

September 12, 2023
File No. 25211374.54

Ms. Namgyal C. Ponsar
Bongrum LLC
1006 N. Fairbrook Drive
Waunakee, WI 53597

Subject: 1111 & 1113 North Sherman Avenue, Madison, Wisconsin
Results of Vapor Sampling – July 2023

Dear Ms. Ponsar:

SCS Engineers (SCS), on behalf of the Northgate Partnership, is providing the results of sub-slab vapor sampling conducted at your property at 1111 & 1113 North Sherman Avenue.

On July 25, 2023, SCS collected one sub-slab vapor sample at 1111 N. Sherman Avenue (The Cash Store) and two sub-slab vapor samples at 1113 N. Sherman Avenue (formerly The Tobacco Outlet, and currently unoccupied). The samples were collected consistent with Wisconsin Department of Natural Resources (WDNR) RR-800 vapor sampling guidance and were submitted to Eurofins Chicago, University Park, Illinois, for analysis of chlorinated volatile organic compounds via method TO-15. The laboratory report is attached.

None of the detected concentrations exceed the WDNR's small commercial sub-slab vapor risk screening levels. Based on these findings there does not appear to be a vapor intrusion risk for 1111 & 1113 N. Sherman Avenue.

Please contact Betty at 608.212.6664 or bsocha@scsengineers.com or Robert at 608.212.3995 or rlangdon@scsengineers.com if you have any questions.

You may also contact the WDNR project manager Cindy Koepke. Her phone number is 608.219.2181. Her email address is cynthia.koepke@wisconsin.gov.

Sincerely,



Betty J. Socha, PhD, PG
Senior Project Manager
SCS Engineers



Robert Langdon
Senior Project Manager
SCS Engineers

BJS/AJR/REL

Encl. Eurofins Analytical Report



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ANALYTICAL REPORT

PREPARED FOR

Attn: Dr. Betty Socha
SCS Engineers
2830 Dairy Dr
Madison, Wisconsin 53718

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JOB DESCRIPTION

Northgate - 2023 Scope - 25211374.54 T2

JOB NUMBER

500-237402-1

Eurofins Chicago

Job Notes

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Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

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

Authorization



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Case Narrative

Client: SCS Engineers
Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

Job ID: 500-237402-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-237402-1

Comments

No additional comments.

Receipt

The samples were received on 7/31/2023 2:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

Air - GC/MS VOA

Method TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by Eurofins TestAmerica Knoxville.

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



Detection Summary

Client: SCS Engineers
Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

Client Sample ID: 1113 SOUTH

Lab Sample ID: 500-237402-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	42	E	0.20	0.029	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.13	J B	0.20	0.033	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene - DL	47		0.40	0.058	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	290	E	1.4	0.20	ug/m3	1		TO-15	Total/NA
Trichloroethene	0.71	J B	1.1	0.18	ug/m3	1		TO-15	Total/NA
Tetrachloroethene - DL	320		2.7	0.39	ug/m3	1		TO-15	Total/NA

Client Sample ID: 1113 NORTH

Lab Sample ID: 500-237402-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.098	J B	0.20	0.025	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	7.2		0.20	0.029	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.40	B	0.20	0.033	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.39	J B	0.79	0.099	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	49		1.4	0.20	ug/m3	1		TO-15	Total/NA
Trichloroethene	2.1	B	1.1	0.18	ug/m3	1		TO-15	Total/NA

Client Sample ID: 1111 EAST

Lab Sample ID: 500-237402-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	210		4.0	0.58	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1400		27	3.9	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: SCS Engineers
Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	EET KNX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

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Sample Summary

Client: SCS Engineers
Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-237402-1	1113 SOUTH	Air	07/25/23 11:46	07/31/23 14:00	Air Canister (6-Liter) #09917
500-237402-2	1113 NORTH	Air	07/25/23 12:35	07/31/23 14:00	Air Canister (6-Liter) #34000201
500-237402-3	1111 EAST	Air	07/25/23 13:23	07/31/23 14:00	Air Canister (6-Liter) #34002041

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Client Sample Results

Client: SCS Engineers
 Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

Client Sample ID: 1113 SOUTH

Lab Sample ID: 500-237402-1

Date Collected: 07/25/23 11:46

Matrix: Air

Date Received: 07/31/23 14:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.025		0.20	0.025	ppb v/v			08/01/23 19:02	1
Tetrachloroethene	42	E	0.20	0.029	ppb v/v			08/01/23 19:02	1
trans-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/01/23 19:02	1
Trichloroethene	0.13	J B	0.20	0.033	ppb v/v			08/01/23 19:02	1
Vinyl chloride	<0.065		0.40	0.065	ppb v/v			08/01/23 19:02	1

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.099		0.79	0.099	ug/m3			08/01/23 19:02	1
Tetrachloroethene	290	E	1.4	0.20	ug/m3			08/01/23 19:02	1
trans-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/01/23 19:02	1
Trichloroethene	0.71	J B	1.1	0.18	ug/m3			08/01/23 19:02	1
Vinyl chloride	<0.17		1.0	0.17	ug/m3			08/01/23 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		60 - 140		08/01/23 19:02	1

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	47		0.40	0.058	ppb v/v			08/02/23 15:54	1
Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	320		2.7	0.39	ug/m3			08/02/23 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		60 - 140		08/02/23 15:54	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

Client Sample ID: 1113 NORTH

Lab Sample ID: 500-237402-2

Date Collected: 07/25/23 12:35

Matrix: Air

Date Received: 07/31/23 14:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.098	J B	0.20	0.025	ppb v/v			08/01/23 19:57	1
Tetrachloroethene	7.2		0.20	0.029	ppb v/v			08/01/23 19:57	1
trans-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/01/23 19:57	1
Trichloroethene	0.40	B	0.20	0.033	ppb v/v			08/01/23 19:57	1
Vinyl chloride	<0.065		0.40	0.065	ppb v/v			08/01/23 19:57	1

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.39	J B	0.79	0.099	ug/m3			08/01/23 19:57	1
Tetrachloroethene	49		1.4	0.20	ug/m3			08/01/23 19:57	1
trans-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/01/23 19:57	1
Trichloroethene	2.1	B	1.1	0.18	ug/m3			08/01/23 19:57	1
Vinyl chloride	<0.17		1.0	0.17	ug/m3			08/01/23 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		60 - 140		08/01/23 19:57	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

Client Sample ID: 1111 EAST

Lab Sample ID: 500-237402-3

Date Collected: 07/25/23 13:23

Matrix: Air

Date Received: 07/31/23 14:00

Sample Container: Summa Canister 6L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.50		4.0	0.50	ppb v/v			08/01/23 20:48	1
Tetrachloroethene	210		4.0	0.58	ppb v/v			08/01/23 20:48	1
trans-1,2-Dichloroethene	<0.66		4.0	0.66	ppb v/v			08/01/23 20:48	1
Trichloroethene	<0.66		4.0	0.66	ppb v/v			08/01/23 20:48	1
Vinyl chloride	<1.3		8.0	1.3	ppb v/v			08/01/23 20:48	1

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<2.0		16	2.0	ug/m3			08/01/23 20:48	1
Tetrachloroethene	1400		27	3.9	ug/m3			08/01/23 20:48	1
trans-1,2-Dichloroethene	<2.6		16	2.6	ug/m3			08/01/23 20:48	1
Trichloroethene	<3.5		21	3.5	ug/m3			08/01/23 20:48	1
Vinyl chloride	<3.3		20	3.3	ug/m3			08/01/23 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		60 - 140		08/01/23 20:48	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

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

QC Association Summary

Client: SCS Engineers
Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

Air - GC/MS VOA

Analysis Batch: 75913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237402-1	1113 SOUTH	Total/NA	Air	TO-15	
500-237402-2	1113 NORTH	Total/NA	Air	TO-15	
500-237402-3	1111 EAST	Total/NA	Air	TO-15	
MB 140-75913/7	Method Blank	Total/NA	Air	TO-15	
LCS 140-75913/1002	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 75921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237402-1 - DL	1113 SOUTH	Total/NA	Air	TO-15	
MB 140-75921/5	Method Blank	Total/NA	Air	TO-15	
LCS 140-75921/1002	Lab Control Sample	Total/NA	Air	TO-15	

Surrogate Summary

Client: SCS Engineers
Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (60-140)
500-237402-1	1113 SOUTH	96
500-237402-1 - DL	1113 SOUTH	102
500-237402-2	1113 NORTH	99
500-237402-3	1111 EAST	93
LCS 140-75913/1002	Lab Control Sample	99
LCS 140-75921/1002	Lab Control Sample	106
MB 140-75913/7	Method Blank	89
MB 140-75921/5	Method Blank	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: SCS Engineers
 Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 140-75913/7
Matrix: Air
Analysis Batch: 75913

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

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
cis-1,2-Dichloroethene	0.0272	J	0.20	0.025	ppb v/v			08/01/23 11:31	1
Tetrachloroethene	<0.029		0.20	0.029	ppb v/v			08/01/23 11:31	1
trans-1,2-Dichloroethene	<0.033		0.20	0.033	ppb v/v			08/01/23 11:31	1
Trichloroethene	0.0884	J	0.20	0.033	ppb v/v			08/01/23 11:31	1
Vinyl chloride	<0.065		0.40	0.065	ppb v/v			08/01/23 11:31	1

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
cis-1,2-Dichloroethene	0.108	J	0.79	0.099	ug/m3			08/01/23 11:31	1
Tetrachloroethene	<0.20		1.4	0.20	ug/m3			08/01/23 11:31	1
trans-1,2-Dichloroethene	<0.13		0.79	0.13	ug/m3			08/01/23 11:31	1
Trichloroethene	0.475	J	1.1	0.18	ug/m3			08/01/23 11:31	1
Vinyl chloride	<0.17		1.0	0.17	ug/m3			08/01/23 11:31	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	89		60 - 140		08/01/23 11:31	1

Lab Sample ID: LCS 140-75913/1002
Matrix: Air
Analysis Batch: 75913

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
cis-1,2-Dichloroethene	2.00	1.99		ppb v/v		99	70 - 130
Tetrachloroethene	2.00	1.78		ppb v/v		89	70 - 130
trans-1,2-Dichloroethene	2.00	2.04		ppb v/v		102	70 - 130
Trichloroethene	2.00	1.80		ppb v/v		90	70 - 130
Vinyl chloride	2.00	2.06		ppb v/v		103	70 - 130

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
cis-1,2-Dichloroethene	7.9	7.89		ug/m3		99	70 - 130
Tetrachloroethene	14	12.1		ug/m3		89	70 - 130
trans-1,2-Dichloroethene	7.9	8.08		ug/m3		102	70 - 130
Trichloroethene	11	9.69		ug/m3		90	70 - 130
Vinyl chloride	5.1	5.27		ug/m3		103	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		60 - 140

Lab Sample ID: MB 140-75921/5
Matrix: Air
Analysis Batch: 75921

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

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Tetrachloroethene	<0.029		0.20	0.029	ppb v/v			08/02/23 09:40	1

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Tetrachloroethene	<0.20		1.4	0.20	ug/m3			08/02/23 09:40	1

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QC Sample Results

Client: SCS Engineers
 Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 140-75921/5
Matrix: Air
Analysis Batch: 75921

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB</i> <i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	94		60 - 140		08/02/23 09:40	1

Lab Sample ID: LCS 140-75921/1002
Matrix: Air
Analysis Batch: 75921

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

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
Tetrachloroethene	2.00	1.97		ppb v/v		99	70 - 130
<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
Tetrachloroethene	14	13.4		ug/m3		99	70 - 130

<i>Surrogate</i>	<i>%Recovery</i>	<i>LCS LCS</i> <i>Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene (Surr)	106		60 - 140

Lab Chronicle

Client: SCS Engineers
Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

Client Sample ID: 1113 SOUTH

Lab Sample ID: 500-237402-1

Date Collected: 07/25/23 11:46

Matrix: Air

Date Received: 07/31/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15	DL	1	75921	S1K	EET KNX	08/02/23 15:54
Total/NA	Analysis	TO-15		1	75913	S1K	EET KNX	08/01/23 19:02

Client Sample ID: 1113 NORTH

Lab Sample ID: 500-237402-2

Date Collected: 07/25/23 12:35

Matrix: Air

Date Received: 07/31/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	75913	S1K	EET KNX	08/01/23 19:57

Client Sample ID: 1111 EAST

Lab Sample ID: 500-237402-3

Date Collected: 07/25/23 13:23

Matrix: Air

Date Received: 07/31/23 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		1	75913	S1K	EET KNX	08/01/23 20:48

Laboratory References:

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Northgate - 2023 Scope - 25211374.54 T2

Job ID: 500-237402-1

Laboratory: Eurofins Knoxville

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998044300	08-31-23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Log In Number:

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	/				
2. Were ambient air containers received intact?	/			<input type="checkbox"/> Containers, Broken	
3. The coolers/containers custody seal if present, is it intact?	/			<input checked="" type="checkbox"/> Checked in lab <input type="checkbox"/> Yes <input type="checkbox"/> NA	
4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID: _____ Correction factor: _____	/			<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	
5. Were all of the sample containers received intact?	/			<input type="checkbox"/> Containers, Broken	
6. Were samples received in appropriate containers?	/			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	/			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	/			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	/			<input type="checkbox"/> COC; No Date/Time; Client Contacted	
10. Was the sampler identified on the COC?	/			<input type="checkbox"/> Sampler Not Listed on COC	
11. Is the client and project name/# identified?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	/			<input type="checkbox"/> COC No tests on COC	
13. Is the matrix of the samples noted?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	/			<input type="checkbox"/> COC Incorrect/Incomplete	
15. Were samples received within holding time?	/			<input type="checkbox"/> Holding Time - Receipt	
16. Were samples received with correct chemical preservative (excluding Encore)?	/			<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	
17. Were VOA samples received without headspace?	/			<input type="checkbox"/> Headspace (VOA only) <input type="checkbox"/> Residual Chlorine	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____	/				
19. For 1613B water samples is pH<9?	/			<input type="checkbox"/> If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?	/			<input type="checkbox"/> Project missing info	
Project #: <u>50006561</u> PM Instructions: _____					
Sample Receiving Associate: <u>[Signature]</u> Date: <u>7-31-23</u>					



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-32420-1
 SDG No.: _____
 Client Sample ID: 11191 Lab Sample ID: 140-32420-1
 Matrix: Air Lab File ID: GG03L32420.D
 Analysis Method: TO 15 LL Date Collected: 06/30/2023 08:10
 Sample wt/vol: 500 (mL) Date Analyzed: 07/03/2023 15:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 Purge Volume: _____ Heated Purge: (Y/N) _____ pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 74906 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.040	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
96-12-8	1,2-Dibromo-3-Chloropropane	ND		0.16	
106-93-4	1,2-Dibromoethane	ND		0.080	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
108-67-8	1,3,5-Trimethylbenzene	ND		0.16	
106-99-0	1,3-Butadiene	ND		0.16	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
90-12-0	1-Methylnaphthalene	ND		1.0	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-93-3	2-Butanone	ND		0.32	
95-49-8	2-Chlorotoluene	ND		0.16	
591-78-6	2-Hexanone	ND		0.20	
78-78-4	2-Methylbutane	ND		0.20	
91-57-6	2-Methylnaphthalene	ND		1.0	
107-83-5	2-Methylpentane	ND		0.080	
107-05-1	3-Chloroprene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-32420-1
 SDG No.: _____
 Client Sample ID: 11191 Lab Sample ID: 140-32420-1
 Matrix: Air Lab File ID: GG03L32420.D
 Analysis Method: TO 15 LL Date Collected: 06/30/2023 08:10
 Sample wt/vol: 500 (mL) Date Analyzed: 07/03/2023 15:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 Purge Volume: _____ Heated Purge: (Y/N) _____ pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 74906 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
622-96-8	4-Ethyltoluene	ND		0.16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20
67-64-1	Acetone	ND		2.0
75-05-8	Acetonitrile	ND		0.40
107-02-8	Acrolein	ND		0.40
107-13-1	Acrylonitrile	ND		0.80
98-83-9	Alpha Methyl Styrene	ND		0.16
71-43-2	Benzene	ND		0.080
100-44-7	Benzyl chloride	ND		0.16
75-27-4	Bromodichloromethane	ND		0.080
75-25-2	Bromoform	ND		0.080
74-83-9	Bromomethane	ND		0.080
106-97-8	Butane	ND		0.16
75-15-0	Carbon disulfide	ND		0.20
56-23-5	Carbon tetrachloride	ND		0.032
108-90-7	Chlorobenzene	ND		0.080
75-45-6	Chlorodifluoromethane	ND		0.080
75-00-3	Chloroethane	ND		0.080
67-66-3	Chloroform	ND		0.080
74-87-3	Chloromethane	ND		0.20
156-59-2	cis-1,2-Dichloroethene	ND		0.040
10061-01-5	cis-1,3-Dichloropropene	ND		0.080
98-82-8	Cumene	ND		0.16
110-82-7	Cyclohexane	ND		0.20
124-48-1	Dibromochloromethane	ND		0.080
74-95-3	Dibromomethane	ND		0.16
75-71-8	Dichlorodifluoromethane	ND		0.080
64-17-5	Ethanol	ND		2.0
141-78-6	Ethyl acetate	ND		0.80
60-29-7	Ethyl ether	ND		0.80
100-41-4	Ethylbenzene	ND		0.080
87-68-3	Hexachlorobutadiene	ND		0.080
110-54-3	Hexane	ND		0.20
496-11-7	Indane	ND		0.080

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-32420-1
 SDG No.: _____
 Client Sample ID: 11191 Lab Sample ID: 140-32420-1
 Matrix: Air Lab File ID: GG03L32420.D
 Analysis Method: TO 15 LL Date Collected: 06/30/2023 08:10
 Sample wt/vol: 500 (mL) Date Analyzed: 07/03/2023 15:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 Purge Volume: _____ Heated Purge: (Y/N) _____ pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 74906 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
95-13-6	Indene	ND		0.16
67-63-0	Isopropyl alcohol	ND		0.80
80-62-6	Methyl methacrylate	ND		0.20
1634-04-4	Methyl tert-butyl ether	ND		0.16
108-87-2	Methylcyclohexane	ND		0.080
75-09-2	Methylene Chloride	ND		0.40
179601-23-1	m-Xylene & p-Xylene	ND		0.080
91-20-3	Naphthalene	ND		0.20
104-51-8	n-Butylbenzene	ND		0.16
124-18-5	n-Decane	ND		0.40
112-40-3	n-Dodecane	ND		0.40
142-82-5	n-Heptane	ND		0.20
111-84-2	n-Nonane	ND		0.20
111-65-9	n-Octane	ND		0.16
103-65-1	N-Propylbenzene	ND		0.16
95-47-6	o-Xylene	ND		0.080
99-87-6	p-Cymene	ND		0.080
109-66-0	Pentane	ND		0.40
115-07-1	Propene	ND		1.0
135-98-8	sec-Butylbenzene	ND		0.16
100-42-5	Styrene	ND		0.080
75-65-0	tert-Butanol	ND		0.32
98-06-6	tert-Butylbenzene	ND		0.20
127-18-4	Tetrachloroethene	ND		0.040
109-99-9	Tetrahydrofuran	ND		0.40
110-02-1	Thiophene	ND		0.080
108-88-3	Toluene	ND		0.12
156-60-5	trans-1,2-Dichloroethene	ND		0.080
10061-02-6	trans-1,3-Dichloropropene	ND		0.080
79-01-6	Trichloroethene	ND		0.036
75-69-4	Trichlorofluoromethane	ND		0.080
1120-21-4	Undecane	ND		0.40
108-05-4	Vinyl acetate	ND		0.40
593-60-2	Vinyl bromide	ND		0.080

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-32420-1
 SDG No.: _____
 Client Sample ID: 11191 Lab Sample ID: 140-32420-1
 Matrix: Air Lab File ID: GG03L32420.D
 Analysis Method: TO 15 LL Date Collected: 06/30/2023 08:10
 Sample wt/vol: 500 (mL) Date Analyzed: 07/03/2023 15:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 Purge Volume: _____ Heated Purge: (Y/N) _____ pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 74906 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-01-4	Vinyl chloride	ND		0.040	



FORM I
 AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET
 TARGETED TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins Knoxville Job No.: 140-32420-1
 SDG No.: _____
 Client Sample ID: 11191 Lab Sample ID: 140-32420-1
 Matrix: Air Lab File ID: GG03L32420.D
 Analysis Method: TO 15 LL Date Collected: 06/30/2023 08:10
 Sample wt/vol: 500 (mL) Date Analyzed: 07/03/2023 15:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 Purge Volume: _____ Heated Purge: (Y/N) _____ pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 74906 Units: ppb v/v

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
488-23-3	1,2,3,4-Tetramethylbenzene TIC		ND		
527-53-7	1,2,3,5-Tetramethylbenzene TIC		ND		
934-80-5	1,2-Dimethyl-4-Ethylbenzene TIC		ND		
872-55-9	2-Ethylthiophene TIC		ND		
554-14-3	2-Methylthiophene TIC		ND		
616-44-4	3-Methylthiophene TIC		ND		
95-15-8	Benzo(b)thiophene TIC		ND		

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\MG\20230629-28655.b\GG03L32420.D
 Lims ID: 140-32420-A-1
 Client ID: 11191
 Sample Type: Client
 Inject. Date: 03-Jul-2023 15:49:30 ALS Bottle#: 1 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 140-0028655-004
 Misc. Info.: 11191
 Operator ID: Instrument ID: MG
 Method: \\chromfs\Knoxville\ChromData\MG\20230629-28655.b\MG_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 04-Jul-2023 13:02:32 Calib Date: 06-Jun-2023 01:39:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\MG\20230605-28306.b\GF05IC07.D
 Column 1 : RTX-5 (0.32 mm) Det: MS SCAN
 Process Host: CTX1642

First Level Reviewer: khachitpongpanits

Date: 04-Jul-2023 13:02:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	9.354	9.354	0.000	72	175672	3.76	
* 2 1,4-Difluorobenzene	114	11.533	11.533	0.000	94	959834	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.219	16.219	0.000	87	787664	3.92	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.858	17.885	-0.027	91	616381	3.55	
23 Acetone	58	5.671	5.660	0.011	99	25245	0.9471	
31 Methylene Chloride	84	6.674	6.674	0.000	84	13272	0.2163	
39 2-Butanone (MEK)	72	8.556	8.540	0.016	93	2498	0.0888	
51 n-Butanol	31	10.929	10.907	0.022	84	1835	0.2173	
61 1,4-Dioxane	88	12.471	12.460	0.011	89	3623	0.1574	
115 2-Methylnaphthalene	142	22.420	22.415	0.005	91	466	0.0103	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

40MXISSUR_00003

Amount Added: 40.00

Units: mL

Run Reagent

Euofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\MG\20230629-28655.b\GG03L32420.D

Injection Date: 03-Jul-2023 15:49:30

Instrument ID: MG

Operator ID:

Lims ID: 140-32420-A-1

Lab Sample ID: 140-32420-1

Worklist Smp#: 4

Client ID: 11191

Purge Vol: 500.000 mL

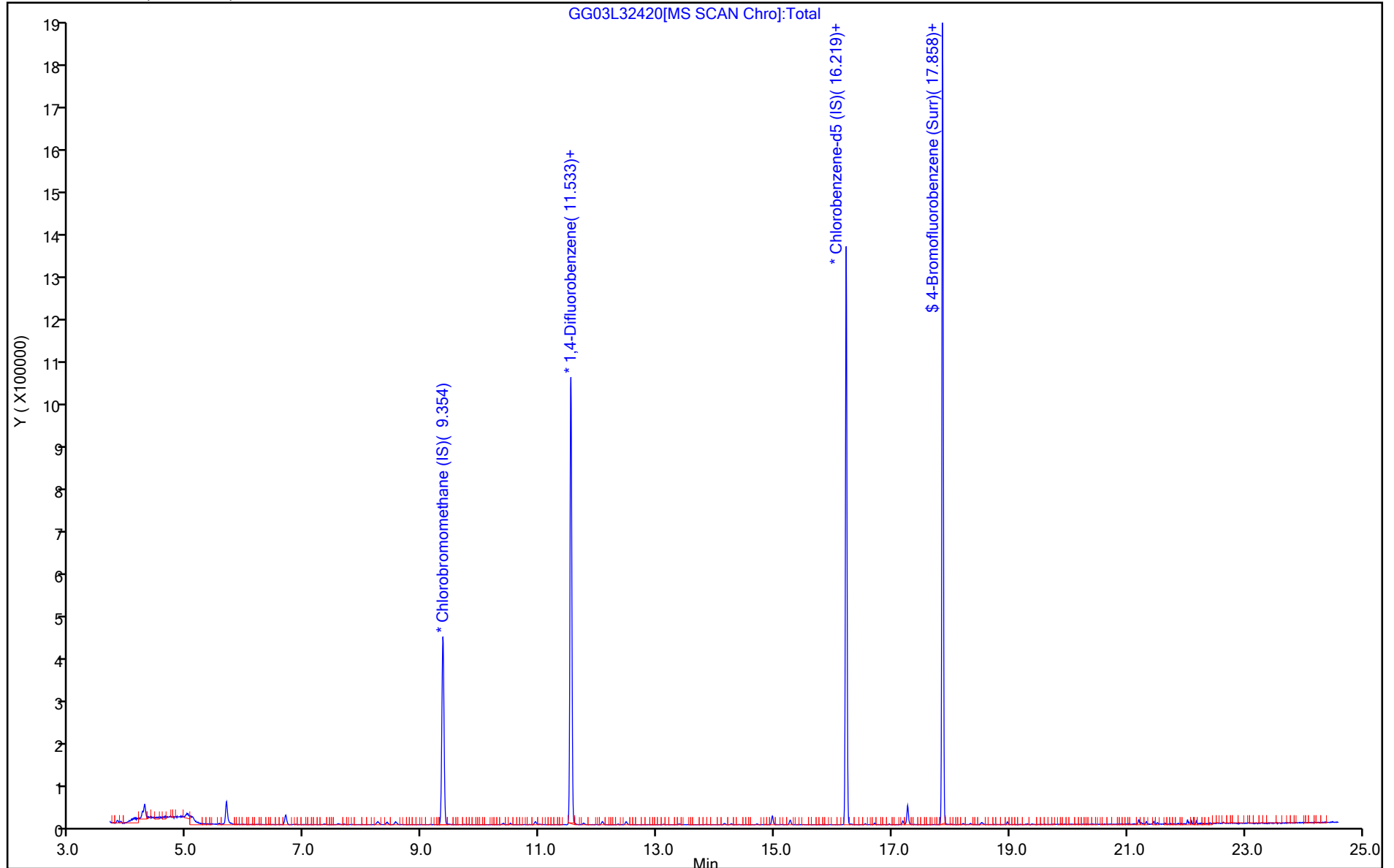
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: MG_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

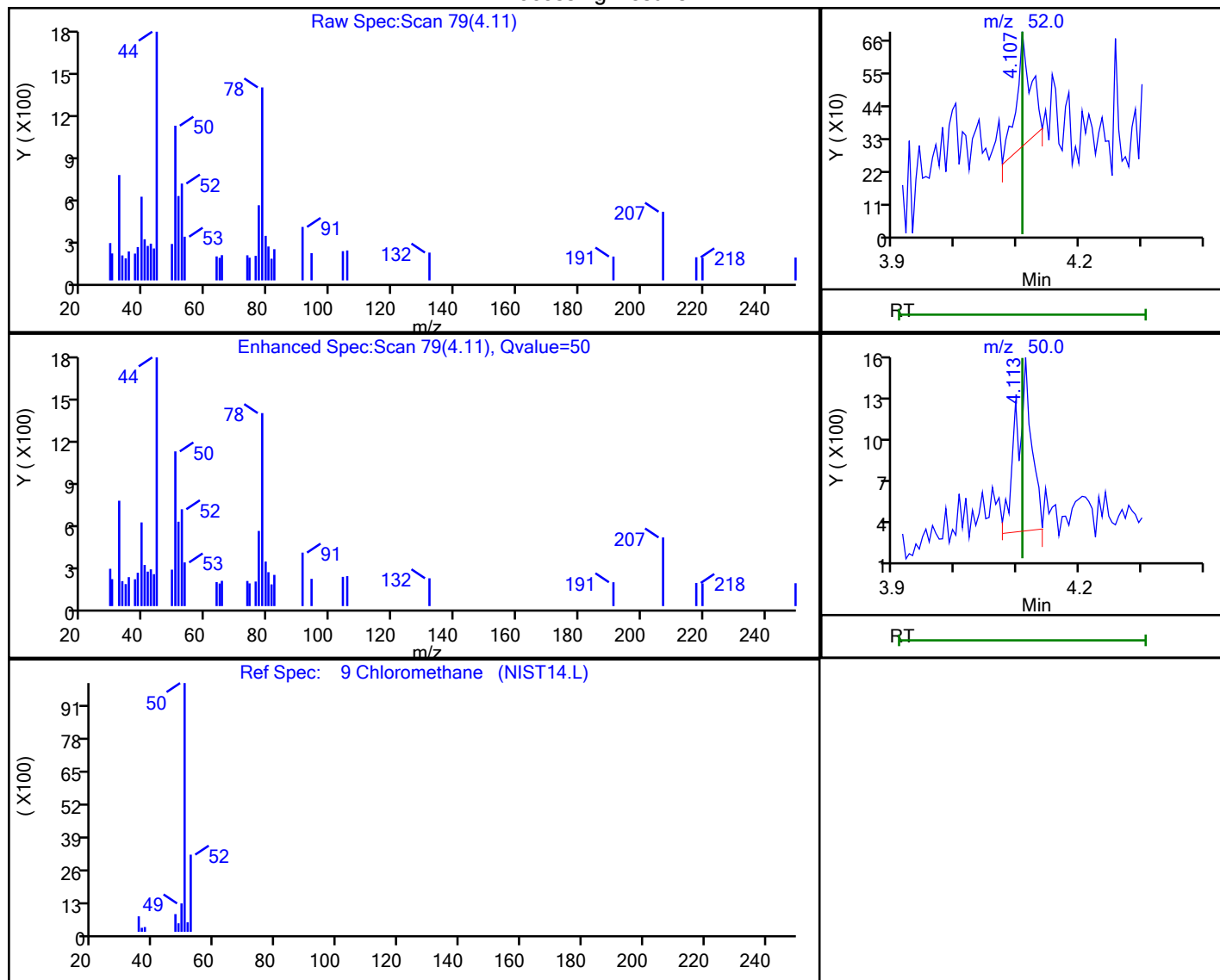


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\MG\20230629-28655.b\GG03L32420.D
 Injection Date: 03-Jul-2023 15:49:30 Instrument ID: MG
 Lims ID: 140-32420-A-1 Lab Sample ID: 140-32420-1
 Client ID: 11191
 Operator ID: ALS Bottle#: 1 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Method: MG_TO15 Limit Group: MSA TO14A_15 Routine ICAL
 Column: RTX-5 (0.32 mm) Detector: MS SCAN

9 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
4.11	52.00	619	0.075916
4.11	50.00	2095	

Reviewer: khachitponpanits, 04-Jul-2023 13:01:54 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\MG\20230629-28655.b\GG03L32420.D
Injection Date: 03-Jul-2023 15:49:30 Instrument ID: MG
Lims ID: 140-32420-A-1 Lab Sample ID: 140-32420-1
Client ID: 11191
Operator ID: ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 500.000 mL Dil. Factor: 1.0000
Method: MG_TO15 Limit Group: MSA TO14A_15 Routine ICAL
Column: RTX-5 (0.32 mm) Detector MS SCAN

80 n-Nonane, CAS: 111-84-2

Processing Results

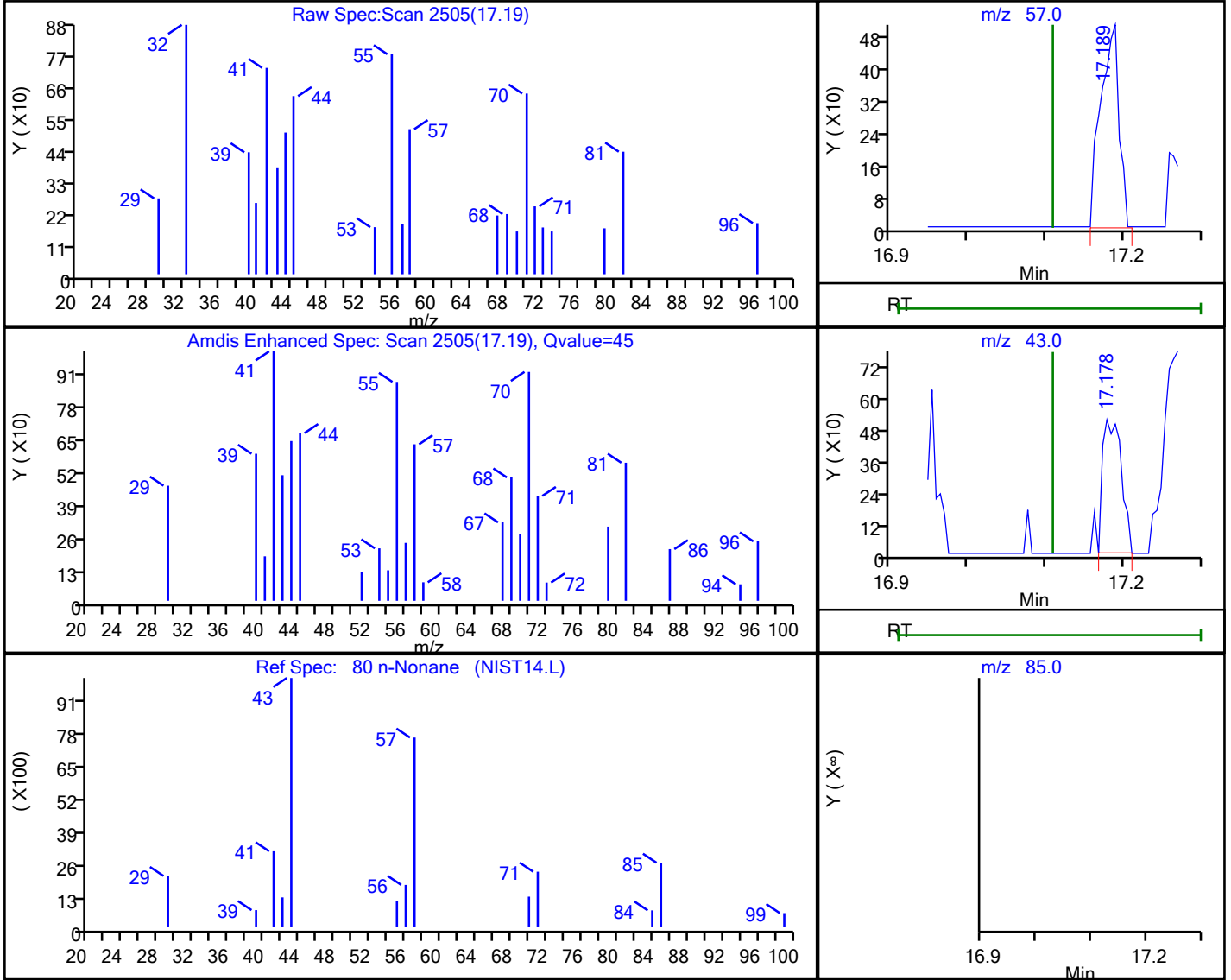


Table with 4 columns: RT, Mass, Response, Amount. Rows show data for RT 17.19, 17.18, and 17.11.

Reviewer: khachitpongpanits, 04-Jul-2023 13:02:25 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

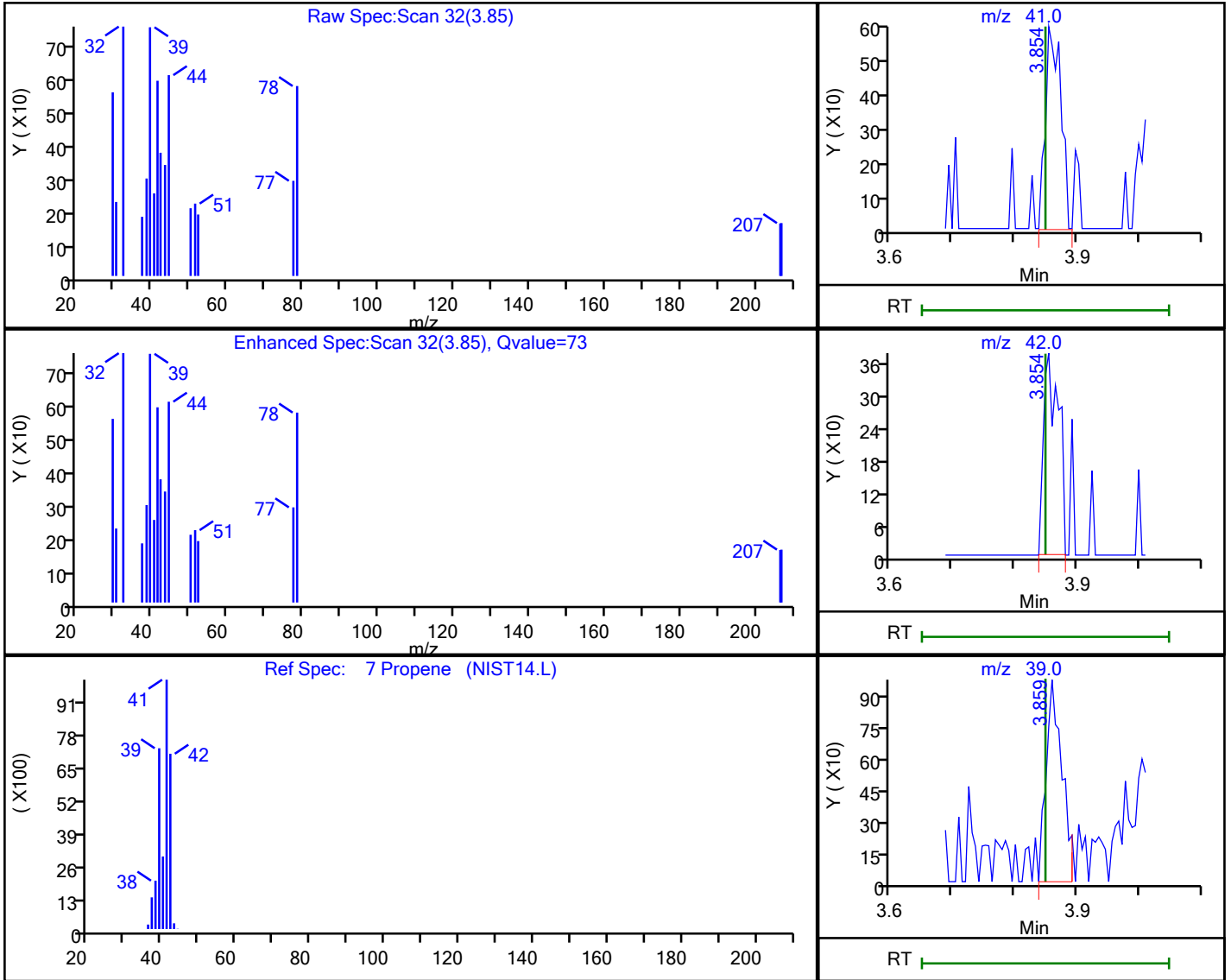
Audit Reason: Invalid Compound ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\MG\20230629-28655.b\GG03L32420.D
 Injection Date: 03-Jul-2023 15:49:30 Instrument ID: MG
 Lims ID: 140-32420-A-1 Lab Sample ID: 140-32420-1
 Client ID: 11191
 Operator ID: ALS Bottle#: 1 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Method: MG_TO15 Limit Group: MSA TO14A_15 Routine ICAL
 Column: RTX-5 (0.32 mm) Detector MS SCAN

7 Propene, CAS: 115-07-1

Processing Results



RT	Mass	Response	Amount
3.85	41.00	1024	0.024327
3.85	42.00	634	
3.86	39.00	1762	

Reviewer: khachitpongpanits, 04-Jul-2023 13:01:50 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

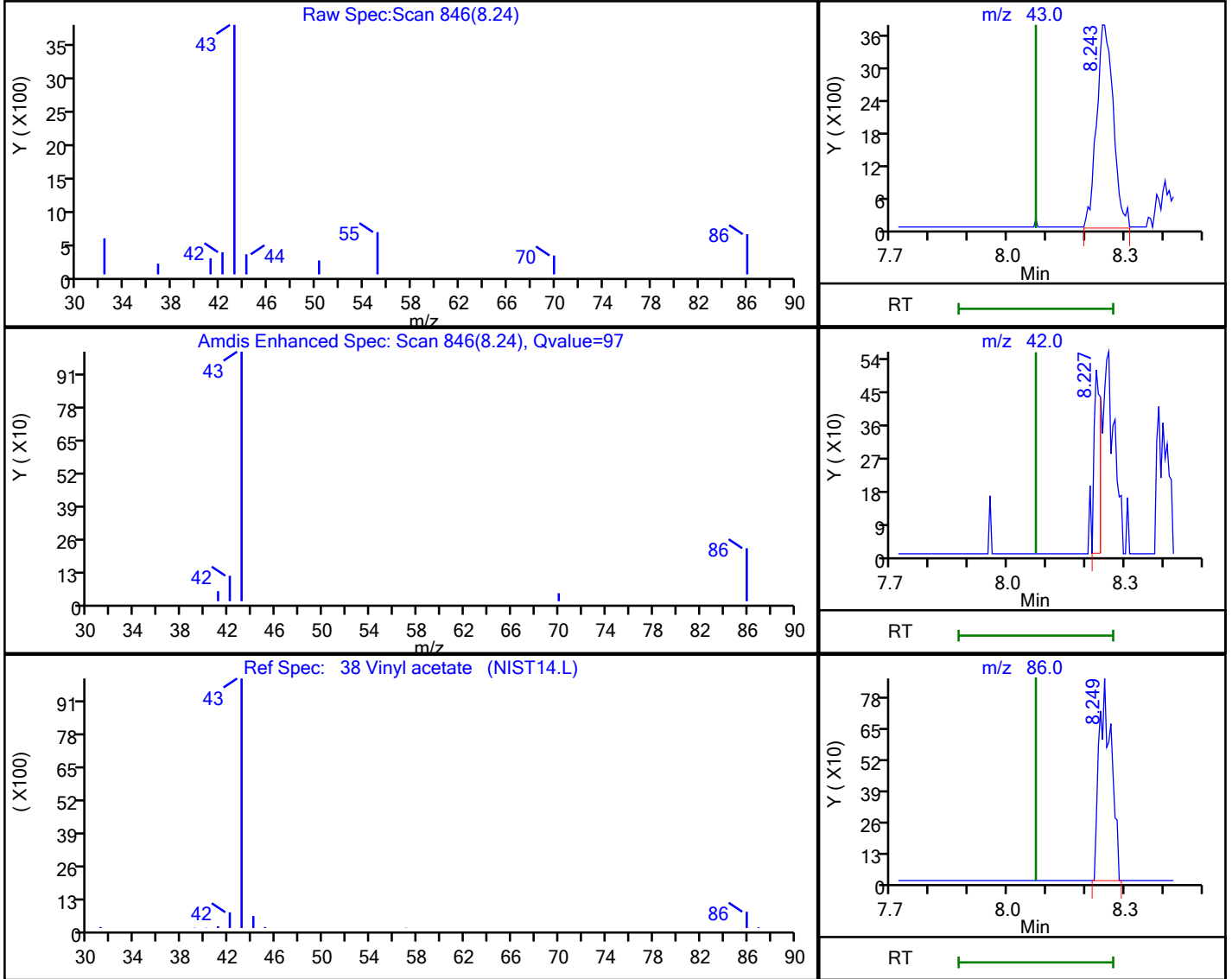
Audit Reason: Invalid Compound ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\MG\20230629-28655.b\GG03L32420.D
 Injection Date: 03-Jul-2023 15:49:30 Instrument ID: MG
 Lims ID: 140-32420-A-1 Lab Sample ID: 140-32420-1
 Client ID: 11191
 Operator ID: ALS Bottle#: 1 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Method: MG_TO15 Limit Group: MSA TO14A_15 Routine ICAL
 Column: RTX-5 (0.32 mm) Detector MS SCAN

38 Vinyl acetate, CAS: 108-05-4

Processing Results



RT	Mass	Response	Amount
8.24	43.00	11041	0.122522
8.23	42.00	557	
8.25	86.00	1878	

Reviewer: khachitpongpanits, 04-Jul-2023 13:02:11 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID