
 Amount: 2.775659
 Amount Units: ug/ml



Reviewer: beckerc, 18-Mar-2020 14:46:07

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

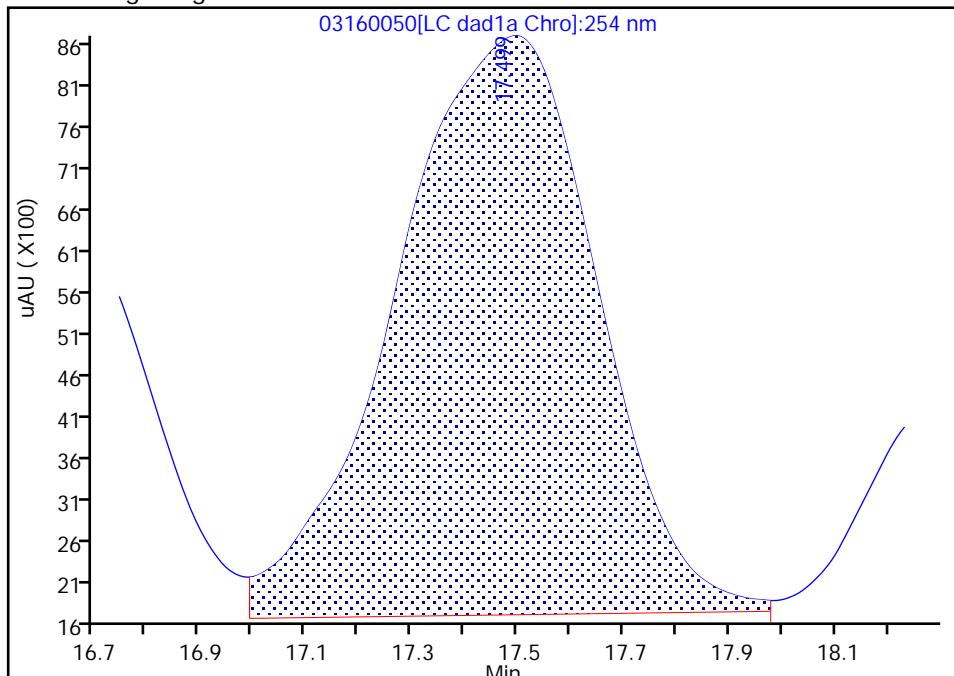
Data File: \\chromna\denver\chromdata\g2_luna\20200316-90087.b\03160050.d
 Injection Date: 17-Mar-2020 15:54:02 Instrument ID: CHHPLC_G2_LUNA
 Lims ID: CCV
 Client ID:
 Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 50
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: G2_8330_Luna Limit Group: GCSV - 8330
 Column: Luna-Phenyl hexyl (4.60 mm) Detector: LC DAD1A, 254 nm

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

Signal: 1

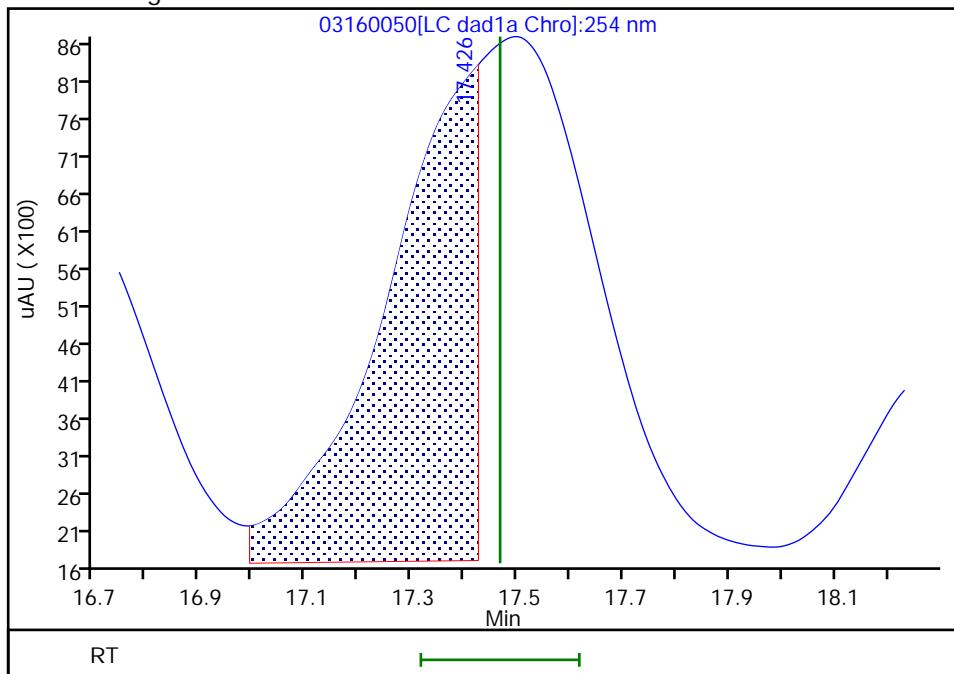
Processing Integration Results

RT: 17.50
 Area: 185406
 Amount: 0.817018
 Amount Units: ug/ml



Manual Integration Results

RT: 17.43
 Area: 79607
 Amount: 0.346124
 Amount Units: ug/ml



Reviewer: beckerc, 18-Mar-2020 14:46:22

Audit Action: Split an Integrated Peak

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1

SDG No.: _____

Lab Sample ID: CCV 280-488850/51 Calibration Date: 03/17/2020 16:29

Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 03/03/2020 23:16

GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/04/2020 03:21

Lab File ID: 03160051.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	454578	464595		256	250	2.2	15.0
DNX	Ave	327828	339980		260	250	3.7	15.0
MNX	Ave	305766	316483		302	292	3.5	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: CCV 280-488850/51 Calibration Date: 03/17/2020 16:29
Instrument ID: CHHPLC_G2_LUNA Calib Start Date: 03/03/2020 23:16
GC Column: Luna-phenylhex ID: 4.60 (mm) Calib End Date: 03/04/2020 03:21
Lab File ID: 03160051.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	5.32	5.17	5.47
DNX	6.08	5.94	6.24
MNX	7.54	7.41	7.71

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\G2_LUNA\20200316-90087.b\03160051.D
 Lims ID: CCV DMT
 Client ID:
 Sample Type: CCV
 Inject. Date: 17-Mar-2020 16:29:00 ALS Bottle#: 8 Worklist Smp#: 51
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: CCV DMT
 Misc. Info.: 280-0090087-051
 Operator ID: CB Instrument ID: CHHPLC_G2_LUNA
 Sublist: chrom-G2_8330_Luna*sub13
 Method: \\chromna\Denver\ChromData\G2_LUNA\20200316-90087.b\G2_8330_Luna.m
 Limit Group: GCSV - 8330
 Last Update: 18-Mar-2020 14:50:51 Calib Date: 04-Mar-2020 03:21:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\G2_LUNA\20200303-89749.b\03030023.D
 Column 1 : Luna-Phenyl hexyl (4.60 mm) Det: LC DAD1A, 254 nm
 Process Host: CTX0307

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
3 TNX	1	5.317	5.317	0.000	116265	0.2503	0.2558	
4 DNX	1	6.084	6.090	-0.006	85080	0.2503	0.2595	
7 MNX	1	7.537	7.557	-0.020	92334	0.2918	0.3020	

Reagents:

8330 DMT_00005 Amount Added: 12.50 Units: uL

Report Date: 18-Mar-2020 14:50:51

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\g2_luna\\20200316-90087.b\\03160051.d

Injection Date: 17-Mar-2020 16:29:00

Instrument ID: CHHPLC_G2_LUNA

Operator ID: CB

Lims ID: CCV DMT

Worklist Smp#: 51

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

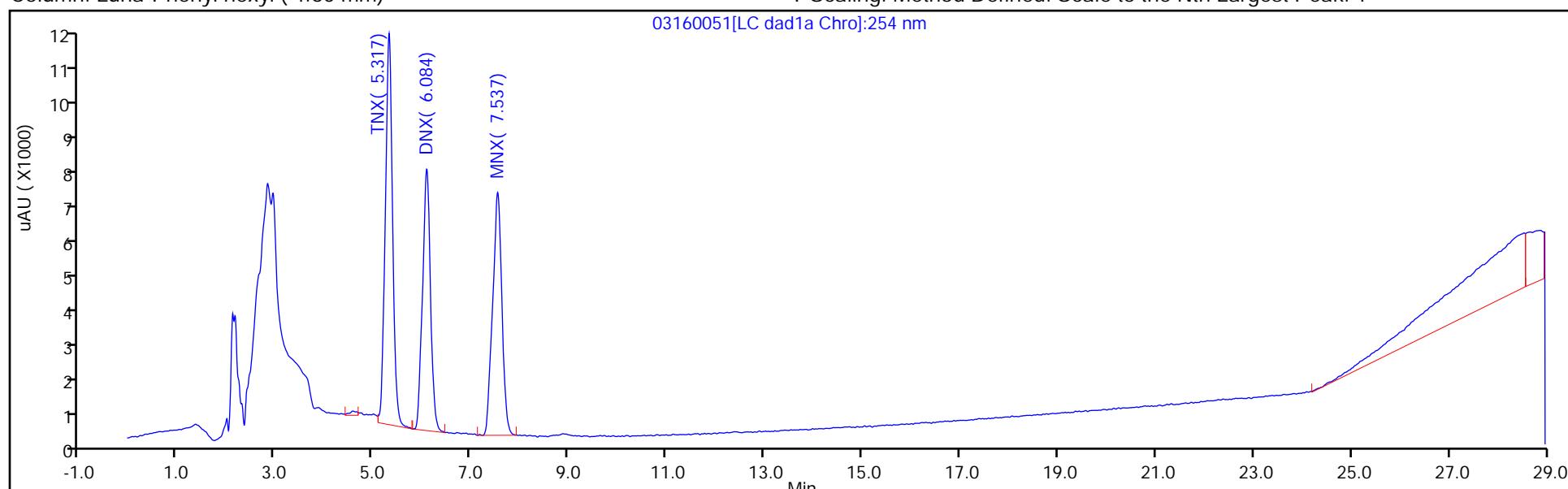
ALS Bottle#: 8

Method: G2_8330_Luna

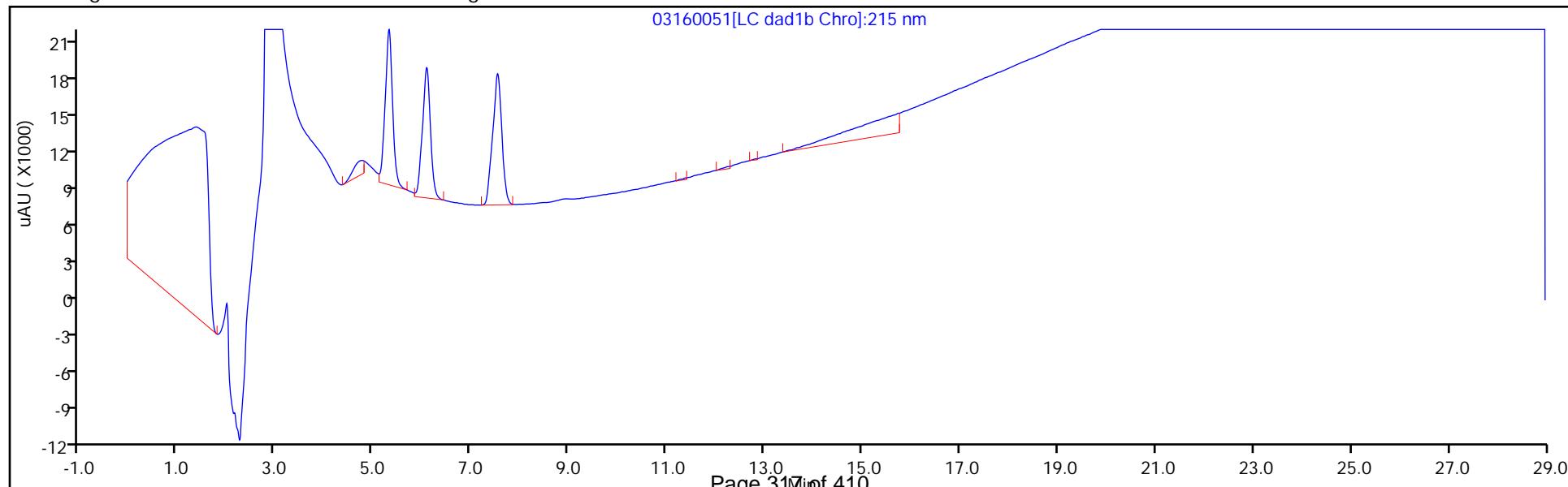
Limit Group: GCSV - 8330

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.: 280-134369-1
SDG No.: _____
Lab Sample ID: ICV 280-487658/15 Calibration Date: 03/04/2020 17:10
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 14:07
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 16:47
Lab File ID: 03040015.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	89178	84438		379	400	-5.3	15.0
RDX	Ave	117869	105313		357	400	-10.7	15.0
Picric acid	Ave	87247	85318		391	400	-2.2	15.0
1,3,5-Trinitrobenzene	Ave	243459	237765		391	400	-2.3	15.0
1,3-Dinitrobenzene	Ave	324251	307115		379	400	-5.3	15.0
Nitrobenzene	Ave	212689	202485		381	400	-4.8	15.0
Tetryl	Ave	193870	175735		363	400	-9.4	15.0
Nitroglycerin	Ave	71797	66747		3720	4000	-7.0	15.0
2,4,6-Trinitrotoluene	Ave	220911	205103		371	400	-7.2	15.0
4-Amino-2,6-dinitrotoluene	Ave	173468	158943		367	400	-8.4	15.0
2-Amino-4,6-dinitrotoluene	Ave	217539	202095		372	400	-7.1	15.0
2,6-Dinitrotoluene	Ave	159404	150648		378	400	-5.5	15.0
2,4-Dinitrotoluene	Ave	321164	290578		362	400	-9.5	15.0
2-Nitrotoluene	Ave	143838	128300		357	400	-10.8	15.0
4-Nitrotoluene	Ave	120299	111828		372	400	-7.0	15.0
3-Nitrotoluene	Ave	154244	144728		375	400	-6.2	15.0
PETN	Ave	79456	76256		3840	4000	-4.0	15.0
1,2-Dinitrobenzene	Ave	146215	131020		358	400	-10.4	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: ICV 280-487658/15 Calibration Date: 03/04/2020 17:10
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 14:07
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 16:47
Lab File ID: 03040015.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.68	6.53	6.83
RDX	7.75	7.60	7.90
Picric acid	8.06	7.91	8.21
1,3,5-Trinitrobenzene	8.88	8.73	9.03
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	11.62	11.52	11.72
2,6-Dinitrotoluene	11.79	11.69	11.89
2,4-Dinitrotoluene	11.98	11.88	12.08
2-Nitrotoluene	12.83	12.68	12.98
4-Nitrotoluene	13.27	13.12	13.42
3-Nitrotoluene	13.86	13.71	14.01
PETN	14.97	14.82	15.12
1,2-Dinitrobenzene	8.71	8.56	8.86

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040015.D
 Lims ID: ICV MAIN
 Client ID:
 Sample Type: ICV
 Inject. Date: 04-Mar-2020 17:10:41 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 100.0 uL Dil. Factor: 1.0000
 Sample Info: ICV MAIN
 Misc. Info.: 280-0089779-015
 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 10:25:10 Calib Date: 04-Mar-2020 16:47:48
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Denver\ChromData\CHHPLC_X\20200304-89779.b\03040014.D
 Column 1 : UltraCarb5uODS (20) (4.60 mm) Det: LC DAD1B, 254 nm
 Process Host: CTX0308

First Level Reviewer: beckerc Date: 05-Mar-2020 08:23:55

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.683	6.683	0.000	33775	0.4000	0.3787	M
7 RDX	1	7.750	7.750	0.000	42125	0.4000	0.3574	
8 2,4,6-Trinitrophenol	1	8.056	8.056	0.000	34127	0.4000	0.3912	
\$ 9 1,2-Dinitrobenzene	1	8.710	8.710	0.000	52408	0.4000	0.3584	
10 1,3,5-Trinitrobenzene	1	8.883	8.883	0.000	95106	0.4000	0.3906	
11 1,3-Dinitrobenzene	1	9.529	9.529	0.000	122846	0.4000	0.3789	
12 Nitrobenzene	1	9.916	9.916	0.000	80994	0.4000	0.3808	
14 Tetryl	1	10.216	10.216	0.000	70294	0.4000	0.3626	
15 Nitroglycerin	2	10.729	10.729	0.000	266988	4.00	3.72	
16 2,4,6-Trinitrotoluene	1	11.183	11.183	0.000	82041	0.4000	0.3714	
17 4-Amino-2,6-dinitrotoluene	1	11.336	11.336	0.000	63577	0.4000	0.3665	
18 2-Amino-4,6-dinitrotoluene	1	11.623	11.623	0.000	80838	0.4000	0.3716	
19 2,6-Dinitrotoluene	1	11.789	11.789	0.000	60259	0.4000	0.3780	
20 2,4-Dinitrotoluene	1	11.983	11.983	0.000	116231	0.4000	0.3619	
21 o-Nitrotoluene	1	12.829	12.829	0.000	51320	0.4000	0.3568	
22 p-Nitrotoluene	1	13.269	13.269	0.000	44731	0.4000	0.3718	
23 m-Nitrotoluene	1	13.863	13.863	0.000	57891	0.4000	0.3753	
24 PETN	2	14.969	14.969	0.000	305025	4.00	3.84	

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: 06-Mar-2020 10:25:10

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040015.d

Injection Date: 04-Mar-2020 17:10:41

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: ICV MAIN

Worklist Smp#: 15

Client ID:

Injection Vol: 100.0 μ L

Dil. Factor: 1.0000

ALS Bottle#: 15

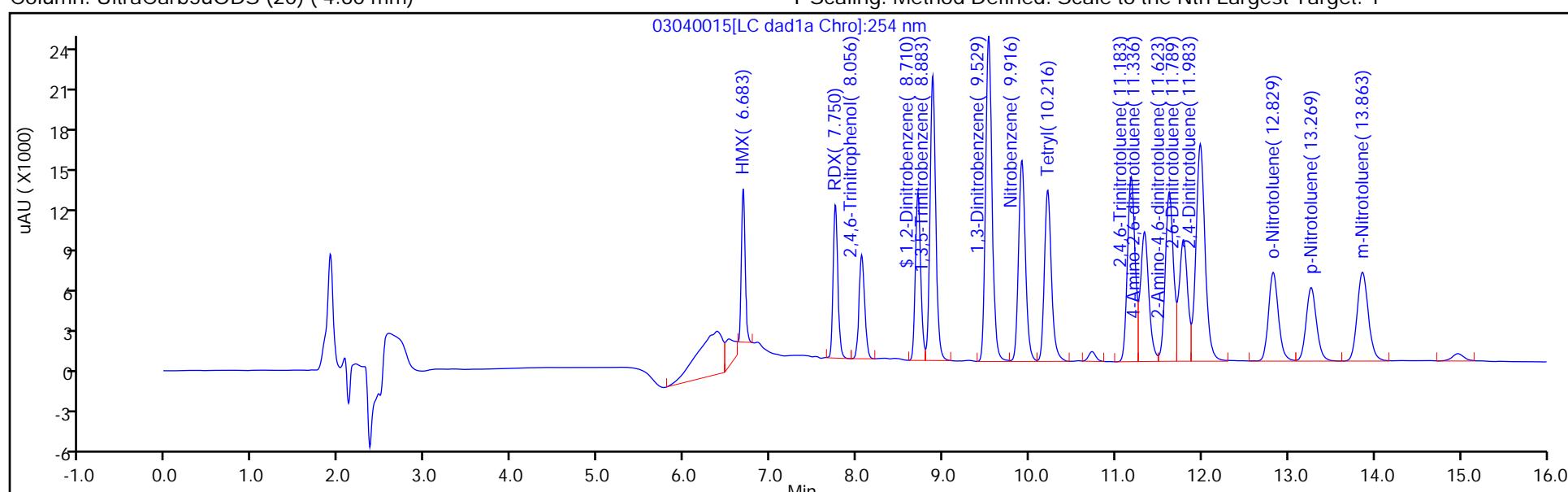
Method: 8330 X

Limit Group: GCSV - 8330

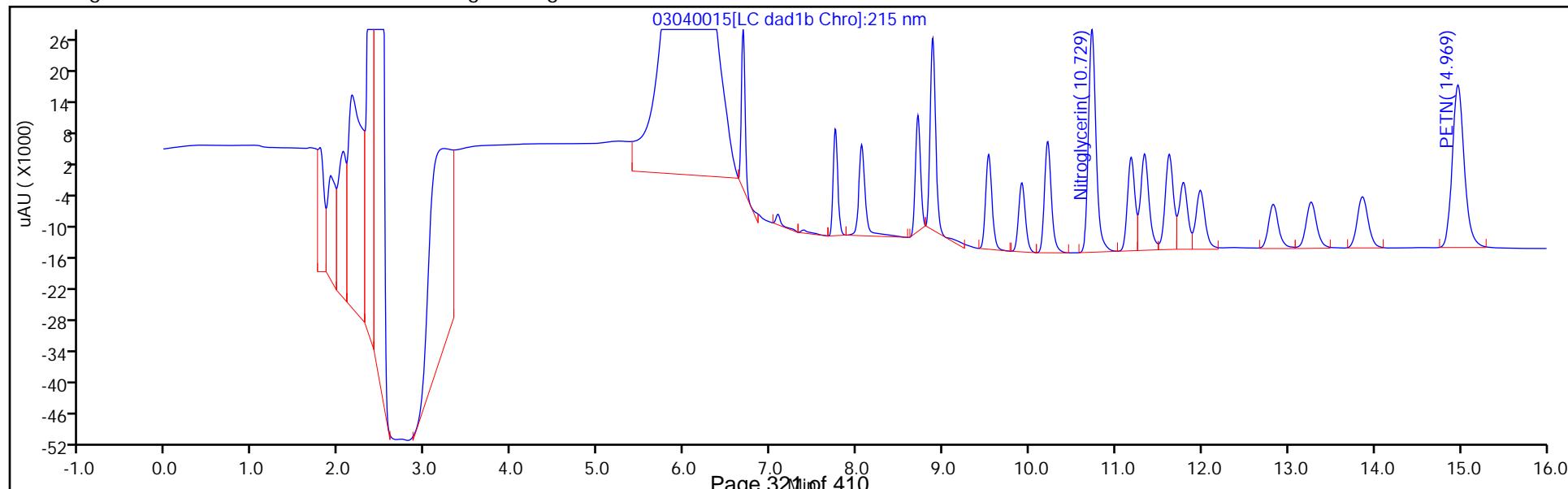
ARE BOTTOM:

Method: 3888_XS

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

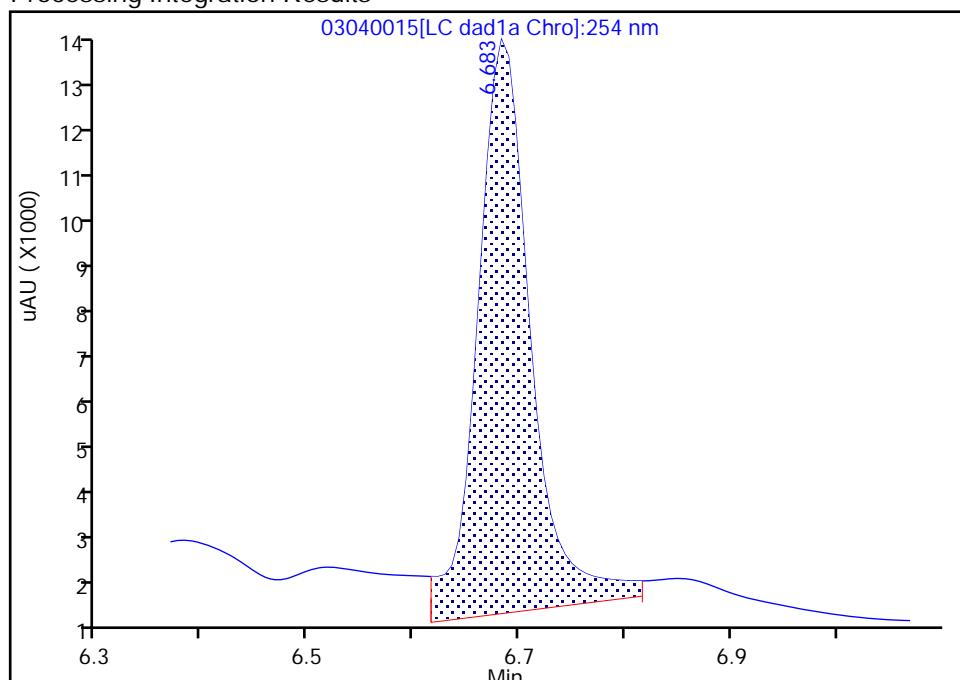
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 Injection Date: 04-Mar-2020 17:10:41 Instrument ID: CHHPLC_X3
 Lims ID: ICV MAIN
 Client ID:
 Operator ID: CB ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

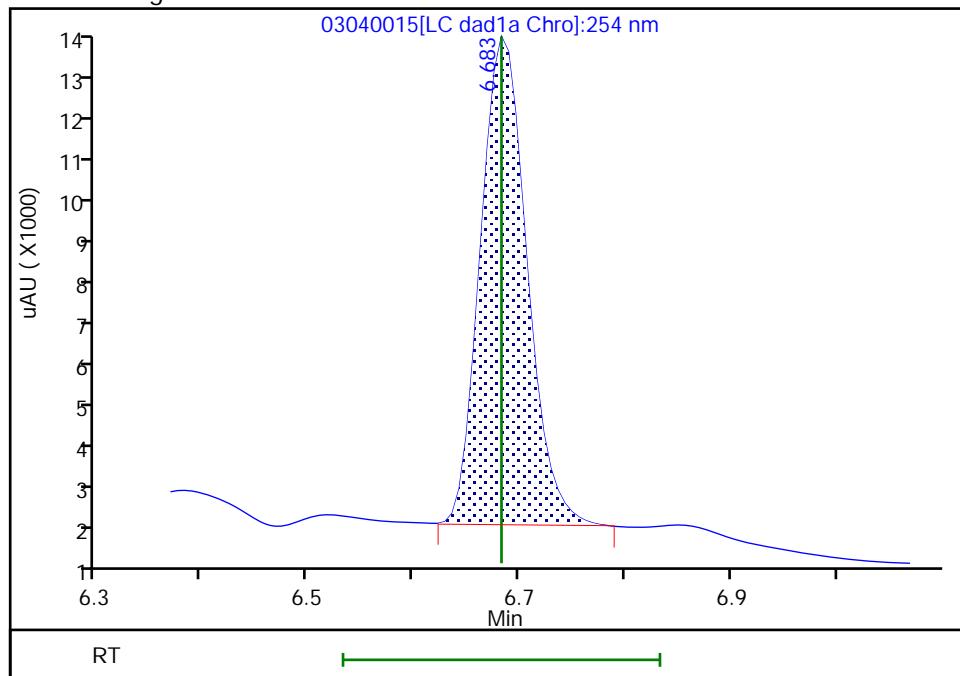
RT: 6.68
 Area: 41329
 Amount: 0.463446
 Amount Units: ug/mL

Processing Integration Results



RT: 6.68
 Area: 33775
 Amount: 0.378739
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 05-Mar-2020 08:23:51

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
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.: 280-134369-1
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

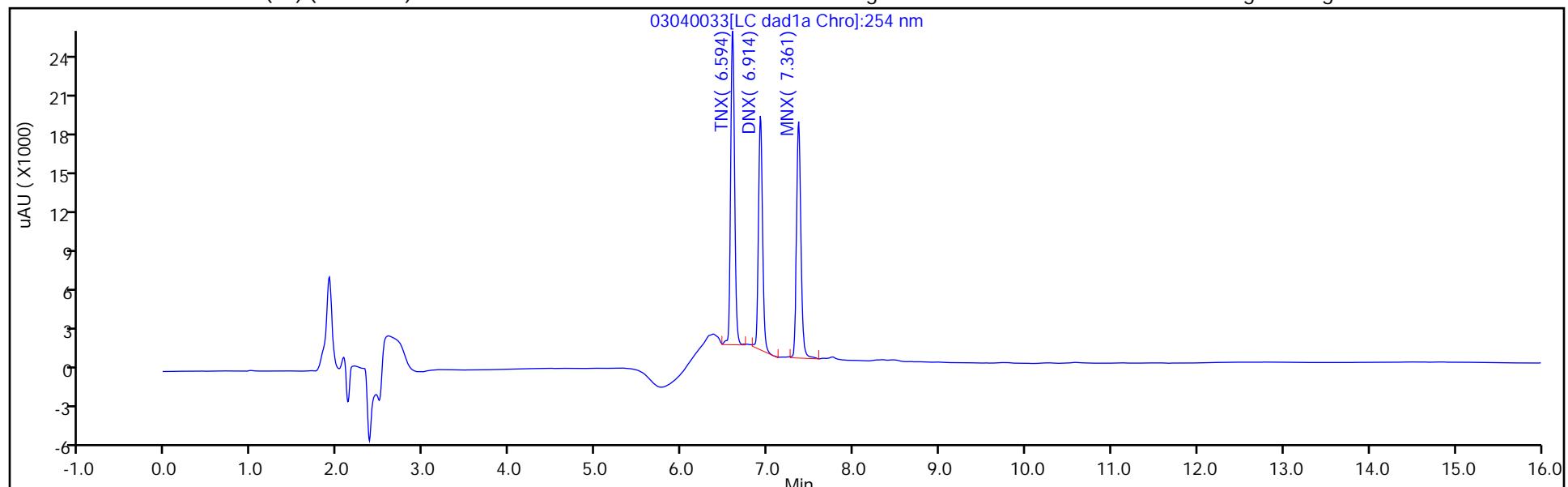
ALS Bottle#: 33

Method: 8330_X3

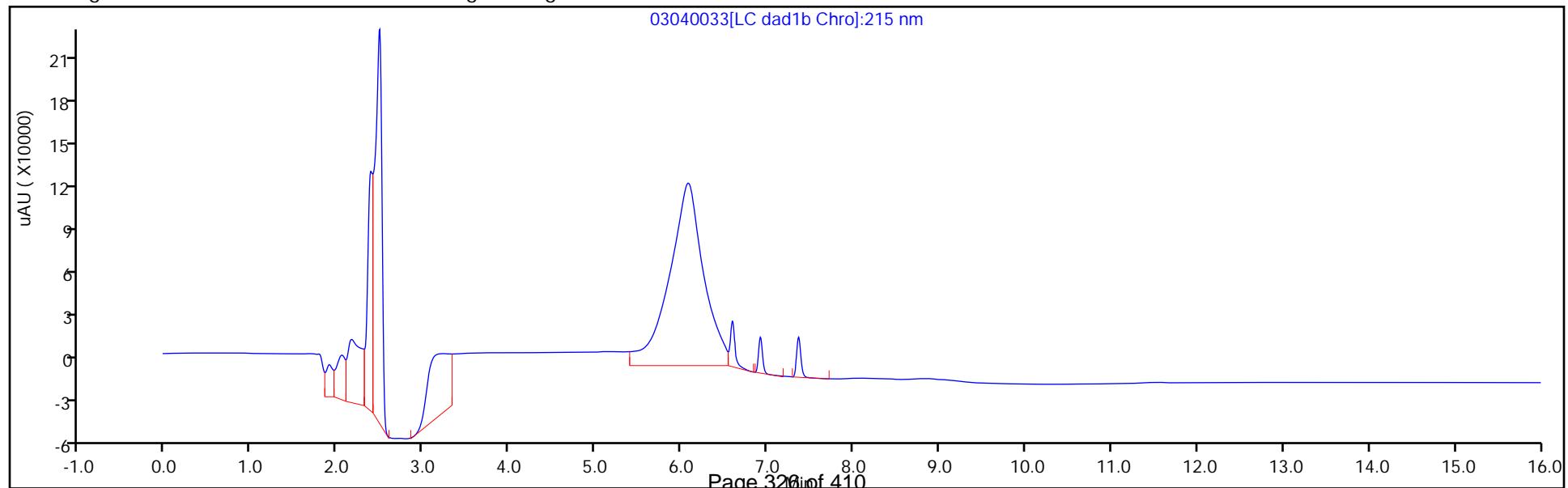
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

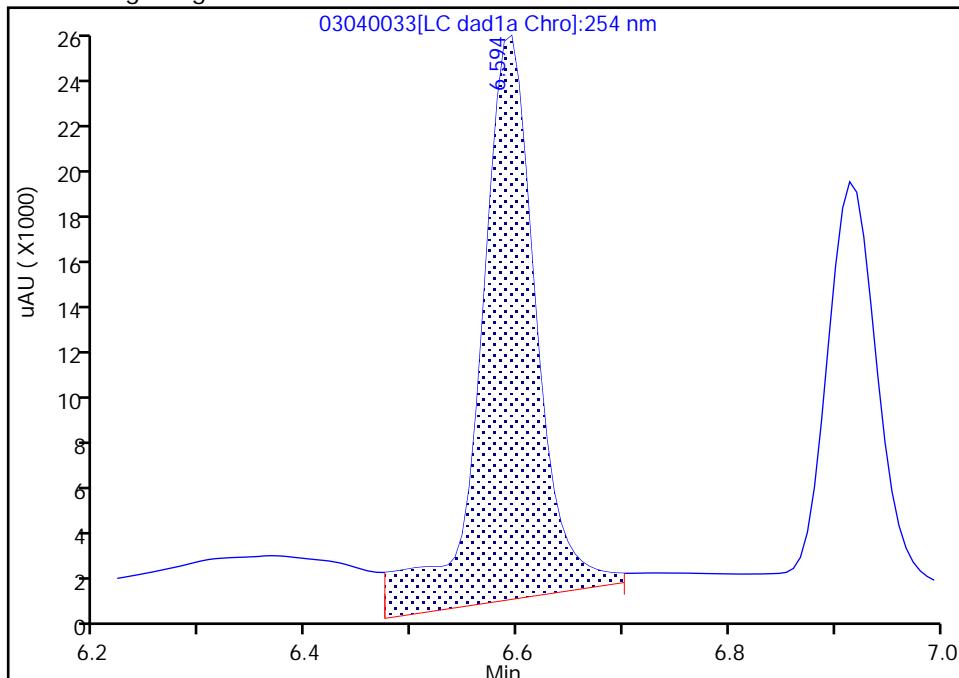
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040033.d
 Injection Date: 05-Mar-2020 00:03:48 Instrument ID: CHHPLC_X3
 Lims ID: ICV DMT
 Client ID:
 Operator ID: CB ALS Bottle#: 33 Worklist Smp#: 33
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

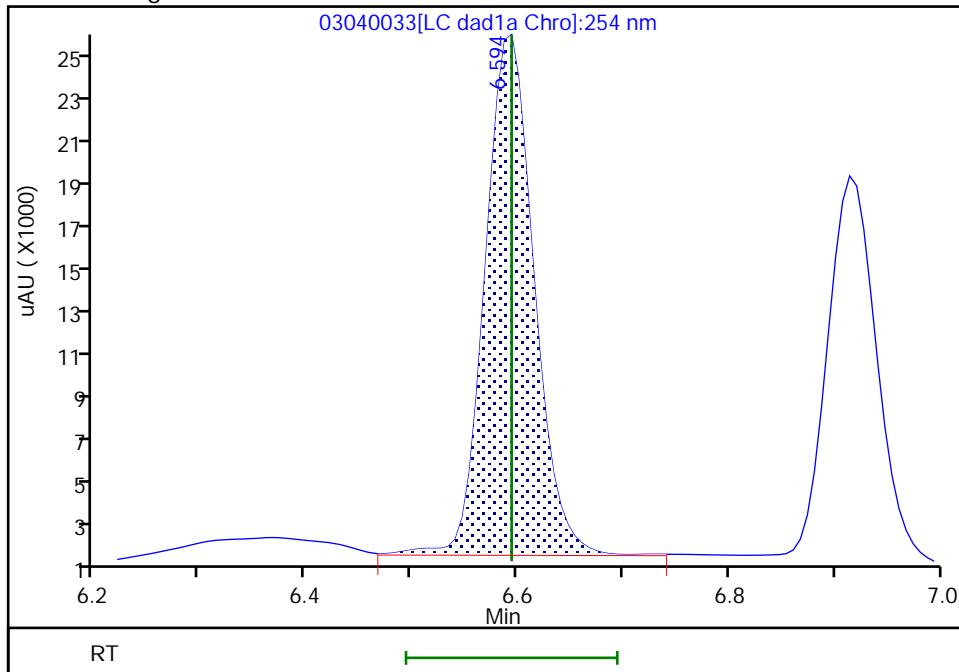
Processing Integration Results

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

Eurofins TestAmerica, Denver

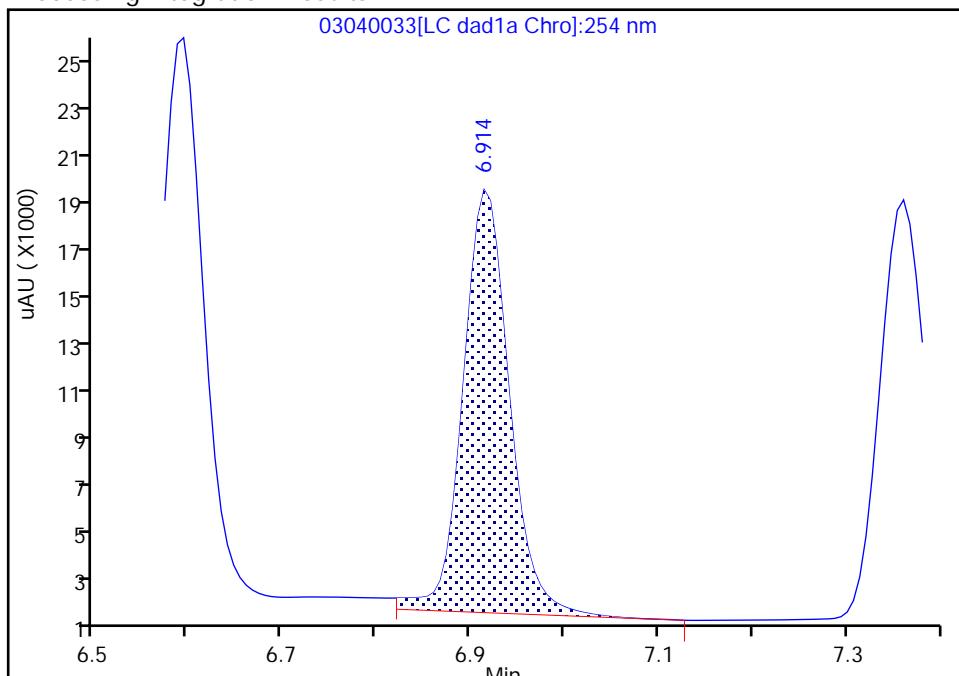
Data File: \\chromna\denver\chromdata\chhplc_x\20200304-89779.b\03040033.d
 Injection Date: 05-Mar-2020 00:03:48 Instrument ID: CHHPLC_X3
 Lims ID: ICV DMT
 Client ID:
 Operator ID: CB ALS Bottle#: 33 Worklist Smp#: 33
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

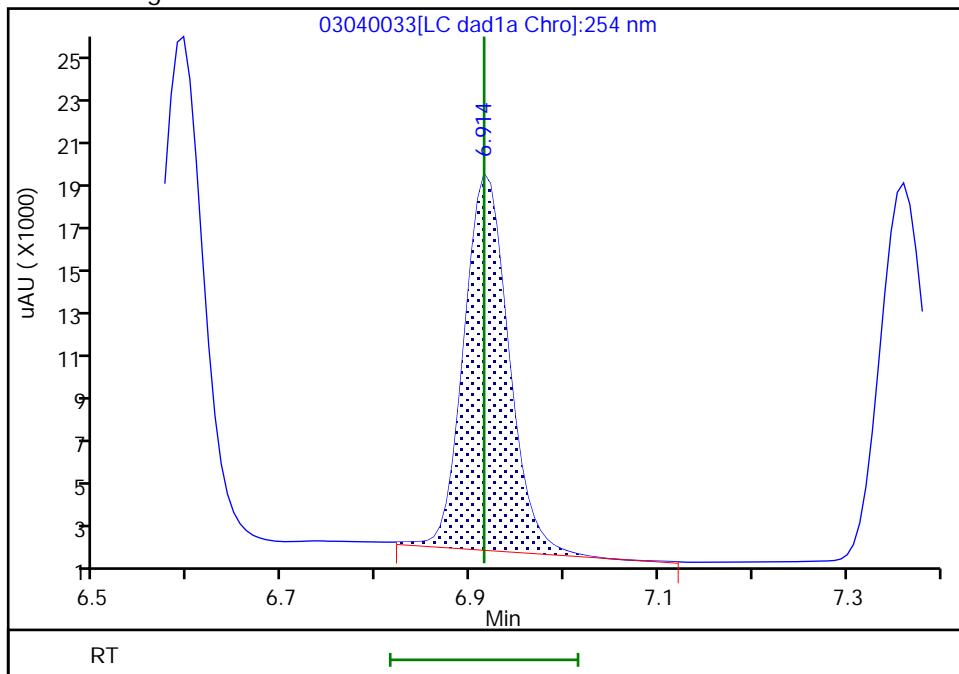
Processing Integration Results

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.: 280-134369-1
SDG No.: _____
Lab Sample ID: CCV 280-488648/7 Calibration Date: 03/13/2020 15:43
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 14:07
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 16:47
Lab File ID: 03130007.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	89178	90520		254	250	1.5	15.0
RDX	Ave	117869	112016		238	250	-5.0	15.0
Picric acid	Ave	87247	84636		243	250	-3.0	15.0
1,3,5-Trinitrobenzene	Ave	243459	235713		243	251	-3.2	15.0
1,3-Dinitrobenzene	Ave	324251	316611		245	251	-2.4	15.0
Nitrobenzene	Ave	212689	206028		243	251	-3.1	15.0
Tetryl	Ave	193870	184335		238	251	-4.9	15.0
Nitroglycerin	Ave	71797	72379		2520	2500	0.8	15.0
2,4,6-Trinitrotoluene	Ave	220911	214279		243	251	-3.0	15.0
4-Amino-2,6-dinitrotoluene	Ave	173468	168164		243	250	-3.1	15.0
2-Amino-4,6-dinitrotoluene	Ave	217539	211255		244	251	-2.9	15.0
2,6-Dinitrotoluene	Ave	159404	153701		242	251	-3.6	15.0
2,4-Dinitrotoluene	Ave	321164	313777		245	251	-2.3	15.0
2-Nitrotoluene	Ave	143838	134260		233	250	-6.7	15.0
4-Nitrotoluene	Ave	120299	114044		237	251	-5.2	15.0
3-Nitrotoluene	Ave	154244	147085		239	250	-4.6	15.0
PETN	Ave	79456	78717		2480	2500	-0.9	15.0
1,2-Dinitrobenzene	Ave	146215	140820		241	250	-3.7	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: CCV 280-488648/7 Calibration Date: 03/13/2020 15:43
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 14:07
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 16:47
Lab File ID: 03130007.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.69	6.54	6.84
RDX	7.76	7.61	7.91
Picric acid	8.09	7.94	8.24
1,3,5-Trinitrobenzene	8.89	8.74	9.04
1,3-Dinitrobenzene	9.54	9.39	9.69
Nitrobenzene	9.93	9.78	10.08
Tetryl	10.23	10.08	10.38
Nitroglycerin	10.74	10.59	10.89
2,4,6-Trinitrotoluene	11.20	11.10	11.30
4-Amino-2,6-dinitrotoluene	11.36	11.26	11.46
2-Amino-4,6-dinitrotoluene	11.64	11.54	11.74
2,6-Dinitrotoluene	11.80	11.70	11.90
2,4-Dinitrotoluene	12.00	11.90	12.10
2-Nitrotoluene	12.84	12.69	12.99
4-Nitrotoluene	13.27	13.12	13.42
3-Nitrotoluene	13.86	13.71	14.01
PETN	14.96	14.81	15.11
1,2-Dinitrobenzene	8.72	8.57	8.87

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\03130007.D
 Lims ID: CCV INT
 Client ID:
 Sample Type: CCV
 Inject. Date: 13-Mar-2020 15:43:22 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 100.0 uL Dil. Factor: 1.0000
 Sample Info: CCV INT
 Misc. Info.: 280-0090034-007
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 16-Mar-2020 12:00:53 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: CTX0303

First Level Reviewer: beckerc

Date:

16-Mar-2020 10:41:36

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.691	6.691	0.000	22630	0.2500	0.2538	M
7 RDX	1	7.758	7.758	0.000	28004	0.2500	0.2376	
8 2,4,6-Trinitrophenol	1	8.091	8.091	0.000	21159	0.2500	0.2425	
\$ 9 1,2-Dinitrobenzene	1	8.718	8.718	0.000	35205	0.2500	0.2408	
10 1,3,5-Trinitrobenzene	1	8.891	8.891	0.000	59046	0.2505	0.2425	
11 1,3-Dinitrobenzene	1	9.544	9.544	0.000	79311	0.2505	0.2446	
12 Nitrobenzene	1	9.931	9.931	0.000	51713	0.2510	0.2431	
14 Tetryl	1	10.231	10.231	0.000	46176	0.2505	0.2382	
15 Nitroglycerin	2	10.744	10.744	0.000	180947	2.50	2.52	
16 2,4,6-Trinitrotoluene	1	11.197	11.197	0.000	53784	0.2510	0.2435	
17 4-Amino-2,6-dinitrotoluene	1	11.357	11.357	0.000	42083	0.2503	0.2426	
18 2-Amino-4,6-dinitrotoluene	1	11.644	11.644	0.000	53025	0.2510	0.2437	
19 2,6-Dinitrotoluene	1	11.804	11.804	0.000	38579	0.2510	0.2420	
20 2,4-Dinitrotoluene	1	11.997	11.997	0.000	78758	0.2510	0.2452	
21 o-Nitrotoluene	1	12.837	12.837	0.000	33565	0.2500	0.2334	
22 p-Nitrotoluene	1	13.271	13.271	0.000	28568	0.2505	0.2375	
23 m-Nitrotoluene	1	13.864	13.864	0.000	36808	0.2503	0.2386	
24 PETN	2	14.964	14.964	0.000	196793	2.50	2.48	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 25.00

Units: uL

Report Date: 16-Mar-2020 12:00:54

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200313-90034.b\\03130007.d

Injection Date: 13-Mar-2020 15:43:22

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: CCV INT

Worklist Smp#: 7

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

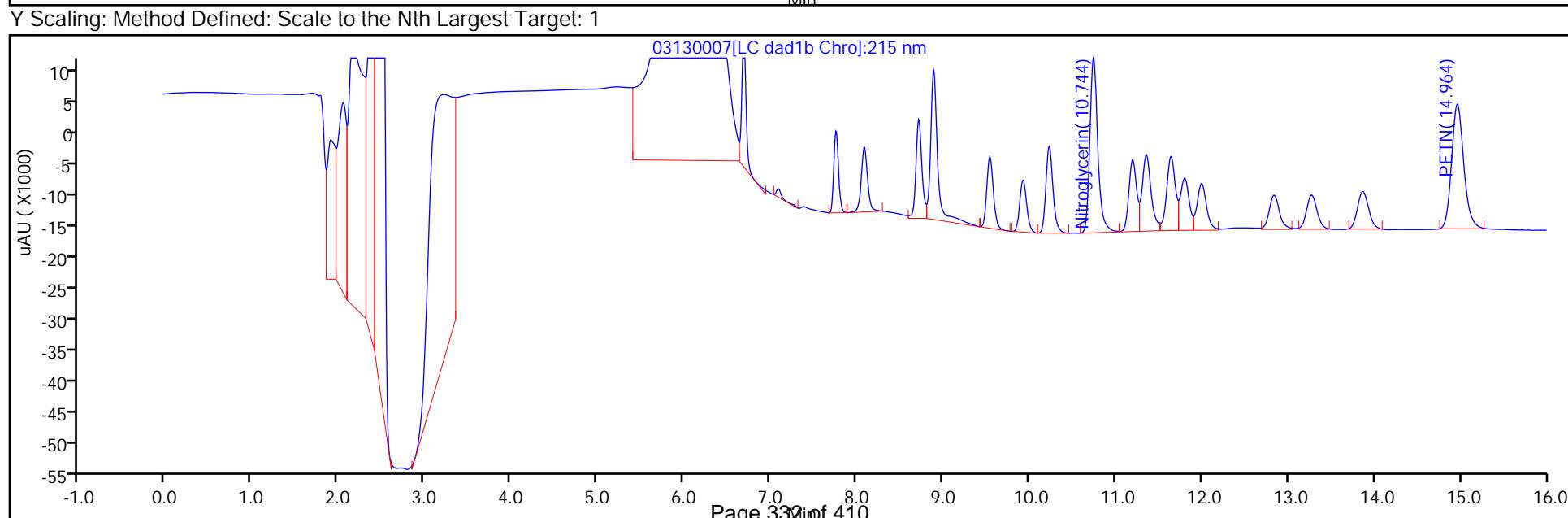
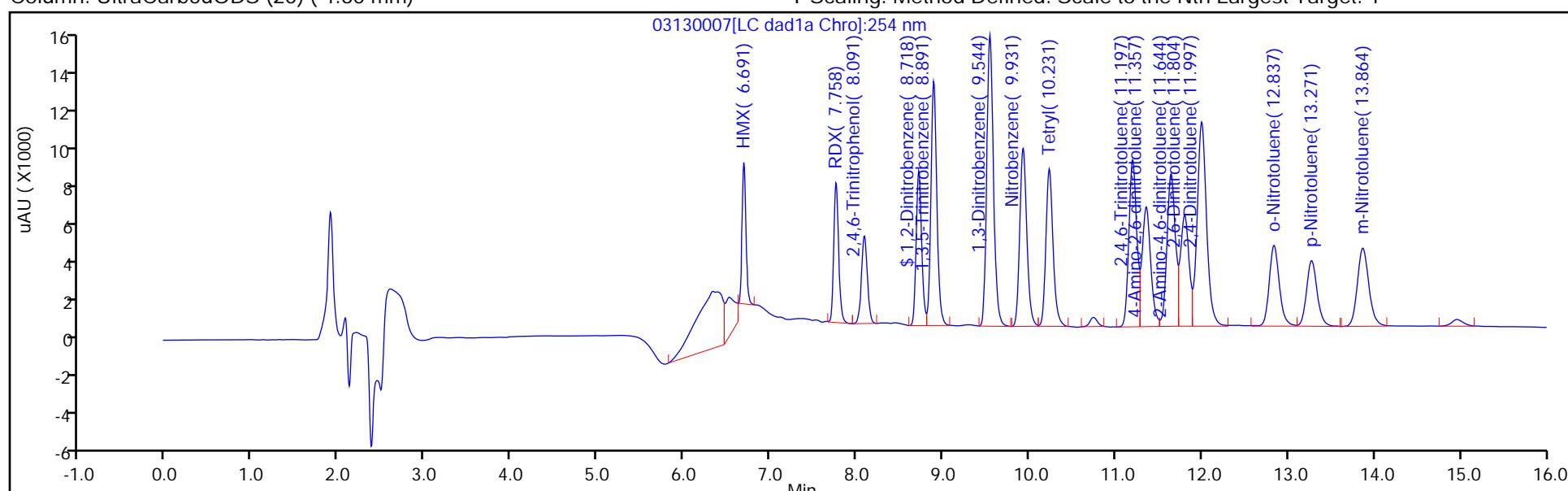
ALS Bottle#: 7

Method: 8330_X3

Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

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



Eurofins TestAmerica, Denver

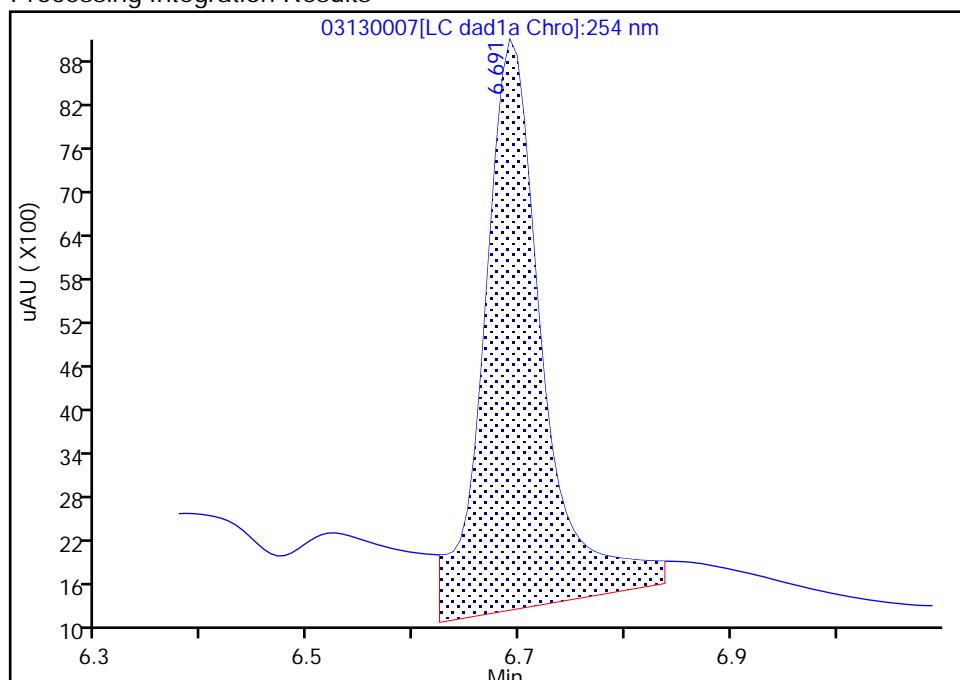
Data File: \\chromna\denver\chromdata\chhplc_x\20200313-90034.b\03130007.d
 Injection Date: 13-Mar-2020 15:43:22 Instrument ID: CHHPLC_X3
 Lims ID: CCV INT
 Client ID:
 Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

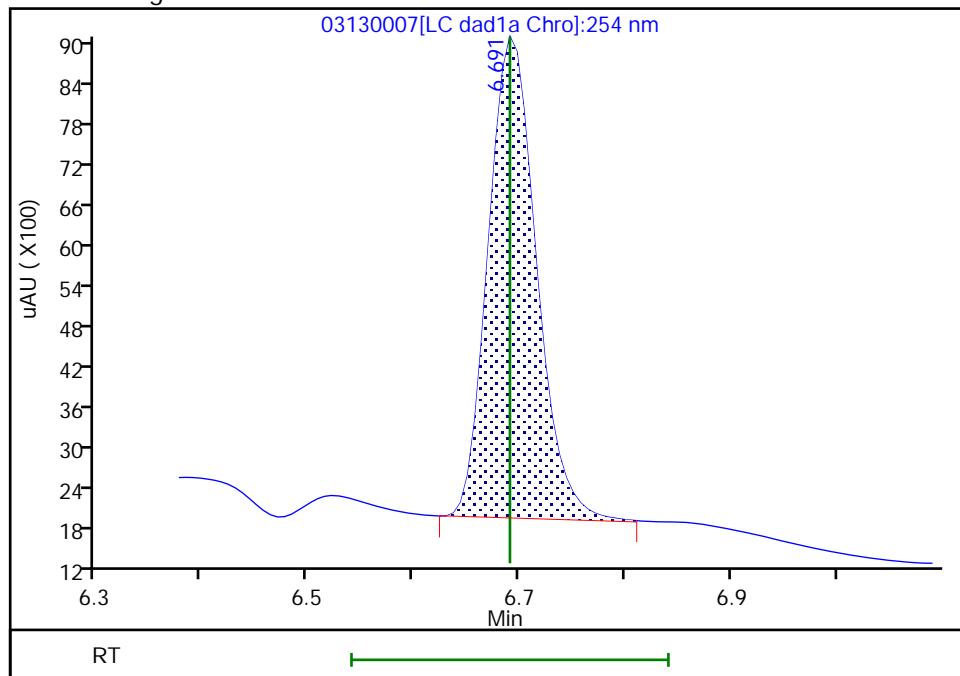
RT: 6.69
 Area: 30535
 Amount: 0.342407
 Amount Units: ug/mL

Processing Integration Results



RT: 6.69
 Area: 22630
 Amount: 0.253763
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 16-Mar-2020 10:41:28

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1

SDG No.: _____

Lab Sample ID: CCV 280-488648/9 Calibration Date: 03/13/2020 16:29

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: 03130009.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	244020		281	250	12.1	15.0
DNX	Ave	152928	177019		290	250	15.8*	15.0
MNX	Ave	158544	162221		299	292	2.3	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: CCV 280-488648/9 Calibration Date: 03/13/2020 16:29
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: 03130009.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.60	6.49	6.69
DNX	6.92	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\20200313-90034.b\03130009.D
 Lims ID: CCV DMT
 Client ID:
 Sample Type: CCV
 Inject. Date: 13-Mar-2020 16:29:13 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 100.0 uL Dil. Factor: 1.0000
 Sample Info: CCV DMT
 Misc. Info.: 280-0090034-009
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub17
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 16-Mar-2020 12:00:47 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: CTX0303

First Level Reviewer: beckerc

Date:

16-Mar-2020 10:42:41

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.595	6.594	0.001	61066	0.2503	0.2806	M
5 DNX	1	6.922	6.914	0.008	44299	0.2503	0.2897	M
6 MNX	1	7.362	7.361	0.001	47328	0.2918	0.2985	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00005

Amount Added: 12.50

Units: uL

Report Date: 16-Mar-2020 12:00:48

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200313-90034.b\\03130009.d

Injection Date: 13-Mar-2020 16:29:13

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: CCV DMT

Worklist Smp#: 9

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

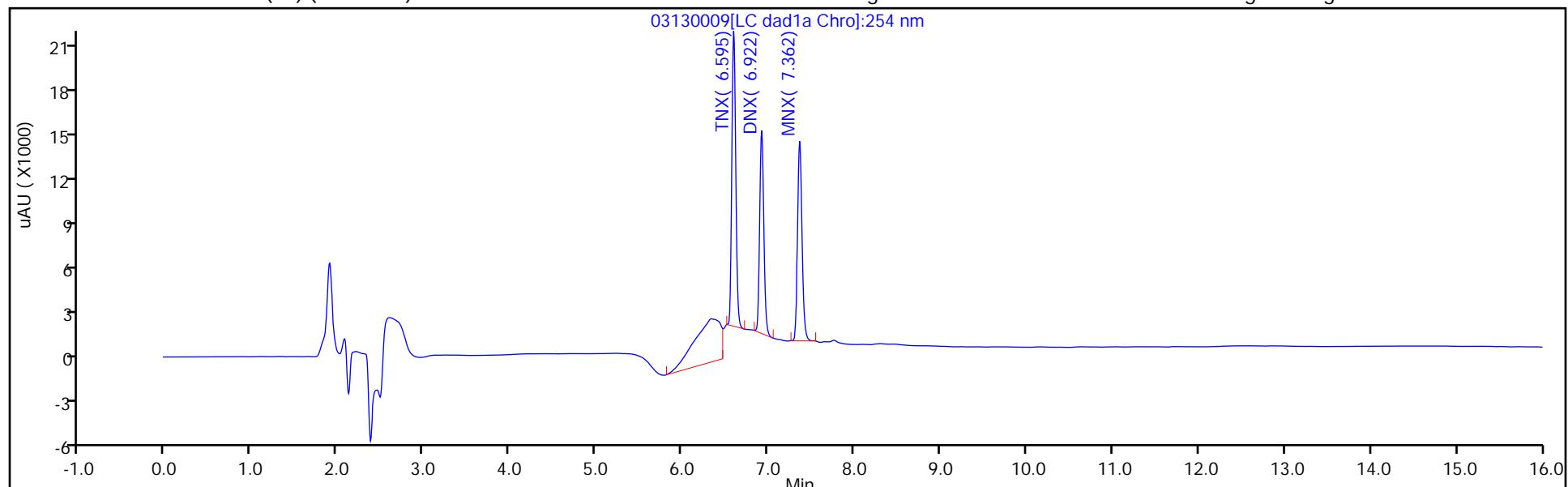
ALS Bottle#: 9

Method: 8330_X3

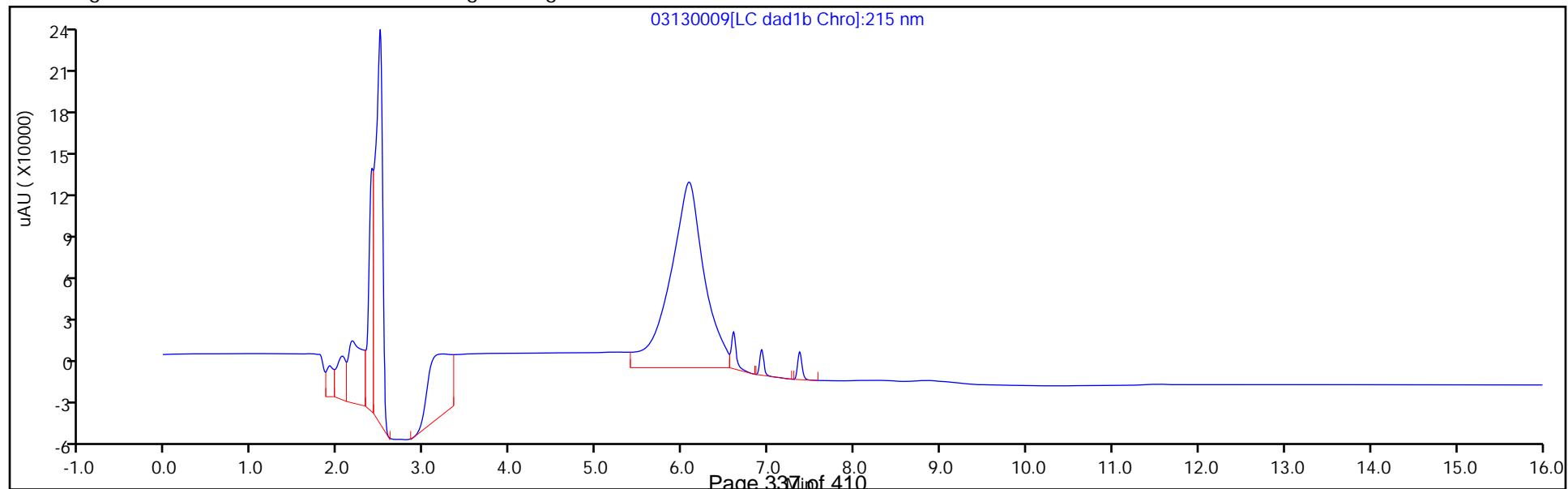
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

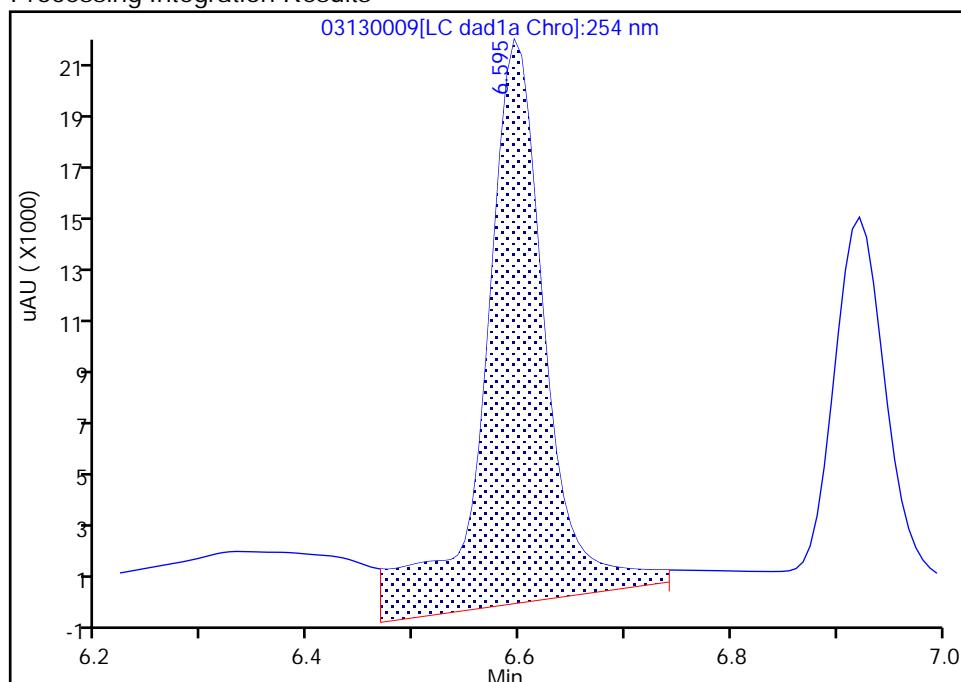
Data File: \\chromna\denver\chromdata\chhplc_x\20200313-90034.b\03130009.d
 Injection Date: 13-Mar-2020 16:29:13 Instrument ID: CHHPLC_X3
 Lims ID: CCV DMT
 Client ID:
 Operator ID: CB ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

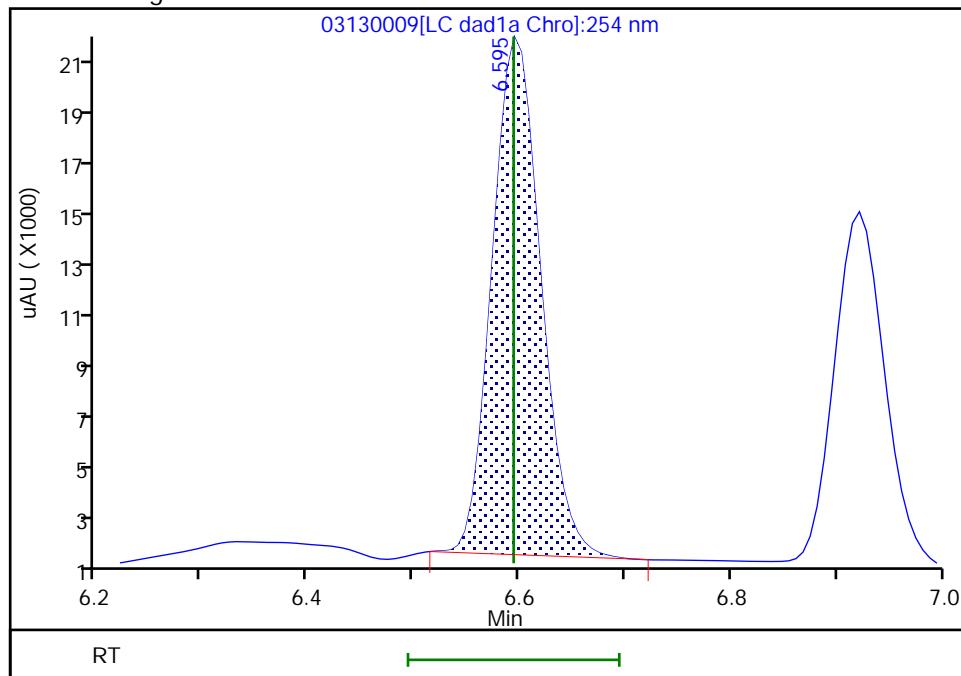
RT: 6.60
 Area: 82739
 Amount: 0.380219
 Amount Units: ug/mL

Processing Integration Results



RT: 6.60
 Area: 61066
 Amount: 0.280623
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 16-Mar-2020 10:42:33

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

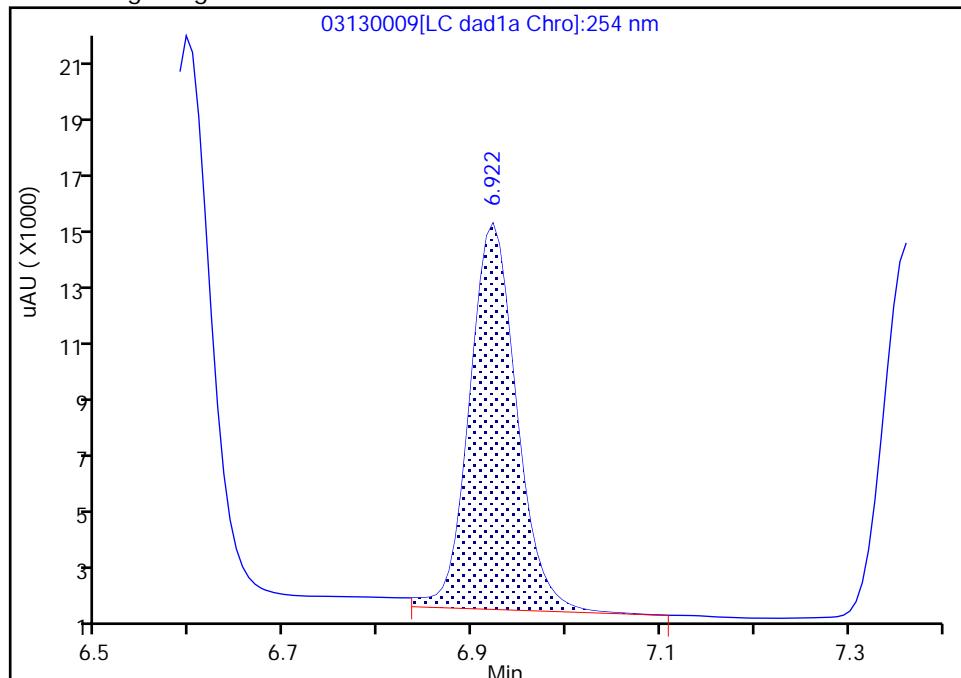
Data File: \\chromna\denver\chromdata\chhplc_x\20200313-90034.b\03130009.d
 Injection Date: 13-Mar-2020 16:29:13 Instrument ID: CHHPLC_X3
 Lims ID: CCV DMT
 Client ID:
 Operator ID: CB ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

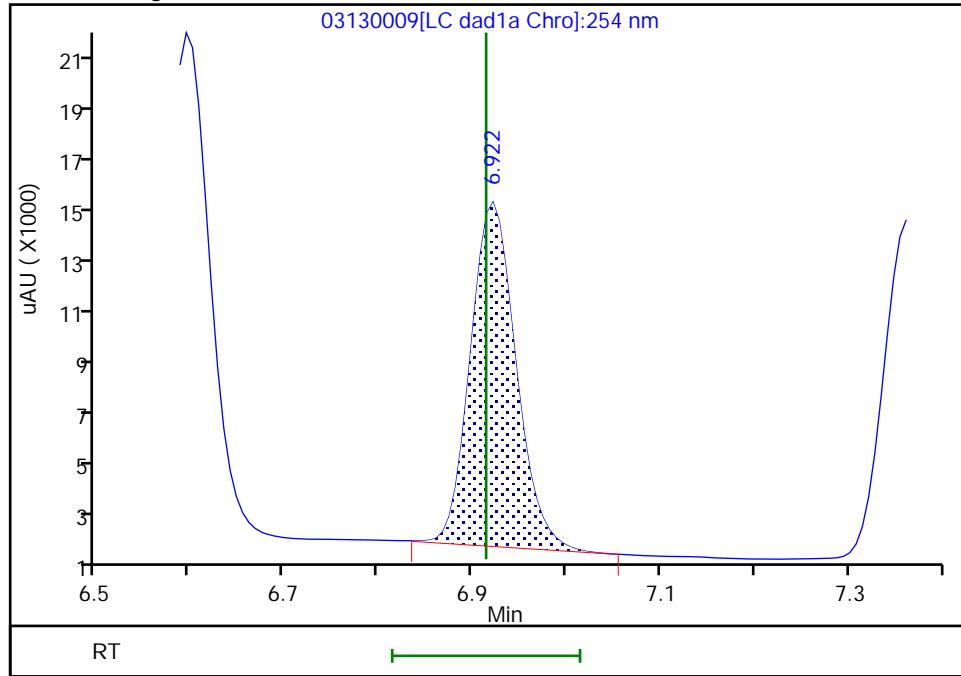
RT: 6.92
 Area: 46324
 Amount: 0.302913
 Amount Units: ug/mL

Processing Integration Results



RT: 6.92
 Area: 44299
 Amount: 0.289672
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 16-Mar-2020 10:42:38

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: CCV 280-488648/20 Calibration Date: 03/13/2020 20:41
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 14:07
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 16:47
Lab File ID: 03130020.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	89178	93036		261	250	4.3	15.0
RDX	Ave	117869	111664		237	250	-5.3	15.0
Picric acid	Ave	87247	83560		239	250	-4.2	15.0
1,3,5-Trinitrobenzene	Ave	243459	238403		245	251	-2.1	15.0
1,3-Dinitrobenzene	Ave	324251	319521		247	251	-1.5	15.0
Nitrobenzene	Ave	212689	206458		244	251	-2.9	15.0
Tetryl	Ave	193870	184954		239	251	-4.6	15.0
Nitroglycerin	Ave	71797	72480		2520	2500	1.0	15.0
2,4,6-Trinitrotoluene	Ave	220911	213797		243	251	-3.2	15.0
4-Amino-2,6-dinitrotoluene	Ave	173468	169235		244	250	-2.4	15.0
2-Amino-4,6-dinitrotoluene	Ave	217539	208139		240	251	-4.3	15.0
2,6-Dinitrotoluene	Ave	159404	158355		249	251	-0.7	15.0
2,4-Dinitrotoluene	Ave	321164	315048		246	251	-1.9	15.0
2-Nitrotoluene	Ave	143838	132472		230	250	-7.9	15.0
4-Nitrotoluene	Ave	120299	113816		237	251	-5.4	15.0
3-Nitrotoluene	Ave	154244	146985		238	250	-4.7	15.0
PETN	Ave	79456	79130		2490	2500	-0.4	15.0
1,2-Dinitrobenzene	Ave	146215	140632		240	250	-3.8	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: CCV 280-488648/20 Calibration Date: 03/13/2020 20:41
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 14:07
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 16:47
Lab File ID: 03130020.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.69	6.54	6.84
RDX	7.76	7.61	7.91
Picric acid	8.09	7.94	8.24
1,3,5-Trinitrobenzene	8.90	8.74	9.04
1,3-Dinitrobenzene	9.55	9.39	9.69
Nitrobenzene	9.93	9.78	10.08
Tetryl	10.24	10.08	10.38
Nitroglycerin	10.75	10.59	10.89
2,4,6-Trinitrotoluene	11.20	11.10	11.30
4-Amino-2,6-dinitrotoluene	11.36	11.26	11.46
2-Amino-4,6-dinitrotoluene	11.66	11.54	11.74
2,6-Dinitrotoluene	11.81	11.70	11.90
2,4-Dinitrotoluene	12.01	11.90	12.10
2-Nitrotoluene	12.85	12.69	12.99
4-Nitrotoluene	13.29	13.12	13.42
3-Nitrotoluene	13.88	13.71	14.01
PETN	14.98	14.81	15.11
1,2-Dinitrobenzene	8.72	8.57	8.87

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\03130020.D
 Lims ID: CCV INT
 Client ID:
 Sample Type: CCV
 Inject. Date: 13-Mar-2020 20:41:37 ALS Bottle#: 7 Worklist Smp#: 20
 Injection Vol: 100.0 uL Dil. Factor: 1.0000
 Sample Info: CCV INT
 Misc. Info.: 280-0090034-020
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 16-Mar-2020 12:00:23 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: CTX0303

First Level Reviewer: beckerc

Date:

16-Mar-2020 10:55:11

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.691	6.691	0.000	23259	0.2500	0.2608	M
7 RDX	1	7.764	7.758	0.006	27916	0.2500	0.2368	
8 2,4,6-Trinitrophenol	1	8.091	8.091	0.000	20890	0.2500	0.2394	
\$ 9 1,2-Dinitrobenzene	1	8.724	8.718	0.006	35158	0.2500	0.2405	
10 1,3,5-Trinitrobenzene	1	8.897	8.891	0.006	59720	0.2505	0.2453	
11 1,3-Dinitrobenzene	1	9.551	9.544	0.007	80040	0.2505	0.2468	M
12 Nitrobenzene	1	9.931	9.931	0.000	51821	0.2510	0.2436	M
14 Tetryl	1	10.237	10.231	0.006	46331	0.2505	0.2390	
15 Nitroglycerin	2	10.751	10.744	0.007	181201	2.50	2.52	
16 2,4,6-Trinitrotoluene	1	11.204	11.197	0.007	53663	0.2510	0.2429	
17 4-Amino-2,6-dinitrotoluene	1	11.364	11.357	0.007	42351	0.2503	0.2441	
18 2-Amino-4,6-dinitrotoluene	1	11.657	11.644	0.013	52243	0.2510	0.2402	
19 2,6-Dinitrotoluene	1	11.811	11.804	0.007	39747	0.2510	0.2493	
20 2,4-Dinitrotoluene	1	12.011	11.997	0.014	79077	0.2510	0.2462	
21 o-Nitrotoluene	1	12.851	12.837	0.014	33118	0.2500	0.2302	
22 p-Nitrotoluene	1	13.291	13.271	0.020	28511	0.2505	0.2370	
23 m-Nitrotoluene	1	13.884	13.864	0.020	36783	0.2503	0.2385	
24 PETN	2	14.977	14.964	0.013	197825	2.50	2.49	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 25.00

Units: uL

Report Date: 16-Mar-2020 12:00:23

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200313-90034.b\\03130020.d

Injection Date: 13-Mar-2020 20:41:37

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: CCV INT

Worklist Smp#: 20

Client ID:

Injection Vol: 100.0 ul

Method: 8330_X3

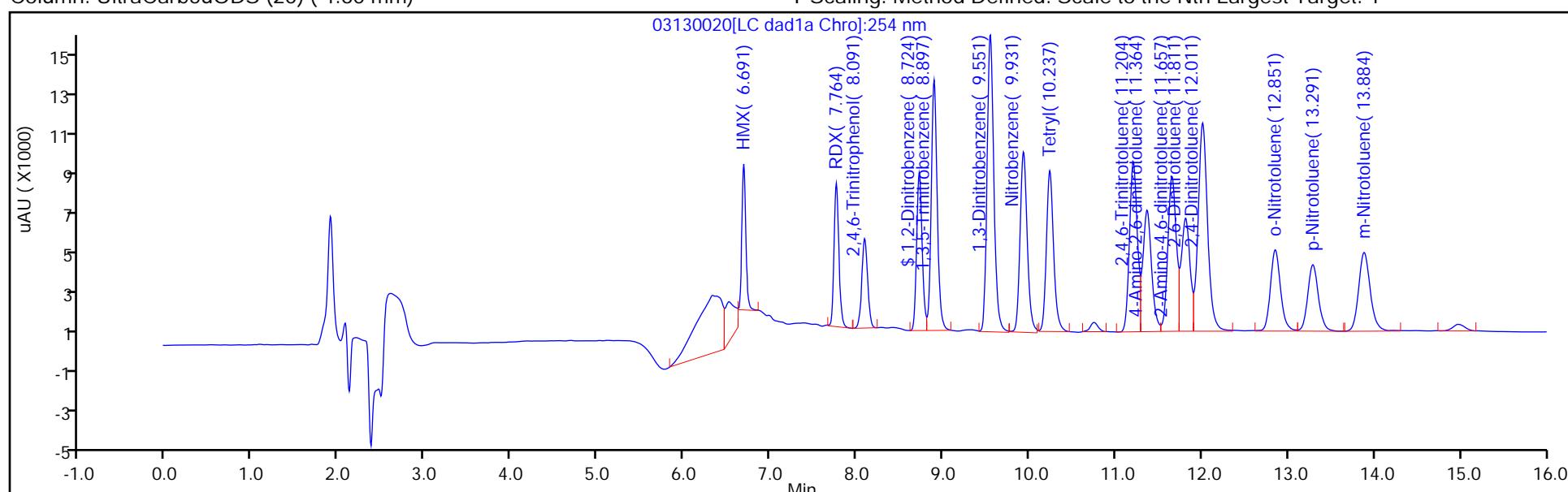
Dil. Factor: 1.0000

Limit Group: GCSV - 8330

ALS Bottle#: 7

Column: UltraCarb5uODS (20) (4.60 mm)

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



Eurofins TestAmerica, Denver

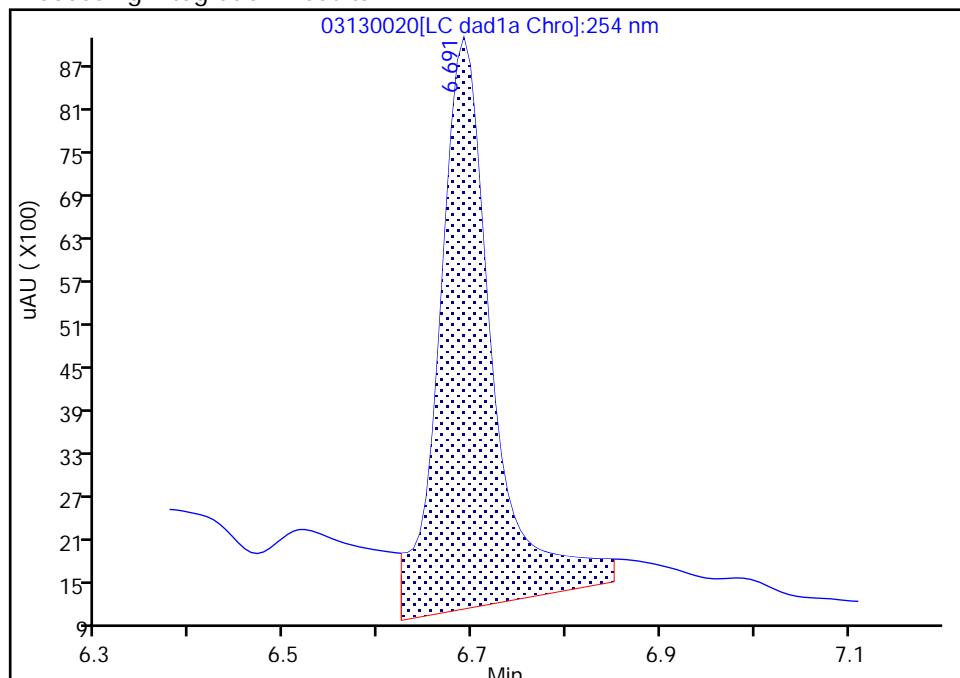
Data File: \\chromna\denver\chromdata\chhplc_x\20200313-90034.b\03130020.d
 Injection Date: 13-Mar-2020 20:41:37 Instrument ID: CHHPLC_X3
 Lims ID: CCV INT
 Client ID:
 Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 20
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

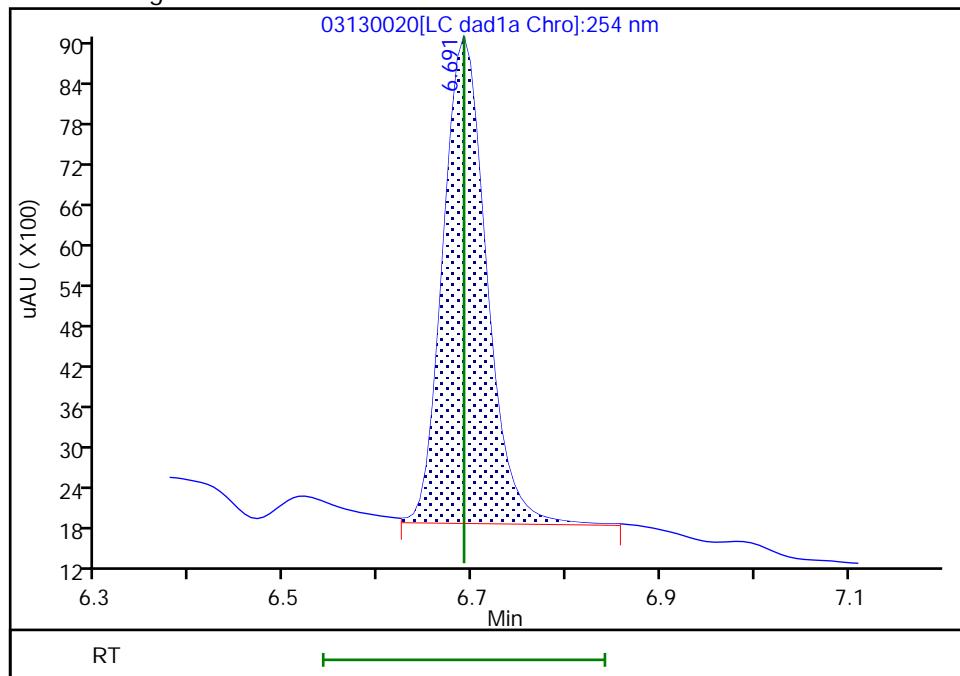
RT: 6.69
 Area: 31119
 Amount: 0.348956
 Amount Units: ug/mL

Processing Integration Results



RT: 6.69
 Area: 23259
 Amount: 0.260817
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 16-Mar-2020 10:54:42

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

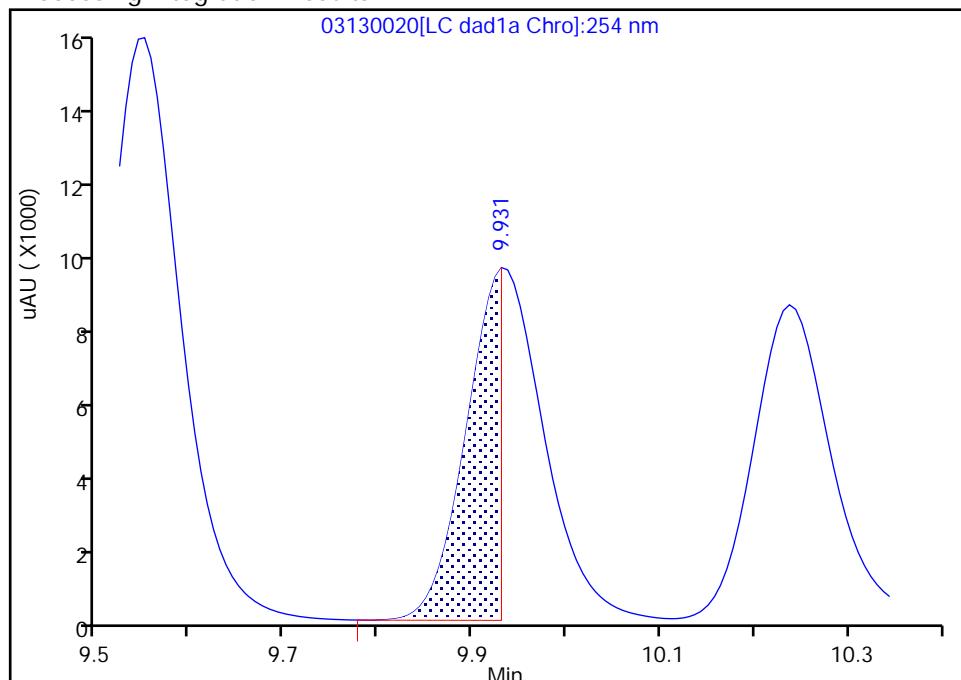
Data File: \\chromna\denver\chromdata\chhplc_x\20200313-90034.b\03130020.d
 Injection Date: 13-Mar-2020 20:41:37 Instrument ID: CHHPLC_X3
 Lims ID: CCV INT
 Client ID:
 Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 20
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

12 Nitrobenzene, CAS: 98-95-3

Signal: 1

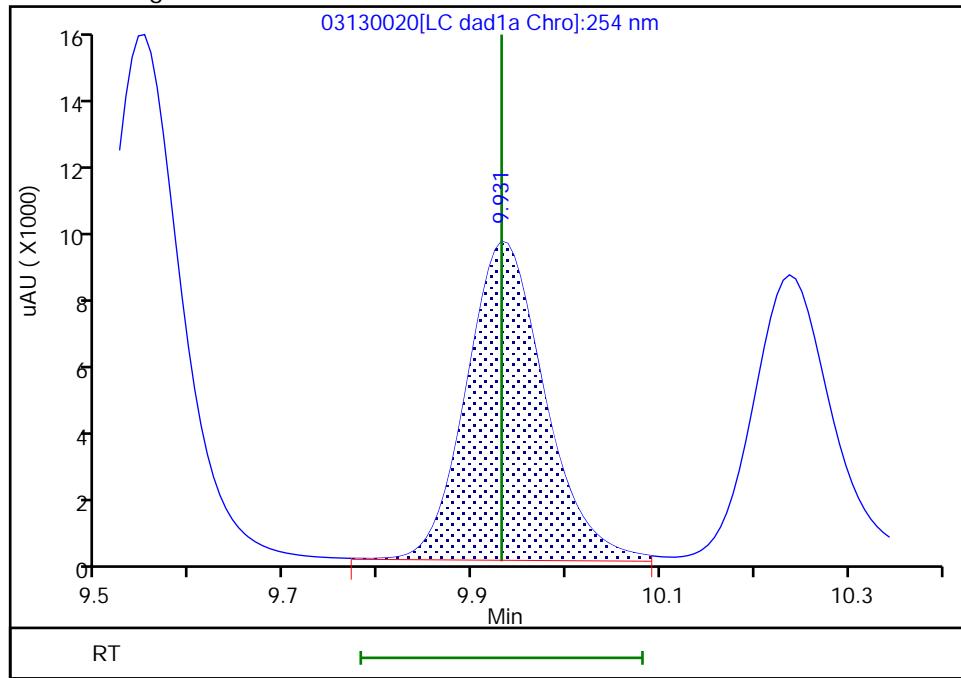
RT: 9.93
 Area: 22617
 Amount: 0.106338
 Amount Units: ug/mL

Processing Integration Results



RT: 9.93
 Area: 51821
 Amount: 0.243647
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 16-Mar-2020 10:54:51

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: CCV 280-488648/22 Calibration Date: 03/13/2020 21:27
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: 03130022.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	237558		273	250	9.2	15.0
DNX	Ave	152928	174482		286	250	14.1	15.0
MNX	Ave	158544	162386		299	292	2.4	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: CCV 280-488648/22 Calibration Date: 03/13/2020 21:27
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: 03130022.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.59	6.49	6.69
DNX	6.92	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\20200313-90034.b\03130022.D
 Lims ID: CCV DMT
 Client ID:
 Sample Type: CCV
 Inject. Date: 13-Mar-2020 21:27:28 ALS Bottle#: 9 Worklist Smp#: 22
 Injection Vol: 100.0 uL Dil. Factor: 1.0000
 Sample Info: CCV DMT
 Misc. Info.: 280-0090034-022
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub17
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 16-Mar-2020 12:00:16 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: CTX0303

First Level Reviewer: beckerc

Date:

16-Mar-2020 10:56:00

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	59449	0.2503	0.2732	M
5 DNX	1	6.920	6.914	0.006	43664	0.2503	0.2855	M
6 MNX	1	7.360	7.361	-0.001	47376	0.2918	0.2988	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00005

Amount Added: 12.50

Units: uL

Report Date: 16-Mar-2020 12:00:17

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200313-90034.b\\03130022.d

Injection Date: 13-Mar-2020 21:27:28

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: CCV DMT

Worklist Smp#: 22

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

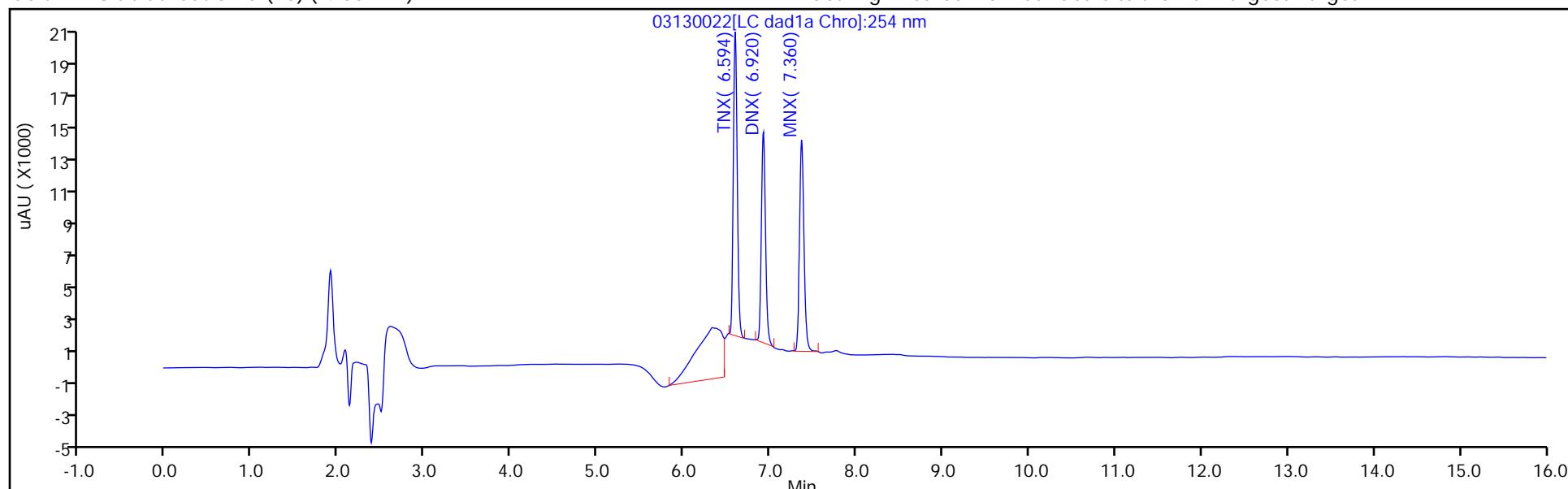
ALS Bottle#: 9

Method: 8330_X3

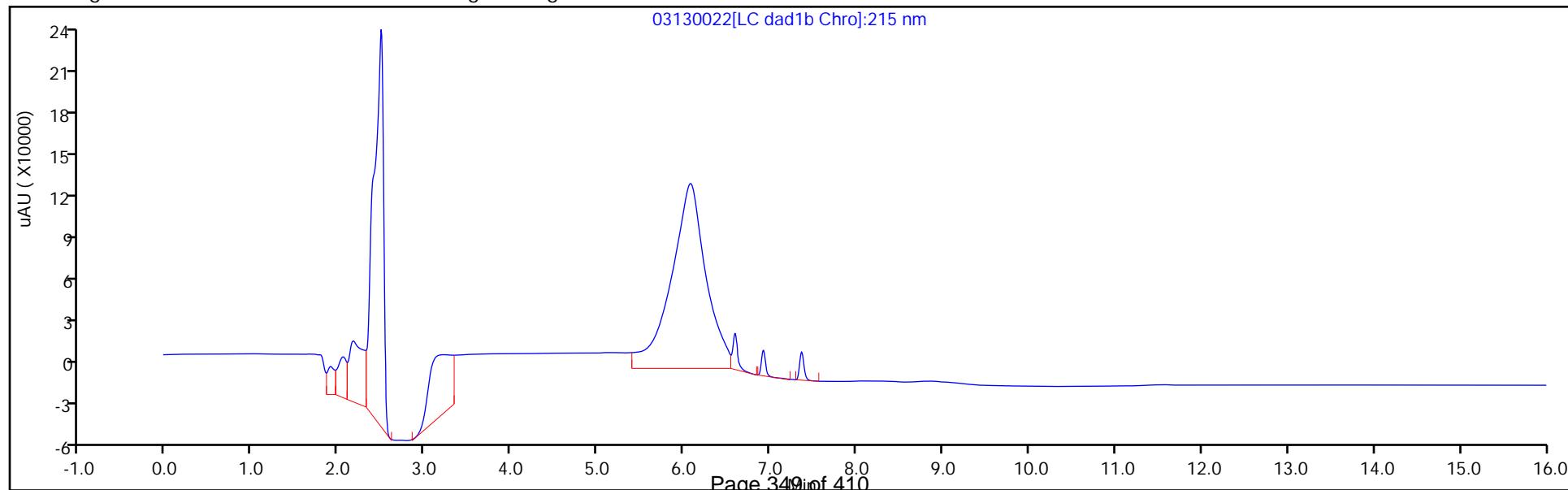
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

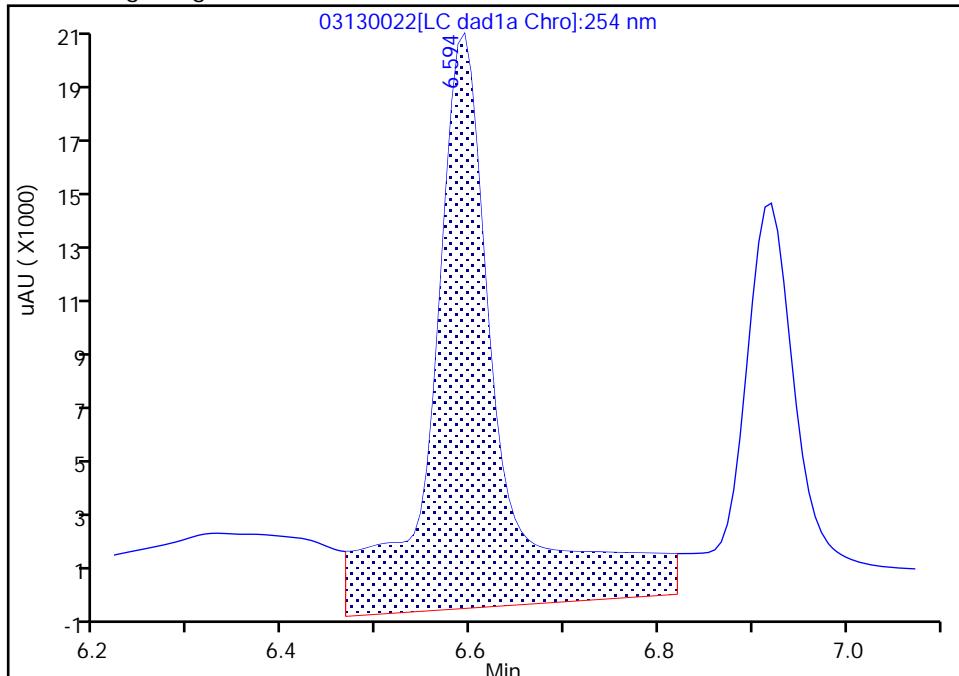
Data File: \\chromna\denver\chromdata\chhplc_x\20200313-90034.b\03130022.d
 Injection Date: 13-Mar-2020 21:27:28 Instrument ID: CHHPLC_X3
 Lims ID: CCV DMT
 Client ID:
 Operator ID: CB ALS Bottle#: 9 Worklist Smp#: 22
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

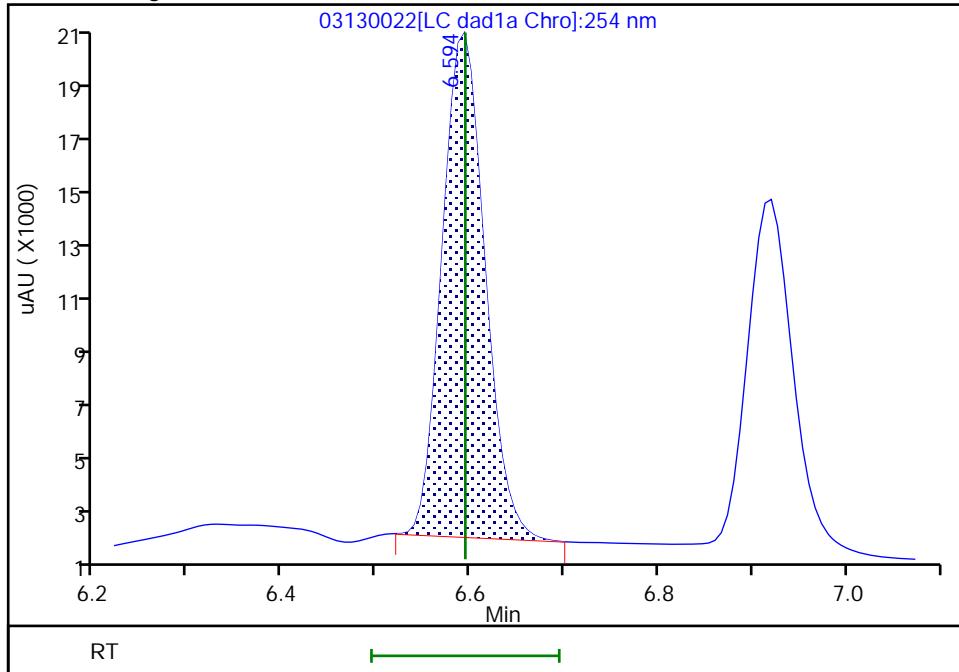
Processing Integration Results

RT: 6.59
 Area: 102965
 Amount: 0.473166
 Amount Units: ug/mL



Manual Integration Results

RT: 6.59
 Area: 59449
 Amount: 0.273192
 Amount Units: ug/mL



Reviewer: beckerc, 16-Mar-2020 10:55:53

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

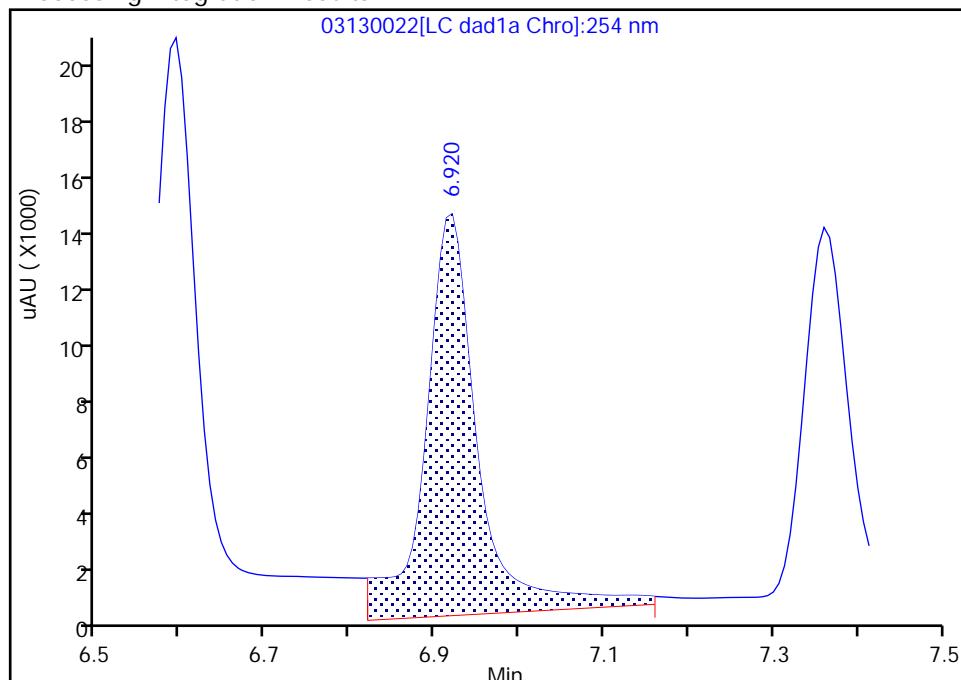
Data File: \\chromna\denver\chromdata\chhplc_x\20200313-90034.b\03130022.d
 Injection Date: 13-Mar-2020 21:27:28 Instrument ID: CHHPLC_X3
 Lims ID: CCV DMT
 Client ID:
 Operator ID: CB ALS Bottle#: 9 Worklist Smp#: 22
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

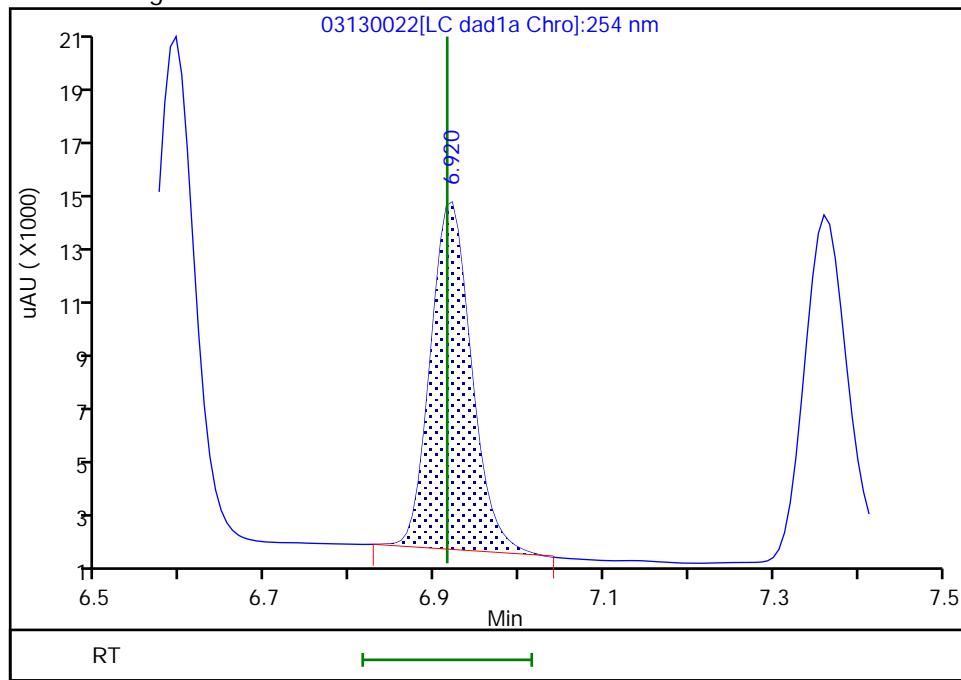
RT: 6.92
 Area: 61254
 Amount: 0.400541
 Amount Units: ug/mL

Processing Integration Results



RT: 6.92
 Area: 43664
 Amount: 0.285519
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 16-Mar-2020 10:55:56

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: CCV 280-488785/26 Calibration Date: 03/16/2020 17:29
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 14:07
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 16:47
Lab File ID: 03160026.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	89178	88440		248	250	-0.8	15.0
RDX	Ave	117869	111492		236	250	-5.4	15.0
Picric acid	Ave	87247	86508		248	250	-0.8	15.0
1,3,5-Trinitrobenzene	Ave	243459	236511		243	251	-2.9	15.0
1,3-Dinitrobenzene	Ave	324251	315082		243	251	-2.8	15.0
Nitrobenzene	Ave	212689	202223		239	251	-4.9	15.0
Tetryl	Ave	193870	185154		239	251	-4.5	15.0
Nitroglycerin	Ave	71797	72121		2510	2500	0.5	15.0
2,4,6-Trinitrotoluene	Ave	220911	211920		241	251	-4.1	15.0
4-Amino-2,6-dinitrotoluene	Ave	173468	169359		244	250	-2.4	15.0
2-Amino-4,6-dinitrotoluene	Ave	217539	207112		239	251	-4.8	15.0
2,6-Dinitrotoluene	Ave	159404	157422		248	251	-1.2	15.0
2,4-Dinitrotoluene	Ave	321164	313777		245	251	-2.3	15.0
2-Nitrotoluene	Ave	143838	132772		231	250	-7.7	15.0
4-Nitrotoluene	Ave	120299	115054		240	251	-4.4	15.0
3-Nitrotoluene	Ave	154244	145902		237	250	-5.4	15.0
PETN	Ave	79456	78566		2470	2500	-1.1	15.0
1,2-Dinitrobenzene	Ave	146215	139372		238	250	-4.7	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: CCV 280-488785/26 Calibration Date: 03/16/2020 17:29
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 14:07
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 16:47
Lab File ID: 03160026.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.69	6.54	6.84
RDX	7.76	7.60	7.90
Picric acid	8.07	7.90	8.20
1,3,5-Trinitrobenzene	8.90	8.73	9.03
1,3-Dinitrobenzene	9.55	9.38	9.68
Nitrobenzene	9.94	9.76	10.06
Tetryl	10.24	10.06	10.36
Nitroglycerin	10.76	10.58	10.88
2,4,6-Trinitrotoluene	11.21	11.08	11.28
4-Amino-2,6-dinitrotoluene	11.36	11.23	11.43
2-Amino-4,6-dinitrotoluene	11.65	11.51	11.71
2,6-Dinitrotoluene	11.82	11.69	11.89
2,4-Dinitrotoluene	12.01	11.88	12.08
2-Nitrotoluene	12.85	12.67	12.97
4-Nitrotoluene	13.29	13.11	13.41
3-Nitrotoluene	13.88	13.71	14.01
PETN	14.98	14.81	15.11
1,2-Dinitrobenzene	8.72	8.56	8.86

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200316-90072.b\03160026.D
 Lims ID: CCV INT
 Client ID:
 Sample Type: CCV
 Inject. Date: 16-Mar-2020 17:29:23 ALS Bottle#: 7 Worklist Smp#: 26
 Injection Vol: 100.0 uL Dil. Factor: 1.0000
 Sample Info: CCV INT
 Misc. Info.: 280-0090072-026
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200316-90072.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 17-Mar-2020 12:04:53 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: CTX0339

First Level Reviewer: beckerc

Date:

17-Mar-2020 11:42:28

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.690	6.685	0.005	22110	0.2500	0.2479	M
7 RDX	1	7.757	7.745	0.012	27873	0.2500	0.2365	
8 2,4,6-Trinitrophenol	1	8.070	8.045	0.025	21627	0.2500	0.2479	
\$ 9 1,2-Dinitrobenzene	1	8.724	8.705	0.019	34843	0.2500	0.2383	
10 1,3,5-Trinitrobenzene	1	8.897	8.878	0.019	59246	0.2505	0.2434	
11 1,3-Dinitrobenzene	1	9.550	9.525	0.025	78928	0.2505	0.2434	
12 Nitrobenzene	1	9.937	9.911	0.026	50758	0.2510	0.2386	
14 Tetryl	1	10.237	10.211	0.026	46381	0.2505	0.2392	
15 Nitroglycerin	2	10.757	10.725	0.032	180303	2.50	2.51	
16 2,4,6-Trinitrotoluene	1	11.210	11.178	0.032	53192	0.2510	0.2408	
17 4-Amino-2,6-dinitrotoluene	1	11.364	11.325	0.039	42382	0.2503	0.2443	
18 2-Amino-4,6-dinitrotoluene	1	11.650	11.611	0.039	51985	0.2510	0.2390	
19 2,6-Dinitrotoluene	1	11.817	11.785	0.032	39513	0.2510	0.2479	
20 2,4-Dinitrotoluene	1	12.010	11.978	0.032	78758	0.2510	0.2452	
21 o-Nitrotoluene	1	12.850	12.818	0.032	33193	0.2500	0.2308	
22 p-Nitrotoluene	1	13.290	13.258	0.032	28821	0.2505	0.2396	
23 m-Nitrotoluene	1	13.884	13.858	0.026	36512	0.2503	0.2367	
24 PETN	2	14.977	14.958	0.019	196416	2.50	2.47	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330IntermStk_00061

Amount Added: 25.00

Units: uL

Report Date: 17-Mar-2020 12:04:53

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200316-90072.b\\03160026.d

Injection Date: 16-Mar-2020 17:29:23

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: CCV INT

Worklist Smp#: 26

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

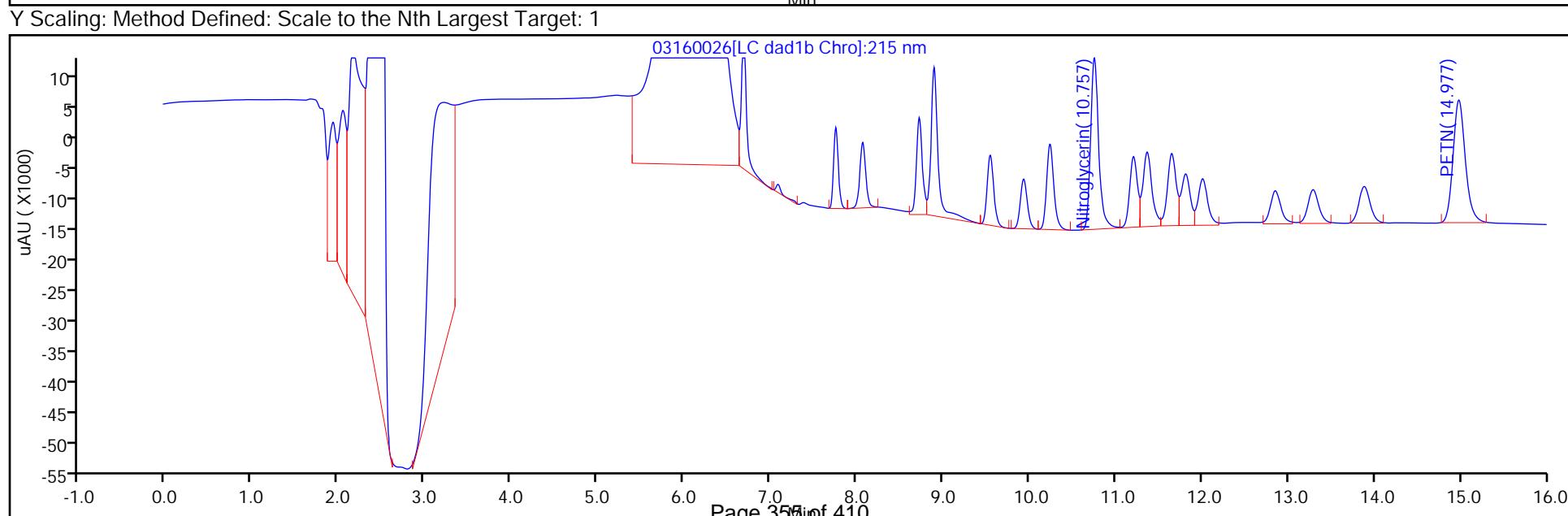
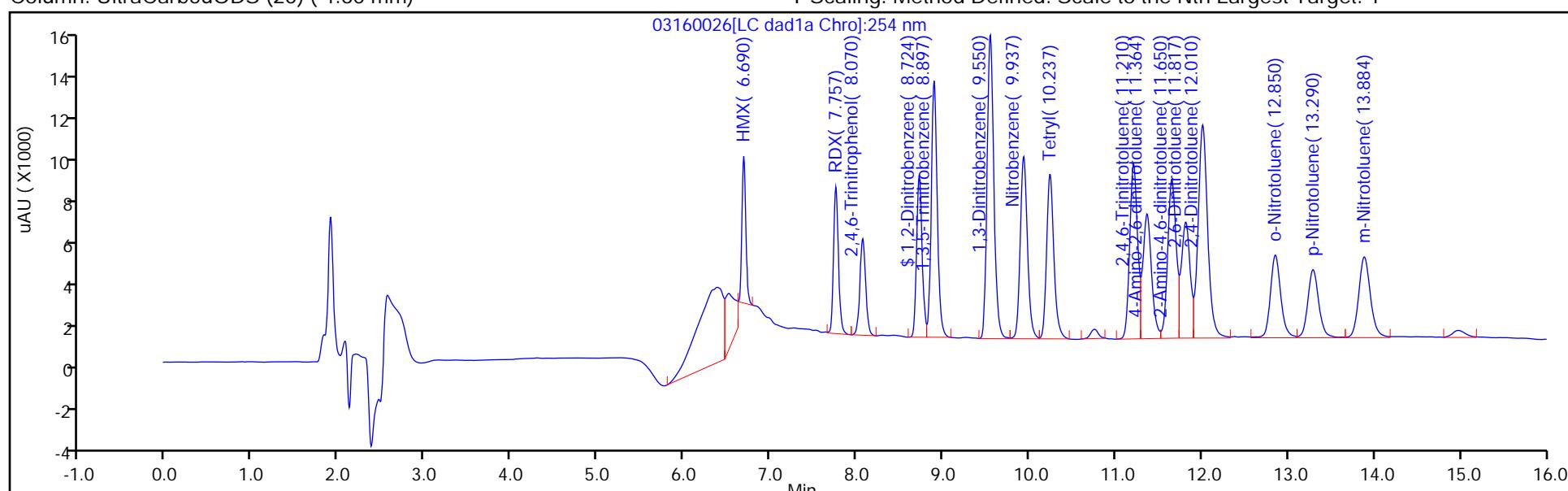
ALS Bottle#: 7

Method: 8330_X3

Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

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



Eurofins TestAmerica, Denver

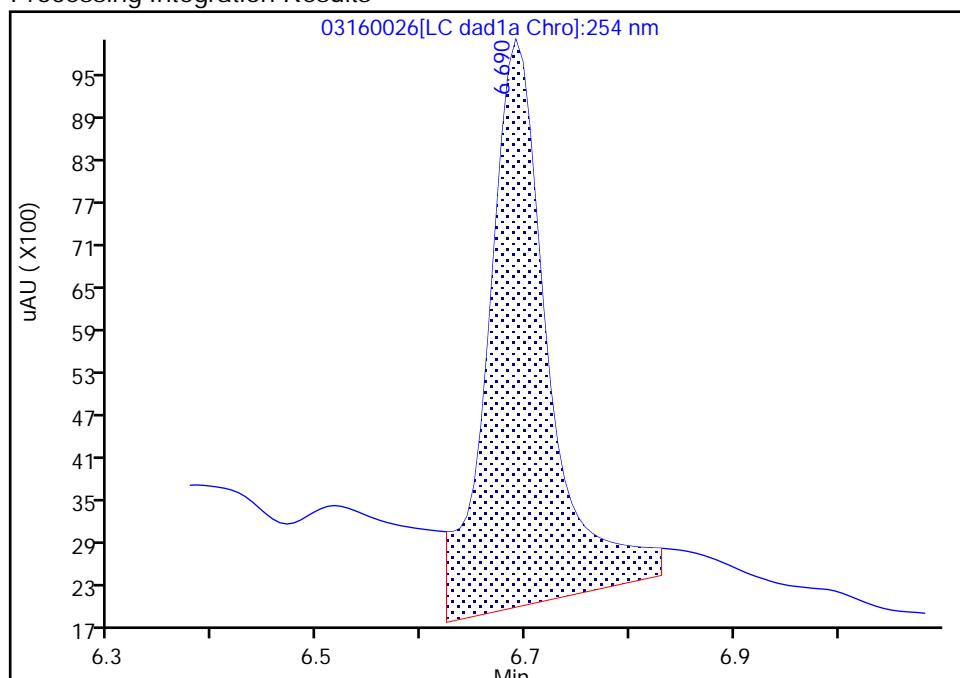
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 Injection Date: 16-Mar-2020 17:29:23 Instrument ID: CHHPLC_X3
 Lims ID: CCV INT
 Client ID:
 Operator ID: CB ALS Bottle#: 7 Worklist Smp#: 26
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

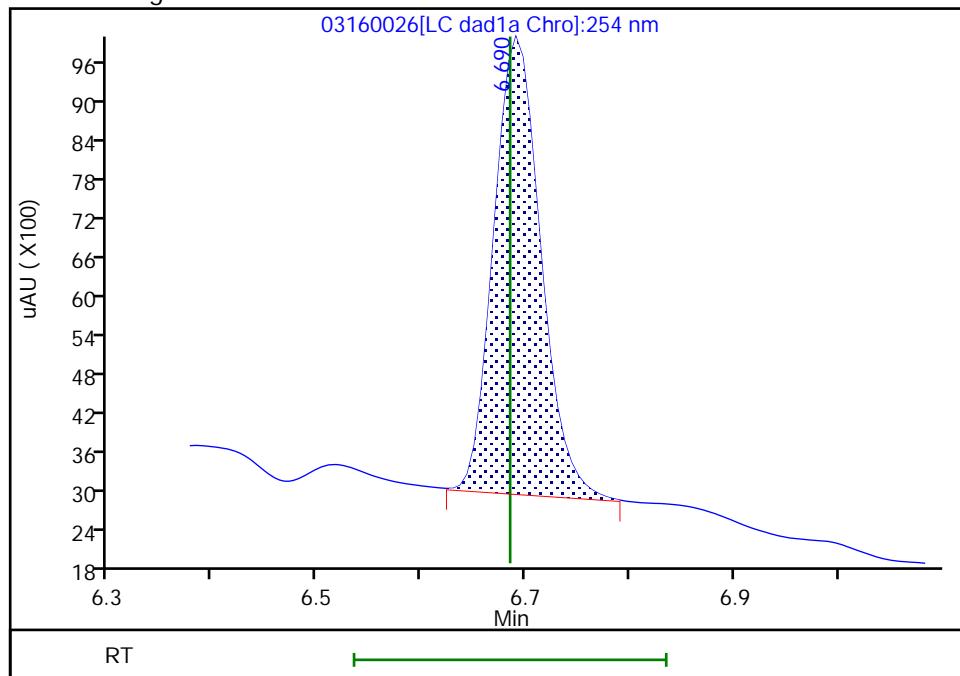
RT: 6.69
 Area: 32198
 Amount: 0.361055
 Amount Units: ug/mL

Processing Integration Results



RT: 6.69
 Area: 22110
 Amount: 0.247932
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 17-Mar-2020 11:42:24

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1

SDG No.: _____

Lab Sample ID: CCV 280-488785/28 Calibration Date: 03/16/2020 18:15

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: 03160028.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	242118		278	250	11.3	15.0
DNX	Ave	152928	175137		287	250	14.5	15.0
MNX	Ave	158544	162811		300	292	2.7	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: CCV 280-488785/28 Calibration Date: 03/16/2020 18:15
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: 03160028.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.59	6.49	6.69
DNX	6.92	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\20200316-90072.b\03160028.D
 Lims ID: CCV DMT
 Client ID:
 Sample Type: CCV
 Inject. Date: 16-Mar-2020 18:15:18 ALS Bottle#: 9 Worklist Smp#: 28
 Injection Vol: 100.0 uL Dil. Factor: 1.0000
 Sample Info: CCV DMT
 Misc. Info.: 280-0090072-028
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub17
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200316-90072.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 17-Mar-2020 12:04:50 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: CTX0339

First Level Reviewer: beckerc

Date:

17-Mar-2020 11:43:55

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.593	6.594	-0.001	60590	0.2503	0.2784	M
5 DNX	1	6.920	6.914	0.006	43828	0.2503	0.2866	M
6 MNX	1	7.360	7.361	-0.001	47500	0.2918	0.2996	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00005

Amount Added: 12.50

Units: uL

Report Date: 17-Mar-2020 12:04:50

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200316-90072.b\\03160028.d

Injection Date: 16-Mar-2020 18:15:18

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: CCV DMT

Worklist Smp#: 28

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

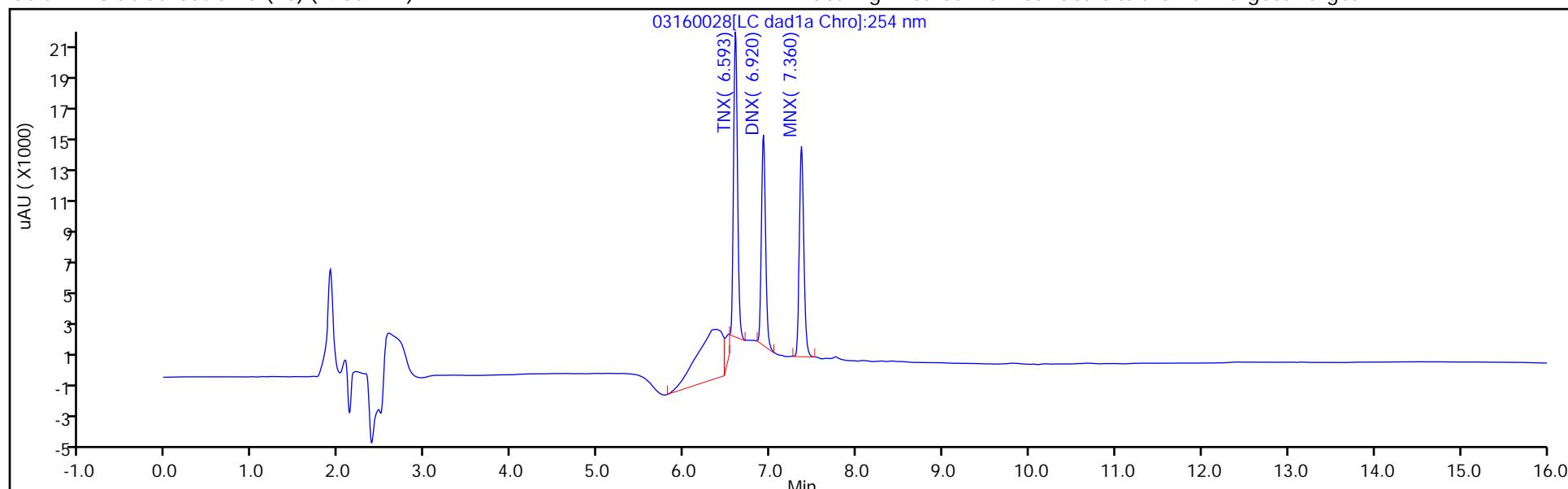
ALS Bottle#: 9

Method: 8330_X3

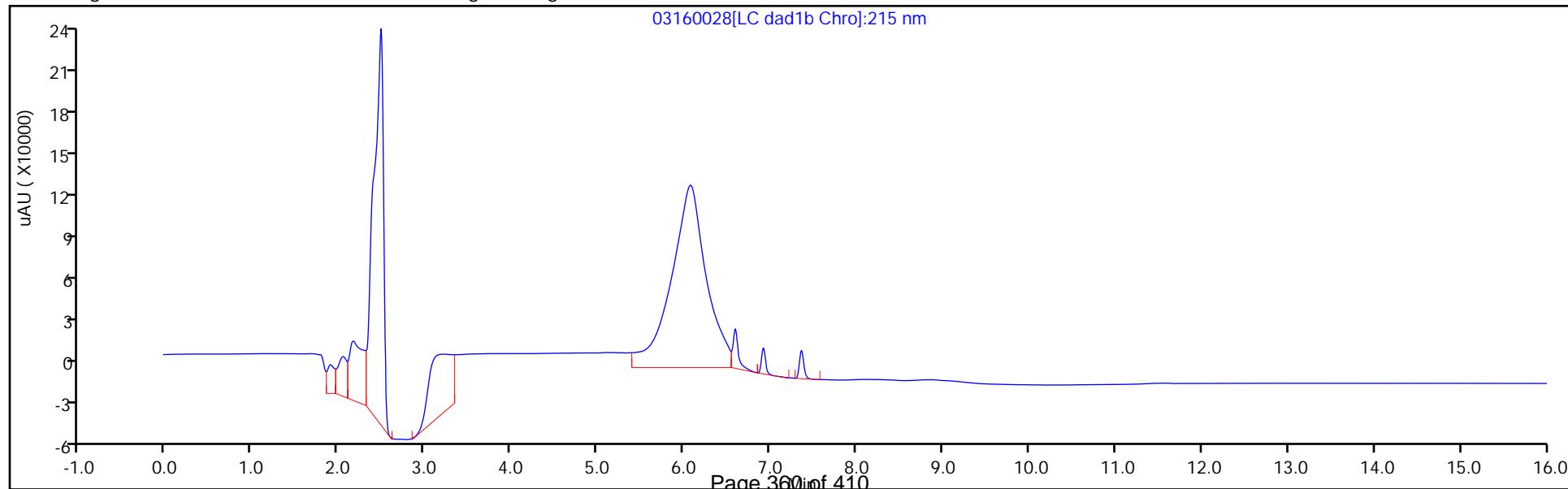
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

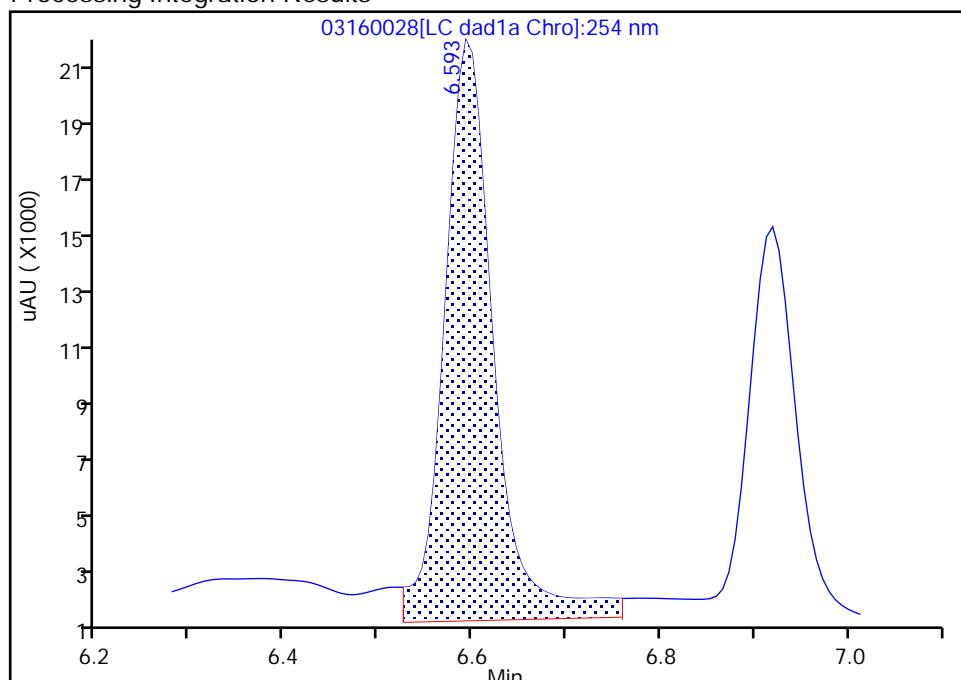
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 Injection Date: 16-Mar-2020 18:15:18 Instrument ID: CHHPLC_X3
 Lims ID: CCV DMT
 Client ID:
 Operator ID: CB ALS Bottle#: 9 Worklist Smp#: 28
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

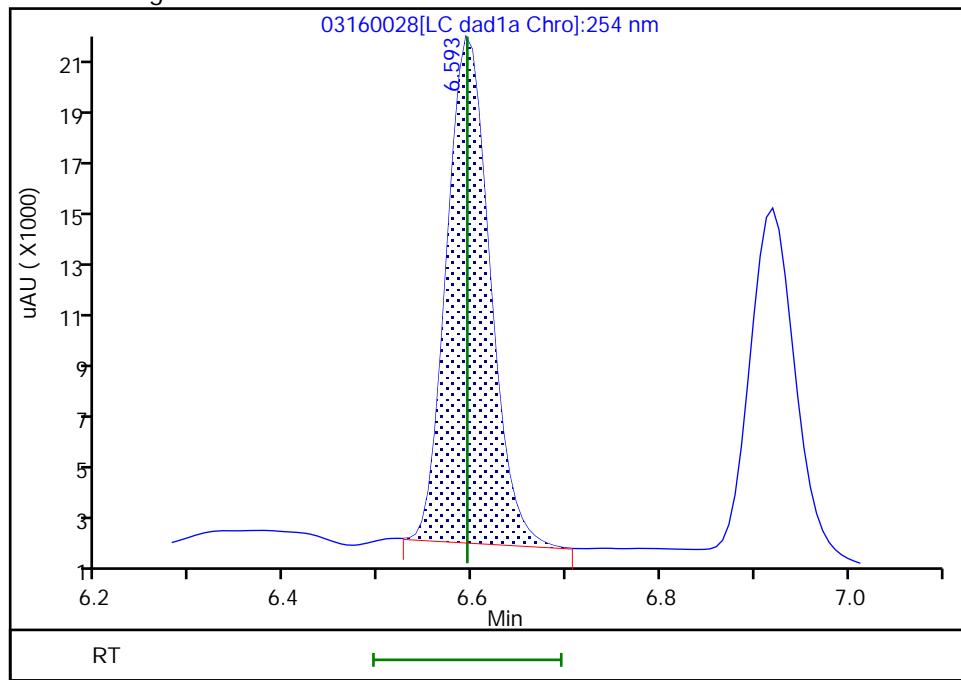
RT: 6.59
 Area: 72573
 Amount: 0.333502
 Amount Units: ug/mL

Processing Integration Results



RT: 6.59
 Area: 60590
 Amount: 0.278436
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 17-Mar-2020 11:43:48

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

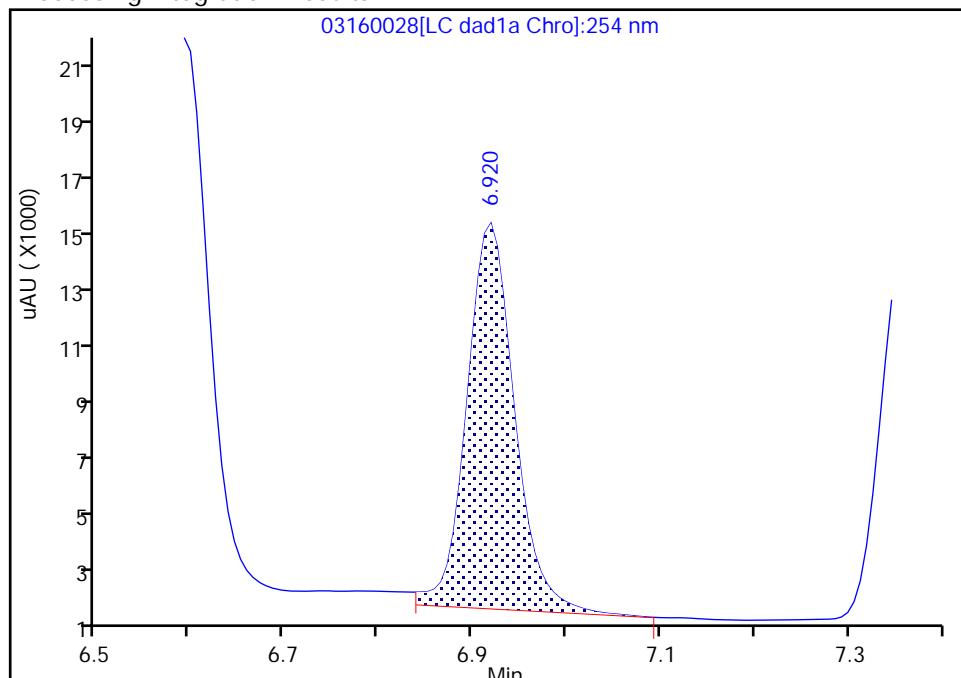
Data File: \\chromna\denver\chromdata\chhplc_x\20200316-90072.b\03160028.d
 Injection Date: 16-Mar-2020 18:15:18 Instrument ID: CHHPLC_X3
 Lims ID: CCV DMT
 Client ID:
 Operator ID: CB ALS Bottle#: 9 Worklist Smp#: 28
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

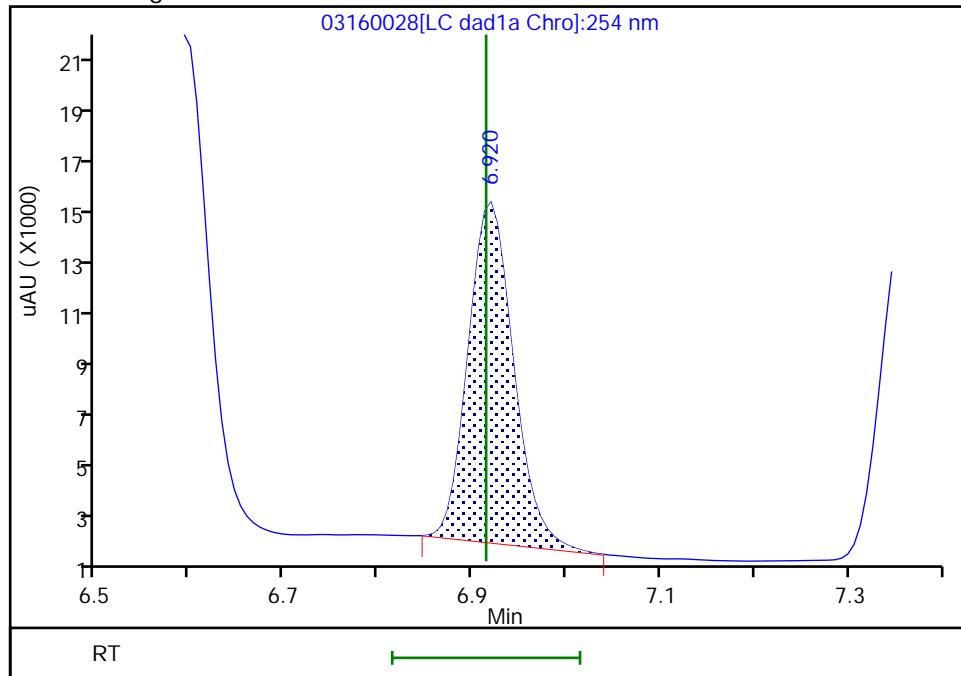
RT: 6.92
 Area: 46999
 Amount: 0.307327
 Amount Units: ug/mL

Processing Integration Results



RT: 6.92
 Area: 43828
 Amount: 0.286592
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 17-Mar-2020 11:43:52

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: CCV 280-488785/36 Calibration Date: 03/16/2020 21:18
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 14:07
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 16:47
Lab File ID: 03160036.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Ave	89178	89772		252	250	0.7	15.0
RDX	Ave	117869	111164		236	250	-5.7	15.0
Picric acid	Ave	87247	86756		249	250	-0.6	15.0
1,3,5-Trinitrobenzene	Ave	243459	238794		246	251	-1.9	15.0
1,3-Dinitrobenzene	Ave	324251	316595		245	251	-2.4	15.0
Nitrobenzene	Ave	212689	199857		236	251	-6.0	15.0
Tetryl	Ave	193870	185453		240	251	-4.3	15.0
Nitroglycerin	Ave	71797	72253		2520	2500	0.6	15.0
2,4,6-Trinitrotoluene	Ave	220911	214769		244	251	-2.8	15.0
4-Amino-2,6-dinitrotoluene	Ave	173468	167261		241	250	-3.6	15.0
2-Amino-4,6-dinitrotoluene	Ave	217539	211231		244	251	-2.9	15.0
2,6-Dinitrotoluene	Ave	159404	154100		243	251	-3.3	15.0
2,4-Dinitrotoluene	Ave	321164	318000		249	251	-1.0	15.0
2-Nitrotoluene	Ave	143838	129648		225	250	-9.9	15.0
4-Nitrotoluene	Ave	120299	113126		236	251	-6.0	15.0
3-Nitrotoluene	Ave	154244	143065		232	250	-7.2	15.0
PETN	Ave	79456	78776		2480	2500	-0.9	15.0
1,2-Dinitrobenzene	Ave	146215	140988		241	250	-3.6	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: CCV 280-488785/36 Calibration Date: 03/16/2020 21:18
Instrument ID: CHHPLC_X3 Calib Start Date: 03/04/2020 14:07
GC Column: UltraCarb5uODS ID: 4.60 (mm) Calib End Date: 03/04/2020 16:47
Lab File ID: 03160036.D

Analyte	RT	RT WINDOW	
		FROM	TO
HMX	6.69	6.54	6.84
RDX	7.76	7.60	7.90
Picric acid	8.07	7.90	8.20
1,3,5-Trinitrobenzene	8.89	8.73	9.03
1,3-Dinitrobenzene	9.54	9.38	9.68
Nitrobenzene	9.92	9.76	10.06
Tetryl	10.23	10.06	10.36
Nitroglycerin	10.74	10.58	10.88
2,4,6-Trinitrotoluene	11.19	11.08	11.28
4-Amino-2,6-dinitrotoluene	11.35	11.23	11.43
2-Amino-4,6-dinitrotoluene	11.64	11.51	11.71
2,6-Dinitrotoluene	11.79	11.69	11.89
2,4-Dinitrotoluene	11.99	11.88	12.08
2-Nitrotoluene	12.83	12.67	12.97
4-Nitrotoluene	13.27	13.11	13.41
3-Nitrotoluene	13.86	13.71	14.01
PETN	14.95	14.81	15.11
1,2-Dinitrobenzene	8.71	8.56	8.86

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200316-90072.b\03160036.D
 Lims ID: CCV INT
 Client ID:
 Sample Type: CCV
 Inject. Date: 16-Mar-2020 21:18:52 ALS Bottle#: 7 Worklist Smp#: 36
 Injection Vol: 100.0 uL Dil. Factor: 1.0000
 Sample Info: CCV INT
 Misc. Info.: 280-0090072-036
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub9
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200316-90072.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 17-Mar-2020 12:04:39 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: CTX0339

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.693	6.685	0.008	22443	0.2500	0.2517	
7 RDX	1	7.760	7.745	0.015	27791	0.2500	0.2358	
8 2,4,6-Trinitrophenol	1	8.073	8.045	0.028	21689	0.2500	0.2486	
\$ 9 1,2-Dinitrobenzene	1	8.713	8.705	0.008	35247	0.2500	0.2411	
10 1,3,5-Trinitrobenzene	1	8.887	8.878	0.009	59818	0.2505	0.2457	
11 1,3-Dinitrobenzene	1	9.540	9.525	0.015	79307	0.2505	0.2446	
12 Nitrobenzene	1	9.920	9.911	0.009	50164	0.2510	0.2359	
14 Tetryl	1	10.227	10.211	0.016	46456	0.2505	0.2396	
15 Nitroglycerin	2	10.740	10.725	0.015	180633	2.50	2.52	
16 2,4,6-Trinitrotoluene	1	11.193	11.178	0.015	53907	0.2510	0.2440	
17 4-Amino-2,6-dinitrotoluene	1	11.347	11.325	0.022	41857	0.2503	0.2413	
18 2-Amino-4,6-dinitrotoluene	1	11.640	11.611	0.029	53019	0.2510	0.2437	
19 2,6-Dinitrotoluene	1	11.793	11.785	0.008	38679	0.2510	0.2426	
20 2,4-Dinitrotoluene	1	11.993	11.978	0.015	79818	0.2510	0.2485	
21 o-Nitrotoluene	1	12.833	12.818	0.015	32412	0.2500	0.2253	
22 p-Nitrotoluene	1	13.267	13.258	0.009	28338	0.2505	0.2356	
23 m-Nitrotoluene	1	13.860	13.858	0.002	35802	0.2503	0.2321	
24 PETN	2	14.953	14.958	-0.005	196941	2.50	2.48	

Reagents:

8330\TermStk_00061 Amount Added: 25.00 Units: uL

Report Date: 17-Mar-2020 12:04:40

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200316-90072.b\\03160036.d

Injection Date: 16-Mar-2020 21:18:52

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: CCV INT

Worklist Smp#: 36

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

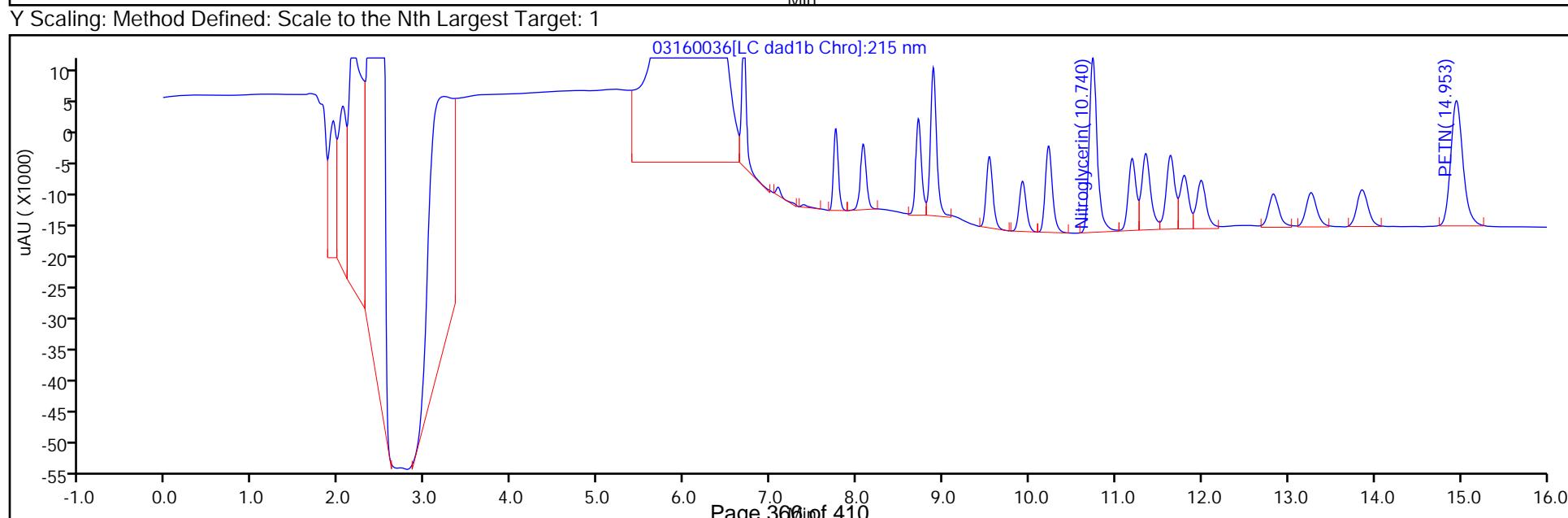
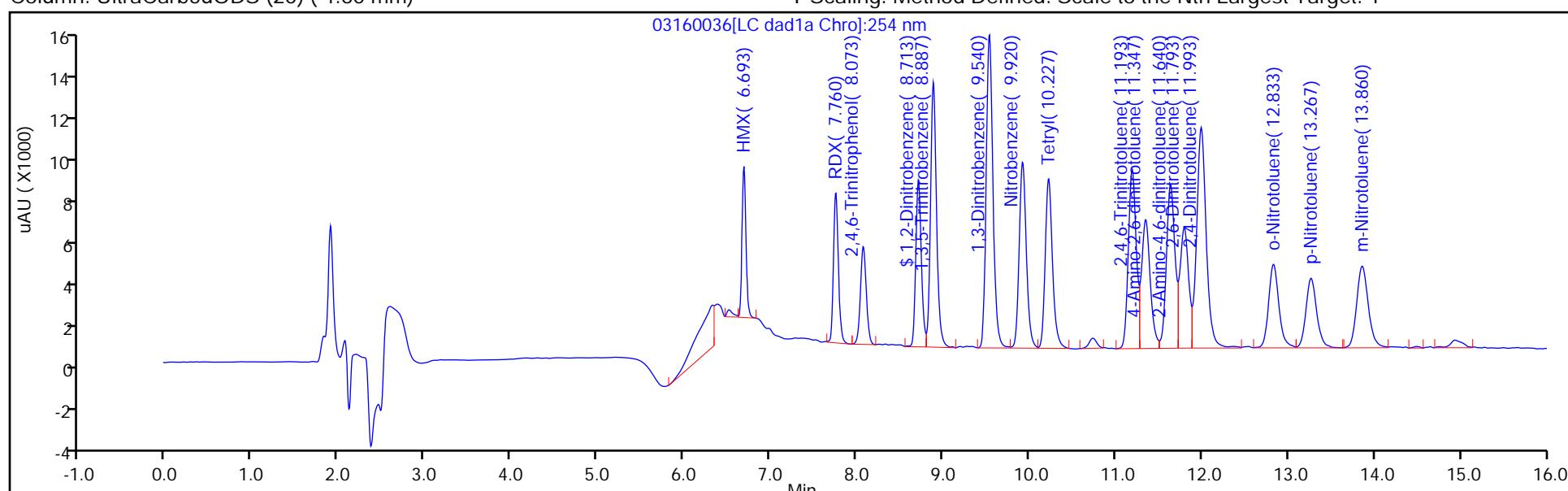
ALS Bottle#: 7

Method: 8330_X3

Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

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



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1

SDG No.: _____

Lab Sample ID: CCV 280-488785/38 Calibration Date: 03/16/2020 22:04

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: 03160038.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
TNX	Ave	217609	238350		274	250	9.5	15.0
DNX	Ave	152928	173950		285	250	13.7	15.0
MNX	Ave	158544	162790		300	292	2.7	15.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Lab Sample ID: CCV 280-488785/38 Calibration Date: 03/16/2020 22:04
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: 03160038.D

Analyte	RT	RT WINDOW	
		FROM	TO
TNX	6.60	6.49	6.69
DNX	6.92	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\20200316-90072.b\03160038.D
 Lims ID: CCV DMT
 Client ID:
 Sample Type: CCV
 Inject. Date: 16-Mar-2020 22:04:43 ALS Bottle#: 9 Worklist Smp#: 38
 Injection Vol: 100.0 uL Dil. Factor: 1.0000
 Sample Info: CCV DMT
 Misc. Info.: 280-0090072-038
 Operator ID: CB Instrument ID: CHHPLC_X3
 Sublist: chrom-8330_X3*sub17
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200316-90072.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 17-Mar-2020 12:04:34 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: CTX0339

First Level Reviewer: beckerc

Date:

17-Mar-2020 11:49:11

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.597	6.594	0.003	59647	0.2503	0.2741	M
5 DNX	1	6.917	6.914	0.003	43531	0.2503	0.2846	M
6 MNX	1	7.357	7.361	-0.004	47494	0.2918	0.2996	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8330 DMT_00005

Amount Added: 12.50

Units: uL

Report Date: 17-Mar-2020 12:04:35

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200316-90072.b\\03160038.d

Injection Date: 16-Mar-2020 22:04:43

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: CCV DMT

Worklist Smp#: 38

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

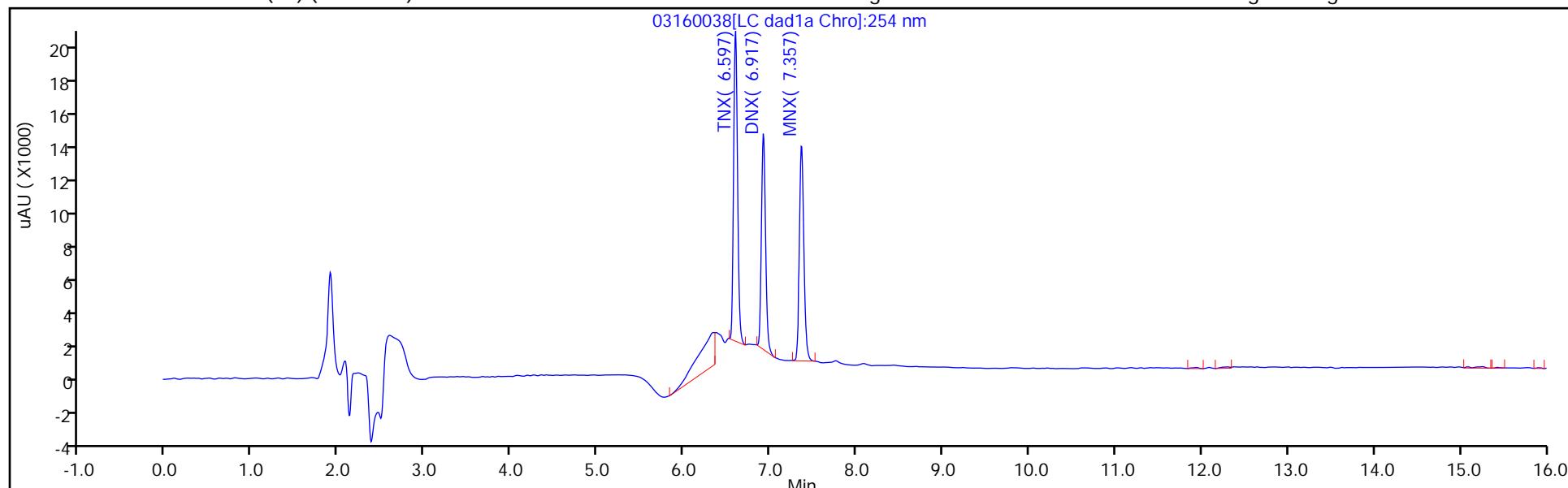
ALS Bottle#: 9

Method: 8330_X3

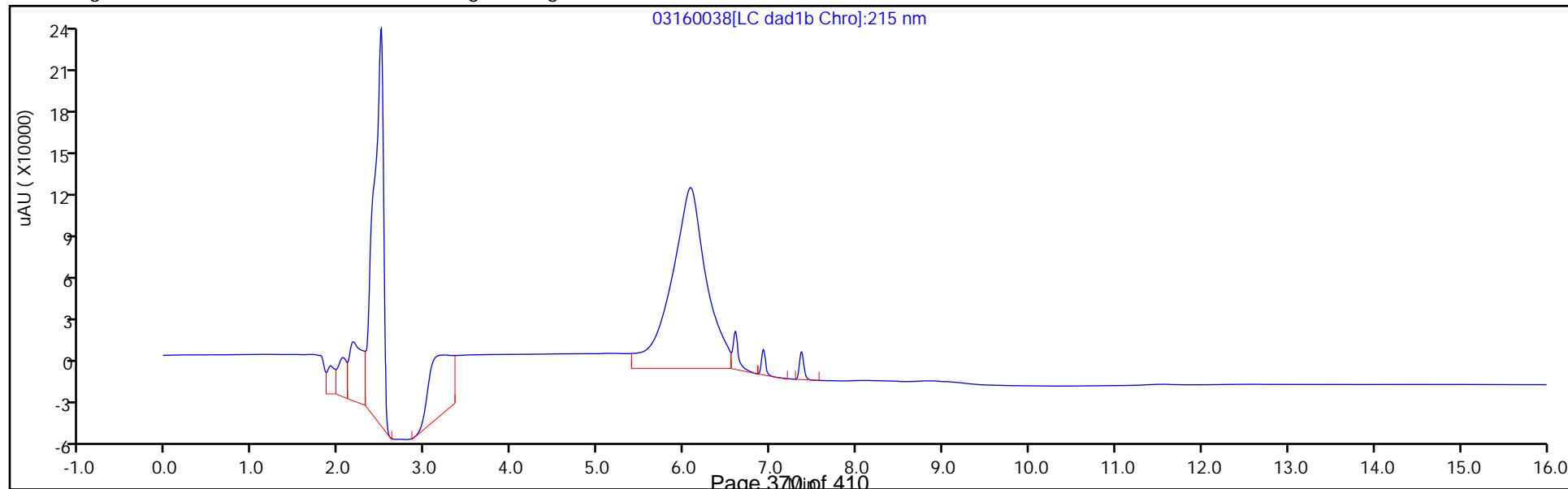
Limit Group: GCSV - 8330

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



Eurofins TestAmerica, Denver

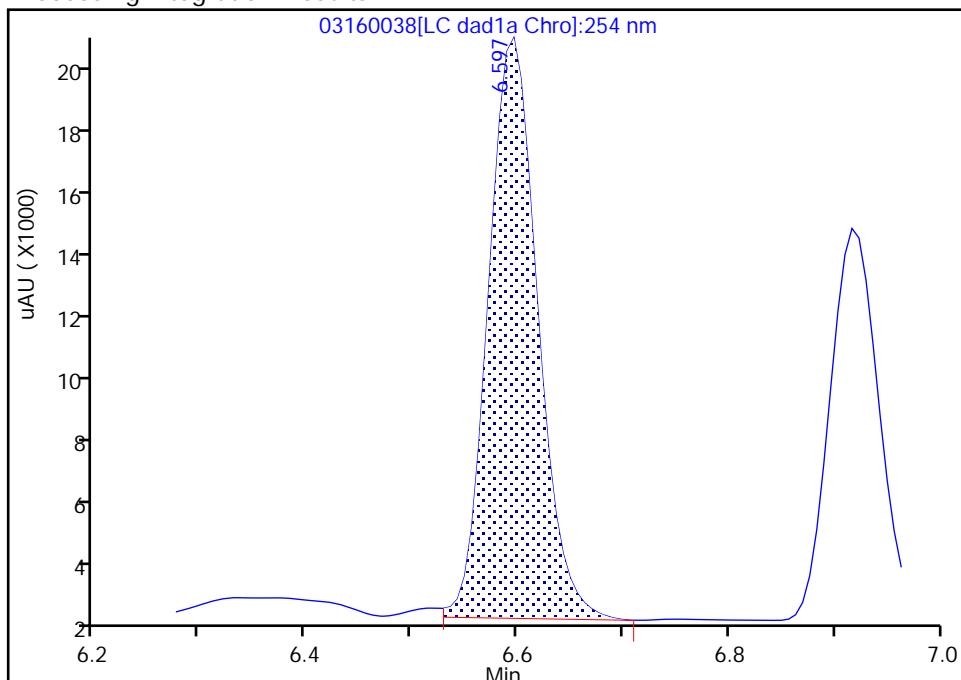
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 Injection Date: 16-Mar-2020 22:04:43 Instrument ID: CHHPLC_X3
 Lims ID: CCV DMT
 Client ID:
 Operator ID: CB ALS Bottle#: 9 Worklist Smp#: 38
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

2 TNX, CAS: 13980-04-6

Signal: 1

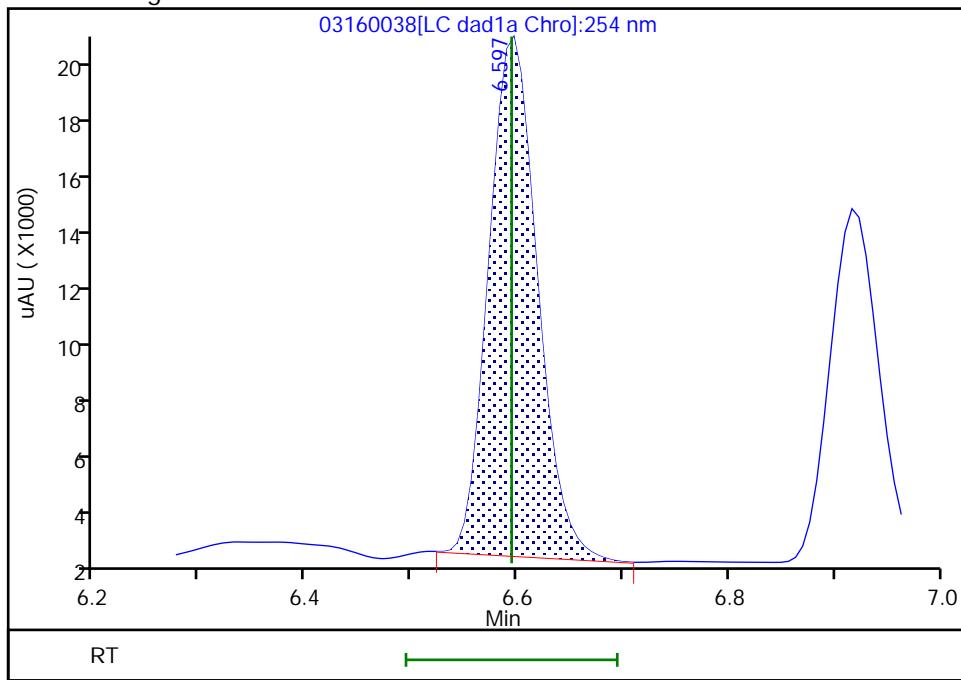
RT: 6.60
 Area: 60828
 Amount: 0.279529
 Amount Units: ug/mL

Processing Integration Results



RT: 6.60
 Area: 59647
 Amount: 0.274102
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 17-Mar-2020 11:49:01

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Denver

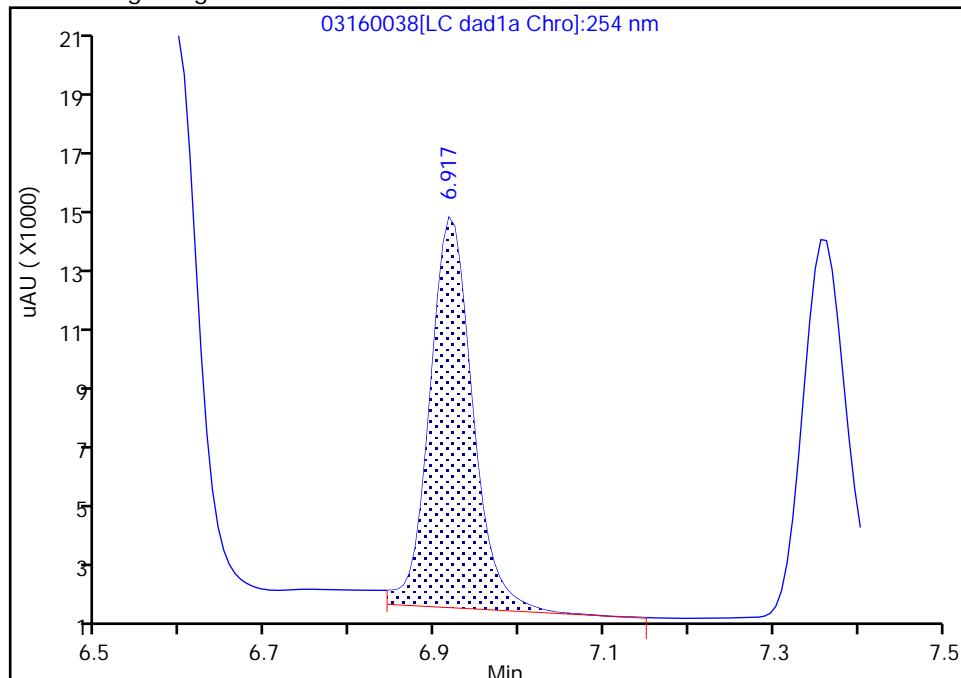
Data File: \\chromna\denver\chromdata\chhplc_x\20200316-90072.b\03160038.d
 Injection Date: 16-Mar-2020 22:04:43 Instrument ID: CHHPLC_X3
 Lims ID: CCV DMT
 Client ID:
 Operator ID: CB ALS Bottle#: 9 Worklist Smp#: 38
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

5 DNX, CAS: 80251-29-2

Signal: 1

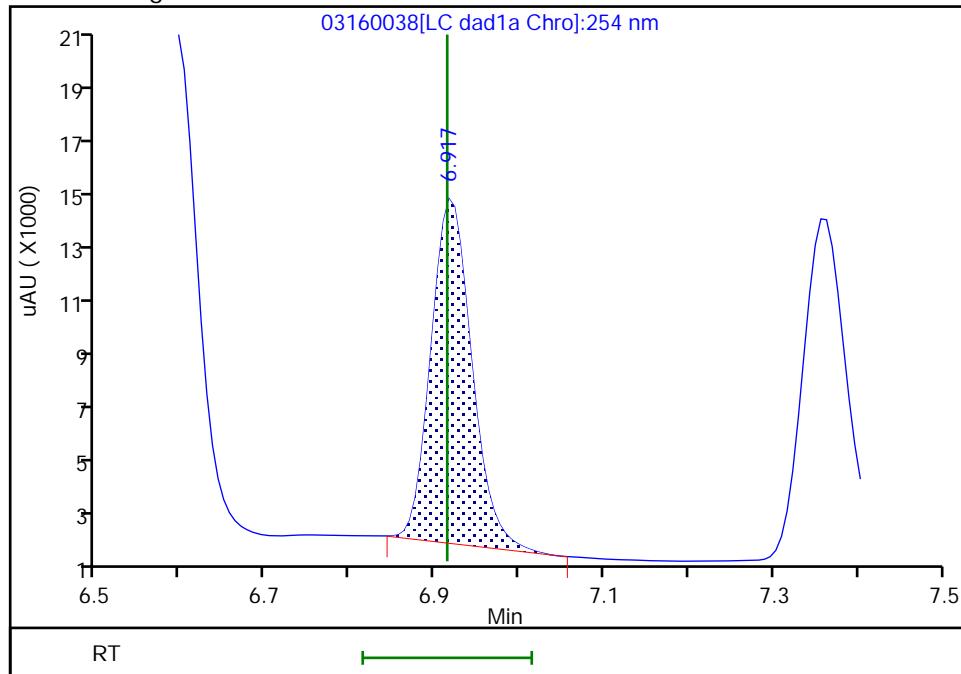
RT: 6.92
 Area: 46661
 Amount: 0.305117
 Amount Units: ug/mL

Processing Integration Results



RT: 6.92
 Area: 43531
 Amount: 0.284650
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 17-Mar-2020 11:49:06

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 280-488301/1-A
Matrix: Water Lab File ID: 03130010.D
Analysis Method: 8330A Date Collected: _____
Extraction Method: 3535 Date Extracted: 03/10/2020 19:07
Sample wt/vol: 500 (mL) Date Analyzed: 03/13/2020 16:52
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.: 488648 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.40	U	1.0	0.40	0.20
99-65-0	1,3-Dinitrobenzene	0.20	U	0.40	0.20	0.089
118-96-7	2,4,6-Trinitrotoluene	0.40	U	0.40	0.40	0.16
121-14-2	2,4-Dinitrotoluene	0.20	U	0.40	0.20	0.084
606-20-2	2,6-Dinitrotoluene	0.20	U	0.20	0.20	0.065
35572-78-2	2-Amino-4,6-dinitrotoluene	0.12	U	0.20	0.12	0.051
88-72-2	2-Nitrotoluene	0.20	U	0.40	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	0.20	0.12	0.058
99-99-0	4-Nitrotoluene	0.40	U	1.0	0.40	0.20
2691-41-0	HMX	0.20	U	0.40	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	0.40	0.20	0.091
121-82-4	RDX	0.40	U	0.40	0.40	0.16
479-45-8	Tetryl	0.20	U	0.24	0.20	0.079

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	88		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\03130010.D
 Lims ID: MB 280-488301/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 13-Mar-2020 16:52:10 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: MB 280-488301/1-
 Misc. Info.: 280-0090034-010
 Operator ID: CB Instrument ID: CHHPLC_X3
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 16-Mar-2020 12:00:23 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: CTX0303

First Level Reviewer: beckerc Date: 16-Mar-2020 10:43:02

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	6.548				ND		U
2 TNX	1	6.594				ND		
3 HMX	1	6.691				ND		
4 2,4-diamino-6-nitrotoluene	1	6.735				ND		
5 DNX	1	6.914				ND		
6 MNX	1	7.361				ND		U
7 RDX	1	7.758				ND		
8 2,4,6-Trinitrophenol	1	8.095	8.091	0.004	1657		0.0190	
\$ 9 1,2-Dinitrobenzene	1	8.721	8.718	0.003	25590	0.2000	0.1750	
10 1,3,5-Trinitrobenzene	1	8.891				ND		
11 1,3-Dinitrobenzene	1	9.544				ND		
12 Nitrobenzene	1	9.931				ND		
13 3,5-Dinitroaniline	1	10.142				ND		
14 Tetryl	1	10.231				ND		
15 Nitroglycerin	2	10.744				ND		
16 2,4,6-Trinitrotoluene	1	11.197				ND		
17 4-Amino-2,6-dinitrotoluene	1	11.357				ND		
18 2-Amino-4,6-dinitrotoluene	1	11.644				ND		
19 2,6-Dinitrotoluene	1	11.804				ND		
20 2,4-Dinitrotoluene	1	11.997				ND		
21 o-Nitrotoluene	1	12.837				ND		
22 p-Nitrotoluene	1	13.271				ND		
23 m-Nitrotoluene	1	13.864				ND		
24 PETN	2	14.964				ND		
25 Ammonium Picrate	1	0.000				ND		

QC Flag Legend

Review Flags

U - Marked Undetected

Report Date: 16-Mar-2020 12:00:45

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200313-90034.b\\03130010.d

Injection Date: 13-Mar-2020 16:52:10

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: MB 280-488301/1-A

Worklist Smp#: 10

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

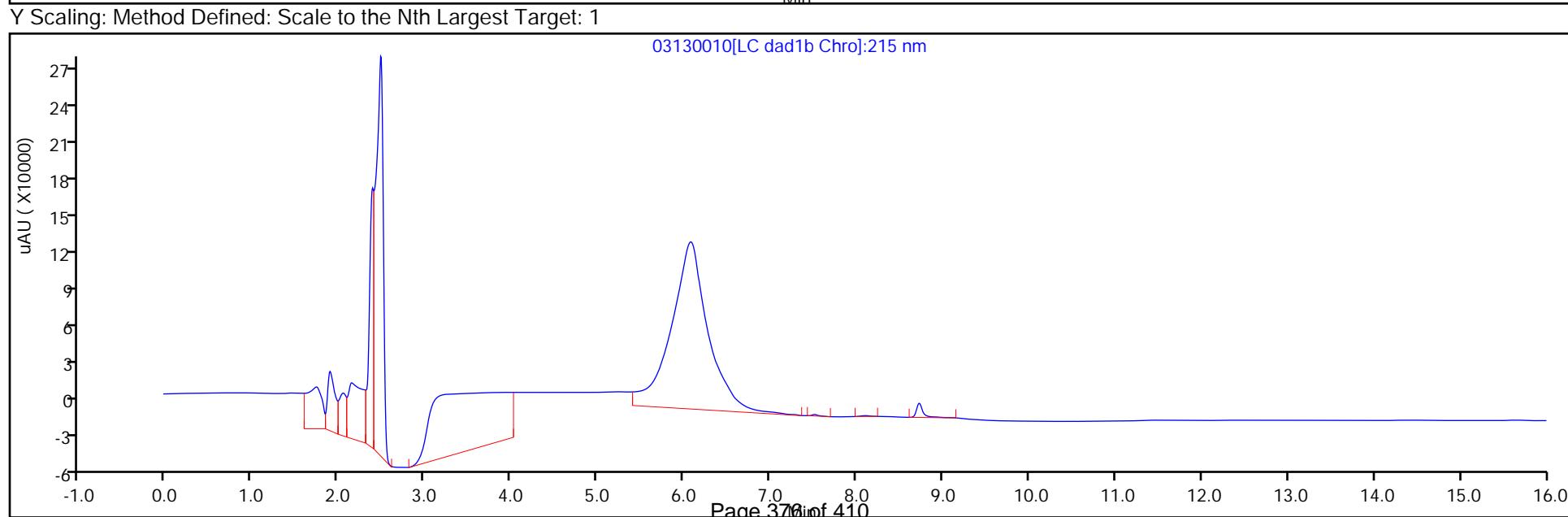
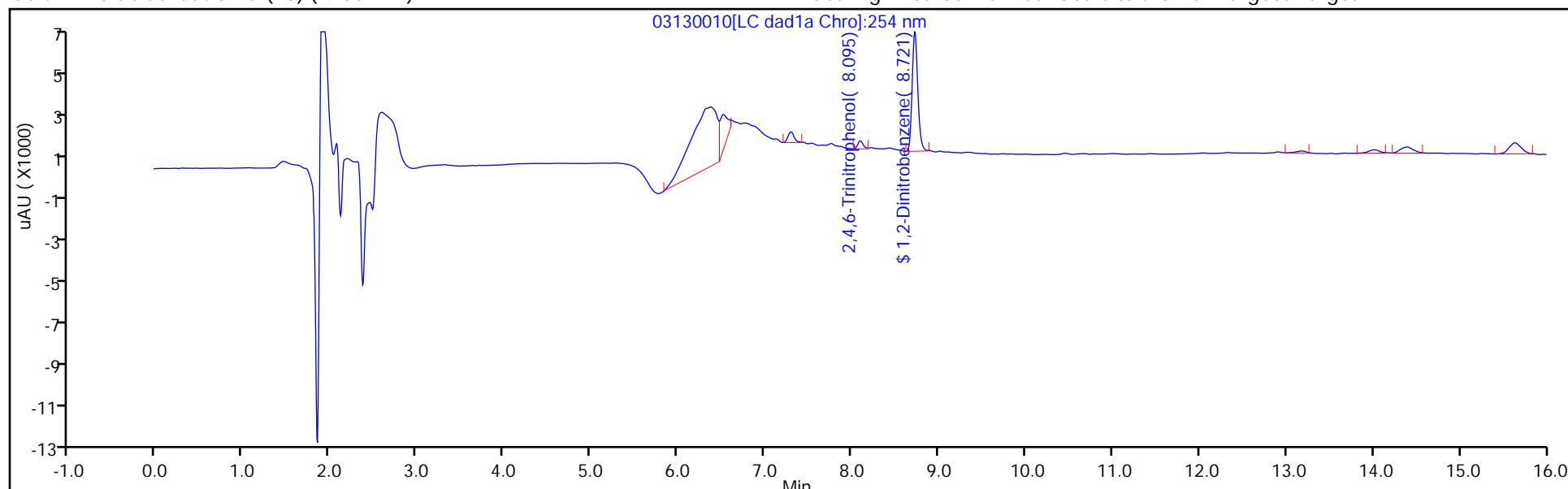
ALS Bottle#: 10

Method: 8330_X3

Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

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



Eurofins TestAmerica, Denver
Recovery Report

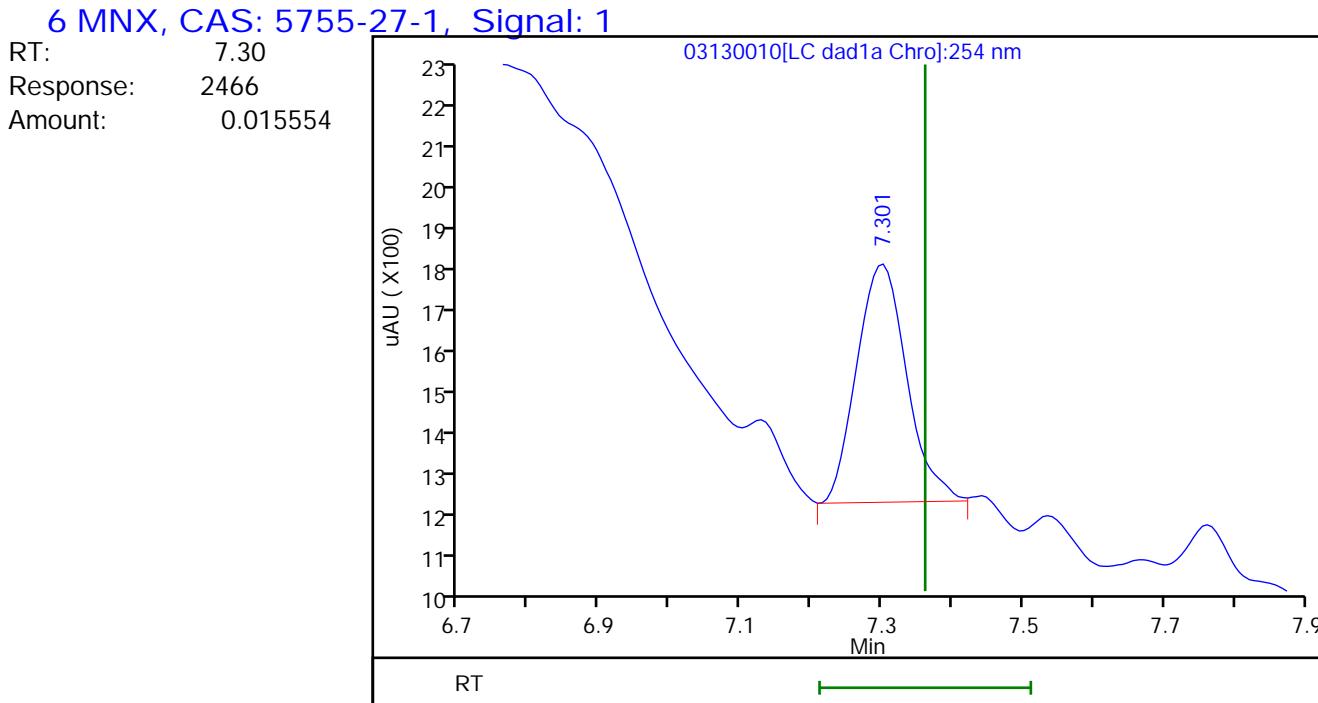
Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\03130010.D
 Lims ID: MB 280-488301/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 13-Mar-2020 16:52:10 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: MB 280-488301/1-
 Misc. Info.: 280-0090034-010
 Operator ID: CB Instrument ID: CHHPLC_X3
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 16-Mar-2020 12:00:23 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: CTX0303

First Level Reviewer: beckerc Date: 16-Mar-2020 10:43:02

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,2-Dinitrobenzene	0.2000	0.1750	87.51

Eurofins TestAmerica, Denver

Data File: \\chromna\denver\chromdata\chhplc_x\20200313-90034.b\03130010.d
Injection Date: 13-Mar-2020 16:52:10 Instrument ID: CHHPLC_X3
Lims ID: MB 280-488301/1-A
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



Reviewer: beckerc, 16-Mar-2020 10:48:11

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.: 280-134369-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 280-488301/2-A
Matrix: Water Lab File ID: 03130011.D
Analysis Method: 8330A Date Collected: _____
Extraction Method: 3535 Date Extracted: 03/10/2020 19:07
Sample wt/vol: 500 (mL) Date Analyzed: 03/13/2020 17:15
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.: 488648 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	1.75		1.0	0.40	0.20
99-65-0	1,3-Dinitrobenzene	1.59		0.40	0.20	0.089
118-96-7	2,4,6-Trinitrotoluene	1.71		0.40	0.40	0.16
121-14-2	2,4-Dinitrotoluene	1.54	Q	0.40	0.20	0.084
606-20-2	2,6-Dinitrotoluene	1.64		0.20	0.20	0.065
35572-78-2	2-Amino-4,6-dinitrotoluene	1.50	Q	0.20	0.12	0.051
88-72-2	2-Nitrotoluene	1.19	Q	0.40	0.20	0.086
99-08-1	3-Nitrotoluene	1.31	Q	0.40	0.40	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.48	Q	0.20	0.12	0.058
99-99-0	4-Nitrotoluene	1.28	Q	1.0	0.40	0.20
2691-41-0	HMX	1.79	M	0.40	0.20	0.088
98-95-3	Nitrobenzene	1.28	Q	0.40	0.20	0.091
121-82-4	RDX	1.74		0.40	0.40	0.16
479-45-8	Tetryl	1.63		0.24	0.20	0.079

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	85		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\03130011.D
 Lims ID: LCS 280-488301/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 13-Mar-2020 17:15:07 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 280-488301/2
 Misc. Info.: 280-0090034-011
 Operator ID: CB Instrument ID: CHHPLC_X3
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 16-Mar-2020 12:00:23 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: CTX0303

First Level Reviewer: beckerc

Date:

16-Mar-2020 10:48:39

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	6.691	-0.002	15924	0.2000	0.1786	M
7 RDX	1	7.763	7.758	0.005	20526	0.2000	0.1741	
8 2,4,6-Trinitrophenol	1	8.083	8.091	-0.008	16864	0.2000	0.1933	
\$ 9 1,2-Dinitrobenzene	1	8.723	8.718	0.005	24721	0.2000	0.1691	
10 1,3,5-Trinitrobenzene	1	8.896	8.891	0.005	42689	0.2000	0.1753	
11 1,3-Dinitrobenzene	1	9.543	9.544	-0.001	51535	0.2000	0.1589	
12 Nitrobenzene	1	9.929	9.931	-0.002	27264	0.2000	0.1282	
14 Tetryl	1	10.236	10.231	0.005	31509	0.2000	0.1625	
15 Nitroglycerin	2	10.749	10.744	0.005	126381	2.00	1.76	
16 2,4,6-Trinitrotoluene	1	11.203	11.197	0.006	37696	0.2000	0.1706	
17 4-Amino-2,6-dinitrotoluene	1	11.363	11.357	0.006	25673	0.2000	0.1480	
18 2-Amino-4,6-dinitrotoluene	1	11.649	11.644	0.005	32587	0.2000	0.1498	
19 2,6-Dinitrotoluene	1	11.803	11.804	-0.001	26076	0.2000	0.1636	
20 2,4-Dinitrotoluene	1	12.003	11.997	0.006	49414	0.2000	0.1539	
21 o-Nitrotoluene	1	12.843	12.837	0.006	17088	0.2000	0.1188	
22 p-Nitrotoluene	1	13.276	13.271	0.005	15446	0.2000	0.1284	
23 m-Nitrotoluene	1	13.869	13.864	0.005	20249	0.2000	0.1313	
24 PETN	2	14.963	14.964	-0.001	142311	2.00	1.79	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 16-Mar-2020 12:00:43

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200313-90034.b\\03130011.d

Injection Date: 13-Mar-2020 17:15:07

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: LCS 280-488301/2-A

Worklist Smp#: 11

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

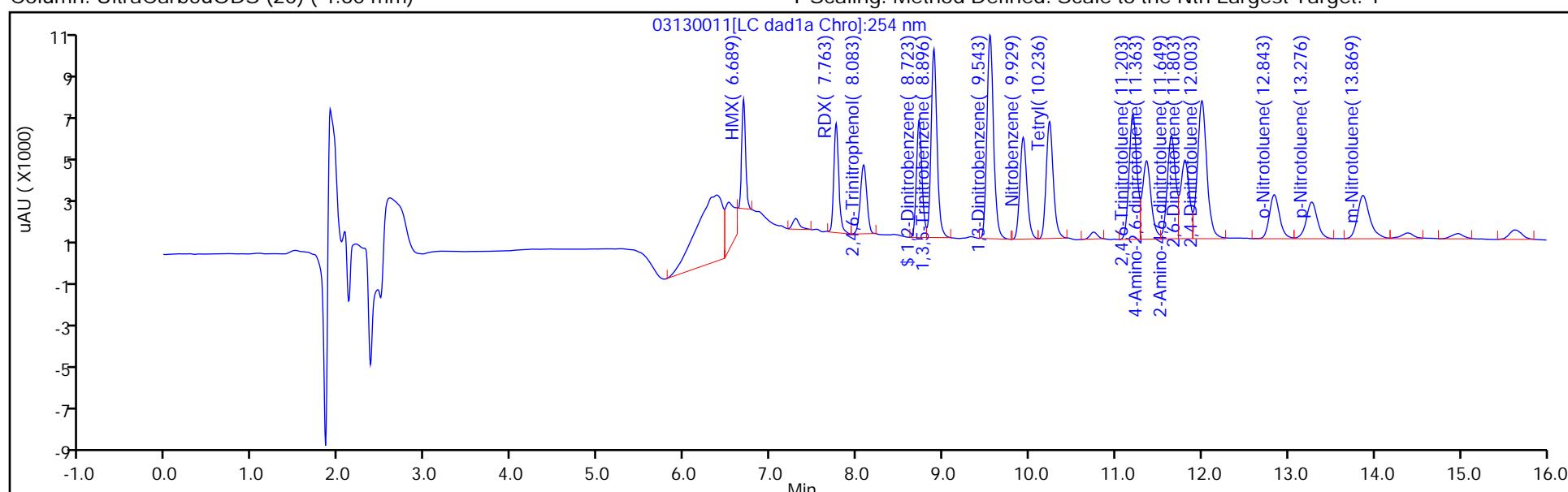
ALS Bottle#: 11

Method: 8330_X3

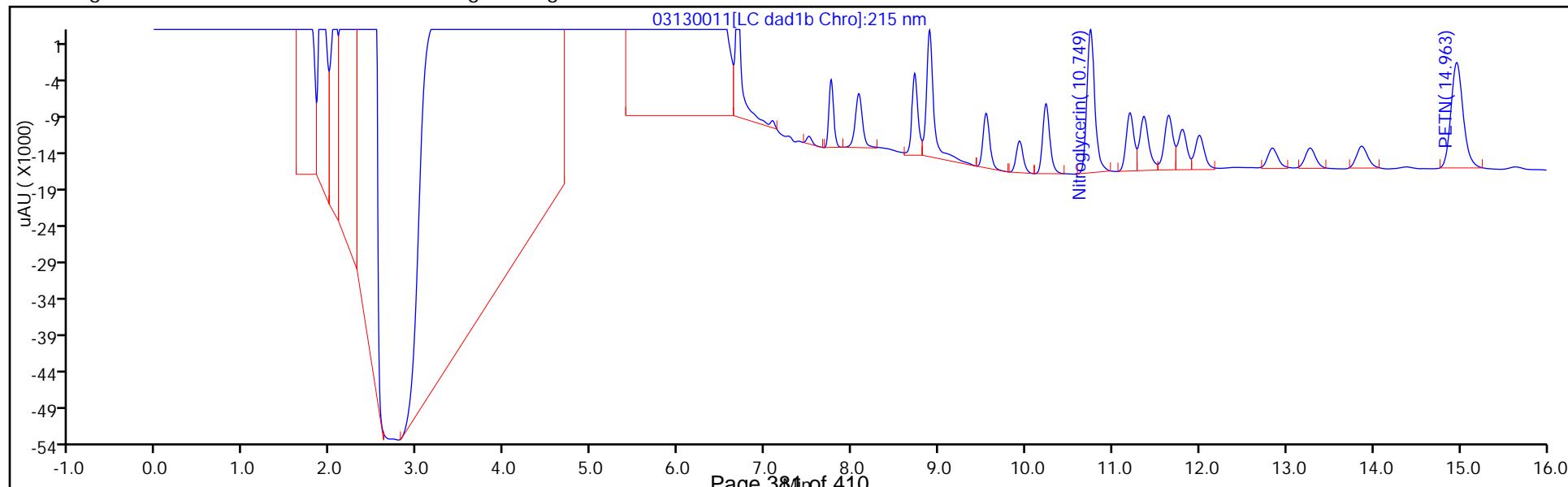
Limit Group: GCSV - 8330

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: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\03130011.D
 Lims ID: LCS 280-488301/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 13-Mar-2020 17:15:07 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 280-488301/2
 Misc. Info.: 280-0090034-011
 Operator ID: CB Instrument ID: CHHPLC_X3
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 16-Mar-2020 12:00:23 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: CTX0303

First Level Reviewer: beckerc Date: 16-Mar-2020 10:48:39

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,2-Dinitrobenzene	0.2000	0.1691	84.54

Eurofins TestAmerica, Denver

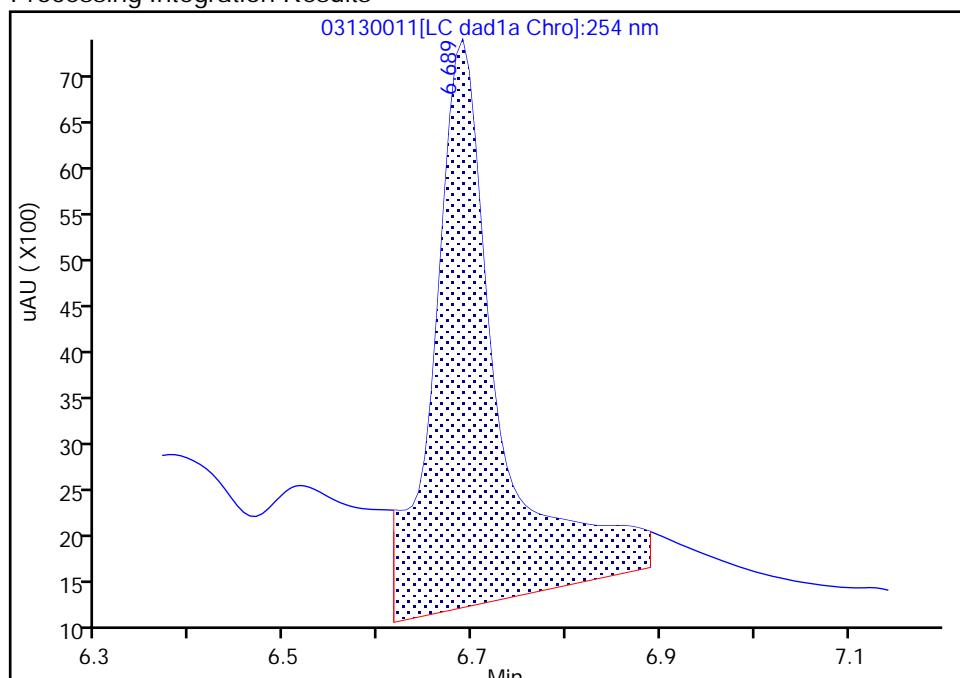
Data File: \\chromna\denver\chromdata\chhplc_x\20200313-90034.b\03130011.d
 Injection Date: 13-Mar-2020 17:15:07 Instrument ID: CHHPLC_X3
 Lims ID: LCS 280-488301/2-A
 Client ID:
 Operator ID: CB ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

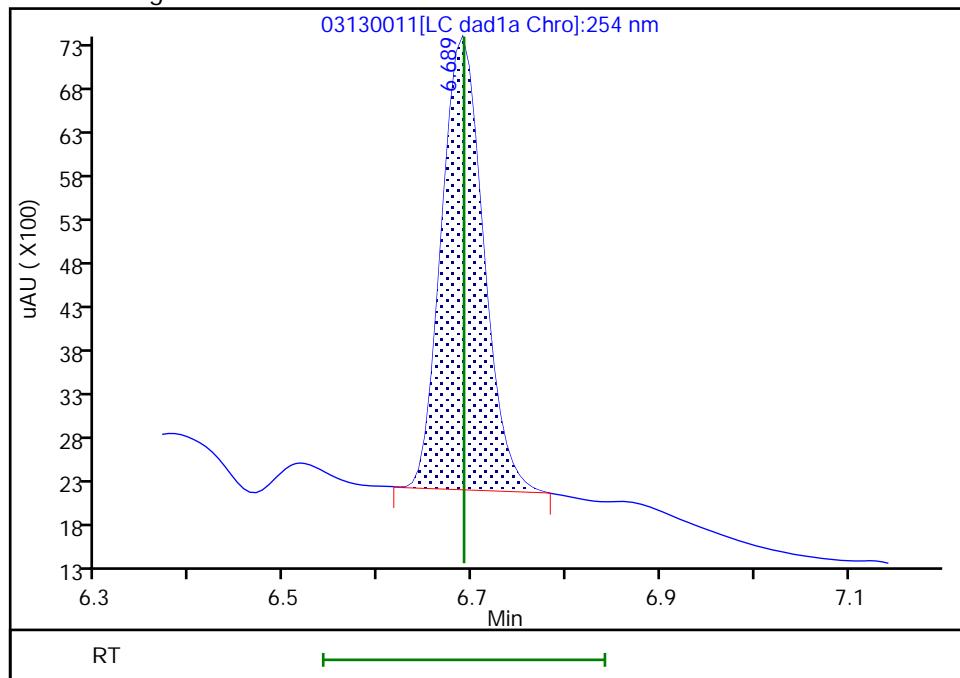
RT: 6.69
 Area: 29591
 Amount: 0.331821
 Amount Units: ug/mL

Processing Integration Results



RT: 6.69
 Area: 15924
 Amount: 0.178565
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 16-Mar-2020 10:48:25

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 280-488301/6-A
Matrix: Water Lab File ID: 03130015.D
Analysis Method: 8330A Date Collected: _____
Extraction Method: 3535 Date Extracted: 03/10/2020 19:07
Sample wt/vol: 500 (mL) Date Analyzed: 03/13/2020 18:46
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.: 488648 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
5755-27-1	MNX	2.11		2.0	0.40	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	89		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\03130015.D
 Lims ID: LCS 280-488301/6-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 13-Mar-2020 18:46:58 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 280-488301/6
 Misc. Info.: 280-0090034-015
 Operator ID: CB Instrument ID: CHHPLC_X3
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 16-Mar-2020 12:00:23 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: CTX0303

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
2 TNX	1	6.595	6.594	0.001	40277	0.2002	0.1851	
5 DNX	1	6.922	6.914	0.008	30687	0.2002	0.2007	
6 MNX	1	7.362	7.361	0.001	33521	0.2334	0.2114	
\$ 9 1,2-Dinitrobenzene	1	8.728	8.718	0.010	25925	0.2000	0.1773	

Report Date: 16-Mar-2020 12:00:37

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200313-90034.b\\03130015.d

Injection Date: 13-Mar-2020 18:46:58

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: LCS 280-488301/6-A

Worklist Smp#: 15

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

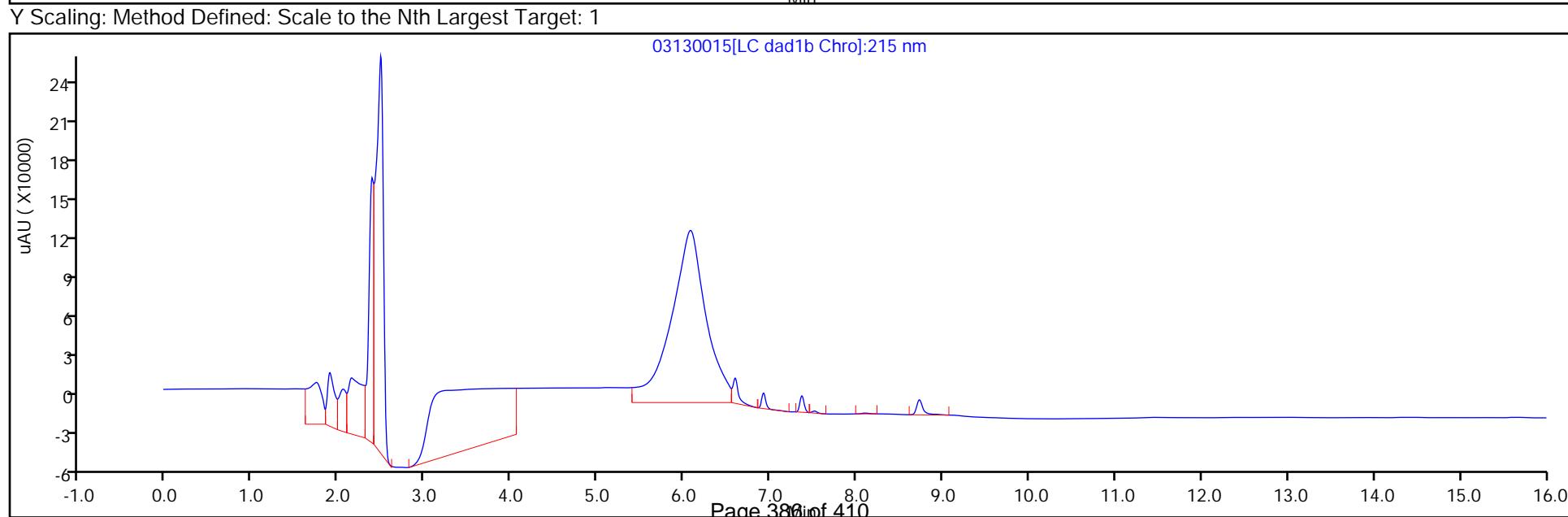
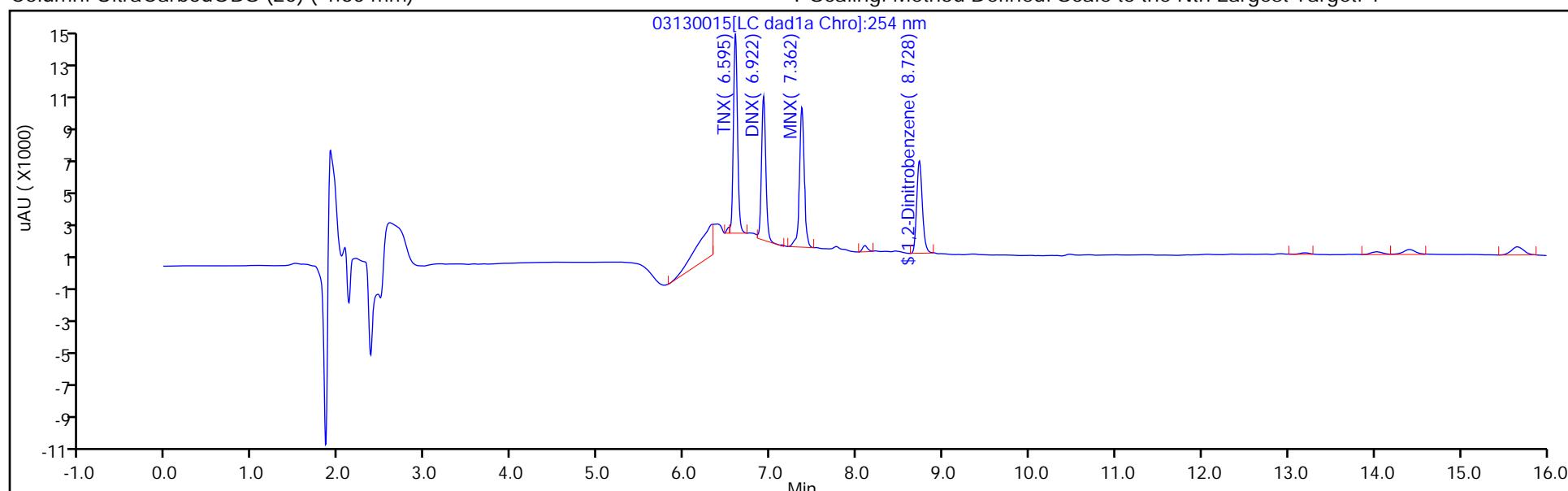
ALS Bottle#: 15

Method: 8330_X3

Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

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



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\03130015.D
 Lims ID: LCS 280-488301/6-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 13-Mar-2020 18:46:58 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 280-488301/6
 Misc. Info.: 280-0090034-015
 Operator ID: CB Instrument ID: CHHPLC_X3
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 16-Mar-2020 12:00:23 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: CTX0303

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,2-Dinitrobenzene	0.2000	0.1773	88.65

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 280-488301/3-A
Matrix: Water Lab File ID: 03130012.D
Analysis Method: 8330A Date Collected: _____
Extraction Method: 3535 Date Extracted: 03/10/2020 19:07
Sample wt/vol: 500 (mL) Date Analyzed: 03/13/2020 17:38
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.: 488648 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	1.93		1.0	0.40	0.20
99-65-0	1,3-Dinitrobenzene	1.81		0.40	0.20	0.089
118-96-7	2,4,6-Trinitrotoluene	1.83		0.40	0.40	0.16
121-14-2	2,4-Dinitrotoluene	1.73		0.40	0.20	0.084
606-20-2	2,6-Dinitrotoluene	1.76		0.20	0.20	0.065
35572-78-2	2-Amino-4,6-dinitrotoluene	1.71		0.20	0.12	0.051
88-72-2	2-Nitrotoluene	1.39		0.40	0.20	0.086
99-08-1	3-Nitrotoluene	1.59		0.40	0.40	0.20
19406-51-0	4-Amino-2,6-dinitrotoluene	1.64		0.20	0.12	0.058
99-99-0	4-Nitrotoluene	1.56		1.0	0.40	0.20
2691-41-0	HMX	1.93	M	0.40	0.20	0.088
98-95-3	Nitrobenzene	1.56		0.40	0.20	0.091
121-82-4	RDX	1.88		0.40	0.40	0.16
479-45-8	Tetryl	1.71		0.24	0.20	0.079

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	91		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\03130012.D
 Lims ID: LCSD 280-488301/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 13-Mar-2020 17:38:01 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 280-488301/
 Misc. Info.: 280-0090034-012
 Operator ID: CB Instrument ID: CHHPLC_X3
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 16-Mar-2020 12:00:23 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: CTX0303

First Level Reviewer: beckerc

Date:

16-Mar-2020 10:50:56

Compound	Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
3 HMX	1	6.682	6.691	-0.009	17250	0.2000	0.1934	M
7 RDX	1	7.755	7.758	-0.003	22211	0.2000	0.1884	
8 2,4,6-Trinitrophenol	1	8.075	8.091	-0.016	17232	0.2000	0.1975	
\$ 9 1,2-Dinitrobenzene	1	8.722	8.718	0.004	26499	0.2000	0.1812	
10 1,3,5-Trinitrobenzene	1	8.888	8.891	-0.003	47082	0.2000	0.1934	
11 1,3-Dinitrobenzene	1	9.542	9.544	-0.002	58720	0.2000	0.1811	
12 Nitrobenzene	1	9.928	9.931	-0.003	33086	0.2000	0.1556	
14 Tetryl	1	10.235	10.231	0.004	33129	0.2000	0.1709	
15 Nitroglycerin	2	10.748	10.744	0.004	132478	2.00	1.85	
16 2,4,6-Trinitrotoluene	1	11.202	11.197	0.005	40426	0.2000	0.1830	
17 4-Amino-2,6-dinitrotoluene	1	11.362	11.357	0.005	28461	0.2000	0.1641	
18 2-Amino-4,6-dinitrotoluene	1	11.648	11.644	0.004	37285	0.2000	0.1714	
19 2,6-Dinitrotoluene	1	11.808	11.804	0.004	28076	0.2000	0.1761	
20 2,4-Dinitrotoluene	1	12.002	11.997	0.005	55636	0.2000	0.1732	
21 o-Nitrotoluene	1	12.842	12.837	0.005	20056	0.2000	0.1394	
22 p-Nitrotoluene	1	13.275	13.271	0.004	18733	0.2000	0.1557	
23 m-Nitrotoluene	1	13.875	13.864	0.011	24471	0.2000	0.1587	
24 PETN	2	14.968	14.964	0.004	149062	2.00	1.88	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 16-Mar-2020 12:00:41

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200313-90034.b\\03130012.d

Injection Date: 13-Mar-2020 17:38:01

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: LCSD 280-488301/3-A

Worklist Smp#: 12

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

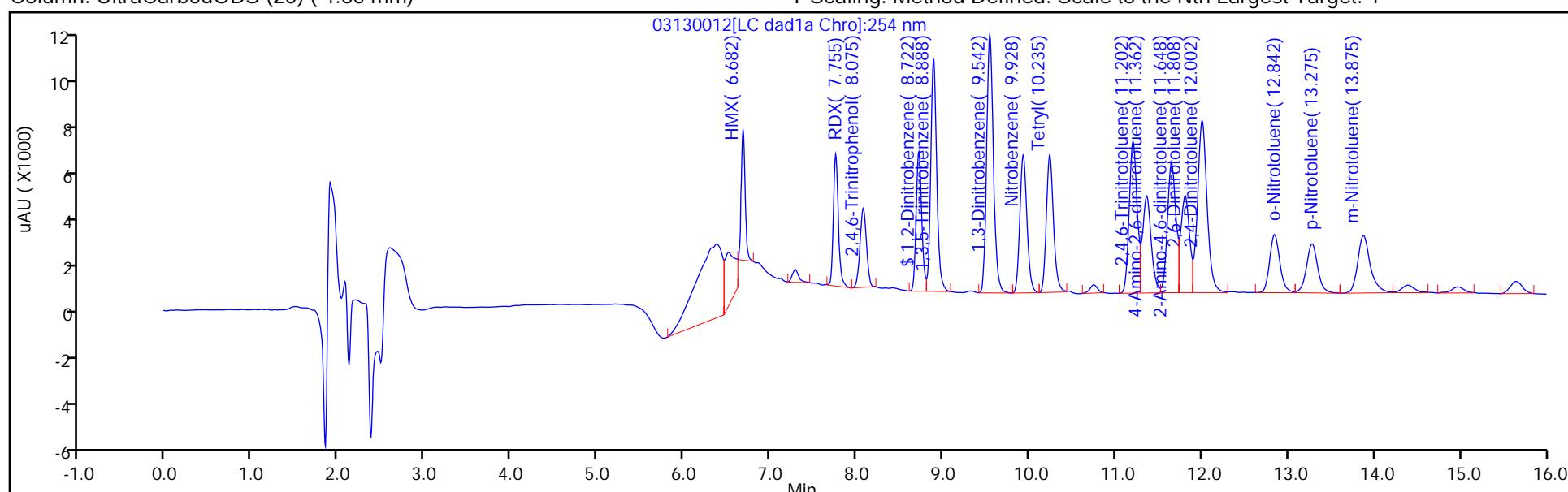
ALS Bottle#: 12

Method: 8330_X3

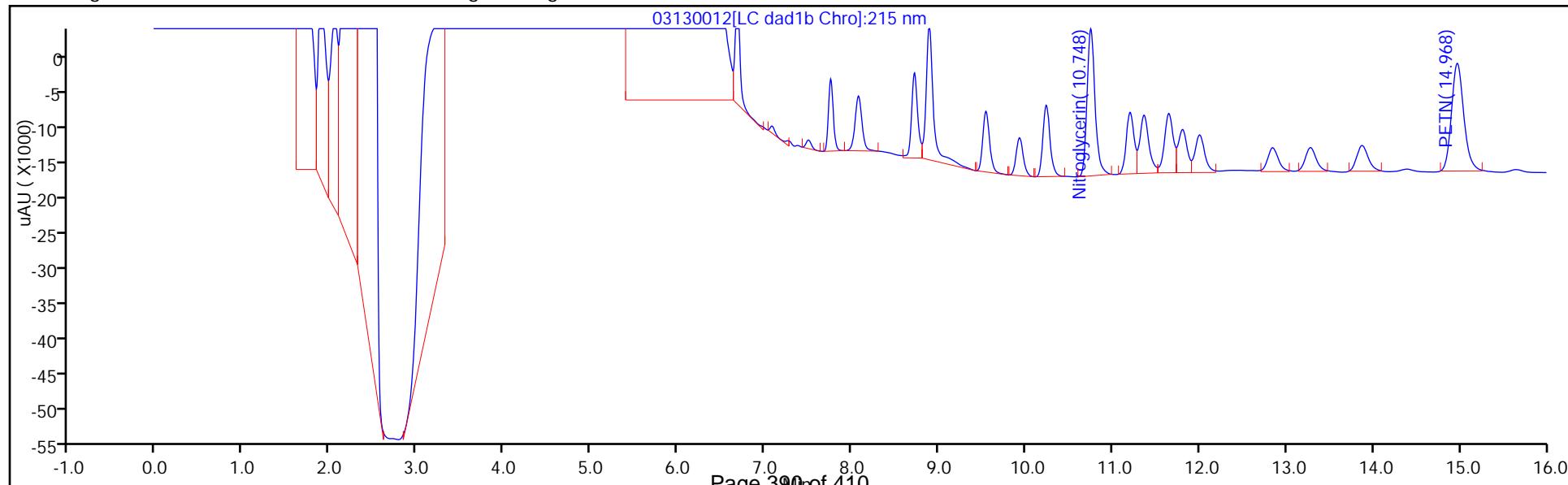
Limit Group: GCSV - 8330

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: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\03130012.D
 Lims ID: LCSD 280-488301/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 13-Mar-2020 17:38:01 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 280-488301/
 Misc. Info.: 280-0090034-012
 Operator ID: CB Instrument ID: CHHPLC_X3
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 16-Mar-2020 12:00:23 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: CTX0303

First Level Reviewer: beckerc Date: 16-Mar-2020 10:50:56

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,2-Dinitrobenzene	0.2000	0.1812	90.62

Eurofins TestAmerica, Denver

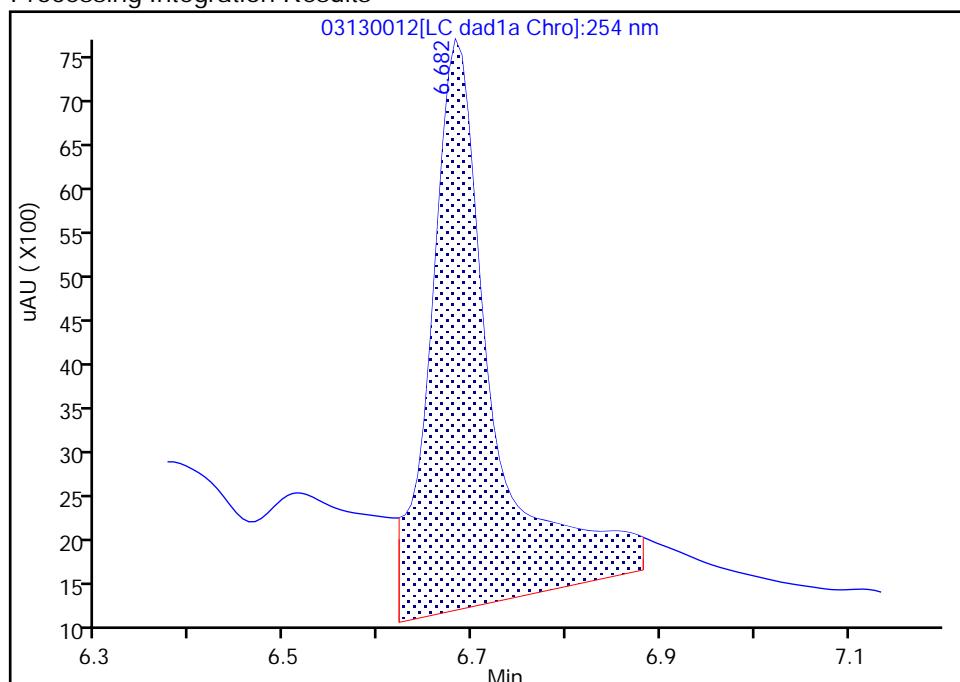
Data File: \\chromna\denver\chromdata\chhplc_x\20200313-90034.b\03130012.d
 Injection Date: 13-Mar-2020 17:38:01 Instrument ID: CHHPLC_X3
 Lims ID: LCSD 280-488301/3-A
 Client ID:
 Operator ID: CB ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Method: 8330_X3 Limit Group: GCSV - 8330
 Column: UltraCarb5uODS (20) (4.60 mm) Detector: LC DAD1B, 254 nm

3 HMX, CAS: 2691-41-0

Signal: 1

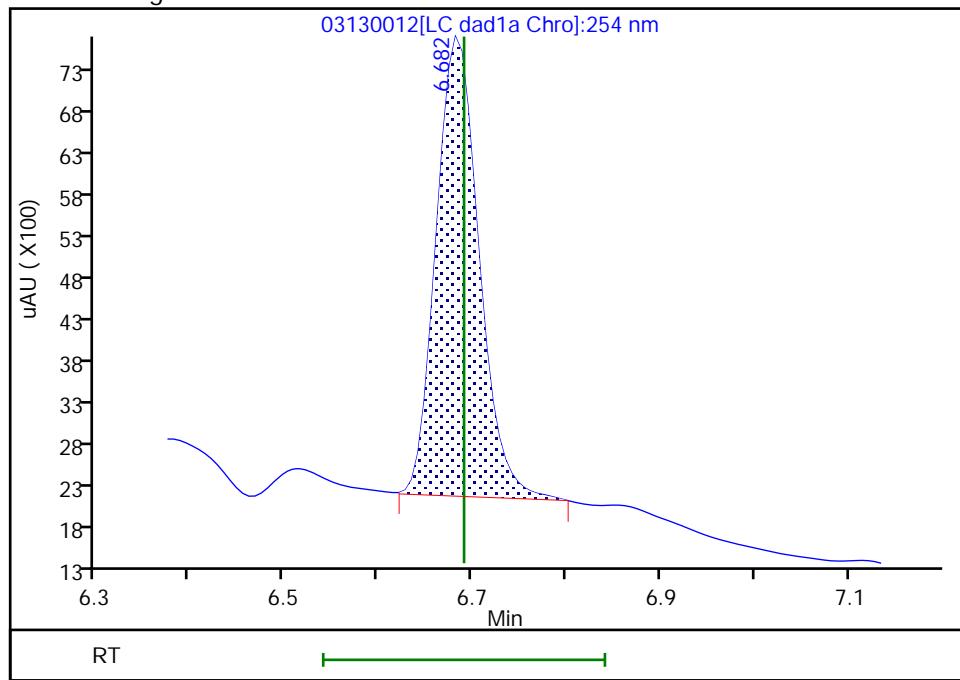
RT: 6.68
 Area: 29708
 Amount: 0.333133
 Amount Units: ug/mL

Processing Integration Results



RT: 6.68
 Area: 17250
 Amount: 0.193434
 Amount Units: ug/mL

Manual Integration Results



Reviewer: beckerc, 16-Mar-2020 10:50:48

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 280-488301/7-A
Matrix: Water Lab File ID: 03130016.D
Analysis Method: 8330A Date Collected: _____
Extraction Method: 3535 Date Extracted: 03/10/2020 19:07
Sample wt/vol: 500 (mL) Date Analyzed: 03/13/2020 19:09
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.: 488648 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
5755-27-1	MNX	2.18		2.0	0.40	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
528-29-0	1,2-Dinitrobenzene	96		83-119

Eurofins TestAmerica, Denver
Target Compound Quantitation Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\03130016.D
 Lims ID: LCSD 280-4883017-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 13-Mar-2020 19:09:54 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 280-488301/
 Misc. Info.: 280-0090034-016
 Operator ID: CB Instrument ID: CHHPLC_X3
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 16-Mar-2020 12:00:23 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: CTX0303

First Level Reviewer: beckerc Date: 16-Mar-2020 10:51:57

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	39269	0.2002	0.1805	M
5 DNX	1	6.920	6.914	0.006	29817	0.2002	0.1950	M
6 MNX	1	7.360	7.361	-0.001	34631	0.2334	0.2184	
\$ 9 1,2-Dinitrobenzene	1	8.727	8.718	0.009	28051	0.2000	0.1918	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 16-Mar-2020 12:00:34

Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Denver

Data File: \\chromna\\denver\\chromdata\\chhplc_x\\20200313-90034.b\\03130016.d

Injection Date: 13-Mar-2020 19:09:54

Instrument ID: CHHPLC_X3

Operator ID: CB

Lims ID: LCSD 280-488301/7-A

Worklist Smp#: 16

Client ID:

Injection Vol: 100.0 ul

Dil. Factor: 1.0000

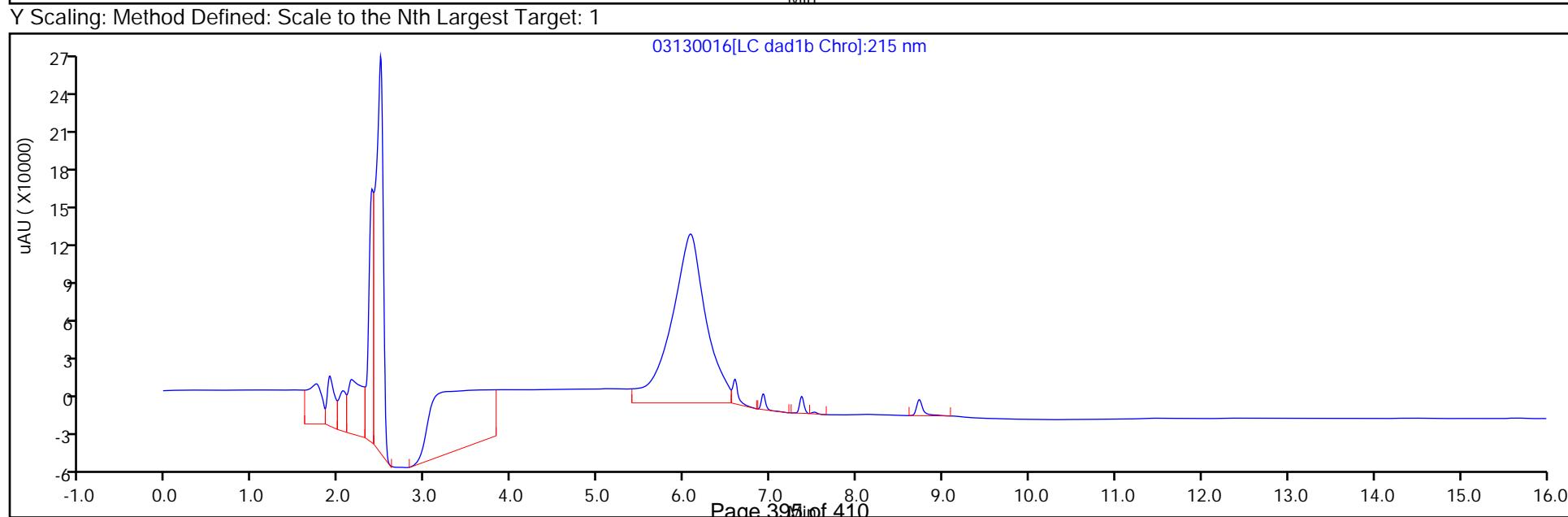
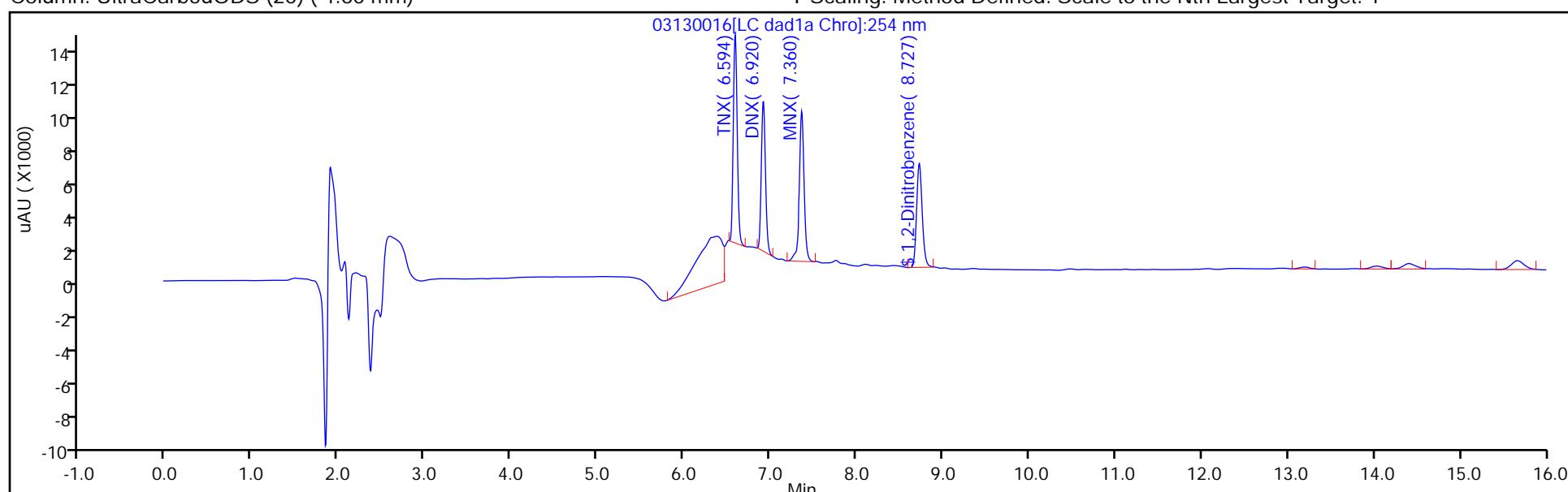
ALS Bottle#: 16

Method: 8330_X3

Limit Group: GCSV - 8330

Column: UltraCarb5uODS (20) (4.60 mm)

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



Eurofins TestAmerica, Denver
Recovery Report

Data File: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\03130016.D
 Lims ID: LCSD 280-4883017-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 13-Mar-2020 19:09:54 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 100.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 280-488301/
 Misc. Info.: 280-0090034-016
 Operator ID: CB Instrument ID: CHHPLC_X3
 Method: \\chromna\Denver\ChromData\CHHPLC_X\20200313-90034.b\8330_X3.m
 Limit Group: GCSV - 8330
 Last Update: 16-Mar-2020 12:00:23 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: CTX0303

First Level Reviewer: beckerc Date: 16-Mar-2020 10:51:57

Compound	Amount Added	Amount Recovered	% Rec.
\$ 9 1,2-Dinitrobenzene	0.2000	0.1918	95.92

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, DenverJob No.: 280-134369-1

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNAStart Date: 03/03/2020 18:01Analysis Batch Number: 487544End Date: 03/04/2020 03:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 280-487544/7		03/03/2020 18:01	1	03030007.D	Luna-phenylhex 4.6 (mm)
IC 280-487544/8		03/03/2020 18:36	1	03030008.D	Luna-phenylhex 4.6 (mm)
IC 280-487544/9		03/03/2020 19:11	1	03030009.D	Luna-phenylhex 4.6 (mm)
IC 280-487544/10		03/03/2020 19:46	1	03030010.D	Luna-phenylhex 4.6 (mm)
IC 280-487544/11		03/03/2020 20:21	1	03030011.D	Luna-phenylhex 4.6 (mm)
IC 280-487544/12		03/03/2020 20:56	1	03030012.D	Luna-phenylhex 4.6 (mm)
IC 280-487544/13		03/03/2020 21:31	1	03030013.D	Luna-phenylhex 4.6 (mm)
IC 280-487544/14		03/03/2020 22:06	1	03030014.D	Luna-phenylhex 4.6 (mm)
ICV 280-487544/15		03/03/2020 22:41	1	03030015.D	Luna-phenylhex 4.6 (mm)
IC 280-487544/16		03/03/2020 23:16	1	03030016.D	Luna-phenylhex 4.6 (mm)
IC 280-487544/17		03/03/2020 23:51	1	03030017.D	Luna-phenylhex 4.6 (mm)
IC 280-487544/18		03/04/2020 00:26	1	03030018.D	Luna-phenylhex 4.6 (mm)
IC 280-487544/19		03/04/2020 01:01	1	03030019.D	Luna-phenylhex 4.6 (mm)
IC 280-487544/20		03/04/2020 01:36	1	03030020.D	Luna-phenylhex 4.6 (mm)
IC 280-487544/21		03/04/2020 02:11	1	03030021.D	Luna-phenylhex 4.6 (mm)
IC 280-487544/22		03/04/2020 02:46	1	03030022.D	Luna-phenylhex 4.6 (mm)
IC 280-487544/23		03/04/2020 03:21	1	03030023.D	Luna-phenylhex 4.6 (mm)
ICV 280-487544/24		03/04/2020 03:55	1	03030024.D	Luna-phenylhex 4.6 (mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, DenverJob No.: 280-134369-1

SDG No.:

Instrument ID: CHHPLC_X3Start Date: 03/04/2020 14:07Analysis Batch Number: 487658End 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	03040007.D	UltraCarb5uODS 4.6 (mm)
IC 280-487658/8		03/04/2020 14:30	1	03040008.D	UltraCarb5uODS 4.6 (mm)
IC 280-487658/9		03/04/2020 14:53	1	03040009.D	UltraCarb5uODS 4.6 (mm)
IC 280-487658/10		03/04/2020 15:16	1	03040010.D	UltraCarb5uODS 4.6 (mm)
IC 280-487658/11		03/04/2020 15:39	1	03040011.D	UltraCarb5uODS 4.6 (mm)
IC 280-487658/12		03/04/2020 16:01	1	03040012.D	UltraCarb5uODS 4.6 (mm)
IC 280-487658/13		03/04/2020 16:24	1	03040013.D	UltraCarb5uODS 4.6 (mm)
IC 280-487658/14		03/04/2020 16:47	1	03040014.D	UltraCarb5uODS 4.6 (mm)
ICV 280-487658/15		03/04/2020 17:10	1	03040015.D	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)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver Job No.: 280-134369-1
SDG No.: _____

Instrument ID: CHHPLC_X3 Start Date: 03/13/2020 15:43
Analysis Batch Number: 488648 End Date: 03/14/2020 05:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-488648/7		03/13/2020 15:43	1	03130007.D	UltraCarb5uODS 4.6 (mm)
CCV 280-488648/8		03/13/2020 16:06	1		UltraCarb5uODS 4.6 (mm)
CCV 280-488648/9		03/13/2020 16:29	1	03130009.D	UltraCarb5uODS 4.6 (mm)
MB 280-488301/1-A		03/13/2020 16:52	1	03130010.D	UltraCarb5uODS 4.6 (mm)
LCS 280-488301/2-A		03/13/2020 17:15	1	03130011.D	UltraCarb5uODS 4.6 (mm)
LCSD 280-488301/3-A		03/13/2020 17:38	1	03130012.D	UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/13/2020 18:01	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/13/2020 18:24	1		UltraCarb5uODS 4.6 (mm)
LCS 280-488301/6-A		03/13/2020 18:46	1	03130015.D	UltraCarb5uODS 4.6 (mm)
LCSD 280-488301/7-A		03/13/2020 19:09	1	03130016.D	UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/13/2020 19:32	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/13/2020 19:55	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/13/2020 20:18	1		UltraCarb5uODS 4.6 (mm)
CCV 280-488648/20		03/13/2020 20:41	1	03130020.D	UltraCarb5uODS 4.6 (mm)
CCV 280-488648/21		03/13/2020 21:04	1		UltraCarb5uODS 4.6 (mm)
CCV 280-488648/22		03/13/2020 21:27	1	03130022.D	UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/13/2020 21:50	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/13/2020 22:13	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/13/2020 22:36	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/13/2020 22:59	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/13/2020 23:22	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/13/2020 23:45	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/14/2020 00:08	1		UltraCarb5uODS 4.6 (mm)
CCV 280-488648/30		03/14/2020 00:31	1		UltraCarb5uODS 4.6 (mm)
CCV 280-488648/31		03/14/2020 00:54	1		UltraCarb5uODS 4.6 (mm)
CCV 280-488648/32		03/14/2020 01:17	1		UltraCarb5uODS 4.6 (mm)
CCV 280-488648/43		03/14/2020 04:23	1		UltraCarb5uODS 4.6 (mm)
CCV 280-488648/44		03/14/2020 04:46	1		UltraCarb5uODS 4.6 (mm)
CCV 280-488648/45		03/14/2020 05:09	1		UltraCarb5uODS 4.6 (mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, DenverJob No.: 280-134369-1

SDG No.:

Instrument ID: CHHPLC_X3Start Date: 03/16/2020 12:31Analysis Batch Number: 488785End Date: 03/16/2020 22:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-488785/13		03/16/2020 12:31	1		UltraCarb5uODS 4.6 (mm)
CCV 280-488785/14		03/16/2020 12:53	1		UltraCarb5uODS 4.6 (mm)
CCV 280-488785/15		03/16/2020 13:16	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/16/2020 13:39	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/16/2020 14:02	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/16/2020 14:25	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/16/2020 14:48	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/16/2020 15:11	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/16/2020 15:34	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/16/2020 15:57	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/16/2020 16:20	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/16/2020 16:43	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/16/2020 17:06	1		UltraCarb5uODS 4.6 (mm)
CCV 280-488785/26		03/16/2020 17:29	1	03160026.D	UltraCarb5uODS 4.6 (mm)
CCV 280-488785/27		03/16/2020 17:52	1		UltraCarb5uODS 4.6 (mm)
CCV 280-488785/28		03/16/2020 18:15	1	03160028.D	UltraCarb5uODS 4.6 (mm)
280-134369-1		03/16/2020 18:38	1	03160029.D	UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/16/2020 19:01	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/16/2020 19:24	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/16/2020 19:47	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/16/2020 20:10	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/16/2020 20:32	1		UltraCarb5uODS 4.6 (mm)
ZZZZZ		03/16/2020 20:55	100		UltraCarb5uODS 4.6 (mm)
CCV 280-488785/36		03/16/2020 21:18	1	03160036.D	UltraCarb5uODS 4.6 (mm)
CCV 280-488785/37		03/16/2020 21:41	1		UltraCarb5uODS 4.6 (mm)
CCV 280-488785/38		03/16/2020 22:04	1	03160038.D	UltraCarb5uODS 4.6 (mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-134369-1

SDG No.:

Instrument ID: CHHPLC_G2_LUNA

Start Date: 03/16/2020 14:49

Analysis Batch Number: 488850

End Date: 03/17/2020 18:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-488850/7		03/16/2020 14:49	1		Luna-phenylhex 4.6 (mm)
CCV 280-488850/8		03/16/2020 15:24	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/16/2020 15:59	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/16/2020 16:34	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/16/2020 17:09	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/16/2020 17:44	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/16/2020 18:19	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/16/2020 18:54	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/16/2020 19:29	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/16/2020 20:04	10		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/16/2020 20:39	10		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/16/2020 21:14	10		Luna-phenylhex 4.6 (mm)
CCV 280-488850/19		03/16/2020 21:49	1		Luna-phenylhex 4.6 (mm)
CCV 280-488850/20		03/16/2020 22:24	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/16/2020 22:59	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/16/2020 23:34	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 00:09	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 00:44	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 01:19	1		Luna-phenylhex 4.6 (mm)
CCV 280-488850/26		03/17/2020 01:54	1		Luna-phenylhex 4.6 (mm)
CCV 280-488850/27		03/17/2020 02:29	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 03:04	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 03:39	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 04:14	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 04:49	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 05:24	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 05:59	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 06:34	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 07:09	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 07:44	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 08:19	1		Luna-phenylhex 4.6 (mm)
CCV 280-488850/38		03/17/2020 08:54	1	03160038.D	Luna-phenylhex 4.6 (mm)
CCV 280-488850/39		03/17/2020 09:29	1	03160039.D	Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 10:04	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 10:39	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 11:14	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 11:49	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 12:24	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 12:59	1		Luna-phenylhex 4.6 (mm)
280-134369-1		03/17/2020 13:34	1	03160046.D	Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 14:08	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 14:44	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 15:19	1		Luna-phenylhex 4.6 (mm)
CCV 280-488850/50		03/17/2020 15:54	1	03160050.D	Luna-phenylhex 4.6 (mm)
CCV 280-488850/51		03/17/2020 16:29	1	03160051.D	Luna-phenylhex 4.6 (mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, DenverJob No.: 280-134369-1

SDG No.: _____

Instrument ID: CHHPLC_G2_LUNAStart Date: 03/16/2020 14:49Analysis Batch Number: 488850End Date: 03/17/2020 18:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/17/2020 17:04	1		Luna-phenylhex 4.6 (mm)
ZZZZZ		03/17/2020 17:39	100		Luna-phenylhex 4.6 (mm)
CCV 280-488850/54		03/17/2020 18:14	1		Luna-phenylhex 4.6 (mm)
CCV 280-488850/55		03/17/2020 18:49	1		Luna-phenylhex 4.6 (mm)

HPLC/IC BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Denver

Job No.: 280-134369-1

SDG No.:

Batch Number: 488301

Batch Start Date: 03/10/20 19:07

Batch Analyst: Anders, Kayla S

Batch Method: 3535

Batch End Date: 03/10/20 22:24

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	8330 LCS 00095	8330 OP DMT 00006
MB 280-488301/1		3535, 8330A				500 mL	5 mL		
LCS 280-488301/2		3535, 8330A				500 mL	5 mL	0.1 mL	
LCSD 280-488301/3		3535, 8330A				500 mL	5 mL	0.1 mL	
LCS 280-488301/6		3535, 8330A				500 mL	5 mL		0.1 mL
LCSD 280-488301/7		3535, 8330A				500 mL	5 mL		0.1 mL
280-134369-A-1	WATERWC-Q2-MAR20	3535, 8330A	T	763.7 g	283.2 g	480.5 mL	5 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	8330 Surrogate 00110	AnalysisComment				
MB 280-488301/1		3535, 8330A		0.1 mL					
LCS 280-488301/2		3535, 8330A		0.1 mL					
LCSD 280-488301/3		3535, 8330A		0.1 mL					
LCS 280-488301/6		3535, 8330A		0.1 mL					
LCSD 280-488301/7		3535, 8330A		0.1 mL					
280-134369-A-1	WATERWC-Q2-MAR20	3535, 8330A	T	0.1 mL	filtered				

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.: 280-134369-1

SDG No.:

Batch Number: 488301

Batch Start Date: 03/10/20 19:07

Batch Analyst: Anders, Kayla S

Batch Method: 3535

Batch End Date: 03/10/20 22:24

Batch Notes	
Acid ID	CaCl2_Sol_00069
Acid Name	CaCl2
Balance ID	24350888
First End time	03/10/2020 21:41
Pipette/Syringe/Dispenser ID	Jiji, Soot
Rinse Solvent Lot	0.1%AAinACN_00133
Rinse Solvent Name	0.1%AAinACN
Solvent Lot #	ACN_00043
Solvent Name	Acetonitrile
SPE Cartridge Lot ID	005039204A
SPE Cartridge Type	Porapak RDX
Analyst ID - Spike Analyst	KA
Analyst ID - Spike Witness Analyst	Reviewer:MA
First Start time	03/10/2020 19:25

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

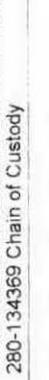
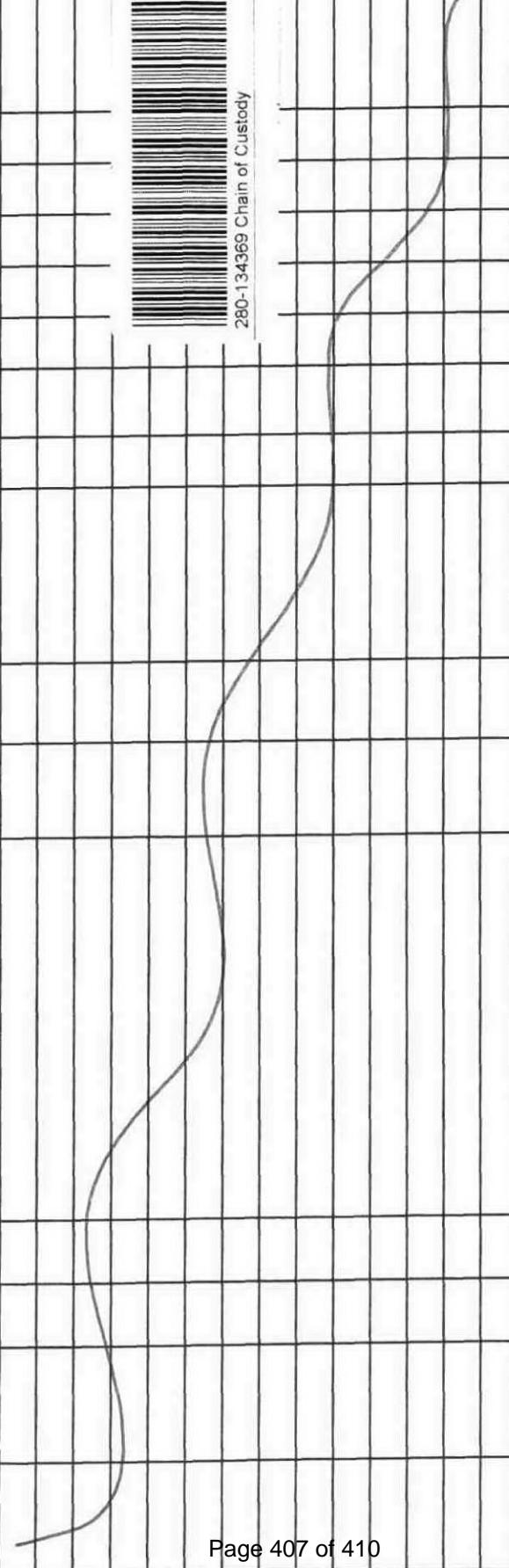
CHAIN OF CUSTODY RECORD

AECOM
12120 Shannock Plaza Suite 300, Omaha, NE 68154 (402) 334-8181 Fax (402) 334-1984

Page 406 of 410

-6.3 Te# 9+e.4 Transfer R/P 3/6/28 White cop

CHAIN OF CUSTODY RECORD

Project Name: CHAAP	AECOM Project Number: 60565355	Analytical Parameters			Bill to: Brice Engineering
Project Location: Grand Island, Nebraska	AECOM Project Manager: Dean Converse				Remarks standard TAT
Sampler(s): <i>RH RE</i>					
Sample	Type	Sample Identification	Matrix	Containers	
Date	Time	Comp Grab	No.	Type	
<i>35-20 1200</i>	<i>X</i>	<i>water/wc - Q2 - Mar 20</i>	<i>HQ</i>	<i>2 A</i>	<i>6°C</i>
 SO ₂ (9056A), Alkalinity (2320B) NO _x , NO ₃ (353.2) TKN (351.2), NH ₃ (350.1). Explosives+MNX (8330A) Sulfide (9034) DOC (9060A)* Methane (RSK 175)					
 280-134369 Chain of Custody					
					
Signatures	Date	Time	Shipping Details		Special Instructions
Relinquished by: <i>B. Hall</i>	<i>3-5-20</i>	<i>1700</i>	Method of Shipment:	Federal Express	*Filter groundwater sample before analyzing for DOC
Received by: <i>Reed PA</i>	<i>3/6/20</i>	<i>1115</i>	Airbill Number:	<i>7779 4146 7668</i>	(A) (2) 500mL Ambers (Explosives) (B) (1) 500mL HDPE w/ H ₂ SO 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: <i></i>			Lab Address:	TestAmerica Lab, Inc. Attn: Patrick McEntee 4955 Yarrow St. Arvada, CO 80002 (303) 736-0107	
Received for Laboratory by: <i></i>				TAL/Brice Project #: 28017805	

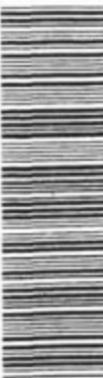
Project Name

CHAAP

Project Location:

Grand Island, Nebraska

Sampler(s):



280-134369 Waybill

Label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.
 Print button on this page to print your label to your laser or inkjet printer.
 Using this label:
 Use only the printed label for shipping. Using a photocopy of this label for shipping purposes is fraudulant and could result in
 billing charges along with the cancellation of your FedEx account number.
 A system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not
 declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx
 service for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation,
 costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the
 declared value. Recovery cannot exceed actual documented loss. Maximum for terms of extraordinary value is \$1,000, e.g., jewelry,
 furs, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current
 Service Guide.

ORIGIN ID OMAA RYAN HEROLD URS	SHIP DATE: 05MAR20 ACTWTG: 60.00 LB CAD: 2127823INNET4220
OMAHA, NE 68154 UNITED STATES US	BILL RECIPIENT

TO SAMPLE CUSTODIAN
TA-DENVER
4955 YARROW STREET

6EB04E0E0F4A

ARVADA CO 80002

(303) 736-0100
AV
FO

REF# FJUJEUC COST_TYPE:00000

DEPT

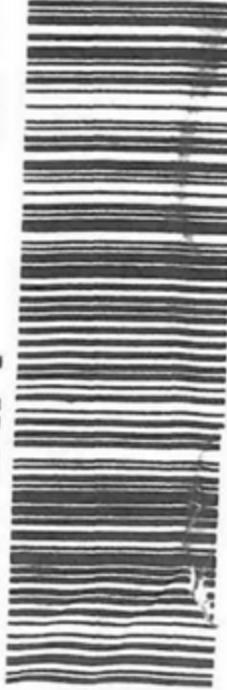


FRI - 06 MAR 10:30A
PRIORITY OVERNIGHT

TRK# 0201
7779 4146 7668

XH WHHA
CO-US DEN

80002
CO-US DEN



Login Sample Receipt Checklist

Client: Brice Environmental Services, Corp

Job Number: 280-134369-1

Login Number: 134369

List Source: Eurofins TestAmerica, Denver

List Number: 1

Creator: Pottruff, Reed W

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	