



ANALYTICAL REPORT

PREPARED FOR

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Generated 10/15/2024

JOB DESCRIPTION

2024 Comprehensive Sampling

JOB NUMBER

410-191672-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
10/15/2024

Authorized for release by
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Definitions/Glossary

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
^c	CCV Recovery is outside acceptance limits.
cn	Refer to Case Narrative for further detail
FH	MS and/or MSD recovery above control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

**Job Narrative
410-191672-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/9/2024 2:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.7°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 410-561893 recovered above the upper control limit for Acetone. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D: The continuing calibration verification (CCV) associated with batch 410-562572 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

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

Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Client Sample ID: HD-MW-79-0/1-0

Lab Sample ID: 410-191672-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.2	FH	1.0	0.30	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.65	J	1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	0.32	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-MW-142D-0/1-0

Lab Sample ID: 410-191672-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.57	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-MW-112-0/1-0

Lab Sample ID: 410-191672-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.2		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	1.0		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-MW-115-0/1-0

Lab Sample ID: 410-191672-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	11		1.0	0.30	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	2.0		1.0	0.30	ug/L	1		8260D	Total/NA
Benzene	6.1		1.0	0.30	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	84		1.0	0.30	ug/L	1		8260D	Total/NA
Methyl tert-butyl ether	19		1.0	0.20	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.87	J	2.0	0.70	ug/L	1		8260D	Total/NA
Vinyl chloride	89		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-MW-142S-0/1-0

Lab Sample ID: 410-191672-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.1		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-MW-143S-0/1-0

Lab Sample ID: 410-191672-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.82	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-MW-148A-72.5/73-0

Lab Sample ID: 410-191672-7

No Detections.

Client Sample ID: HD-MW-148A-136/136.5-0

Lab Sample ID: 410-191672-8

No Detections.

Client Sample ID: HD-QC3-0/1-4

Lab Sample ID: 410-191672-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11	J ^c cn	20	0.70	ug/L	1		8260D	Total/NA

Client Sample ID: HD-QC3-0/1-3

Lab Sample ID: 410-191672-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	12	J ^c cn	20	0.70	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Client Sample ID: HD-QC3-0/1-1

Lab Sample ID: 410-191672-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.0		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	1.1		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-QC4-0/1-2

Lab Sample ID: 410-191672-12

No Detections.

Client Sample ID: HD-MW-186-0/1-0

Lab Sample ID: 410-191672-13

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Client Sample ID: HD-MW-79-0/1-0

Lab Sample ID: 410-191672-1

Date Collected: 10/08/24 12:00

Matrix: Water

Date Received: 10/09/24 14:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/11/24 00:36	1
1,1,1-Trichloroethane	ND	FH	1.0	0.30	ug/L			10/11/24 00:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/11/24 00:36	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/11/24 00:36	1
1,1-Dichloroethane	1.2	FH	1.0	0.30	ug/L			10/11/24 00:36	1
1,1-Dichloroethene	ND	FH	1.0	0.30	ug/L			10/11/24 00:36	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/11/24 00:36	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/11/24 00:36	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/11/24 00:36	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/11/24 00:36	1
2-Hexanone	ND		10	0.85	ug/L			10/11/24 00:36	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/11/24 00:36	1
Acetone	ND	^c cn	20	0.70	ug/L			10/11/24 00:36	1
Benzene	ND		1.0	0.30	ug/L			10/11/24 00:36	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/11/24 00:36	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/11/24 00:36	1
Bromoform	ND		4.0	1.0	ug/L			10/11/24 00:36	1
Bromomethane	ND		1.0	0.30	ug/L			10/11/24 00:36	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/11/24 00:36	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/11/24 00:36	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/11/24 00:36	1
Chloroethane	ND		1.0	0.30	ug/L			10/11/24 00:36	1
Chloroform	ND		1.0	0.30	ug/L			10/11/24 00:36	1
Chloromethane	ND		2.0	0.55	ug/L			10/11/24 00:36	1
cis-1,2-Dichloroethene	0.65	J	1.0	0.30	ug/L			10/11/24 00:36	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/11/24 00:36	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/11/24 00:36	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/11/24 00:36	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/11/24 00:36	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/11/24 00:36	1
Styrene	ND		5.0	0.30	ug/L			10/11/24 00:36	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/11/24 00:36	1
Toluene	ND		1.0	0.30	ug/L			10/11/24 00:36	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/11/24 00:36	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/11/24 00:36	1
Trichloroethene	0.32	J	1.0	0.30	ug/L			10/11/24 00:36	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/11/24 00:36	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/24 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		10/11/24 00:36	1
4-Bromofluorobenzene (Surr)	95		80 - 120		10/11/24 00:36	1
Dibromofluoromethane (Surr)	109		80 - 120		10/11/24 00:36	1
Toluene-d8 (Surr)	96		80 - 120		10/11/24 00:36	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Client Sample ID: HD-MW-142D-0/1-0

Lab Sample ID: 410-191672-2

Date Collected: 10/08/24 13:25

Matrix: Water

Date Received: 10/09/24 14:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/11/24 01:41	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/11/24 01:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/11/24 01:41	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/11/24 01:41	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/11/24 01:41	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/11/24 01:41	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/11/24 01:41	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/11/24 01:41	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/11/24 01:41	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/11/24 01:41	1
2-Hexanone	ND		10	0.85	ug/L			10/11/24 01:41	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/11/24 01:41	1
Acetone	ND	^c cn	20	0.70	ug/L			10/11/24 01:41	1
Benzene	ND		1.0	0.30	ug/L			10/11/24 01:41	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/11/24 01:41	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/11/24 01:41	1
Bromoform	ND		4.0	1.0	ug/L			10/11/24 01:41	1
Bromomethane	ND		1.0	0.30	ug/L			10/11/24 01:41	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/11/24 01:41	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/11/24 01:41	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/11/24 01:41	1
Chloroethane	ND		1.0	0.30	ug/L			10/11/24 01:41	1
Chloroform	ND		1.0	0.30	ug/L			10/11/24 01:41	1
Chloromethane	ND		2.0	0.55	ug/L			10/11/24 01:41	1
cis-1,2-Dichloroethene	0.57	J	1.0	0.30	ug/L			10/11/24 01:41	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/11/24 01:41	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/11/24 01:41	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/11/24 01:41	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/11/24 01:41	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/11/24 01:41	1
Styrene	ND		5.0	0.30	ug/L			10/11/24 01:41	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/11/24 01:41	1
Toluene	ND		1.0	0.30	ug/L			10/11/24 01:41	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/11/24 01:41	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/11/24 01:41	1
Trichloroethene	ND		1.0	0.30	ug/L			10/11/24 01:41	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/11/24 01:41	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/24 01:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120					10/11/24 01:41	1
4-Bromofluorobenzene (Surr)	96		80 - 120					10/11/24 01:41	1
Dibromofluoromethane (Surr)	107		80 - 120					10/11/24 01:41	1
Toluene-d8 (Surr)	98		80 - 120					10/11/24 01:41	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Client Sample ID: HD-MW-112-0/1-0

Lab Sample ID: 410-191672-3

Date Collected: 10/07/24 13:50

Matrix: Water

Date Received: 10/09/24 14:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/14/24 03:36	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/14/24 03:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/14/24 03:36	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/14/24 03:36	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/14/24 03:36	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/14/24 03:36	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/14/24 03:36	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/14/24 03:36	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/14/24 03:36	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/14/24 03:36	1
2-Hexanone	ND		10	0.85	ug/L			10/14/24 03:36	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/14/24 03:36	1
Acetone	ND		20	0.70	ug/L			10/14/24 03:36	1
Benzene	ND		1.0	0.30	ug/L			10/14/24 03:36	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/14/24 03:36	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/14/24 03:36	1
Bromoform	ND		4.0	1.0	ug/L			10/14/24 03:36	1
Bromomethane	ND		1.0	0.30	ug/L			10/14/24 03:36	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/14/24 03:36	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/14/24 03:36	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/14/24 03:36	1
Chloroethane	ND		1.0	0.30	ug/L			10/14/24 03:36	1
Chloroform	ND		1.0	0.30	ug/L			10/14/24 03:36	1
Chloromethane	ND	^c cn	2.0	0.55	ug/L			10/14/24 03:36	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/14/24 03:36	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/14/24 03:36	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/14/24 03:36	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/14/24 03:36	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/14/24 03:36	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/14/24 03:36	1
Styrene	ND		5.0	0.30	ug/L			10/14/24 03:36	1
Tetrachloroethene	1.2		1.0	0.30	ug/L			10/14/24 03:36	1
Toluene	ND		1.0	0.30	ug/L			10/14/24 03:36	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/14/24 03:36	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/14/24 03:36	1
Trichloroethene	1.0		1.0	0.30	ug/L			10/14/24 03:36	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/14/24 03:36	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/14/24 03:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		10/14/24 03:36	1
4-Bromofluorobenzene (Surr)	96		80 - 120		10/14/24 03:36	1
Dibromofluoromethane (Surr)	107		80 - 120		10/14/24 03:36	1
Toluene-d8 (Surr)	100		80 - 120		10/14/24 03:36	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Client Sample ID: HD-MW-115-0/1-0

Lab Sample ID: 410-191672-4

Date Collected: 10/07/24 11:40

Matrix: Water

Date Received: 10/09/24 14:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/14/24 03:58	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/14/24 03:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/14/24 03:58	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/14/24 03:58	1
1,1-Dichloroethane	11		1.0	0.30	ug/L			10/14/24 03:58	1
1,1-Dichloroethene	2.0		1.0	0.30	ug/L			10/14/24 03:58	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/14/24 03:58	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/14/24 03:58	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/14/24 03:58	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/14/24 03:58	1
2-Hexanone	ND		10	0.85	ug/L			10/14/24 03:58	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/14/24 03:58	1
Acetone	ND		20	0.70	ug/L			10/14/24 03:58	1
Benzene	6.1		1.0	0.30	ug/L			10/14/24 03:58	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/14/24 03:58	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/14/24 03:58	1
Bromoform	ND		4.0	1.0	ug/L			10/14/24 03:58	1
Bromomethane	ND		1.0	0.30	ug/L			10/14/24 03:58	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/14/24 03:58	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/14/24 03:58	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/14/24 03:58	1
Chloroethane	ND		1.0	0.30	ug/L			10/14/24 03:58	1
Chloroform	ND		1.0	0.30	ug/L			10/14/24 03:58	1
Chloromethane	ND	^c cn	2.0	0.55	ug/L			10/14/24 03:58	1
cis-1,2-Dichloroethene	84		1.0	0.30	ug/L			10/14/24 03:58	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/14/24 03:58	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/14/24 03:58	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/14/24 03:58	1
Methyl tert-butyl ether	19		1.0	0.20	ug/L			10/14/24 03:58	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/14/24 03:58	1
Styrene	ND		5.0	0.30	ug/L			10/14/24 03:58	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/14/24 03:58	1
Toluene	ND		1.0	0.30	ug/L			10/14/24 03:58	1
trans-1,2-Dichloroethene	0.87	J	2.0	0.70	ug/L			10/14/24 03:58	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/14/24 03:58	1
Trichloroethene	ND		1.0	0.30	ug/L			10/14/24 03:58	1
Vinyl chloride	89		1.0	0.30	ug/L			10/14/24 03:58	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/14/24 03:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		10/14/24 03:58	1
4-Bromofluorobenzene (Surr)	97		80 - 120		10/14/24 03:58	1
Dibromofluoromethane (Surr)	105		80 - 120		10/14/24 03:58	1
Toluene-d8 (Surr)	101		80 - 120		10/14/24 03:58	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Client Sample ID: HD-MW-142S-0/1-0

Lab Sample ID: 410-191672-5

Date Collected: 10/07/24 12:14

Matrix: Water

Date Received: 10/09/24 14:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/14/24 04:20	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/14/24 04:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/14/24 04:20	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/14/24 04:20	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/14/24 04:20	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/14/24 04:20	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/14/24 04:20	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/14/24 04:20	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/14/24 04:20	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/14/24 04:20	1
2-Hexanone	ND		10	0.85	ug/L			10/14/24 04:20	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/14/24 04:20	1
Acetone	ND		20	0.70	ug/L			10/14/24 04:20	1
Benzene	ND		1.0	0.30	ug/L			10/14/24 04:20	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/14/24 04:20	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/14/24 04:20	1
Bromoform	ND		4.0	1.0	ug/L			10/14/24 04:20	1
Bromomethane	ND		1.0	0.30	ug/L			10/14/24 04:20	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/14/24 04:20	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/14/24 04:20	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/14/24 04:20	1
Chloroethane	ND		1.0	0.30	ug/L			10/14/24 04:20	1
Chloroform	ND		1.0	0.30	ug/L			10/14/24 04:20	1
Chloromethane	ND	^c cn	2.0	0.55	ug/L			10/14/24 04:20	1
cis-1,2-Dichloroethene	7.1		1.0	0.30	ug/L			10/14/24 04:20	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/14/24 04:20	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/14/24 04:20	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/14/24 04:20	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/14/24 04:20	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/14/24 04:20	1
Styrene	ND		5.0	0.30	ug/L			10/14/24 04:20	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/14/24 04:20	1
Toluene	ND		1.0	0.30	ug/L			10/14/24 04:20	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/14/24 04:20	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/14/24 04:20	1
Trichloroethene	ND		1.0	0.30	ug/L			10/14/24 04:20	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/14/24 04:20	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/14/24 04:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		10/14/24 04:20	1
4-Bromofluorobenzene (Surr)	95		80 - 120		10/14/24 04:20	1
Dibromofluoromethane (Surr)	107		80 - 120		10/14/24 04:20	1
Toluene-d8 (Surr)	99		80 - 120		10/14/24 04:20	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Client Sample ID: HD-MW-143S-0/1-0

Lab Sample ID: 410-191672-6

Date Collected: 10/07/24 10:40

Matrix: Water

Date Received: 10/09/24 14:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/14/24 04:42	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/14/24 04:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/14/24 04:42	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/14/24 04:42	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/14/24 04:42	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/14/24 04:42	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/14/24 04:42	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/14/24 04:42	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/14/24 04:42	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/14/24 04:42	1
2-Hexanone	ND		10	0.85	ug/L			10/14/24 04:42	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/14/24 04:42	1
Acetone	ND		20	0.70	ug/L			10/14/24 04:42	1
Benzene	ND		1.0	0.30	ug/L			10/14/24 04:42	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/14/24 04:42	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/14/24 04:42	1
Bromoform	ND		4.0	1.0	ug/L			10/14/24 04:42	1
Bromomethane	ND		1.0	0.30	ug/L			10/14/24 04:42	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/14/24 04:42	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/14/24 04:42	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/14/24 04:42	1
Chloroethane	ND		1.0	0.30	ug/L			10/14/24 04:42	1
Chloroform	ND		1.0	0.30	ug/L			10/14/24 04:42	1
Chloromethane	ND	^c cn	2.0	0.55	ug/L			10/14/24 04:42	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/14/24 04:42	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/14/24 04:42	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/14/24 04:42	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/14/24 04:42	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/14/24 04:42	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/14/24 04:42	1
Styrene	ND		5.0	0.30	ug/L			10/14/24 04:42	1
Tetrachloroethene	0.82	J	1.0	0.30	ug/L			10/14/24 04:42	1
Toluene	ND		1.0	0.30	ug/L			10/14/24 04:42	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/14/24 04:42	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/14/24 04:42	1
Trichloroethene	ND		1.0	0.30	ug/L			10/14/24 04:42	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/14/24 04:42	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/14/24 04:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		10/14/24 04:42	1
4-Bromofluorobenzene (Surr)	96		80 - 120		10/14/24 04:42	1
Dibromofluoromethane (Surr)	107		80 - 120		10/14/24 04:42	1
Toluene-d8 (Surr)	100		80 - 120		10/14/24 04:42	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Client Sample ID: HD-MW-148A-72.5/73-0

Lab Sample ID: 410-191672-7

Date Collected: 10/07/24 14:00

Matrix: Water

Date Received: 10/09/24 14:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/14/24 05:04	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/14/24 05:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/14/24 05:04	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/14/24 05:04	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/14/24 05:04	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/14/24 05:04	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/14/24 05:04	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/14/24 05:04	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/14/24 05:04	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/14/24 05:04	1
2-Hexanone	ND		10	0.85	ug/L			10/14/24 05:04	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/14/24 05:04	1
Acetone	ND		20	0.70	ug/L			10/14/24 05:04	1
Benzene	ND		1.0	0.30	ug/L			10/14/24 05:04	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/14/24 05:04	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/14/24 05:04	1
Bromoform	ND		4.0	1.0	ug/L			10/14/24 05:04	1
Bromomethane	ND		1.0	0.30	ug/L			10/14/24 05:04	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/14/24 05:04	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/14/24 05:04	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/14/24 05:04	1
Chloroethane	ND		1.0	0.30	ug/L			10/14/24 05:04	1
Chloroform	ND		1.0	0.30	ug/L			10/14/24 05:04	1
Chloromethane	ND	^c cn	2.0	0.55	ug/L			10/14/24 05:04	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/14/24 05:04	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/14/24 05:04	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/14/24 05:04	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/14/24 05:04	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/14/24 05:04	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/14/24 05:04	1
Styrene	ND		5.0	0.30	ug/L			10/14/24 05:04	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/14/24 05:04	1
Toluene	ND		1.0	0.30	ug/L			10/14/24 05:04	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/14/24 05:04	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/14/24 05:04	1
Trichloroethene	ND		1.0	0.30	ug/L			10/14/24 05:04	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/14/24 05:04	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/14/24 05:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		10/14/24 05:04	1
4-Bromofluorobenzene (Surr)	96		80 - 120		10/14/24 05:04	1
Dibromofluoromethane (Surr)	108		80 - 120		10/14/24 05:04	1
Toluene-d8 (Surr)	100		80 - 120		10/14/24 05:04	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Client Sample ID: HD-MW-148A-136/136.5-0

Lab Sample ID: 410-191672-8

Date Collected: 10/07/24 12:40

Matrix: Water

Date Received: 10/09/24 14:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/14/24 05:26	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/14/24 05:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/14/24 05:26	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/14/24 05:26	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/14/24 05:26	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/14/24 05:26	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/14/24 05:26	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/14/24 05:26	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/14/24 05:26	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/14/24 05:26	1
2-Hexanone	ND		10	0.85	ug/L			10/14/24 05:26	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/14/24 05:26	1
Acetone	ND		20	0.70	ug/L			10/14/24 05:26	1
Benzene	ND		1.0	0.30	ug/L			10/14/24 05:26	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/14/24 05:26	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/14/24 05:26	1
Bromoform	ND		4.0	1.0	ug/L			10/14/24 05:26	1
Bromomethane	ND		1.0	0.30	ug/L			10/14/24 05:26	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/14/24 05:26	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/14/24 05:26	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/14/24 05:26	1
Chloroethane	ND		1.0	0.30	ug/L			10/14/24 05:26	1
Chloroform	ND		1.0	0.30	ug/L			10/14/24 05:26	1
Chloromethane	ND	^c cn	2.0	0.55	ug/L			10/14/24 05:26	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/14/24 05:26	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/14/24 05:26	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/14/24 05:26	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/14/24 05:26	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/14/24 05:26	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/14/24 05:26	1
Styrene	ND		5.0	0.30	ug/L			10/14/24 05:26	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/14/24 05:26	1
Toluene	ND		1.0	0.30	ug/L			10/14/24 05:26	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/14/24 05:26	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/14/24 05:26	1
Trichloroethene	ND		1.0	0.30	ug/L			10/14/24 05:26	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/14/24 05:26	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/14/24 05:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		10/14/24 05:26	1
4-Bromofluorobenzene (Surr)	95		80 - 120		10/14/24 05:26	1
Dibromofluoromethane (Surr)	108		80 - 120		10/14/24 05:26	1
Toluene-d8 (Surr)	100		80 - 120		10/14/24 05:26	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Client Sample ID: HD-QC3-0/1-4

Lab Sample ID: 410-191672-9

Date Collected: 10/08/24 13:00

Matrix: Water

Date Received: 10/09/24 14:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/10/24 23:52	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/10/24 23:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/10/24 23:52	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/10/24 23:52	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/10/24 23:52	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/10/24 23:52	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/10/24 23:52	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/10/24 23:52	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/10/24 23:52	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/10/24 23:52	1
2-Hexanone	ND		10	0.85	ug/L			10/10/24 23:52	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/10/24 23:52	1
Acetone	11	J ^c cn	20	0.70	ug/L			10/10/24 23:52	1
Benzene	ND		1.0	0.30	ug/L			10/10/24 23:52	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/10/24 23:52	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/10/24 23:52	1
Bromoform	ND		4.0	1.0	ug/L			10/10/24 23:52	1
Bromomethane	ND		1.0	0.30	ug/L			10/10/24 23:52	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/10/24 23:52	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/10/24 23:52	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/10/24 23:52	1
Chloroethane	ND		1.0	0.30	ug/L			10/10/24 23:52	1
Chloroform	ND		1.0	0.30	ug/L			10/10/24 23:52	1
Chloromethane	ND		2.0	0.55	ug/L			10/10/24 23:52	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/10/24 23:52	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/10/24 23:52	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/10/24 23:52	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/10/24 23:52	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/10/24 23:52	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/10/24 23:52	1
Styrene	ND		5.0	0.30	ug/L			10/10/24 23:52	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/10/24 23:52	1
Toluene	ND		1.0	0.30	ug/L			10/10/24 23:52	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/10/24 23:52	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/10/24 23:52	1
Trichloroethene	ND		1.0	0.30	ug/L			10/10/24 23:52	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/10/24 23:52	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/10/24 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		10/10/24 23:52	1
4-Bromofluorobenzene (Surr)	97		80 - 120		10/10/24 23:52	1
Dibromofluoromethane (Surr)	107		80 - 120		10/10/24 23:52	1
Toluene-d8 (Surr)	99		80 - 120		10/10/24 23:52	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Client Sample ID: HD-QC3-0/1-3

Lab Sample ID: 410-191672-10

Date Collected: 10/08/24 12:55

Matrix: Water

Date Received: 10/09/24 14:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/11/24 00:14	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/11/24 00:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/11/24 00:14	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/11/24 00:14	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/11/24 00:14	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/11/24 00:14	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/11/24 00:14	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/11/24 00:14	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/11/24 00:14	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/11/24 00:14	1
2-Hexanone	ND		10	0.85	ug/L			10/11/24 00:14	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/11/24 00:14	1
Acetone	12	J ^c cn	20	0.70	ug/L			10/11/24 00:14	1
Benzene	ND		1.0	0.30	ug/L			10/11/24 00:14	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/11/24 00:14	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/11/24 00:14	1
Bromoform	ND		4.0	1.0	ug/L			10/11/24 00:14	1
Bromomethane	ND		1.0	0.30	ug/L			10/11/24 00:14	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/11/24 00:14	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/11/24 00:14	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/11/24 00:14	1
Chloroethane	ND		1.0	0.30	ug/L			10/11/24 00:14	1
Chloroform	ND		1.0	0.30	ug/L			10/11/24 00:14	1
Chloromethane	ND		2.0	0.55	ug/L			10/11/24 00:14	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/11/24 00:14	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/11/24 00:14	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/11/24 00:14	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/11/24 00:14	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/11/24 00:14	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/11/24 00:14	1
Styrene	ND		5.0	0.30	ug/L			10/11/24 00:14	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/11/24 00:14	1
Toluene	ND		1.0	0.30	ug/L			10/11/24 00:14	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/11/24 00:14	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/11/24 00:14	1
Trichloroethene	ND		1.0	0.30	ug/L			10/11/24 00:14	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/11/24 00:14	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/11/24 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		10/11/24 00:14	1
4-Bromofluorobenzene (Surr)	95		80 - 120		10/11/24 00:14	1
Dibromofluoromethane (Surr)	107		80 - 120		10/11/24 00:14	1
Toluene-d8 (Surr)	98		80 - 120		10/11/24 00:14	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Client Sample ID: HD-QC3-0/1-1

Lab Sample ID: 410-191672-11

Date Collected: 10/07/24 14:20

Matrix: Water

Date Received: 10/09/24 14:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/14/24 05:47	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/14/24 05:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/14/24 05:47	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/14/24 05:47	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/14/24 05:47	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/14/24 05:47	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/14/24 05:47	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/14/24 05:47	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/14/24 05:47	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/14/24 05:47	1
2-Hexanone	ND		10	0.85	ug/L			10/14/24 05:47	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/14/24 05:47	1
Acetone	ND		20	0.70	ug/L			10/14/24 05:47	1
Benzene	ND		1.0	0.30	ug/L			10/14/24 05:47	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/14/24 05:47	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/14/24 05:47	1
Bromoform	ND		4.0	1.0	ug/L			10/14/24 05:47	1
Bromomethane	ND		1.0	0.30	ug/L			10/14/24 05:47	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/14/24 05:47	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/14/24 05:47	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/14/24 05:47	1
Chloroethane	ND		1.0	0.30	ug/L			10/14/24 05:47	1
Chloroform	ND		1.0	0.30	ug/L			10/14/24 05:47	1
Chloromethane	ND	^c cn	2.0	0.55	ug/L			10/14/24 05:47	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/14/24 05:47	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/14/24 05:47	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/14/24 05:47	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/14/24 05:47	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/14/24 05:47	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/14/24 05:47	1
Styrene	ND		5.0	0.30	ug/L			10/14/24 05:47	1
Tetrachloroethene	1.0		1.0	0.30	ug/L			10/14/24 05:47	1
Toluene	ND		1.0	0.30	ug/L			10/14/24 05:47	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/14/24 05:47	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/14/24 05:47	1
Trichloroethene	1.1		1.0	0.30	ug/L			10/14/24 05:47	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/14/24 05:47	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/14/24 05:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		10/14/24 05:47	1
4-Bromofluorobenzene (Surr)	96		80 - 120		10/14/24 05:47	1
Dibromofluoromethane (Surr)	107		80 - 120		10/14/24 05:47	1
Toluene-d8 (Surr)	100		80 - 120		10/14/24 05:47	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Client Sample ID: HD-QC4-0/1-2

Lab Sample ID: 410-191672-12

Date Collected: 10/07/24 00:00

Matrix: Water

Date Received: 10/09/24 14:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/13/24 23:15	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/13/24 23:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/13/24 23:15	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/13/24 23:15	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/13/24 23:15	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/13/24 23:15	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/13/24 23:15	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/13/24 23:15	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/13/24 23:15	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/13/24 23:15	1
2-Hexanone	ND		10	0.85	ug/L			10/13/24 23:15	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/13/24 23:15	1
Acetone	ND		20	0.70	ug/L			10/13/24 23:15	1
Benzene	ND		1.0	0.30	ug/L			10/13/24 23:15	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/13/24 23:15	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/13/24 23:15	1
Bromoform	ND		4.0	1.0	ug/L			10/13/24 23:15	1
Bromomethane	ND		1.0	0.30	ug/L			10/13/24 23:15	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/13/24 23:15	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/13/24 23:15	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/13/24 23:15	1
Chloroethane	ND		1.0	0.30	ug/L			10/13/24 23:15	1
Chloroform	ND		1.0	0.30	ug/L			10/13/24 23:15	1
Chloromethane	ND	^c cn	2.0	0.55	ug/L			10/13/24 23:15	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/13/24 23:15	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/13/24 23:15	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/13/24 23:15	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/13/24 23:15	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/13/24 23:15	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/13/24 23:15	1
Styrene	ND		5.0	0.30	ug/L			10/13/24 23:15	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/13/24 23:15	1
Toluene	ND		1.0	0.30	ug/L			10/13/24 23:15	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/13/24 23:15	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/13/24 23:15	1
Trichloroethene	ND		1.0	0.30	ug/L			10/13/24 23:15	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/13/24 23:15	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/13/24 23:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		10/13/24 23:15	1
4-Bromofluorobenzene (Surr)	98		80 - 120		10/13/24 23:15	1
Dibromofluoromethane (Surr)	106		80 - 120		10/13/24 23:15	1
Toluene-d8 (Surr)	100		80 - 120		10/13/24 23:15	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Client Sample ID: HD-MW-186-0/1-0

Lab Sample ID: 410-191672-13

Date Collected: 10/09/24 08:00

Matrix: Water

Date Received: 10/09/24 14:05

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/14/24 06:09	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/14/24 06:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/14/24 06:09	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/14/24 06:09	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/14/24 06:09	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/14/24 06:09	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/14/24 06:09	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/14/24 06:09	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/14/24 06:09	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/14/24 06:09	1
2-Hexanone	ND		10	0.85	ug/L			10/14/24 06:09	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/14/24 06:09	1
Acetone	ND		20	0.70	ug/L			10/14/24 06:09	1
Benzene	ND		1.0	0.30	ug/L			10/14/24 06:09	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/14/24 06:09	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/14/24 06:09	1
Bromoform	ND		4.0	1.0	ug/L			10/14/24 06:09	1
Bromomethane	ND		1.0	0.30	ug/L			10/14/24 06:09	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/14/24 06:09	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/14/24 06:09	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/14/24 06:09	1
Chloroethane	ND		1.0	0.30	ug/L			10/14/24 06:09	1
Chloroform	ND		1.0	0.30	ug/L			10/14/24 06:09	1
Chloromethane	ND	^c cn	2.0	0.55	ug/L			10/14/24 06:09	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/14/24 06:09	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/14/24 06:09	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/14/24 06:09	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/14/24 06:09	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/14/24 06:09	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/14/24 06:09	1
Styrene	ND		5.0	0.30	ug/L			10/14/24 06:09	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/14/24 06:09	1
Toluene	ND		1.0	0.30	ug/L			10/14/24 06:09	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/14/24 06:09	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/14/24 06:09	1
Trichloroethene	ND		1.0	0.30	ug/L			10/14/24 06:09	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/14/24 06:09	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/14/24 06:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		10/14/24 06:09	1
4-Bromofluorobenzene (Surr)	95		80 - 120		10/14/24 06:09	1
Dibromofluoromethane (Surr)	107		80 - 120		10/14/24 06:09	1
Toluene-d8 (Surr)	99		80 - 120		10/14/24 06:09	1

Default Detection Limits

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	RL	MDL	Units
1,1,1,2-Tetrachloroethane	1.0	0.30	ug/L
1,1,1-Trichloroethane	1.0	0.30	ug/L
1,1,2,2-Tetrachloroethane	1.0	0.30	ug/L
1,1,2-Trichloroethane	1.0	0.30	ug/L
1,1-Dichloroethane	1.0	0.30	ug/L
1,1-Dichloroethene	1.0	0.30	ug/L
1,2-Dibromoethane (EDB)	1.0	0.20	ug/L
1,2-Dichloroethane	1.0	0.30	ug/L
1,2-Dichloropropane	1.0	0.30	ug/L
2-Butanone (MEK)	10	0.50	ug/L
2-Hexanone	10	0.85	ug/L
4-Methyl-2-pentanone (MIBK)	10	0.50	ug/L
Acetone	20	0.70	ug/L
Benzene	1.0	0.30	ug/L
Bromochloromethane	5.0	0.20	ug/L
Bromodichloromethane	1.0	0.20	ug/L
Bromoform	4.0	1.0	ug/L
Bromomethane	1.0	0.30	ug/L
Carbon disulfide	5.0	0.30	ug/L
Carbon tetrachloride	1.0	0.30	ug/L
Chlorobenzene	1.0	0.30	ug/L
Chloroethane	1.0	0.30	ug/L
Chloroform	1.0	0.30	ug/L
Chloromethane	2.0	0.55	ug/L
cis-1,2-Dichloroethene	1.0	0.30	ug/L
cis-1,3-Dichloropropene	1.0	0.20	ug/L
Dibromochloromethane	1.0	0.20	ug/L
Ethylbenzene	1.0	0.40	ug/L
Methyl tert-butyl ether	1.0	0.20	ug/L
Methylene Chloride	1.0	0.30	ug/L
Styrene	5.0	0.30	ug/L
Tetrachloroethene	1.0	0.30	ug/L
Toluene	1.0	0.30	ug/L
trans-1,2-Dichloroethene	2.0	0.70	ug/L
trans-1,3-Dichloropropene	1.0	0.20	ug/L
Trichloroethene	1.0	0.30	ug/L
Vinyl chloride	1.0	0.30	ug/L
Xylenes, Total	1.0	0.40	ug/L

Surrogate Summary

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (80-120)	BFB (80-120)	DBFM (80-120)	TOL (80-120)
410-191672-1	HD-MW-79-0/1-0	104	95	109	96
410-191672-1 MS	HD-MW-79-0/1-0 MS	99	98	105	100
410-191672-1 MSD	HD-MW-79-0/1-0 MSD	102	97	104	98
410-191672-2	HD-MW-142D-0/1-0	100	96	107	98
410-191672-3	HD-MW-112-0/1-0	102	96	107	100
410-191672-4	HD-MW-115-0/1-0	102	97	105	101
410-191672-5	HD-MW-142S-0/1-0	101	95	107	99
410-191672-6	HD-MW-143S-0/1-0	102	96	107	100
410-191672-7	HD-MW-148A-72.5/73-0	103	96	108	100
410-191672-8	HD-MW-148A-136/136.5-0	105	95	108	100
410-191672-9	HD-QC3-0/1-4	105	97	107	99
410-191672-10	HD-QC3-0/1-3	103	95	107	98
410-191672-11	HD-QC3-0/1-1	101	96	107	100
410-191672-12	HD-QC4-0/1-2	99	98	106	100
410-191672-13	HD-MW-186-0/1-0	105	95	107	99
LCS 410-561893/4	Lab Control Sample	98	97	103	99
LCS 410-562572/5	Lab Control Sample	105	98	105	103
LCSD 410-562572/6	Lab Control Sample Dup	97	99	103	103
MB 410-561893/6	Method Blank	98	95	106	97
MB 410-562572/10	Method Blank	100	99	104	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Groundwater Sciences Corporation

Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-561893/6
Matrix: Water
Analysis Batch: 561893

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/10/24 23:31	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/10/24 23:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/10/24 23:31	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/10/24 23:31	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/10/24 23:31	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/10/24 23:31	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/10/24 23:31	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/10/24 23:31	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/10/24 23:31	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/10/24 23:31	1
2-Hexanone	ND		10	0.85	ug/L			10/10/24 23:31	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/10/24 23:31	1
Acetone	ND		20	0.70	ug/L			10/10/24 23:31	1
Benzene	ND		1.0	0.30	ug/L			10/10/24 23:31	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/10/24 23:31	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/10/24 23:31	1
Bromoform	ND		4.0	1.0	ug/L			10/10/24 23:31	1
Bromomethane	ND		1.0	0.30	ug/L			10/10/24 23:31	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/10/24 23:31	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/10/24 23:31	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/10/24 23:31	1
Chloroethane	ND		1.0	0.30	ug/L			10/10/24 23:31	1
Chloroform	ND		1.0	0.30	ug/L			10/10/24 23:31	1
Chloromethane	ND		2.0	0.55	ug/L			10/10/24 23:31	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/10/24 23:31	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/10/24 23:31	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/10/24 23:31	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/10/24 23:31	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/10/24 23:31	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/10/24 23:31	1
Styrene	ND		5.0	0.30	ug/L			10/10/24 23:31	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/10/24 23:31	1
Toluene	ND		1.0	0.30	ug/L			10/10/24 23:31	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/10/24 23:31	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/10/24 23:31	1
Trichloroethene	ND		1.0	0.30	ug/L			10/10/24 23:31	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/10/24 23:31	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/10/24 23:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		80 - 120		10/10/24 23:31	1
4-Bromofluorobenzene (Surr)	95		80 - 120		10/10/24 23:31	1
Dibromofluoromethane (Surr)	106		80 - 120		10/10/24 23:31	1
Toluene-d8 (Surr)	97		80 - 120		10/10/24 23:31	1

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

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

Lab Sample ID: LCS 410-561893/4
Matrix: Water
Analysis Batch: 561893

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	20.0		ug/L		100	79 - 120
1,1,1-Trichloroethane	20.0	21.9		ug/L		110	73 - 120
1,1,2,2-Tetrachloroethane	20.0	20.8		ug/L		104	72 - 120
1,1,2-Trichloroethane	20.0	19.8		ug/L		99	80 - 120
1,1-Dichloroethane	20.0	22.6		ug/L		113	80 - 120
1,1-Dichloroethene	20.0	24.3		ug/L		121	80 - 131
1,2-Dibromoethane (EDB)	20.0	20.3		ug/L		102	77 - 120
1,2-Dichloroethane	20.0	22.1		ug/L		110	73 - 124
1,2-Dichloropropane	20.0	21.4		ug/L		107	80 - 120
2-Butanone (MEK)	250	256		ug/L		102	59 - 135
2-Hexanone	250	264		ug/L		105	56 - 135
4-Methyl-2-pentanone (MIBK)	250	278		ug/L		111	62 - 133
Acetone	250	271		ug/L		108	57 - 143
Benzene	20.0	21.3		ug/L		106	80 - 120
Bromochloromethane	20.0	20.5		ug/L		103	80 - 120
Bromodichloromethane	20.0	21.3		ug/L		106	71 - 120
Bromoform	20.0	19.4		ug/L		97	51 - 120
Bromomethane	20.0	20.0		ug/L		100	53 - 128
Carbon disulfide	20.0	21.4		ug/L		107	65 - 128
Carbon tetrachloride	20.0	22.1		ug/L		110	64 - 134
Chlorobenzene	20.0	20.2		ug/L		101	80 - 120
Chloroethane	20.0	21.2		ug/L		106	55 - 123
Chloroform	20.0	22.0		ug/L		110	80 - 120
Chloromethane	20.0	20.8		ug/L		104	39 - 134
cis-1,2-Dichloroethene	20.0	21.5		ug/L		107	80 - 125
cis-1,3-Dichloropropene	20.0	18.5		ug/L		93	75 - 120
Dibromochloromethane	20.0	19.6		ug/L		98	71 - 120
Ethylbenzene	20.0	20.1		ug/L		101	80 - 120
Methyl tert-butyl ether	20.0	19.2		ug/L		96	69 - 122
Methylene Chloride	20.0	22.1		ug/L		111	80 - 120
Styrene	20.0	19.5		ug/L		97	80 - 120
Tetrachloroethene	20.0	20.7		ug/L		104	80 - 120
Toluene	20.0	20.1		ug/L		100	80 - 120
trans-1,2-Dichloroethene	20.0	22.0		ug/L		110	80 - 126
trans-1,3-Dichloropropene	20.0	18.4		ug/L		92	67 - 120
Trichloroethene	20.0	20.6		ug/L		103	80 - 120
Vinyl chloride	20.0	20.9		ug/L		105	56 - 120
Xylenes, Total	60.0	59.4		ug/L		99	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
Toluene-d8 (Surr)	99		80 - 120

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

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

Lab Sample ID: 410-191672-1 MS

Matrix: Water

Analysis Batch: 561893

Client Sample ID: HD-MW-79-0/1-0 MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		20.0	21.4		ug/L		107	75 - 120
1,1,1-Trichloroethane	ND	FH	20.0	24.5	FH	ug/L		122	68 - 120
1,1,2,2-Tetrachloroethane	ND		20.0	19.9		ug/L		100	71 - 122
1,1,2-Trichloroethane	ND		20.0	20.4		ug/L		102	80 - 120
1,1-Dichloroethane	1.2	FH	20.0	26.1	FH	ug/L		124	74 - 120
1,1-Dichloroethene	ND	FH	20.0	26.3	FH	ug/L		132	74 - 121
1,2-Dibromoethane (EDB)	ND		20.0	20.3		ug/L		102	80 - 120
1,2-Dichloroethane	ND		20.0	22.8		ug/L		114	69 - 120
1,2-Dichloropropane	ND		20.0	23.2		ug/L		116	77 - 120
2-Butanone (MEK)	ND		250	252		ug/L		101	65 - 131
2-Hexanone	ND		250	262		ug/L		105	67 - 132
4-Methyl-2-pentanone (MIBK)	ND		250	274		ug/L		110	66 - 129
Acetone	ND	^c cn	250	264		ug/L		106	58 - 141
Benzene	ND		20.0	23.2		ug/L		116	81 - 120
Bromochloromethane	ND		20.0	22.2		ug/L		111	76 - 126
Bromodichloromethane	ND		20.0	22.0		ug/L		110	73 - 120
Bromoform	ND		20.0	19.3		ug/L		96	64 - 125
Bromomethane	ND		20.0	21.5		ug/L		108	43 - 128
Carbon disulfide	ND		20.0	23.3		ug/L		116	75 - 132
Carbon tetrachloride	ND		20.0	24.9		ug/L		124	63 - 128
Chlorobenzene	ND		20.0	21.9		ug/L		109	80 - 120
Chloroethane	ND		20.0	22.7		ug/L		113	60 - 121
Chloroform	ND		20.0	23.8		ug/L		119	74 - 120
Chloromethane	ND		20.0	21.9		ug/L		110	49 - 126
cis-1,2-Dichloroethene	0.65	J	20.0	23.9		ug/L		116	81 - 121
cis-1,3-Dichloropropene	ND		20.0	18.5		ug/L		93	71 - 120
Dibromochloromethane	ND		20.0	20.3		ug/L		102	74 - 120
Ethylbenzene	ND		20.0	22.1		ug/L		111	78 - 120
Methyl tert-butyl ether	ND		20.0	19.0		ug/L		95	75 - 120
Methylene Chloride	ND		20.0	22.9		ug/L		114	77 - 120
Styrene	ND		20.0	19.6		ug/L		98	78 - 120
Tetrachloroethene	ND		20.0	23.3		ug/L		117	68 - 125
Toluene	ND		20.0	21.9		ug/L		110	79 - 120
trans-1,2-Dichloroethene	ND		20.0	23.6		ug/L		118	74 - 120
trans-1,3-Dichloropropene	ND		20.0	18.4		ug/L		92	72 - 120
Trichloroethene	0.32	J	20.0	21.8		ug/L		108	76 - 120
Vinyl chloride	ND		20.0	22.9		ug/L		115	52 - 120
Xylenes, Total	ND		60.0	63.9		ug/L		107	78 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	105		80 - 120
Toluene-d8 (Surr)	100		80 - 120

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

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

Lab Sample ID: 410-191672-1 MSD

Matrix: Water

Analysis Batch: 561893

Client Sample ID: HD-MW-79-0/1-0 MSD

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		20.0	19.5		ug/L		97	75 - 120	9	30
1,1,1-Trichloroethane	ND	FH	20.0	23.0		ug/L		115	68 - 120	6	30
1,1,2,2-Tetrachloroethane	ND		20.0	18.7		ug/L		94	71 - 122	6	30
1,1,2-Trichloroethane	ND		20.0	18.1		ug/L		91	80 - 120	12	30
1,1-Dichloroethane	1.2	FH	20.0	24.4		ug/L		116	74 - 120	7	30
1,1-Dichloroethene	ND	FH	20.0	25.1	FH	ug/L		126	74 - 121	5	30
1,2-Dibromoethane (EDB)	ND		20.0	18.6		ug/L		93	80 - 120	9	30
1,2-Dichloroethane	ND		20.0	20.9		ug/L		105	69 - 120	9	30
1,2-Dichloropropane	ND		20.0	21.3		ug/L		107	77 - 120	8	30
2-Butanone (MEK)	ND		250	240		ug/L		96	65 - 131	5	30
2-Hexanone	ND		250	243		ug/L		97	67 - 132	7	30
4-Methyl-2-pentanone (MIBK)	ND		250	256		ug/L		102	66 - 129	7	30
Acetone	ND	^c cn	250	235		ug/L		94	58 - 141	12	30
Benzene	ND		20.0	21.6		ug/L		108	81 - 120	7	30
Bromochloromethane	ND		20.0	20.1		ug/L		101	76 - 126	10	30
Bromodichloromethane	ND		20.0	20.7		ug/L		103	73 - 120	6	30
Bromoform	ND		20.0	17.9		ug/L		89	64 - 125	8	30
Bromomethane	ND		20.0	19.5		ug/L		98	43 - 128	10	30
Carbon disulfide	ND		20.0	22.2		ug/L		111	75 - 132	5	30
Carbon tetrachloride	ND		20.0	23.0		ug/L		115	63 - 128	8	30
Chlorobenzene	ND		20.0	19.8		ug/L		99	80 - 120	10	30
Chloroethane	ND		20.0	21.6		ug/L		108	60 - 121	5	30
Chloroform	ND		20.0	22.3		ug/L		112	74 - 120	7	30
Chloromethane	ND		20.0	20.8		ug/L		104	49 - 126	5	30
cis-1,2-Dichloroethene	0.65	J	20.0	21.6		ug/L		105	81 - 121	10	30
cis-1,3-Dichloropropene	ND		20.0	17.4		ug/L		87	71 - 120	6	30
Dibromochloromethane	ND		20.0	18.7		ug/L		93	74 - 120	9	30
Ethylbenzene	ND		20.0	20.4		ug/L		102	78 - 120	8	30
Methyl tert-butyl ether	ND		20.0	17.9		ug/L		90	75 - 120	6	30
Methylene Chloride	ND		20.0	21.7		ug/L		108	77 - 120	5	30
Styrene	ND		20.0	18.4		ug/L		92	78 - 120	6	30
Tetrachloroethene	ND		20.0	22.2		ug/L		111	68 - 125	5	30
Toluene	ND		20.0	20.4		ug/L		102	79 - 120	7	30
trans-1,2-Dichloroethene	ND		20.0	23.3		ug/L		116	74 - 120	1	30
trans-1,3-Dichloropropene	ND		20.0	17.0		ug/L		85	72 - 120	8	30
Trichloroethene	0.32	J	20.0	21.3		ug/L		105	76 - 120	3	30
Vinyl chloride	ND		20.0	21.4		ug/L		107	52 - 120	7	30
Xylenes, Total	ND		60.0	59.7		ug/L		100	78 - 120	7	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	104		80 - 120
Toluene-d8 (Surr)	98		80 - 120

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

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

Lab Sample ID: MB 410-562572/10
Matrix: Water
Analysis Batch: 562572

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/13/24 22:31	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			10/13/24 22:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			10/13/24 22:31	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			10/13/24 22:31	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			10/13/24 22:31	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			10/13/24 22:31	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			10/13/24 22:31	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			10/13/24 22:31	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			10/13/24 22:31	1
2-Butanone (MEK)	ND		10	0.50	ug/L			10/13/24 22:31	1
2-Hexanone	ND		10	0.85	ug/L			10/13/24 22:31	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			10/13/24 22:31	1
Acetone	ND		20	0.70	ug/L			10/13/24 22:31	1
Benzene	ND		1.0	0.30	ug/L			10/13/24 22:31	1
Bromochloromethane	ND		5.0	0.20	ug/L			10/13/24 22:31	1
Bromodichloromethane	ND		1.0	0.20	ug/L			10/13/24 22:31	1
Bromoform	ND		4.0	1.0	ug/L			10/13/24 22:31	1
Bromomethane	ND		1.0	0.30	ug/L			10/13/24 22:31	1
Carbon disulfide	ND		5.0	0.30	ug/L			10/13/24 22:31	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			10/13/24 22:31	1
Chlorobenzene	ND		1.0	0.30	ug/L			10/13/24 22:31	1
Chloroethane	ND		1.0	0.30	ug/L			10/13/24 22:31	1
Chloroform	ND		1.0	0.30	ug/L			10/13/24 22:31	1
Chloromethane	ND		2.0	0.55	ug/L			10/13/24 22:31	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			10/13/24 22:31	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/13/24 22:31	1
Dibromochloromethane	ND		1.0	0.20	ug/L			10/13/24 22:31	1
Ethylbenzene	ND		1.0	0.40	ug/L			10/13/24 22:31	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			10/13/24 22:31	1
Methylene Chloride	ND		1.0	0.30	ug/L			10/13/24 22:31	1
Styrene	ND		5.0	0.30	ug/L			10/13/24 22:31	1
Tetrachloroethene	ND		1.0	0.30	ug/L			10/13/24 22:31	1
Toluene	ND		1.0	0.30	ug/L			10/13/24 22:31	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			10/13/24 22:31	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			10/13/24 22:31	1
Trichloroethene	ND		1.0	0.30	ug/L			10/13/24 22:31	1
Vinyl chloride	ND		1.0	0.30	ug/L			10/13/24 22:31	1
Xylenes, Total	ND		1.0	0.40	ug/L			10/13/24 22:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		10/13/24 22:31	1
4-Bromofluorobenzene (Surr)	99		80 - 120		10/13/24 22:31	1
Dibromofluoromethane (Surr)	104		80 - 120		10/13/24 22:31	1
Toluene-d8 (Surr)	102		80 - 120		10/13/24 22:31	1

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

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

Lab Sample ID: LCS 410-562572/5
Matrix: Water
Analysis Batch: 562572

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	19.3		ug/L		97	79 - 120
1,1,1-Trichloroethane	20.0	18.6		ug/L		93	73 - 120
1,1,2,2-Tetrachloroethane	20.0	18.8		ug/L		94	72 - 120
1,1,2-Trichloroethane	20.0	18.3		ug/L		92	80 - 120
1,1-Dichloroethane	20.0	19.9		ug/L		99	80 - 120
1,1-Dichloroethene	20.0	20.1		ug/L		100	80 - 131
1,2-Dibromoethane (EDB)	20.0	18.0		ug/L		90	77 - 120
1,2-Dichloroethane	20.0	18.8		ug/L		94	73 - 124
1,2-Dichloropropane	20.0	18.4		ug/L		92	80 - 120
2-Butanone (MEK)	250	225		ug/L		90	59 - 135
2-Hexanone	250	244		ug/L		98	56 - 135
4-Methyl-2-pentanone (MIBK)	250	243		ug/L		97	62 - 133
Acetone	250	267		ug/L		107	57 - 143
Benzene	20.0	18.3		ug/L		91	80 - 120
Bromochloromethane	20.0	19.1		ug/L		95	80 - 120
Bromodichloromethane	20.0	18.7		ug/L		94	71 - 120
Bromoform	20.0	18.1		ug/L		90	51 - 120
Bromomethane	20.0	14.2		ug/L		71	53 - 128
Carbon disulfide	20.0	17.3		ug/L		87	65 - 128
Carbon tetrachloride	20.0	19.3		ug/L		96	64 - 134
Chlorobenzene	20.0	18.4		ug/L		92	80 - 120
Chloroethane	20.0	16.3		ug/L		81	55 - 123
Chloroform	20.0	19.3		ug/L		97	80 - 120
Chloromethane	20.0	13.8		ug/L		69	39 - 134
cis-1,2-Dichloroethene	20.0	19.0		ug/L		95	80 - 125
cis-1,3-Dichloropropene	20.0	15.5		ug/L		78	75 - 120
Dibromochloromethane	20.0	18.5		ug/L		93	71 - 120
Ethylbenzene	20.0	18.6		ug/L		93	80 - 120
Methyl tert-butyl ether	20.0	16.9		ug/L		85	69 - 122
Methylene Chloride	20.0	18.9		ug/L		95	80 - 120
Styrene	20.0	17.8		ug/L		89	80 - 120
Tetrachloroethene	20.0	18.9		ug/L		95	80 - 120
Toluene	20.0	18.1		ug/L		91	80 - 120
trans-1,2-Dichloroethene	20.0	19.8		ug/L		99	80 - 126
trans-1,3-Dichloropropene	20.0	16.7		ug/L		84	67 - 120
Trichloroethene	20.0	17.8		ug/L		89	80 - 120
Vinyl chloride	20.0	14.1		ug/L		71	56 - 120
Xylenes, Total	60.0	54.8		ug/L		91	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	105		80 - 120
Toluene-d8 (Surr)	103		80 - 120

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

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

Lab Sample ID: LCSD 410-562572/6
Matrix: Water
Analysis Batch: 562572

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	18.3		ug/L		91	79 - 120	6	30
1,1,1-Trichloroethane	20.0	18.4		ug/L		92	73 - 120	1	30
1,1,2,2-Tetrachloroethane	20.0	18.9		ug/L		95	72 - 120	1	30
1,1,2-Trichloroethane	20.0	18.3		ug/L		91	80 - 120	0	30
1,1-Dichloroethane	20.0	18.9		ug/L		94	80 - 120	5	30
1,1-Dichloroethene	20.0	19.6		ug/L		98	80 - 131	2	30
1,2-Dibromoethane (EDB)	20.0	18.2		ug/L		91	77 - 120	1	30
1,2-Dichloroethane	20.0	18.5		ug/L		93	73 - 124	1	30
1,2-Dichloropropane	20.0	17.9		ug/L		89	80 - 120	3	30
2-Butanone (MEK)	250	230		ug/L		92	59 - 135	2	30
2-Hexanone	250	249		ug/L		99	56 - 135	2	30
4-Methyl-2-pentanone (MIBK)	250	245		ug/L		98	62 - 133	1	30
Acetone	250	241		ug/L		96	57 - 143	10	30
Benzene	20.0	17.8		ug/L		89	80 - 120	3	30
Bromochloromethane	20.0	17.8		ug/L		89	80 - 120	7	30
Bromodichloromethane	20.0	18.2		ug/L		91	71 - 120	3	30
Bromoform	20.0	18.3		ug/L		92	51 - 120	1	30
Bromomethane	20.0	14.2		ug/L		71	53 - 128	0	30
Carbon disulfide	20.0	17.0		ug/L		85	65 - 128	2	30
Carbon tetrachloride	20.0	18.7		ug/L		93	64 - 134	3	30
Chlorobenzene	20.0	18.2		ug/L		91	80 - 120	1	30
Chloroethane	20.0	15.7		ug/L		79	55 - 123	3	30
Chloroform	20.0	18.3		ug/L		92	80 - 120	5	30
Chloromethane	20.0	13.6		ug/L		68	39 - 134	1	30
cis-1,2-Dichloroethene	20.0	18.1		ug/L		91	80 - 125	4	30
cis-1,3-Dichloropropene	20.0	16.0		ug/L		80	75 - 120	3	30
Dibromochloromethane	20.0	18.1		ug/L		90	71 - 120	3	30
Ethylbenzene	20.0	18.4		ug/L		92	80 - 120	1	30
Methyl tert-butyl ether	20.0	16.8		ug/L		84	69 - 122	1	30
Methylene Chloride	20.0	18.4		ug/L		92	80 - 120	3	30
Styrene	20.0	17.5		ug/L		87	80 - 120	2	30
Tetrachloroethene	20.0	18.8		ug/L		94	80 - 120	1	30
Toluene	20.0	18.2		ug/L		91	80 - 120	0	30
trans-1,2-Dichloroethene	20.0	18.6		ug/L		93	80 - 126	6	30
trans-1,3-Dichloropropene	20.0	17.2		ug/L		86	67 - 120	3	30
Trichloroethene	20.0	17.2		ug/L		86	80 - 120	3	30
Vinyl chloride	20.0	14.1		ug/L		71	56 - 120	0	30
Xylenes, Total	60.0	54.4		ug/L		91	80 - 120	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
Toluene-d8 (Surr)	103		80 - 120

QC Association Summary

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

GC/MS VOA

Analysis Batch: 561893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-191672-1	HD-MW-79-0/1-0	Total/NA	Water	8260D	
410-191672-2	HD-MW-142D-0/1-0	Total/NA	Water	8260D	
410-191672-9	HD-QC3-0/1-4	Total/NA	Water	8260D	
410-191672-10	HD-QC3-0/1-3	Total/NA	Water	8260D	
MB 410-561893/6	Method Blank	Total/NA	Water	8260D	
LCS 410-561893/4	Lab Control Sample	Total/NA	Water	8260D	
410-191672-1 MS	HD-MW-79-0/1-0 MS	Total/NA	Water	8260D	
410-191672-1 MSD	HD-MW-79-0/1-0 MSD	Total/NA	Water	8260D	

Analysis Batch: 562572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-191672-3	HD-MW-112-0/1-0	Total/NA	Water	8260D	
410-191672-4	HD-MW-115-0/1-0	Total/NA	Water	8260D	
410-191672-5	HD-MW-142S-0/1-0	Total/NA	Water	8260D	
410-191672-6	HD-MW-143S-0/1-0	Total/NA	Water	8260D	
410-191672-7	HD-MW-148A-72.5/73-0	Total/NA	Water	8260D	
410-191672-8	HD-MW-148A-136/136.5-0	Total/NA	Water	8260D	
410-191672-11	HD-QC3-0/1-1	Total/NA	Water	8260D	
410-191672-12	HD-QC4-0/1-2	Total/NA	Water	8260D	
410-191672-13	HD-MW-186-0/1-0	Total/NA	Water	8260D	
MB 410-562572/10	Method Blank	Total/NA	Water	8260D	
LCS 410-562572/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-562572/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Client Sample ID: HD-MW-79-0/1-0

Lab Sample ID: 410-191672-1

Date Collected: 10/08/24 12:00

Matrix: Water

Date Received: 10/09/24 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	561893	K4WN	ELLE	10/11/24 00:36

Client Sample ID: HD-MW-142D-0/1-0

Lab Sample ID: 410-191672-2

Date Collected: 10/08/24 13:25

Matrix: Water

Date Received: 10/09/24 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	561893	K4WN	ELLE	10/11/24 01:41

Client Sample ID: HD-MW-112-0/1-0

Lab Sample ID: 410-191672-3

Date Collected: 10/07/24 13:50

Matrix: Water

Date Received: 10/09/24 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	562572	JS6E	ELLE	10/14/24 03:36

Client Sample ID: HD-MW-115-0/1-0

Lab Sample ID: 410-191672-4

Date Collected: 10/07/24 11:40

Matrix: Water

Date Received: 10/09/24 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	562572	JS6E	ELLE	10/14/24 03:58

Client Sample ID: HD-MW-142S-0/1-0

Lab Sample ID: 410-191672-5

Date Collected: 10/07/24 12:14

Matrix: Water

Date Received: 10/09/24 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	562572	JS6E	ELLE	10/14/24 04:20

Client Sample ID: HD-MW-143S-0/1-0

Lab Sample ID: 410-191672-6

Date Collected: 10/07/24 10:40

Matrix: Water

Date Received: 10/09/24 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	562572	JS6E	ELLE	10/14/24 04:42

Client Sample ID: HD-MW-148A-72.5/73-0

Lab Sample ID: 410-191672-7

Date Collected: 10/07/24 14:00

Matrix: Water

Date Received: 10/09/24 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	562572	JS6E	ELLE	10/14/24 05:04

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Client Sample ID: HD-MW-148A-136/136.5-0

Lab Sample ID: 410-191672-8

Date Collected: 10/07/24 12:40

Matrix: Water

Date Received: 10/09/24 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	562572	JS6E	ELLE	10/14/24 05:26

Client Sample ID: HD-QC3-0/1-4

Lab Sample ID: 410-191672-9

Date Collected: 10/08/24 13:00

Matrix: Water

Date Received: 10/09/24 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	561893	K4WN	ELLE	10/10/24 23:52

Client Sample ID: HD-QC3-0/1-3

Lab Sample ID: 410-191672-10

Date Collected: 10/08/24 12:55

Matrix: Water

Date Received: 10/09/24 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	561893	K4WN	ELLE	10/11/24 00:14

Client Sample ID: HD-QC3-0/1-1

Lab Sample ID: 410-191672-11

Date Collected: 10/07/24 14:20

Matrix: Water

Date Received: 10/09/24 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	562572	JS6E	ELLE	10/14/24 05:47

Client Sample ID: HD-QC4-0/1-2

Lab Sample ID: 410-191672-12

Date Collected: 10/07/24 00:00

Matrix: Water

Date Received: 10/09/24 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	562572	JS6E	ELLE	10/13/24 23:15

Client Sample ID: HD-MW-186-0/1-0

Lab Sample ID: 410-191672-13

Date Collected: 10/09/24 08:00

Matrix: Water

Date Received: 10/09/24 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	562572	JS6E	ELLE	10/14/24 06:09

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-25

Method Summary

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE

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

Laboratory References:
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Groundwater Sciences Corporation
Project/Site: 2024 Comprehensive Sampling

Job ID: 410-191672-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-191672-1	HD-MW-79-0/1-0	Water	10/08/24 12:00	10/09/24 14:05
410-191672-2	HD-MW-142D-0/1-0	Water	10/08/24 13:25	10/09/24 14:05
410-191672-3	HD-MW-112-0/1-0	Water	10/07/24 13:50	10/09/24 14:05
410-191672-4	HD-MW-115-0/1-0	Water	10/07/24 11:40	10/09/24 14:05
410-191672-5	HD-MW-142S-0/1-0	Water	10/07/24 12:14	10/09/24 14:05
410-191672-6	HD-MW-143S-0/1-0	Water	10/07/24 10:40	10/09/24 14:05
410-191672-7	HD-MW-148A-72.5/73-0	Water	10/07/24 14:00	10/09/24 14:05
410-191672-8	HD-MW-148A-136/136.5-0	Water	10/07/24 12:40	10/09/24 14:05
410-191672-9	HD-QC3-0/1-4	Water	10/08/24 13:00	10/09/24 14:05
410-191672-10	HD-QC3-0/1-3	Water	10/08/24 12:55	10/09/24 14:05
410-191672-11	HD-QC3-0/1-1	Water	10/07/24 14:20	10/09/24 14:05
410-191672-12	HD-QC4-0/1-2	Water	10/07/24 00:00	10/09/24 14:05
410-191672-13	HD-MW-186-0/1-0	Water	10/09/24 08:00	10/09/24 14:05

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Instrument ID: 9137

Analysis Batch Number: 557456

Lab Sample ID: IC 410-557456/3

Client Sample ID:

Date Analyzed: 09/30/24 19:14

Lab File ID: WS30X02.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Freon 133a	2.43	Incomplete Integration	DVW2	10/01/24 08:23
n-Propyl acetate	8.86	Incomplete Integration	DVW2	10/01/24 09:05
cis-1,4-Dichloro-2-butene	12.22	Incomplete Integration	DVW2	10/01/24 08:23

Lab Sample ID: IC 410-557456/4

Client Sample ID:

Date Analyzed: 09/30/24 19:35

Lab File ID: WS30X03.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Freon 133a	2.43	Incomplete Integration	DVW2	10/01/24 08:23
n-Propyl acetate	8.87	Incomplete Integration	DVW2	10/01/24 09:05
cis-1,4-Dichloro-2-butene	12.23	Incomplete Integration	DVW2	10/01/24 08:23

Lab Sample ID: IC 410-557456/5

Client Sample ID:

Date Analyzed: 09/30/24 19:57

Lab File ID: WS30X04.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Propyl acetate	8.87	Incomplete Integration	DVW2	10/01/24 09:05
cis-1,4-Dichloro-2-butene	12.23	Incomplete Integration	DVW2	10/01/24 08:23

Lab Sample ID: IC 410-557456/6

Client Sample ID:

Date Analyzed: 09/30/24 20:19

Lab File ID: WS30X05.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Propyl acetate	8.86	Incomplete Integration	DVW2	10/01/24 08:43
cis-1,4-Dichloro-2-butene	12.22	Incomplete Integration	DVW2	10/01/24 08:22

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Instrument ID: 9137

Analysis Batch Number: 557456

Lab Sample ID: IC 410-557456/7

Client Sample ID:

Date Analyzed: 09/30/24 20:41

Lab File ID: WS30X06.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Propyl acetate	8.87	Incomplete Integration	DVW2	10/01/24 09:05
cis-1,4-Dichloro-2-butene	12.23	Incomplete Integration	DVW2	10/01/24 08:22

Lab Sample ID: IC 410-557456/8

Client Sample ID:

Date Analyzed: 09/30/24 21:03

Lab File ID: WS30X07.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Propyl acetate	8.87	Incomplete Integration	DVW2	10/01/24 09:05
cis-1,4-Dichloro-2-butene	12.23	Incomplete Integration	DVW2	10/01/24 08:22

Lab Sample ID: IC 410-557456/12

Client Sample ID:

Date Analyzed: 09/30/24 22:30

Lab File ID: WS30X11.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrolein	3.53	Incomplete Integration	DVW2	10/01/24 08:18
Freon 113	3.70	Incomplete Integration	DVW2	10/01/24 08:18
2-Propanol	3.93	Incomplete Integration	DVW2	10/01/24 08:18
n-Heptane	7.90	Incomplete Integration	DVW2	10/01/24 08:19
Methylcyclohexane	8.67	Incomplete Integration	DVW2	10/01/24 08:19
1-Chlorohexane	11.33	Incomplete Integration	DVW2	10/01/24 08:19
Cyclohexanone	12.25	Incomplete Integration	DVW2	10/01/24 08:19
Benzyl chloride	13.29	Incomplete Integration	DVW2	10/01/24 08:19

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Instrument ID: 9137

Analysis Batch Number: 557456

Lab Sample ID: IC 410-557456/13

Client Sample ID:

Date Analyzed: 09/30/24 22:52

Lab File ID: WS30X12.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	3.19	Incomplete Integration	DVW2	10/01/24 08:16
t-Butyl alcohol	4.55	Incomplete Integration	DVW2	10/01/24 08:16
n-Heptane	7.89	Incomplete Integration	DVW2	10/01/24 08:17
1,4-Dioxane	8.79	Incomplete Integration	DVW2	10/01/24 08:17
1-Chlorohexane	11.33	Incomplete Integration	DVW2	10/01/24 08:17

Lab Sample ID: IC 410-557456/14

Client Sample ID:

Date Analyzed: 09/30/24 23:13

Lab File ID: WS30X13.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.79	Incomplete Integration	DVW2	10/01/24 08:15

Lab Sample ID: IC 410-557456/15

Client Sample ID:

Date Analyzed: 09/30/24 23:35

Lab File ID: WS30X14.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Nitropropane	9.32	Incomplete Integration	DVW2	10/01/24 08:27

Lab Sample ID: ICIS 410-557456/16

Client Sample ID:

Date Analyzed: 09/30/24 23:57

Lab File ID: WS30X15.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol-d10 (IS)	4.42	Incomplete Integration	DVW2	10/01/24 08:10
Toluene	9.96	Incomplete Integration	DVW2	10/01/24 08:10
1,2,4-Trimethylbenzene	12.92	Incomplete Integration	DVW2	10/01/24 08:11

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Instrument ID: 9137

Analysis Batch Number: 561893

Lab Sample ID: CCVIS 410-561893/3

Client Sample ID:

Date Analyzed: 10/10/24 22:25

Lab File ID: WC10X52.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	3.11	Incomplete Integration	S8BP	10/10/24 22:49
Methyl acetate	4.16	Baseline	S8BP	10/10/24 22:49

Lab Sample ID: 410-191672-9

Client Sample ID: HD-QC3-0/1-4

Date Analyzed: 10/10/24 23:52

Lab File ID: WC10X56.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2,2-Tetrachloroethane		Invalid Compound ID	FQ4L	10/11/24 13:54
2-Butanone (MEK)		Invalid Compound ID	FQ4L	10/11/24 13:54
2-Hexanone		Invalid Compound ID	FQ4L	10/11/24 13:54

Lab Sample ID: 410-191672-10

Client Sample ID: HD-QC3-0/1-3

Date Analyzed: 10/11/24 00:14

Lab File ID: WC10X57.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)		Invalid Compound ID	FQ4L	10/11/24 13:54
2-Hexanone		Invalid Compound ID	FQ4L	10/11/24 13:55

Lab Sample ID: 410-191672-1

Client Sample ID: HD-MW-79-0/1-0

Date Analyzed: 10/11/24 00:36

Lab File ID: WC10X58.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)		Invalid Compound ID	FQ4L	10/11/24 14:23

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Instrument ID: 9137

Analysis Batch Number: 561893

Lab Sample ID: 410-191672-2

Client Sample ID: HD-MW-142D-0/1-0

Date Analyzed: 10/11/24 01:41

Lab File ID: WC10X61.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)		Invalid Compound ID	FQ4L	10/11/24 14:00
2-Hexanone		Invalid Compound ID	FQ4L	10/11/24 14:00
Carbon disulfide		Invalid Compound ID	FQ4L	10/11/24 14:00

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Instrument ID: 9137

Analysis Batch Number: 562572

Lab Sample ID: MB 410-562572/10

Client Sample ID:

Date Analyzed: 10/13/24 22:31

Lab File ID: WC13X09.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone		Invalid Compound ID	JS6E	10/13/24 23:13

Lab Sample ID: 410-191672-4

Client Sample ID: HD-MW-115-0/1-0

Date Analyzed: 10/14/24 03:58

Lab File ID: WC13X24.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2,2-Tetrachloroethane		Invalid Compound ID	N9NA	10/15/24 11:31
1,1,2-Trichloroethane		Invalid Compound ID	N9NA	10/15/24 11:31
1,2-Dichloroethane		Invalid Compound ID	N9NA	10/15/24 11:31
2-Hexanone		Invalid Compound ID	N9NA	10/15/24 11:31
Chloroethane		Invalid Compound ID	N9NA	10/15/24 11:30
Chloromethane		Invalid Compound ID	N9NA	10/15/24 11:30

Lab Sample ID: 410-191672-5

Client Sample ID: HD-MW-142S-0/1-0

Date Analyzed: 10/14/24 04:20

Lab File ID: WC13X25.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride		Invalid Compound ID	N9NA	10/15/24 11:31

Lab Sample ID: 410-191672-6

Client Sample ID: HD-MW-143S-0/1-0

Date Analyzed: 10/14/24 04:42

Lab File ID: WC13X26.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)		Invalid Compound ID	N9NA	10/15/24 11:32

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Instrument ID: 9137

Analysis Batch Number: 562572

Lab Sample ID: 410-191672-7

Client Sample ID: HD-MW-148A-72.5/73-0

Date Analyzed: 10/14/24 05:04

Lab File ID: WC13X27.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)		Invalid Compound ID	N9NA	10/15/24 11:33
2-Hexanone		Invalid Compound ID	N9NA	10/15/24 11:33

Lab Sample ID: 410-191672-8

Client Sample ID: HD-MW-148A-136/136.5-0

Date Analyzed: 10/14/24 05:26

Lab File ID: WC13X28.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)		Invalid Compound ID	N9NA	10/15/24 11:33

Lab Sample ID: 410-191672-11

Client Sample ID: HD-QC3-0/1-1

Date Analyzed: 10/14/24 05:47

Lab File ID: WC13X29.D

GC Column: R-624SilMS 30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrachloroethene	10.50	Incomplete Integration	N9NA	10/15/24 11:34

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_4ppbEtOH_00696	10/07/24	09/30/24	DI Water, Lot DI 23226	1000 mL	MSV_CCV_2CEVE_00195	4 uL	2-Chloroethyl vinyl ether	4 ug/L
					MSV_CCV_CYC_00010	32 uL	Cyclohexanone	199.993 ug/L
					MSV_CCV_ETOH_00007	20 uL	Ethanol	249.991 ug/L
					MSV_CCV_GASES_00881	2 uL	1,2-Dichloro-1,1,2-trifluoroethane	4 ug/L
							Bromomethane	4 ug/L
							Butadiene	4 ug/L
							Chloroethane	4 ug/L
							Chloromethane	4 ug/L
							Dichlorodifluoromethane	4 ug/L
							Dichlorofluoromethane	4 ug/L
							Trichlorofluoromethane	4 ug/L
							Vinyl chloride	4 ug/L
					MSV_CCV_VOC#1_00203	4 uL	1,1,1,2-Tetrachloroethane	4 ug/L
							1,1,1-Trichloroethane	4 ug/L
							1,1,2,2-Tetrachloroethane	4 ug/L
							1,1,2-Trichloroethane	4 ug/L
							1,1-Dichloroethane	4 ug/L
							1,1-Dichloroethene	4 ug/L
							1,1-Dichloropropene	4 ug/L
							1,2,3-Trichlorobenzene	4 ug/L
							1,2,3-Trichloropropane	4 ug/L
							1,2,4-Trichlorobenzene	4 ug/L
							1,2,4-Trimethylbenzene	4 ug/L
							1,2-Dibromo-3-Chloropropane	4 ug/L
							1,2-Dibromoethane (EDB)	4 ug/L
							1,2-Dichlorobenzene	4 ug/L
							1,2-Dichloroethane	4 ug/L
							1,2-Dichloropropane	4 ug/L
							1,3,5-Trimethylbenzene	4 ug/L
							1,3-Dichlorobenzene	4 ug/L
							1,3-Dichloropropane	4 ug/L
							1,4-Dichlorobenzene	4 ug/L
							2,2-Dichloropropane	4 ug/L
							2-Chlorotoluene	4 ug/L
							4-Chlorotoluene	4 ug/L
							4-Isopropyltoluene	4 ug/L
							Benzene	4 ug/L
							Bromobenzene	4 ug/L
							Bromochloromethane	4 ug/L
							Bromodichloromethane	4 ug/L
							Bromoform	4 ug/L
							Carbon tetrachloride	4 ug/L
							Chlorobenzene	4 ug/L
							Chloroform	4 ug/L
							cis-1,2-Dichloroethene	4 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	4 ug/L
							Dibromochloromethane	4 ug/L
							Dibromomethane	4 ug/L
							Ethylbenzene	4 ug/L
							Hexachlorobutadiene	4 ug/L
							Isopropylbenzene	4 ug/L
							m-Xylene & p-Xylene	8 ug/L
							Methylene Chloride	4 ug/L
							n-Butylbenzene	4 ug/L
							N-Propylbenzene	4 ug/L
							Naphthalene	4 ug/L
							o-Xylene	4 ug/L
							sec-Butylbenzene	4 ug/L
							Styrene	4 ug/L
							tert-Butylbenzene	4 ug/L
							Tetrachloroethene	4 ug/L
							Toluene	4 ug/L
							trans-1,2-Dichloroethene	4 ug/L
							trans-1,3-Dichloropropene	4 ug/L
							Trichloroethene	4 ug/L
							1,1,2-Trichloro-1,2,2-trifluor oethane	4 ug/L
							1,2,3-Trimethylbenzene	4 ug/L
							1,3,5-Trichlorobenzene	4 ug/L
							1,3-Diethylbenzene	4 ug/L
							1,4-Dioxane	50 ug/L
							1-Chlorohexane	4 ug/L
							2-Chloro-1,3-butadiene	4 ug/L
							2-ethoxy-2-methyl butane	4 ug/L
							2-Methyl-2-propanol	20 ug/L
							2-Methylnaphthalene	4 ug/L
							2-Nitropropane	20 ug/L
							3-Chloro-1-propene	4 ug/L
							Acrylonitrile	10 ug/L
							Benzyl chloride	4 ug/L
							Carbon disulfide	4 ug/L
							Cyclohexane	4 ug/L
							Ethyl methacrylate	4 ug/L
							Hexane	4 ug/L
							Iodomethane	4 ug/L
							Isobutyl alcohol	50 ug/L
							Isopropyl alcohol	20 ug/L
							Isopropyl ether	4 ug/L
							Methacrylonitrile	10 ug/L
							Methyl acetate	4 ug/L
							Methyl methacrylate	4 ug/L
							Methyl tert-butyl ether	4 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylcyclohexane	4 ug/L
							n-Butanol	50 ug/L
							n-Heptane	4 ug/L
							o-diethylbenzene	4 ug/L
							p-Diethylbenzene	4 ug/L
							Pentane	4 ug/L
							Propionitrile	20 ug/L
							Tert-amyl methyl ether	4 ug/L
							Tert-butyl ethyl ether	4 ug/L
							Tetrahydrofuran	20 ug/L
							trans-1,4-Dichloro-2-butene	10 ug/L
					MSV_CCV_VOC#3_00200	3.2 uL	Acrolein	40.0851 ug/L
					MSV_V_Acr_Std_00007	0.8 uL	2-Butanone (MEK)	8 ug/L
							2-Hexanone	8 ug/L
							4-Methyl-2-pentanone (MIBK)	8 ug/L
							Acetone	8 ug/L
							2-Ethylhexyl acrylate	4.0002 ug/L
							n-Butyl acrylate	4.00028 ug/L
							Ethyl acrylate	3.99919 ug/L
							Methyl acrylate	4.00019 ug/L
.MSV_CCV_2CEVE_00195	10/30/24	09/30/24	Methanol, Lot EH471	5 mL	MSV_V_2CLEVE_00202	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
..MSV_V_2CLEVE_00202	05/31/27		Restek, Lot A0211425		(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
.MSV_CCV_CYC_00010	01/22/25	07/22/24	50/50 MeOH/Water, Lot EH471	200 mL	MSV_VCYC_STK_00013	8.495 mL	Cyclohexanone	6249.77 ug/mL
..MSV_VCYC_STK_00013	01/22/25	07/22/24	50/50 MeOH/Water, Lot EH471	10 mL	MSV_CYC_00010	1.4714 g	Cyclohexanone	147140 ug/mL
...MSV_CYC_00010	06/30/27		Chem Service, Lot 15471000		(Purchased Reagent)		Cyclohexanone	1 g/g
.MSV_CCV_ETOH_00007	03/17/25	09/17/24	Methanol, Lot EH471	200 mL	MSV_VETOH_STK_00016	8.476 mL	Ethanol	12499.6 ug/mL
..MSV_VETOH_STK_00016	03/17/25	09/17/24	Methanol, Lot EH471	10 mL	MSV_EtOH_00049	2.9494 g	Ethanol	294940 ug/mL
...MSV_EtOH_00049	04/30/28		Chem Service, Lot 15122500		(Purchased Reagent)		Ethanol	1 g/g
.MSV_CCV_GASES_00881	10/07/24		Restek, Lot A0212054		(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL
							Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
							1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
.MSV_CCV_VOC#1_00203	10/30/24	09/30/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00200	1 mL	1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSV_MegaMix#2_00193	1 mL	1,1,2-Trichloro-1,2,2-trifluoroethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,3-Diethylbenzene	1000 ug/mL
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-ethoxy-2-methyl butane	1000 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Nitropropane	5000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzyl chloride	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Hexane	1000 ug/mL
							Iodomethane	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl alcohol	5000 ug/mL
							Isopropyl ether	1000 ug/mL
							Methacrylonitrile	2500 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							n-Butanol	12500 ug/mL
							n-Heptane	1000 ug/mL
							o-diethylbenzene	1000 ug/mL
							p-Diethylbenzene	1000 ug/mL
							Pentane	1000 ug/mL
							Propionitrile	5000 ug/mL
							Tert-amyl methyl ether	1000 ug/mL
							Tert-butyl ethyl ether	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_MegaMIX#1_00200	05/31/27	Restek, Lot A00211483			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00193	05/31/27		Restek, Lot A0212010		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluor oethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,3-Diethylbenzene	5000 ug/mL
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-ethoxy-2-methyl butane	5000 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							2-Methylnaphthalene	5000 ug/mL
							2-Nitropropane	25000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Acrylonitrile	12500 ug/mL
							Benzyl chloride	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Hexane	5000 ug/mL
							Iodomethane	5000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Isopropyl ether	5000 ug/mL
							Methacrylonitrile	12500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							n-Butanol	62500 ug/mL
							n-Heptane	5000 ug/mL
							o-diethylbenzene	5000 ug/mL
							p-Diethylbenzene	5000 ug/mL
							Pentane	5000 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
							Tetrahydrofuran	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
.MSV_CCV_VOC#3_00200	10/30/24	09/30/24	Methanol, Lot EH471	5 mL	MSV_CCV_ACR_00023	0.5 mL	Acrolein	12526.6 ug/mL
					MSV_V_Ketones_00200	1 mL	2-Butanone (MEK)	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone (MIBK)	2500 ug/mL
..MSV_CCV_ACR_00023	11/25/24	09/26/24	Methanol, Lot EH471	10 mL	MSV_VACR_STK_00043	8.846 mL	Acrolein	125266 ug/mL
...MSV_VACR_STK_00043	11/25/24	09/26/24	Methanol, Lot EH471	10 mL	MSV_ACROLEIN_00035	1.5243 g	Acrolein	141607 ug/mL
....MSV_ACROLEIN_00035	01/31/25	Chem Service, Lot 15493200			(Purchased Reagent)		Acrolein	0.929 g/g
..MSV_V_Ketones_00200	04/30/27	Restek, Lot A0210935			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_V_Acr_Std_00007	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_MStk_2E6A_00004	0.885 mL	Acetone	12500 ug/mL
					MSV_MStk_BAcr_00005	0.908 mL	2-Ethylhexyl acrylate	5000.25 ug/mL
					MSV_MStk_EtAc_00004	0.998 mL	n-Butyl acrylate	5000.36 ug/mL
					MSV_MStk_MAc_00004	0.859 mL	Ethyl acrylate	4998.98 ug/mL
..MSV_MStk_2E6A_00004	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_2Eth6Acry_00001	0.565 g	Methyl acrylate	5000.24 ug/mL
...MSV_2Eth6Acry_00001	02/28/28		Sigma Aldrich, Lot MKCN1302		(Purchased Reagent)		2-Ethylhexyl acrylate	56500 ug/mL
..MSV_MStk_BAcr_00005	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_nButylAcr_00005	0.5507 g	2-Ethylhexyl acrylate	1 g/g
...MSV_nButylAcr_00005	01/31/26		Chem Service, Lot 14061100		(Purchased Reagent)		n-Butyl acrylate	55070 ug/mL
..MSV_MStk_EtAc_00004	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_EthylAcry_00003	0.5009 g	n-Butyl acrylate	1 g/g
...MSV_EthylAcry_00003	03/31/26		Chem Service, Lot 14239800		(Purchased Reagent)		Ethyl acrylate	50090 ug/mL
..MSV_MStk_MAc_00004	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_MethylAcr_00003	0.5821 g	Ethyl acrylate	1 g/g
...MSV_MethylAcr_00003	01/31/26		Chem Service, Lot 14104500		(Purchased Reagent)		Methyl acrylate	58210 ug/mL
MSV_CCV_2CEVE_00195	10/30/24	09/30/24	Methanol, Lot EH471	5 mL	MSV_V_2CLEVE_00202	1 mL	Methyl acrylate	1 g/g
.MSV_V_2CLEVE_00202	05/31/27		Restek, Lot A0211425		(Purchased Reagent)		2-Chloroethyl vinyl ether	1000 ug/mL
MSV_CCV_CYC_00010	01/22/25	07/22/24	50/50 MeOH/Water, Lot EH471	200 mL	MSV_VCYC_STK_00013	8.495 mL	2-Chloroethyl vinyl ether	5000 ug/mL
.MSV_VCYC_STK_00013	01/22/25	07/22/24	50/50 MeOH/Water, Lot EH471	10 mL	MSV_CYC_00010	1.4714 g	Cyclohexanone	6249.77 ug/mL
..MSV_CYC_00010	06/30/27		Chem Service, Lot 15471000		(Purchased Reagent)		Cyclohexanone	147140 ug/mL
MSV_CCV_EE_00007	11/07/24	05/07/24	Methanol, Lot EH471	50 mL	MSV_EE_MISCSK_00014	0.917 mL	Cyclohexanone	1 g/g
.MSV_EE_MISCSK_00014	11/07/24	05/07/24	Methanol, Lot EH471	10 mL	MSV_EE_Neat_00011	0.5452 g	Ethyl ether	999.897 ug/mL
..MSV_EE_Neat_00011	06/30/27		Chem Service, Lot 14084700		(Purchased Reagent)		Ethyl ether	54520 ug/mL
MSV_CCV_ETOH_00007	03/17/25	09/17/24	Methanol, Lot EH471	200 mL	MSV_VETOH_STK_00016	8.476 mL	Ethyl ether	1 g/g
.MSV_VETOH_STK_00016	03/17/25	09/17/24	Methanol, Lot EH471	10 mL	MSV_EtOH_00049	2.9494 g	Ethanol	12499.6 ug/mL
..MSV_EtOH_00049	04/30/28		Chem Service, Lot 15122500		(Purchased Reagent)		Ethanol	294940 ug/mL
MSV_CCV_GASES_00869	10/11/24		Restek, Lot A0212054		(Purchased Reagent)		Ethanol	1 g/g
							Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_CCV_GASES_00881	10/07/24		Restek, Lot A0212054		(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL
							Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_CCV_GASES_00885	10/18/24		Restek, Lot A0212054		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_CCV_LKB_00011	12/13/24	09/06/24	Methanol, Lot EH471	50 mL	MSV_V34D1B_SK_00013	0.726 mL	3,4-Dichloro-1-butene	999.992 ug/mL
.MSV_V34D1B_SK_00013	12/13/24	06/13/24	Methanol, Lot EH471	10 mL	MSV_Vc14d_STK_00011	1.233 mL	cis-1,4-Dichloro-2-butene	999.864 ug/mL
..MSV_3,4DC1Be_00003	08/22/27		TCI, Lot W3RMJ		MSV_3,4DC1Be_00003	0.6887 g	3,4-Dichloro-1-butene	68870 ug/mL
..MSV_Vc14d_STK_00011	12/13/24	06/13/24	Methanol, Lot EH471	10 mL	(Purchased Reagent)		3,4-Dichloro-1-butene	1 g/g
..MSV_c14dcb_Nt_00004	08/16/27		Aldrich, Lot SHBH4584V		MSV_c14dcb_Nt_00004	0.4268 g	cis-1,4-Dichloro-2-butene	40546 ug/mL
					(Purchased Reagent)		cis-1,4-Dichloro-2-butene	0.95 g/g
MSV_CCV_OH_Sp_00014	10/16/24	09/16/24	Methanol, Lot EH822	10 mL	MSV_V_Acr_Std_00007	2 mL	2-Ethylhexyl acrylate	1000.05 ug/mL
							n-Butyl acrylate	1000.07 ug/mL
							Ethyl acrylate	999.796 ug/mL
							Methyl acrylate	1000.05 ug/mL
.MSV_V_Acr_Std_00007	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_MStk_2E6A_00004	0.885 mL	2-Ethylhexyl acrylate	5000.25 ug/mL
					MSV_MStk_BACr_00005	0.908 mL	n-Butyl acrylate	5000.36 ug/mL
					MSV_MStk_EtAc_00004	0.998 mL	Ethyl acrylate	4998.98 ug/mL
					MSV_MStk_MACr_00004	0.859 mL	Methyl acrylate	5000.24 ug/mL
..MSV_MStk_2E6A_00004	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_2Eth6Acry_00001	0.565 g	2-Ethylhexyl acrylate	56500 ug/mL
...MSV_2Eth6Acry_00001	02/28/28		Sigma Aldrich, Lot MKCN1302		(Purchased Reagent)		2-Ethylhexyl acrylate	1 g/g
..MSV_MStk_BACr_00005	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_nButylAcr_00005	0.5507 g	n-Butyl acrylate	55070 ug/mL
...MSV_nButylAcr_00005	01/31/26		Chem Service, Lot 14061100		(Purchased Reagent)		n-Butyl acrylate	1 g/g
..MSV_MStk_EtAc_00004	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_EthylAcry_00003	0.5009 g	Ethyl acrylate	50090 ug/mL
...MSV_EthylAcry_00003	03/31/26		Chem Service, Lot 14239800		(Purchased Reagent)		Ethyl acrylate	1 g/g
..MSV_MStk_MACr_00004	01/09/25	07/09/24	Methanol, Lot EH471	10 mL	MSV_MethylAcr_00003	0.5821 g	Methyl acrylate	58210 ug/mL
...MSV_MethylAcr_00003	01/31/26		Chem Service, Lot 14104500		(Purchased Reagent)		Methyl acrylate	1 g/g
MSV_CCV_Penta_00054	10/25/24	09/25/24	Methanol, Lot EH822	1 mL	MSV_V_PentaCL_00071	200 uL	Pentachloroethane	1000 ug/mL
.MSV_V_PentaCL_00071	10/25/24		Restek, Lot A0197490		(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_CCV_V5ACE_00040	10/11/24	09/11/24	Methanol, Lot EH822	10 mL	MSV_AcetatesV_00059	1 mL	Acetonitrile	5000 ug/mL
							Ethyl acetate	1000 ug/mL
							Isopropyl acetate	1000 ug/mL
							n-Butyl acetate	1000 ug/mL
							n-Propyl acetate	1000 ug/mL
							Vinyl acetate	1000 ug/mL
.MSV_AcetatesV_00059	11/30/24		Restek, Lot A0197847		(Purchased Reagent)		Acetonitrile	50000 ug/mL
							Ethyl acetate	10000 ug/mL
							Isopropyl acetate	10000 ug/mL
							n-Butyl acetate	10000 ug/mL
							n-Propyl acetate	10000 ug/mL
							Vinyl acetate	10000 ug/mL
MSV_CCV_VOC#1_00203	10/30/24	09/30/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00200	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
					tert-Butylbenzene	1000 ug/mL		
					Tetrachloroethene	1000 ug/mL		
					Toluene	1000 ug/mL		
					trans-1,2-Dichloroethene	1000 ug/mL		
					trans-1,3-Dichloropropene	1000 ug/mL		
					Trichloroethene	1000 ug/mL		
					MSV_MegaMix#2_00193	1 mL	1,1,2-Trichloro-1,2,2-trifluor oethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,3-Diethylbenzene	1000 ug/mL
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-ethoxy-2-methyl butane	1000 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Nitropropane	5000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzyl chloride	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Hexane	1000 ug/mL
							Iodomethane	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl alcohol	5000 ug/mL
							Isopropyl ether	1000 ug/mL
							Methacrylonitrile	2500 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							n-Butanol	12500 ug/mL
							n-Heptane	1000 ug/mL
							o-diethylbenzene	1000 ug/mL
							p-Diethylbenzene	1000 ug/mL
							Pentane	1000 ug/mL
							Propionitrile	5000 ug/mL
							Tert-amyl methyl ether	1000 ug/mL
							Tert-butyl ethyl ether	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
.MSV_MegaMIX#1_00200	05/31/27		Restek, Lot A00211483		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
.MSV_MegaMix#2_00193	05/31/27		Restek, Lot A0212010		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,3-Diethylbenzene	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-ethoxy-2-methyl butane	5000 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							2-Methylnaphthalene	5000 ug/mL
							2-Nitropropane	25000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Acrylonitrile	12500 ug/mL
							Benzyl chloride	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Hexane	5000 ug/mL
							Iodomethane	5000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Isopropyl ether	5000 ug/mL
							Methacrylonitrile	12500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							n-Butanol	62500 ug/mL
							n-Heptane	5000 ug/mL
							o-diethylbenzene	5000 ug/mL
							p-Diethylbenzene	5000 ug/mL
							Pentane	5000 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
							Tetrahydrofuran	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_ccv_voc#1_00204	11/06/24	10/07/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00204	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00203	1 mL	Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_MegaMIX#1_00204	11/06/24		Restek, Lot A0211483		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							Benzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Methylene Chloride	5000 ug/mL
							Styrene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
.MSV_MegaMix#2_00203	11/06/24		Restek, Lot A0212010		(Purchased Reagent)		Carbon disulfide	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
MSV_ccv_voc#3_00200	10/30/24	09/30/24	Methanol, Lot EH471	5 mL	MSV_CCv_ACR_00023	0.5 mL	Acrolein	12526.6 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSV_V_Ketones_00200	1 mL	2-Butanone (MEK)	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone (MIBK)	2500 ug/mL
							Acetone	2500 ug/mL
.MSV_CCV_ACR_00023	11/25/24	09/26/24	Methanol, Lot EH471	10 mL	MSV_VACR_STK_00043	8.846 mL	Acrolein	125266 ug/mL
.MSV_VACR_STK_00043	11/25/24	09/26/24	Methanol, Lot EH471	10 mL	MSV_ACROLEIN_00035	1.5243 g	Acrolein	141607 ug/mL
...MSV_ACROLEIN_00035	01/31/25	Chem Service, Lot 15493200			(Purchased Reagent)		Acrolein	0.929 g/g
.MSV_V_Ketones_00200	04/30/27	Restek, Lot A0210935			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_CCV_VOC#3_00201	11/06/24	10/07/24	Methanol, Lot EH471	5 mL	MSV_V_Ketones_00199	1 mL	2-Butanone (MEK)	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone (MIBK)	2500 ug/mL
							Acetone	2500 ug/mL
.MSV_V_Ketones_00199	04/30/27	Restek, Lot A0210935			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_Cent_ISO_00005	11/03/24	06/03/24	Methanol, Lot EH822-US	50 mL	MSV_Cus826_IS_00781	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5 (IS)	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL
.MSV_Cus826_IS_00781	11/03/24	Restek, Lot A0197488			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_Cent_ISSS_00030	12/11/24	07/25/24	Methanol, Lot EH822-US	50 mL	MSV_Cus826_IS_00803	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5 (IS)	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL
.MSV_Cus826_IS_00803	01/25/25	Restek, Lot A0197488			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_Cent_ISSS_00030	12/11/24	07/25/24	Methanol, Lot EH822-US	50 mL	MSV_8260_SS_01242	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.MSV_8260_SS_01242	01/25/25	Restek, Lot A0209669			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MSV_Cent_ISSS_00031	03/09/25	09/09/24	Methanol, Lot EH822-US	50 mL	MSV_8260_SS_01287	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
					MSV_Cus826_IS_00797	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5 (IS)	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL
.MSV_8260_SS_01287	04/30/29		Restek, Lot A0209669		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.MSV_Cus826_IS_00797	04/30/26		Restek, Lot A0197488		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_LCS_Gases_00218	10/07/24	09/30/24	Methanol, Lot EH471	25 mL	MSV_QC_2K_GAS_00240	0.5 mL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00240	10/07/24		Restek, Lot A0184924		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LCS_Gases_00219	10/14/24	10/07/24	Methanol, Lot EH471	25 mL	MSV_QC_2K_GAS_00236	0.5 mL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00236	10/14/24		Restek, Lot A0184924		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LCS_VOC#1_00187	10/30/24	09/30/24	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00228	1 mL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							Benzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Styrene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
					Trichloroethene	40 ug/mL		
					MSV_M_MIX2SEC_00226	1 mL	Carbon disulfide	40 ug/mL
					MSV_Q_Ketones_00223	1 mL	Methyl tert-butyl ether	40 ug/mL
							2-Butanone (MEK)	500 ug/mL
2-Hexanone	500 ug/mL							
4-Methyl-2-pentanone (MIBK)	500 ug/mL							
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00228	05/31/27	Restek, Lot A0211284			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
.MSV M MIX2SEC 00226	05/31/27	Restek, Lot A0212017			(Purchased Reagent)		Carbon disulfide	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00223	04/30/27		Restek, Lot A0209876		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LCS_VOC#1_00188	11/06/24	10/07/24	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00230	1 mL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							Benzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Styrene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00227	1 mL	Carbon disulfide	40 ug/mL
					MSV_Q_Ketones_00224	1 mL	Methyl tert-butyl ether	40 ug/mL
							2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
.MSV_M_MIX1SEC_00230	05/31/27		Restek, Lot A0211284		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
.MSV_M_MIX2SEC_00227	05/31/27		Restek, Lot A0212017		(Purchased Reagent)		Trichloroethene	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00224	04/30/27		Restek, Lot A0209876		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_V_BFB_00017							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							divinyl benzene	
							Tentatively Identified Compound	
							Total BTEX	
							Total Diethylbenzene	
							Xylenes, Total	
.MSV_VBFB_STK_00012	12/02/24	06/02/24	Methanol, Lot EH471	10 mL	MSV_VBFB_STK_00012	0.09 mL	BFB	50.112 ug/mL
..MSV_4BFB_NEAT_00011	05/31/25		Chem Service, Lot 15267000		MSV_4BFB_NEAT_00011	1.392 g	BFB	139200 ug/mL
					(Purchased Reagent)		BFB	1 g/g
MSV_V_SMFreon_00050	10/27/24		Restek, Lot A0184508		(Purchased Reagent)		2-Chloro-1,1,1-Trifluoroethane	2000 ug/mL
							Chlorodifluoromethane	2000 ug/mL
							Chlorotrifluoroethene	2000 ug/mL

Reagent

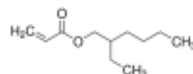
MSV_2Eth6Acry_00001

Certificate of Analysis

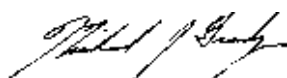
Product Name:

2-Ethylhexyl acrylate - 98%, contains ≥ 0.001 – $\leq 0.11\%$ monomethyl ether hydroquinone as stabilizer

Product Number: 290815
Batch Number: MKCN1302
Brand: ALDRICH
CAS Number: 103-11-7
MDL Number: MFCD00009495
Formula: C₁₁H₂₀O₂
Formula Weight: 184.28 g/mol
Quality Release Date: 01 SEP 2020



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Purity (GC)	$\geq 97.5\%$	99.6 %
Stabilizer	0.001 - 0.110 %	0.002 %
Monomethyl Ether Hydroquinone (MEHQ)		



Michael Grady, Manager
Quality Control
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



Reagent

MSV_3,4DC1Be_00003



Certificate of Analysis

08/23/2022(JST)

TOKYO CHEMICAL INDUSTRY CO.,LTD.
4-10-1 Nihonbashi-Honcho, Chuo-ku, Tokyo 103-0023 Japan

Chemical Name: 3,4-Dichloro-1-butene		
Product Number: D1072 CAS RN: 760-23-6	Lot: W3RMJ	

Tests	Results	Specifications
Appearance	Colorless clear liquid	Colorless to Almost colorless clear liquid
Purity(GC)	99.6 %	min. 98.0 %

TCI Lot numbers are 4-5 characters in length. Characters listed after the first 4-5 characters are control numbers for internal purpose only.
The contents of the specifications are subject to change without advance notice. The specification values displayed here are the most up to date values. There may be cases where the product labels display a different specification, however, the product quality still meets the latest specification.

Customer Service:

TCI AMERICA
Tel: +1-800-423-8616 / +1-503-283-1681
Fax: +1-888-520-1075 / +1-503-283-1987
E-mail: Sales-US@TCIchemicals.com

Takuya Nishioka
Quality Assurance Department Manager

Reagent

MSV_AcetatesV_00059



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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. : 577489 **Lot No.:** A0197847

Description : Custom Acetates Standard

Custom Acetates Standard 10,000-50,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : November 30, 2024 **Storage:** -20°C or colder

Ship: On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetonitrile	75-05-8	62904	99%	50,466.0 µg/mL	+/- 825.2159
2	Vinyl acetate	108-05-4	RD220630	99%	10,082.0 µg/mL	+/- 164.9082
3	Ethyl acetate	141-78-6	SHBP9289	99%	10,088.0 µg/mL	+/- 165.0064
4	Isopropyl acetate	108-21-4	BCCG7069	99%	10,090.0 µg/mL	+/- 165.0391
5	Propyl acetate	109-60-4	Q4GIJ	99%	10,100.0 µg/mL	+/- 165.2027
6	Butyl acetate	123-86-4	SHBP6314	99%	10,094.0 µg/mL	+/- 165.1045

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution

immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

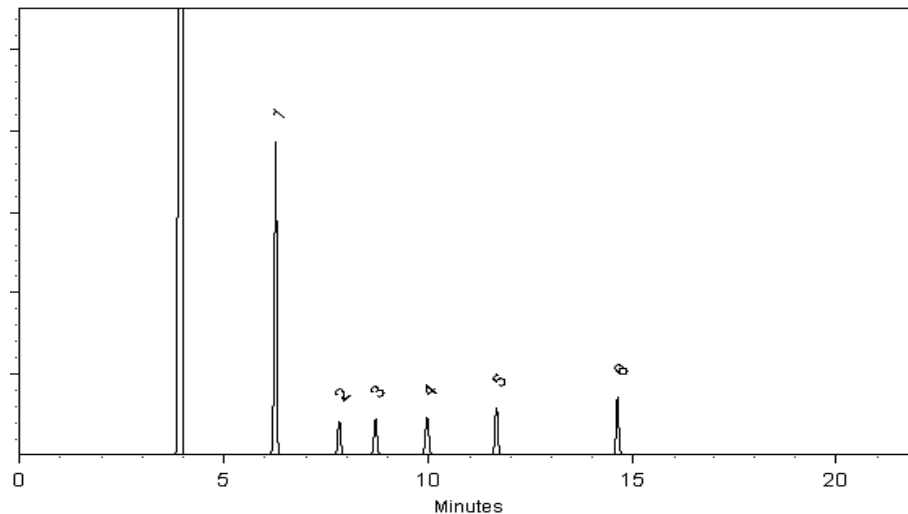
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



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.

Brittany Federinko - Operations Tech I

Date Mixed: 09-May-2023

Balance Serial # B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_c14dcb_Nt_00004

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Certificate of Analysis

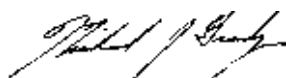
Product Name:

cis-1,4-Dichloro-2-butene - 95%

Product Number: 195707
Batch Number: SHBH4584V
Brand: ALDRICH
CAS Number: 1476-11-5
MDL Number: MFCD00062950
Formula: C₄H₆Cl₂
Formula Weight: 125.00 g/mol
Storage Temperature: Store at 2 - 8 °C
Quality Release Date: 30 AUG 2016



Test	Specification	Result
Appearance (Color)	Colorless to Light Yellow	Very Faint Yellow
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Purity (GC)	≥ 94.5 %	98.0 %



Michael Grady, Manager
Quality Control
Sheboygan Falls, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Reagent

MSV_Cus826_IS_00781



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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. : 558267 **Lot No.:** A0197488

Description : Custom 8260A IS Mix
Custom 8260A IS Mix 2,500-12,500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methyl-2-propanol-d10	53001-22-2	PR-29961	99%	12,587.5 µg/mL	+/- 156.5745
2	Fluorobenzene	462-06-6	BCBZ5549	99%	2,510.5 µg/mL	+/- 31.2436
3	Chlorobenzene-d5	3114-55-4	PR-29571	99%	2,507.0 µg/mL	+/- 31.2001
4	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,515.0 µg/mL	+/- 31.2996

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

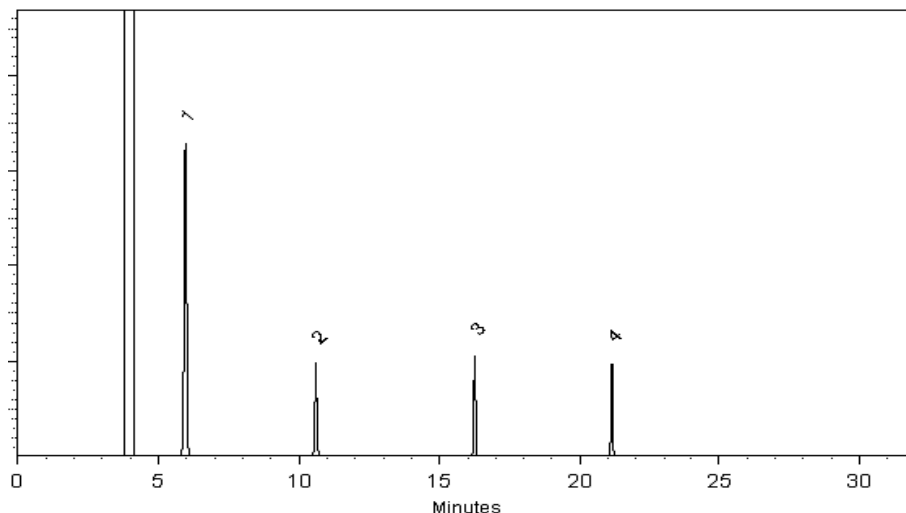
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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.


Daniel Wasson - Operations Tech I

Date Mixed: 26-Apr-2023

Balance Serial # 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 02-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_Cus826_IS_00797



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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. : 558267 **Lot No.:** A0197488

Description : Custom 8260A IS Mix
Custom 8260A IS Mix 2,500-12,500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methyl-2-propanol-d10	53001-22-2	PR-29961	99%	12,587.5 µg/mL	+/- 156.5745
2	Fluorobenzene	462-06-6	BCBZ5549	99%	2,510.5 µg/mL	+/- 31.2436
3	Chlorobenzene-d5	3114-55-4	PR-29571	99%	2,507.0 µg/mL	+/- 31.2001
4	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,515.0 µg/mL	+/- 31.2996

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

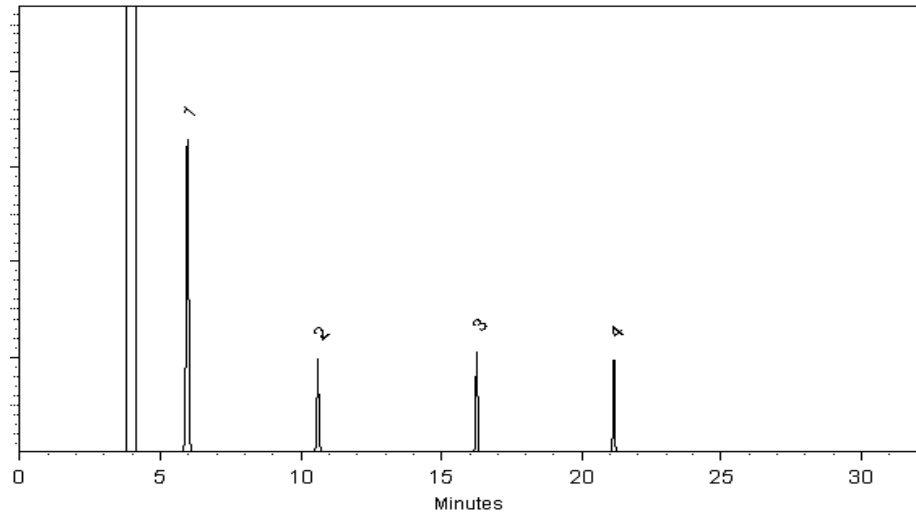
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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.


Daniel Wasson - Operations Tech I

Date Mixed: 26-Apr-2023

Balance Serial # 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 02-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_Cus826_IS_00803



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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. : 558267 **Lot No.:** A0197488

Description : Custom 8260A IS Mix
Custom 8260A IS Mix 2,500-12,500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methyl-2-propanol-d10	53001-22-2	PR-29961	99%	12,587.5 µg/mL	+/- 156.5745
2	Fluorobenzene	462-06-6	BCBZ5549	99%	2,510.5 µg/mL	+/- 31.2436
3	Chlorobenzene-d5	3114-55-4	PR-29571	99%	2,507.0 µg/mL	+/- 31.2001
4	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,515.0 µg/mL	+/- 31.2996

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

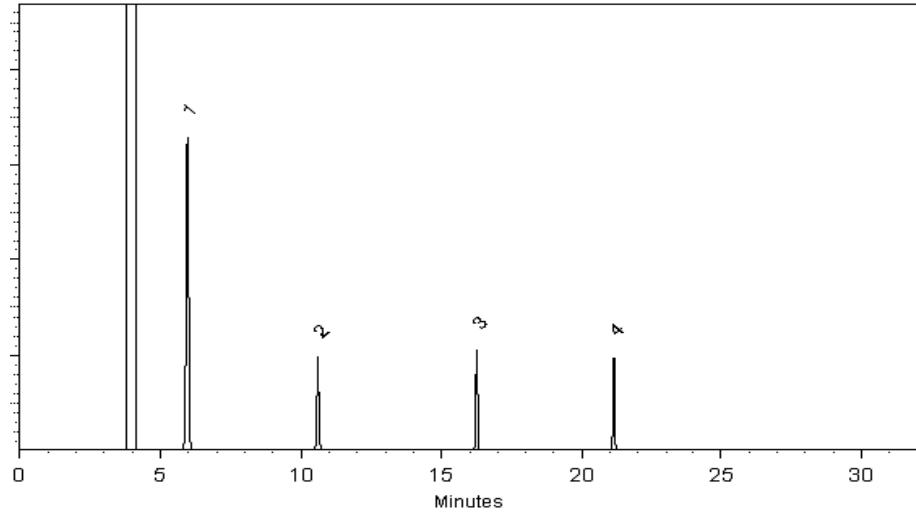
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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.


Daniel Wasson - Operations Tech I

Date Mixed: 26-Apr-2023

Balance Serial # 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 02-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- 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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_EthylAcry_00003

CERTIFICATE OF ANALYSIS

Ethyl acrylate

CATALOG NUMBER N-11884-1G
LOT NUMBER 14239800
DATE CERTIFIED 03/24/23
EXPIRATION DATE 03/31/26
CAS NUMBER 140-88-5
MOLECULAR FORMULA C₅H₈O₂
MOLECULAR WEIGHT 100.12
STORAGE Store at room temperature (20 - 25 °C).
HANDLING See Safety Data Sheet
INTENDED USE For laboratory use only.

Analytical Test	Value
% PURITY (GC/FID)	98.5
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:



Kristin R Jones

Chem Service, Inc. is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



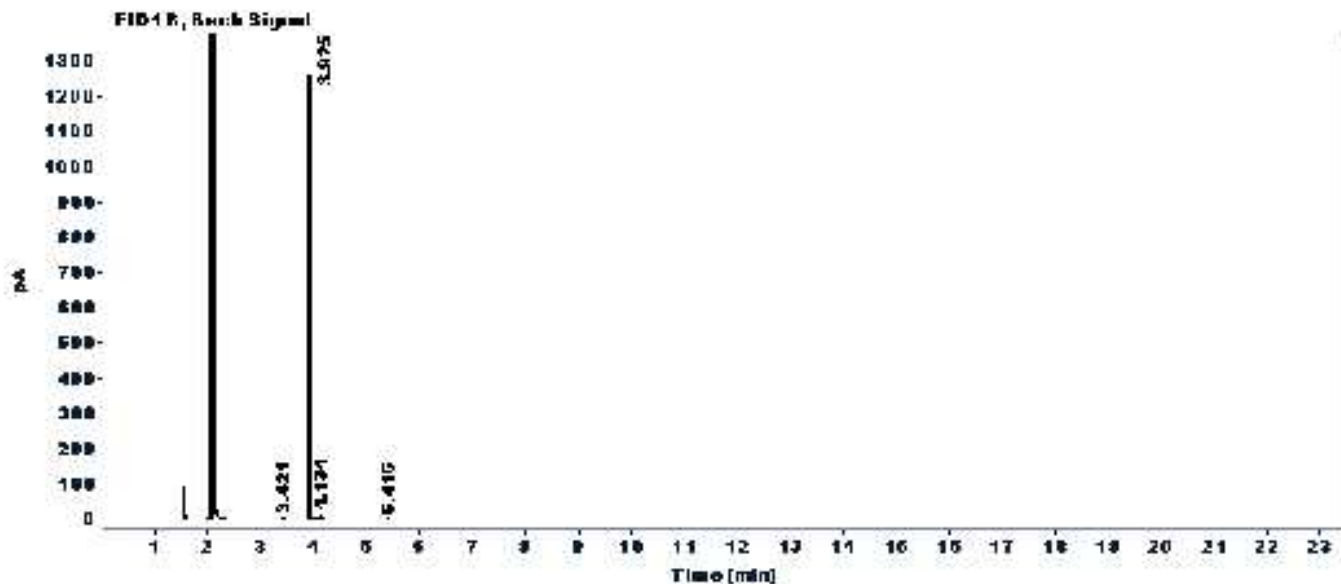
COA Form
Revision 3 (3/2015)

Print Date: 03/27/23

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2023 DATA\0323\ethyl acrylate.D
Sample name: Ethyl acrylate
Acq. method: FRANNY-BACK.M
Instrument: GC3 **Location:** 203
Injection date: 3/24/2023 8:59:20 AM **Injection Vol:** 1.000
Column name: RTX-5MS (30m x 0.25mm x 0.5µm) **# Of Injections:** 1



Signal: FID1 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
3.421	BB	0.0211	4.0827	3.1559	0.2618
3.925	BB	0.0194	1536.8994	1248.9259	98.5417
4.134	BB	0.0187	16.9484	14.3806	1.0867
5.416	BB	0.0197	1.7128	1.3592	0.1098
Sum			1559.6433		

Chem Service, Inc. is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



Reagent

MSV_MegaMIX#1_00200



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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. : 577486 **Lot No.:** A0211483

Description : Custom VOC MegaMix® #1 Standard

Custom VOC MegaMix® #1 Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : May 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,1-dichloroethene	75-35-4	SHBG8609V	99%	5,038.8 µg/mL	+/- 283.8004
2	Methylene chloride (dichloromethane)	75-09-2	231383	99%	5,013.9 µg/mL	+/- 282.3994
3	trans-1,2-Dichloroethene	156-60-5	MKCP9516	99%	5,020.8 µg/mL	+/- 282.7901
4	1,1-Dichloroethane	75-34-3	852900	99%	5,007.1 µg/mL	+/- 282.0157
5	2,2-Dichloropropane	594-20-7	RP231114CTH	99%	5,045.8 µg/mL	+/- 284.2162
6	cis-1,2-Dichloroethene	156-59-2	MKCP7830	99%	5,049.3 µg/mL	+/- 284.4180
7	chloroform	67-66-3	SHBN8469	99%	5,032.5 µg/mL	+/- 283.4484
8	Bromochloromethane	74-97-5	S231117RSR	99%	5,043.2 µg/mL	+/- 284.0707
9	1,1,1-trichloroethane	71-55-6	RD230728RSR	99%	5,043.7 µg/mL	+/- 284.0785
10	1,1-Dichloropropene	563-58-6	S240215ECS	99%	5,045.2 µg/mL	+/- 284.1833
11	carbon tetrachloride	56-23-5	SHBP4875	99%	5,042.8 µg/mL	+/- 284.0292
12	1,2-Dichloroethane	107-06-2	SHBQ5408	99%	5,007.8 µg/mL	+/- 282.0579
13	Benzene	71-43-2	MKCS3357	99%	5,011.2 µg/mL	+/- 282.2682
14	Trichloroethene	79-01-6	SHBQ6161	99%	5,019.9 µg/mL	+/- 282.7408
15	1,2-Dichloropropane	78-87-5	BCBR0882V	99%	5,041.1 µg/mL	+/- 283.9307
16	bromodichloromethane	75-27-4	MKCF8470	99%	5,014.1 µg/mL	+/- 282.4134

17	Dibromomethane	74-95-3	107151T06C	99%	5,019.6	µg/mL	+/-	282.7423
18	cis-1,3-Dichloropropene	10061-01-5	RP231025CTH	99%	5,036.1	µg/mL	+/-	283.6490
19	Toluene	108-88-3	MKCS9989	99%	5,027.9	µg/mL	+/-	283.2117
20	trans-1,3-Dichloropropene	10061-02-6	RP231025CTH-1	98%	5,002.6	µg/mL	+/-	281.7640
21	1,1,2-Trichloroethane	79-00-5	FGB01	99%	5,010.4	µg/mL	+/-	282.2022
22	1,3-Dichloropropane	142-28-9	BCCH5357	99%	5,043.1	µg/mL	+/-	284.0660
23	Tetrachloroethene	127-18-4	SHBQ0051	99%	5,014.8	µg/mL	+/-	282.4522
24	dibromochloromethane	124-48-1	MKCT4871	99%	5,042.3	µg/mL	+/-	283.9976
25	1,2-Dibromoethane (EDB)	106-93-4	BCCH7113	99%	5,041.7	µg/mL	+/-	283.9862
26	Chlorobenzene	108-90-7	SHBN6640	99%	5,013.3	µg/mL	+/-	282.3642
27	1,1,1,2-Tetrachloroethane	630-20-6	TMWGK	99%	5,025.2	µg/mL	+/-	283.0568
28	Ethylbenzene	100-41-4	094632T20F	99%	5,042.0	µg/mL	+/-	284.0050
29	m-Xylene	108-38-3	SHBN6673	99%	5,042.2	µg/mL	+/-	284.0143
30	p-Xylene	106-42-3	SHBP5191	99%	5,038.1	µg/mL	+/-	283.7843
31	o-Xylene	95-47-6	50069309	99%	5,047.2	µg/mL	+/-	284.2960
32	Styrene	100-42-5	MKCQ3390	99%	5,038.9	µg/mL	+/-	283.8313
33	Isopropylbenzene (cumene)	98-82-8	Z20D022	99%	5,022.8	µg/mL	+/-	282.9253
34	bromoform	75-25-2	050494L04R	99%	5,036.9	µg/mL	+/-	283.6948
35	1,1,2,2-Tetrachloroethane	79-34-5	QQJ4I	99%	5,032.5	µg/mL	+/-	283.4484
36	1,2,3-Trichloropropane	96-18-4	Q91-34	98%	5,042.7	µg/mL	+/-	284.0428
37	n-Propylbenzene	103-65-1	095067T18C	99%	5,028.8	µg/mL	+/-	283.2586
38	Bromobenzene	108-86-1	MKCQ7174	99%	5,026.8	µg/mL	+/-	283.1460
39	1,3,5-Trimethylbenzene	108-67-8	BCCH6852	99%	5,023.1	µg/mL	+/-	282.9394
40	2-Chlorotoluene	95-49-8	235783M23T	99%	5,028.7	µg/mL	+/-	283.2539
41	4-Chlorotoluene	106-43-4	BCCG9286	99%	5,043.9	µg/mL	+/-	284.1129
42	tert-Butylbenzene	98-06-6	STBJ1937	99%	5,047.3	µg/mL	+/-	284.3054
43	1,2,4-Trimethylbenzene	95-63-6	MKCS3775	99%	5,046.3	µg/mL	+/-	284.2490
44	sec-Butylbenzene	135-98-8	MKCP2266	99%	5,044.3	µg/mL	+/-	284.1364
45	p-Isopropyltoluene (p-Cymene)	99-87-6	MKCS1827	99%	5,035.8	µg/mL	+/-	283.6576
46	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	5,034.6	µg/mL	+/-	283.5646
47	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	5,015.5	µg/mL	+/-	282.4909
48	n-Butylbenzene	104-51-8	09418JJ	99%	5,034.7	µg/mL	+/-	283.5919
49	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	5,012.9	µg/mL	+/-	282.3466
50	1,2-Dibromo-3-chloropropane	96-12-8	HBMVB	97%	5,029.4	µg/mL	+/-	283.2935
51	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	5,042.1	µg/mL	+/-	284.0096
52	Hexachlorobutadiene	87-68-3	X05J	99%	5,023.4	µg/mL	+/-	282.9582

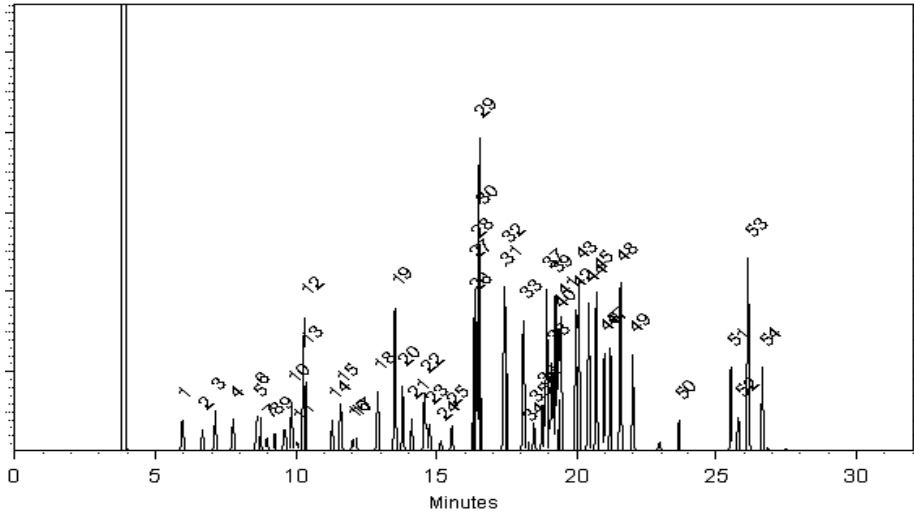
53	Naphthalene	91-20-3	STBL1057	99%	5,008.3	µg/mL	+/- 282.1039
54	1,2,3-Trichlorobenzene	87-61-6	MKBX7627V	99%	5,037.8	µg/mL	+/- 283.7656

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)
Carrier Gas:
hydrogen-constant pressure 11.0 psi.
Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)
Inj. Temp:
200°C
Det. Temp:
250°C
Det. Type:
FID
Split Vent:
40 ml/min
Inj. Vol
0.2µl



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.

Russ Bookhamer
Russ Bookhamer - Operations Technician I

Date Mixed: 15-May-2024 **Balance Serial #** B442140311

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

Date Passed: 17-May-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_MegaMix#2_00193



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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. : 577487 **Lot No.:** A0212010

Description : Custom VOC MegaMix® #2 Standard

Custom VOC MegaMix® #2 Standard 5000-62500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : May 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Pentane (C5)	109-66-0	STBK5006	99%	5,041.0 µg/mL	+/- 84.9562
2	2-Propanol (isopropanol)	67-63-0	SHBR1699	99%	25,199.0 µg/mL	+/- 412.0520
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	00009482	99%	5,039.2 µg/mL	+/- 84.9253
4	tert-Butanol (TBA)	75-65-0	SHBQ8002	99%	25,207.0 µg/mL	+/- 412.1828
5	Methyl acetate	79-20-9	SHBP3100	99%	5,037.0 µg/mL	+/- 84.8888
6	Iodomethane (methyl iodide)	74-88-4	RD240405RSR	99%	5,048.3 µg/mL	+/- 85.0798
7	Allyl chloride (3-chloropropene)	107-05-1	RD240221ECS	99%	5,046.7 µg/mL	+/- 85.0517
8	Carbon disulfide	75-15-0	Q30J743	99%	5,036.0 µg/mL	+/- 84.8719
9	Acrylonitrile	107-13-1	MKCN8129	99%	12,598.0 µg/mL	+/- 206.0015
10	Methyl-tert-butyl ether (MTBE)	1634-04-4	SHBQ4873	99%	5,040.7 µg/mL	+/- 84.9506
11	n-Hexane (C6)	110-54-3	102412P22T	99%	5,042.5 µg/mL	+/- 84.9815
12	Diisopropyl ether (DIPE)	108-20-3	STBK8028	99%	5,042.7 µg/mL	+/- 84.9843
13	Chloroprene (2-chloro-1,3-butadiene)	126-99-8	S240508RSR	99%	5,049.7 µg/mL	+/- 85.1023
14	Ethyl-tert-butyl ether (ETBE)	637-92-3	MKCT4522	98%	5,049.9 µg/mL	+/- 85.1069
15	Propionitrile	107-12-0	BCCH7430	99%	25,211.0 µg/mL	+/- 412.2482
16	Methacrylonitrile	126-98-7	1012014	99%	12,613.0 µg/mL	+/- 206.2467

17	Isobutanol (2-Methyl-1-propanol)	78-83-1	SHBR1206	99%	63,123.0	µg/mL	+/- 1,032.1821
18	Tetrahydrofuran	109-99-9	SHBQ8516	99%	25,247.0	µg/mL	+/- 412.8369
19	Cyclohexane	110-82-7	MKCS9749	99%	5,046.2	µg/mL	+/- 85.0433
20	1-Butanol	71-36-3	101601K21K	99%	63,110.0	µg/mL	+/- 1,031.9695
21	tert-Amyl methyl ether (TAME)	994-05-8	HMBJ0825	99%	5,038.5	µg/mL	+/- 84.9141
22	n-Heptane (C7)	142-82-5	044743T03G	99%	5,049.2	µg/mL	+/- 85.0938
23	tert-Amyl ethyl ether (TAEE)	919-94-8	IKVYB	97%	5,038.8	µg/mL	+/- 84.9196
24	Methylcyclohexane	108-87-2	SHBN1699	99%	5,044.8	µg/mL	+/- 85.0208
25	Methyl methacrylate	80-62-6	MKCQ2756	99%	5,048.0	µg/mL	+/- 85.0742
26	1,4-Dioxane	123-91-1	SHBQ2407	99%	63,103.0	µg/mL	+/- 1,031.8550
27	2-Nitropropane	79-46-9	BCCB9352	97%	25,238.4	µg/mL	+/- 412.6967
28	Ethyl methacrylate	97-63-2	MKCN6206	97%	5,046.9	µg/mL	+/- 85.0558
29	1-Chlorohexane	544-10-5	BCBS3368V	99%	5,044.5	µg/mL	+/- 85.0152
30	trans-1,4-dichloro-2-butene	110-57-6	RP240130CTH	98%	12,602.8	µg/mL	+/- 206.0799
31	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	5,043.7	µg/mL	+/- 85.0012
32	1,3-Diethylbenzene	141-93-5	BCBZ6270	99%	5,048.3	µg/mL	+/- 85.0798
33	Benzyl chloride	100-44-7	MKCM5986	99%	5,039.8	µg/mL	+/- 84.9365
34	1,4-Diethylbenzene	105-05-5	1135.72-1	99%	5,048.2	µg/mL	+/- 85.0770
35	1,2-Diethylbenzene	135-01-3	BCCG9282	99%	5,049.3	µg/mL	+/- 85.0967
36	1,3,5-Trichlorobenzene	108-70-3	11319AS	99%	5,046.3	µg/mL	+/- 85.0461
37	2-Methylnaphthalene	91-57-6	STBL3028	99%	5,045.0	µg/mL	+/- 85.0236

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant pressure 30 psi

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

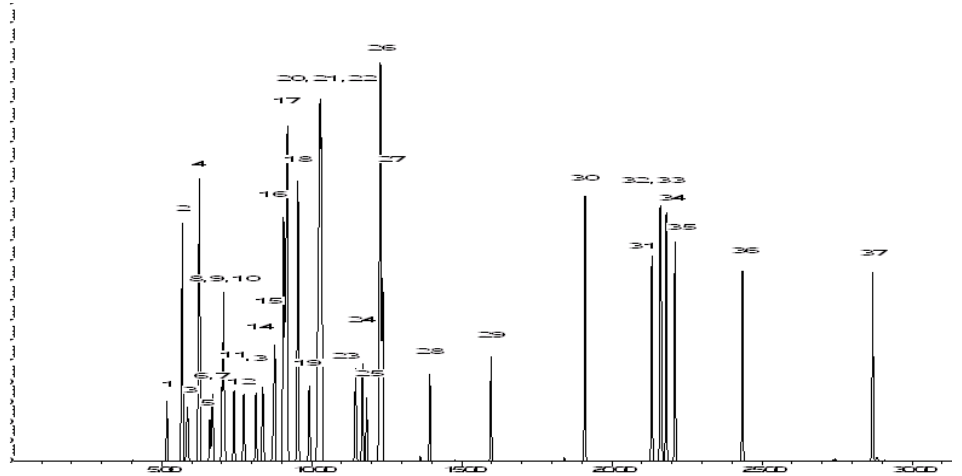
MSD

Split Vent:

25.0 ml/min.

Inj. Vol

1µl



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.

Brittany Federinko - Operations Tech I

Date Mixed: 24-May-2024

Balance Serial # B251644995

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 30-May-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_MethylAcr_00003

CERTIFICATE OF ANALYSIS

Methyl acrylate

CATALOG NUMBER	N-12413-1G
LOT NUMBER	14104500
DATE CERTIFIED	01/06/22
EXPIRATION DATE	01/31/26
CAS NUMBER	96-33-3
MOLECULAR FORMULA	C ₄ H ₆ O ₂
MOLECULAR WEIGHT	86.10
STORAGE	Store at room temperature (20 - 25 °C).
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

Analytical Test	Value
% PURITY (GC/FID)	99.5
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:



Kristin R Jones

Chem Service, Inc. is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



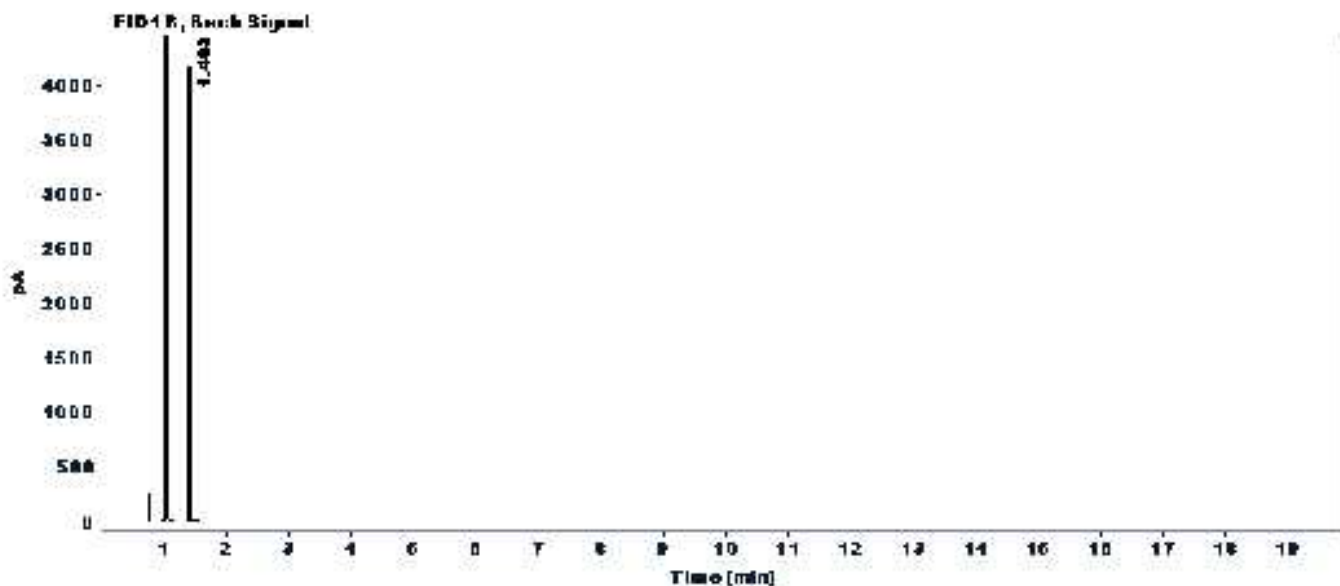
COA Form
Revision 3 (3/2015)

Print Date: 02/08/23

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2022 DATA\0122\methyl acrylate.D
Sample name: Methyl acrylate
Acq. method: FRANNY-BACK.M
Instrument: GC3 **Location:** 201
Injection date: 1/6/2022 9:14:16 AM **Injection Vol:** 1.000
Column name: RTX-5MS (30m x 0.25mm x 0.5µm) **# Of Injections:** 1



Signal: FID1 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
1.403	BB S	0.0102	2527.1797	4118.3921	100.0000
Sum			2527.1797		

Chem Service, Inc. is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



Reagent

MSV_nButylAcr_00005

CERTIFICATE OF ANALYSIS

n-Butyl acrylate

CATALOG NUMBER	N-12513-1G
LOT NUMBER	14061100
DATE CERTIFIED	01/06/20
EXPIRATION DATE	01/31/26
CAS NUMBER	141-32-2
MOLECULAR FORMULA	C ₇ H ₁₂ O ₂
MOLECULAR WEIGHT	128.17
STORAGE	Store at room temperature (20 - 25 °C).
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

Analytical Test	Value
% PURITY (GC/FID)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:



Kristin R Jones

Chem Service, Inc. is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



COA Form
Revision 3 (3/2015)

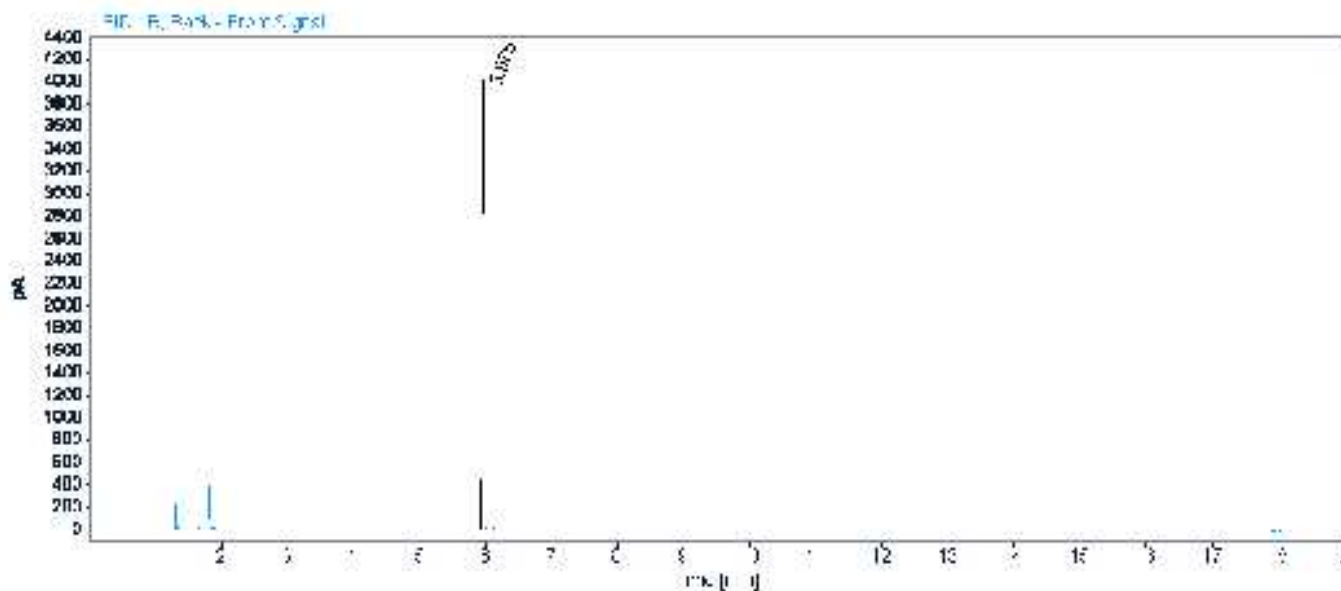
Print Date: 01/26/23

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2020 DATA\0120\butyl acrylate.D
Sample name: Butyl acrylate
Description:
Acq. method: S-10428M1.M
Instrument: GC3
Injection date: 1/6/2020 9:50:14 AM
Column name: HP-5ms Ultra Inert Diameter 250.000 Length 30.000 Particle Size 0.250

Location: 204
Injection Vol: 1.000
Of Injections: 1



Signal: FID1 B, Back - Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
5.975	BV	0.0298	8741.1309	3980.0339	100.0000
Sum			8741.1309		

Chem Service, Inc. is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



Reagent

MSV_Q_Ketones_00223



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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. : 569721.SEC **Lot No.:** A0209876

Description : 8260 List 1/ Std #2 Ketones (2015)
8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

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

Expiration Date : April 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1.SEC	U19I024	99%	12,580.0 µg/mL	+/- 434.7940
2	2-Butanone (MEK)	78-93-3.SEC	HDLUO	99%	12,611.6 µg/mL	+/- 435.8862
3	4-Methyl-2-pentanone (MIBK)	108-10-1.SEC	E29T040	99%	12,576.4 µg/mL	+/- 434.6696
4	2-Hexanone	591-78-6.SEC	NXXXXA	99%	12,574.8 µg/mL	+/- 434.6143

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

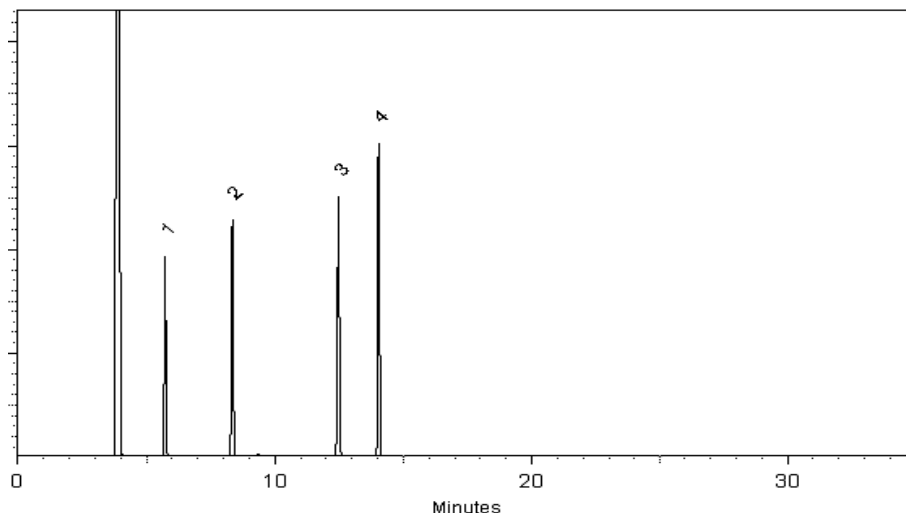
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



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.

Ethan Winiarski - Operations Tech I

Date Mixed: 05-Apr-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Apr-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_Q_Ketones_00224



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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. : 569721.SEC **Lot No.:** A0209876

Description : 8260 List 1/ Std #2 Ketones (2015)
8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

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

Expiration Date : April 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1.SEC	U19I024	99%	12,580.0 µg/mL	+/- 434.7940
2	2-Butanone (MEK)	78-93-3.SEC	HDLUO	99%	12,611.6 µg/mL	+/- 435.8862
3	4-Methyl-2-pentanone (MIBK)	108-10-1.SEC	E29T040	99%	12,576.4 µg/mL	+/- 434.6696
4	2-Hexanone	591-78-6.SEC	NXXXXA	99%	12,574.8 µg/mL	+/- 434.6143

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

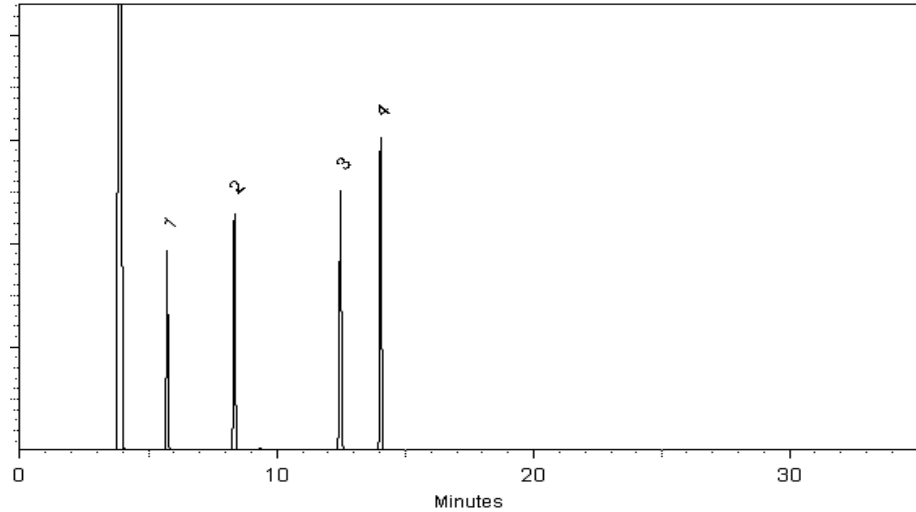
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



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.

Ethan Winiarski - Operations Tech I

Date Mixed: 05-Apr-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Apr-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_QC_2K_GAS_00236



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. : 577488.SEC **Lot No.:** A0184924

Description : Custom Gases.SEC Standard
Custom Gases.SEC Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : May 31, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12) CAS # 75-71-8.SEC (Lot 27545) Purity 99%	2,000.3 µg/mL	+/- 17.8749 µg/mL Gravimetric +/- 112.9722 µg/mL Unstressed +/- 115.5779 µg/mL Stressed
2	Chloromethane (methyl chloride) CAS # 74-87-3.SEC (Lot 18343) Purity 99%	2,002.3 µg/mL	+/- 19.9305 µg/mL Gravimetric +/- 113.4254 µg/mL Unstressed +/- 116.0260 µg/mL Stressed
3	Vinyl chloride CAS # 75-01-4.SEC (Lot MKBK6872V) Purity 99%	2,002.4 µg/mL	+/- 21.8874 µg/mL Gravimetric +/- 113.7916 µg/mL Unstressed +/- 116.3843 µg/mL Stressed
4	1,3-Butadiene CAS # 106-99-0.SEC (Lot 26996) Purity 99%	2,003.4 µg/mL	+/- 24.0683 µg/mL Gravimetric +/- 114.2862 µg/mL Unstressed +/- 116.8705 µg/mL Stressed
5	Bromomethane (methyl bromide) CAS # 74-83-9.SEC (Lot 00017022) Purity 99%	2,007.9 µg/mL	+/- 17.0860 µg/mL Gravimetric +/- 113.2712 µg/mL Unstressed +/- 115.8898 µg/mL Stressed
6	Chloroethane (ethyl chloride) CAS # 75-00-3.SEC (Lot 00004202) Purity 98%	2,002.2 µg/mL	+/- 20.1773 µg/mL Gravimetric +/- 113.4619 µg/mL Unstressed +/- 116.0614 µg/mL Stressed
7	Dichlorofluoromethane (CFC-21) CAS # 75-43-4 * (Lot 12841600) Purity 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL Gravimetric +/- 112.1494 µg/mL Unstressed +/- 114.7730 µg/mL Stressed

8	Trichlorofluoromethane (CFC-11)			2,000.0	µg/mL	+/-	11.7371	µg/mL	Gravimetric
	CAS #	75-69-4.SEC	(Lot 00010739)			+/-	112.1494		
	Purity	99%				+/-	114.7730		
									Unstressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)			2,000.5	µg/mL	+/-	25.4843	µg/mL	Gravimetric
	CAS #	354-23-4 *	(Lot Q9B-64)			+/-	114.4324		
	Purity	99%				+/-	117.0060		
									Unstressed

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

* Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Column:

60m x 0.25mm x 1.4µm
 Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
 @ 6°C/min.

Inj. Temp:

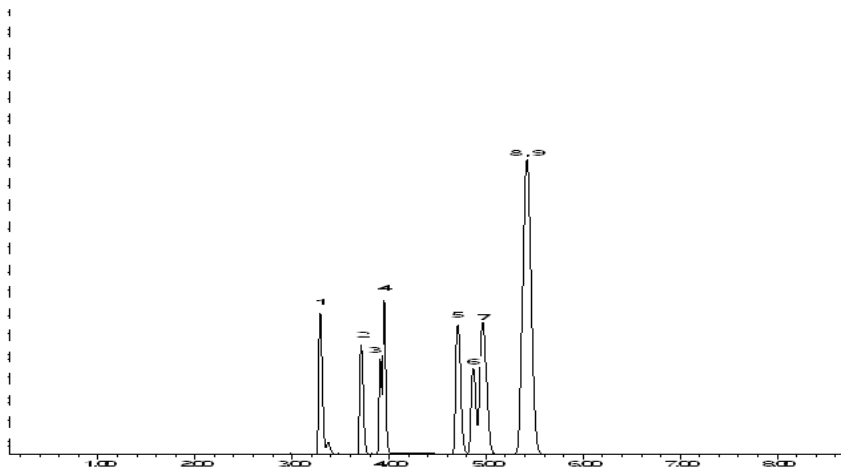
200°C

Det. Temp:

250°C

Det. Type:

MSD



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

Brandon Reish
 Brandon Reish - Mix Technician

Date Mixed: 05-May-2022

Balance: 1127510105

Marlina Cowan
 Marlina Cowan - Operations Tech I

Date Passed: 10-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

- k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
 - Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

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

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_QC_2K_GAS_00240



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. : 577488.SEC **Lot No.:** A0184924

Description : Custom Gases.SEC Standard
Custom Gases.SEC Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : May 31, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12) CAS # 75-71-8.SEC (Lot 27545) Purity 99%	2,000.3 µg/mL	+/- 17.8749 µg/mL Gravimetric +/- 112.9722 µg/mL Unstressed +/- 115.5779 µg/mL Stressed
2	Chloromethane (methyl chloride) CAS # 74-87-3.SEC (Lot 18343) Purity 99%	2,002.3 µg/mL	+/- 19.9305 µg/mL Gravimetric +/- 113.4254 µg/mL Unstressed +/- 116.0260 µg/mL Stressed
3	Vinyl chloride CAS # 75-01-4.SEC (Lot MKBK6872V) Purity 99%	2,002.4 µg/mL	+/- 21.8874 µg/mL Gravimetric +/- 113.7916 µg/mL Unstressed +/- 116.3843 µg/mL Stressed
4	1,3-Butadiene CAS # 106-99-0.SEC (Lot 26996) Purity 99%	2,003.4 µg/mL	+/- 24.0683 µg/mL Gravimetric +/- 114.2862 µg/mL Unstressed +/- 116.8705 µg/mL Stressed
5	Bromomethane (methyl bromide) CAS # 74-83-9.SEC (Lot 00017022) Purity 99%	2,007.9 µg/mL	+/- 17.0860 µg/mL Gravimetric +/- 113.2712 µg/mL Unstressed +/- 115.8898 µg/mL Stressed
6	Chloroethane (ethyl chloride) CAS # 75-00-3.SEC (Lot 00004202) Purity 98%	2,002.2 µg/mL	+/- 20.1773 µg/mL Gravimetric +/- 113.4619 µg/mL Unstressed +/- 116.0614 µg/mL Stressed
7	Dichlorofluoromethane (CFC-21) CAS # 75-43-4 * (Lot 12841600) Purity 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL Gravimetric +/- 112.1494 µg/mL Unstressed +/- 114.7730 µg/mL Stressed

8	Trichlorofluoromethane (CFC-11)			2,000.0	µg/mL	+/-	11.7371	µg/mL	Gravimetric	
	CAS #	75-69-4.SEC	(Lot 00010739)				+/-	112.1494	µg/mL	Unstressed
	Purity	99%					+/-	114.7730	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)			2,000.5	µg/mL	+/-	25.4843	µg/mL	Gravimetric	
	CAS #	354-23-4 *	(Lot Q9B-64)				+/-	114.4324	µg/mL	Unstressed
	Purity	99%					+/-	117.0060	µg/mL	Stressed
Solvent:	P&T Methanol									
	CAS #	67-56-1								
	Purity	99%								

* Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

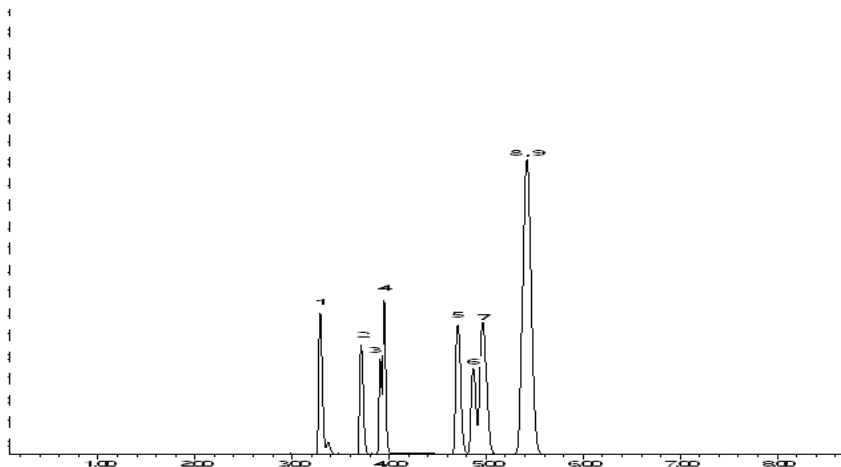
200°C

Det. Temp:

250°C

Det. Type:

MSD

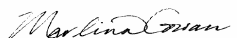


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Brandon Reish - Mix Technician

Date Mixed: 05-May-2022

Balance: 1127510105


Marlina Cowan - Operations Tech I

Date Passed: 10-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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- k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
 - Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

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

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_V_Ketones_00199



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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. : 569721 **Lot No.:** A0210935

Description : 8260 List 1/ Std #2 Ketones (2015)
8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

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

Expiration Date : April 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	12,591.3 µg/mL	+/- 435.1857
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	12,561.0 µg/mL	+/- 434.1373
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	12,580.0 µg/mL	+/- 434.7940
4	2-Hexanone	591-78-6	MKCV1997	99%	12,580.7 µg/mL	+/- 434.8170

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

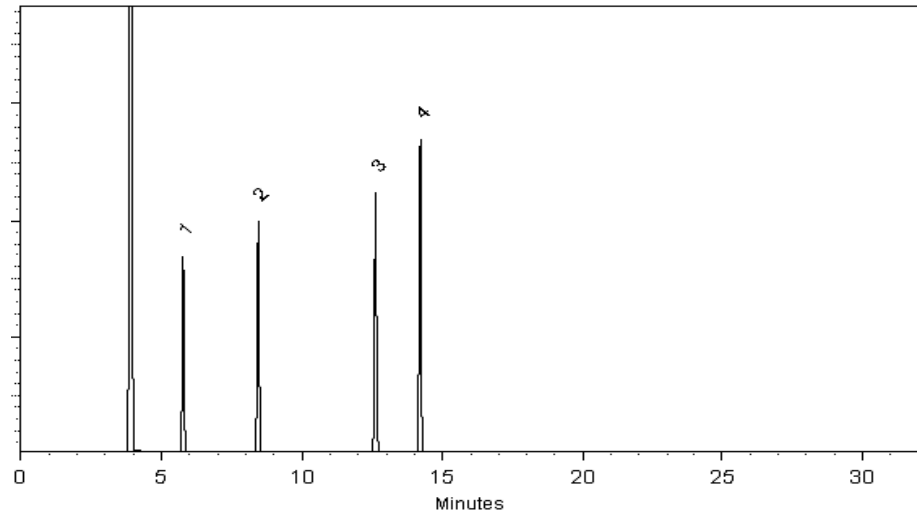
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



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.

Stacey Wanner - Operations Technician I

Date Mixed: 30-Apr-2024

Balance Serial # B707717271

Dillan Murphy - Operations Technician I

Date Passed: 02-May-2024

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

General Certified Reference Material Notes

Expiration Notes:

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Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_V_Ketones_00200



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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. : 569721 **Lot No.:** A0210935

Description : 8260 List 1/ Std #2 Ketones (2015)
8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

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

Expiration Date : April 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	12,591.3 µg/mL	+/- 435.1857
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	12,561.0 µg/mL	+/- 434.1373
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	12,580.0 µg/mL	+/- 434.7940
4	2-Hexanone	591-78-6	MKCV1997	99%	12,580.7 µg/mL	+/- 434.8170

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

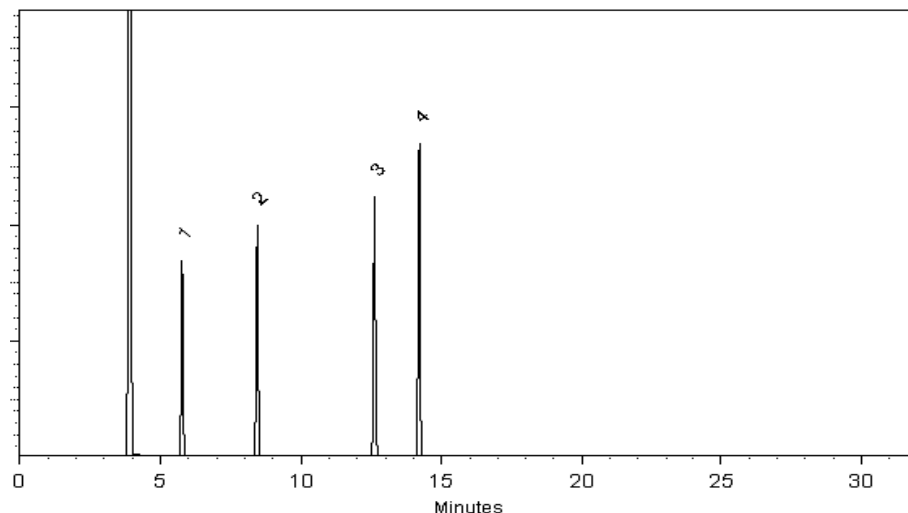
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



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.

Stacey Wanner - Operations Technician I

Date Mixed: 30-Apr-2024

Balance Serial # B707717271

Dillan Murphy - Operations Technician I

Date Passed: 02-May-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_V_PentaCL_00071



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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. : 577491 **Lot No.:** A0197490

Description : Custom Pentachloroethane Standard

Custom Pentachloroethane Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachloroethane	76-01-7	13550700	97%	5,011.0 µg/mL	+/- 281.5258

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

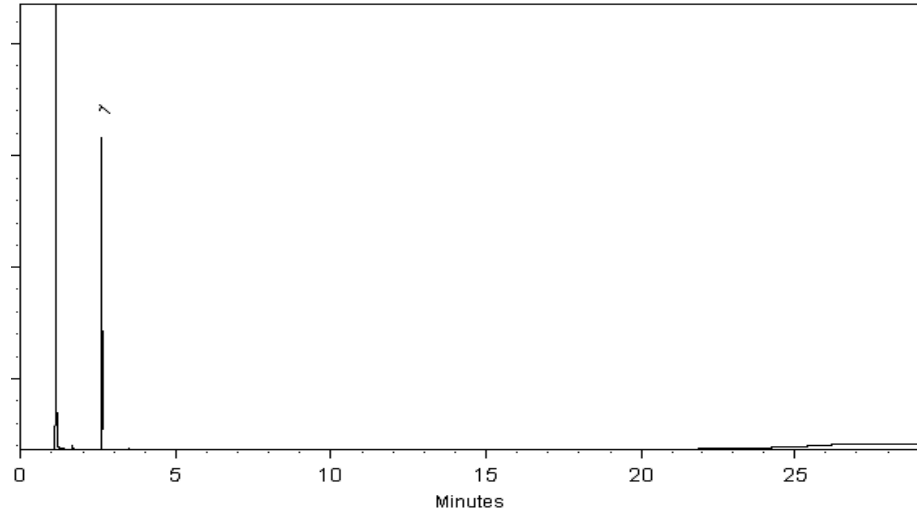
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



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.

Nick Yaw - Operations Tech I

Date Mixed: 26-Apr-2023

Balance Serial # B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 02-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_V_SMFreon_00050



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

www.restek.com

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. : 577490 **Lot No.:** A0184508

Description : Custom SM Freons Standard
Custom SM Freons Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Chlorotrifluoroethylene CAS # 79-38-9 (Lot 202600) Purity 99%	2,000.6 µg/mL	+/- 37.3988 µg/mL Gravimetric +/- 117.6695 µg/mL Unstressed +/- 120.1742 µg/mL Stressed
2	Chlorodifluoromethane (CFC-22) CAS # 75-45-6 (Lot Q162-44) Purity 99%	2,004.5 µg/mL	+/- 79.7514 µg/mL Gravimetric +/- 137.3187 µg/mL Unstressed +/- 139.4793 µg/mL Stressed
3	2-Chloro-1,1,1-trifluoroethane (HCFC-133a) CAS # 75-88-7 (Lot Q157-146) Purity 99%	2,000.3 µg/mL	+/- 53.9352 µg/mL Gravimetric +/- 123.9040 µg/mL Unstressed +/- 126.2843 µg/mL Stressed

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

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

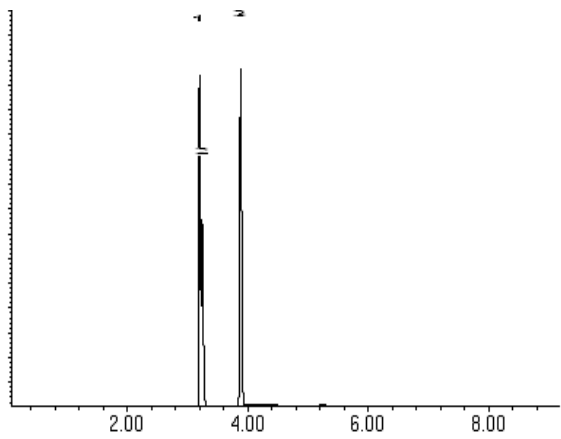
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Cathleen Soltis
Cathleen Soltis - Mix Technician

Date Mixed: 25-Apr-2022 Balance: B707717271

Christie Mills
Christie Mills - Operations Technician II

Date Passed: 02-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

- k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
 - Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

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

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Method 8260D

Volatile Organic Compounds (GC/MS)
by Method 8260D

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Matrix: Water

Level: Low

GC Column (1): R-624SilMS 3 ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
HD-MW-79-0/1-0	410-191672-1	109	104	96	95
HD-MW-142D-0/1-0	410-191672-2	107	100	98	96
HD-MW-112-0/1-0	410-191672-3	107	102	100	96
HD-MW-115-0/1-0	410-191672-4	105	102	101	97
HD-MW-142S-0/1-0	410-191672-5	107	101	99	95
HD-MW-143S-0/1-0	410-191672-6	107	102	100	96
HD-MW-148A-72.5/73-0	410-191672-7	108	103	100	96
HD-MW-148A-136/136.5-0	410-191672-8	108	105	100	95
HD-QC3-0/1-4	410-191672-9	107	105	99	97
HD-QC3-0/1-3	410-191672-10	107	103	98	95
HD-QC3-0/1-1	410-191672-11	107	101	100	96
HD-QC4-0/1-2	410-191672-12	106	99	100	98
HD-MW-186-0/1-0	410-191672-13	107	105	99	95
	MB 410-561893/6	106	98	97	95
	MB 410-562572/10	104	100	102	99
	LCS 410-561893/4	103	98	99	97
	LCS 410-562572/5	105	105	103	98
	LCSD 410-562572/6	103	97	103	99
HD-MW-79-0/1-0 MS	410-191672-1 MS	105	99	100	98
HD-MW-79-0/1-0 MSD	410-191672-1 MSD	104	102	98	97

QC LIMITS

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

80-120
80-120
80-120
80-120

Column to be used to flag recovery values

FORM II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: WC10X53.D

Lab ID: LCS 410-561893/4

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20.0	20.0	100	79-120	
1,1,1-Trichloroethane	20.0	21.9	110	73-120	
1,1,2,2-Tetrachloroethane	20.0	20.8	104	72-120	
1,1,2-Trichloroethane	20.0	19.8	99	80-120	
1,1-Dichloroethane	20.0	22.6	113	80-120	
1,1-Dichloroethene	20.0	24.3	121	80-131	
1,2-Dibromoethane (EDB)	20.0	20.3	102	77-120	
1,2-Dichloroethane	20.0	22.1	110	73-124	
1,2-Dichloropropane	20.0	21.4	107	80-120	
2-Butanone (MEK)	250	256	102	59-135	
2-Hexanone	250	264	105	56-135	
4-Methyl-2-pentanone (MIBK)	250	278	111	62-133	
Acetone	250	271	108	57-143	
Benzene	20.0	21.3	106	80-120	
Bromochloromethane	20.0	20.5	103	80-120	
Bromodichloromethane	20.0	21.3	106	71-120	
Bromoform	20.0	19.4	97	51-120	
Bromomethane	20.0	20.0	100	53-128	
Carbon disulfide	20.0	21.4	107	65-128	
Carbon tetrachloride	20.0	22.1	110	64-134	
Chlorobenzene	20.0	20.2	101	80-120	
Chloroethane	20.0	21.2	106	55-123	
Chloroform	20.0	22.0	110	80-120	
Chloromethane	20.0	20.8	104	39-134	
cis-1,2-Dichloroethene	20.0	21.5	107	80-125	
cis-1,3-Dichloropropene	20.0	18.5	93	75-120	
Dibromochloromethane	20.0	19.6	98	71-120	
Ethylbenzene	20.0	20.1	101	80-120	
Methyl tert-butyl ether	20.0	19.2	96	69-122	
Methylene Chloride	20.0	22.1	111	80-120	
Styrene	20.0	19.5	97	80-120	
Tetrachloroethene	20.0	20.7	104	80-120	
Toluene	20.0	20.1	100	80-120	
trans-1,2-Dichloroethene	20.0	22.0	110	80-126	
trans-1,3-Dichloropropene	20.0	18.4	92	67-120	
Trichloroethene	20.0	20.6	103	80-120	
Vinyl chloride	20.0	20.9	105	56-120	
Xylenes, Total	60.0	59.4	99	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: WC13X04.D

Lab ID: LCS 410-562572/5

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20.0	19.3	97	79-120	
1,1,1-Trichloroethane	20.0	18.6	93	73-120	
1,1,2,2-Tetrachloroethane	20.0	18.8	94	72-120	
1,1,2-Trichloroethane	20.0	18.3	92	80-120	
1,1-Dichloroethane	20.0	19.9	99	80-120	
1,1-Dichloroethene	20.0	20.1	100	80-131	
1,2-Dibromoethane (EDB)	20.0	18.0	90	77-120	
1,2-Dichloroethane	20.0	18.8	94	73-124	
1,2-Dichloropropane	20.0	18.4	92	80-120	
2-Butanone (MEK)	250	225	90	59-135	
2-Hexanone	250	244	98	56-135	
4-Methyl-2-pentanone (MIBK)	250	243	97	62-133	
Acetone	250	267	107	57-143	
Benzene	20.0	18.3	91	80-120	
Bromochloromethane	20.0	19.1	95	80-120	
Bromodichloromethane	20.0	18.7	94	71-120	
Bromoform	20.0	18.1	90	51-120	
Bromomethane	20.0	14.2	71	53-128	
Carbon disulfide	20.0	17.3	87	65-128	
Carbon tetrachloride	20.0	19.3	96	64-134	
Chlorobenzene	20.0	18.4	92	80-120	
Chloroethane	20.0	16.3	81	55-123	
Chloroform	20.0	19.3	97	80-120	
Chloromethane	20.0	13.8	69	39-134	
cis-1,2-Dichloroethene	20.0	19.0	95	80-125	
cis-1,3-Dichloropropene	20.0	15.5	78	75-120	
Dibromochloromethane	20.0	18.5	93	71-120	
Ethylbenzene	20.0	18.6	93	80-120	
Methyl tert-butyl ether	20.0	16.9	85	69-122	
Methylene Chloride	20.0	18.9	95	80-120	
Styrene	20.0	17.8	89	80-120	
Tetrachloroethene	20.0	18.9	95	80-120	
Toluene	20.0	18.1	91	80-120	
trans-1,2-Dichloroethene	20.0	19.8	99	80-126	
trans-1,3-Dichloropropene	20.0	16.7	84	67-120	
Trichloroethene	20.0	17.8	89	80-120	
Vinyl chloride	20.0	14.1	71	56-120	
Xylenes, Total	60.0	54.8	91	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: WC13X05.D

Lab ID: LCSD 410-562572/6

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	20.0	18.3	91	6	30	79-120	
1,1,1-Trichloroethane	20.0	18.4	92	1	30	73-120	
1,1,2,2-Tetrachloroethane	20.0	18.9	95	1	30	72-120	
1,1,2-Trichloroethane	20.0	18.3	91	0	30	80-120	
1,1-Dichloroethane	20.0	18.9	94	5	30	80-120	
1,1-Dichloroethene	20.0	19.6	98	2	30	80-131	
1,2-Dibromoethane (EDB)	20.0	18.2	91	1	30	77-120	
1,2-Dichloroethane	20.0	18.5	93	1	30	73-124	
1,2-Dichloropropane	20.0	17.9	89	3	30	80-120	
2-Butanone (MEK)	250	230	92	2	30	59-135	
2-Hexanone	250	249	99	2	30	56-135	
4-Methyl-2-pentanone (MIBK)	250	245	98	1	30	62-133	
Acetone	250	241	96	10	30	57-143	
Benzene	20.0	17.8	89	3	30	80-120	
Bromochloromethane	20.0	17.8	89	7	30	80-120	
Bromodichloromethane	20.0	18.2	91	3	30	71-120	
Bromoform	20.0	18.3	92	1	30	51-120	
Bromomethane	20.0	14.2	71	0	30	53-128	
Carbon disulfide	20.0	17.0	85	2	30	65-128	
Carbon tetrachloride	20.0	18.7	93	3	30	64-134	
Chlorobenzene	20.0	18.2	91	1	30	80-120	
Chloroethane	20.0	15.7	79	3	30	55-123	
Chloroform	20.0	18.3	92	5	30	80-120	
Chloromethane	20.0	13.6	68	1	30	39-134	
cis-1,2-Dichloroethene	20.0	18.1	91	4	30	80-125	
cis-1,3-Dichloropropene	20.0	16.0	80	3	30	75-120	
Dibromochloromethane	20.0	18.1	90	3	30	71-120	
Ethylbenzene	20.0	18.4	92	1	30	80-120	
Methyl tert-butyl ether	20.0	16.8	84	1	30	69-122	
Methylene Chloride	20.0	18.4	92	3	30	80-120	
Styrene	20.0	17.5	87	2	30	80-120	
Tetrachloroethene	20.0	18.8	94	1	30	80-120	
Toluene	20.0	18.2	91	0	30	80-120	
trans-1,2-Dichloroethene	20.0	18.6	93	6	30	80-126	
trans-1,3-Dichloropropene	20.0	17.2	86	3	30	67-120	
Trichloroethene	20.0	17.2	86	3	30	80-120	
Vinyl chloride	20.0	14.1	71	0	30	56-120	
Xylenes, Total	60.0	54.4	91	1	30	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: WC10X59.D

Lab ID: 410-191672-1 MS

Client ID: HD-MW-79-0/1-0 MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20.0	ND	21.4	107	75-120	
1,1,1-Trichloroethane	20.0	ND	24.5	122	68-120	FH
1,1,2,2-Tetrachloroethane	20.0	ND	19.9	100	71-122	
1,1,2-Trichloroethane	20.0	ND	20.4	102	80-120	
1,1-Dichloroethane	20.0	1.2	26.1	124	74-120	FH
1,1-Dichloroethene	20.0	ND	26.3	132	74-121	FH
1,2-Dibromoethane (EDB)	20.0	ND	20.3	102	80-120	
1,2-Dichloroethane	20.0	ND	22.8	114	69-120	
1,2-Dichloropropane	20.0	ND	23.2	116	77-120	
2-Butanone (MEK)	250	ND	252	101	65-131	
2-Hexanone	250	ND	262	105	67-132	
4-Methyl-2-pentanone (MIBK)	250	ND	274	110	66-129	
Acetone	250	ND	264	106	58-141	
Benzene	20.0	ND	23.2	116	81-120	
Bromochloromethane	20.0	ND	22.2	111	76-126	
Bromodichloromethane	20.0	ND	22.0	110	73-120	
Bromoform	20.0	ND	19.3	96	64-125	
Bromomethane	20.0	ND	21.5	108	43-128	
Carbon disulfide	20.0	ND	23.3	116	75-132	
Carbon tetrachloride	20.0	ND	24.9	124	63-128	
Chlorobenzene	20.0	ND	21.9	109	80-120	
Chloroethane	20.0	ND	22.7	113	60-121	
Chloroform	20.0	ND	23.8	119	74-120	
Chloromethane	20.0	ND	21.9	110	49-126	
cis-1,2-Dichloroethene	20.0	0.65 J	23.9	116	81-121	
cis-1,3-Dichloropropene	20.0	ND	18.5	93	71-120	
Dibromochloromethane	20.0	ND	20.3	102	74-120	
Ethylbenzene	20.0	ND	22.1	111	78-120	
Methyl tert-butyl ether	20.0	ND	19.0	95	75-120	
Methylene Chloride	20.0	ND	22.9	114	77-120	
Styrene	20.0	ND	19.6	98	78-120	
Tetrachloroethene	20.0	ND	23.3	117	68-125	
Toluene	20.0	ND	21.9	110	79-120	
trans-1,2-Dichloroethene	20.0	ND	23.6	118	74-120	
trans-1,3-Dichloropropene	20.0	ND	18.4	92	72-120	
Trichloroethene	20.0	0.32 J	21.8	108	76-120	
Vinyl chloride	20.0	ND	22.9	115	52-120	
Xylenes, Total	60.0	ND	63.9	107	78-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: WC10X60.D

Lab ID: 410-191672-1 MSD

Client ID: HD-MW-79-0/1-0 MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	20.0	19.5	97	9	30	75-120	
1,1,1-Trichloroethane	20.0	23.0	115	6	30	68-120	
1,1,2,2-Tetrachloroethane	20.0	18.7	94	6	30	71-122	
1,1,2-Trichloroethane	20.0	18.1	91	12	30	80-120	
1,1-Dichloroethane	20.0	24.4	116	7	30	74-120	
1,1-Dichloroethene	20.0	25.1	126	5	30	74-121	FH
1,2-Dibromoethane (EDB)	20.0	18.6	93	9	30	80-120	
1,2-Dichloroethane	20.0	20.9	105	9	30	69-120	
1,2-Dichloropropane	20.0	21.3	107	8	30	77-120	
2-Butanone (MEK)	250	240	96	5	30	65-131	
2-Hexanone	250	243	97	7	30	67-132	
4-Methyl-2-pentanone (MIBK)	250	256	102	7	30	66-129	
Acetone	250	235	94	12	30	58-141	
Benzene	20.0	21.6	108	7	30	81-120	
Bromochloromethane	20.0	20.1	101	10	30	76-126	
Bromodichloromethane	20.0	20.7	103	6	30	73-120	
Bromoform	20.0	17.9	89	8	30	64-125	
Bromomethane	20.0	19.5	98	10	30	43-128	
Carbon disulfide	20.0	22.2	111	5	30	75-132	
Carbon tetrachloride	20.0	23.0	115	8	30	63-128	
Chlorobenzene	20.0	19.8	99	10	30	80-120	
Chloroethane	20.0	21.6	108	5	30	60-121	
Chloroform	20.0	22.3	112	7	30	74-120	
Chloromethane	20.0	20.8	104	5	30	49-126	
cis-1,2-Dichloroethene	20.0	21.6	105	10	30	81-121	
cis-1,3-Dichloropropene	20.0	17.4	87	6	30	71-120	
Dibromochloromethane	20.0	18.7	93	9	30	74-120	
Ethylbenzene	20.0	20.4	102	8	30	78-120	
Methyl tert-butyl ether	20.0	17.9	90	6	30	75-120	
Methylene Chloride	20.0	21.7	108	5	30	77-120	
Styrene	20.0	18.4	92	6	30	78-120	
Tetrachloroethene	20.0	22.2	111	5	30	68-125	
Toluene	20.0	20.4	102	7	30	79-120	
trans-1,2-Dichloroethene	20.0	23.3	116	1	30	74-120	
trans-1,3-Dichloropropene	20.0	17.0	85	8	30	72-120	
Trichloroethene	20.0	21.3	105	3	30	76-120	
Vinyl chloride	20.0	21.4	107	7	30	52-120	
Xylenes, Total	60.0	59.7	100	7	30	78-120	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Lab File ID: WC10X55.D

Lab Sample ID: MB 410-561893/6

Matrix: Water

Heated Purge: (Y/N) N

Instrument ID: 9137

Date Analyzed: 10/10/2024 23:31

GC Column: R-624SilMS 30m ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-561893/4	WC10X53.D	10/10/2024 22:47
HD-QC3-0/1-4	410-191672-9	WC10X56.D	10/10/2024 23:52
HD-QC3-0/1-3	410-191672-10	WC10X57.D	10/11/2024 00:14
HD-MW-79-0/1-0	410-191672-1	WC10X58.D	10/11/2024 00:36
HD-MW-79-0/1-0 MS MS	410-191672-1 MS	WC10X59.D	10/11/2024 00:57
HD-MW-79-0/1-0 MSD MSD	410-191672-1 MSD	WC10X60.D	10/11/2024 01:19
HD-MW-142D-0/1-0	410-191672-2	WC10X61.D	10/11/2024 01:41

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Lab File ID: WC13X09.D

Lab Sample ID: MB 410-562572/10

Matrix: Water

Heated Purge: (Y/N) N

Instrument ID: 9137

Date Analyzed: 10/13/2024 22:31

GC Column: R-624SilMS 30m ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-562572/5	WC13X04.D	10/13/2024 20:42
	LCSD 410-562572/6	WC13X05.D	10/13/2024 21:04
HD-QC4-0/1-2	410-191672-12	WC13X11.D	10/13/2024 23:15
HD-MW-112-0/1-0	410-191672-3	WC13X23.D	10/14/2024 03:36
HD-MW-115-0/1-0	410-191672-4	WC13X24.D	10/14/2024 03:58
HD-MW-142S-0/1-0	410-191672-5	WC13X25.D	10/14/2024 04:20
HD-MW-143S-0/1-0	410-191672-6	WC13X26.D	10/14/2024 04:42
HD-MW-148A-72.5/73-0	410-191672-7	WC13X27.D	10/14/2024 05:04
HD-MW-148A-136/136.5-0	410-191672-8	WC13X28.D	10/14/2024 05:26
HD-QC3-0/1-1	410-191672-11	WC13X29.D	10/14/2024 05:47
HD-MW-186-0/1-0	410-191672-13	WC13X30.D	10/14/2024 06:09

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Lab File ID: WS30T04.D

BFB Injection Date: 09/30/2024

Instrument ID: 9137

BFB Injection Time: 18:32

Analysis Batch No.: 557456

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.5
75	30.0 - 60.0 % of mass 95	44.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.6
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	79.1
175	5.0 - 9.0 % of mass 174	5.7 (7.2) 1
176	95.0 - 101.0 % of mass 174	77.2 (97.5) 1
177	5.0 - 9.0 % of mass 176	5.0 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-557456/3	WS30X02.D	09/30/2024	19:14
	IC 410-557456/4	WS30X03.D	09/30/2024	19:35
	IC 410-557456/5	WS30X04.D	09/30/2024	19:57
	IC 410-557456/6	WS30X05.D	09/30/2024	20:19
	IC 410-557456/7	WS30X06.D	09/30/2024	20:41
	IC 410-557456/8	WS30X07.D	09/30/2024	21:03
	IC 410-557456/12	WS30X11.D	09/30/2024	22:30
	IC 410-557456/13	WS30X12.D	09/30/2024	22:52
	IC 410-557456/14	WS30X13.D	09/30/2024	23:13
	IC 410-557456/15	WS30X14.D	09/30/2024	23:35
	ICIS 410-557456/16	WS30X15.D	09/30/2024	23:57
	IC 410-557456/17	WS30X16.D	10/01/2024	0:19
	IC 410-557456/18	WS30X17.D	10/01/2024	0:40
	ICV 410-557456/20	WS30X19.D	10/01/2024	1:24

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1
Environment Testing, LLC

SDG No.:

Lab File ID: WC10T51.D BFB Injection Date: 10/10/2024

Instrument ID: 9137 BFB Injection Time: 21:50

Analysis Batch No.: 561893

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.2
75	30.0 - 60.0 % of mass 95	46.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.9
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	89.4
175	5.0 - 9.0 % of mass 174	6.5 (7.3) 1
176	95.0 - 101.0 % of mass 174	85.5 (95.6) 1
177	5.0 - 9.0 % of mass 176	5.7 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-561893/3	WC10X52.D	10/10/2024	22:25
	LCS 410-561893/4	WC10X53.D	10/10/2024	22:47
	MB 410-561893/6	WC10X55.D	10/10/2024	23:31
HD-QC3-0/1-4	410-191672-9	WC10X56.D	10/10/2024	23:52
HD-QC3-0/1-3	410-191672-10	WC10X57.D	10/11/2024	0:14
HD-MW-79-0/1-0	410-191672-1	WC10X58.D	10/11/2024	0:36
HD-MW-79-0/1-0 MS MS	410-191672-1 MS	WC10X59.D	10/11/2024	0:57
HD-MW-79-0/1-0 MSD MSD	410-191672-1 MSD	WC10X60.D	10/11/2024	1:19
HD-MW-142D-0/1-0	410-191672-2	WC10X61.D	10/11/2024	1:41

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Lab File ID: WC13T01.D

BFB Injection Date: 10/13/2024

Instrument ID: 9137

BFB Injection Time: 19:21

Analysis Batch No.: 562572

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.9
75	30.0 - 60.0 % of mass 95	45.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.7
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	80.7
175	5.0 - 9.0 % of mass 174	6.2 (7.7) 1
176	95.0 - 101.0 % of mass 174	79.0 (97.9) 1
177	5.0 - 9.0 % of mass 176	5.5 (7.0) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-562572/3	WC13X02.D	10/13/2024	19:58
	LCS 410-562572/5	WC13X04.D	10/13/2024	20:42
	LCSD 410-562572/6	WC13X05.D	10/13/2024	21:04
	MB 410-562572/10	WC13X09.D	10/13/2024	22:31
HD-QC4-0/1-2	410-191672-12	WC13X11.D	10/13/2024	23:15
HD-MW-112-0/1-0	410-191672-3	WC13X23.D	10/14/2024	3:36
HD-MW-115-0/1-0	410-191672-4	WC13X24.D	10/14/2024	3:58
HD-MW-142S-0/1-0	410-191672-5	WC13X25.D	10/14/2024	4:20
HD-MW-143S-0/1-0	410-191672-6	WC13X26.D	10/14/2024	4:42
HD-MW-148A-72.5/73-0	410-191672-7	WC13X27.D	10/14/2024	5:04
HD-MW-148A-136/136.5-0	410-191672-8	WC13X28.D	10/14/2024	5:26
HD-QC3-0/1-1	410-191672-11	WC13X29.D	10/14/2024	5:47
HD-MW-186-0/1-0	410-191672-13	WC13X30.D	10/14/2024	6:09

FORM VIII

Job No.: 410-191672-1

Sample No.: ICIS 410-557456/16

Date Analyzed: 09/30/2024 23:57

Instrument ID: 9137

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): WS30X15.D

Heated Purge: (Y/N) N

Calibration ID: 66268

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		331685	4.42	1027456	7.89	784435	11.33
UPPER LIMIT		663370	4.92	2054912	8.39	1568870	11.83
LOWER LIMIT		165843	3.92	513728	7.39	392218	10.83
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-557456/20		354643	4.40	1034493	7.89	777662	11.33
CCVIS 410-561893/3		324021	4.41	1058108	7.89	806057	11.32
CCVIS 410-562572/3		374841	4.39	1267560	7.90	932517	11.33

TBAd10 = t-Butyl alcohol-d10 (IS)

FB = Fluorobenzene (IS)

CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

```
# Column used to flag values outside QC limits
```

FORM VIII

Job No.: 410-191672-1

Sample No.: ICIS 410-557456/16

Date Analyzed: 09/30/2024 23:57

Instrument ID: 9137

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): WS30X15.D

Heated Purge: (Y/N) N

Calibration ID: 66268

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		437516	13.19				
UPPER LIMIT		875032	13.69				
LOWER LIMIT		218758	12.69				
LAB SAMPLE ID		CLIENT SAMPLE ID					
ICV 410-557456/20		447689	13.20				
CCVIS 410-561893/3		462393	13.19				
CCVIS 410-562572/3		519983	13.19				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = $\pm$ 0.5 minutes of internal standard RT

```
# Column used to flag values outside QC limits
```


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

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1
 Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-561893/3 Date Analyzed: 10/10/2024 22:25

Instrument ID: 9137 GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): WC10X52.D Heated Purge: (Y/N) N

Calibration ID: 66268

	TBA _d 10		FB		CBZ _d 5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	324021	4.41	1058108	7.89	806057	11.32
UPPER LIMIT	648042	4.91	2116216	8.39	1612114	11.82
LOWER LIMIT	162011	3.91	529054	7.39	403029	10.82
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 410-561893/4		322031	4.41	1001552	7.88	787661 11.32
MB 410-561893/6		302098	4.38	954922	7.89	734060 11.32
410-191672-9	HD-QC3-0/1-4	285988	4.39	913087	7.89	700375 11.32
410-191672-10	HD-QC3-0/1-3	288711	4.40	895635	7.88	689485 11.32
410-191672-1	HD-MW-79-0/1-0	284822	4.39	891868	7.89	701457 11.32
410-191672-1 MS	HD-MW-79-0/1-0 MS	306999	4.38	952721	7.89	744437 11.32
410-191672-1 MSD	HD-MW-79-0/1-0 MSD	313968	4.40	961566	7.89	763044 11.32
410-191672-2	HD-MW-142D-0/1-0	284354	4.40	916193	7.88	705571 11.32

TBA_d10 = t-Butyl alcohol-d₁₀ (IS)
 FB = Fluorobenzene (IS)
 CBZ_d5 = Chlorobenzene-d₅ (IS)

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1
 Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-561893/3 Date Analyzed: 10/10/2024 22:25

Instrument ID: 9137 GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): WC10X52.D Heated Purge: (Y/N) N

Calibration ID: 66268

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		462393	13.19				
UPPER LIMIT		924786	13.69				
LOWER LIMIT		231197	12.69				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-561893/4		453340	13.19				
MB 410-561893/6		418656	13.19				
410-191672-9	HD-QC3-0/1-4	404297	13.19				
410-191672-10	HD-QC3-0/1-3	397662	13.19				
410-191672-1	HD-MW-79-0/1-0	402730	13.19				
410-191672-1 MS	HD-MW-79-0/1-0 MS	435735	13.19				
410-191672-1 MSD	HD-MW-79-0/1-0 MSD	431654	13.19				
410-191672-2	HD-MW-142D-0/1-0	408159	13.19				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1
Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-562572/3 Date Analyzed: 10/13/2024 19:58

Instrument ID: 9137 GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): WC13X02.D Heated Purge: (Y/N) N

Calibration ID: 66268

	TBAd10		FB		CBZd5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	374841	4.39	1267560	7.90	932517	11.33
UPPER LIMIT	749682	4.89	2535120	8.40	1865034	11.83
LOWER LIMIT	187421	3.89	633780	7.40	466259	10.83
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 410-562572/5		362420	4.43	1244886	7.90	908705 11.33
LCSD 410-562572/6		405175	4.38	1219060	7.89	904417 11.32
MB 410-562572/10		326128	4.39	1112846	7.89	818692 11.32
410-191672-12	HD-QC4-0/1-2	333779	4.41	1063944	7.89	798780 11.32
410-191672-3	HD-MW-112-0/1-0	298357	4.40	951405	7.89	714072 11.32
410-191672-4	HD-MW-115-0/1-0	298680	4.39	940225	7.89	694983 11.32
410-191672-5	HD-MW-142S-0/1-0	294717	4.39	950797	7.89	713539 11.32
410-191672-6	HD-MW-143S-0/1-0	290782	4.39	918438	7.89	682913 11.33
410-191672-7	HD-MW-148A-72.5/73-0	292574	4.41	948063	7.89	709630 11.32
410-191672-8	HD-MW-148A-136/136.5-0	282910	4.41	895827	7.89	675037 11.32
410-191672-11	HD-QC3-0/1-1	294923	4.39	946134	7.89	705070 11.32
410-191672-13	HD-MW-186-0/1-0	286335	4.40	917809	7.89	689508 11.32

TBAd10 = t-Butyl alcohol-d10 (IS)

FB = Fluorobenzene (IS)

CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1
 Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-562572/3 Date Analyzed: 10/13/2024 19:58

Instrument ID: 9137 GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): WC13X02.D Heated Purge: (Y/N) N

Calibration ID: 66268

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		519983	13.19				
UPPER LIMIT		1039966	13.69				
LOWER LIMIT		259992	12.69				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-562572/5		505460	13.19				
LCSD 410-562572/6		501355	13.19				
MB 410-562572/10		460921	13.19				
410-191672-12	HD-QC4-0/1-2	451629	13.19				
410-191672-3	HD-MW-112-0/1-0	406509	13.19				
410-191672-4	HD-MW-115-0/1-0	397926	13.19				
410-191672-5	HD-MW-142S-0/1-0	408585	13.19				
410-191672-6	HD-MW-143S-0/1-0	387566	13.19				
410-191672-7	HD-MW-148A-72.5/73-0	401622	13.19				
410-191672-8	HD-MW-148A-136/136.5-0	383583	13.19				
410-191672-11	HD-QC3-0/1-1	401432	13.19				
410-191672-13	HD-MW-186-0/1-0	392650	13.19				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-MW-79-0/1-0

Lab Sample ID: 410-191672-1

Matrix: Water

Lab File ID: WC10X58.D

Analysis Method: 8260D

Date Collected: 10/08/2024 12:00

Sample wt/vol: 5 (mL)

Date Analyzed: 10/11/2024 00:36

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 561893

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND	FH	1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	1.2	FH	1.0	0.30
75-35-4	1,1-Dichloroethene	ND	FH	1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND	^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	0.65	J	1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-MW-79-0/1-0 Lab Sample ID: 410-191672-1

Matrix: Water Lab File ID: WC10X58.D

Analysis Method: 8260D Date Collected: 10/08/2024 12:00

Sample wt/vol: 5 (mL) Date Analyzed: 10/11/2024 00:36

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 561893 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	0.32	J	1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X58.D
 Lims ID: 410-191672-A-1
 Client ID: HD-MW-79-0/1-0
 Sample Type: Client
 Inject. Date: 11-Oct-2024 00:36:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127401-009
 Operator ID: KEL87800 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 11-Oct-2024 14:26:24 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1645

First Level Reviewer: FQ4L

Date: 11-Oct-2024 14:27:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
A 1 C4-C10	1		(0.000-0.100)				ND	
A 2 C4-C12	1		(0.000-0.250)				ND	
T 3 divinyl benzene TIC	131	1.677	1.671	0.006	36	163	0.009138	
4 Chlorotrifluoroethene	116		1.969				ND	
6 Dichlorodifluoromethane	85		2.014				ND	
5 Chlorodifluoromethane	51		2.021				ND	
7 Chloromethane	50		2.213				ND	
8 Vinyl chloride	62		2.332				ND	
9 Butadiene	39		2.358				ND	7
10 2-Chloro-1,1,1-Trifluoroethane	118		2.428				ND	
T 31 Acetonitrile TIC	41	2.662	2.669	-0.007	8	292	0.0164	
11 Bromomethane	94		2.695				ND	
12 Chloroethane	64		2.781				ND	
13 Dichlorofluoromethane	67		3.047				ND	
14 Trichlorofluoromethane	101		3.108				ND	
15 Pentane	43		3.150				ND	7
17 Ethanol	45		3.208				ND	
16 Ethyl ether	59		3.349				ND	
18 1,2-Dichloro-1,1,2-trifluoroethane	67		3.455				ND	
19 Acrolein	56		3.545				ND	
21 1,1-Dichloroethene	96		3.699				ND	
22 1,1,2-Trichloro-1,2,2-trifluoroethane	101		3.715				ND	
20 Acetone	58		3.731				ND	
25 Iodomethane	142		3.901				ND	
23 Isopropyl alcohol	45		3.914				ND	
26 Carbon disulfide	76		4.020				ND	7
29 Acetonitrile	41		4.138				ND	
28 Methyl acetate	43		4.155				ND	7
T 167 Propanol TIC	59	1.754	4.167	-2.413	1	256	0.0144	
T 156 1-Chloro-1,1-difluoroethane TIC	65	4.280	4.178	0.102	1	371	0.0208	
27 3-Chloro-1-propene	41		4.183				ND	7
30 Methylene Chloride	84		4.389				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 32 t-Butyl alcohol-d10 (IS)	65	4.389	4.408	-0.019	55	284822	250.0	
33 2-Methyl-2-propanol	59		4.533				ND	
34 Acrylonitrile	53		4.739				ND	
36 Methyl tert-butyl ether	73		4.793				ND	
35 trans-1,2-Dichloroethene	96		4.796				ND	
37 Hexane	57		5.226				ND	
39 Vinyl acetate	43		5.464				ND	7
38 1,1-Dichloroethane	63	5.457	5.470	-0.013	90	9080	1.20	
40 Isopropyl ether	45		5.525				ND	
41 2-Chloro-1,3-butadiene	53		5.579				ND	
42 Tert-butyl ethyl ether	59		6.067				ND	
S 80 1,2-Dichloroethene, Total	100				0		0.6490	
44 2-Butanone (MEK)	43		6.279				ND	U
43 cis-1,2-Dichloroethene	96	6.292	6.301	-0.009	16	3297	0.6490	
46 Ethyl acetate	43		6.330				ND	7
45 2,2-Dichloropropane	77		6.330				ND	
47 Propionitrile	54		6.378				ND	
A 82 C6-C10	1	6.394	(2.952-9.836)		0	284026	NC	
48 Methyl acrylate	55		6.397				ND	
49 Methacrylonitrile	67		6.584				ND	
50 Chlorobromomethane	128		6.632				ND	
51 Tetrahydrofuran	71		6.648				ND	
52 Chloroform	83		6.786				ND	
\$ 54 Dibromofluoromethane (Surr)	113	6.994	6.998	-0.004	93	232607	54.3	
55 1,1,1-Trichloroethane	97		7.014				ND	
56 Cyclohexane	56		7.107				ND	
A 89 C5-C12	1	7.153	(2.686-11.621)		0	2693371	NC	
58 Carbon tetrachloride	117		7.216				ND	
57 1,1-Dichloropropene	75		7.229				ND	
A 92 C6-C12	1	7.286	(2.952-11.621)		0	2667194	NC	
59 Isobutyl alcohol	41		7.392				ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.447	7.457	-0.010	70	58186	52.1	
61 Benzene	78		7.489				ND	
95 t-Amyl alcohol	73		7.511				ND	
62 1,2-Dichloroethane	62		7.562				ND	
63 Isopropyl acetate	43		7.572				ND	7
T 100 Tetranitromethane TIC	46		7.653				ND	
64 Tert-amyl methyl ether	73		7.678				ND	
T 99 Vinyl Fluoride TIC	46	7.854	7.697	0.157	13	314	0.0176	
* 65 Fluorobenzene (IS)	96	7.887	7.890	-0.004	99	891868	50.0	
66 n-Heptane	43		7.903				ND	
67 n-Butanol	56		8.262				ND	
68 Trichloroethene	95	8.365	8.365	0.000	26	1623	0.3248	
69 Ethyl acrylate	55		8.480				ND	
70 Methylcyclohexane	83		8.673				ND	
72 2-ethoxy-2-methyl butane	87		8.702				ND	
71 1,2-Dichloropropane	63		8.708				ND	
74 Methyl methacrylate	69		8.785				ND	
75 1,4-Dioxane	88		8.795				ND	
73 Dibromomethane	93		8.820				ND	
76 n-Propyl acetate	61		8.862				ND	
77 Dichlorobromomethane	83		9.048				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
78 2-Nitropropane	41		9.324				ND	7
T 117 Propene oxide TIC	58	9.860	9.340	0.520	1	544	0.0305	
79 2-Chloroethyl vinyl ether	63		9.404				ND	
124 2,3,4-Trichlorobutene	109		9.417				ND	
T 159 Bromoethane TIC	108	9.886	9.491	0.395	1	50	0.002803	
81 cis-1,3-Dichloropropene	75		9.584				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.757				ND	
T 142 Diethoxymethane TIC	59	8.358	9.799	-1.441	1	53	0.002971	
T 130 Ethyl Acetate TIC	43		9.861				ND	
T 129 Propane TIC	43	9.882	9.861	0.021	11	2585	0.1449	
\$ 84 Toluene-d8 (Surr)	98	9.882	9.886	-0.004	93	892024	48.2	
T 144 Propionaldehyde TIC	58	9.921	9.915	0.006	1	55	0.003083	
T 136 Ethylene oxide TIC	43	9.905	9.918	-0.013	24	401	0.0225	
T 137 n-Butyl acrylate TIC	55	9.889	9.924	-0.035	17	1003	0.0562	
T 150 1,1,1-Trifluoro-2,2-dichloroethane TIC	83	9.898	9.927	-0.029	1	102	0.005718	
T 158 Chlorofluoromethane TIC	68	9.879	9.931	-0.052	21	4569	0.2561	
T 145 1,1-Dichloro-1-fluoroethane TIC	81	9.898	9.934	-0.036	1	54	0.003027	
T 135 Allyl Alcohol TIC	57	9.902	9.947	-0.045	5	121	0.006784	
85 Toluene	92		9.959				ND	
T 166 Chloroacetaldehyde TIC	50	9.918	9.988	-0.070	1	461	0.0258	
T 146 Freon 115 TIC	85	11.301	9.995	1.306	1	319	0.0179	
T 151 Nitrobenzene TIC	77	10.053	9.995	0.058	1	352	0.0197	
T 164 1,1,2-Trifluoroethane TIC	51	9.905	9.995	-0.090	18	99	0.005550	
T 160 1-Bromo-2-chloroethane TIC	63	9.879	9.998	-0.119	0	357	0.0200	
T 141 Vinyl acetate (TIC)	43	9.905	9.998	-0.093	7	401	0.0225	
T 138 Epichlorohydrin TIC	57		10.000				ND	
T 143 Fluoromethane TIC	34		10.000				ND	
T 139 Isooctane TIC	57		10.000				ND	
T 140 n-Nonane TIC	43	9.905	10.000	-0.095	13	401	0.0225	
T 147 Ethyl acrylate TIC	55		10.015				ND	
T 149 1-Chlorobutane TIC	56	9.924	10.028	-0.104	1	67	0.003756	
T 152 1,3-Dichlorobutene-2(total) TIC	89	11.314	10.046	1.268	11	2305	0.1292	
T 155 1,2-Dichlorofluoroethane TIC	81		10.047				ND	
T 157 4-Ethyltoluene TIC	105	12.312	10.050	2.262	6	70	0.003924	
S 162 1,3-Dichloropropene, Total	100		10.060				ND	7
T 165 2,3-Dichloro-1,3-butadiene TIC	51	9.905	10.063	-0.158	0	99	0.005550	
T 163 Dichloro-1,1,2,2-tetrafluoroethane TIC	85	11.301	10.063	1.238	1	319	0.0179	
T 154 Methyl Isothiocyanate TIC	73	11.307	10.139	1.168	1	330	0.0185	
86 trans-1,3-Dichloropropene	75		10.213				ND	
T 153 2,3,4-Trichlorobutene TIC	109	13.188	10.219	2.969	0	600	0.0336	
87 Ethyl methacrylate	69		10.271				ND	
T 168 tert-amyl alcohol TIC	59	11.304	10.287	1.017	12	2441	0.1368	
88 1,1,2-Trichloroethane	97		10.412				ND	
90 Tetrachloroethene	166		10.499				ND	
T 161 Hexachloroethane TIC	117	11.323	10.534	0.789	1	701570	39.3	
91 1,3-Dichloropropane	76		10.576				ND	
93 3,4-Dichloro-1-butene	75		10.614				ND	
94 2-Hexanone	43		10.627				ND	7
97 n-Butyl acetate	43		10.739				ND	
96 Chlorodibromomethane	129		10.784				ND	
98 Ethylene Dibromide	107		10.896				ND	
S 178 Xylenes, Total	106		11.245				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.323	0.000	84	701457	50.0	
103 1-Chlorohexane	91		11.330				ND	U
102 Chlorobenzene	112		11.349				ND	
104 1,1,1,2-Tetrachloroethane	131		11.432				ND	
105 Ethylbenzene	91		11.432				ND	7
106 m-Xylene & p-Xylene	106		11.548				ND	
107 n-Butyl acrylate	55		11.821				ND	
108 o-Xylene	106		11.875				ND	
109 Styrene	104		11.888				ND	
110 Bromoform	173		12.048				ND	
111 Isopropylbenzene	105		12.170				ND	
112 cis-1,4-Dichloro-2-butene	88		12.222				ND	U
113 Cyclohexanone	55		12.257				ND	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.315	12.312	0.003	91	331388	47.6	
116 1,1,2,2-Tetrachloroethane	83		12.418				ND	
115 Bromobenzene	156		12.434				ND	7
119 trans-1,4-Dichloro-2-butene	53		12.443				ND	
118 1,2,3-Trichloropropane	110		12.466				ND	
120 N-Propylbenzene	91		12.501				ND	
121 2-Chlorotoluene	126		12.578				ND	
122 1,3,5-Trimethylbenzene	105		12.633				ND	
123 4-Chlorotoluene	126		12.668				ND	
125 tert-Butylbenzene	134		12.876				ND	
126 Pentachloroethane	167		12.915				ND	
127 1,2,4-Trimethylbenzene	105		12.918				ND	
128 sec-Butylbenzene	105		13.040				ND	
131 1,3-Dichlorobenzene	146		13.136				ND	7
132 4-Isopropyltoluene	119		13.146				ND	
T 169 1,1,1-Trichloro-2,2,2-trifluoroethane	151	13.194	13.168	0.026	8	48982	2.75	
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.191	0.003	95	402730	50.0	
134 1,4-Dichlorobenzene	146		13.213				ND	7
148 1,2,3-Trimethylbenzene	105		13.223				ND	
170 Benzyl chloride	91		13.290				ND	7
171 1,3-Diethylbenzene	119		13.345				ND	
172 p-Diethylbenzene	119		13.415				ND	
173 n-Butylbenzene	92		13.435				ND	
174 1,2-Dichlorobenzene	146		13.473				ND	
175 o-diethylbenzene	119		13.489				ND	
185 Hexachloroethane	201		13.560				ND	
176 1,2-Dibromo-3-Chloropropane	75		14.016				ND	7
177 1,3,5-Trichlorobenzene	180		14.137				ND	
179 1,2,4-Trichlorobenzene	180		14.564				ND	
181 2-Ethylhexyl acrylate	55		14.616				ND	U
180 Hexachlorobutadiene	225		14.644				ND	
182 Naphthalene	128		14.747				ND	7
183 1,2,3-Trichlorobenzene	180		14.892				ND	
184 2-Methylnaphthalene	142		15.533				ND	7
T 287 1-Methylnaphthalene (TIC)	142	15.553	15.575	-0.022	1	52	0.002915	
186 tert-Butyl Formate	1		0.000				ND	
215 2-ethoxy-2-methyl butane TIC	1		0.000				ND	
216 Dimethylformamide TIC	1		0.000				ND	
217 Undecane	1		0.000				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
218 4-Ethyltoluene	1		0.000				ND	
219 sec-Butyl Alcohol	45		0.000				ND	
220 Diethoxymethane	1		0.000				ND	
211 Ethyl bromide	1		0.000				ND	
212 1,3-Divinylbenzene	1		0.000				ND	
213 Propene oxide	1		0.000				ND	
221 1,4-Divinylbenzene	1		0.000				ND	
281 2,3-Dimethylbutane TIC	1		0.000				ND	
282 2,2-Dimethylbutane TIC	1		0.000				ND	
283 Methylcyclopentane TIC	1		0.000				ND	
284 Dimethyl Sulfide TIC	1		0.000				ND	
285 2,2-Dimethylpropane TIC	1		0.000				ND	
286 2-Methylhexane TIC	1		0.000				ND	
288 3-Methylpentane TIC	1		0.000				ND	
222 1,1,1,2-Tetrafluoroethane TIC	1		0.000				ND	
223 3-Pentanone TIC	1		0.000				ND	
\$ 280 trans-1,2,3-Trichlorobutene-2 TIC	1		0.000				ND	
210 n-Octane	1		0.000				ND	
S 209 divinyl benzene	1		0.000				ND	7
189 Decamethylcyclopentasiloxane TIC	1		0.000				ND	
190 n-Nonane	1		0.000				ND	
191 Gasoline (Unleaded)	1		0.000				ND	
192 1-Methylnaphthalene	142		0.000				ND	
193 sec-Butyl Alcohol TIC	1		0.000				ND	
194 1-Chlorobutane	1		0.000				ND	
195 trans-1,2,3-Trichlorobutene-2	1		0.000				ND	
196 3-Methyl-1-butene	1		0.000				ND	
187 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
188 cis-1,2,3-Trichlorobutene-2	1		0.000				ND	
197 Propanol	1		0.000				ND	
200 Methylal	1		0.000				ND	
201 2,3-Dichloro-1,3-butadiene	1		0.000				ND	
S 202 Total BTEX	1		0.000				ND	
203 Isobutyl acetate	43		0.000				ND	
204 1-Bromo-2-chloroethane	1		0.000				ND	
S 205 Total Diethylbenzene	1		0.000				ND	7
206 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000				ND	
198 3-chloro-1-Butene	1		0.000				ND	
199 Chloroacetonitrile	1		0.000				ND	
289 Cyclopentane TIC	1		0.000				ND	
290 3-Methylhexane TIC	1		0.000				ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00030

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 11-Oct-2024 14:27:01

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X58.D

Injection Date: 11-Oct-2024 00:36:30

Instrument ID: 9137

Operator ID: KEL87800

Lims ID: 410-191672-A-1

Lab Sample ID: 410-191672-1

Worklist Smp#: 9

Client ID: HD-MW-79-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

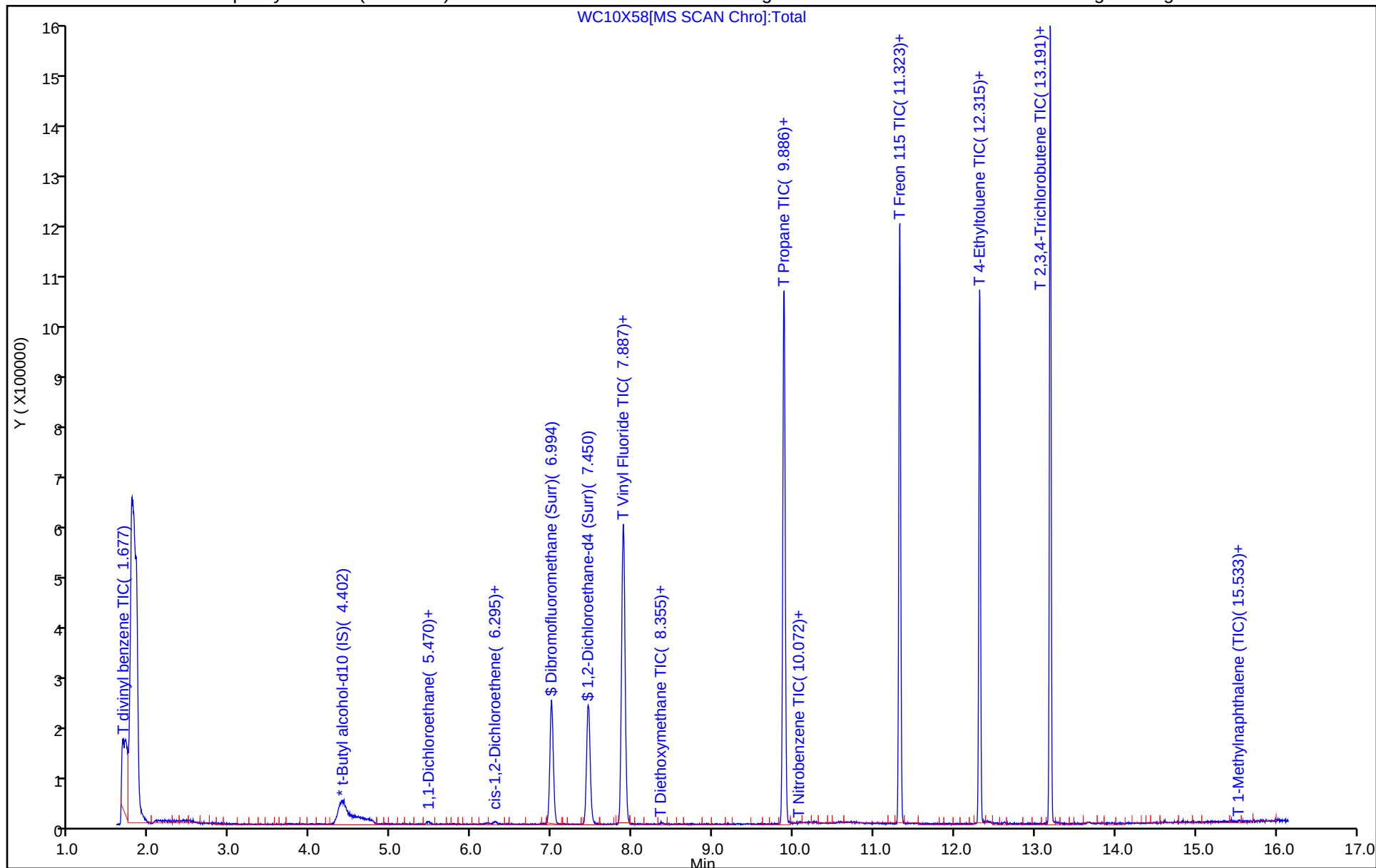
ALS Bottle#: 8

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X58.D
Lims ID: 410-191672-A-1
Client ID: HD-MW-79-0/1-0
Sample Type: Client
Inject. Date: 11-Oct-2024 00:36:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127401-009
Operator ID: KEL87800 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2024 14:26:24 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1645

First Level Reviewer: FQ4L

Date: 11-Oct-2024 14:27:00

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	54.3	108.60
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	52.1	104.12
\$ 84 Toluene-d8 (Surr)	50.0	48.2	96.31
\$ 114 4-Bromofluorobenzene (Surr)	50.0	47.6	95.19

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X58.D

Injection Date: 11-Oct-2024 00:36:30

Instrument ID: 9137

Lims ID: 410-191672-A-1

Lab Sample ID: 410-191672-1

Client ID: HD-MW-79-0/1-0

Operator ID: KEL87800

ALS Bottle#: 8

Worklist Smp#: 9

Purge Vol: 5.000 mL

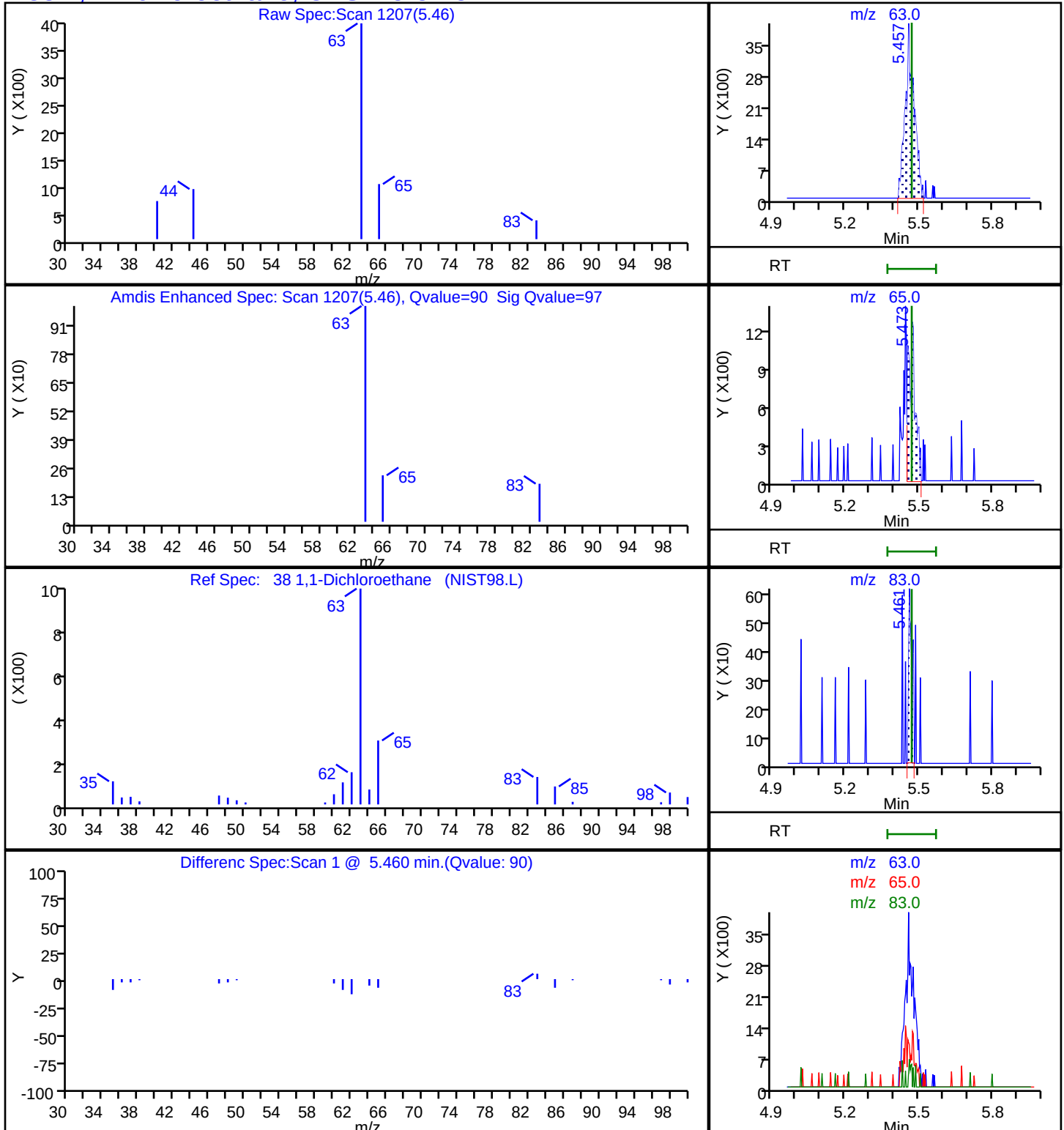
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

38 1,1-Dichloroethane, CAS: 75-34-3

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X58.D

Instrument ID: 9137

Lab Sample ID: 410-191672-1

Operator ID: KEL87800

ALS Bottle#: 8

Worklist Smp#: 9

Dil. Factor: 1.0000

Limit Group: MSV - 8260C D

MS Quad

43 cis-1,2-Dichloroethene, CAS: 156-55-2

Raw Spec: Scan 1467(6.29)

Enhanced Spec: Scan 1467(6.29), Qvalue=16 Sig Qvalue=60

Ref Spec: 43 cis-1,2-Dichloroethene (NIST98.L)

Difference Spec: Scan 1467 @ 6.292 min. (Qvalue: 16)

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X58.D

Injection Date: 11-Oct-2024 00:36:30

Instrument ID: 9137

Lims ID: 410-191672-A-1

Lab Sample ID: 410-191672-1

Client ID: HD-MW-79-0/1-0

Operator ID: KEL87800

ALS Bottle#: 8

Worklist Smp#: 9

Purge Vol: 5.000 mL

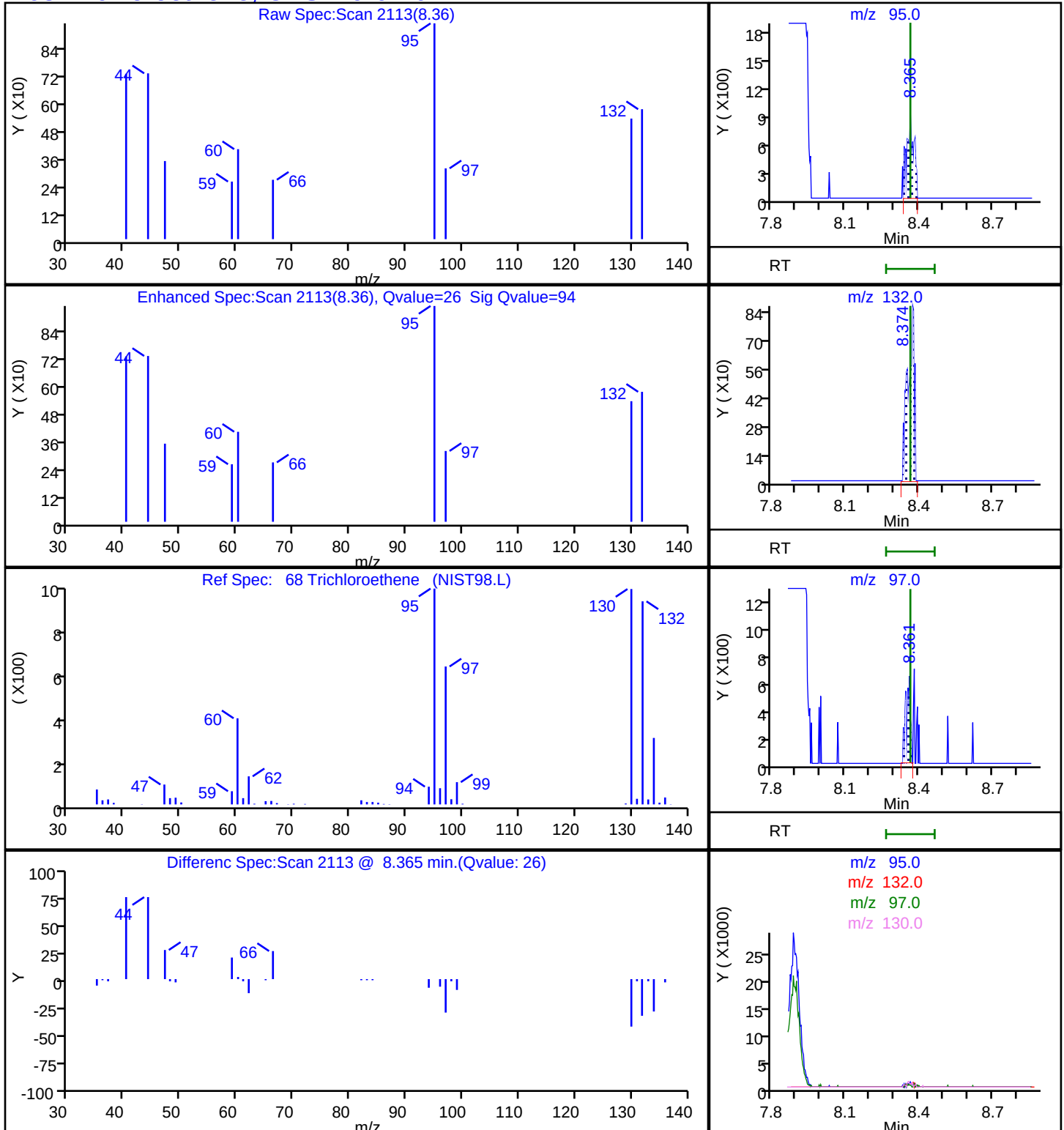
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm ID) x 150 m

MS Quad

68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X58.D

Injection Date: 11-Oct-2024 00:36:30

Instrument ID: 9137

Lims ID: 410-191672-A-1

Lab Sample ID: 410-191672-1

Client ID: HD-MW-79-0/1-0

Operator ID: KEL87800

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: MSVoa_9137

Limit Group:

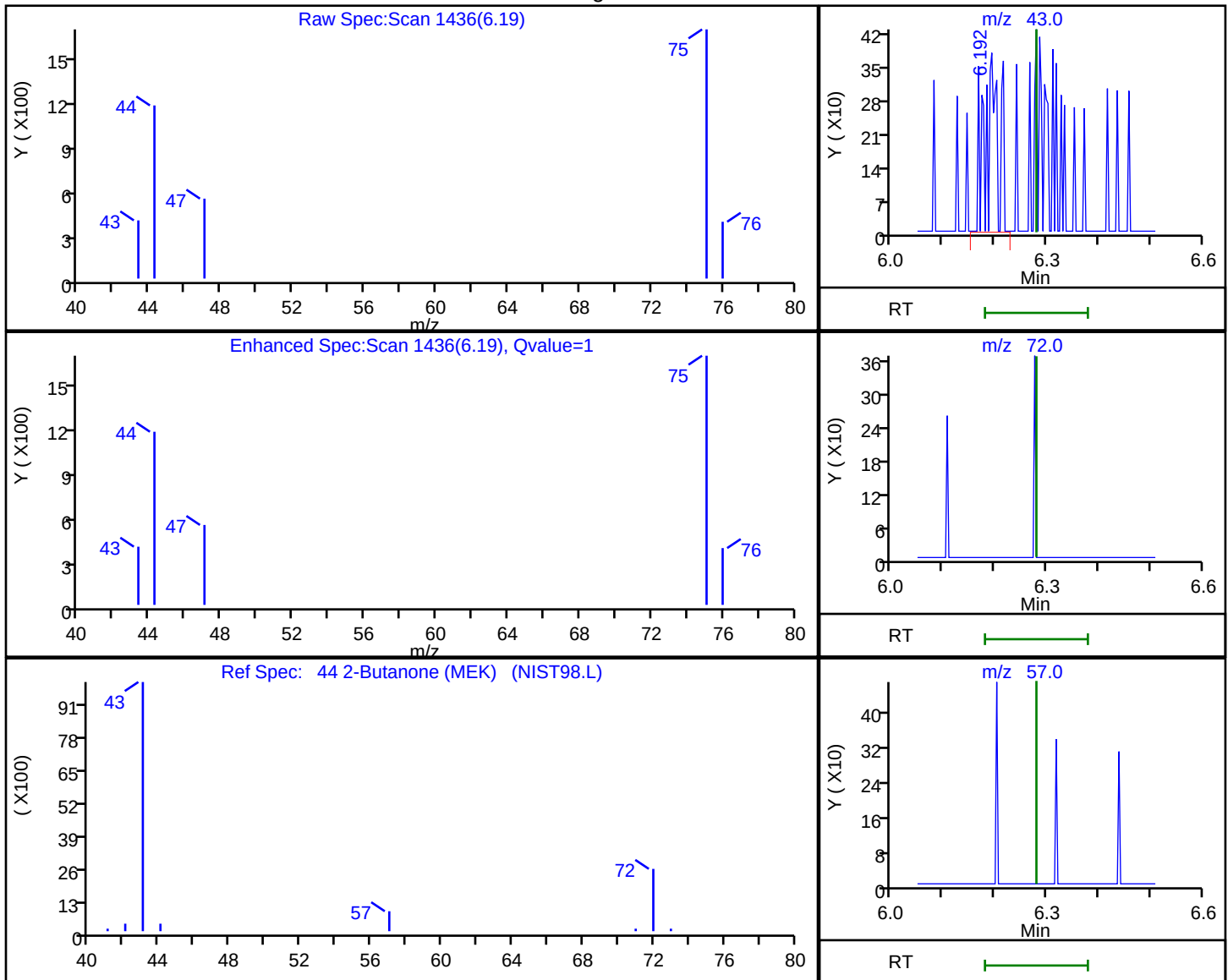
MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.19	43.00	670	0.157791
6.28	72.00	0	
6.28	57.00	0	

Reviewer: FQ4L, 11-Oct-2024 14:23:34 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-MW-142D-0/1-0

Lab Sample ID: 410-191672-2

Matrix: Water

Lab File ID: WC10X61.D

Analysis Method: 8260D

Date Collected: 10/08/2024 13:25

Sample wt/vol: 5 (mL)

Date Analyzed: 10/11/2024 01:41

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 561893

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND	^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	0.57	J	1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-MW-142D-0/1-0

Lab Sample ID: 410-191672-2

Matrix: Water

Lab File ID: WC10X61.D

Analysis Method: 8260D

Date Collected: 10/08/2024 13:25

Sample wt/vol: 5 (mL)

Date Analyzed: 10/11/2024 01:41

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 561893

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X61.D
 Lims ID: 410-191672-A-2
 Client ID: HD-MW-142D-0/1-0
 Sample Type: Client
 Inject. Date: 11-Oct-2024 01:41:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127401-012
 Operator ID: KEL87800 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 11-Oct-2024 14:00:54 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1645

First Level Reviewer: FQ4L

Date: 11-Oct-2024 14:00:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
7 Chloromethane	50		2.213				ND	7
8 Vinyl chloride	62		2.332				ND	
11 Bromomethane	94		2.695				ND	
12 Chloroethane	64		2.781				ND	
21 1,1-Dichloroethene	96		3.699				ND	
20 Acetone	58		3.731				ND	
26 Carbon disulfide	76		4.020				ND	U
30 Methylene Chloride	84		4.389				ND	
* 32 t-Butyl alcohol-d10 (IS)	65	4.395	4.408	-0.013	8	284354	250.0	
36 Methyl tert-butyl ether	73		4.793				ND	
35 trans-1,2-Dichloroethene	96		4.796				ND	
38 1,1-Dichloroethane	63		5.470				ND	
44 2-Butanone (MEK)	43		6.279				ND	U
43 cis-1,2-Dichloroethene	96	6.301	6.301	0.000	25	2971	0.5693	
50 Chlorobromomethane	128		6.632				ND	
52 Chloroform	83		6.786				ND	
\$ 54 Dibromofluoromethane (Surr)	113	6.998	6.998	0.000	93	235597	53.5	
55 1,1,1-Trichloroethane	97		7.014				ND	
58 Carbon tetrachloride	117		7.216				ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.447	7.457	-0.010	70	57536	50.1	
61 Benzene	78		7.489				ND	
62 1,2-Dichloroethane	62		7.562				ND	
* 65 Fluorobenzene (IS)	96	7.883	7.890	-0.007	99	916193	50.0	
68 Trichloroethene	95		8.365				ND	
71 1,2-Dichloropropane	63		8.708				ND	
77 Dichlorobromomethane	83		9.048				ND	
81 cis-1,3-Dichloropropene	75		9.584				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.757				ND	
\$ 84 Toluene-d8 (Surr)	98	9.886	9.886	0.000	93	910124	48.8	
85 Toluene	92		9.959				ND	
86 trans-1,3-Dichloropropene	75		10.213				ND	7
88 1,1,2-Trichloroethane	97		10.412				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
90 Tetrachloroethene	166		10.499				ND	7
94 2-Hexanone	43		10.627				ND	U
96 Chlorodibromomethane	129		10.784				ND	
98 Ethylene Dibromide	107		10.896				ND	
S 178 Xylenes, Total	106		11.245				ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.323	0.000	85	705571	50.0	
102 Chlorobenzene	112		11.349				ND	7
104 1,1,1,2-Tetrachloroethane	131		11.432				ND	
105 Ethylbenzene	91		11.432				ND	7
106 m-Xylene & p-Xylene	106		11.548				ND	7
108 o-Xylene	106		11.875				ND	7
109 Styrene	104		11.888				ND	7
110 Bromoform	173		12.048				ND	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.315	12.312	0.003	91	336974	48.1	
116 1,1,2,2-Tetrachloroethane	83		12.418				ND	
* 133 1,4-Dichlorobenzene-d4	152	13.191	13.191	0.000	95	408159	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00030

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 11-Oct-2024 14:00:55

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X61.D

Injection Date: 11-Oct-2024 01:41:30

Instrument ID: 9137

Operator ID: KEL87800

Lims ID: 410-191672-A-2

Lab Sample ID: 410-191672-2

Worklist Smp#: 12

Client ID: HD-MW-142D-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

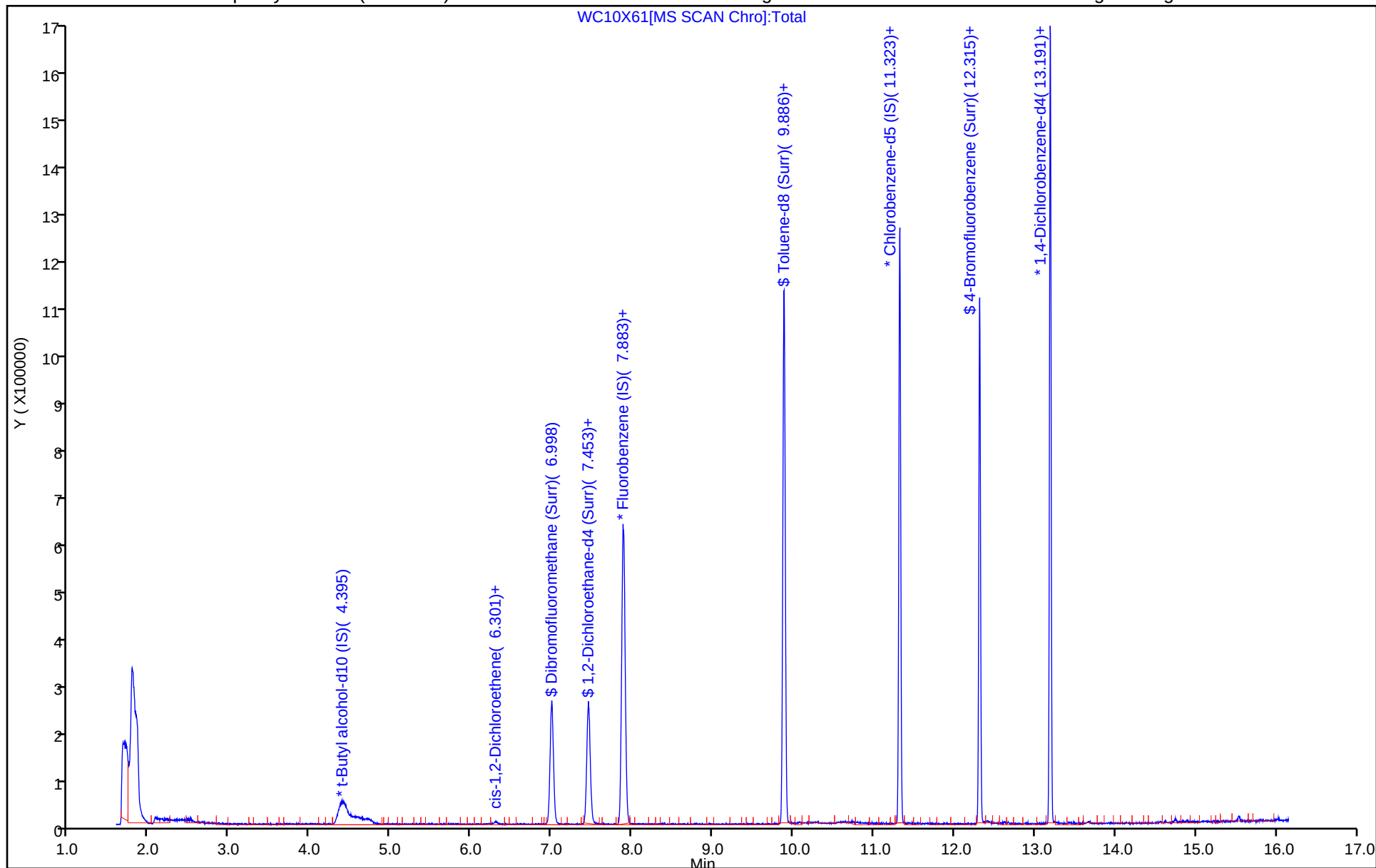
ALS Bottle#: 11

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X61.D
Lims ID: 410-191672-A-2
Client ID: HD-MW-142D-0/1-0
Sample Type: Client
Inject. Date: 11-Oct-2024 01:41:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127401-012
Operator ID: KEL87800 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2024 14:00:54 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1645

First Level Reviewer: FQ4L

Date: 11-Oct-2024 14:00:54

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	53.5	107.07
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	50.1	100.22
\$ 84 Toluene-d8 (Surr)	50.0	48.8	97.70
\$ 114 4-Bromofluorobenzene (Surr)	50.0	48.1	96.23

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X61.D

Injection Date: 11-Oct-2024 01:41:30

Instrument ID: 9137

Lims ID: 410-191672-A-2

Lab Sample ID: 410-191672-2

Client ID: HD-MW-142D-0/1-0

Operator ID: KEL87800

ALS Bottle#: 11

Worklist Smp#: 12

Purge Vol: 5.000 mL

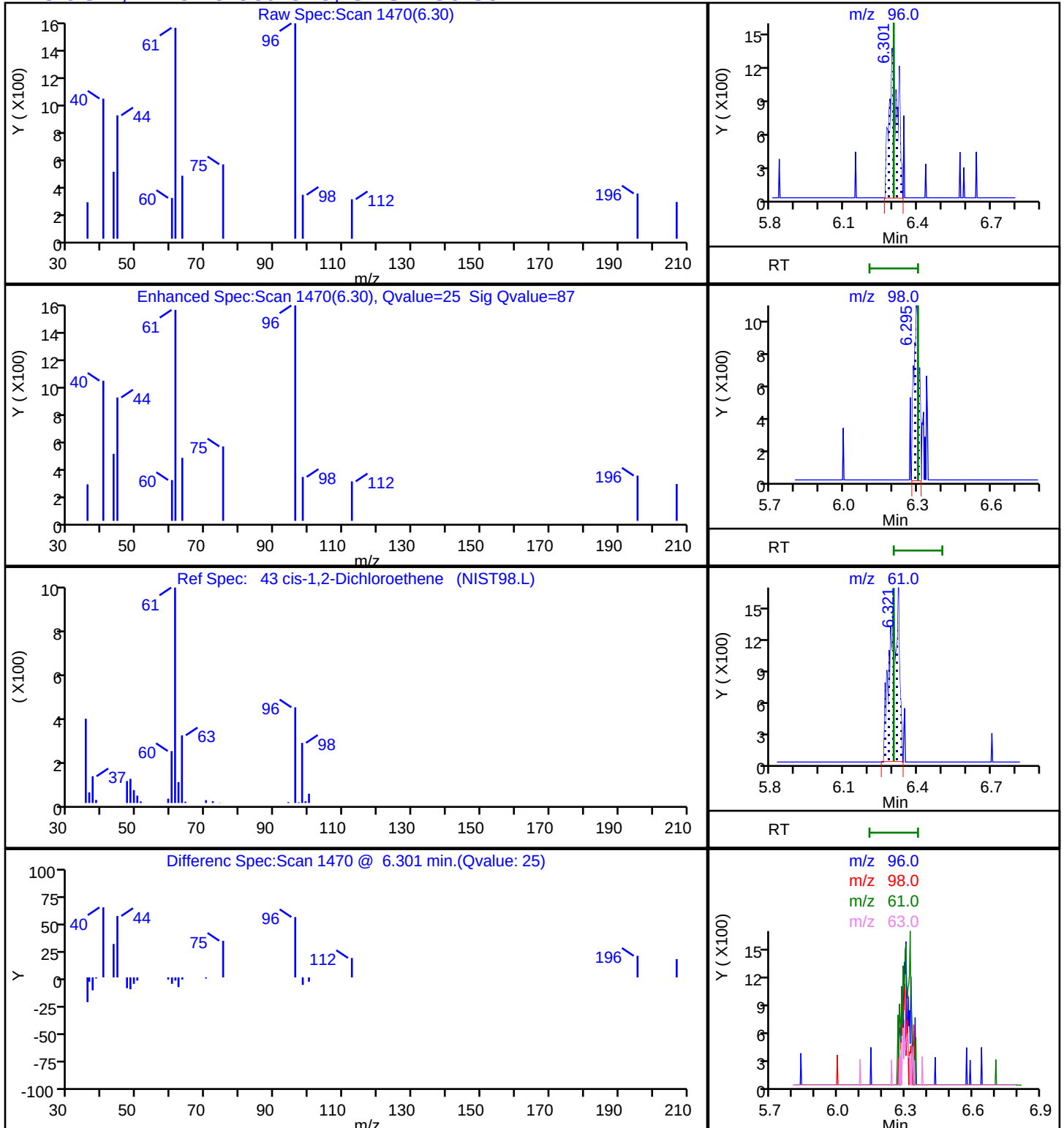
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

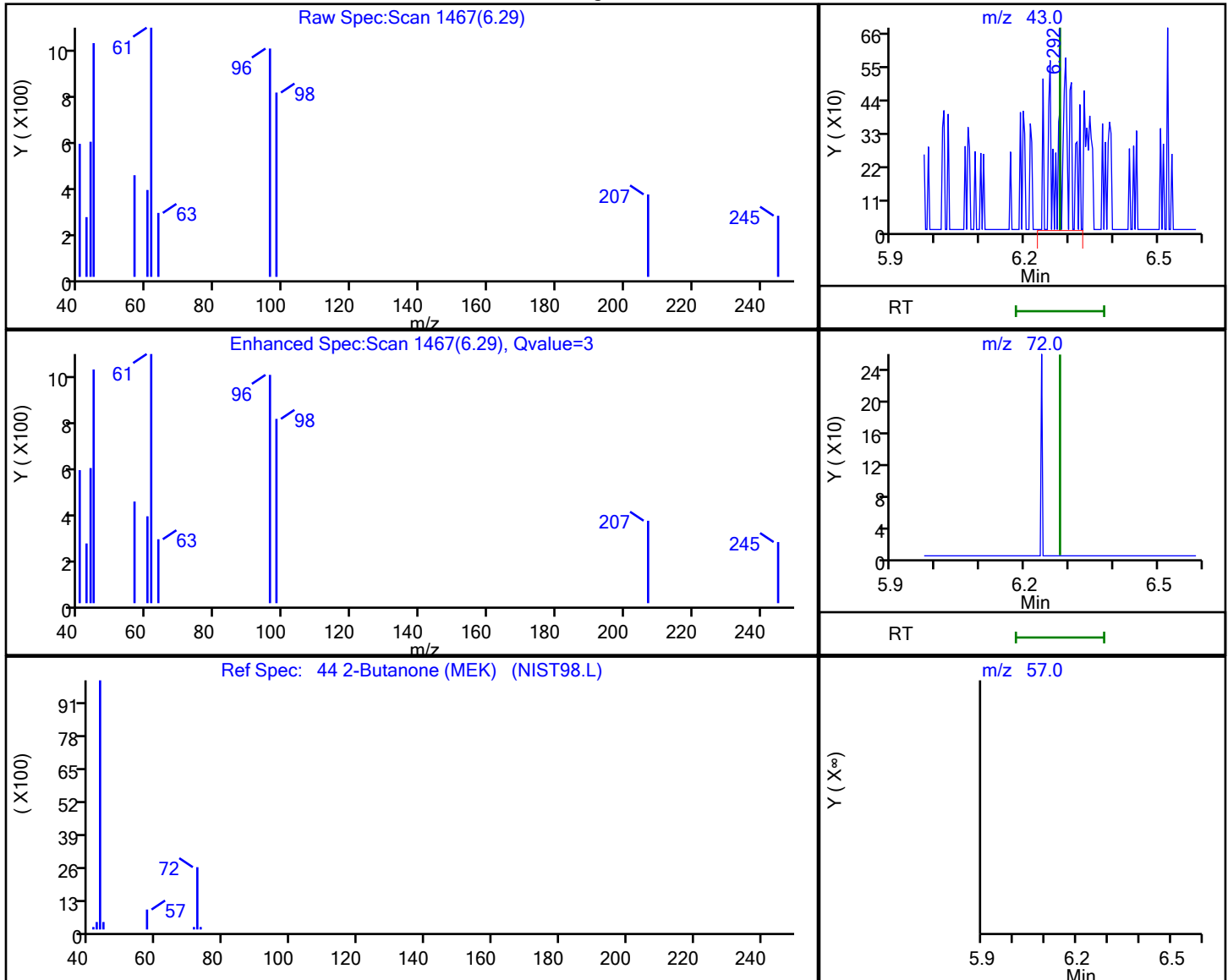
43 cis-1,2-Dichloroethene, CAS: 156-59-2

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X61.D
Injection Date: 11-Oct-2024 01:41:30 Instrument ID: 9137
Lims ID: 410-191672-A-2 Lab Sample ID: 410-191672-2
Client ID: HD-MW-142D-0/1-0
Operator ID: KEL87800 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.29	43.00	1222	0.280152
6.28	72.00	0	
6.28	57.00	0	

Reviewer: FQ4L, 11-Oct-2024 14:00:35 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

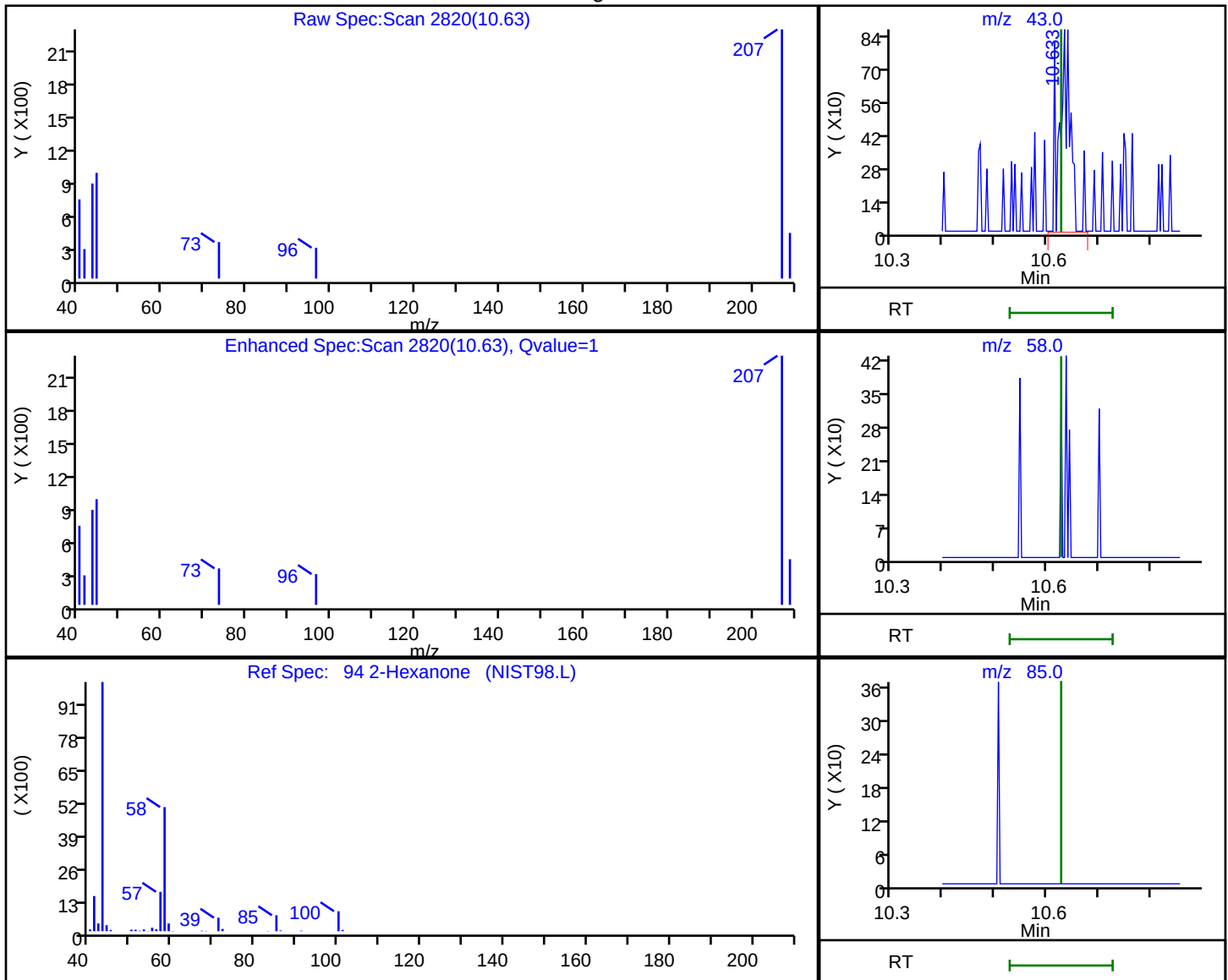
Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X61.D
Injection Date: 11-Oct-2024 01:41:30 Instrument ID: 9137
Lims ID: 410-191672-A-2 Lab Sample ID: 410-191672-2
Client ID: HD-MW-142D-0/1-0
Operator ID: KEL87800 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

94 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
10.63	43.00	1256	0.208702
10.63	58.00	0	
10.63	85.00	0	
10.63	100.00	0	

Reviewer: FQ4L, 11-Oct-2024 14:00:45 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X61.D

Injection Date: 11-Oct-2024 01:41:30

Instrument ID: 9137

Lims ID: 410-191672-A-2

Lab Sample ID: 410-191672-2

Client ID: HD-MW-142D-0/1-0

Operator ID: KEL87800

ALS Bottle#: 11 Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: MSVoa_9137

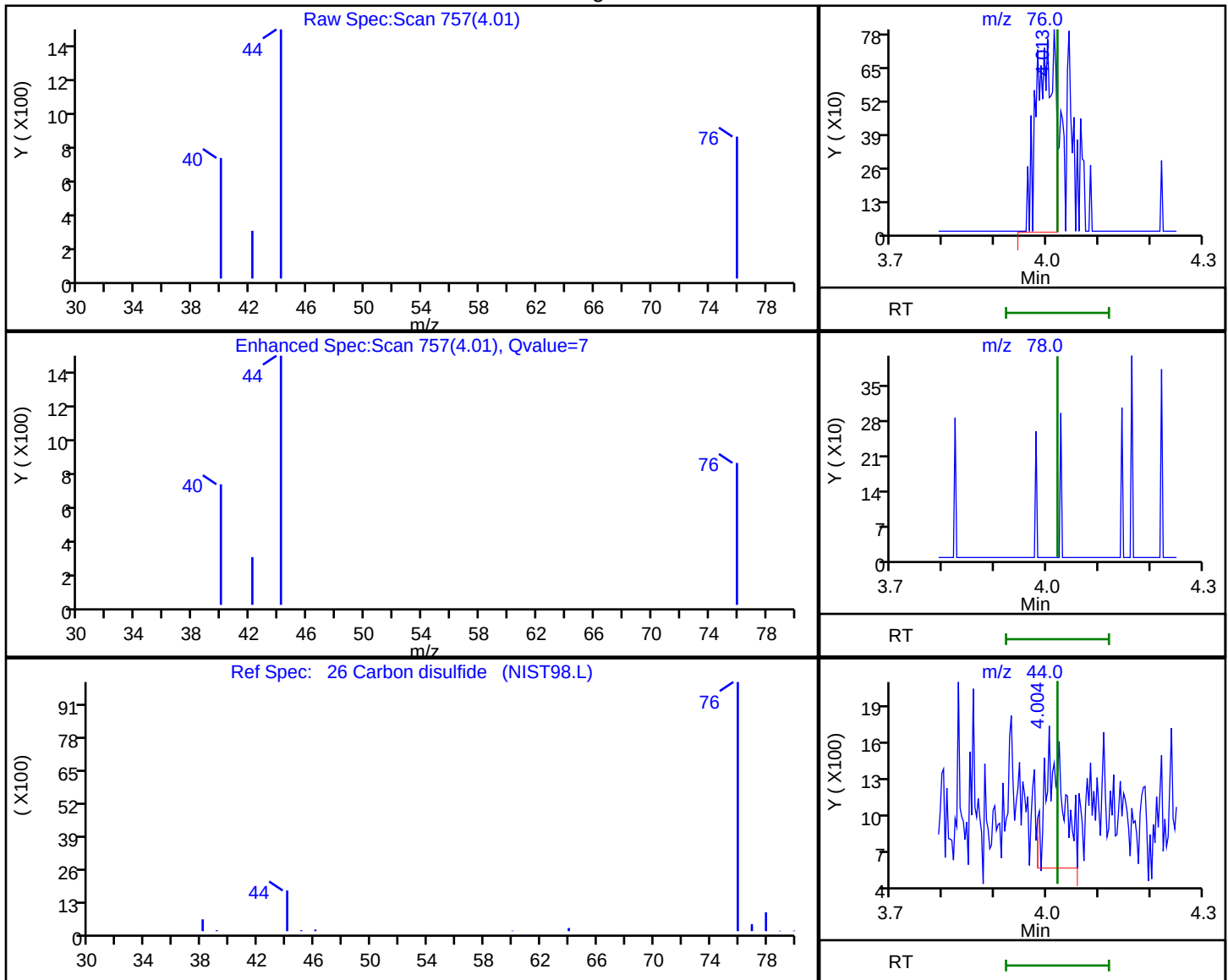
Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
4.01	76.00	1841	0.110508
4.02	78.00	0	
4.00	44.00	2452	

Reviewer: FQ4L, 11-Oct-2024 14:00:17 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-MW-112-0/1-0

Lab Sample ID: 410-191672-3

Matrix: Water

Lab File ID: WC13X23.D

Analysis Method: 8260D

Date Collected: 10/07/2024 13:50

Sample wt/vol: 5 (mL)

Date Analyzed: 10/14/2024 03:36

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 562572

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND	^c cn	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	1.2		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-MW-112-0/1-0 Lab Sample ID: 410-191672-3

Matrix: Water Lab File ID: WC13X23.D

Analysis Method: 8260D Date Collected: 10/07/2024 13:50

Sample wt/vol: 5 (mL) Date Analyzed: 10/14/2024 03:36

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 562572 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	1.0		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X23.D
 Lims ID: 410-191672-A-3
 Client ID: HD-MW-112-0/1-0
 Sample Type: Client
 Inject. Date: 14-Oct-2024 03:36:30 ALS Bottle#: 23 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127582-024
 Operator ID: gaw91131 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 15-Oct-2024 11:23:53 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1602

First Level Reviewer: N9NA

Date: 15-Oct-2024 11:30:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
7 Chloromethane	50		2.219				ND	7
8 Vinyl chloride	62		2.335				ND	
11 Bromomethane	94		2.694				ND	
12 Chloroethane	64		2.781				ND	
21 1,1-Dichloroethene	96		3.696				ND	
20 Acetone	58		3.724				ND	
26 Carbon disulfide	76		4.020				ND	
30 Methylene Chloride	84		4.382				ND	
* 32 t-Butyl alcohol-d10 (IS)	65	4.402	4.389	0.013	6	298357	250.0	
35 trans-1,2-Dichloroethene	96		4.793				ND	
36 Methyl tert-butyl ether	73		4.799				ND	
38 1,1-Dichloroethane	63		5.467				ND	
44 2-Butanone (MEK)	43		6.285				ND	7
43 cis-1,2-Dichloroethene	96		6.304				ND	7
50 Chlorobromomethane	128		6.638				ND	
52 Chloroform	83		6.786				ND	7
\$ 54 Dibromofluoromethane (Surr)	113	6.994	7.001	-0.007	93	244654	53.5	
55 1,1,1-Trichloroethane	97		7.020				ND	
58 Carbon tetrachloride	117		7.219				ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.450	7.460	-0.010	69	60626	50.8	
61 Benzene	78		7.488				ND	
62 1,2-Dichloroethane	62		7.562				ND	
* 65 Fluorobenzene (IS)	96	7.890	7.896	-0.006	99	951405	50.0	
68 Trichloroethene	95	8.377	8.371	0.006	91	5423	1.02	
71 1,2-Dichloropropane	63		8.708				ND	
77 Dichlorobromomethane	83		9.051				ND	
81 cis-1,3-Dichloropropene	75		9.587				ND	7
83 4-Methyl-2-pentanone (MIBK)	43		9.760				ND	7
\$ 84 Toluene-d8 (Surr)	98	9.886	9.886	0.000	93	946853	50.2	
85 Toluene	92		9.963				ND	
86 trans-1,3-Dichloropropene	75		10.216				ND	
88 1,1,2-Trichloroethane	97		10.418				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
90 Tetrachloroethene	166	10.499	10.498	0.000	93	6127	1.18	
94 2-Hexanone	43		10.630				ND	
96 Chlorodibromomethane	129		10.787				ND	
98 Ethylene Dibromide	107		10.900				ND	
S 178 Xylenes, Total	106		11.245				ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.326	-0.003	84	714072	50.0	
102 Chlorobenzene	112		11.352				ND	
104 1,1,1,2-Tetrachloroethane	131		11.432				ND	
105 Ethylbenzene	91		11.435				ND	
106 m-Xylene & p-Xylene	106		11.548				ND	
108 o-Xylene	106		11.875				ND	
109 Styrene	104		11.891				ND	
110 Bromoform	173		12.048				ND	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.315	12.318	-0.003	90	340084	48.0	
116 1,1,2,2-Tetrachloroethane	83		12.421				ND	
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.194	0.000	95	406509	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00030

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 15-Oct-2024 11:30:09

Chrom Revision: 2.3 14-Oct-2024 13:34:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X23.D

Injection Date: 14-Oct-2024 03:36:30

Instrument ID: 9137

Operator ID: gaw91131

Lims ID: 410-191672-A-3

Lab Sample ID: 410-191672-3

Worklist Smp#: 24

Client ID: HD-MW-112-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

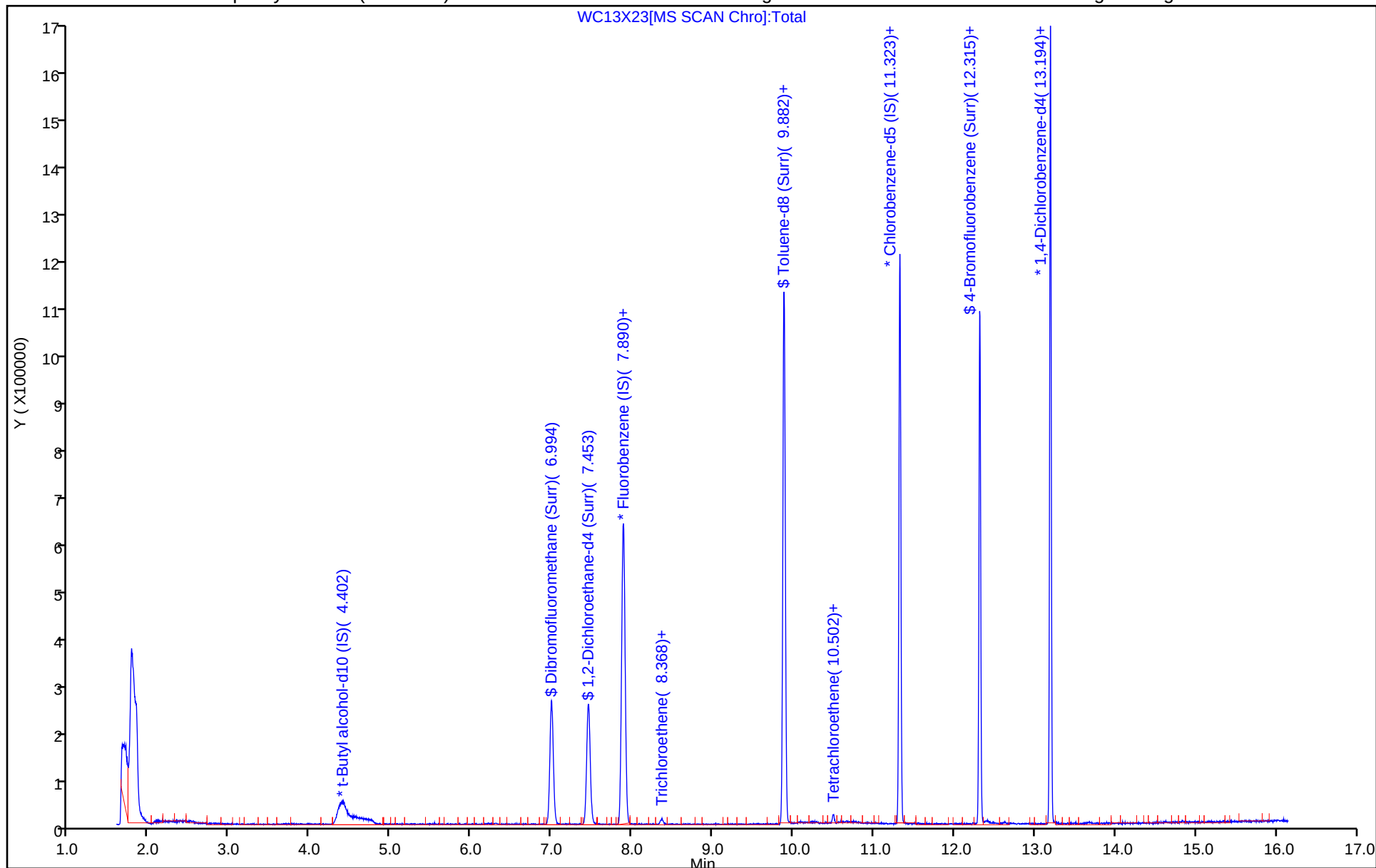
ALS Bottle#: 23

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X23.D
Lims ID: 410-191672-A-3
Client ID: HD-MW-112-0/1-0
Sample Type: Client
Inject. Date: 14-Oct-2024 03:36:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127582-024
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 15-Oct-2024 11:23:53 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: N9NA

Date: 15-Oct-2024 11:30:08

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	53.5	107.07
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	50.8	101.70
\$ 84 Toluene-d8 (Surr)	50.0	50.2	100.43
\$ 114 4-Bromofluorobenzene (Surr)	50.0	48.0	95.96

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X23.D

Injection Date: 14-Oct-2024 03:36:30

Instrument ID: 9137

Lims ID: 410-191672-A-3

Lab Sample ID: 410-191672-3

Client ID: HD-MW-112-0/1-0

Operator ID: gaw91131

ALS Bottle#: 23

Worklist Smp#: 24

Purge Vol: 5.000 mL

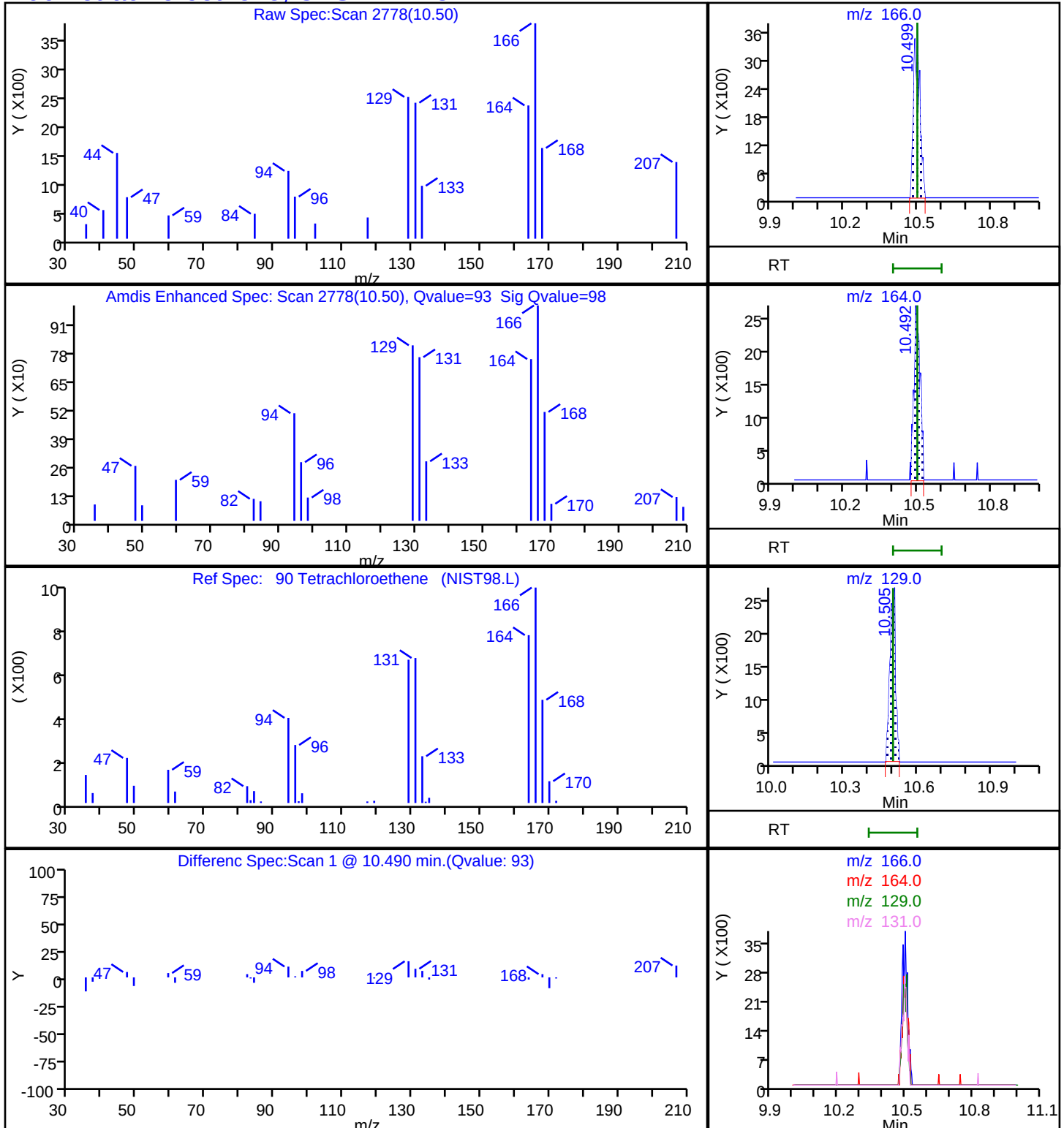
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

90 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X23.D

Injection Date: 14-Oct-2024 03:36:30

Instrument ID: 9137

Lims ID: 410-191672-A-3

Lab Sample ID: 410-191672-3

Client ID: HD-MW-112-0/1-0

Operator ID: gaw91131

ALS Bottle#: 23

Worklist Smp#: 24

Purge Vol: 5.000 mL

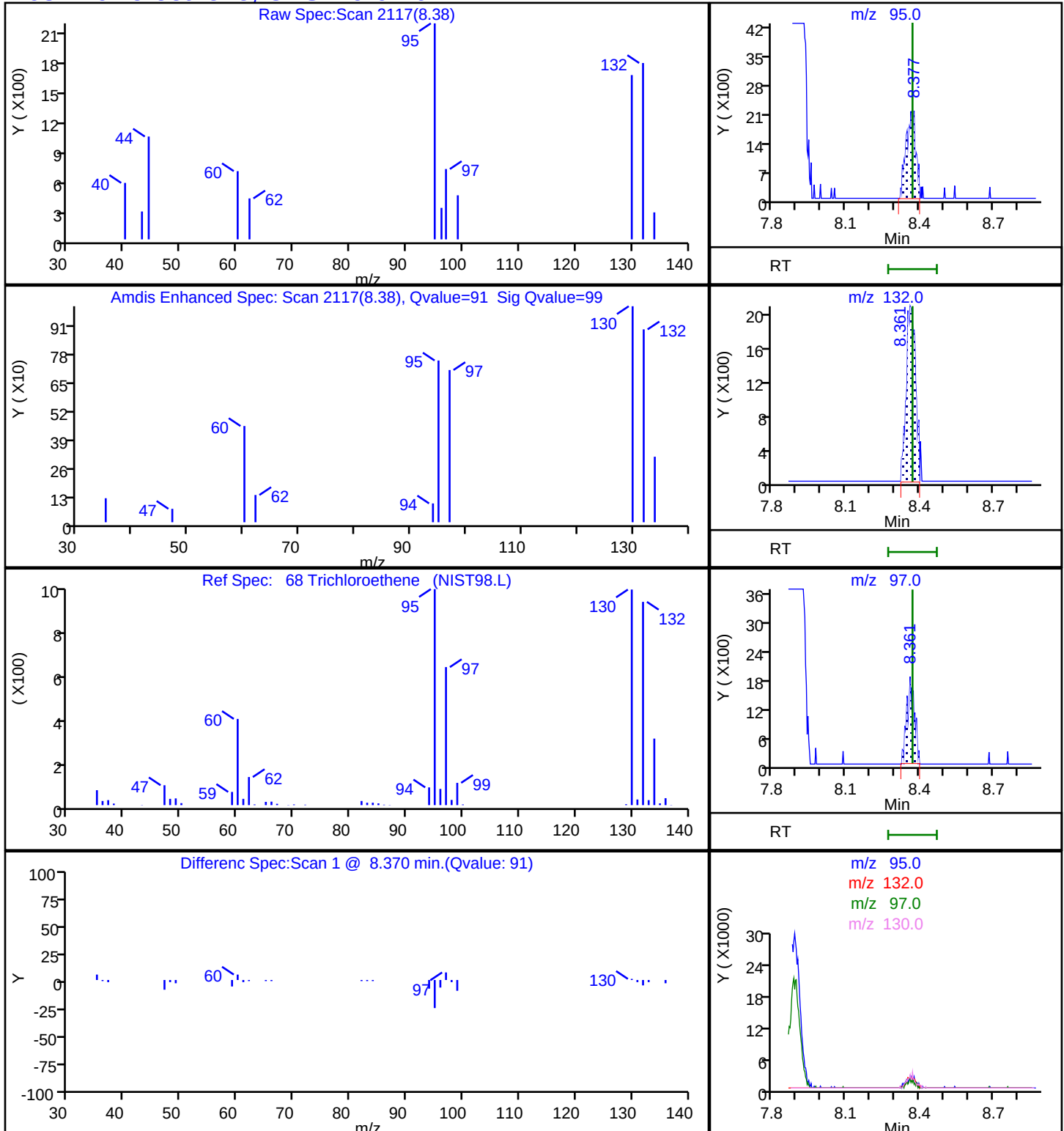
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm ID) x 30 m

MS Quad

68 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-MW-115-0/1-0

Lab Sample ID: 410-191672-4

Matrix: Water

Lab File ID: WC13X24.D

Analysis Method: 8260D

Date Collected: 10/07/2024 11:40

Sample wt/vol: 5 (mL)

Date Analyzed: 10/14/2024 03:58

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 562572

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	11		1.0	0.30
75-35-4	1,1-Dichloroethene	2.0		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	6.1		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND	^c cn	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	84		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	19		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-MW-115-0/1-0

Lab Sample ID: 410-191672-4

Matrix: Water

Lab File ID: WC13X24.D

Analysis Method: 8260D

Date Collected: 10/07/2024 11:40

Sample wt/vol: 5 (mL)

Date Analyzed: 10/14/2024 03:58

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 562572

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	0.87	J	2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	89		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X24.D
 Lims ID: 410-191672-A-4
 Client ID: HD-MW-115-0/1-0
 Sample Type: Client
 Inject. Date: 14-Oct-2024 03:58:30 ALS Bottle#: 24 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127582-025
 Operator ID: gaw91131 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 15-Oct-2024 11:31:41 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1602

First Level Reviewer: N9NA

Date: 15-Oct-2024 11:31:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
7 Chloromethane	50		2.219				ND	U
8 Vinyl chloride	62	2.322	2.335	-0.013	99	897483	88.8	
11 Bromomethane	94		2.694				ND	
12 Chloroethane	64		2.781				ND	U
21 1,1-Dichloroethene	96	3.696	3.696	0.000	90	9714	1.98	
20 Acetone	58		3.724				ND	
26 Carbon disulfide	76		4.020				ND	
30 Methylene Chloride	84		4.382				ND	
* 32 t-Butyl alcohol-d10 (IS)	65	4.392	4.389	0.003	41	298680	250.0	
35 trans-1,2-Dichloroethene	96	4.787	4.793	-0.006	34	4093	0.8738	
36 Methyl tert-butyl ether	73	4.790	4.799	-0.009	95	330010	19.0	
38 1,1-Dichloroethane	63	5.460	5.467	-0.007	96	85545	10.7	
44 2-Butanone (MEK)	43		6.285				ND	7
43 cis-1,2-Dichloroethene	96	6.298	6.304	-0.006	80	449986	84.0	
50 Chlorobromomethane	128		6.638				ND	
52 Chloroform	83		6.786				ND	7
\$ 54 Dibromofluoromethane (Surr)	113	6.998	7.001	-0.003	93	237407	52.6	
55 1,1,1-Trichloroethane	97		7.020				ND	
58 Carbon tetrachloride	117		7.219				ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.453	7.460	-0.007	69	59928	50.9	
61 Benzene	78	7.489	7.488	0.000	94	121507	6.12	
62 1,2-Dichloroethane	62		7.562				ND	U
* 65 Fluorobenzene (IS)	96	7.886	7.896	-0.010	99	940225	50.0	
68 Trichloroethene	95	8.365	8.371	-0.006	20	1036	0.1967	
71 1,2-Dichloropropane	63		8.708				ND	
77 Dichlorobromomethane	83		9.051				ND	
81 cis-1,3-Dichloropropene	75		9.587				ND	7
83 4-Methyl-2-pentanone (MIBK)	43		9.760				ND	7
\$ 84 Toluene-d8 (Surr)	98	9.886	9.886	0.000	93	928795	50.6	
85 Toluene	92		9.963				ND	7
86 trans-1,3-Dichloropropene	75		10.216				ND	
88 1,1,2-Trichloroethane	97		10.418				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
90 Tetrachloroethene	166		10.498				ND	7
94 2-Hexanone	43		10.630				ND	U
96 Chlorodibromomethane	129		10.787				ND	
98 Ethylene Dibromide	107		10.900				ND	
S 178 Xylenes, Total	106		11.245				ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.326	-0.003	85	694983	50.0	
102 Chlorobenzene	112		11.352				ND	
104 1,1,1,2-Tetrachloroethane	131		11.432				ND	
105 Ethylbenzene	91		11.435				ND	7
106 m-Xylene & p-Xylene	106		11.548				ND	7
108 o-Xylene	106		11.875				ND	
109 Styrene	104		11.891				ND	
110 Bromoform	173		12.048				ND	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.318	12.318	0.000	90	336024	48.7	
116 1,1,2,2-Tetrachloroethane	83		12.421				ND	U
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.194	0.000	95	397926	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00030

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 15-Oct-2024 11:31:42

Chrom Revision: 2.3 14-Oct-2024 13:34:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X24.D

Injection Date: 14-Oct-2024 03:58:30

Instrument ID: 9137

Operator ID: gaw91131

Lims ID: 410-191672-A-4

Lab Sample ID: 410-191672-4

Worklist Smp#: 25

Client ID: HD-MW-115-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

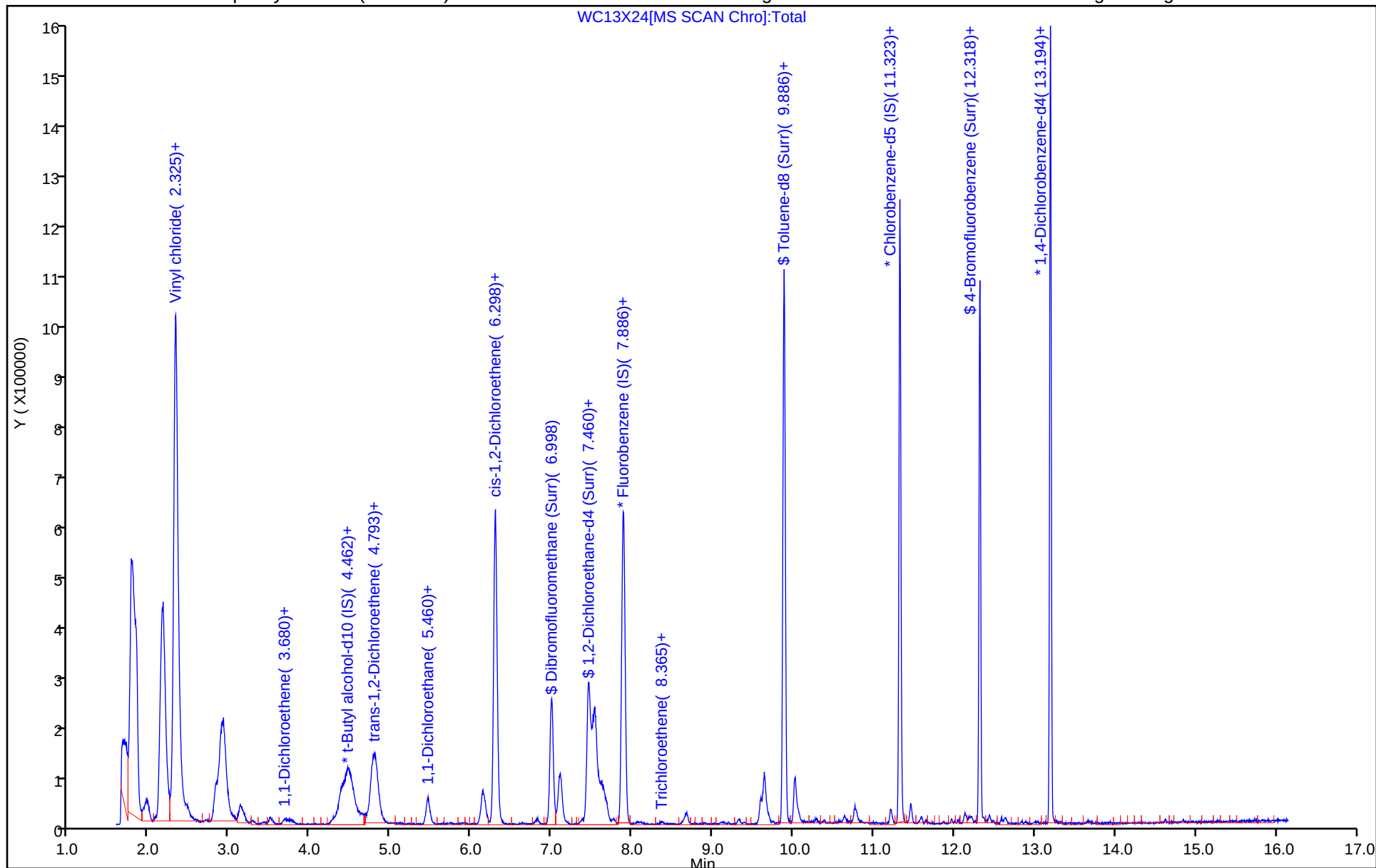
ALS Bottle#: 24

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X24.D
Lims ID: 410-191672-A-4
Client ID: HD-MW-115-0/1-0
Sample Type: Client
Inject. Date: 14-Oct-2024 03:58:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127582-025
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 15-Oct-2024 11:31:41 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: N9NA

Date: 15-Oct-2024 11:31:41

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	52.6	105.14
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	50.9	101.72
\$ 84 Toluene-d8 (Surr)	50.0	50.6	101.22
\$ 114 4-Bromofluorobenzene (Surr)	50.0	48.7	97.42

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X24.D

Injection Date: 14-Oct-2024 03:58:30

Instrument ID: 9137

Lims ID: 410-191672-A-4

Lab Sample ID: 410-191672-4

Client ID: HD-MW-115-0/1-0

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 5.000 mL

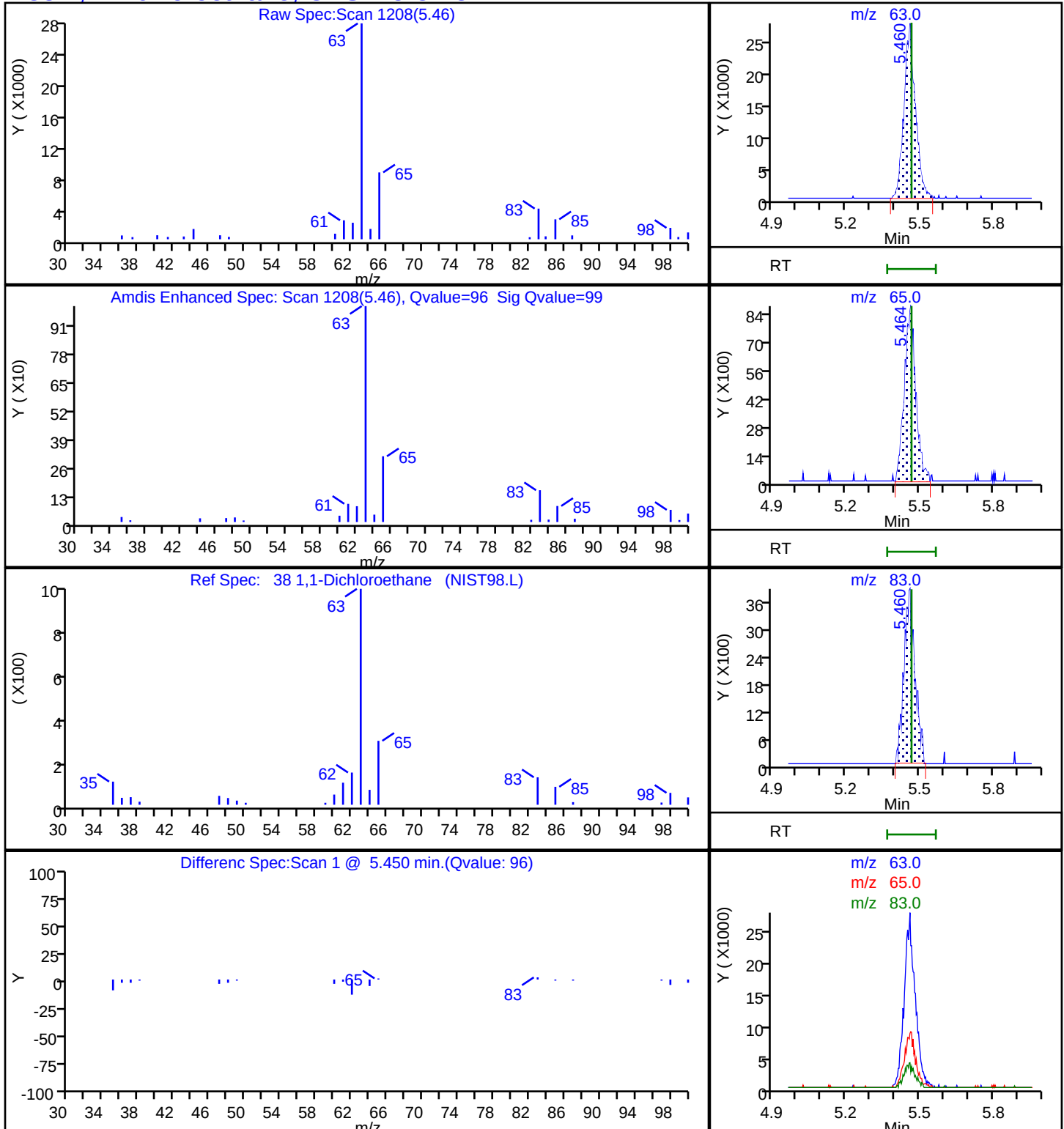
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

38 1,1-Dichloroethane, CAS: 75-34-3

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X24.D

Injection Date: 14-Oct-2024 03:58:30

Instrument ID: 9137

Lims ID: 410-191672-A-4

Lab Sample ID: 410-191672-4

Client ID: HD-MW-115-0/1-0

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 5.000 mL

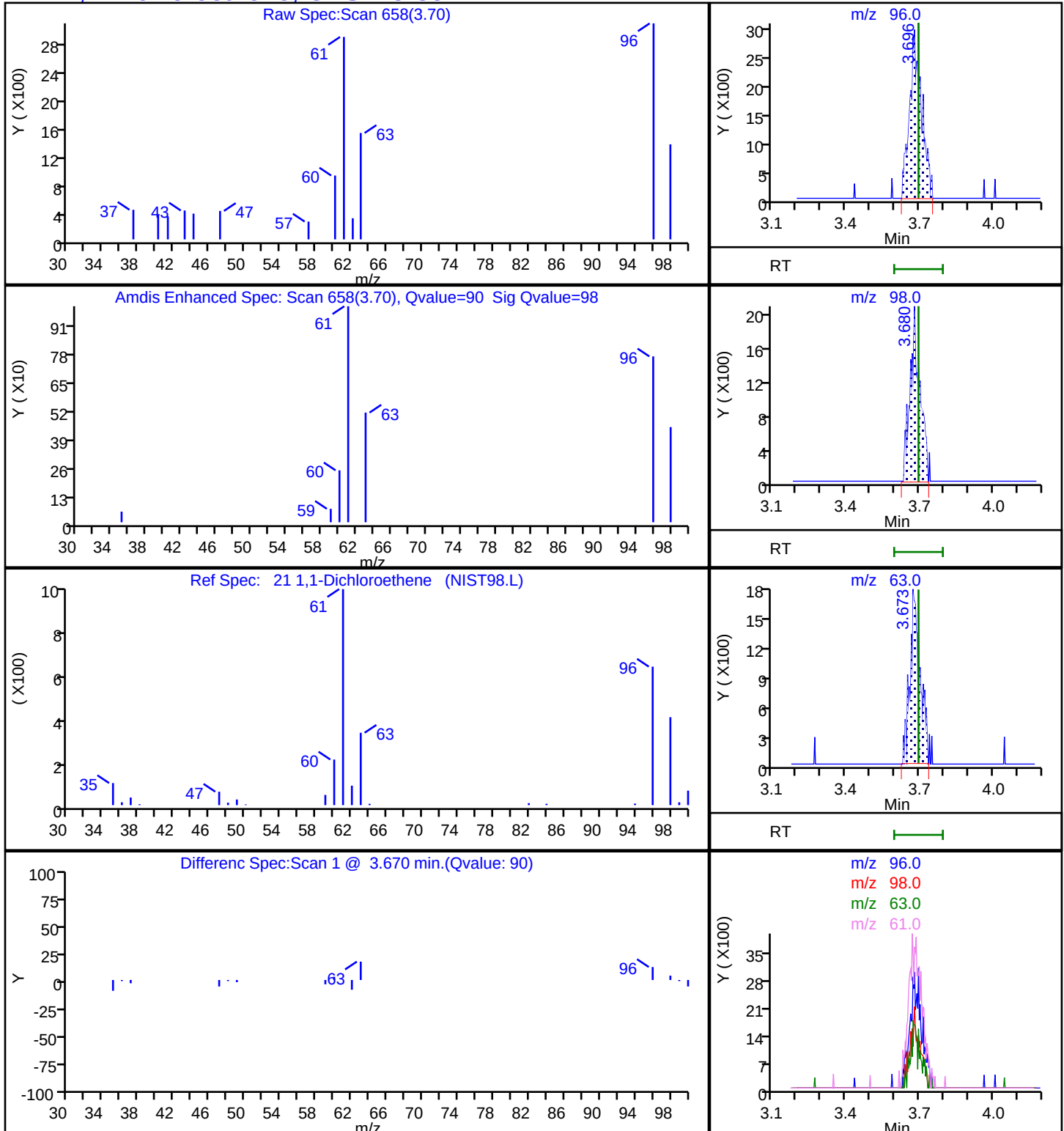
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

21 1,1-Dichloroethene, CAS: 75-35-4

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X24.D

Injection Date: 14-Oct-2024 03:58:30

Instrument ID: 9137

Lims ID: 410-191672-A-4

Lab Sample ID: 410-191672-4

Client ID: HD-MW-115-0/1-0

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 5.000 mL

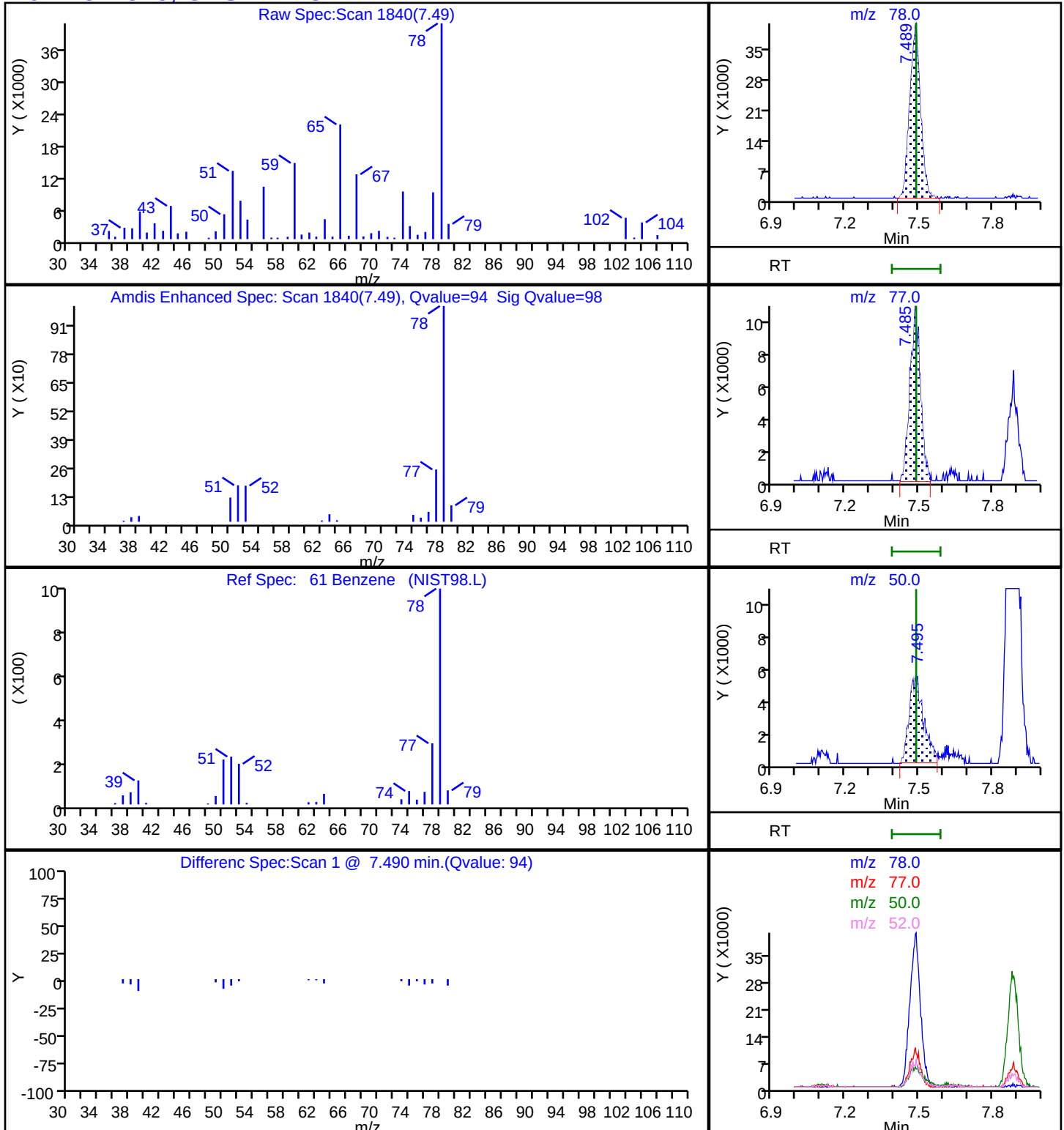
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 150m

MS Quad

61 Benzene, CAS: 71-43-2

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X24.D

Injection Date: 14-Oct-2024 03:58:30

Instrument ID: 9137

Lims ID: 410-191672-A-4

Lab Sample ID: 410-191672-4

Client ID: HD-MW-115-0/1-0

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 5.000 mL

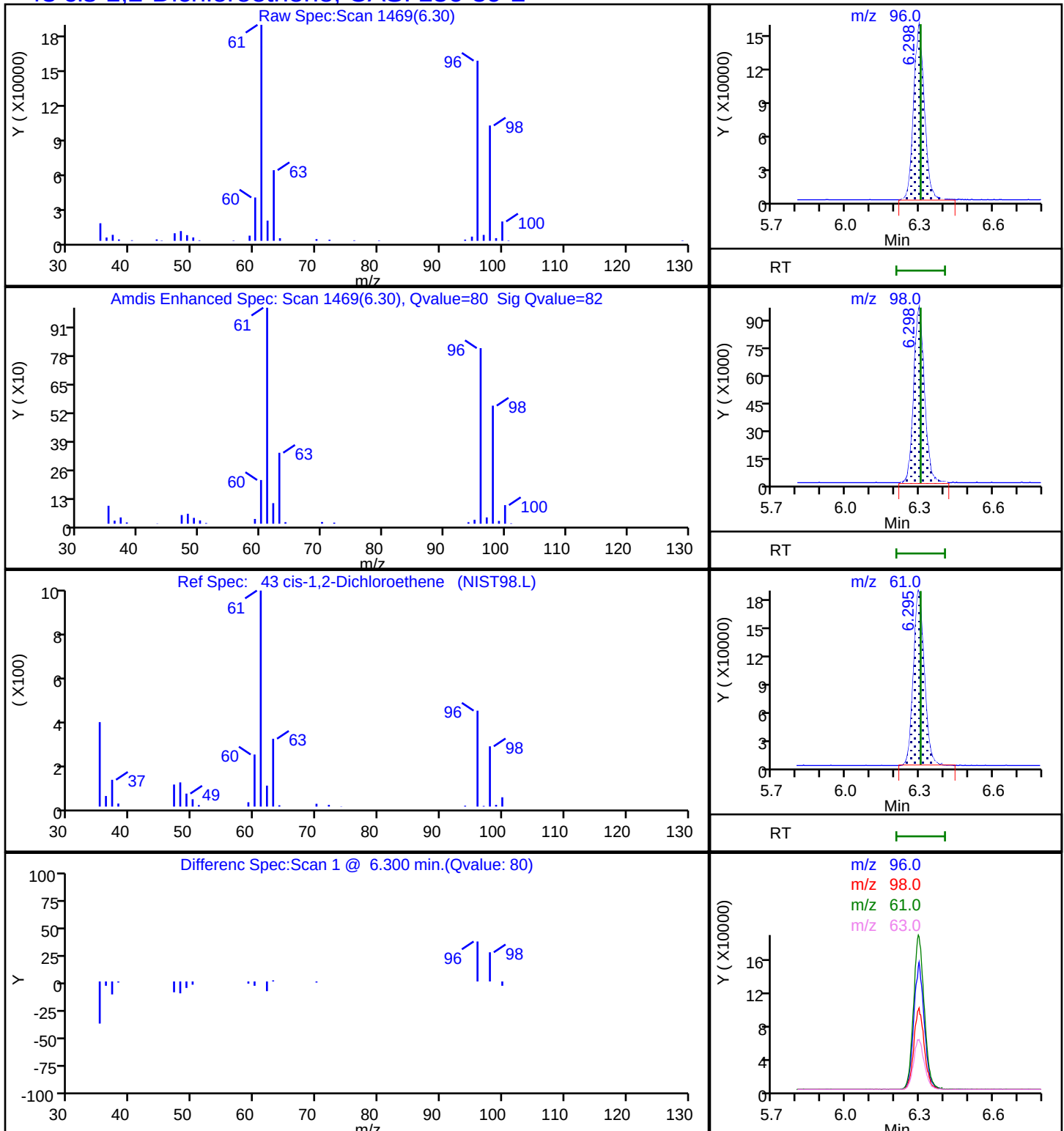
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X24.D

Injection Date: 14-Oct-2024 03:58:30

Instrument ID: 9137

Lims ID: 410-191672-A-4

Lab Sample ID: 410-191672-4

Client ID: HD-MW-115-0/1-0

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 5.000 mL

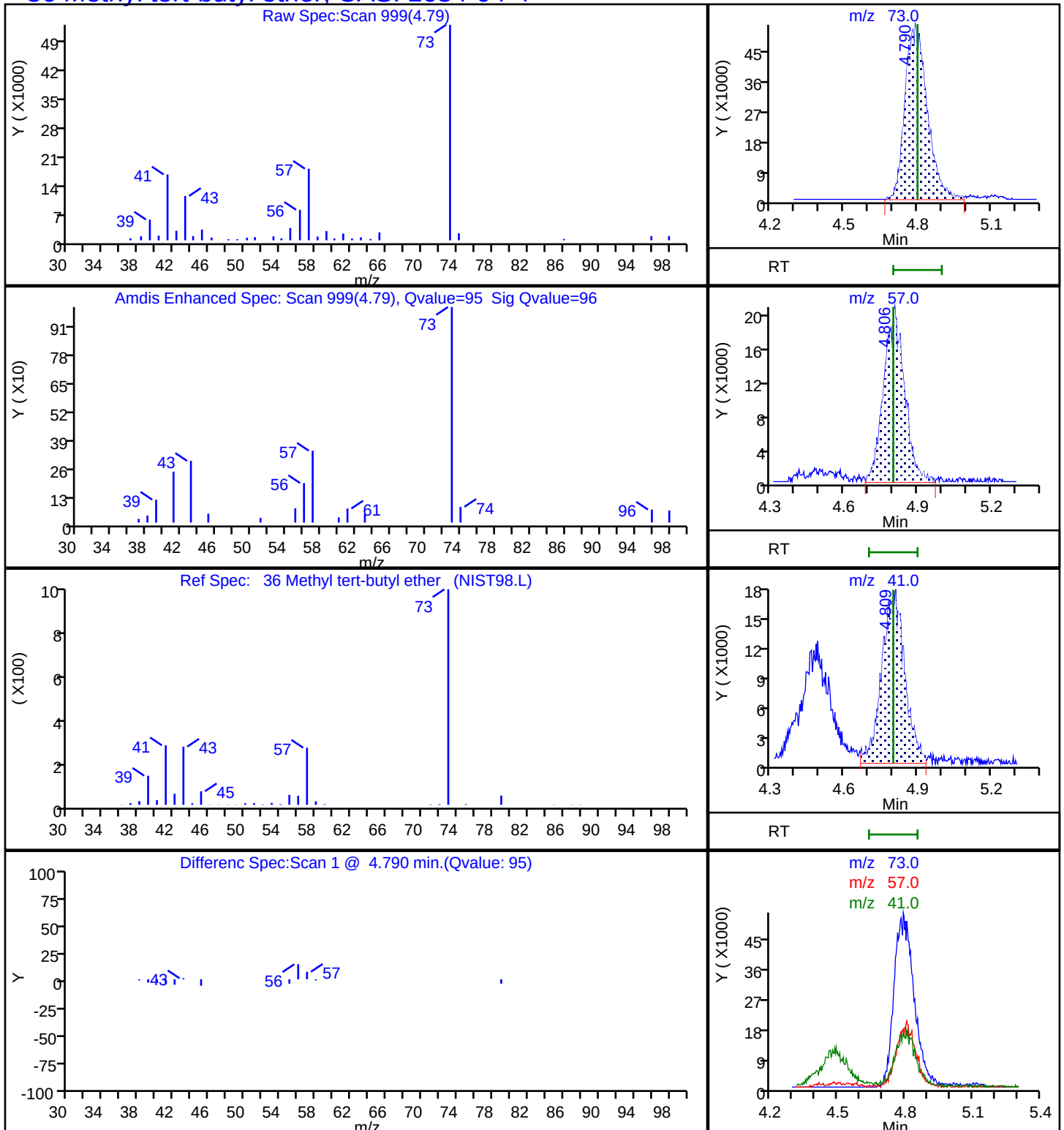
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm ID) x 30 m

MS Quad

36 Methyl tert-butyl ether, CAS: 1634-04-4

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X24.D

Injection Date: 14-Oct-2024 03:58:30

Instrument ID: 9137

Lims ID: 410-191672-A-4

Lab Sample ID: 410-191672-4

Client ID: HD-MW-115-0/1-0

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 5.000 mL

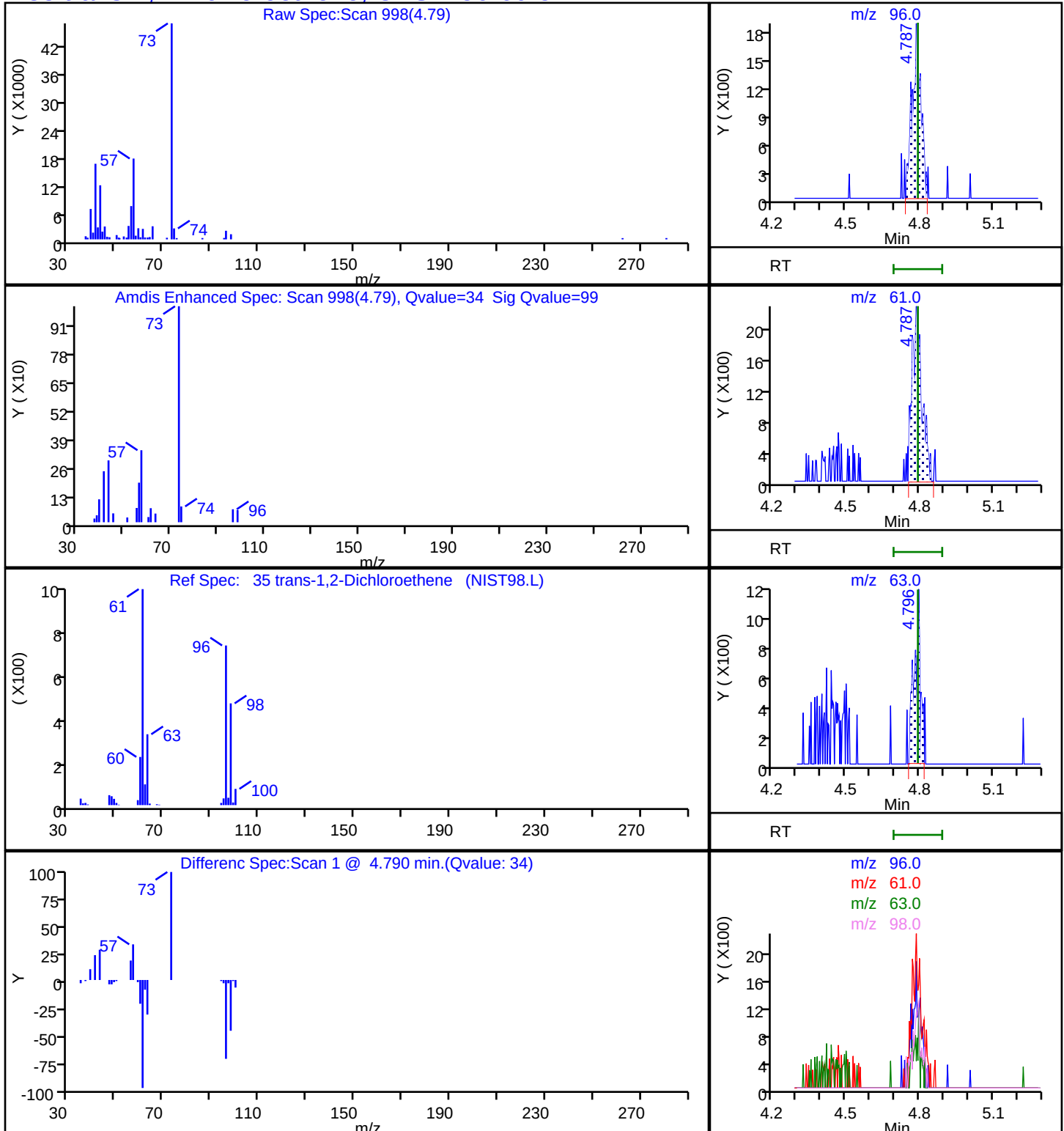
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm ID) x 30 m

MS Quad

35 trans-1,2-Dichloroethene, CAS: 156-60-5

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X24.D

Injection Date: 14-Oct-2024 03:58:30

Instrument ID: 9137

Lims ID: 410-191672-A-4

Lab Sample ID: 410-191672-4

Client ID: HD-MW-115-0/1-0

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 5.000 mL

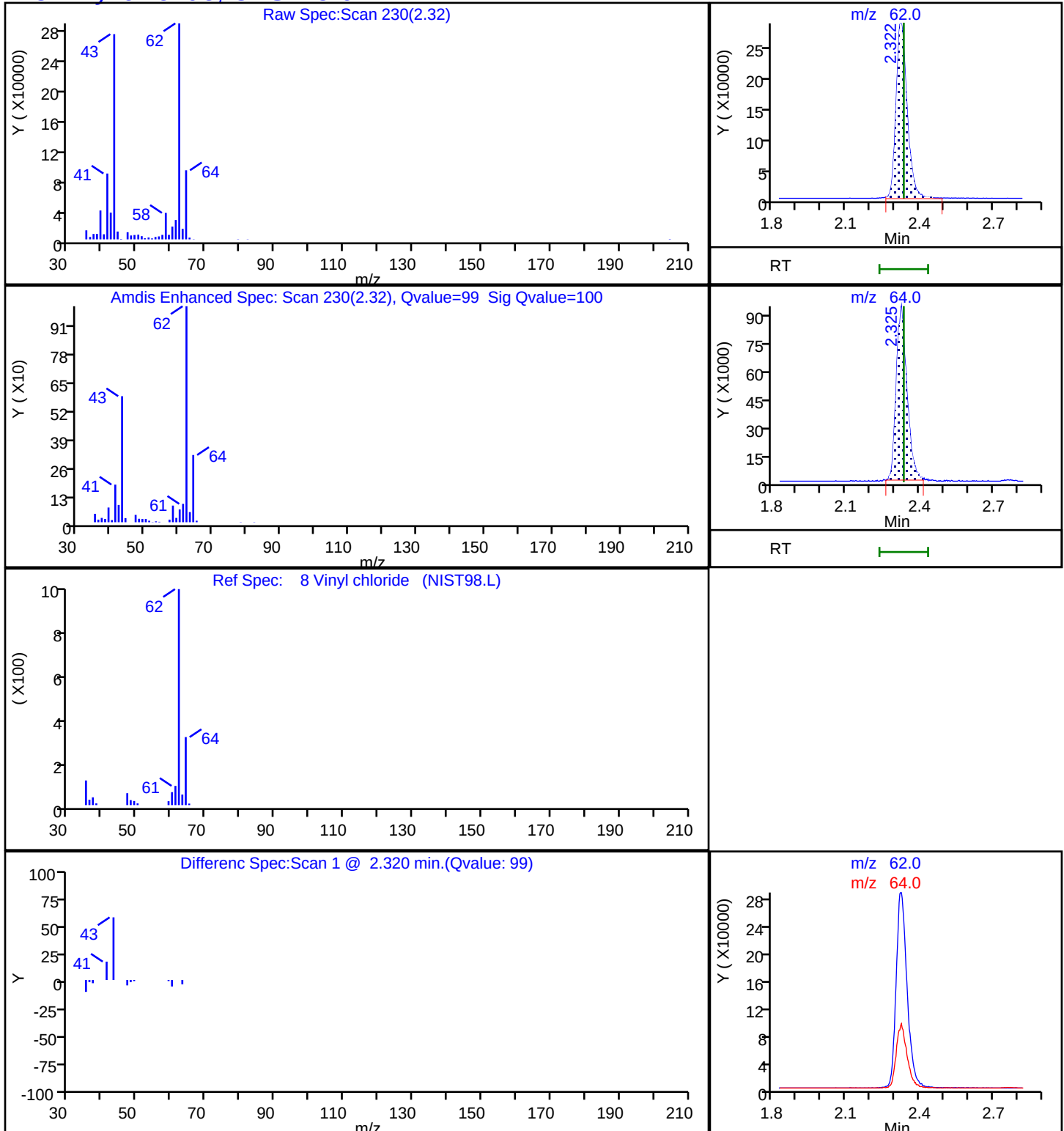
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

8 Vinyl chloride, CAS: 75-01-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X24.D

Injection Date: 14-Oct-2024 03:58:30

Instrument ID: 9137

Lims ID: 410-191672-A-4

Lab Sample ID: 410-191672-4

Client ID: HD-MW-115-0/1-0

Operator ID: gaw91131

ALS Bottle#:

24

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: MSVoa_9137

Limit Group:

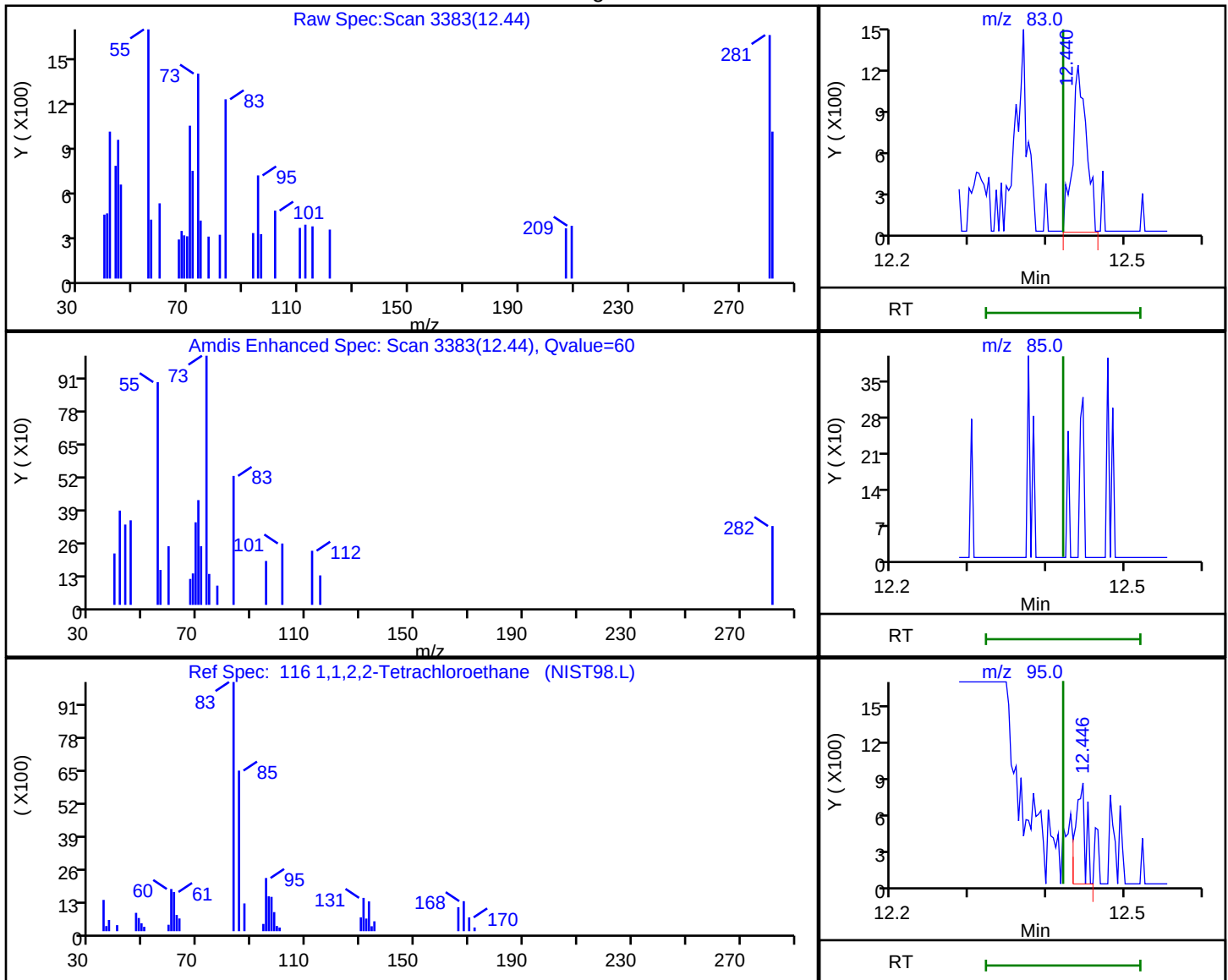
MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

116 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
12.44	83.00	1443	0.159276
12.42	85.00	0	
12.45	95.00	701	
12.42	168.00	0	
12.42	87.00	0	

Reviewer: N9NA, 15-Oct-2024 11:31:38 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X24.D

Injection Date: 14-Oct-2024 03:58:30

Instrument ID: 9137

Lims ID: 410-191672-A-4

Lab Sample ID: 410-191672-4

Client ID: HD-MW-115-0/1-0

Operator ID: gaw91131

ALS Bottle#:

24

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: MSVoa_9137

Limit Group:

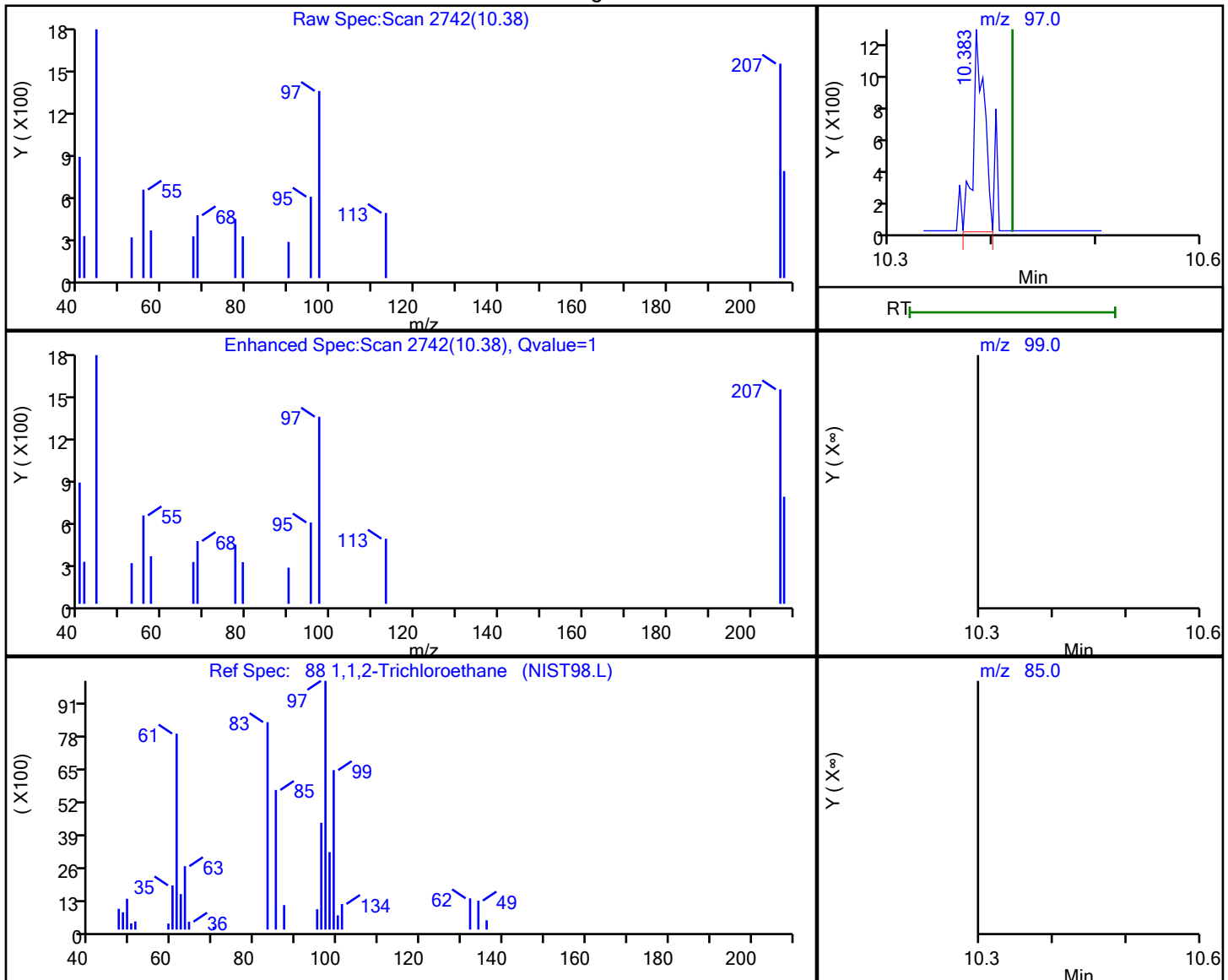
MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

88 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
10.38	97.00	962	0.208173
10.42	99.00	0	
10.42	85.00	0	
10.42	83.00	0	

Reviewer: N9NA, 15-Oct-2024 11:31:24 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X24.D

Injection Date: 14-Oct-2024 03:58:30

Instrument ID: 9137

Lims ID: 410-191672-A-4

Lab Sample ID: 410-191672-4

Client ID: HD-MW-115-0/1-0

Operator ID: gaw91131

ALS Bottle#:

24

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: MSVoa_9137

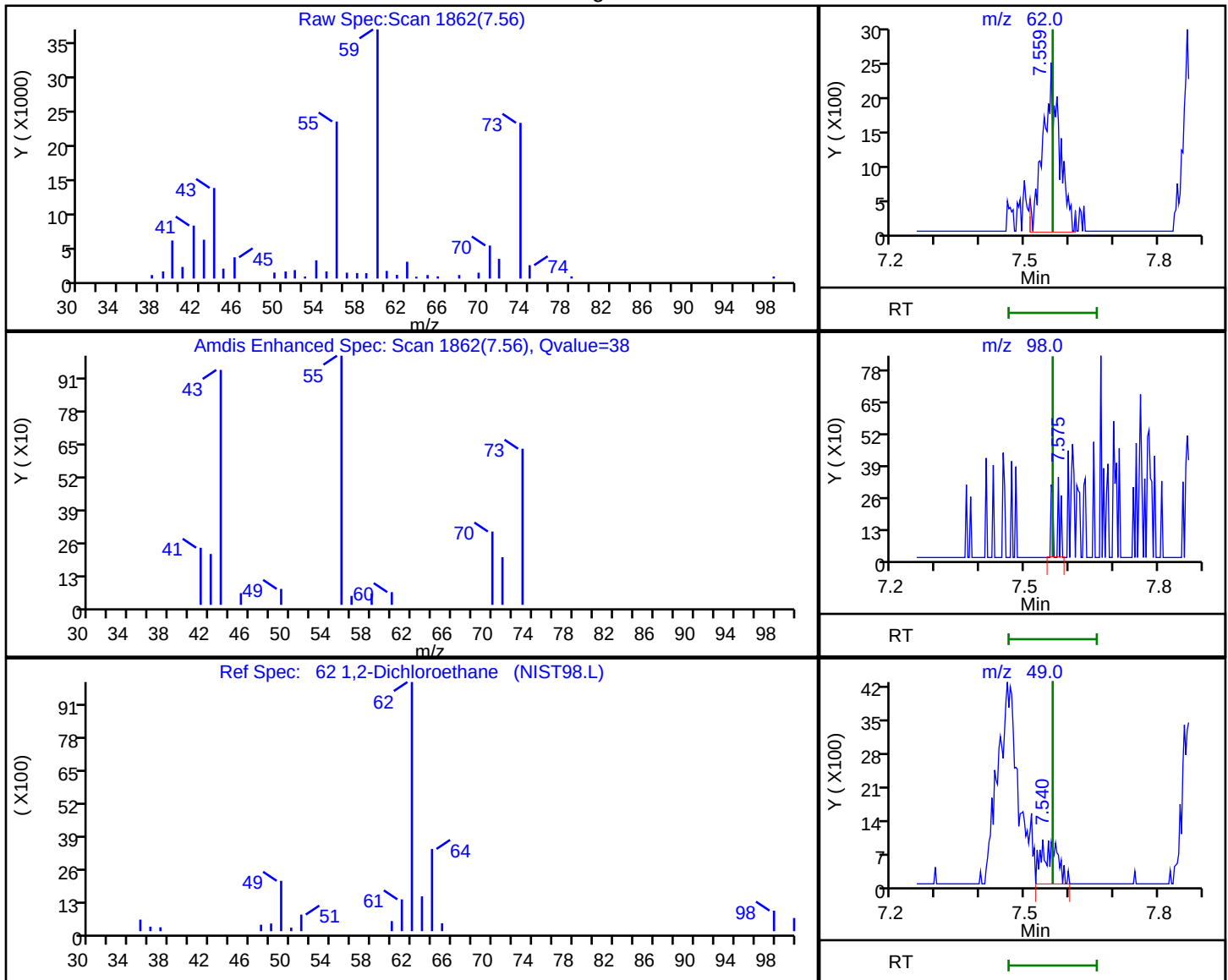
Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

62 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
7.56	62.00	6171	0.984963
7.58	98.00	222	
7.54	49.00	2201	

Reviewer: N9NA, 15-Oct-2024 11:31:13 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X24.D

Injection Date: 14-Oct-2024 03:58:30

Instrument ID: 9137

Lims ID: 410-191672-A-4

Lab Sample ID: 410-191672-4

Client ID: HD-MW-115-0/1-0

Operator ID: gaw91131

ALS Bottle#:

24

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: MSVoa_9137

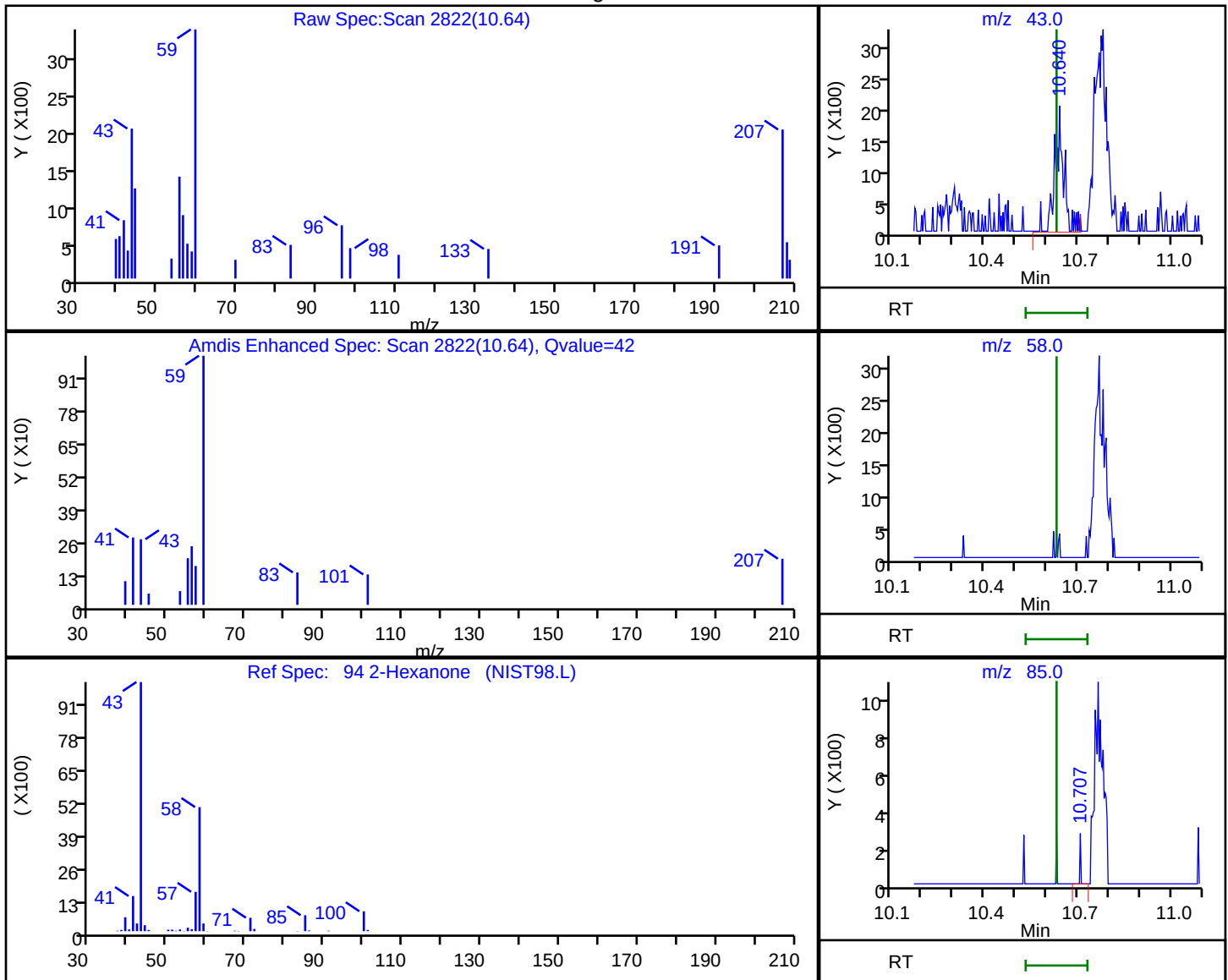
Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

94 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
10.64	43.00	3828	0.645767
10.63	58.00	0	
10.71	85.00	50	
10.63	100.00	0	

Reviewer: N9NA, 15-Oct-2024 11:31:29 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X24.D

Injection Date: 14-Oct-2024 03:58:30

Instrument ID: 9137

Lims ID: 410-191672-A-4

Lab Sample ID: 410-191672-4

Client ID: HD-MW-115-0/1-0

Operator ID: gaw91131

ALS Bottle#:

24

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: MSVoa_9137

Limit Group:

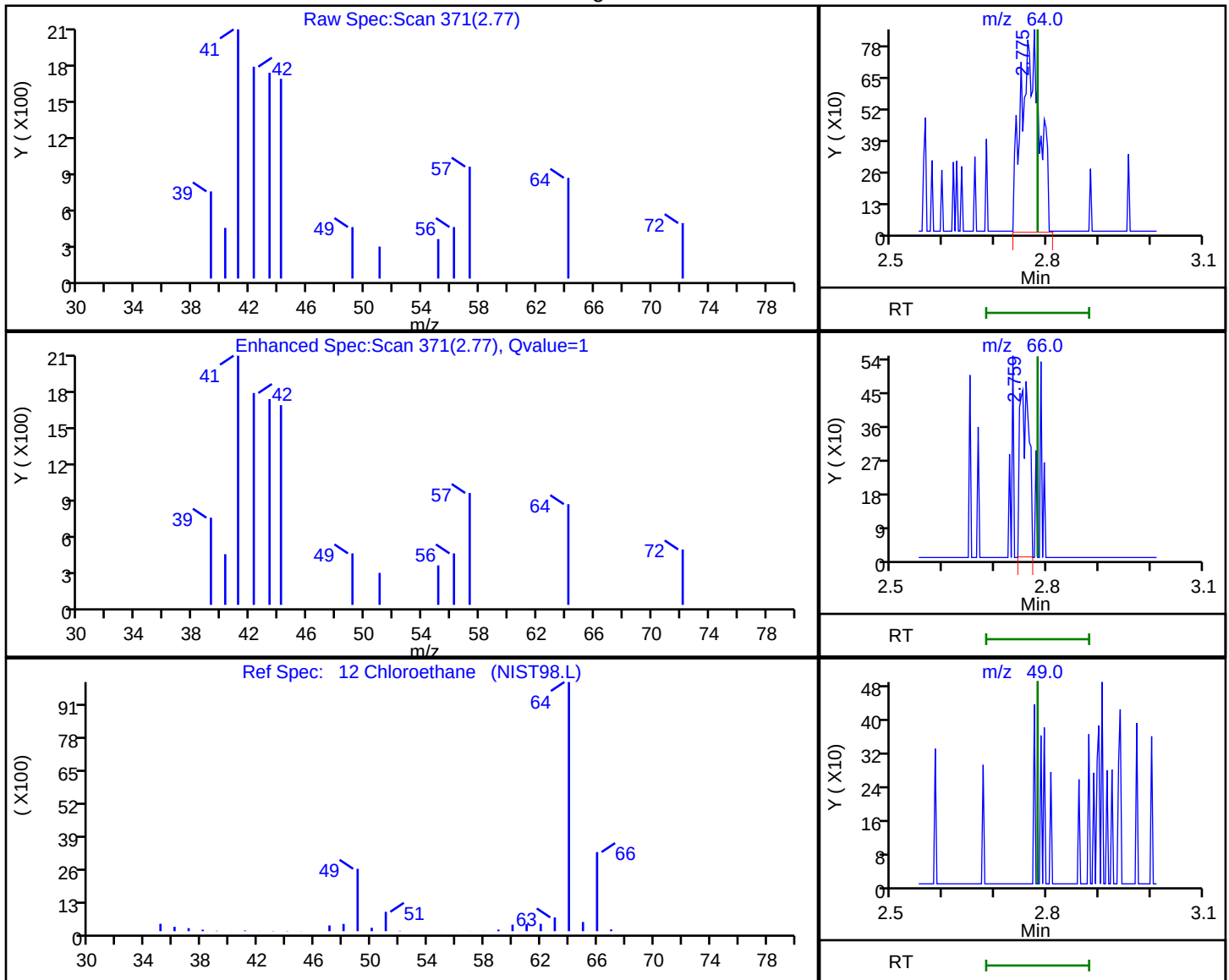
MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

12 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
2.77	64.00	2067	0.407948
2.76	66.00	579	
2.78	49.00	0	

Reviewer: N9NA, 15-Oct-2024 11:30:56 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X24.D

Injection Date: 14-Oct-2024 03:58:30

Instrument ID: 9137

Lims ID: 410-191672-A-4

Lab Sample ID: 410-191672-4

Client ID: HD-MW-115-0/1-0

Operator ID: gaw91131

ALS Bottle#:

24

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: MSVoa_9137

Limit Group:

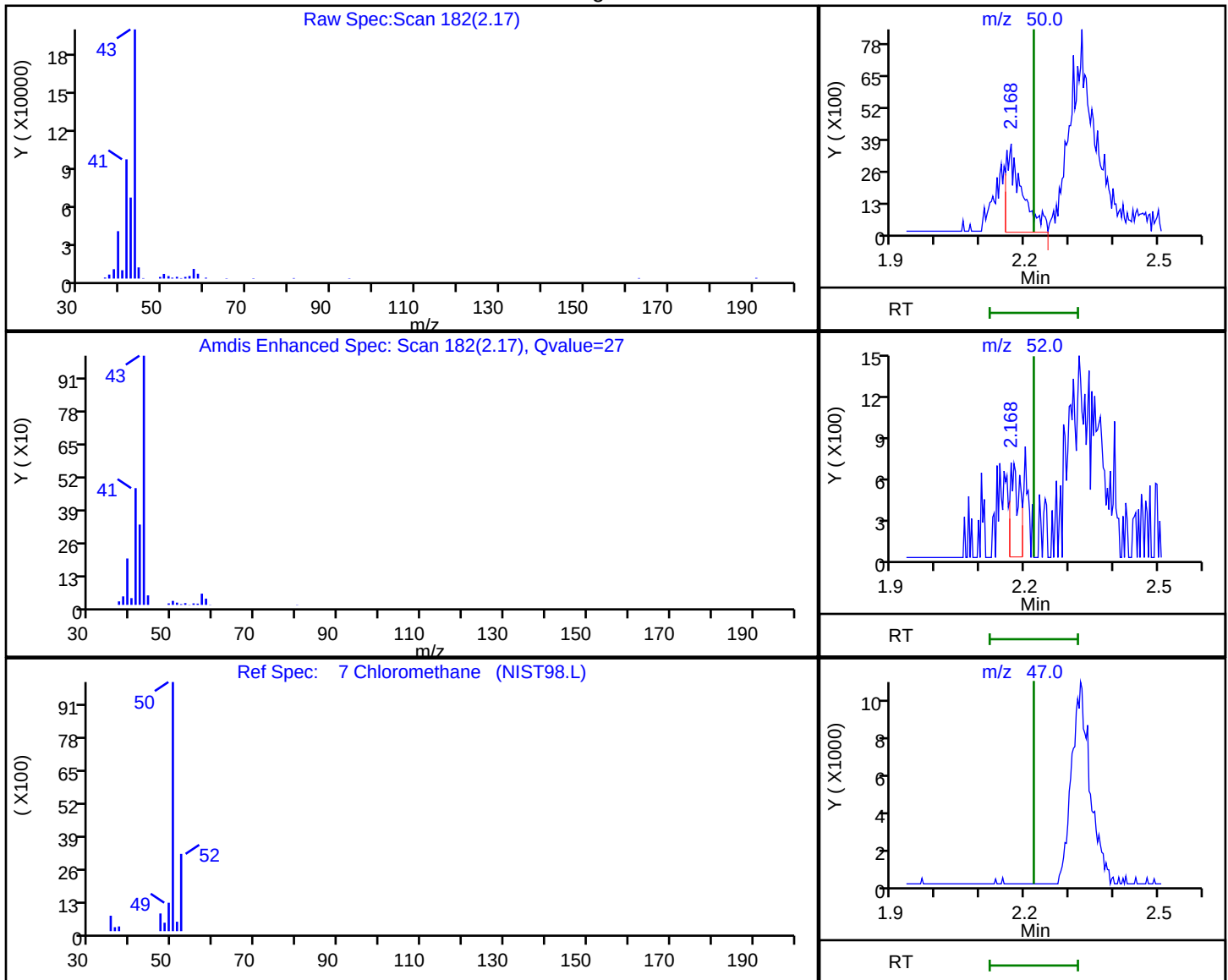
MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

7 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
2.17	50.00	8635	0.846496
2.17	52.00	953	
2.22	47.00	0	

Reviewer: N9NA, 15-Oct-2024 11:30:46 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-MW-142S-0/1-0

Lab Sample ID: 410-191672-5

Matrix: Water

Lab File ID: WC13X25.D

Analysis Method: 8260D

Date Collected: 10/07/2024 12:14

Sample wt/vol: 5 (mL)

Date Analyzed: 10/14/2024 04:20

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 562572

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND	^c cn	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	7.1		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-MW-142S-0/1-0

Lab Sample ID: 410-191672-5

Matrix: Water

Lab File ID: WC13X25.D

Analysis Method: 8260D

Date Collected: 10/07/2024 12:14

Sample wt/vol: 5 (mL)

Date Analyzed: 10/14/2024 04:20

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 562572

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X25.D
 Lims ID: 410-191672-A-5
 Client ID: HD-MW-142S-0/1-0
 Sample Type: Client
 Inject. Date: 14-Oct-2024 04:20:30 ALS Bottle#: 25 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127582-026
 Operator ID: gaw91131 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 15-Oct-2024 11:32:10 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1602

First Level Reviewer: N9NA

Date: 15-Oct-2024 11:32:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
7 Chloromethane	50		2.219				ND	
8 Vinyl chloride	62		2.335				ND	U
11 Bromomethane	94		2.694				ND	
12 Chloroethane	64		2.781				ND	
21 1,1-Dichloroethene	96		3.696				ND	
20 Acetone	58		3.724				ND	
26 Carbon disulfide	76		4.020				ND	
30 Methylene Chloride	84		4.382				ND	
* 32 t-Butyl alcohol-d10 (IS)	65	4.392	4.389	0.003	2	294717	250.0	
35 trans-1,2-Dichloroethene	96		4.793				ND	
36 Methyl tert-butyl ether	73		4.799				ND	
38 1,1-Dichloroethane	63		5.467				ND	
44 2-Butanone (MEK)	43		6.285				ND	7
43 cis-1,2-Dichloroethene	96	6.301	6.304	-0.003	81	38535	7.12	
50 Chlorobromomethane	128		6.638				ND	
52 Chloroform	83		6.786				ND	
\$ 54 Dibromofluoromethane (Surr)	113	6.998	7.001	-0.003	92	243300	53.3	
55 1,1,1-Trichloroethane	97		7.020				ND	
58 Carbon tetrachloride	117		7.219				ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.453	7.460	-0.007	69	60163	50.5	
61 Benzene	78		7.488				ND	7
62 1,2-Dichloroethane	62		7.562				ND	7
* 65 Fluorobenzene (IS)	96	7.890	7.896	-0.006	99	950797	50.0	
68 Trichloroethene	95		8.371				ND	
71 1,2-Dichloropropane	63		8.708				ND	
77 Dichlorobromomethane	83		9.051				ND	
81 cis-1,3-Dichloropropene	75		9.587				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.760				ND	7
\$ 84 Toluene-d8 (Surr)	98	9.886	9.886	0.000	93	934440	49.6	
85 Toluene	92		9.963				ND	7
86 trans-1,3-Dichloropropene	75		10.216				ND	
88 1,1,2-Trichloroethane	97		10.418				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
90 Tetrachloroethene	166		10.498				ND	
94 2-Hexanone	43		10.630				ND	
96 Chlorodibromomethane	129		10.787				ND	
98 Ethylene Dibromide	107		10.900				ND	
S 178 Xylenes, Total	106		11.245				ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.326	-0.003	84	713539	50.0	
102 Chlorobenzene	112		11.352				ND	
104 1,1,1,2-Tetrachloroethane	131		11.432				ND	
105 Ethylbenzene	91		11.435				ND	7
106 m-Xylene & p-Xylene	106		11.548				ND	7
108 o-Xylene	106		11.875				ND	
109 Styrene	104		11.891				ND	
110 Bromoform	173		12.048				ND	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.315	12.318	-0.003	91	336628	47.5	
116 1,1,2,2-Tetrachloroethane	83		12.421				ND	
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.194	0.000	94	408585	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00030

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 15-Oct-2024 11:32:11

Chrom Revision: 2.3 14-Oct-2024 13:34:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X25.D

Injection Date: 14-Oct-2024 04:20:30

Instrument ID: 9137

Operator ID: gaw91131

Lims ID: 410-191672-A-5

Lab Sample ID: 410-191672-5

Worklist Smp#: 26

Client ID: HD-MW-142S-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

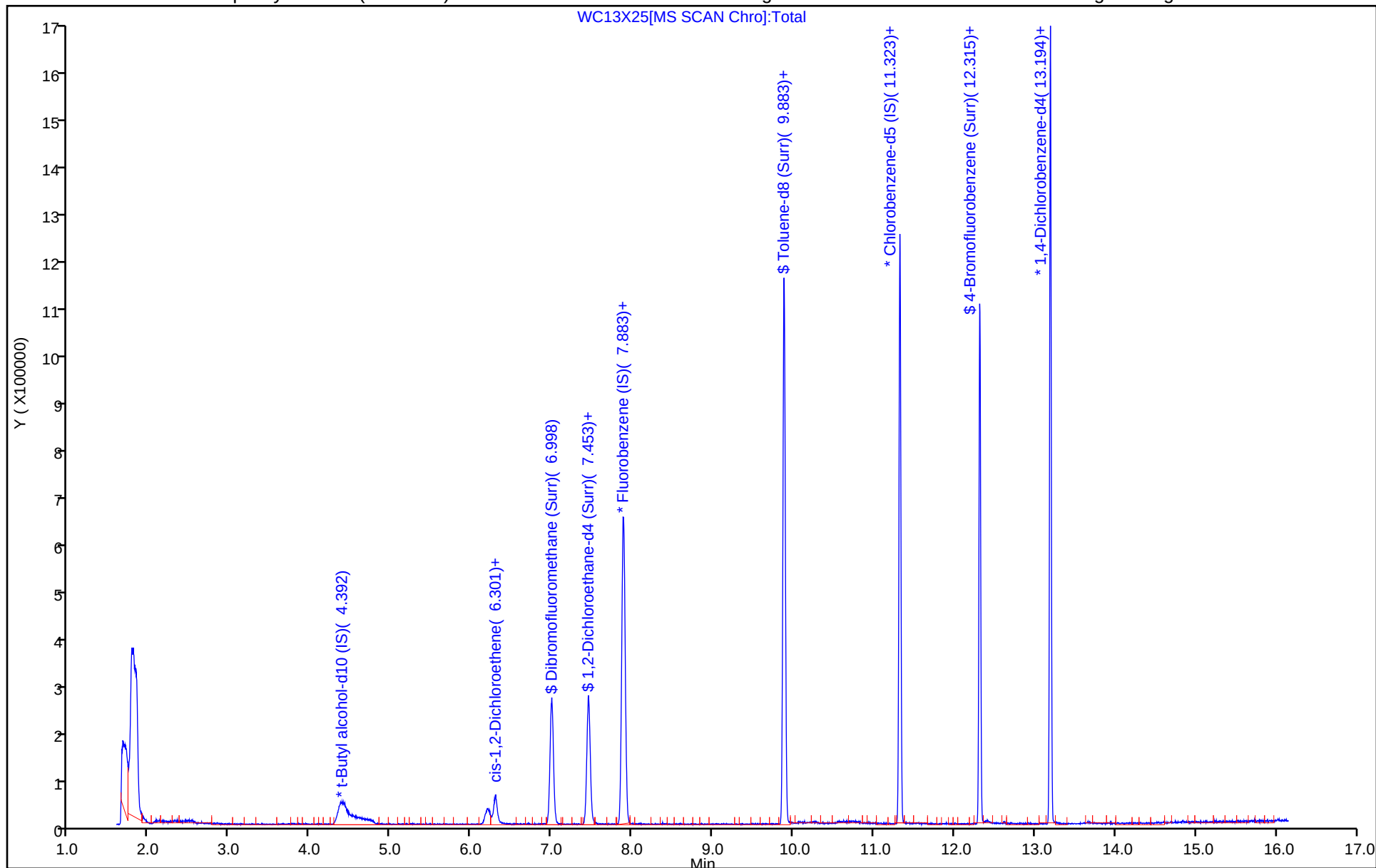
ALS Bottle#: 25

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X25.D
Lims ID: 410-191672-A-5
Client ID: HD-MW-142S-0/1-0
Sample Type: Client
Inject. Date: 14-Oct-2024 04:20:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127582-026
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 15-Oct-2024 11:32:10 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: N9NA

Date: 15-Oct-2024 11:32:10

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	53.3	106.55
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	50.5	100.98
\$ 84 Toluene-d8 (Surr)	50.0	49.6	99.19
\$ 114 4-Bromofluorobenzene (Surr)	50.0	47.5	95.06

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X25.D

Injection Date: 14-Oct-2024 04:20:30

Instrument ID: 9137

Lims ID: 410-191672-A-5

Lab Sample ID: 410-191672-5

Client ID: HD-MW-142S-0/1-0

Operator ID: gaw91131

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 5.000 mL

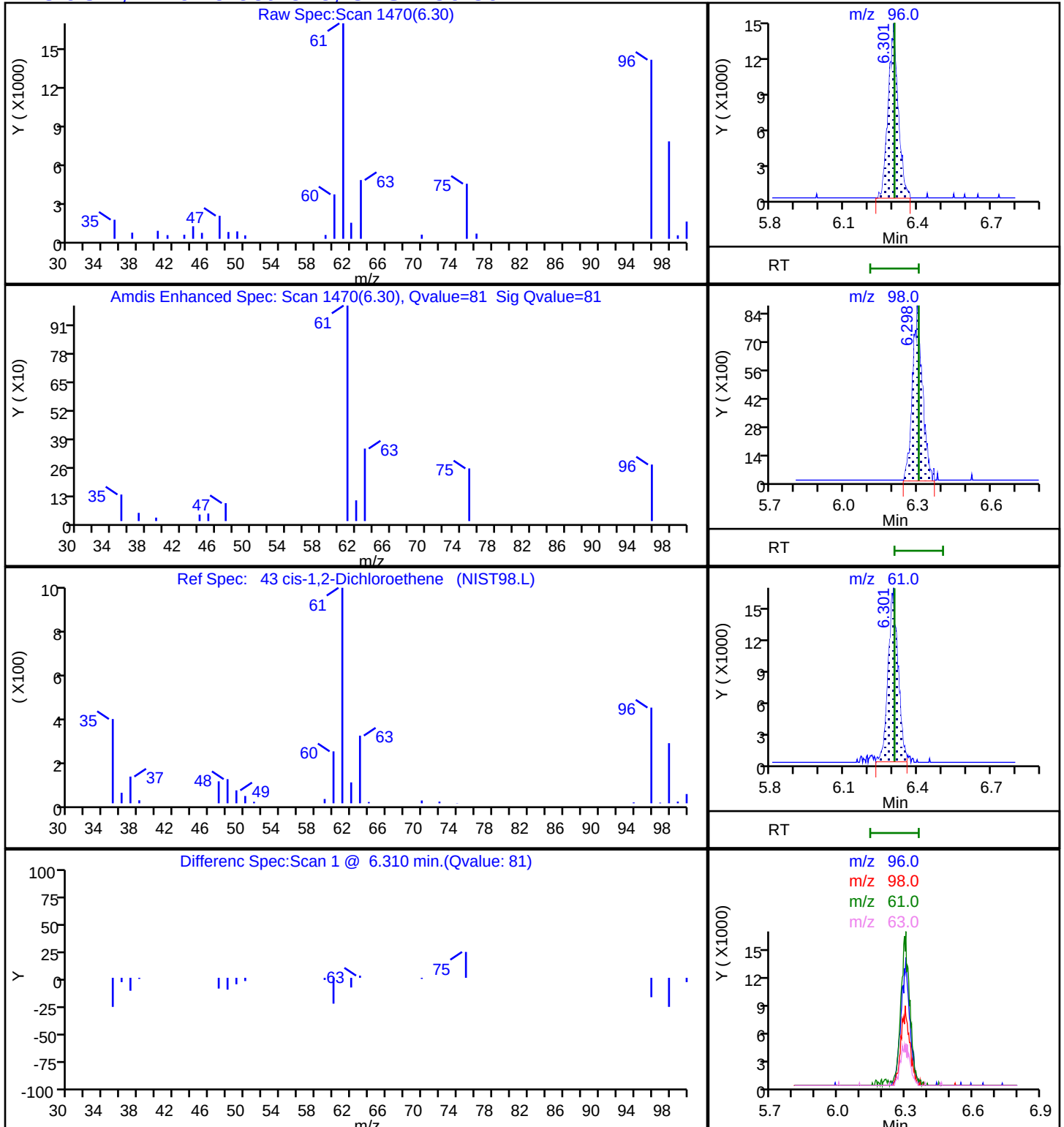
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X25.D

Injection Date: 14-Oct-2024 04:20:30

Instrument ID: 9137

Lims ID: 410-191672-A-5

Lab Sample ID: 410-191672-5

Client ID: HD-MW-142S-0/1-0

Operator ID: gaw91131

ALS Bottle#:

25

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: MSVoa_9137

Limit Group:

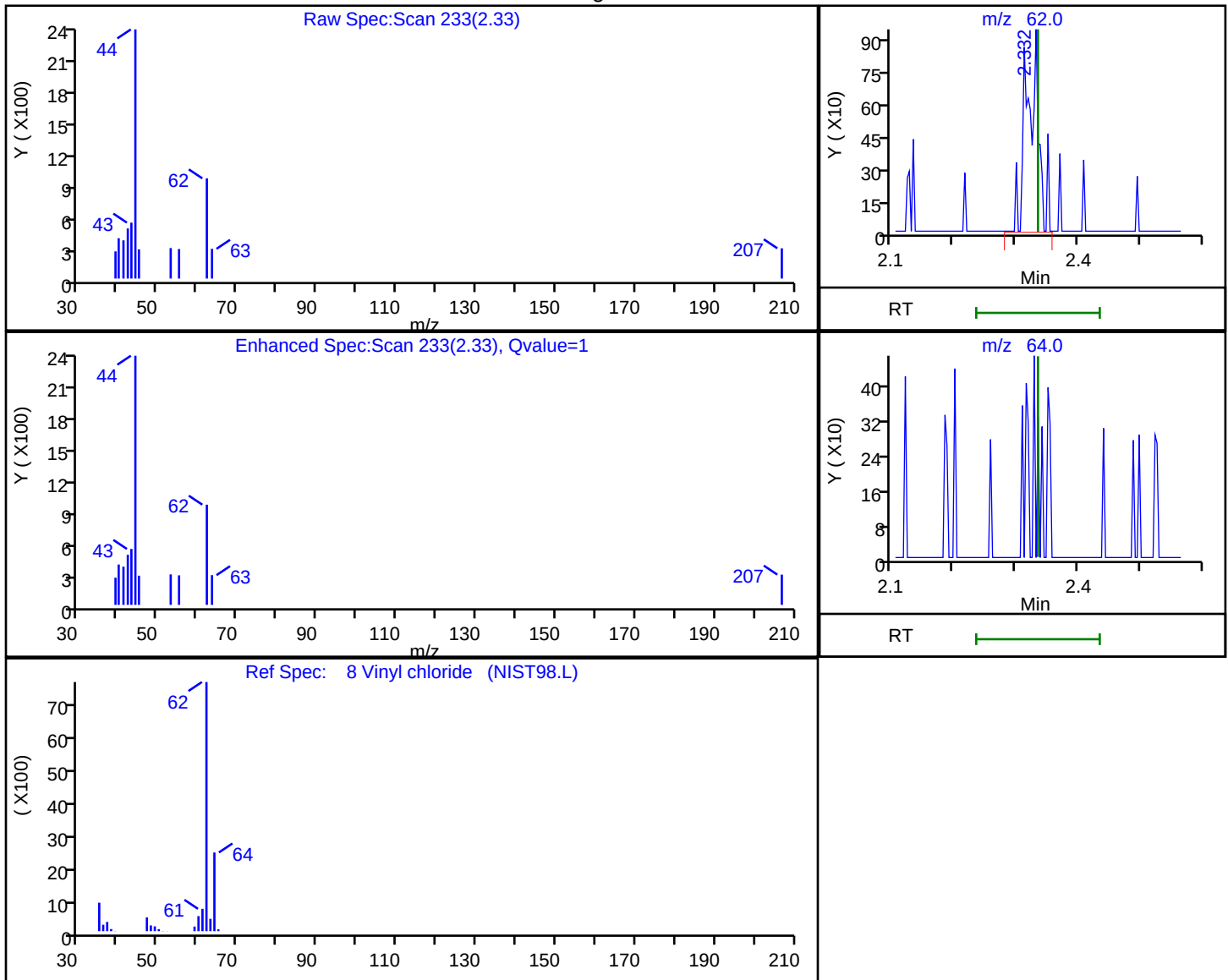
MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

8 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
2.33	62.00	1297	0.126973
2.33	64.00	0	

Reviewer: N9NA, 15-Oct-2024 11:31:57 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-MW-143S-0/1-0

Lab Sample ID: 410-191672-6

Matrix: Water

Lab File ID: WC13X26.D

Analysis Method: 8260D

Date Collected: 10/07/2024 10:40

Sample wt/vol: 5 (mL)

Date Analyzed: 10/14/2024 04:42

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 562572

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND	^c cn	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	0.82	J	1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-MW-143S-0/1-0

Lab Sample ID: 410-191672-6

Matrix: Water

Lab File ID: WC13X26.D

Analysis Method: 8260D

Date Collected: 10/07/2024 10:40

Sample wt/vol: 5 (mL)

Date Analyzed: 10/14/2024 04:42

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 562572

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X26.D
 Lims ID: 410-191672-A-6
 Client ID: HD-MW-143S-0/1-0
 Sample Type: Client
 Inject. Date: 14-Oct-2024 04:42:30 ALS Bottle#: 26 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127582-027
 Operator ID: gaw91131 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 15-Oct-2024 11:32:43 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1602

First Level Reviewer: N9NA

Date: 15-Oct-2024 11:32:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
7 Chloromethane	50		2.219				ND	
8 Vinyl chloride	62		2.335				ND	
11 Bromomethane	94		2.694				ND	
12 Chloroethane	64		2.781				ND	
21 1,1-Dichloroethene	96		3.696				ND	
20 Acetone	58		3.724				ND	
26 Carbon disulfide	76		4.020				ND	
30 Methylene Chloride	84		4.382				ND	
* 32 t-Butyl alcohol-d10 (IS)	65	4.385	4.389	-0.004	5	290782	250.0	
35 trans-1,2-Dichloroethene	96		4.793				ND	
36 Methyl tert-butyl ether	73		4.799				ND	
38 1,1-Dichloroethane	63		5.467				ND	
44 2-Butanone (MEK)	43		6.285				ND	U
43 cis-1,2-Dichloroethene	96		6.304				ND	
50 Chlorobromomethane	128		6.638				ND	
52 Chloroform	83		6.786				ND	
\$ 54 Dibromofluoromethane (Surr)	113	6.998	7.001	-0.003	93	236465	53.6	
55 1,1,1-Trichloroethane	97		7.020				ND	
58 Carbon tetrachloride	117		7.219				ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.463	7.460	0.003	69	58890	51.2	
61 Benzene	78		7.488				ND	
62 1,2-Dichloroethane	62		7.562				ND	
* 65 Fluorobenzene (IS)	96	7.890	7.896	-0.006	99	918438	50.0	
68 Trichloroethene	95		8.371				ND	7
71 1,2-Dichloropropane	63		8.708				ND	
77 Dichlorobromomethane	83		9.051				ND	
81 cis-1,3-Dichloropropene	75		9.587				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.760				ND	7
\$ 84 Toluene-d8 (Surr)	98	9.882	9.886	-0.004	93	905908	50.2	
85 Toluene	92		9.963				ND	7
86 trans-1,3-Dichloropropene	75		10.216				ND	
88 1,1,2-Trichloroethane	97		10.418				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
90 Tetrachloroethene	166	10.498	10.498	0.000	94	4059	0.8182	
94 2-Hexanone	43		10.630				ND	
96 Chlorodibromomethane	129		10.787				ND	
98 Ethylene Dibromide	107		10.900				ND	
S 178 Xylenes, Total	106		11.245				ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.326	11.326	0.000	85	682913	50.0	
102 Chlorobenzene	112		11.352				ND	
104 1,1,1,2-Tetrachloroethane	131		11.432				ND	
105 Ethylbenzene	91		11.435				ND	7
106 m-Xylene & p-Xylene	106		11.548				ND	
108 o-Xylene	106		11.875				ND	7
109 Styrene	104		11.891				ND	
110 Bromoform	173		12.048				ND	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.318	12.318	0.000	90	324396	47.9	
116 1,1,2,2-Tetrachloroethane	83		12.421				ND	
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.194	0.000	95	387566	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00030

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 15-Oct-2024 11:32:44

Chrom Revision: 2.3 14-Oct-2024 13:34:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X26.D

Injection Date: 14-Oct-2024 04:42:30

Instrument ID: 9137

Operator ID: gaw91131

Lims ID: 410-191672-A-6

Lab Sample ID: 410-191672-6

Worklist Smp#: 27

Client ID: HD-MW-143S-0/1-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

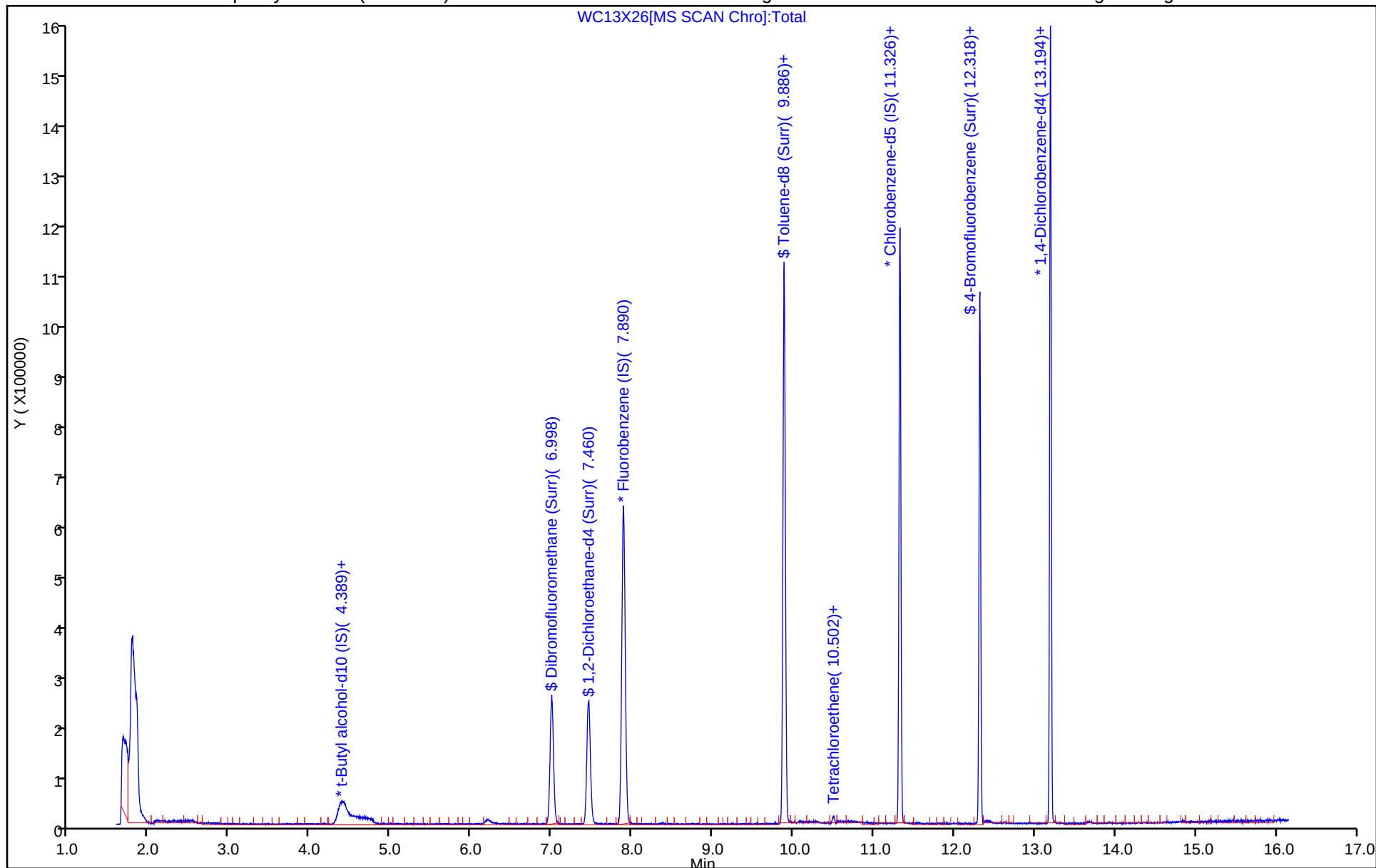
ALS Bottle#: 26

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X26.D
Lims ID: 410-191672-A-6
Client ID: HD-MW-143S-0/1-0
Sample Type: Client
Inject. Date: 14-Oct-2024 04:42:30 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127582-027
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 15-Oct-2024 11:32:43 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: N9NA

Date: 15-Oct-2024 11:32:43

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	53.6	107.20
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	51.2	102.33
\$ 84 Toluene-d8 (Surr)	50.0	50.2	100.47
\$ 114 4-Bromofluorobenzene (Surr)	50.0	47.9	95.71

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X26.D

Injection Date: 14-Oct-2024 04:42:30

Instrument ID: 9137

Lims ID: 410-191672-A-6

Lab Sample ID: 410-191672-6

Client ID: HD-MW-143S-0/1-0

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

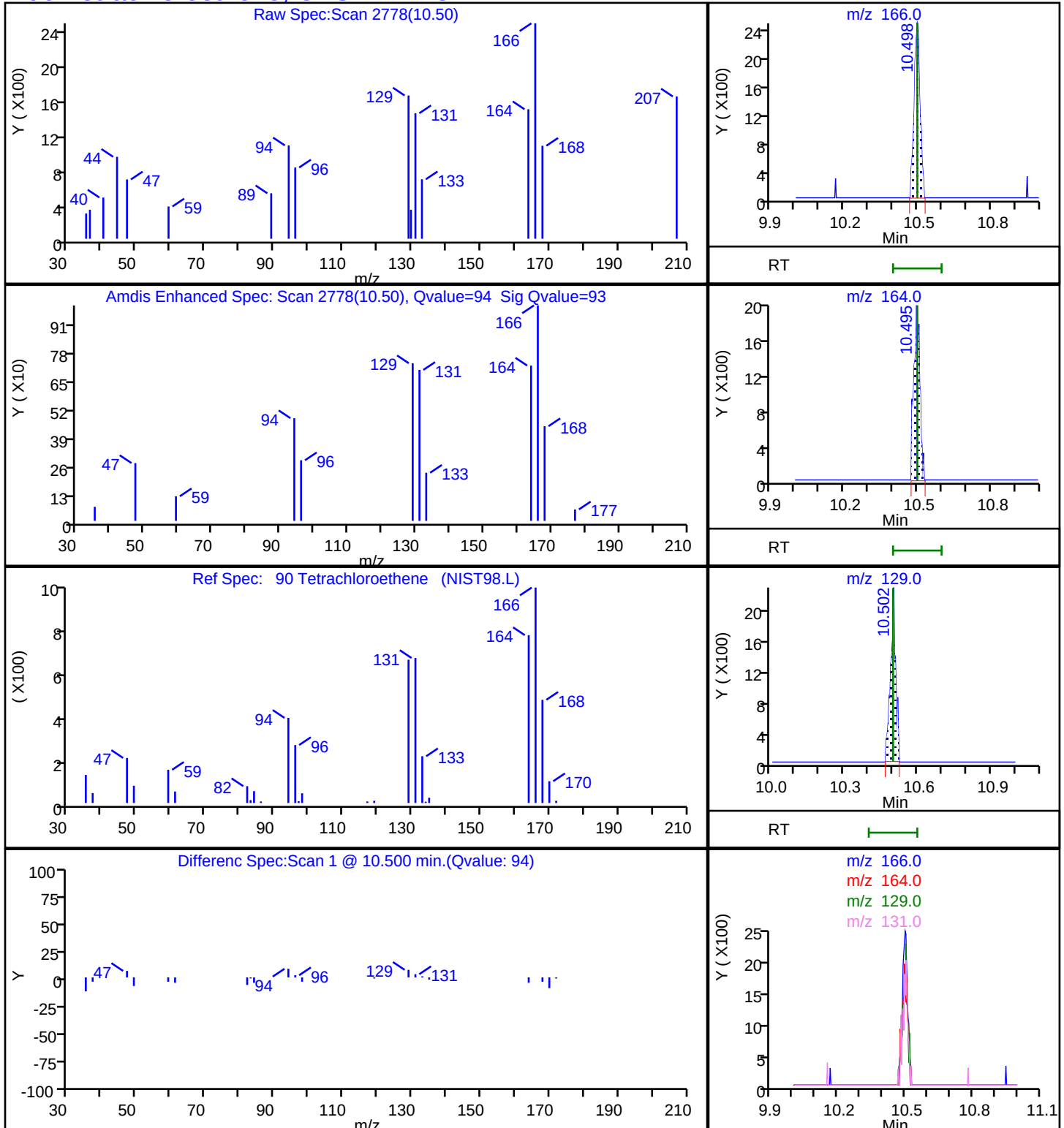
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

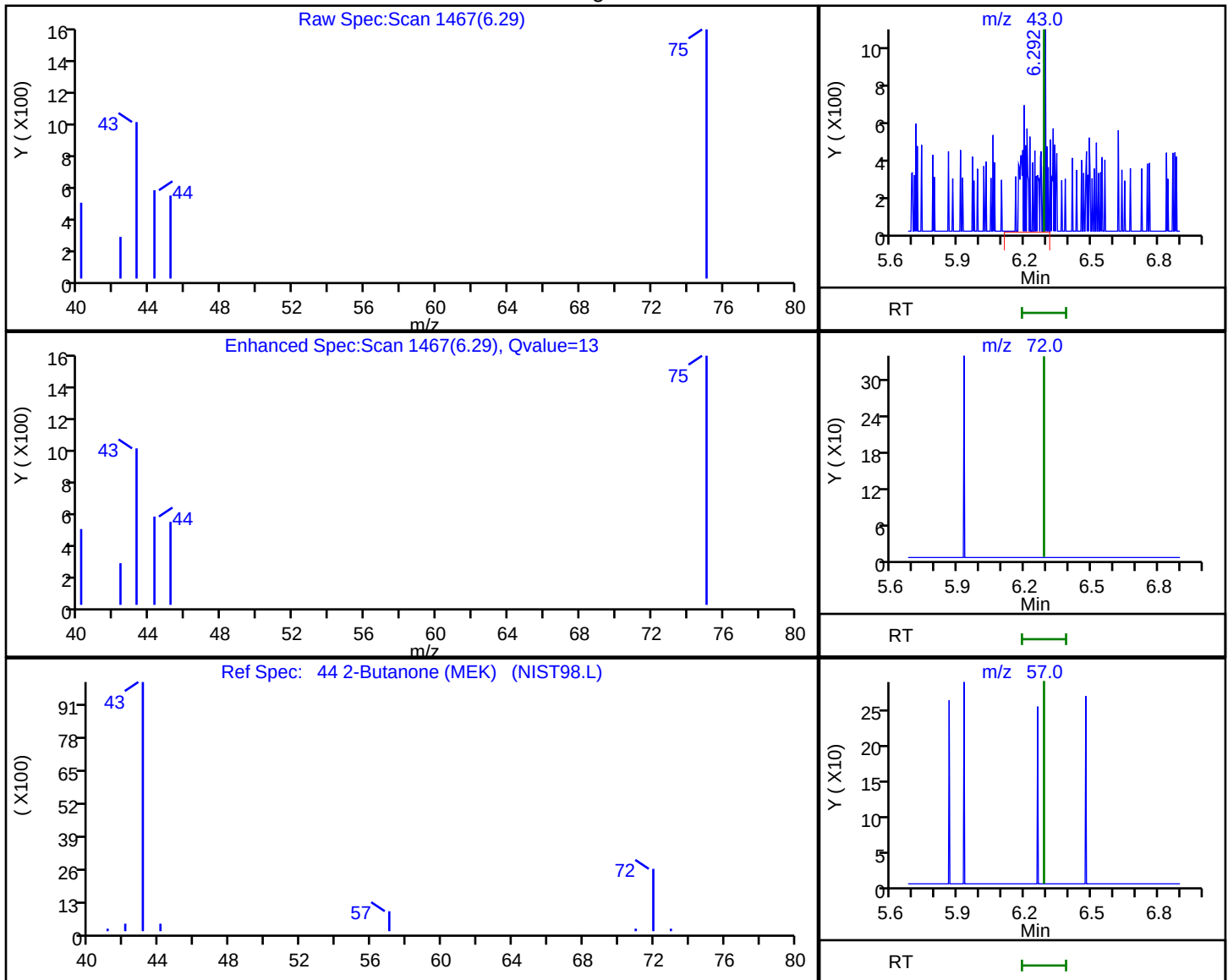
90 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X26.D
Injection Date: 14-Oct-2024 04:42:30 Instrument ID: 9137
Lims ID: 410-191672-A-6 Lab Sample ID: 410-191672-6
Client ID: HD-MW-143S-0/1-0
Operator ID: gaw91131 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.29	43.00	1943	0.444357
6.29	72.00	0	
6.29	57.00	0	

Reviewer: N9NA, 15-Oct-2024 11:32:31 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-MW-148A-72.5/73-0

Lab Sample ID: 410-191672-7

Matrix: Water

Lab File ID: WC13X27.D

Analysis Method: 8260D

Date Collected: 10/07/2024 14:00

Sample wt/vol: 5 (mL)

Date Analyzed: 10/14/2024 05:04

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 562572

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND	^c cn	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-MW-148A-72.5/73-0

Lab Sample ID: 410-191672-7

Matrix: Water

Lab File ID: WC13X27.D

Analysis Method: 8260D

Date Collected: 10/07/2024 14:00

Sample wt/vol: 5 (mL)

Date Analyzed: 10/14/2024 05:04

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 562572

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X27.D
 Lims ID: 410-191672-A-7
 Client ID: HD-MW-148A-72.5/73-0
 Sample Type: Client
 Inject. Date: 14-Oct-2024 05:04:30 ALS Bottle#: 27 Worklist Smp#: 28
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127582-028
 Operator ID: gaw91131 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 15-Oct-2024 11:33:18 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1602

First Level Reviewer: N9NA

Date: 15-Oct-2024 11:33:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
7 Chloromethane	50		2.219				ND	
8 Vinyl chloride	62		2.335				ND	
11 Bromomethane	94		2.694				ND	
12 Chloroethane	64		2.781				ND	
21 1,1-Dichloroethene	96		3.696				ND	
20 Acetone	58		3.724				ND	
26 Carbon disulfide	76		4.020				ND	
30 Methylene Chloride	84		4.382				ND	
* 32 t-Butyl alcohol-d10 (IS)	65	4.414	4.389	0.025	1	292574	250.0	
35 trans-1,2-Dichloroethene	96		4.793				ND	
36 Methyl tert-butyl ether	73		4.799				ND	
38 1,1-Dichloroethane	63		5.467				ND	
44 2-Butanone (MEK)	43		6.285				ND	U
43 cis-1,2-Dichloroethene	96		6.304				ND	
50 Chlorobromomethane	128		6.638				ND	
52 Chloroform	83		6.786				ND	
\$ 54 Dibromofluoromethane (Surr)	113	7.001	7.001	0.000	93	244920	53.8	
55 1,1,1-Trichloroethane	97		7.020				ND	
58 Carbon tetrachloride	117		7.219				ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.456	7.460	-0.004	69	61065	51.4	
61 Benzene	78		7.488				ND	
62 1,2-Dichloroethane	62		7.562				ND	7
* 65 Fluorobenzene (IS)	96	7.886	7.896	-0.010	99	948063	50.0	
68 Trichloroethene	95		8.371				ND	
71 1,2-Dichloropropane	63		8.708				ND	
77 Dichlorobromomethane	83		9.051				ND	
81 cis-1,3-Dichloropropene	75		9.587				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.760				ND	7
\$ 84 Toluene-d8 (Surr)	98	9.886	9.886	0.000	93	935273	49.9	
85 Toluene	92		9.963				ND	
86 trans-1,3-Dichloropropene	75		10.216				ND	
88 1,1,2-Trichloroethane	97		10.418				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
90 Tetrachloroethene	166		10.498				ND	
94 2-Hexanone	43		10.630				ND	U
96 Chlorodibromomethane	129		10.787				ND	
98 Ethylene Dibromide	107		10.900				ND	
S 178 Xylenes, Total	106		11.245				ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.326	-0.003	85	709630	50.0	
102 Chlorobenzene	112		11.352				ND	7
104 1,1,1,2-Tetrachloroethane	131		11.432				ND	
105 Ethylbenzene	91		11.435				ND	7
106 m-Xylene & p-Xylene	106		11.548				ND	7
108 o-Xylene	106		11.875				ND	
109 Styrene	104		11.891				ND	
110 Bromoform	173		12.048				ND	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.318	12.318	0.000	91	336461	47.8	
116 1,1,2,2-Tetrachloroethane	83		12.421				ND	
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.194	0.000	95	401622	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00030

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 15-Oct-2024 11:33:18

Chrom Revision: 2.3 14-Oct-2024 13:34:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X27.D

Injection Date: 14-Oct-2024 05:04:30

Instrument ID: 9137

Operator ID: gaw91131

Lims ID: 410-191672-A-7

Lab Sample ID: 410-191672-7

Worklist Smp#: 28

Client ID: HD-MW-148A-72.5/73-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

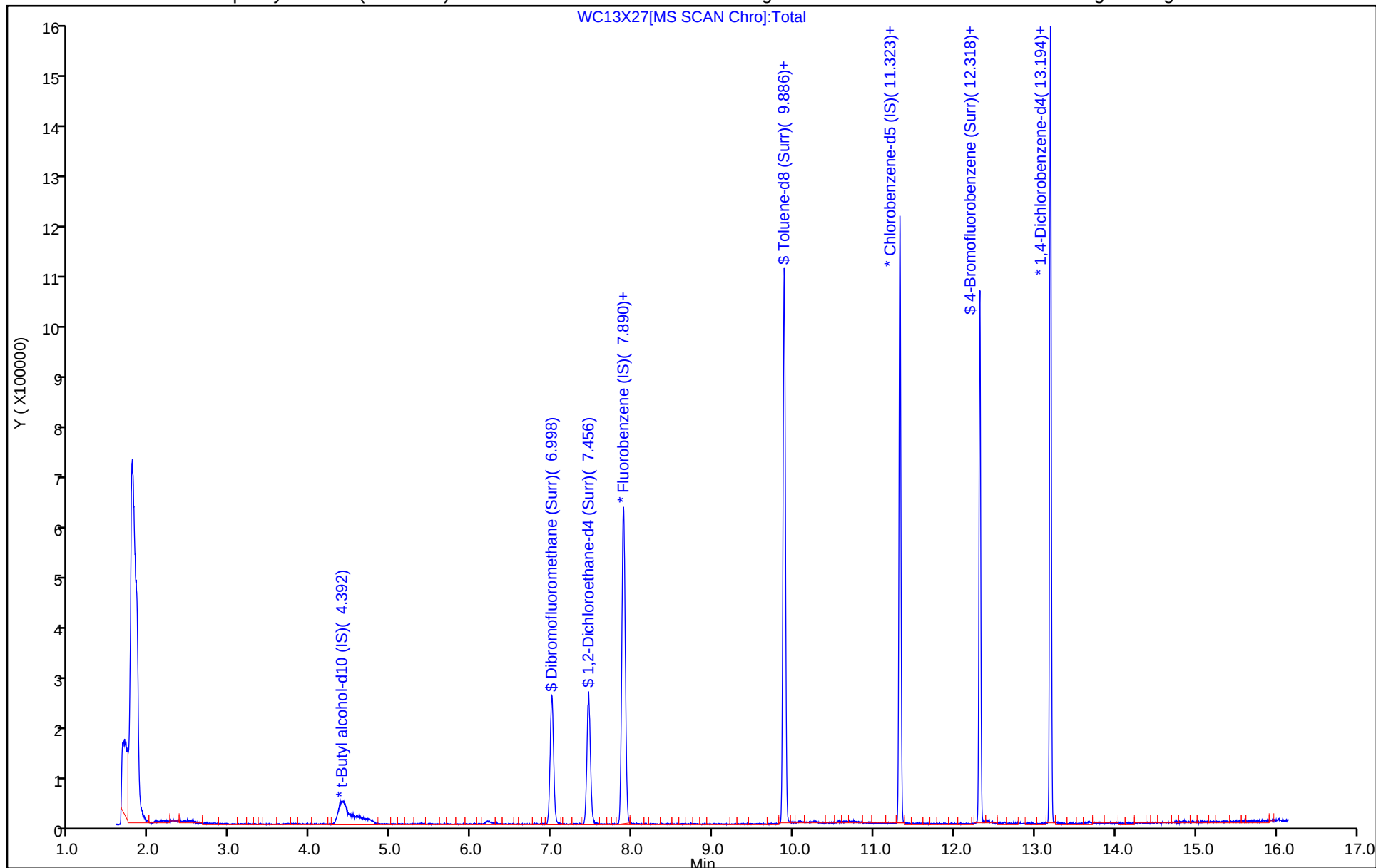
ALS Bottle#: 27

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X27.D
Lims ID: 410-191672-A-7
Client ID: HD-MW-148A-72.5/73-0
Sample Type: Client
Inject. Date: 14-Oct-2024 05:04:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127582-028
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 15-Oct-2024 11:33:18 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: N9NA

Date: 15-Oct-2024 11:33:18

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	53.8	107.57
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	51.4	102.79
\$ 84 Toluene-d8 (Surr)	50.0	49.9	99.82
\$ 114 4-Bromofluorobenzene (Surr)	50.0	47.8	95.53

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X27.D

Injection Date: 14-Oct-2024 05:04:30

Instrument ID: 9137

Lims ID: 410-191672-A-7

Lab Sample ID: 410-191672-7

Client ID: HD-MW-148A-72.5/73-0

Operator ID: gaw91131

ALS Bottle#:

27

Worklist Smp#: 28

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: MSVoa_9137

Limit Group:

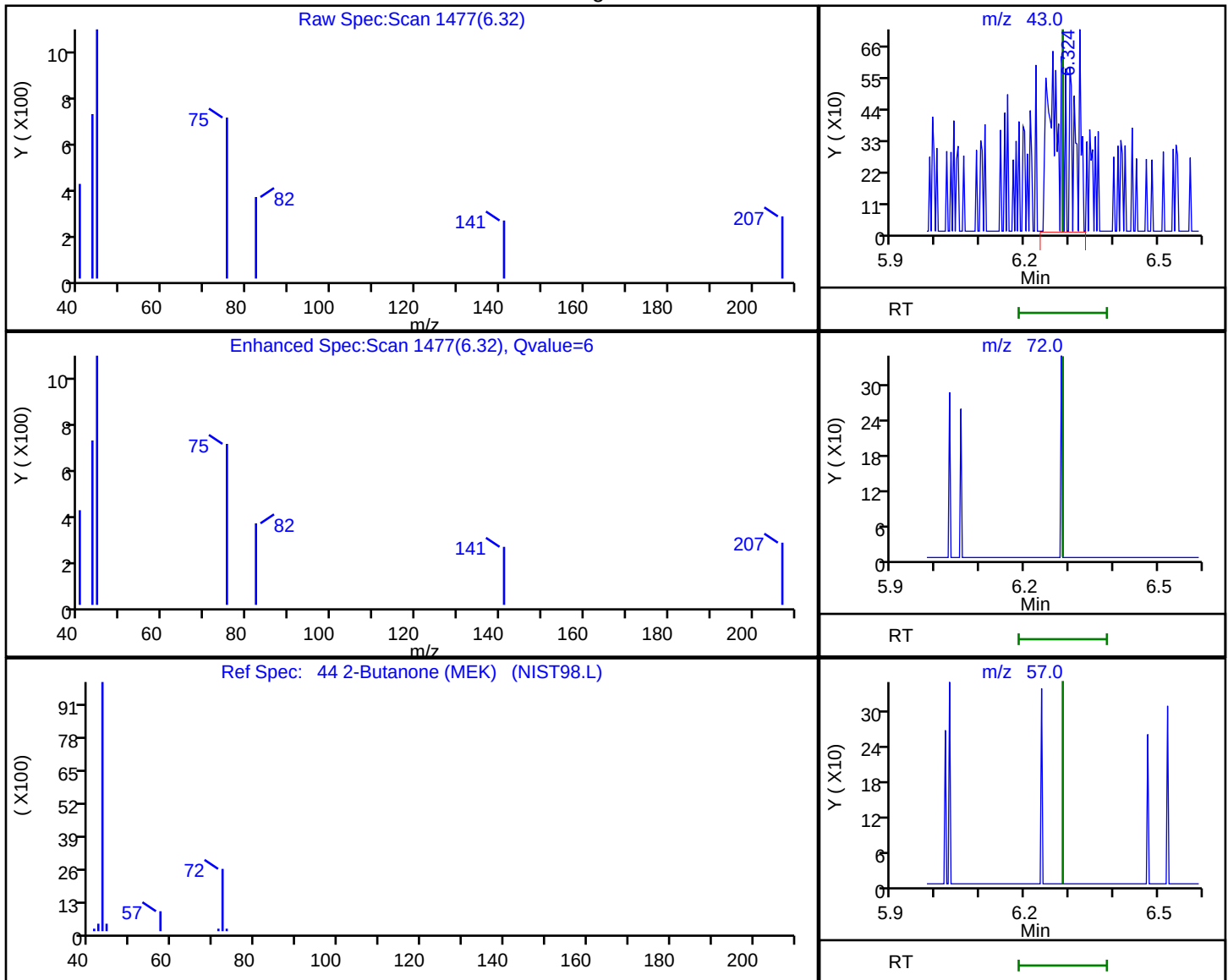
MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.32	43.00	1899	0.420723
6.29	72.00	0	
6.29	57.00	0	

Reviewer: N9NA, 15-Oct-2024 11:33:05 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X27.D

Injection Date: 14-Oct-2024 05:04:30

Instrument ID: 9137

Lims ID: 410-191672-A-7

Lab Sample ID: 410-191672-7

Client ID: HD-MW-148A-72.5/73-0

Operator ID: gaw91131

ALS Bottle#: 27

Worklist Smp#: 28

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: MSVoa_9137

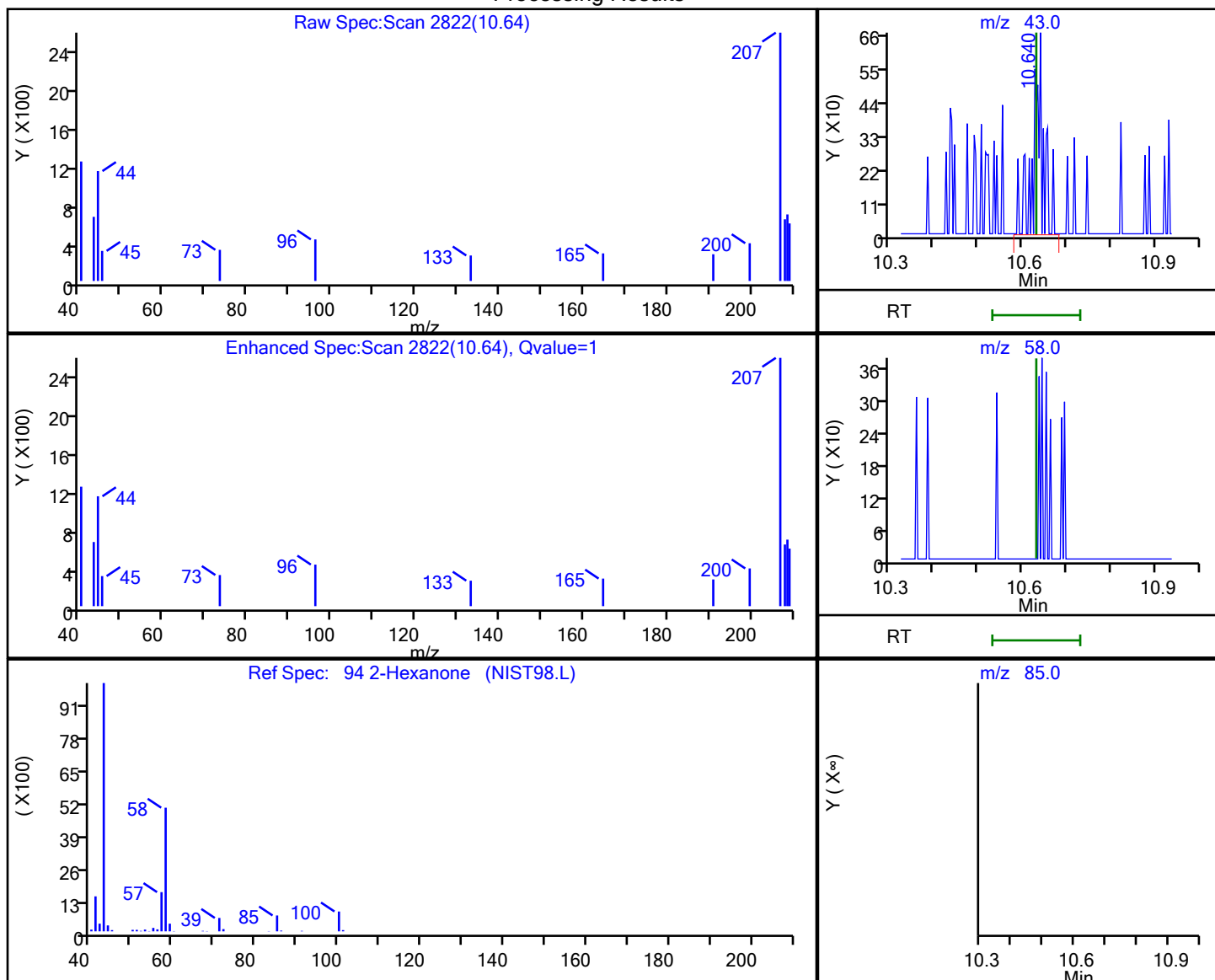
Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

94 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
10.64	43.00	958	0.158275
10.63	58.00	0	
10.63	85.00	0	
10.63	100.00	0	

Reviewer: N9NA, 15-Oct-2024 11:33:13 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-MW-148A-136/136.5-0

Lab Sample ID: 410-191672-8

Matrix: Water

Lab File ID: WC13X28.D

Analysis Method: 8260D

Date Collected: 10/07/2024 12:40

Sample wt/vol: 5(mL)

Date Analyzed: 10/14/2024 05:26

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 562572

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND	^c cn	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-MW-148A-136/136.5-0

Lab Sample ID: 410-191672-8

Matrix: Water

Lab File ID: WC13X28.D

Analysis Method: 8260D

Date Collected: 10/07/2024 12:40

Sample wt/vol: 5 (mL)

Date Analyzed: 10/14/2024 05:26

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 562572

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X28.D
 Lims ID: 410-191672-A-8
 Client ID: HD-MW-148A-136/136.5-0
 Sample Type: Client
 Inject. Date: 14-Oct-2024 05:26:30 ALS Bottle#: 28 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127582-029
 Operator ID: gaw91131 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 15-Oct-2024 11:33:45 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1602

First Level Reviewer: N9NA

Date: 15-Oct-2024 11:33:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
7 Chloromethane	50		2.219				ND	
8 Vinyl chloride	62		2.335				ND	
11 Bromomethane	94		2.694				ND	
12 Chloroethane	64		2.781				ND	
21 1,1-Dichloroethene	96		3.696				ND	
20 Acetone	58		3.724				ND	7
26 Carbon disulfide	76		4.020				ND	7
30 Methylene Chloride	84		4.382				ND	
* 32 t-Butyl alcohol-d10 (IS)	65	4.414	4.389	0.025	57	282910	250.0	
35 trans-1,2-Dichloroethene	96		4.793				ND	
36 Methyl tert-butyl ether	73		4.799				ND	
38 1,1-Dichloroethane	63		5.467				ND	
44 2-Butanone (MEK)	43		6.285				ND	U
43 cis-1,2-Dichloroethene	96		6.304				ND	
50 Chlorobromomethane	128		6.638				ND	
52 Chloroform	83		6.786				ND	
\$ 54 Dibromofluoromethane (Surr)	113	6.998	7.001	-0.003	94	232582	54.1	
55 1,1,1-Trichloroethane	97		7.020				ND	
58 Carbon tetrachloride	117		7.219				ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.463	7.460	0.003	69	58783	52.4	
61 Benzene	78		7.488				ND	
62 1,2-Dichloroethane	62		7.562				ND	
* 65 Fluorobenzene (IS)	96	7.886	7.896	-0.010	99	895827	50.0	
68 Trichloroethene	95		8.371				ND	
71 1,2-Dichloropropane	63		8.708				ND	
77 Dichlorobromomethane	83		9.051				ND	
81 cis-1,3-Dichloropropene	75		9.587				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.760				ND	
\$ 84 Toluene-d8 (Surr)	98	9.886	9.886	0.000	93	888480	49.8	
85 Toluene	92		9.963				ND	
86 trans-1,3-Dichloropropene	75		10.216				ND	
88 1,1,2-Trichloroethane	97		10.418				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
90 Tetrachloroethene	166		10.498				ND	
94 2-Hexanone	43		10.630				ND	
96 Chlorodibromomethane	129		10.787				ND	
98 Ethylene Dibromide	107		10.900				ND	
S 178 Xylenes, Total	106		11.245				ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.326	-0.003	85	675037	50.0	
102 Chlorobenzene	112		11.352				ND	7
104 1,1,1,2-Tetrachloroethane	131		11.432				ND	
105 Ethylbenzene	91		11.435				ND	
106 m-Xylene & p-Xylene	106		11.548				ND	
108 o-Xylene	106		11.875				ND	
109 Styrene	104		11.891				ND	
110 Bromoform	173		12.048				ND	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.318	12.318	0.000	91	317494	47.4	
116 1,1,2,2-Tetrachloroethane	83		12.421				ND	
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.194	0.000	95	383583	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00030

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 15-Oct-2024 11:33:46

Chrom Revision: 2.3 14-Oct-2024 13:34:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X28.D

Injection Date: 14-Oct-2024 05:26:30

Instrument ID: 9137

Operator ID: gaw91131

Lims ID: 410-191672-A-8

Lab Sample ID: 410-191672-8

Worklist Smp#: 29

Client ID: HD-MW-148A-136/136.5-0

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

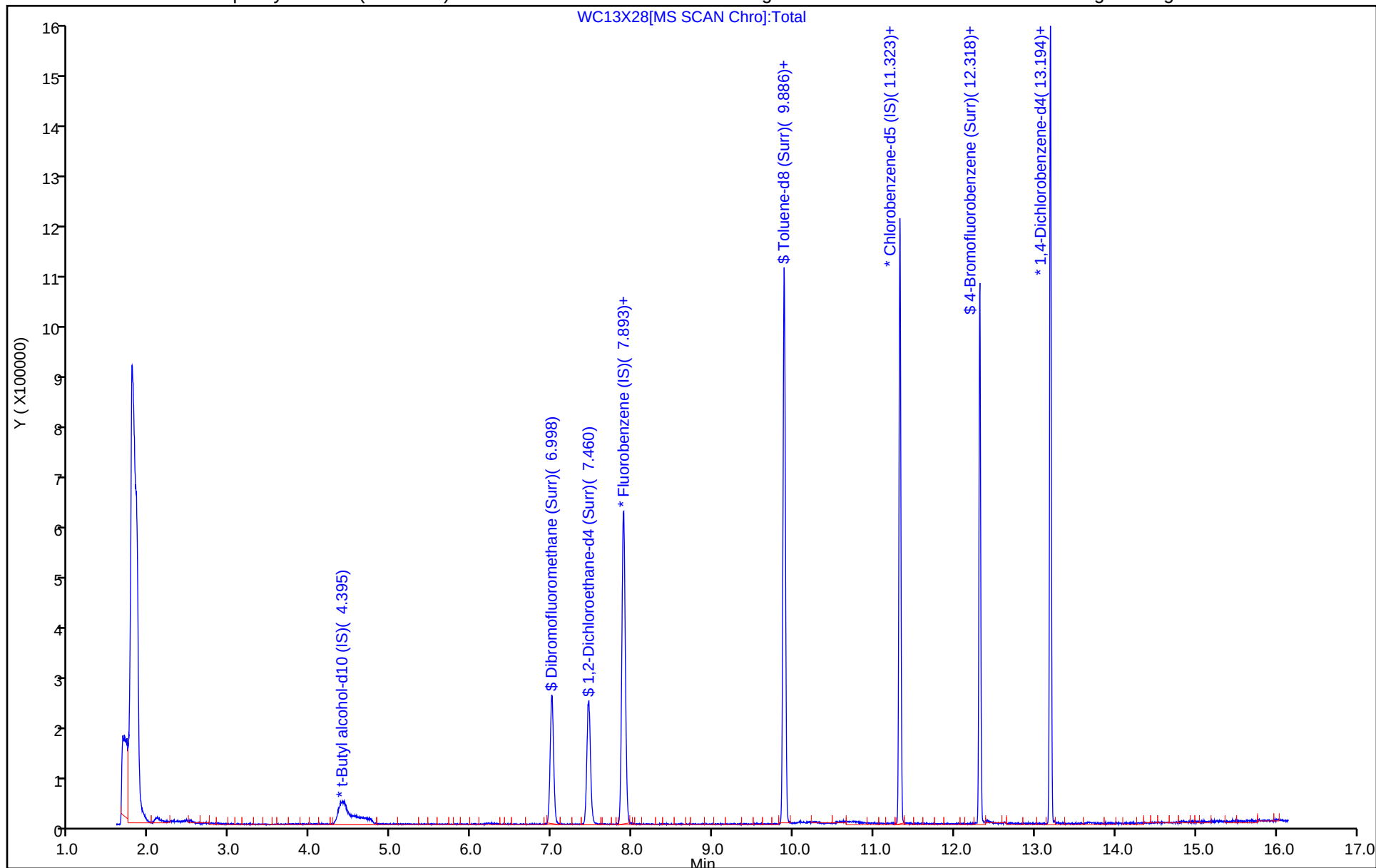
ALS Bottle#: 28

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X28.D
Lims ID: 410-191672-A-8
Client ID: HD-MW-148A-136/136.5-0
Sample Type: Client
Inject. Date: 14-Oct-2024 05:26:30 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127582-029
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 15-Oct-2024 11:33:45 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: N9NA

Date: 15-Oct-2024 11:33:45

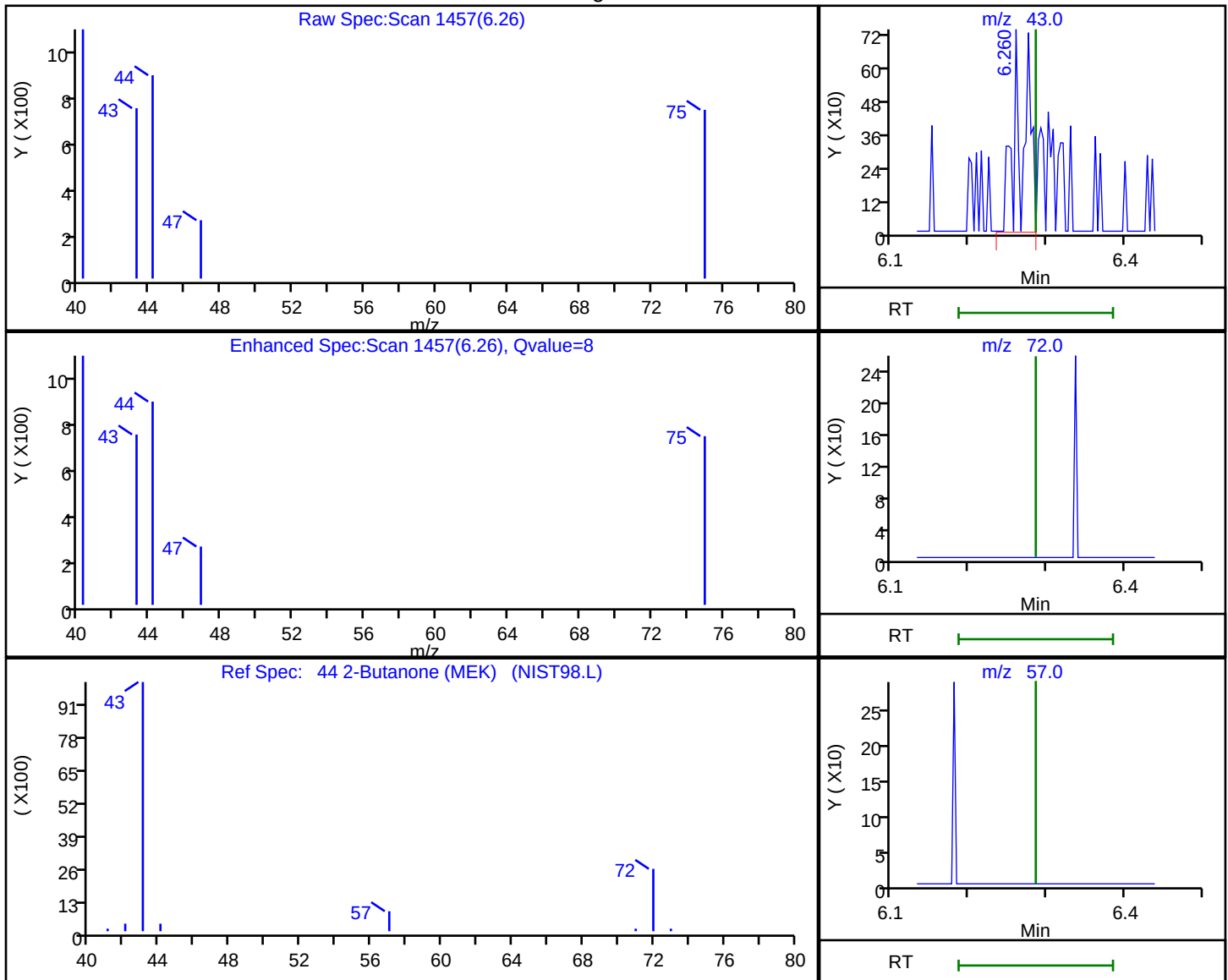
Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	54.1	108.11
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	52.4	104.72
\$ 84 Toluene-d8 (Surr)	50.0	49.8	99.69
\$ 114 4-Bromofluorobenzene (Surr)	50.0	47.4	94.77

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X28.D
Injection Date: 14-Oct-2024 05:26:30 Instrument ID: 9137
Lims ID: 410-191672-A-8 Lab Sample ID: 410-191672-8
Client ID: HD-MW-148A-136/136.5-0
Operator ID: gaw91131 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.26	43.00	781	0.183120
6.29	72.00	0	
6.29	57.00	0	

Reviewer: N9NA, 15-Oct-2024 11:33:35 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-QC3-0/1-4

Lab Sample ID: 410-191672-9

Matrix: Water

Lab File ID: WC10X56.D

Analysis Method: 8260D

Date Collected: 10/08/2024 13:00

Sample wt/vol: 5(mL)

Date Analyzed: 10/10/2024 23:52

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 561893

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	11	J ^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-QC3-0/1-4

Lab Sample ID: 410-191672-9

Matrix: Water

Lab File ID: WC10X56.D

Analysis Method: 8260D

Date Collected: 10/08/2024 13:00

Sample wt/vol: 5 (mL)

Date Analyzed: 10/10/2024 23:52

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 561893

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	ND		1.0	0.30
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X56.D
 Lims ID: 410-191672-A-9
 Client ID: HD-QC3-0/1-4
 Sample Type: Client
 Inject. Date: 10-Oct-2024 23:52:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127401-007
 Operator ID: KEL87800 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 11-Oct-2024 13:54:33 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1645

First Level Reviewer: FQ4L

Date: 11-Oct-2024 13:54:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
7 Chloromethane	50		2.213				ND	7
8 Vinyl chloride	62		2.332				ND	
11 Bromomethane	94		2.695				ND	
12 Chloroethane	64		2.781				ND	7
21 1,1-Dichloroethene	96		3.699				ND	
20 Acetone	58	3.731	3.731	0.000	64	9362	10.7	
26 Carbon disulfide	76		4.020				ND	7
30 Methylene Chloride	84		4.389				ND	
* 32 t-Butyl alcohol-d10 (IS)	65	4.389	4.408	-0.019	1	285988	250.0	
36 Methyl tert-butyl ether	73		4.793				ND	
35 trans-1,2-Dichloroethene	96		4.796				ND	
38 1,1-Dichloroethane	63		5.470				ND	
44 2-Butanone (MEK)	43		6.279				ND	U
43 cis-1,2-Dichloroethene	96		6.301				ND	
50 Chlorobromomethane	128		6.632				ND	
52 Chloroform	83		6.786				ND	
\$ 54 Dibromofluoromethane (Surr)	113	6.988	6.998	-0.010	93	234212	53.4	
55 1,1,1-Trichloroethane	97		7.014				ND	
58 Carbon tetrachloride	117		7.216				ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.444	7.457	-0.013	70	60127	52.5	
61 Benzene	78		7.489				ND	7
62 1,2-Dichloroethane	62		7.562				ND	
* 65 Fluorobenzene (IS)	96	7.886	7.890	-0.004	99	913087	50.0	
68 Trichloroethene	95		8.365				ND	
71 1,2-Dichloropropane	63		8.708				ND	
77 Dichlorobromomethane	83		9.048				ND	
81 cis-1,3-Dichloropropene	75		9.584				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.757				ND	7
\$ 84 Toluene-d8 (Surr)	98	9.879	9.886	-0.007	93	914374	49.4	
85 Toluene	92		9.959				ND	7
86 trans-1,3-Dichloropropene	75		10.213				ND	
88 1,1,2-Trichloroethane	97		10.412				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
90 Tetrachloroethene	166		10.499				ND	
94 2-Hexanone	43		10.627				ND	U
96 Chlorodibromomethane	129		10.784				ND	
98 Ethylene Dibromide	107		10.896				ND	
S 178 Xylenes, Total	106		11.245				ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.320	11.323	-0.003	85	700375	50.0	
102 Chlorobenzene	112		11.349				ND	7
104 1,1,1,2-Tetrachloroethane	131		11.432				ND	
105 Ethylbenzene	91		11.432				ND	7
106 m-Xylene & p-Xylene	106		11.548				ND	7
108 o-Xylene	106		11.875				ND	7
109 Styrene	104		11.888				ND	7
110 Bromoform	173		12.048				ND	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.315	12.312	0.003	95	338644	48.7	
116 1,1,2,2-Tetrachloroethane	83		12.418				ND	U
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.191	0.003	95	404297	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00030

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 11-Oct-2024 13:54:33

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X56.D

Injection Date: 10-Oct-2024 23:52:30

Instrument ID: 9137

Operator ID: KEL87800

Lims ID: 410-191672-A-9

Lab Sample ID: 410-191672-9

Worklist Smp#: 7

Client ID: HD-QC3-0/1-4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

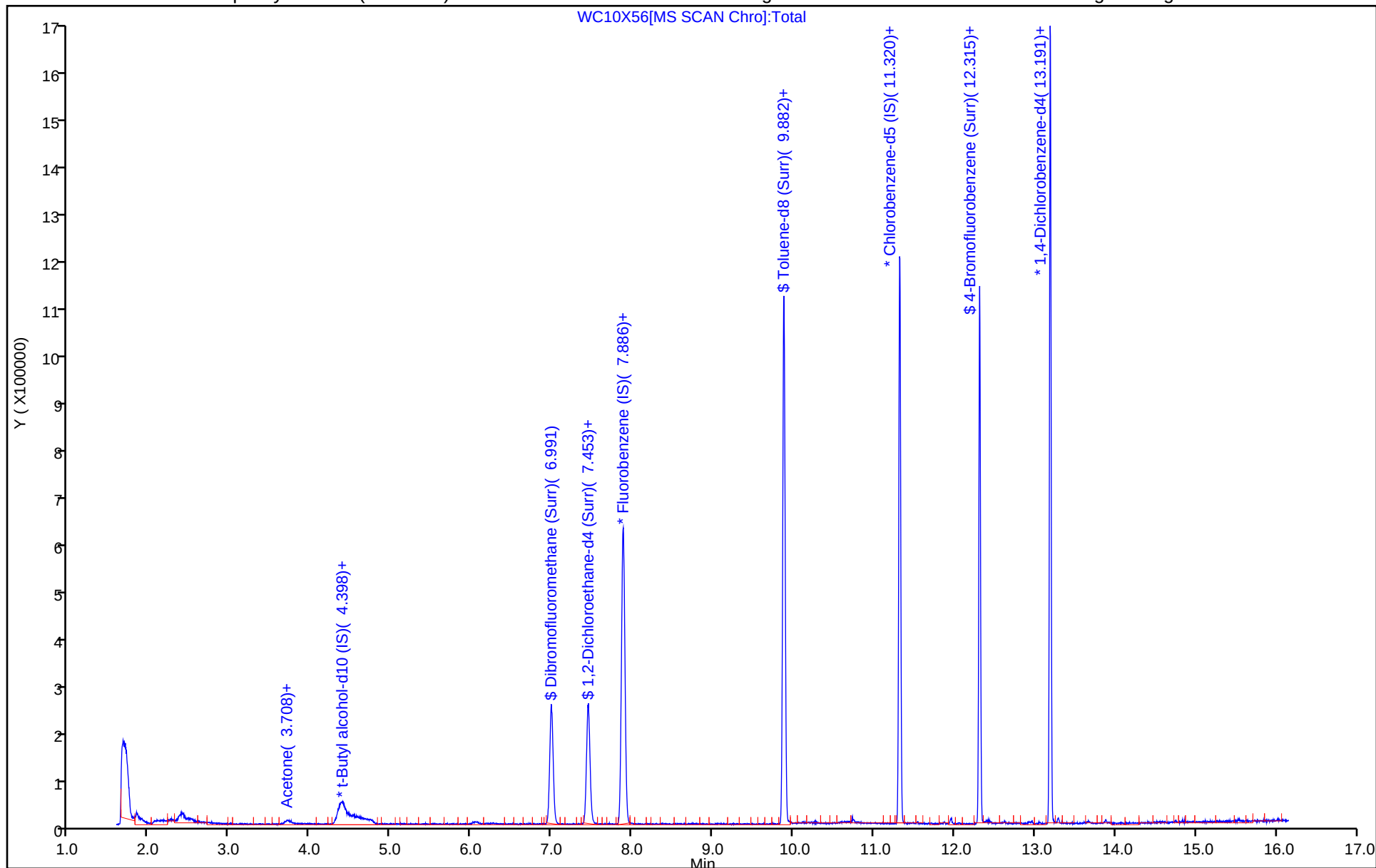
ALS Bottle#: 6

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X56.D
Lims ID: 410-191672-A-9
Client ID: HD-QC3-0/1-4
Sample Type: Client
Inject. Date: 10-Oct-2024 23:52:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127401-007
Operator ID: KEL87800 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2024 13:54:33 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1645

First Level Reviewer: FQ4L

Date: 11-Oct-2024 13:54:33

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	53.4	106.81
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	52.5	105.09
\$ 84 Toluene-d8 (Surr)	50.0	49.4	98.88
\$ 114 4-Bromofluorobenzene (Surr)	50.0	48.7	97.42

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X56.D

Injection Date: 10-Oct-2024 23:52:30

Instrument ID: 9137

Lims ID: 410-191672-A-9

Lab Sample ID: 410-191672-9

Client ID: HD-QC3-0/1-4

Operator ID: KEL87800

ALS Bottle#: 6

Worklist Smp#: 7

Purge Vol: 5.000 mL

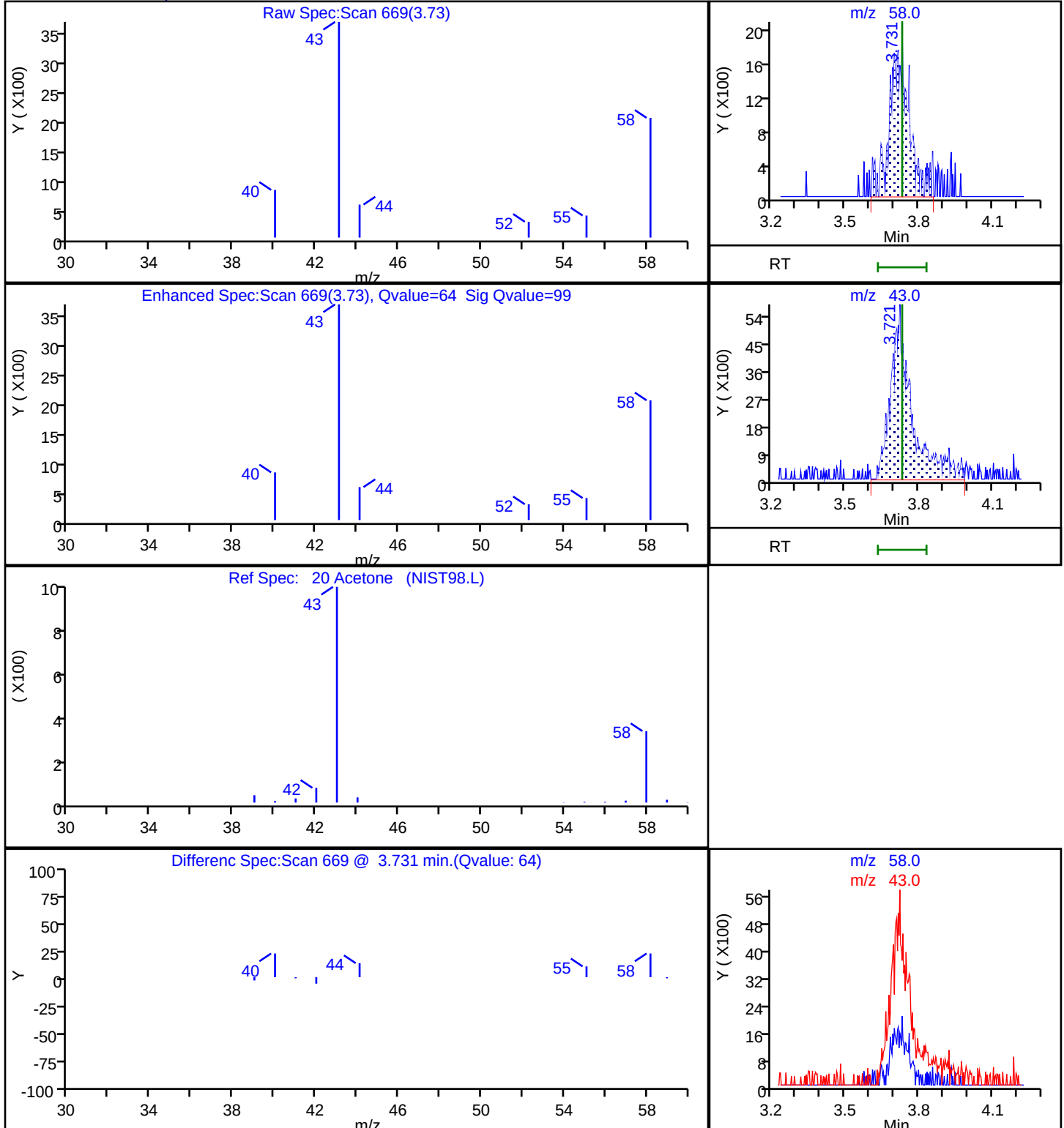
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm ID)

MS Quad

20 Acetone, CAS: 67-64-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X56.D

Injection Date: 10-Oct-2024 23:52:30

Instrument ID: 9137

Lims ID: 410-191672-A-9

Lab Sample ID: 410-191672-9

Client ID: HD-QC3-0/1-4

Operator ID: KEL87800

ALS Bottle#:

6

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: MSVoa_9137

Limit Group:

MSV - 8260C_D

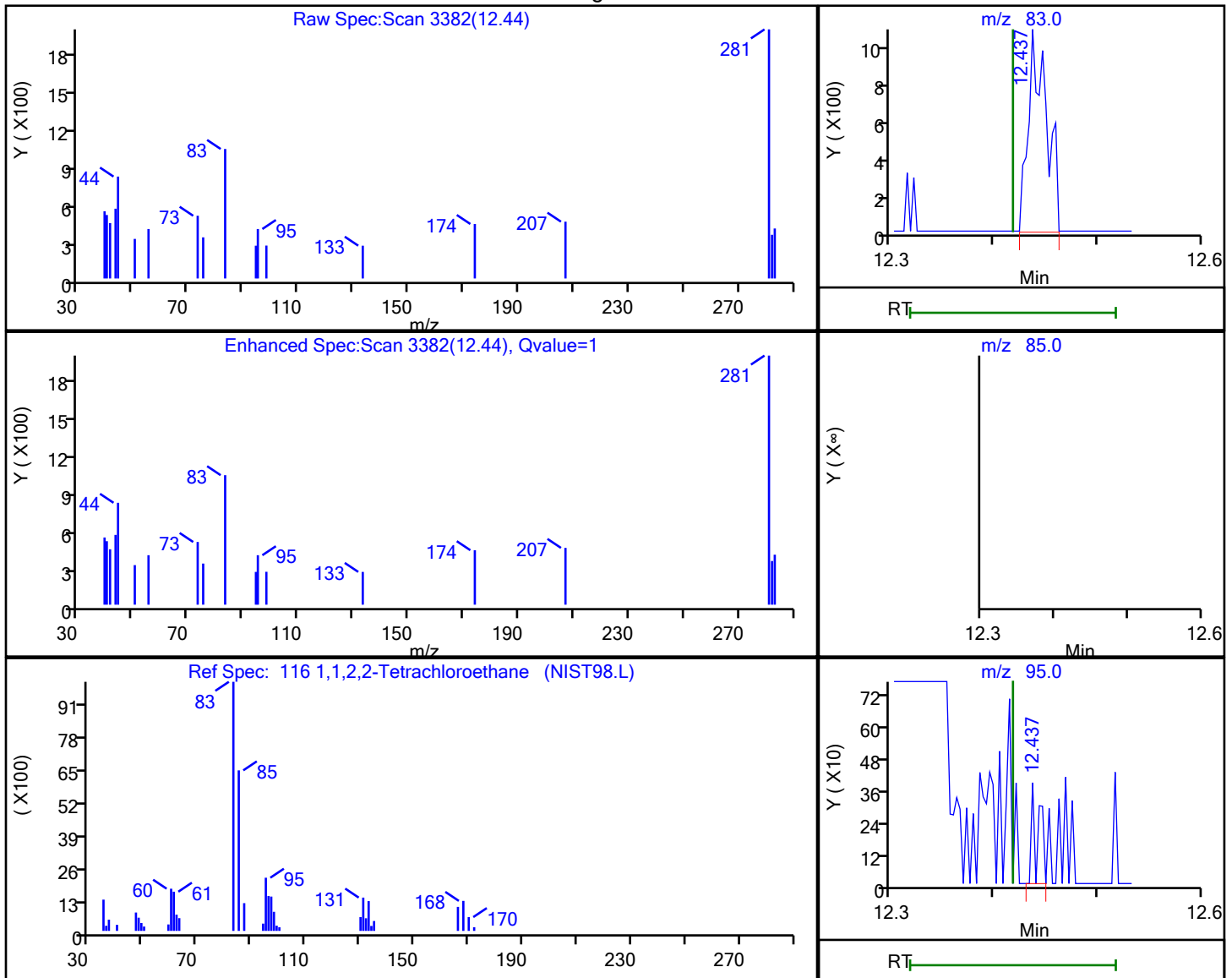
Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

Detector

MS Quad

116 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
12.44	83.00	1245	0.135256
12.42	85.00	0	
12.44	95.00	188	
12.42	168.00	0	
12.42	87.00	0	

Reviewer: FQ4L, 11-Oct-2024 13:54:26 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X56.D

Injection Date: 10-Oct-2024 23:52:30

Instrument ID: 9137

Lims ID: 410-191672-A-9

Lab Sample ID: 410-191672-9

Client ID: HD-QC3-0/1-4

Operator ID: KEL87800

ALS Bottle#:

6

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: MSVoa_9137

Limit Group:

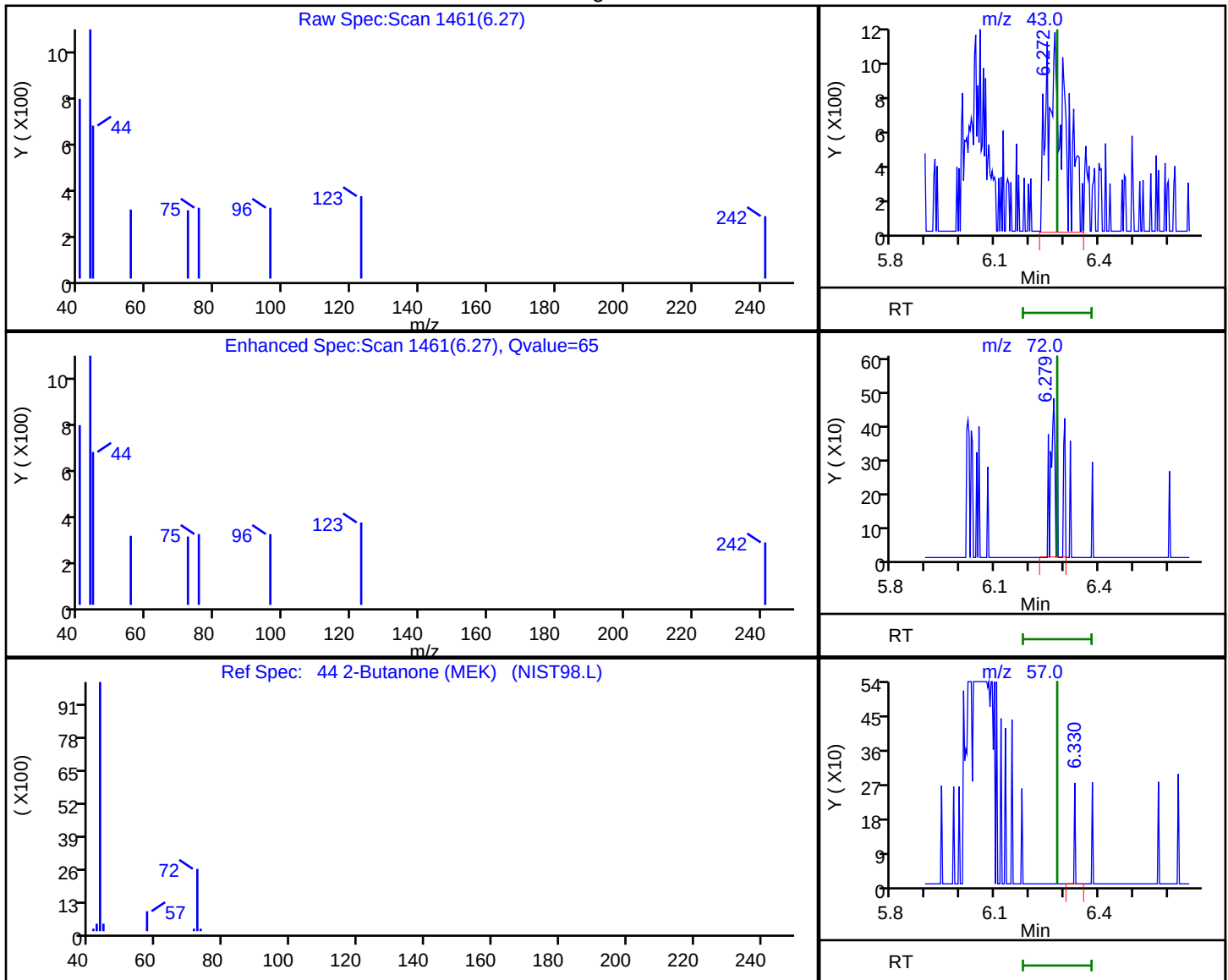
MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.27	43.00	3888	0.894382
6.28	72.00	672	
6.33	57.00	52	

Reviewer: FQ4L, 11-Oct-2024 13:54:10 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X56.D

Injection Date: 10-Oct-2024 23:52:30

Instrument ID: 9137

Lims ID: 410-191672-A-9

Lab Sample ID: 410-191672-9

Client ID: HD-QC3-0/1-4

Operator ID: KEL87800

ALS Bottle#:

6

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: MSVoa_9137

Limit Group:

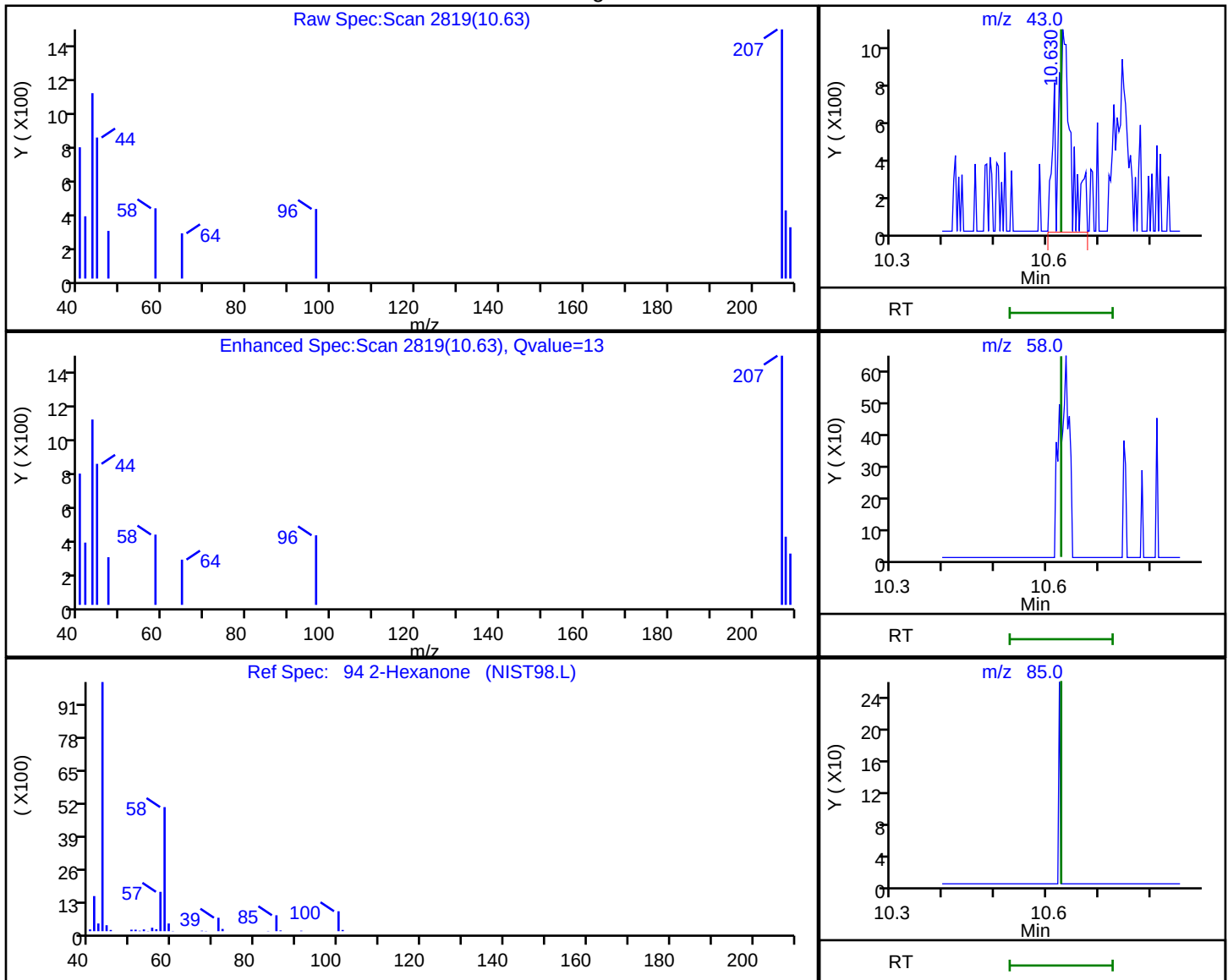
MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

94 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
10.63	43.00	1964	0.328768
10.63	58.00	0	
10.63	85.00	0	
10.63	100.00	0	

Reviewer: FQ4L, 11-Oct-2024 13:54:19 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-QC3-0/1-3

Lab Sample ID: 410-191672-10

Matrix: Water

Lab File ID: WC10X57.D

Analysis Method: 8260D

Date Collected: 10/08/2024 12:55

Sample wt/vol: 5(mL)

Date Analyzed: 10/11/2024 00:14

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 561893

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	12	J ^c cn	20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-QC3-0/1-3

Lab Sample ID: 410-191672-10

Matrix: Water

Lab File ID: WC10X57.D

Analysis Method: 8260D

Date Collected: 10/08/2024 12:55

Sample wt/vol: 5 (mL)

Date Analyzed: 10/11/2024 00:14

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 561893

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	ND		1.0	0.30
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X57.D
 Lims ID: 410-191672-A-10
 Client ID: HD-QC3-0/1-3
 Sample Type: Client
 Inject. Date: 11-Oct-2024 00:14:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127401-008
 Operator ID: KEL87800 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 11-Oct-2024 13:55:11 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1645

First Level Reviewer: FQ4L

Date: 11-Oct-2024 13:55:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
7 Chloromethane	50		2.213				ND	7
8 Vinyl chloride	62		2.332				ND	
11 Bromomethane	94		2.695				ND	
12 Chloroethane	64		2.781				ND	
21 1,1-Dichloroethene	96		3.699				ND	
20 Acetone	58	3.708	3.731	-0.023	89	10644	12.1	
26 Carbon disulfide	76		4.020				ND	7
30 Methylene Chloride	84		4.389				ND	
* 32 t-Butyl alcohol-d10 (IS)	65	4.398	4.408	-0.010	59	288711	250.0	
36 Methyl tert-butyl ether	73		4.793				ND	
35 trans-1,2-Dichloroethene	96		4.796				ND	
38 1,1-Dichloroethane	63		5.470				ND	
44 2-Butanone (MEK)	43		6.279				ND	U
43 cis-1,2-Dichloroethene	96		6.301				ND	
50 Chlorobromomethane	128		6.632				ND	
52 Chloroform	83		6.786				ND	
\$ 54 Dibromofluoromethane (Surr)	113	6.994	6.998	-0.004	93	229880	53.4	
55 1,1,1-Trichloroethane	97		7.014				ND	
58 Carbon tetrachloride	117		7.216				ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.444	7.457	-0.013	69	57638	51.4	
61 Benzene	78		7.489				ND	
62 1,2-Dichloroethane	62		7.562				ND	
* 65 Fluorobenzene (IS)	96	7.883	7.890	-0.007	99	895635	50.0	
68 Trichloroethene	95		8.365				ND	
71 1,2-Dichloropropane	63		8.708				ND	
77 Dichlorobromomethane	83		9.048				ND	
81 cis-1,3-Dichloropropene	75		9.584				ND	7
83 4-Methyl-2-pentanone (MIBK)	43		9.757				ND	7
\$ 84 Toluene-d8 (Surr)	98	9.882	9.886	-0.004	93	889822	48.9	
85 Toluene	92		9.959				ND	7
86 trans-1,3-Dichloropropene	75		10.213				ND	
88 1,1,2-Trichloroethane	97		10.412				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
90 Tetrachloroethene	166		10.499				ND	
94 2-Hexanone	43		10.627				ND	U
96 Chlorodibromomethane	129		10.784				ND	
98 Ethylene Dibromide	107		10.896				ND	
S 178 Xylenes, Total	106		11.245				ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.323	0.000	85	689485	50.0	
102 Chlorobenzene	112		11.349				ND	
104 1,1,1,2-Tetrachloroethane	131		11.432				ND	
105 Ethylbenzene	91		11.432				ND	7
106 m-Xylene & p-Xylene	106		11.548				ND	7
108 o-Xylene	106		11.875				ND	7
109 Styrene	104		11.888				ND	
110 Bromoform	173		12.048				ND	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.315	12.312	0.003	90	326546	47.7	
116 1,1,2,2-Tetrachloroethane	83		12.418				ND	7
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.191	0.003	95	397662	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00030

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 11-Oct-2024 13:55:12

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X57.D

Injection Date: 11-Oct-2024 00:14:30

Instrument ID: 9137

Operator ID: KEL87800

Lims ID: 410-191672-A-10

Lab Sample ID: 410-191672-10

Worklist Smp#: 8

Client ID: HD-QC3-0/1-3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

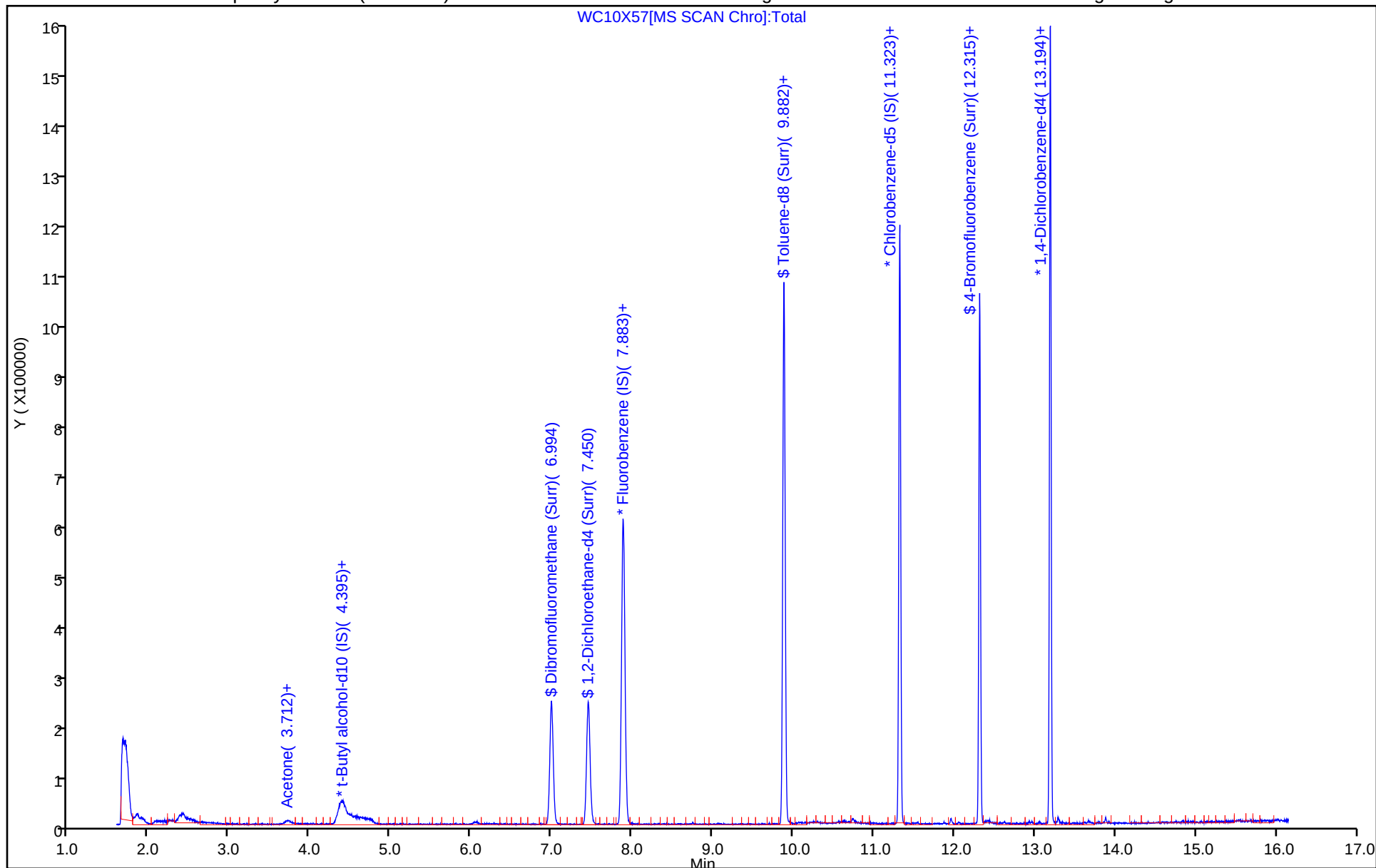
ALS Bottle#: 7

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X57.D
Lims ID: 410-191672-A-10
Client ID: HD-QC3-0/1-3
Sample Type: Client
Inject. Date: 11-Oct-2024 00:14:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127401-008
Operator ID: KEL87800 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2024 13:55:11 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1645

First Level Reviewer: FQ4L

Date: 11-Oct-2024 13:55:11

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	53.4	106.87
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	51.4	102.71
\$ 84 Toluene-d8 (Surr)	50.0	48.9	97.75
\$ 114 4-Bromofluorobenzene (Surr)	50.0	47.7	95.43

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X57.D

Injection Date: 11-Oct-2024 00:14:30

Instrument ID: 9137

Lims ID: 410-191672-A-10

Lab Sample ID: 410-191672-10

Client ID: HD-QC3-0/1-3

Operator ID: KEL87800

ALS Bottle#: 7

Worklist Smp#: 8

Purge Vol: 5.000 mL

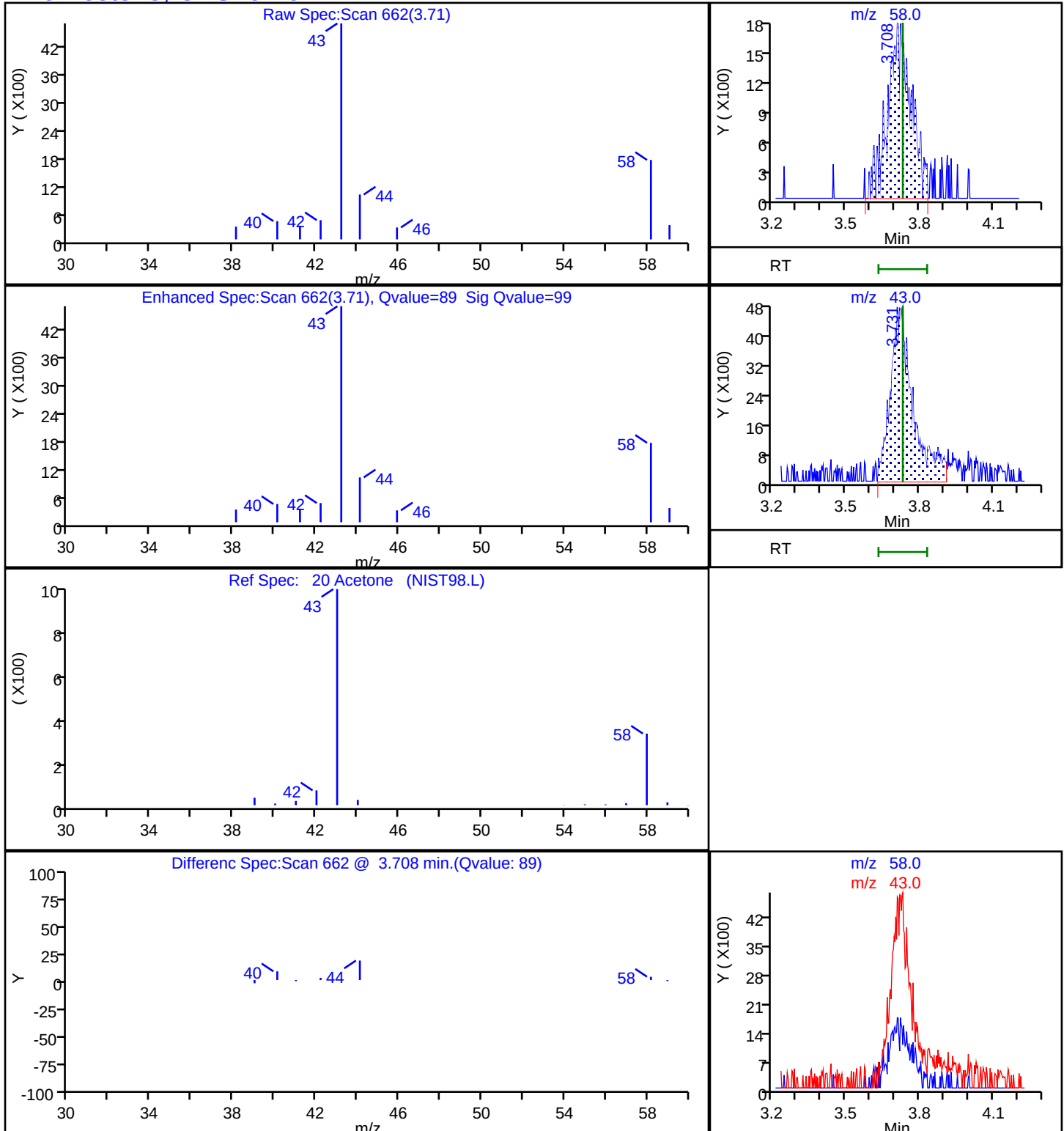
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm ID) x 30 m

MS Quad

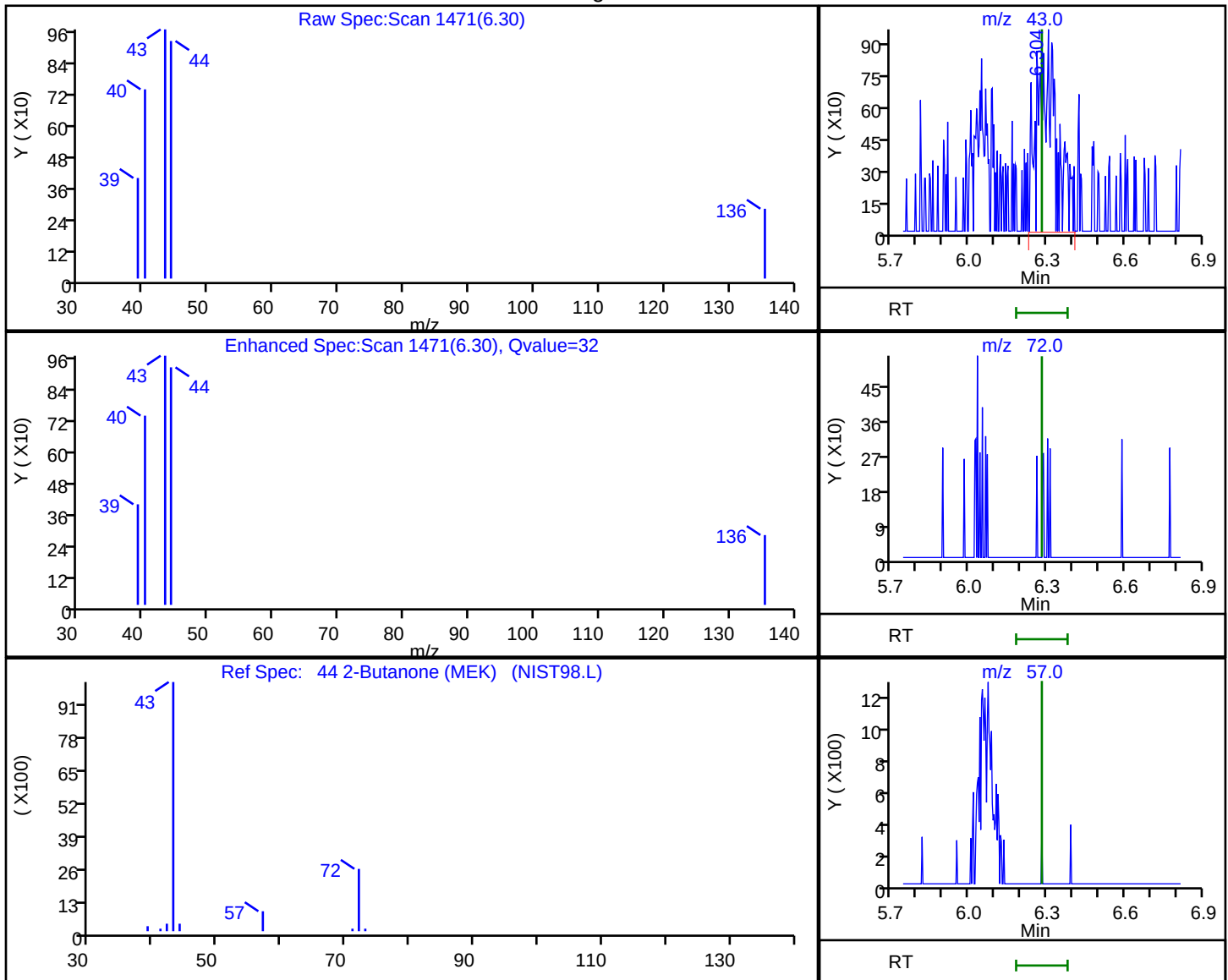
20 Acetone, CAS: 67-64-1

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X57.D
Injection Date: 11-Oct-2024 00:14:30 Instrument ID: 9137
Lims ID: 410-191672-A-10 Lab Sample ID: 410-191672-10
Client ID: HD-QC3-0/1-3
Operator ID: KEL87800 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
6.30	43.00	4629	1.085588
6.28	72.00	0	
6.28	57.00	0	

Reviewer: FQ4L, 11-Oct-2024 13:54:54 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X57.D

Injection Date: 11-Oct-2024 00:14:30

Instrument ID: 9137

Lims ID: 410-191672-A-10

Lab Sample ID: 410-191672-10

Client ID: HD-QC3-0/1-3

Operator ID: KEL87800

ALS Bottle#: 7 Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: MSVoa_9137

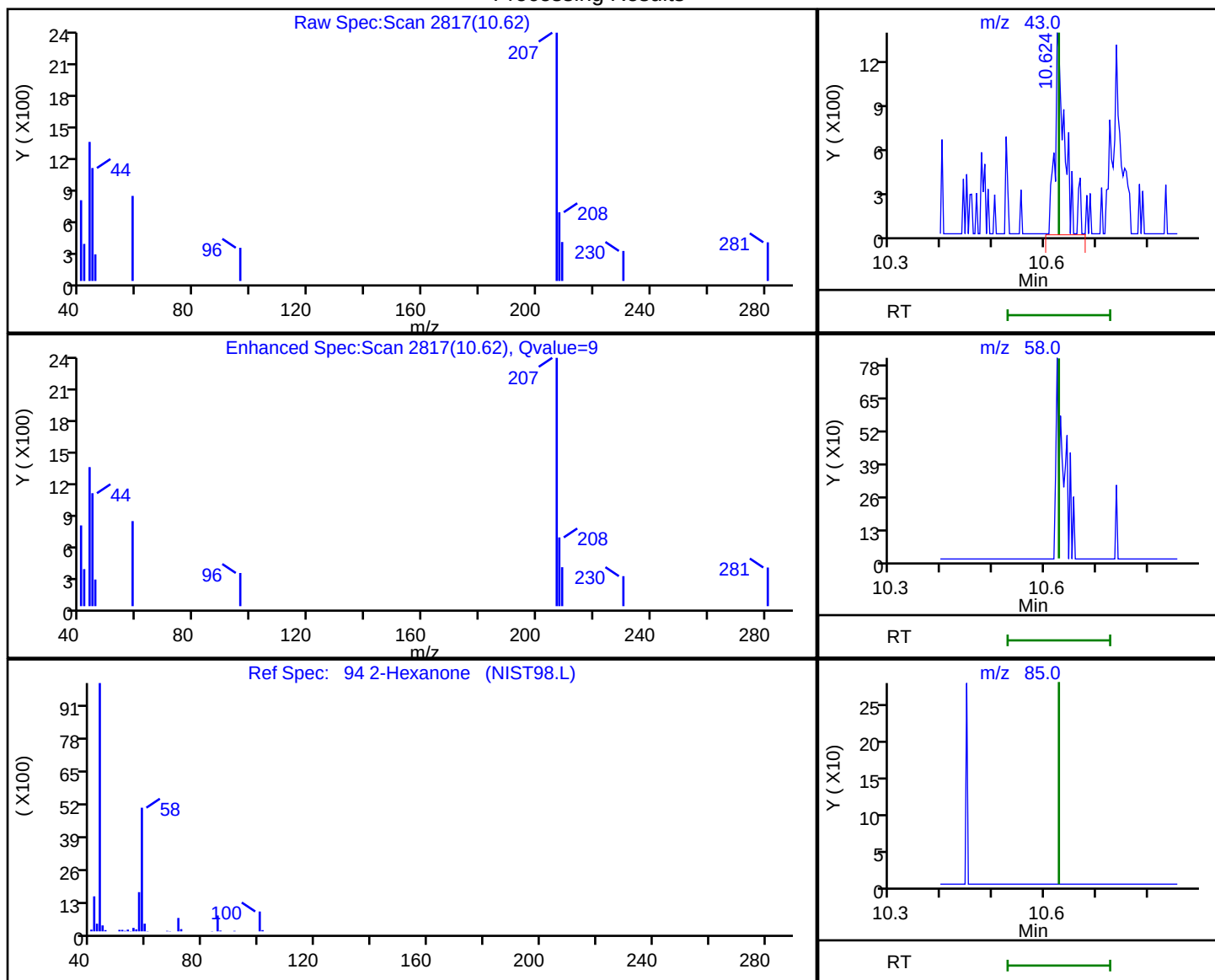
Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

94 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
10.62	43.00	1749	0.297402
10.63	58.00	0	
10.63	85.00	0	
10.63	100.00	0	

Reviewer: FQ4L, 11-Oct-2024 13:55:02 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-QC3-0/1-1

Lab Sample ID: 410-191672-11

Matrix: Water

Lab File ID: WC13X29.D

Analysis Method: 8260D

Date Collected: 10/07/2024 14:20

Sample wt/vol: 5 (mL)

Date Analyzed: 10/14/2024 05:47

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 562572

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND	^c cn	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	1.0		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-QC3-0/1-1 Lab Sample ID: 410-191672-11

Matrix: Water Lab File ID: WC13X29.D

Analysis Method: 8260D Date Collected: 10/07/2024 14:20

Sample wt/vol: 5 (mL) Date Analyzed: 10/14/2024 05:47

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 562572 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	1.1		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X29.D
 Lims ID: 410-191672-A-11
 Client ID: HD-QC3-0/1-1
 Sample Type: Client
 Inject. Date: 14-Oct-2024 05:47:30 ALS Bottle#: 29 Worklist Smp#: 30
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127582-030
 Operator ID: gaw91131 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 15-Oct-2024 11:34:30 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1602

First Level Reviewer: N9NA

Date: 15-Oct-2024 11:34:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
7 Chloromethane	50		2.219				ND	
8 Vinyl chloride	62		2.335				ND	
11 Bromomethane	94		2.694				ND	
12 Chloroethane	64		2.781				ND	
21 1,1-Dichloroethene	96		3.696				ND	
20 Acetone	58		3.724				ND	
26 Carbon disulfide	76		4.020				ND	
30 Methylene Chloride	84		4.382				ND	
* 32 t-Butyl alcohol-d10 (IS)	65	4.389	4.389	0.000	1	294923	250.0	
35 trans-1,2-Dichloroethene	96		4.793				ND	
36 Methyl tert-butyl ether	73		4.799				ND	
38 1,1-Dichloroethane	63		5.467				ND	
44 2-Butanone (MEK)	43		6.285				ND	
43 cis-1,2-Dichloroethene	96		6.304				ND	7
50 Chlorobromomethane	128		6.638				ND	
52 Chloroform	83		6.786				ND	7
\$ 54 Dibromofluoromethane (Surr)	113	6.997	7.001	-0.004	82	242912	53.5	
55 1,1,1-Trichloroethane	97		7.020				ND	
58 Carbon tetrachloride	117		7.219				ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.456	7.460	-0.004	70	59983	50.6	
61 Benzene	78		7.488				ND	
62 1,2-Dichloroethane	62		7.562				ND	
* 65 Fluorobenzene (IS)	96	7.890	7.896	-0.006	100	946134	50.0	
68 Trichloroethene	95	8.371	8.371	0.000	88	5629	1.06	
71 1,2-Dichloropropane	63		8.708				ND	
77 Dichlorobromomethane	83		9.051				ND	
81 cis-1,3-Dichloropropene	75		9.587				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.760				ND	
\$ 84 Toluene-d8 (Surr)	98	9.886	9.886	0.000	93	928461	49.9	
85 Toluene	92		9.963				ND	
86 trans-1,3-Dichloropropene	75		10.216				ND	
88 1,1,2-Trichloroethane	97		10.418				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
90 Tetrachloroethene	166	10.495	10.498	-0.003	91	5232	1.02	M
94 2-Hexanone	43		10.630				ND	
96 Chlorodibromomethane	129		10.787				ND	
98 Ethylene Dibromide	107		10.900				ND	
S 178 Xylenes, Total	106		11.245				ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.326	-0.003	85	705070	50.0	
102 Chlorobenzene	112		11.352				ND	
104 1,1,1,2-Tetrachloroethane	131		11.432				ND	
105 Ethylbenzene	91		11.435				ND	
106 m-Xylene & p-Xylene	106		11.548				ND	
108 o-Xylene	106		11.875				ND	
109 Styrene	104		11.891				ND	
110 Bromoform	173		12.048				ND	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.315	12.318	-0.003	90	335412	47.9	
116 1,1,2,2-Tetrachloroethane	83		12.421				ND	
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.194	0.000	95	401432	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_Cent_ISSS_00030

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 15-Oct-2024 11:35:29

Chrom Revision: 2.3 14-Oct-2024 13:34:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X29.D

Injection Date: 14-Oct-2024 05:47:30

Instrument ID: 9137

Operator ID: gaw91131

Lims ID: 410-191672-A-11

Lab Sample ID: 410-191672-11

Worklist Smp#: 30

Client ID: HD-QC3-0/1-1

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

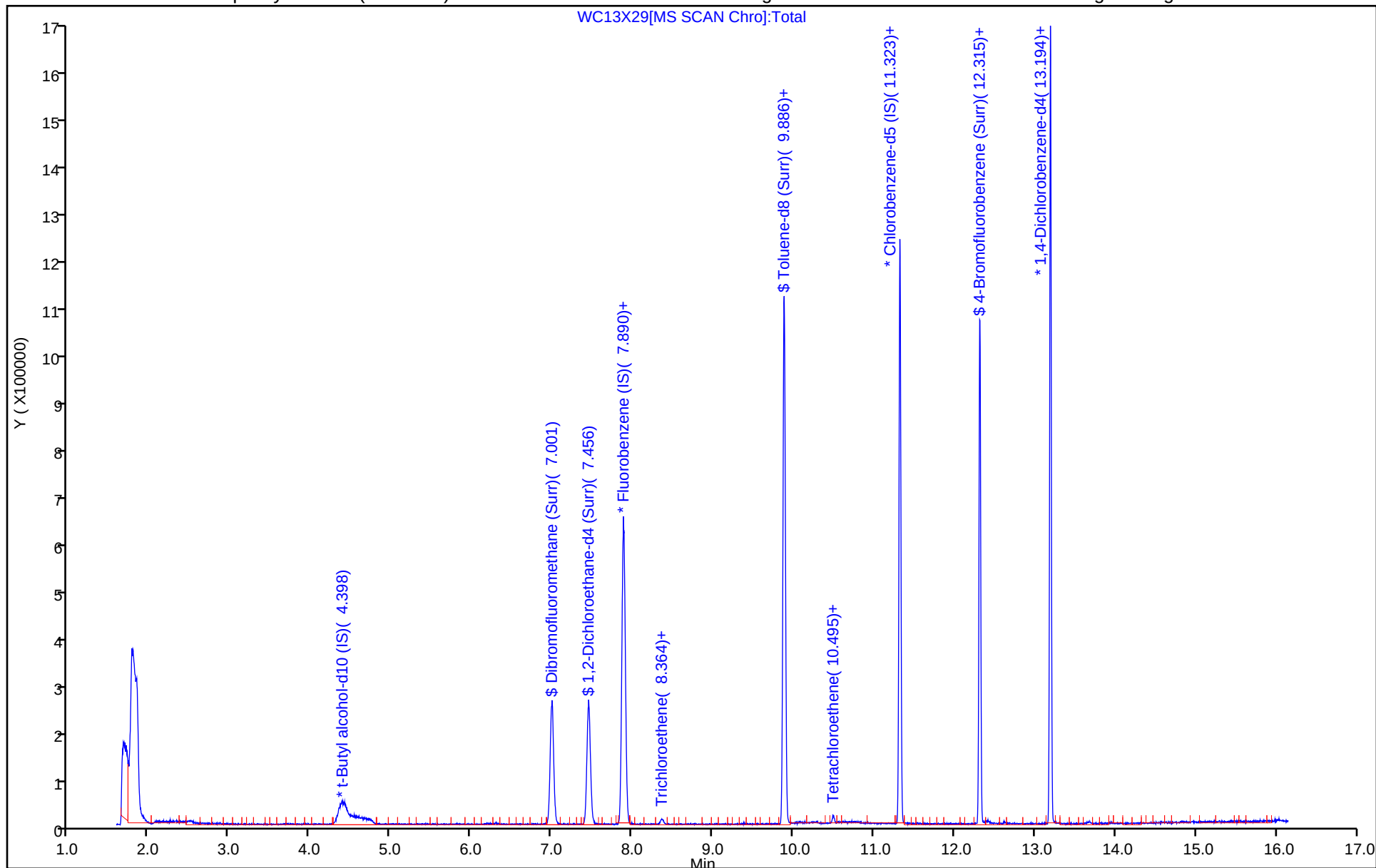
ALS Bottle#: 29

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

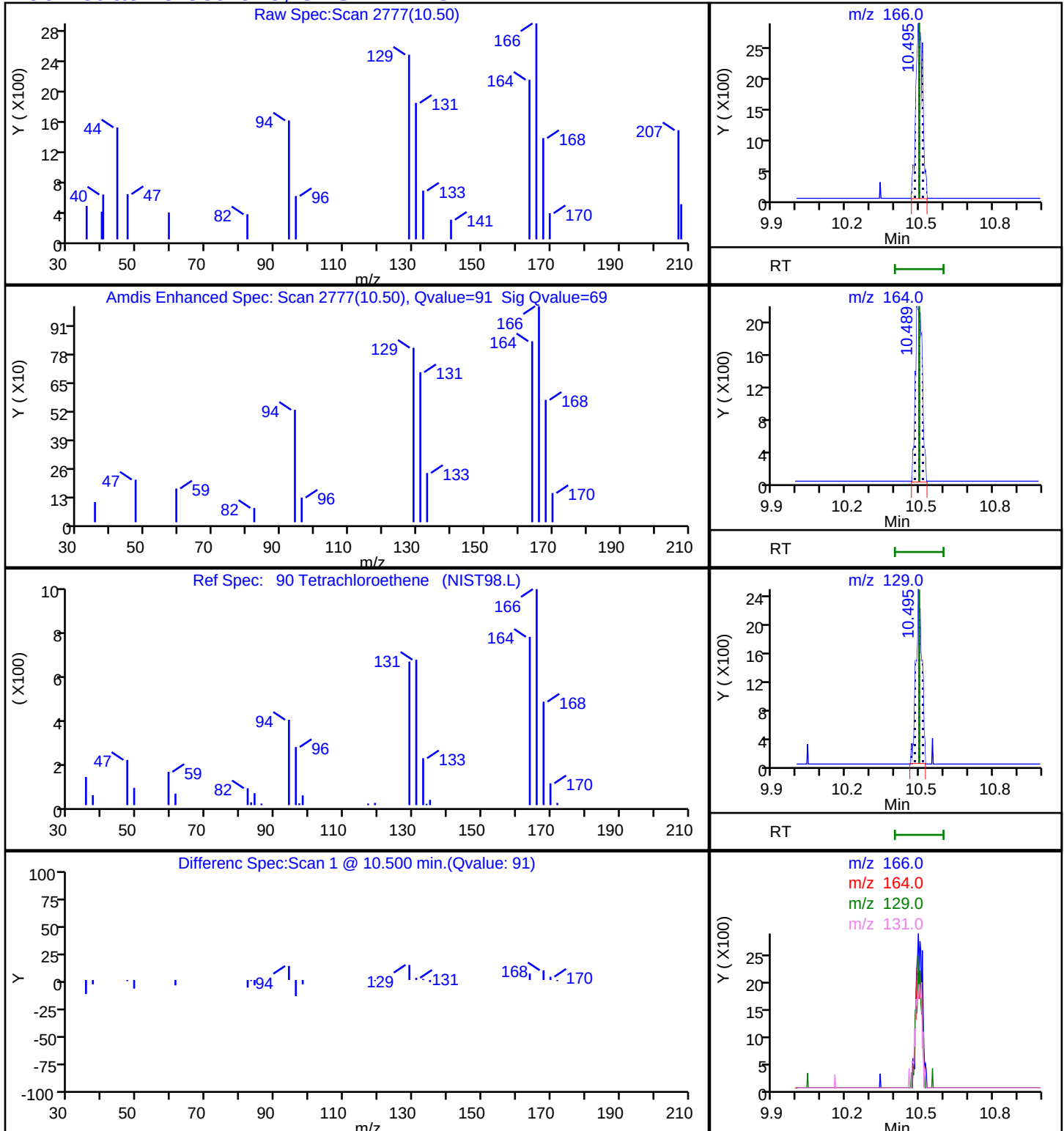
Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X29.D
Lims ID: 410-191672-A-11
Client ID: HD-QC3-0/1-1
Sample Type: Client
Inject. Date: 14-Oct-2024 05:47:30 ALS Bottle#: 29 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127582-030
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 15-Oct-2024 11:34:30 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: N9NA

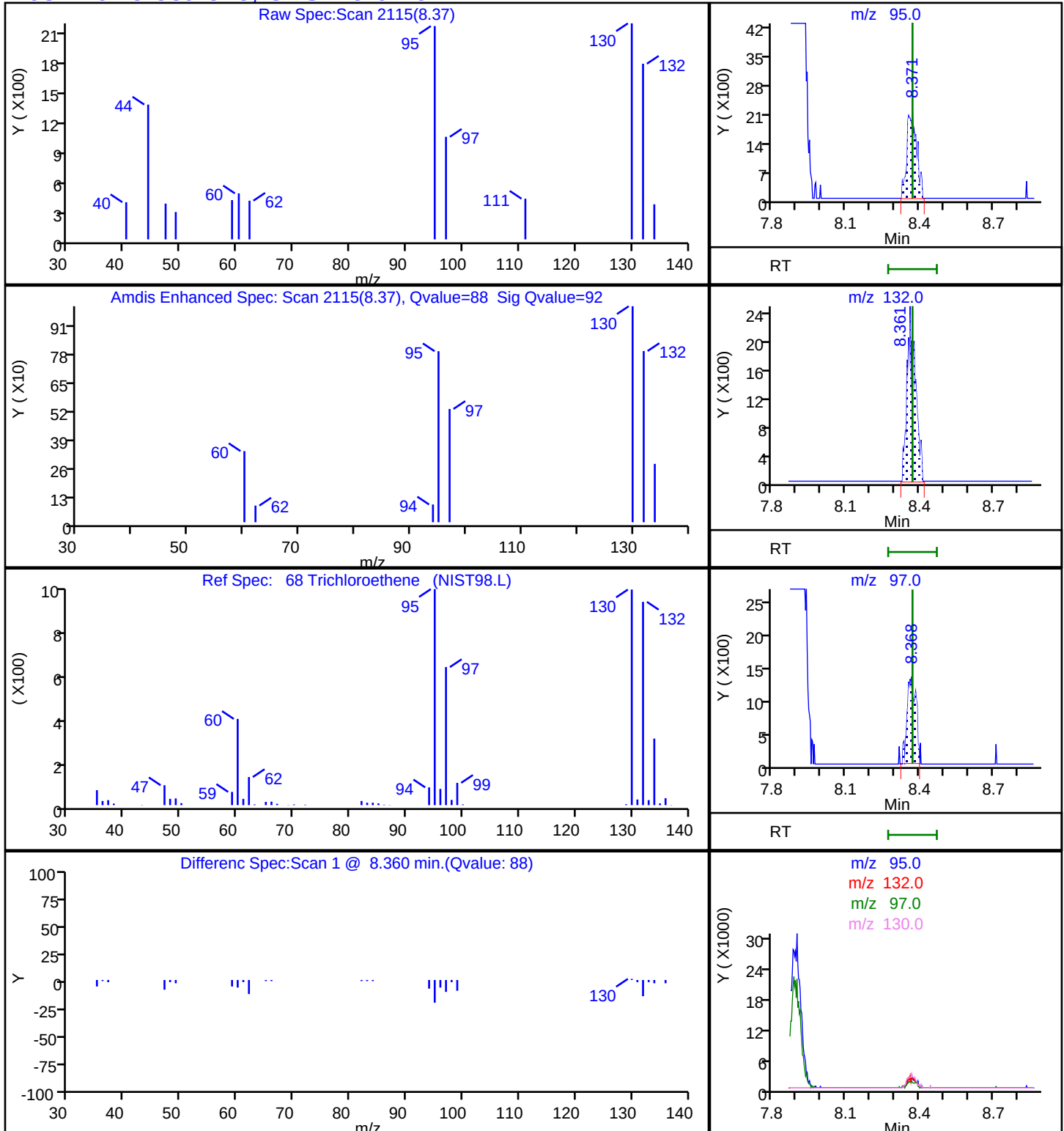
Date: 15-Oct-2024 11:34:30

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	53.5	106.90
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	50.6	101.18
\$ 84 Toluene-d8 (Surr)	50.0	49.9	99.74
\$ 114 4-Bromofluorobenzene (Surr)	50.0	47.9	95.85

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X29.D
Injection Date: 14-Oct-2024 05:47:30 Instrument ID: 9137
Lims ID: 410-191672-A-11 Lab Sample ID: 410-191672-11
Client ID: HD-QC3-0/1-1
Operator ID: gaw91131 ALS Bottle#: 29 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

90 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X29.D
Injection Date: 14-Oct-2024 05:47:30 Instrument ID: 9137
Lims ID: 410-191672-A-11 Lab Sample ID: 410-191672-11
Client ID: HD-QC3-0/1-1
Operator ID: gaw91131 ALS Bottle#: 29 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm ID) MS Quad

68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

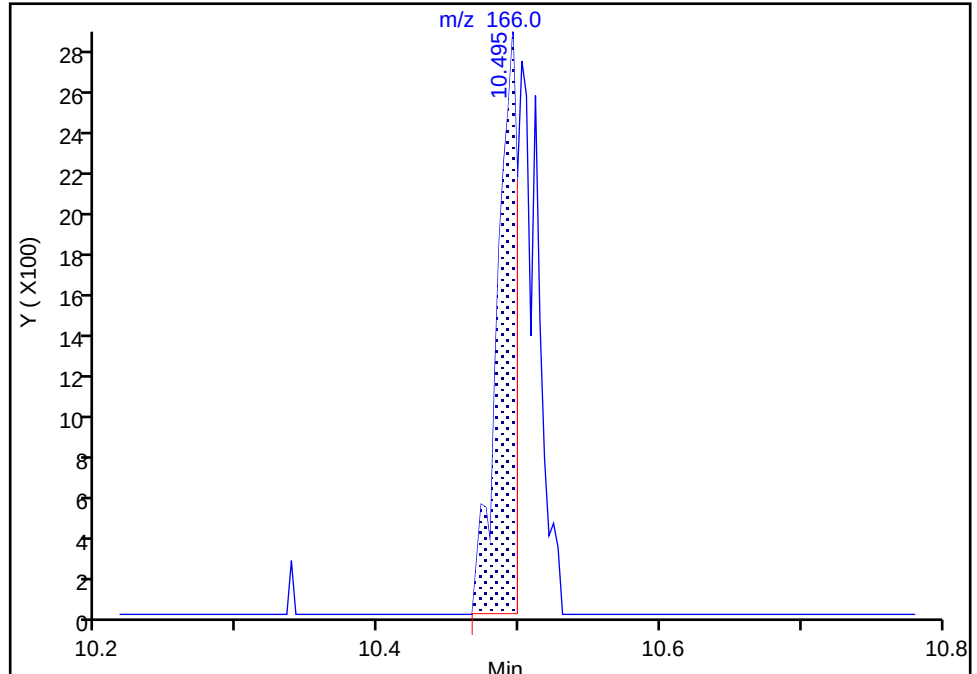
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Injection Date: 14-Oct-2024 05:47:30 Instrument ID: 9137
Lims ID: 410-191672-A-11 Lab Sample ID: 410-191672-11
Client ID: HD-QC3-0/1-1
Operator ID: gaw91131 ALS Bottle#: 29 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

90 Tetrachloroethene, CAS: 127-18-4

Signal: 1

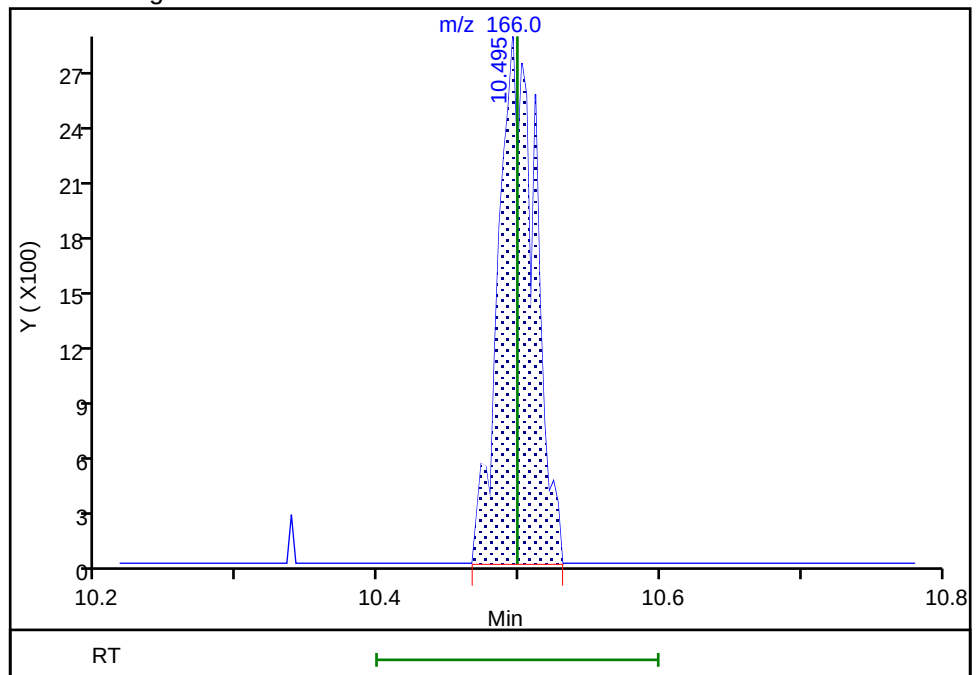
RT: 10.50
Area: 2796
Amount: 0.545916
Amount Units: ug/l

Processing Integration Results



RT: 10.50
Area: 5232
Amount: 1.021543
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 15-Oct-2024 11:34:20 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-QC4-0/1-2

Lab Sample ID: 410-191672-12

Matrix: Water

Lab File ID: WC13X11.D

Analysis Method: 8260D

Date Collected: 10/07/2024 00:00

Sample wt/vol: 5 (mL)

Date Analyzed: 10/13/2024 23:15

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 562572

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND	^c cn	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-QC4-0/1-2

Lab Sample ID: 410-191672-12

Matrix: Water

Lab File ID: WC13X11.D

Analysis Method: 8260D

Date Collected: 10/07/2024 00:00

Sample wt/vol: 5 (mL)

Date Analyzed: 10/13/2024 23:15

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 562572

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X11.D
 Lims ID: 410-191672-A-12
 Client ID: HD-QC4-0/1-2
 Sample Type: Client
 Inject. Date: 13-Oct-2024 23:15:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127582-012
 Operator ID: gaw91131 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 14-Oct-2024 04:31:11 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1602

First Level Reviewer: N9NA

Date: 15-Oct-2024 11:20:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
7 Chloromethane	50		2.219				ND	
8 Vinyl chloride	62		2.335				ND	
11 Bromomethane	94		2.694				ND	
12 Chloroethane	64		2.781				ND	
21 1,1-Dichloroethene	96		3.696				ND	
20 Acetone	58		3.724				ND	
26 Carbon disulfide	76		4.020				ND	7
30 Methylene Chloride	84		4.382				ND	
* 32 t-Butyl alcohol-d10 (IS)	65	4.411	4.389	0.022	0	333779	250.0	
35 trans-1,2-Dichloroethene	96		4.793				ND	
36 Methyl tert-butyl ether	73		4.799				ND	
38 1,1-Dichloroethane	63		5.467				ND	7
44 2-Butanone (MEK)	43		6.285				ND	
43 cis-1,2-Dichloroethene	96		6.304				ND	
50 Chlorobromomethane	128		6.638				ND	
52 Chloroform	83		6.786				ND	
\$ 54 Dibromofluoromethane (Surr)	113	6.994	7.001	-0.007	93	269784	52.8	
55 1,1,1-Trichloroethane	97		7.020				ND	
58 Carbon tetrachloride	117		7.219				ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.456	7.460	-0.004	69	66120	49.6	
61 Benzene	78		7.488				ND	
62 1,2-Dichloroethane	62		7.562				ND	
* 65 Fluorobenzene (IS)	96	7.886	7.896	-0.010	99	1063944	50.0	
68 Trichloroethene	95		8.371				ND	
71 1,2-Dichloropropane	63		8.708				ND	
77 Dichlorobromomethane	83		9.051				ND	
81 cis-1,3-Dichloropropene	75		9.587				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.760				ND	
\$ 84 Toluene-d8 (Surr)	98	9.882	9.886	-0.004	93	1056320	50.1	
85 Toluene	92		9.963				ND	
86 trans-1,3-Dichloropropene	75		10.216				ND	7
88 1,1,2-Trichloroethane	97		10.418				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
90 Tetrachloroethene	166		10.498				ND	
94 2-Hexanone	43		10.630				ND	7
96 Chlorodibromomethane	129		10.787				ND	
98 Ethylene Dibromide	107		10.900				ND	
S 178 Xylenes, Total	106		11.245				ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.326	-0.003	84	798780	50.0	
102 Chlorobenzene	112		11.352				ND	
104 1,1,1,2-Tetrachloroethane	131		11.432				ND	
105 Ethylbenzene	91		11.435				ND	7
106 m-Xylene & p-Xylene	106		11.548				ND	7
108 o-Xylene	106		11.875				ND	
109 Styrene	104		11.891				ND	
110 Bromoform	173		12.048				ND	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.315	12.318	-0.003	90	388519	49.0	
116 1,1,2,2-Tetrachloroethane	83		12.421				ND	
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.194	0.000	95	451629	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

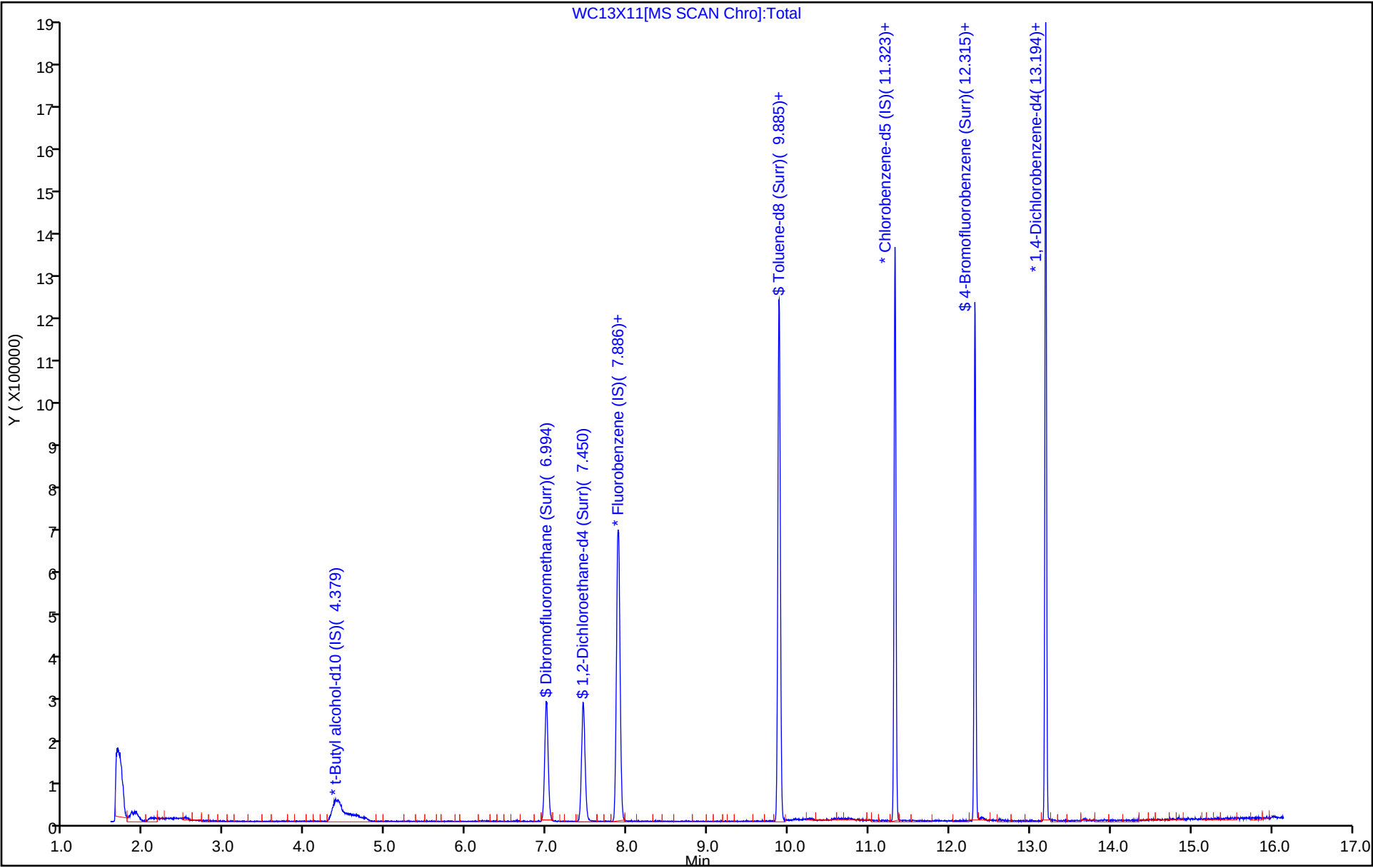
Reagents:

MSV_Cent_ISSS_00030

Amount Added: 5.00

Units: uL

Run Reagent



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X11.D
Lims ID: 410-191672-A-12
Client ID: HD-QC4-0/1-2
Sample Type: Client
Inject. Date: 13-Oct-2024 23:15:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127582-012
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 14-Oct-2024 04:31:11 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: N9NA

Date: 15-Oct-2024 11:20:52

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	52.8	105.58
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	49.6	99.18
\$ 84 Toluene-d8 (Surr)	50.0	50.1	100.16
\$ 114 4-Bromofluorobenzene (Surr)	50.0	49.0	98.00

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-MW-186-0/1-0

Lab Sample ID: 410-191672-13

Matrix: Water

Lab File ID: WC13X30.D

Analysis Method: 8260D

Date Collected: 10/09/2024 08:00

Sample wt/vol: 5 (mL)

Date Analyzed: 10/14/2024 06:09

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 562572

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND	^c cn	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-MW-186-0/1-0

Lab Sample ID: 410-191672-13

Matrix: Water

Lab File ID: WC13X30.D

Analysis Method: 8260D

Date Collected: 10/09/2024 08:00

Sample wt/vol: 5 (mL)

Date Analyzed: 10/14/2024 06:09

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 562572

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X30.D
 Lims ID: 410-191672-A-13
 Client ID: HD-MW-186-0/1-0
 Sample Type: Client
 Inject. Date: 14-Oct-2024 06:09:30 ALS Bottle#: 30 Worklist Smp#: 31
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127582-031
 Operator ID: gaw91131 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 15-Oct-2024 11:34:30 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1602

First Level Reviewer: N9NA

Date: 15-Oct-2024 11:34:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
7 Chloromethane	50		2.219				ND	
8 Vinyl chloride	62		2.335				ND	
11 Bromomethane	94		2.694				ND	
12 Chloroethane	64		2.781				ND	
21 1,1-Dichloroethene	96		3.696				ND	
20 Acetone	58		3.724				ND	
26 Carbon disulfide	76		4.020				ND	
30 Methylene Chloride	84		4.382				ND	
* 32 t-Butyl alcohol-d10 (IS)	65	4.398	4.389	0.009	8	286335	250.0	
35 trans-1,2-Dichloroethene	96		4.793				ND	
36 Methyl tert-butyl ether	73		4.799				ND	
38 1,1-Dichloroethane	63		5.467				ND	
44 2-Butanone (MEK)	43		6.285				ND	7
43 cis-1,2-Dichloroethene	96		6.304				ND	
50 Chlorobromomethane	128		6.638				ND	
52 Chloroform	83		6.786				ND	
\$ 54 Dibromofluoromethane (Surr)	113	6.998	7.001	-0.003	90	235766	53.5	
55 1,1,1-Trichloroethane	97		7.020				ND	
58 Carbon tetrachloride	117		7.219				ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.457	7.460	-0.003	69	60254	52.4	
61 Benzene	78		7.488				ND	
62 1,2-Dichloroethane	62		7.562				ND	
* 65 Fluorobenzene (IS)	96	7.890	7.896	-0.006	99	917809	50.0	
68 Trichloroethene	95		8.371				ND	
71 1,2-Dichloropropane	63		8.708				ND	
77 Dichlorobromomethane	83		9.051				ND	
81 cis-1,3-Dichloropropene	75		9.587				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.760				ND	
\$ 84 Toluene-d8 (Surr)	98	9.886	9.886	0.000	93	903694	49.6	
85 Toluene	92		9.963				ND	
86 trans-1,3-Dichloropropene	75		10.216				ND	7
88 1,1,2-Trichloroethane	97		10.418				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
90 Tetrachloroethene	166		10.498				ND	
94 2-Hexanone	43		10.630				ND	
96 Chlorodibromomethane	129		10.787				ND	
98 Ethylene Dibromide	107		10.900				ND	
S 178 Xylenes, Total	106		11.245				ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.326	-0.003	84	689508	50.0	
102 Chlorobenzene	112		11.352				ND	
104 1,1,1,2-Tetrachloroethane	131		11.432				ND	
105 Ethylbenzene	91		11.435				ND	7
106 m-Xylene & p-Xylene	106		11.548				ND	
108 o-Xylene	106		11.875				ND	
109 Styrene	104		11.891				ND	
110 Bromoform	173		12.048				ND	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.318	12.318	0.000	90	326662	47.7	
116 1,1,2,2-Tetrachloroethane	83		12.421				ND	
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.194	0.000	95	392650	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

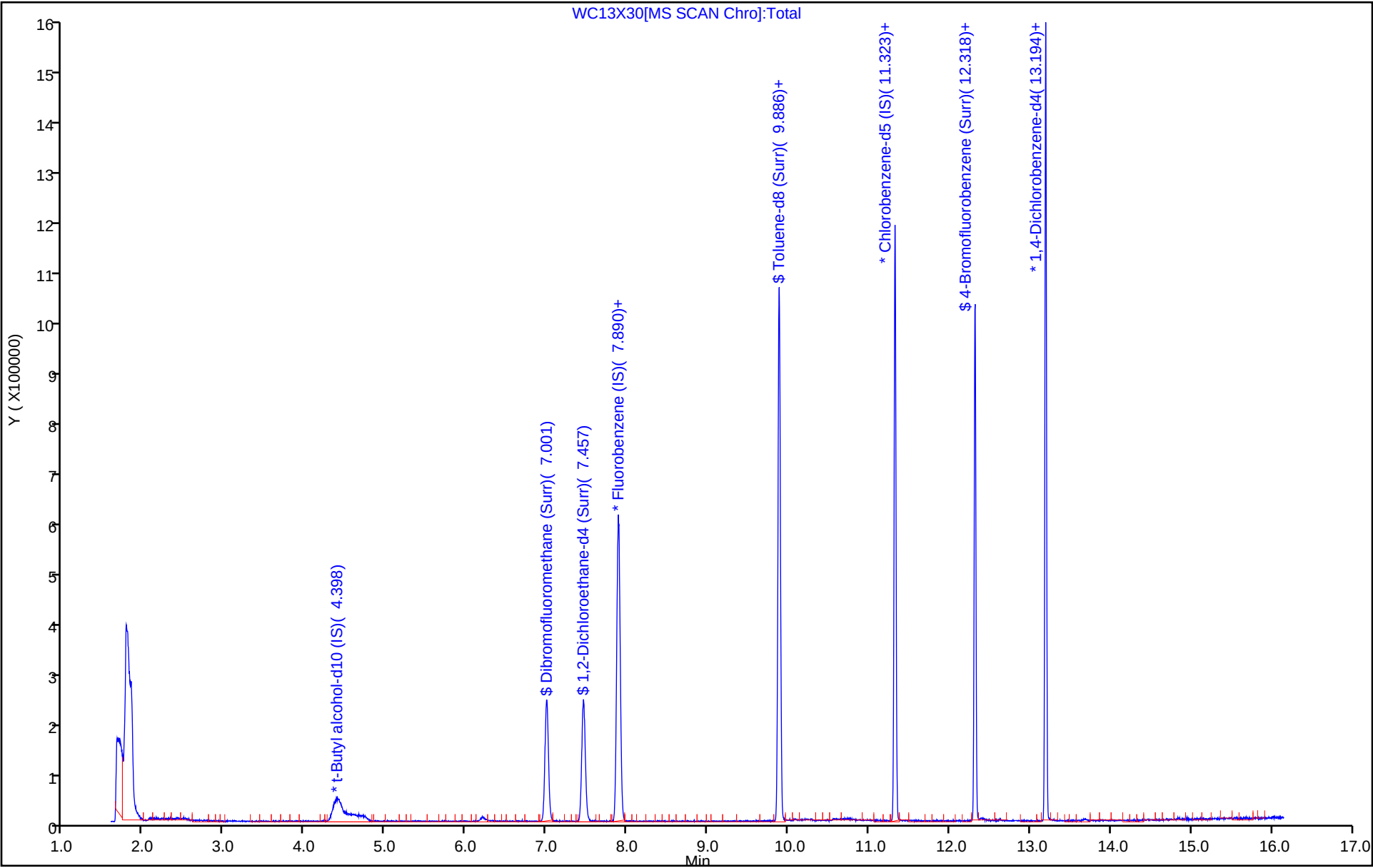
Reagents:

MSV_Cent_ISSS_00030

Amount Added: 5.00

Units: uL

Run Reagent



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X30.D
Lims ID: 410-191672-A-13
Client ID: HD-MW-186-0/1-0
Sample Type: Client
Inject. Date: 14-Oct-2024 06:09:30 ALS Bottle#: 30 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127582-031
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 15-Oct-2024 11:34:30 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1602

First Level Reviewer: N9NA

Date: 15-Oct-2024 11:34:55

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	53.5	106.96
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	52.4	104.77
\$ 84 Toluene-d8 (Surr)	50.0	49.6	99.27
\$ 114 4-Bromofluorobenzene (Surr)	50.0	47.7	95.46

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1 Analy Batch No.: 557456
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 19:14 Calibration End Date: 09/30/2024 21:03 Calibration ID: 66266

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-557456/3	WS30X02.D
Level 2	IC 410-557456/4	WS30X03.D
Level 3	IC 410-557456/5	WS30X04.D
Level 4	IC 410-557456/6	WS30X05.D
Level 5	IC 410-557456/7	WS30X06.D
Level 6	IC 410-557456/8	WS30X07.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	0.3576 0.3491	0.3535	0.4166	0.3955	0.3766	Ave		0.374 8				7.1		20.0			
Chlorodifluoromethane	10.488 7.9285	9.8434	10.422	9.5766	8.6775	Ave		9.489 3				10.6		20.0			
Freon 133a	0.4970 0.4286	0.4611	0.5192	0.4759	0.4608	Ave		0.473 7				6.7		20.0			
Ethyl ether	0.1944 0.1907	0.2112	0.2126	0.1981	0.1974	Ave		0.200 7				4.5		20.0			
Acetonitrile	1.2504 1.0051	1.3536	1.1775	1.0633	1.0043	Ave		1.142 4				12.5		20.0			
Vinyl acetate	0.5822 0.5048	0.5575	0.5603	0.5170	0.5031	Ave		0.537 5				6.2		20.0			
Ethyl acetate	0.3681 0.3423	0.3850	0.3734	0.3406	0.3414	Ave		0.358 5				5.4		20.0			
Isopropyl acetate	0.6754 0.6192	0.6878	0.6651	0.6242	0.6233	Ave		0.649 2				4.7		20.0			
n-Propyl acetate	0.1503 0.1461	0.1543	0.1550	0.1415	0.1437	Ave		0.148 5				3.8		20.0			
3,4-Dichloro-1-butene	0.3838 0.3988	0.4080	0.3968	0.3816	0.3843	Ave		0.392 2				2.7		20.0			
Butyl acetate	0.7683 0.7144	0.7572	0.7671	0.7146	0.7082	Ave		0.738 3				3.9		20.0			
cis-1,4-Dichloro-2-butene	0.1834 0.2080	0.1935	0.1894	0.1902	0.1937	Ave		0.193 0				4.3		20.0			
Pentachloroethane	0.3372 0.3621	0.3243	0.3473	0.3509	0.3389	Ave		0.343 5				3.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

Analy Batch No.: 557456

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 19:14 Calibration End Date: 09/30/2024 21:03 Calibration ID: 66266

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-557456/3	WS30X02.D
Level 2	IC 410-557456/4	WS30X03.D
Level 3	IC 410-557456/5	WS30X04.D
Level 4	IC 410-557456/6	WS30X05.D
Level 5	IC 410-557456/7	WS30X06.D
Level 6	IC 410-557456/8	WS30X07.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Ave	31130 2302939	80427	179140	445487	845673	4.00 300	10.0	20.0	50.0	100
Chlorodifluoromethane	TBAd1 0	Ave	62794 3458282	138130	283045	677402	1272740	4.00 300	10.0	20.0	50.0	100
Freon 133a	FB	Ave	43259 2826770	104892	223236	536092	1034779	4.00 300	10.0	20.0	50.0	100
Ethyl ether	FB	Ave	16916 1258010	48051	91388	223088	443254	4.00 300	10.00	20.0	50.0	100.0
Acetonitrile	TBAd1 0	Ave	37433 2192072	94973	159902	376064	736543	20.0 1500	50.0	100	250	500
Vinyl acetate	FB	Ave	50680 3329814	126839	240903	582418	1129668	4.00 300	10.0	20.0	50.0	100
Ethyl acetate	FB	Ave	32044 2257577	87590	160571	383721	766705	4.00 300	10.0	20.0	50.0	100
Isopropyl acetate	FB	Ave	58792 4084511	156463	285995	703123	1399635	4.00 300	10.0	20.0	50.0	100
n-Propyl acetate	FB	Ave	13079 963930	35092	66651	159354	322796	4.00 300	10.0	20.0	50.0	100
3,4-Dichloro-1-butene	CBZd5	Ave	24979 1967963	69421	126570	321679	643973	4.00 300	10.00	20.0	50.0	100.0
Butyl acetate	CBZd5	Ave	50000 3525005	128821	244698	602460	1186802	4.00 300	10.0	20.0	50.0	100
cis-1,4-Dichloro-2-butene	CBZd5	Ave	11935 1026171	32922	60419	160286	324595	4.00 300	10.00	20.0	50.0	100.0
Pentachloroethane	DCBd4	Ave	12527 1019173	31960	64505	170398	330493	4.00 300	10.0	20.0	50.0	100

Curve Type Legend:

Ave = Average ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1 Analy Batch No.: 557456
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 19:14 Calibration End Date: 09/30/2024 21:03 Calibration ID: 66266

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-557456/3	WS30X02.D
Level 2	IC 410-557456/4	WS30X03.D
Level 3	IC 410-557456/5	WS30X04.D
Level 4	IC 410-557456/6	WS30X05.D
Level 5	IC 410-557456/7	WS30X06.D
Level 6	IC 410-557456/8	WS30X07.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Chlorotrifluoroethene	-4.6	-5.7	11.1	5.5	0.5	-6.9	50	30	30	30	30	30
Chlorodifluoromethane	10.5	3.7	9.8	0.9	-8.6	-16.4	50	30	30	30	30	30
Freon 133a	4.9	-2.7	9.6	0.5	-2.7	-9.5	50	30	30	30	30	30
Ethyl ether	-3.2	5.2	5.9	-1.3	-1.7	-5.0	50	30	30	30	30	30
Acetonitrile	9.5	18.5	3.1	-6.9	-12.1	-12.0	50	30	30	30	30	30
Vinyl acetate	8.3	3.7	4.2	-3.8	-6.4	-6.1	50	30	30	30	30	30
Ethyl acetate	2.7	7.4	4.2	-5.0	-4.8	-4.5	50	30	30	30	30	30
Isopropyl acetate	4.0	5.9	2.5	-3.8	-4.0	-4.6	50	30	30	30	30	30
n-Propyl acetate	1.2	3.9	4.4	-4.7	-3.2	-1.6	50	30	30	30	30	30
3,4-Dichloro-1-butene	-2.1	4.0	1.2	-2.7	-2.0	1.7	50	30	30	30	30	30
Butyl acetate	4.1	2.6	3.9	-3.2	-4.1	-3.2	50	30	30	30	30	30
cis-1,4-Dichloro-2-butene	-5.0	0.3	-1.9	-1.5	0.4	7.7	50	30	30	30	30	30
Pentachloroethane	-1.8	-5.6	1.1	2.2	-1.3	5.4	50	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X02.D
 Lims ID: IC sm v4
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 30-Sep-2024 19:14:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0126367-003
 Misc. Info.: IC SM V4
 Operator ID: MCD07824 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub38
 Method: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Oct-2024 09:08:30 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1618

First Level Reviewer: DVW2

Date: 01-Oct-2024 08:23:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Chlorotrifluoroethene	116	1.963	1.969	-0.006	91	31130	4.00	3.82	
5 Chlorodifluoromethane	51	2.011	2.021	-0.010	71	62794	4.00	4.42	
10 2-Chloro-1,1,1-Trifluoroethane	118	2.428	2.428	0.000	32	43259	4.00	4.20	a
16 Ethyl ether	59	3.349	3.349	0.000	91	16916	4.00	3.87	
29 Acetonitrile	41	4.129	4.138	-0.009	97	37433	20.0	21.9	
* 32 t-Butyl alcohol-d10 (IS)	65	4.418	4.418	0.000	22	374208	250.0	250.0	
39 Vinyl acetate	43	5.454	5.464	-0.010	95	50680	4.00	4.33	
46 Ethyl acetate	43	6.324	6.330	-0.006	98	32044	4.00	4.11	
63 Isopropyl acetate	43	7.569	7.572	-0.003	97	58792	4.00	4.16	
* 65 Fluorobenzene (IS)	96	7.886	7.893	-0.007	99	1088095	50.0	50.0	
76 n-Propyl acetate	61	8.862	8.862	0.000	98	13079	4.00	4.05	a
124 2,3,4-Trichlorobutene	109		9.417				ND	ND	
93 3,4-Dichloro-1-butene	75	10.614	10.614	0.000	92	24979	4.00	3.91	
97 n-Butyl acetate	43	10.742	10.739	0.003	98	50000	4.00	4.16	
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.327	-0.004	84	813516	50.0	50.0	
112 cis-1,4-Dichloro-2-butene	88	12.222	12.222	0.000	25	11935	4.00	3.80	a
126 Pentachloroethane	167	12.908	12.915	-0.007	88	12527	4.00	3.93	
* 133 1,4-Dichlorobenzene-d4	152	13.197	13.194	0.003	95	464356	50.0	50.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

MSV_CCV_Penta_00054	Amount Added: 4.00	Units: uL
MSV_CCV_EE_00007	Amount Added: 4.00	Units: uL
MSV_CCV_V5ACE_00040	Amount Added: 4.00	Units: uL
MSV_Cent_ISO_00005	Amount Added: 5.00	Units: uL
MSV_CCV_LKB_00011	Amount Added: 4.00	Units: uL
MSV_V_SMFreon_00050	Amount Added: 2.00	Units: uL

Report Date: 01-Oct-2024 09:08:30

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X02.D

Injection Date: 30-Sep-2024 19:14:30

Instrument ID: 9137

Operator ID: MCD07824

Lims ID: IC sm v4

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

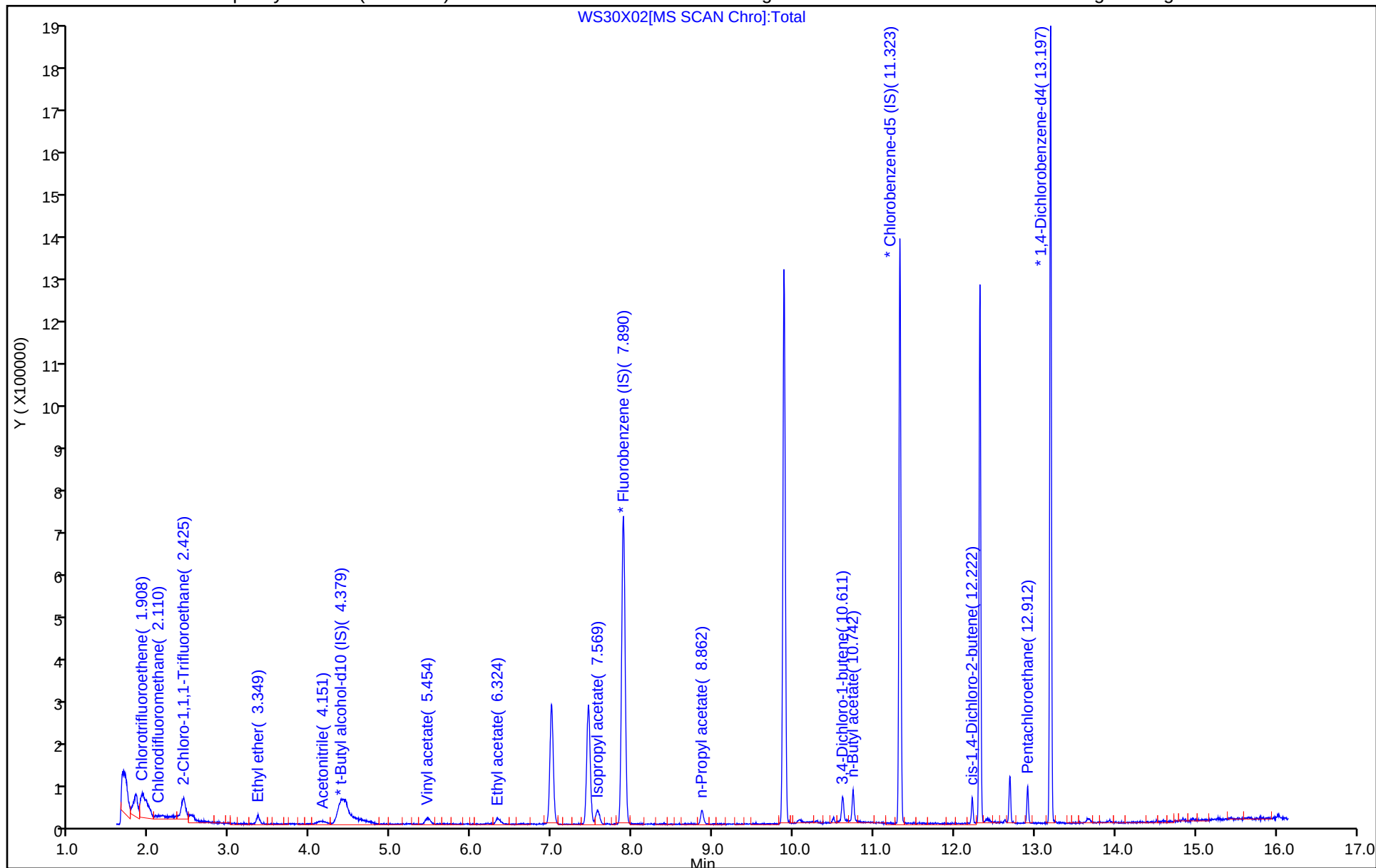
ALS Bottle#: 2

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC

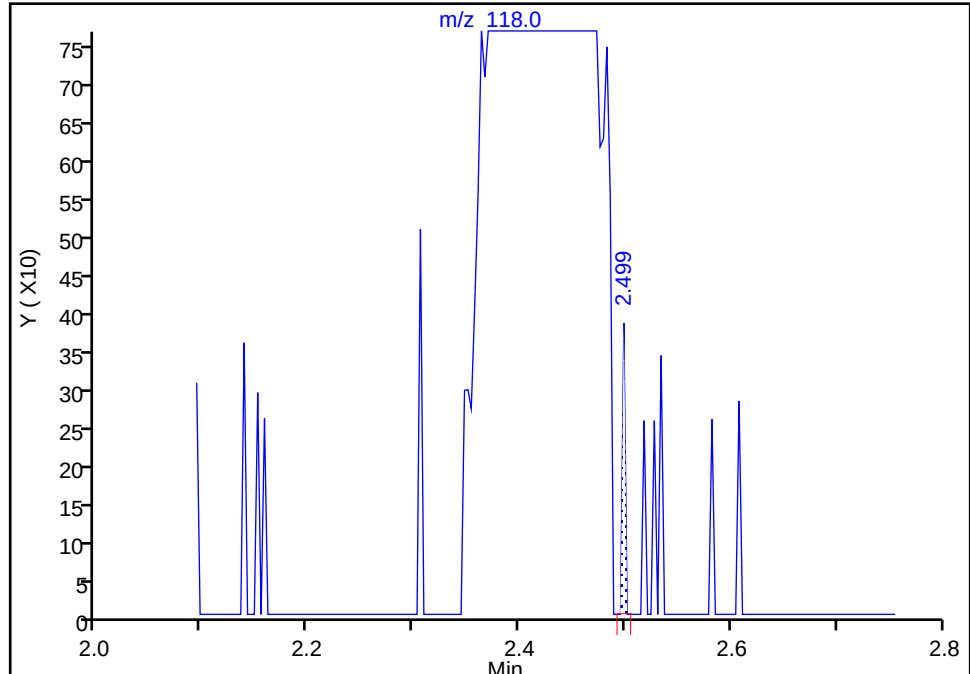
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Injection Date: 30-Sep-2024 19:14:30 Instrument ID: 9137
Lims ID: IC sm v4
Client ID:
Operator ID: MCD07824 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

10 2-Chloro-1,1,1-Trifluoroethane, CAS: 75-88-7

Signal: 1

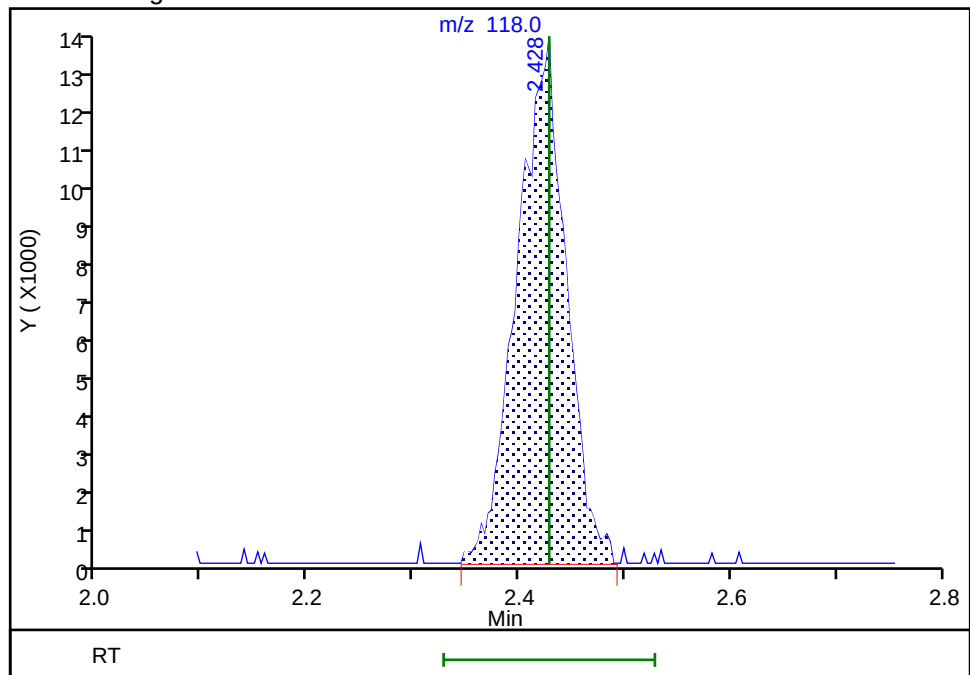
RT: 2.50
Area: 74
Amount: 0.010814
Amount Units: ug/l

Processing Integration Results



RT: 2.43
Area: 43259
Amount: 4.195999
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:23:01 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

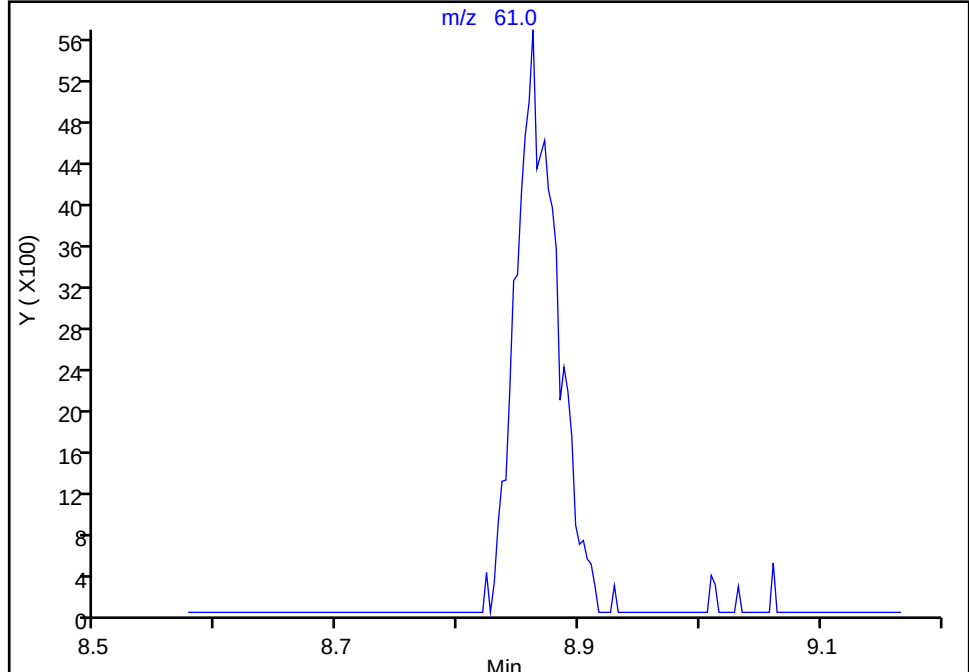
Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.bWS30X02.D
Injection Date: 30-Sep-2024 19:14:30 Instrument ID: 9137
Lims ID: IC sm v4
Client ID:
Operator ID: MCD07824 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

76 n-Propyl acetate, CAS: 109-60-4

Signal: 1

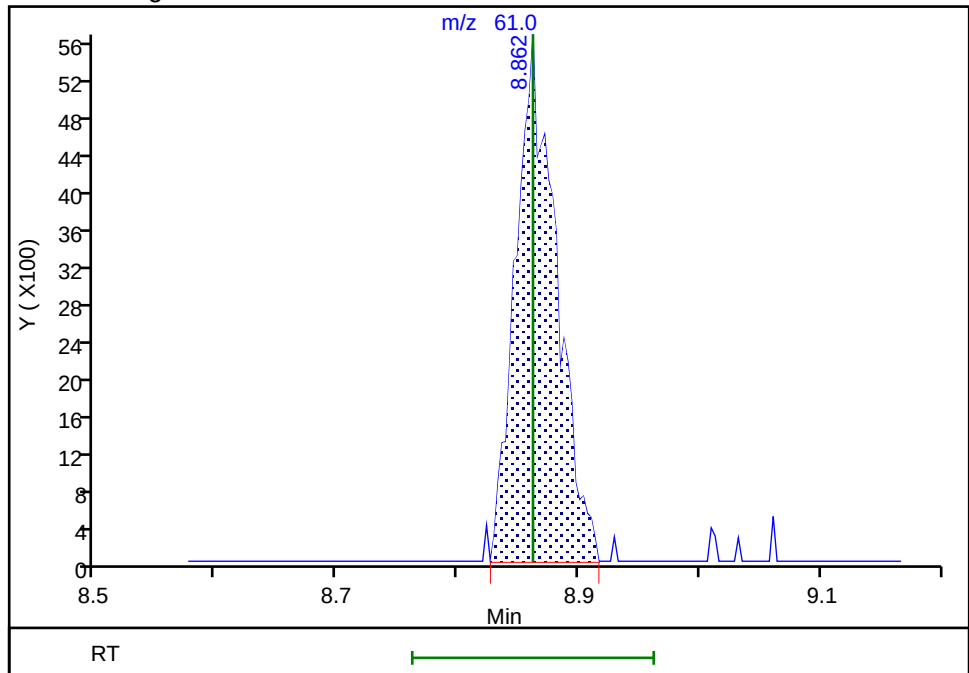
Not Detected
Expected RT: 8.86

Processing Integration Results



RT: 8.86
Area: 13079
Amount: 4.047806
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 09:05:17 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

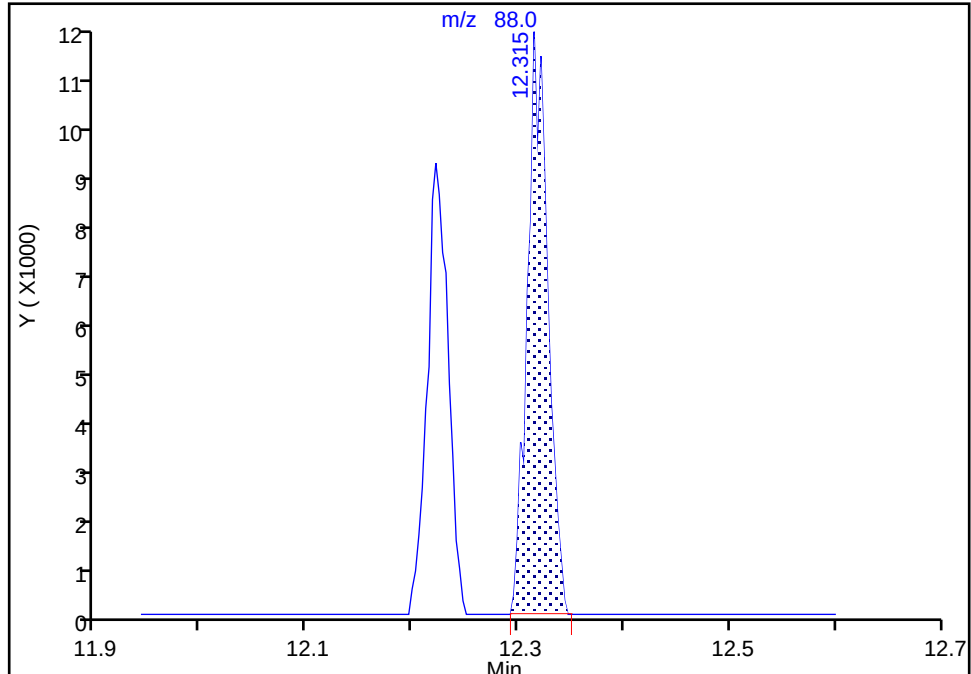
Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.bWS30X02.D
Injection Date: 30-Sep-2024 19:14:30 Instrument ID: 9137
Lims ID: IC sm v4
Client ID:
Operator ID: MCD07824 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

112 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

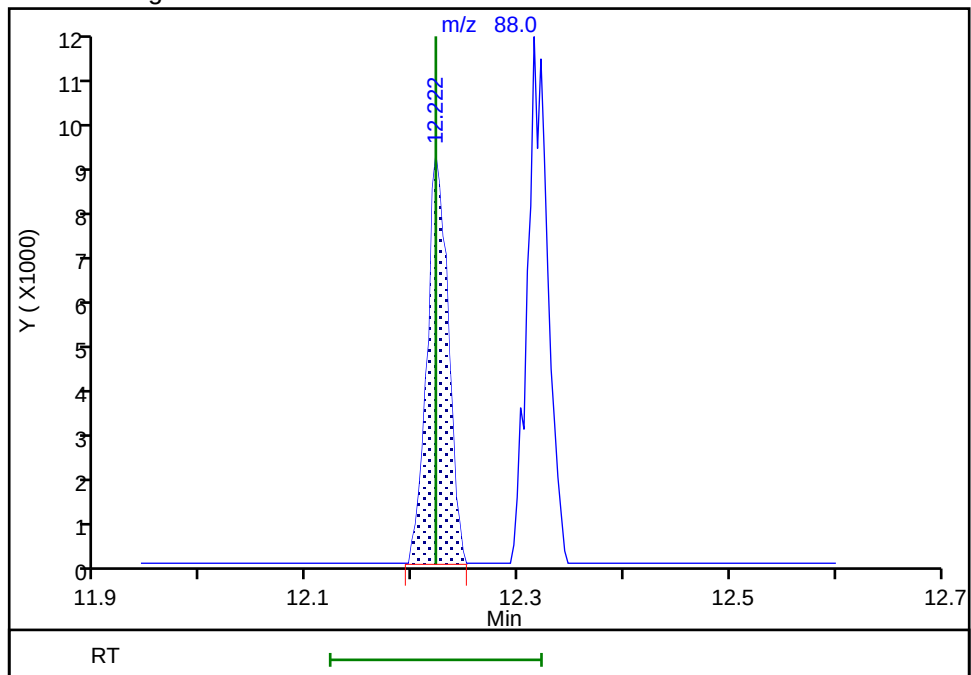
RT: 12.31
Area: 14894
Amount: 5.685273
Amount Units: ug/l

Processing Integration Results



RT: 12.22
Area: 11935
Amount: 3.799936
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:23:18 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X03.D
 Lims ID: IC sm v10
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 30-Sep-2024 19:35:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0126367-004
 Misc. Info.: IC SM V10
 Operator ID: MCD07824 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub38
 Method: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Oct-2024 09:08:33 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1618

First Level Reviewer: DVW2

Date: 01-Oct-2024 08:23:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Chlorotrifluoroethene	116	1.953	1.969	-0.016	92	80427	10.0	9.43	
5 Chlorodifluoromethane	51	2.011	2.021	-0.010	97	138130	10.0	10.4	
10 2-Chloro-1,1,1-Trifluoroethane	118	2.425	2.428	-0.003	47	104892	10.0	9.73	a
16 Ethyl ether	59	3.349	3.349	0.000	90	48051	10.0	10.5	
29 Acetonitrile	41	4.151	4.138	0.013	97	94973	50.0	59.2	
* 32 t-Butyl alcohol-d10 (IS)	65	4.386	4.418	-0.032	32	350820	250.0	250.0	
39 Vinyl acetate	43	5.461	5.464	-0.003	97	126839	10.0	10.4	
46 Ethyl acetate	43	6.327	6.330	-0.003	99	87590	10.0	10.7	
63 Isopropyl acetate	43	7.566	7.572	-0.006	98	156463	10.0	10.6	
* 65 Fluorobenzene (IS)	96	7.890	7.893	-0.003	99	1137487	50.0	50.0	
76 n-Propyl acetate	61	8.868	8.862	0.006	97	35092	10.0	10.4	a
124 2,3,4-Trichlorobutene	109		9.417				ND	ND	
93 3,4-Dichloro-1-butene	75	10.617	10.614	0.003	93	69421	10.0	10.4	
97 n-Butyl acetate	43	10.742	10.739	0.003	98	128821	10.0	10.3	
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.327	-0.004	84	850679	50.0	50.0	
112 cis-1,4-Dichloro-2-butene	88	12.225	12.222	0.003	25	32922	10.0	10.0	a
126 Pentachloroethane	167	12.912	12.915	-0.003	90	31960	10.0	9.44	
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.194	0.000	95	492758	50.0	50.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

MSV_CCV_Penta_00054	Amount Added: 2.00	Units: uL
MSV_CCV_EE_00007	Amount Added: 2.00	Units: uL
MSV_CCV_V5ACE_00040	Amount Added: 2.00	Units: uL
MSV_Cent_ISO_00005	Amount Added: 5.00	Units: uL
MSV_CCV_LKB_00011	Amount Added: 2.00	Units: uL
MSV_V_SMFreon_00050	Amount Added: 1.00	Units: uL

Report Date: 01-Oct-2024 09:08:34

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X03.D

Injection Date: 30-Sep-2024 19:35:30

Instrument ID: 9137

Operator ID: MCD07824

Lims ID: IC sm v10

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

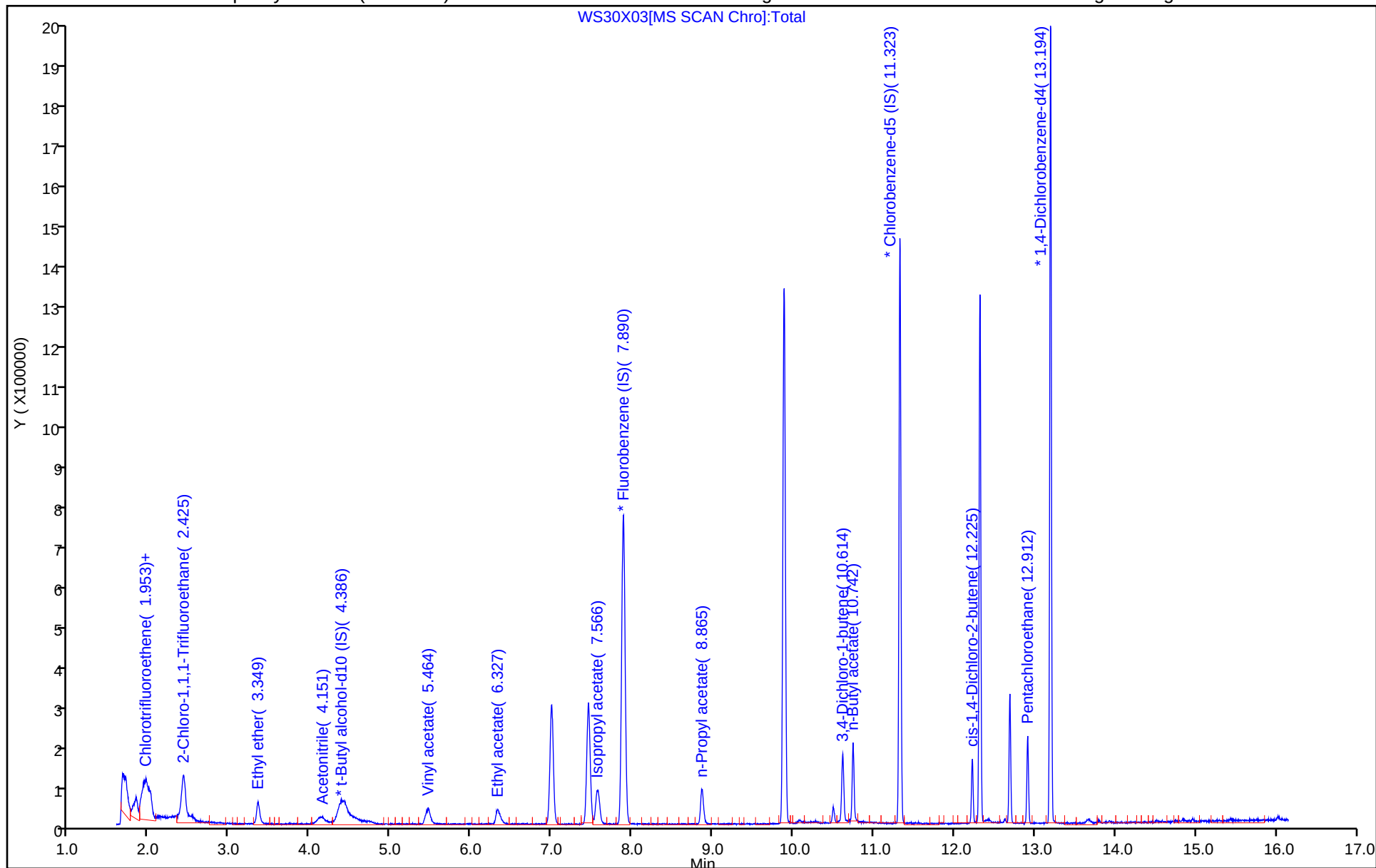
ALS Bottle#: 3

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC

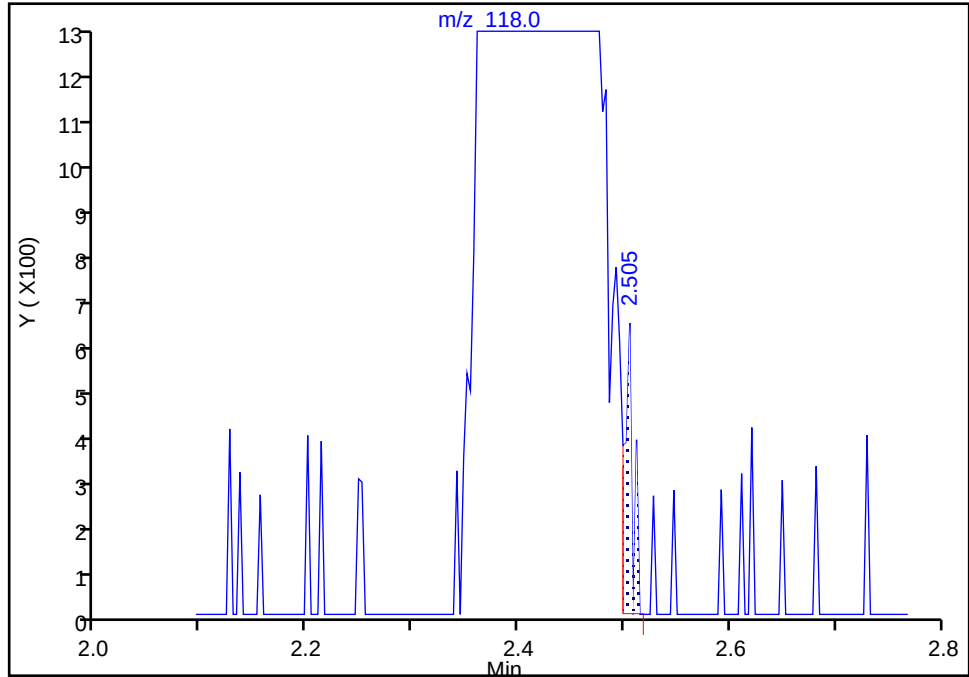
Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.bWS30X03.D
Injection Date: 30-Sep-2024 19:35:30 Instrument ID: 9137
Lims ID: IC sm v10
Client ID:
Operator ID: MCD07824 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

10 2-Chloro-1,1,1-Trifluoroethane, CAS: 75-88-7

Signal: 1

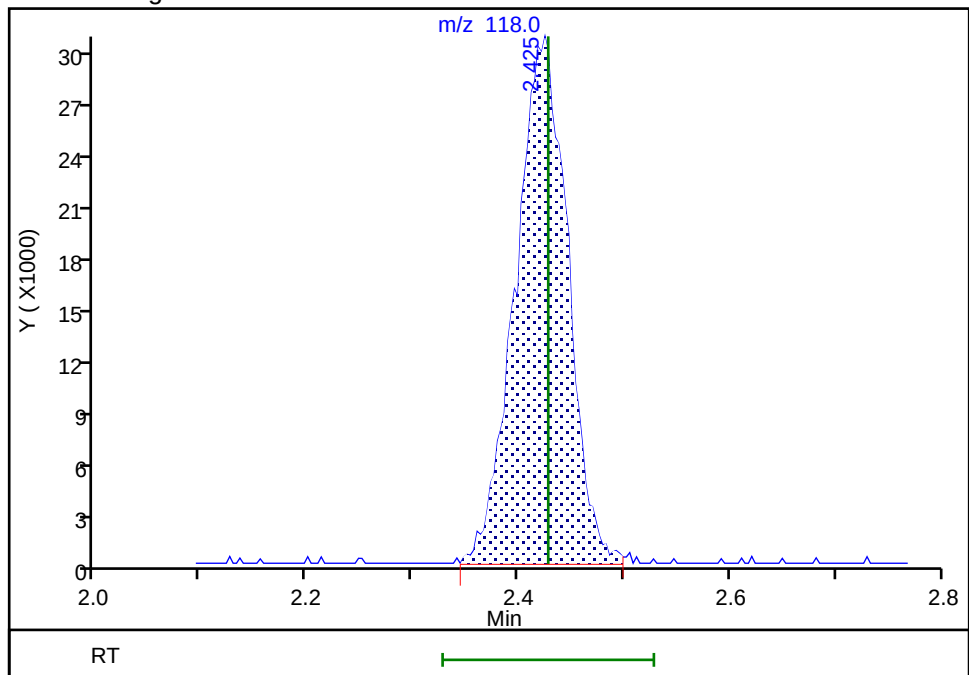
RT: 2.51
Area: 330
Amount: 0.036525
Amount Units: ug/l

Processing Integration Results



RT: 2.42
Area: 104892
Amount: 9.732438
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:23:30 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

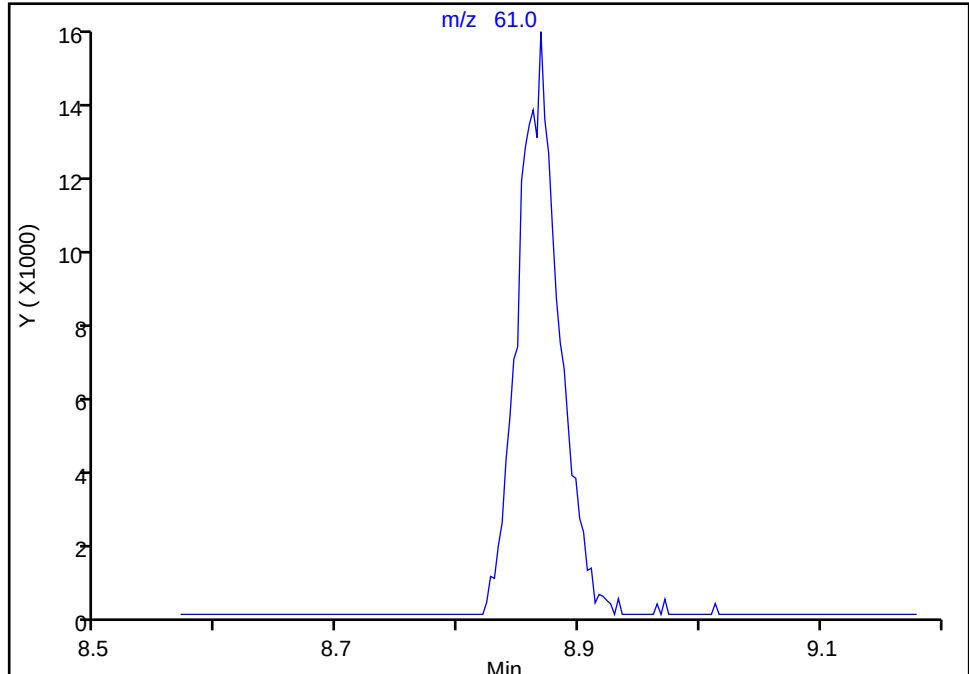
Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X03.D
Injection Date: 30-Sep-2024 19:35:30 Instrument ID: 9137
Lims ID: IC sm v10
Client ID:
Operator ID: MCD07824 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

76 n-Propyl acetate, CAS: 109-60-4

Signal: 1

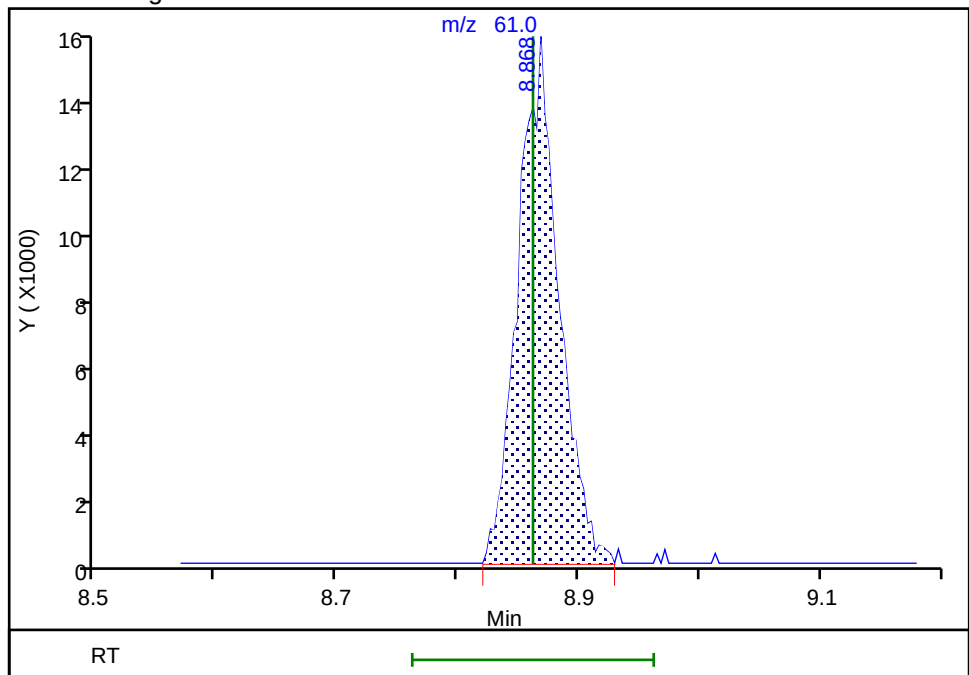
Not Detected
Expected RT: 8.86

Processing Integration Results



RT: 8.87
Area: 35092
Amount: 10.388997
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 09:05:09 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

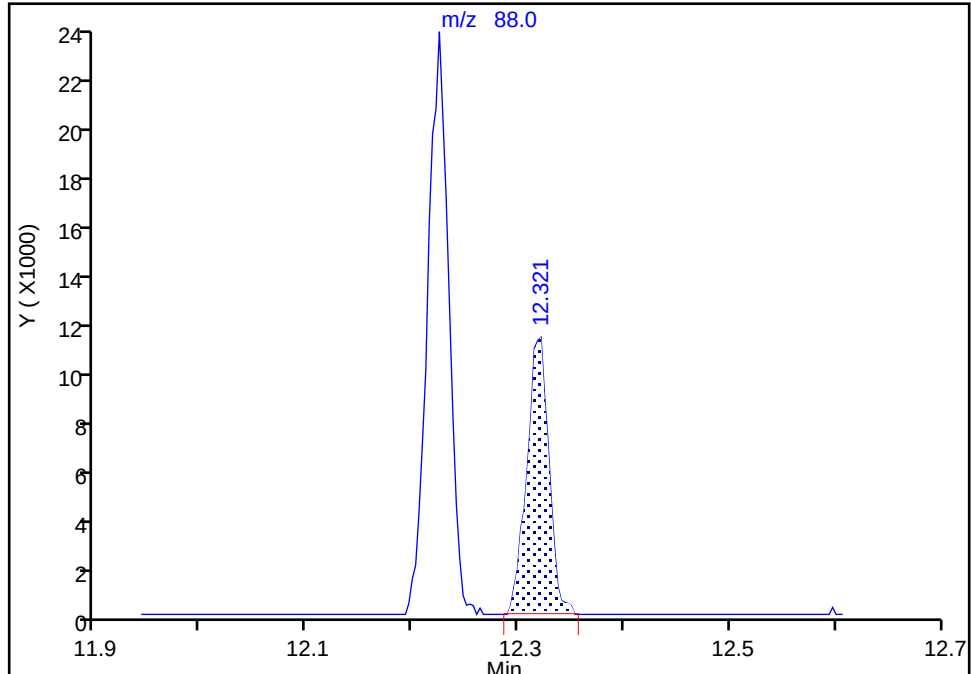
Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.bWS30X03.D
Injection Date: 30-Sep-2024 19:35:30 Instrument ID: 9137
Lims ID: IC sm v10
Client ID:
Operator ID: MCD07824 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

112 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

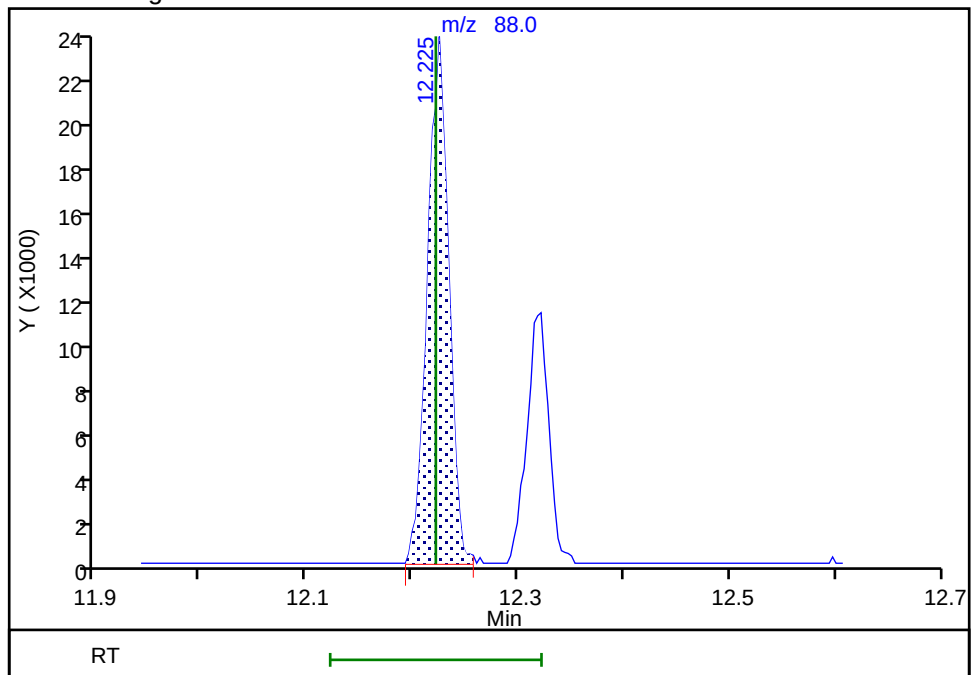
RT: 12.32
Area: 16300
Amount: 6.244050
Amount Units: ug/l

Processing Integration Results



RT: 12.22
Area: 32922
Amount: 10.023987
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:23:37 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X04.D
 Lims ID: IC sm v20
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 30-Sep-2024 19:57:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0126367-005
 Misc. Info.: IC SM V20
 Operator ID: MCD07824 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub38
 Method: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Oct-2024 09:08:36 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1618

First Level Reviewer: DVW2

Date: 01-Oct-2024 08:23:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Chlorotrifluoroethene	116	1.966	1.969	-0.003	91	179140	20.0	22.2	
5 Chlorodifluoromethane	51	2.011	2.021	-0.010	97	283045	20.0	22.0	
10 2-Chloro-1,1,1-Trifluoroethane	118	2.428	2.428	0.000	34	223236	20.0	21.9	
16 Ethyl ether	59	3.349	3.349	0.000	90	91388	20.0	21.2	
29 Acetonitrile	41	4.158	4.138	0.020	98	159902	100.0	103.1	
* 32 t-Butyl alcohol-d10 (IS)	65	4.418	4.418	0.000	9	339486	250.0	250.0	
39 Vinyl acetate	43	5.461	5.464	-0.003	97	240903	20.0	20.8	
46 Ethyl acetate	43	6.330	6.330	0.000	99	160571	20.0	20.8	
63 Isopropyl acetate	43	7.566	7.572	-0.006	98	285995	20.0	20.5	
* 65 Fluorobenzene (IS)	96	7.890	7.893	-0.003	99	1074959	50.0	50.0	
76 n-Propyl acetate	61	8.869	8.862	0.006	99	66651	20.0	20.9	a
124 2,3,4-Trichlorobutene	109		9.417				ND	ND	
93 3,4-Dichloro-1-butene	75	10.611	10.614	-0.003	93	126570	20.0	20.2	
97 n-Butyl acetate	43	10.743	10.739	0.003	98	244698	20.0	20.8	
* 101 Chlorobenzene-d5 (IS)	117	11.327	11.327	0.000	84	797492	50.0	50.0	
112 cis-1,4-Dichloro-2-butene	88	12.225	12.222	0.003	25	60419	20.0	19.6	a
126 Pentachloroethane	167	12.915	12.915	0.000	91	64505	20.0	20.2	
* 133 1,4-Dichlorobenzene-d4	152	13.197	13.194	0.003	95	464348	50.0	50.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

MSV_CCV_Penta_00054	Amount Added: 4.00	Units: uL
MSV_CCV_EE_00007	Amount Added: 4.00	Units: uL
MSV_CCV_V5ACE_00040	Amount Added: 4.00	Units: uL
MSV_Cent_ISO_00005	Amount Added: 5.00	Units: uL
MSV_CCV_LKB_00011	Amount Added: 4.00	Units: uL
MSV_V_SMFreon_00050	Amount Added: 2.00	Units: uL

Report Date: 01-Oct-2024 09:08:36

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X04.D

Injection Date: 30-Sep-2024 19:57:30

Instrument ID: 9137

Operator ID: MCD07824

Lims ID: IC sm v20

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

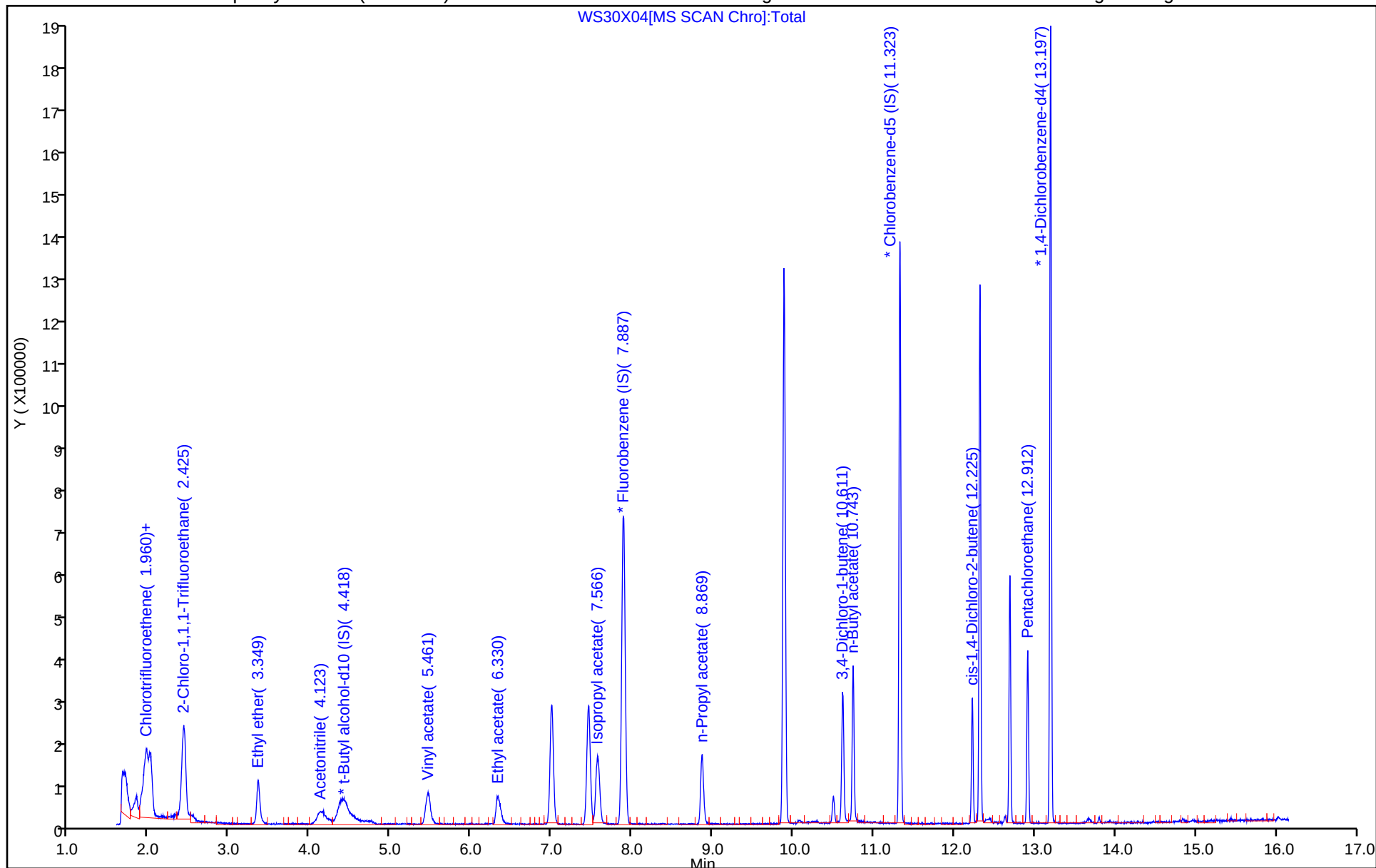
ALS Bottle#: 4

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC

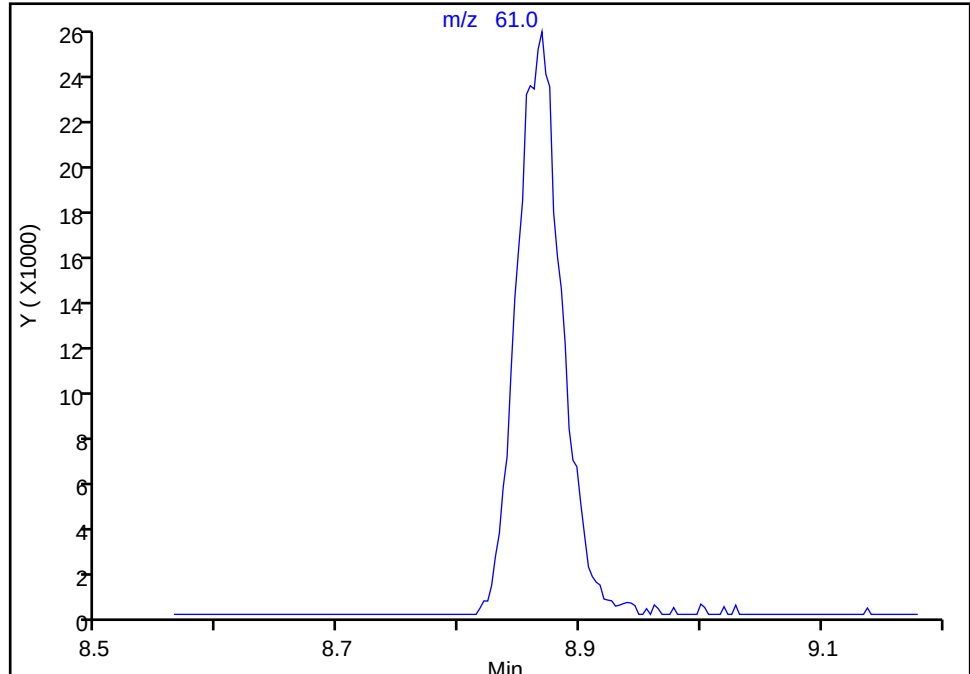
Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.bWS30X04.D
Injection Date: 30-Sep-2024 19:57:30 Instrument ID: 9137
Lims ID: IC sm v20
Client ID:
Operator ID: MCD07824 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

76 n-Propyl acetate, CAS: 109-60-4

Signal: 1

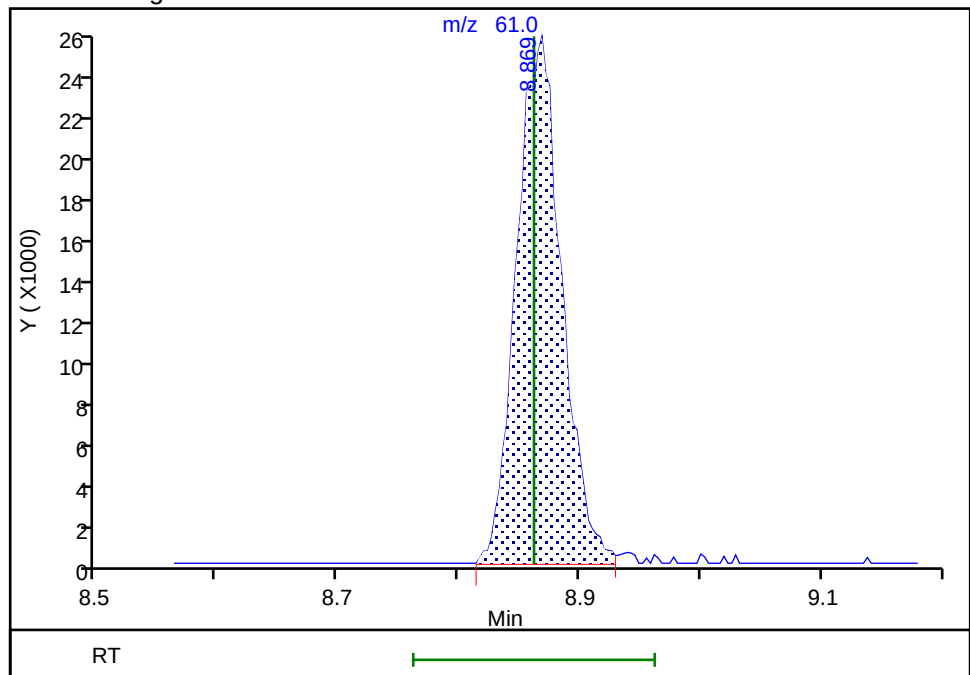
Not Detected
Expected RT: 8.86

Processing Integration Results



RT: 8.87
Area: 66651
Amount: 20.879817
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 09:05:04 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

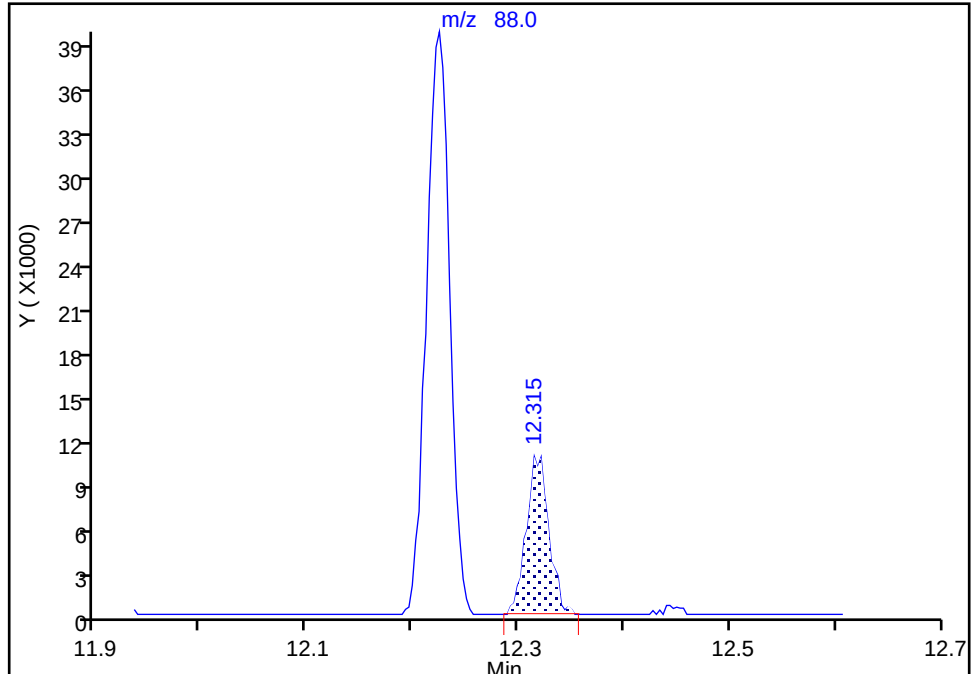
Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X04.D
Injection Date: 30-Sep-2024 19:57:30 Instrument ID: 9137
Lims ID: IC sm v20
Client ID:
Operator ID: MCD07824 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

112 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

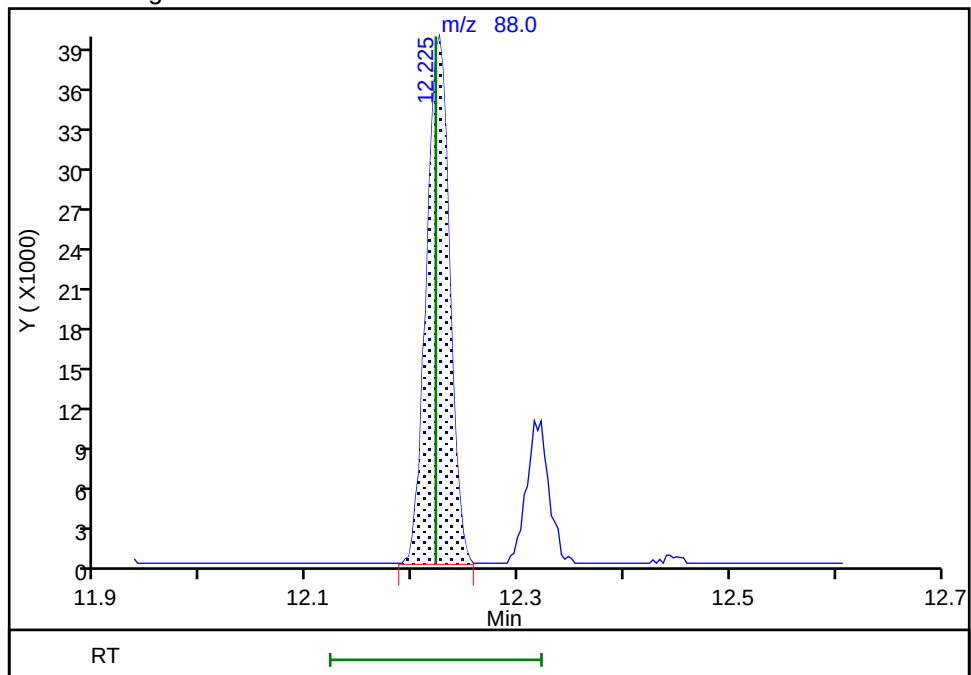
RT: 12.31
Area: 15790
Amount: 5.832988
Amount Units: ug/l

Processing Integration Results



RT: 12.23
Area: 60419
Amount: 19.623082
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:23:52 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X05.D
 Lims ID: IC sm v50
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 30-Sep-2024 20:19:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0126367-006
 Misc. Info.: IC SM V50
 Operator ID: MCD07824 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub38
 Method: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Oct-2024 09:08:39 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1618

First Level Reviewer: DVW2

Date: 01-Oct-2024 08:21:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Chlorotrifluoroethene	116	1.969	1.969	0.000	93	445487	50.0	52.8	
5 Chlorodifluoromethane	51	2.021	2.021	0.000	98	677402	50.0	50.5	
10 2-Chloro-1,1,1-Trifluoroethane	118	2.428	2.428	0.000	93	536092	50.0	50.2	
16 Ethyl ether	59	3.349	3.349	0.000	91	223088	50.0	49.3	
29 Acetonitrile	41	4.138	4.138	0.000	99	376064	250.0	232.7	
* 32 t-Butyl alcohol-d10 (IS)	65	4.411	4.411	0.000	14	353675	250.0	250.0	
39 Vinyl acetate	43	5.464	5.464	0.000	97	582418	50.0	48.1	
46 Ethyl acetate	43	6.330	6.330	0.000	98	383721	50.0	47.5	
63 Isopropyl acetate	43	7.572	7.572	0.000	98	703123	50.0	48.1	
* 65 Fluorobenzene (IS)	96	7.886	7.886	0.000	100	1126462	50.0	50.0	
76 n-Propyl acetate	61	8.862	8.862	0.000	98	159354	50.0	47.6	a
124 2,3,4-Trichlorobutene	109		9.417				ND	ND	
93 3,4-Dichloro-1-butene	75	10.614	10.614	0.000	93	321679	50.0	48.6	
97 n-Butyl acetate	43	10.739	10.739	0.000	98	602460	50.0	48.4	
* 101 Chlorobenzene-d5 (IS)	117	11.326	11.326	0.000	84	843020	50.0	50.0	
112 cis-1,4-Dichloro-2-butene	88	12.222	12.222	0.000	25	160286	50.0	49.2	a
126 Pentachloroethane	167	12.915	12.915	0.000	93	170398	50.0	51.1	
* 133 1,4-Dichlorobenzene-d4	152	13.197	13.197	0.000	95	485587	50.0	50.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

MSV_CCV_Penta_00054	Amount Added: 5.00	Units: uL
MSV_CCV_EE_00007	Amount Added: 5.00	Units: uL
MSV_CCV_V5ACE_00040	Amount Added: 5.00	Units: uL
MSV_Cent_ISO_00005	Amount Added: 5.00	Units: uL
MSV_CCV_LKB_00011	Amount Added: 5.00	Units: uL
MSV_V_SMFreon_00050	Amount Added: 2.50	Units: uL

Report Date: 01-Oct-2024 09:08:39

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X05.D

Injection Date: 30-Sep-2024 20:19:30

Instrument ID: 9137

Operator ID: MCD07824

Lims ID: IC sm v50

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

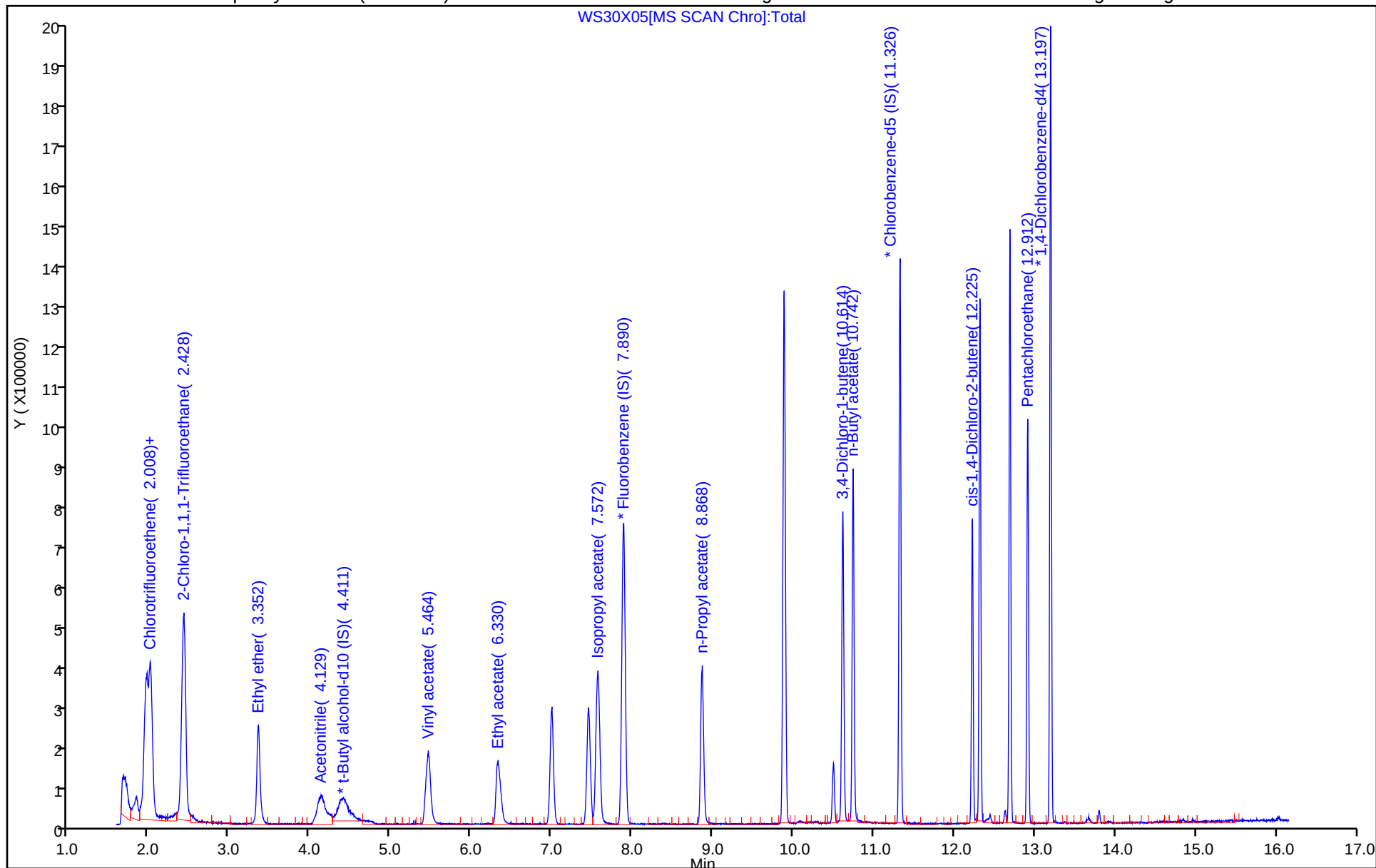
ALS Bottle#: 5

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC

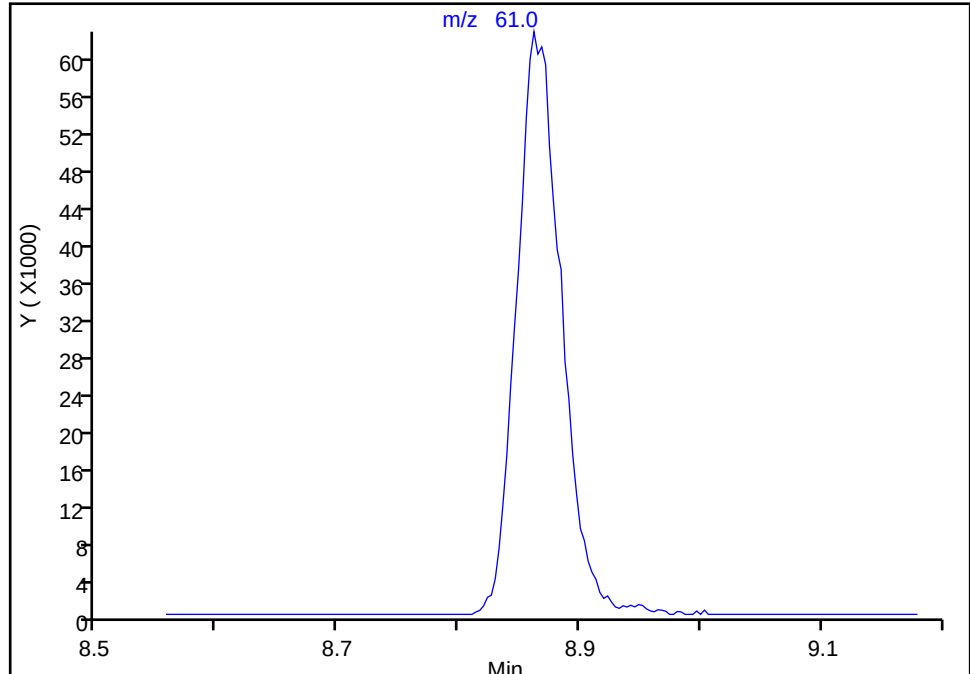
Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.bWS30X05.D
Injection Date: 30-Sep-2024 20:19:30 Instrument ID: 9137
Lims ID: IC sm v50
Client ID:
Operator ID: MCD07824 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

76 n-Propyl acetate, CAS: 109-60-4

Signal: 1

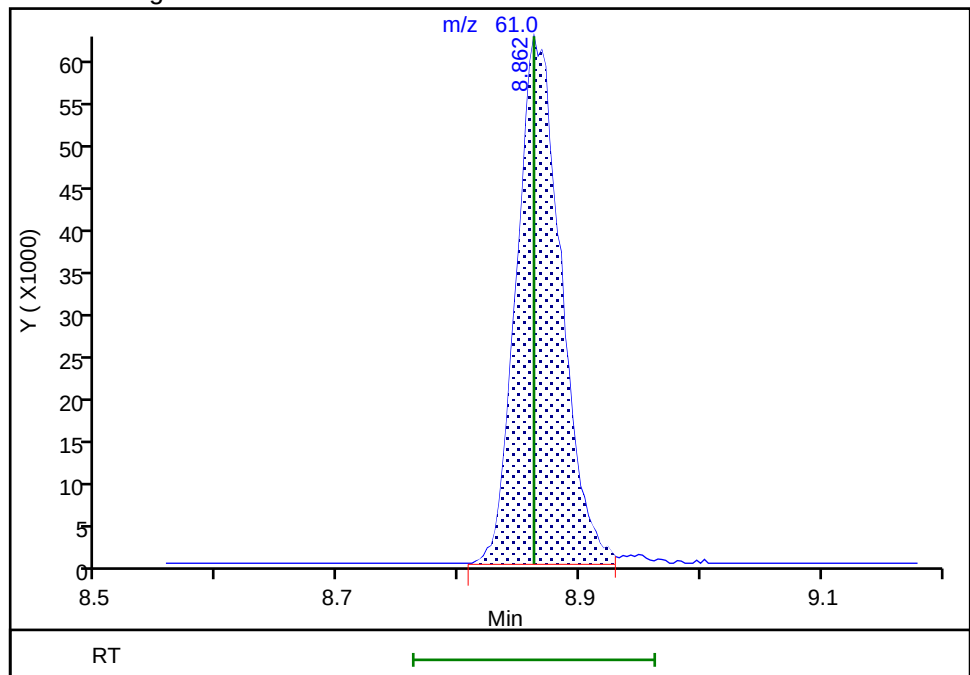
Not Detected
Expected RT: 8.86

Processing Integration Results



RT: 8.86
Area: 159354
Amount: 47.638530
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:43:42 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

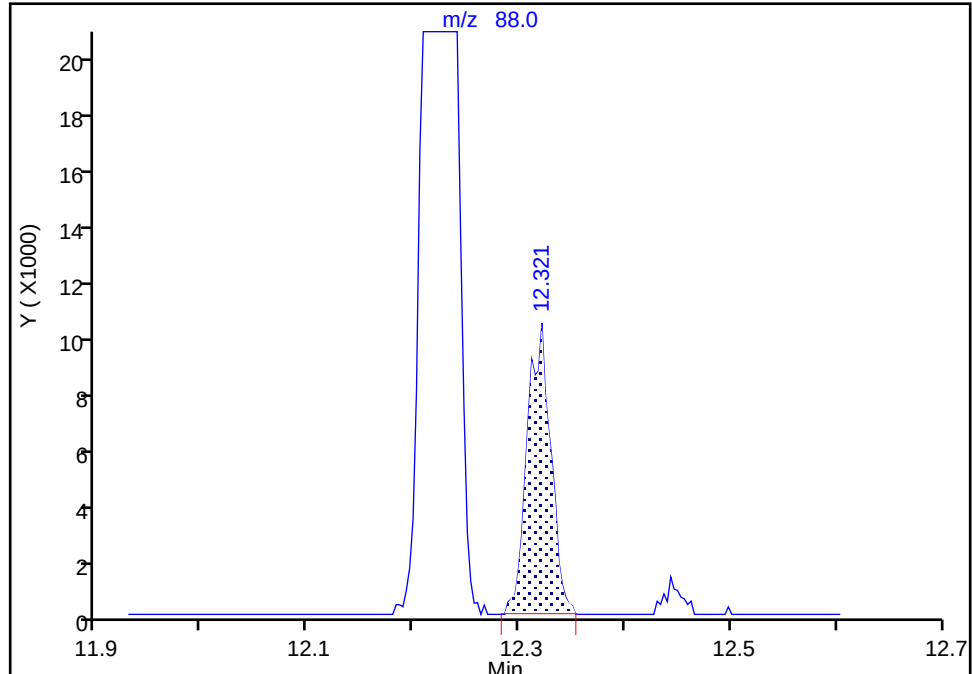
Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.bWS30X05.D
Injection Date: 30-Sep-2024 20:19:30 Instrument ID: 9137
Lims ID: IC sm v50
Client ID:
Operator ID: MCD07824 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

112 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

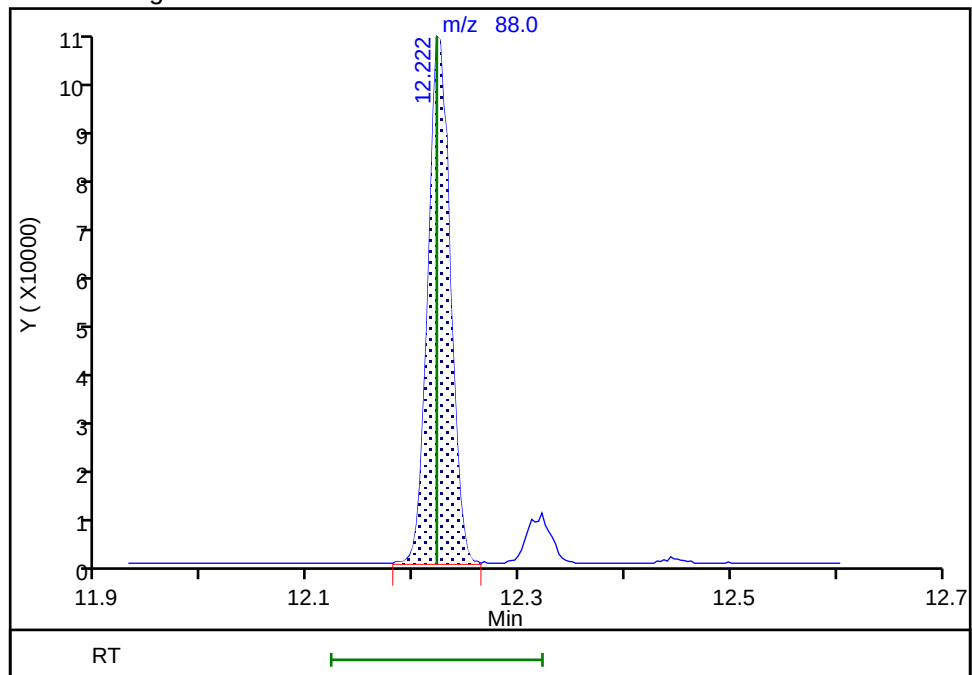
RT: 12.32
Area: 16019
Amount: 9.653904
Amount Units: ug/l

Processing Integration Results



RT: 12.22
Area: 160286
Amount: 49.246767
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:22:27 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X06.D
 Lims ID: IC sm v100
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 30-Sep-2024 20:41:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0126367-007
 Misc. Info.: IC SM V100
 Operator ID: MCD07824 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub38
 Method: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Oct-2024 09:08:43 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1618

First Level Reviewer: DVW2

Date: 01-Oct-2024 08:22:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Chlorotrifluoroethene	116	1.960	1.969	-0.009	94	845673	100.0	100.5	
5 Chlorodifluoromethane	51	2.017	2.021	-0.004	98	1272740	100.0	91.4	
10 2-Chloro-1,1,1-Trifluoroethane	118	2.428	2.428	0.000	44	1034779	100.0	97.3	
16 Ethyl ether	59	3.349	3.349	0.000	90	443254	100.0	98.3	
29 Acetonitrile	41	4.129	4.138	-0.009	98	736543	500.0	439.6	
* 32 t-Butyl alcohol-d10 (IS)	65	4.398	4.411	-0.013	17	366680	250.0	250.0	
39 Vinyl acetate	43	5.467	5.464	0.003	97	1129668	100.0	93.6	
46 Ethyl acetate	43	6.327	6.330	-0.003	99	766705	100.0	95.2	
63 Isopropyl acetate	43	7.569	7.572	-0.003	98	1399635	100.0	96.0	
* 65 Fluorobenzene (IS)	96	7.886	7.886	0.000	99	1122791	50.0	50.0	
76 n-Propyl acetate	61	8.865	8.862	0.003	98	322796	100.0	96.8	a
124 2,3,4-Trichlorobutene	109		9.417				ND	ND	
93 3,4-Dichloro-1-butene	75	10.614	10.614	0.000	94	643973	100.0	98.0	
97 n-Butyl acetate	43	10.742	10.739	0.003	98	1186802	100.0	95.9	
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.326	-0.003	91	837898	50.0	50.0	
112 cis-1,4-Dichloro-2-butene	88	12.225	12.222	0.003	29	324595	100.0	100.3	a
126 Pentachloroethane	167	12.912	12.915	-0.003	93	330493	100.0	98.7	
* 133 1,4-Dichlorobenzene-d4	152	13.197	13.197	0.000	95	487531	50.0	50.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

MSV_CCV_Penta_00054	Amount Added: 5.00	Units: uL
MSV_CCV_EE_00007	Amount Added: 5.00	Units: uL
MSV_CCV_V5ACE_00040	Amount Added: 5.00	Units: uL
MSV_Cent_ISO_00005	Amount Added: 5.00	Units: uL
MSV_CCV_LKB_00011	Amount Added: 5.00	Units: uL
MSV_V_SMFreon_00050	Amount Added: 2.50	Units: uL

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X06.D

Injection Date: 30-Sep-2024 20:41:30

Instrument ID: 9137

Operator ID: MCD07824

Lims ID: IC sm v100

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

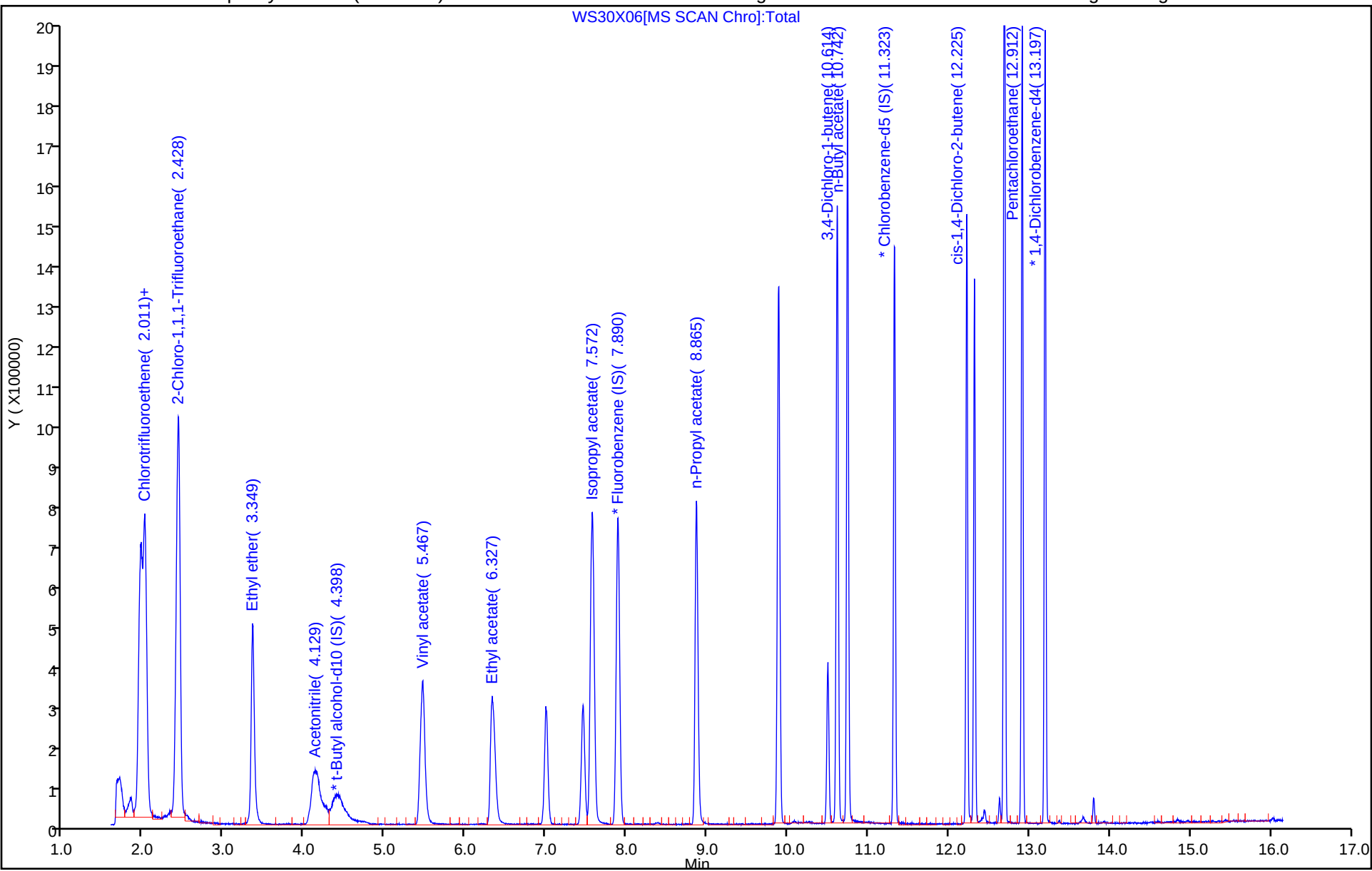
ALS Bottle#: 6

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC

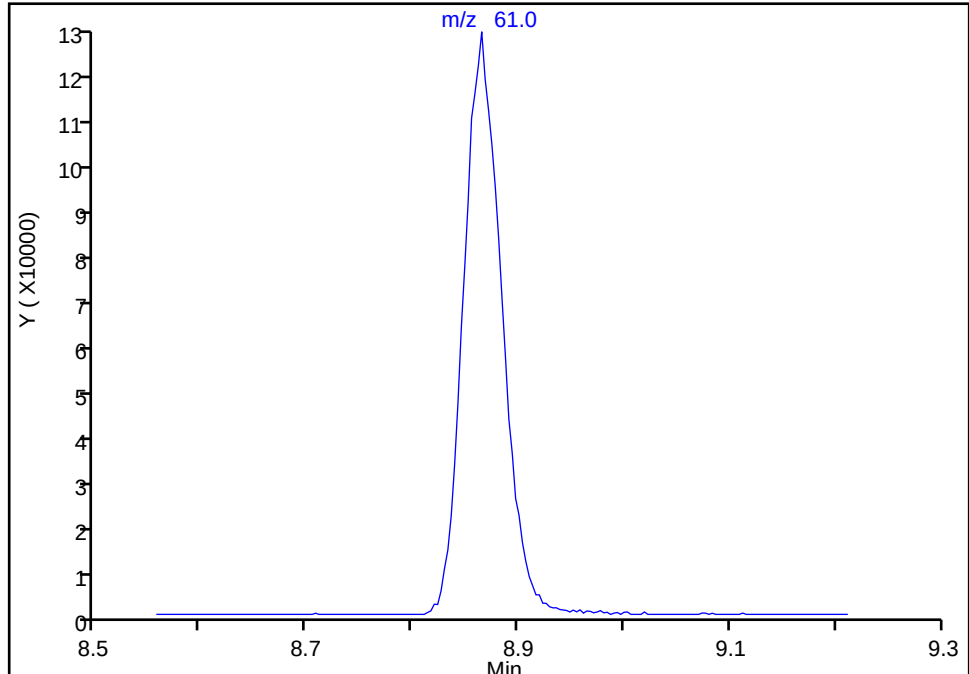
Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X06.D
Injection Date: 30-Sep-2024 20:41:30 Instrument ID: 9137
Lims ID: IC sm v100
Client ID:
Operator ID: MCD07824 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

76 n-Propyl acetate, CAS: 109-60-4

Signal: 1

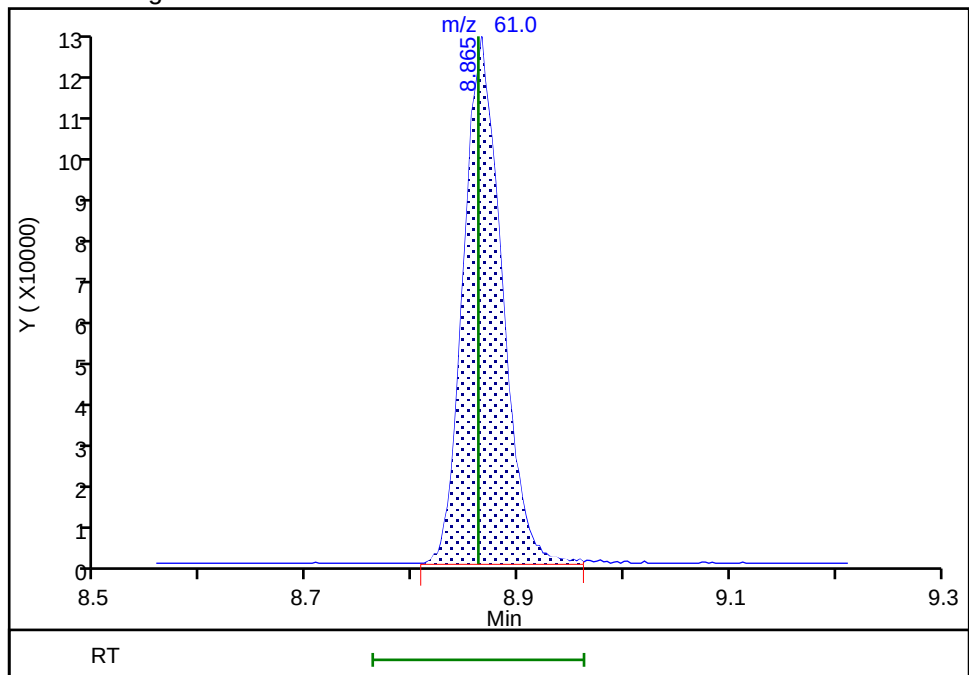
Not Detected
Expected RT: 8.86

Processing Integration Results



RT: 8.87
Area: 322796
Amount: 96.814665
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 09:05:27 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

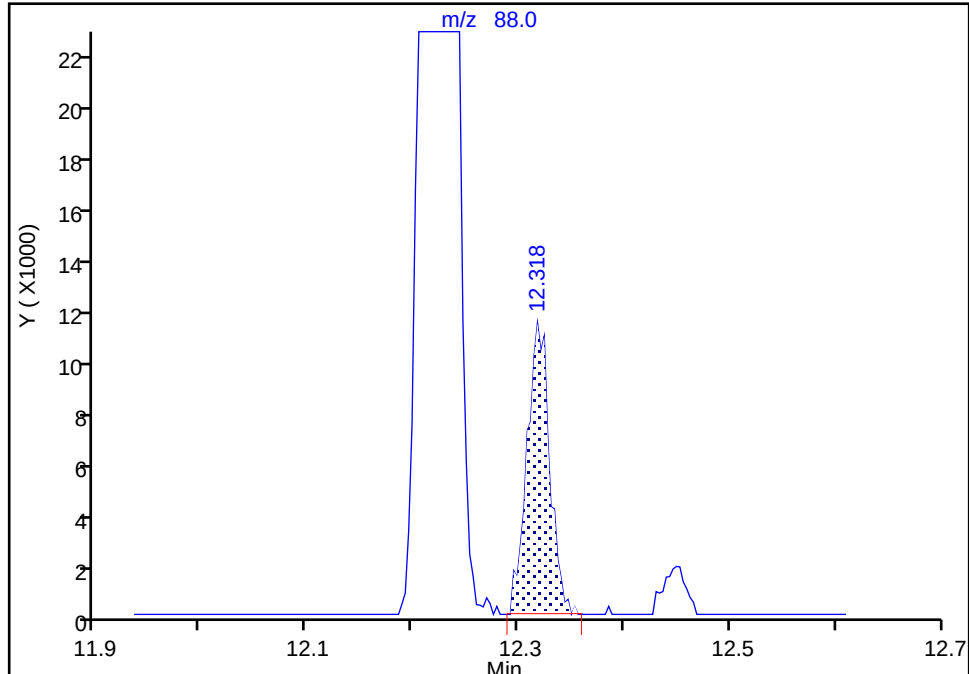
Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.bWS30X06.D
Injection Date: 30-Sep-2024 20:41:30 Instrument ID: 9137
Lims ID: IC sm v100
Client ID:
Operator ID: MCD07824 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

112 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

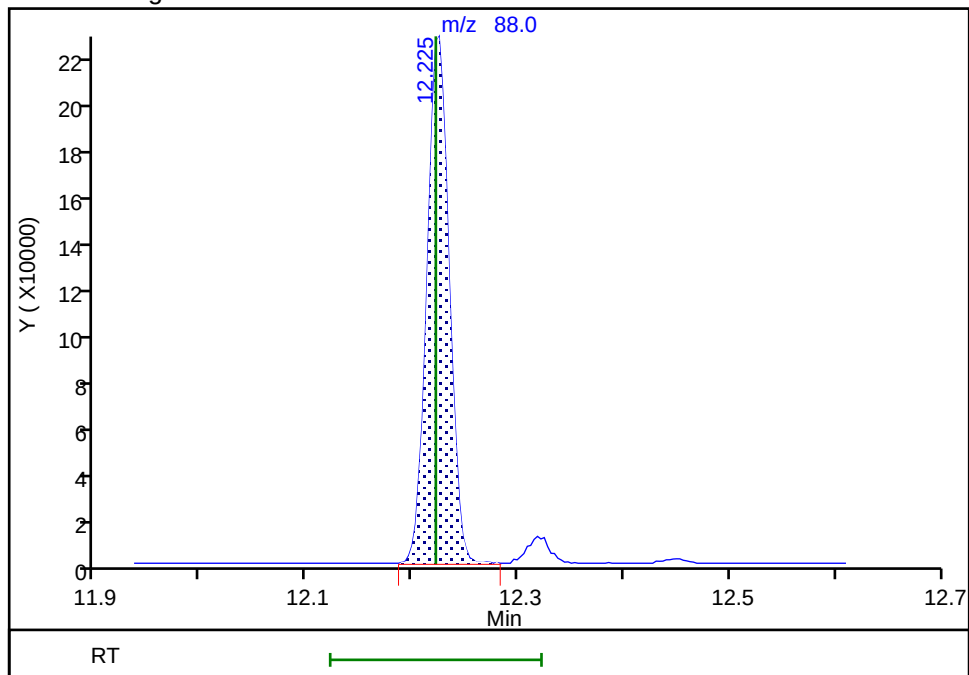
RT: 12.32
Area: 16896
Amount: 14.868713
Amount Units: ug/l

Processing Integration Results



RT: 12.22
Area: 324595
Amount: 100.3392
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:22:17 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X07.D
 Lims ID: IC sm v300
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 30-Sep-2024 21:03:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0126367-008
 Misc. Info.: IC SM V300
 Operator ID: MCD07824 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub38
 Method: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Oct-2024 09:08:46 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1618

First Level Reviewer: DVW2

Date: 01-Oct-2024 08:22:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Chlorotrifluoroethene	116	1.966	1.969	-0.003	94	2302939	300.0	279.4	
5 Chlorodifluoromethane	51	2.017	2.021	-0.004	98	3458282	300.0	250.7	
10 2-Chloro-1,1,1-Trifluoroethane	118	2.431	2.428	0.003	96	2826770	300.0	271.4	
16 Ethyl ether	59	3.356	3.349	0.007	90	1258010	300.0	285.0	
29 Acetonitrile	41	4.126	4.138	-0.012	100	2192072	1500.0	1319.8	
* 32 t-Butyl alcohol-d10 (IS)	65	4.424	4.411	0.013	58	363486	250.0	250.0	
39 Vinyl acetate	43	5.464	5.464	0.000	97	3329814	300.0	281.8	
46 Ethyl acetate	43	6.330	6.330	0.000	99	2257577	300.0	286.4	
63 Isopropyl acetate	43	7.575	7.572	0.003	98	4084511	300.0	286.2	
* 65 Fluorobenzene (IS)	96	7.890	7.886	0.004	99	1099347	50.0	50.0	
76 n-Propyl acetate	61	8.865	8.862	0.003	98	963930	300.0	295.3	a
124 2,3,4-Trichlorobutene	109		9.417				ND	ND	
93 3,4-Dichloro-1-butene	75	10.614	10.614	0.000	94	1967963	300.0	305.1	
97 n-Butyl acetate	43	10.742	10.739	0.003	99	3525005	300.0	290.3	
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.326	-0.003	84	822381	50.0	50.0	
112 cis-1,4-Dichloro-2-butene	88	12.225	12.222	0.003	29	1026171	300.0	323.2	a
126 Pentachloroethane	167	12.912	12.915	-0.003	95	1019173	300.0	316.3	
* 133 1,4-Dichlorobenzene-d4	152	13.197	13.197	0.000	95	469148	50.0	50.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

MSV_CCV_Penta_00054	Amount Added: 15.00	Units: uL
MSV_CCV_EE_00007	Amount Added: 15.00	Units: uL
MSV_CCV_V5ACE_00040	Amount Added: 15.00	Units: uL
MSV_Cent_ISO_00005	Amount Added: 5.00	Units: uL
MSV_V_SMFreon_00050	Amount Added: 7.50	Units: uL
MSV_CCV_LKB_00011	Amount Added: 15.00	Units: uL

Report Date: 01-Oct-2024 09:08:46

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X07.D

Injection Date: 30-Sep-2024 21:03:30

Instrument ID: 9137

Operator ID: MCD07824

Lims ID: IC sm v300

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

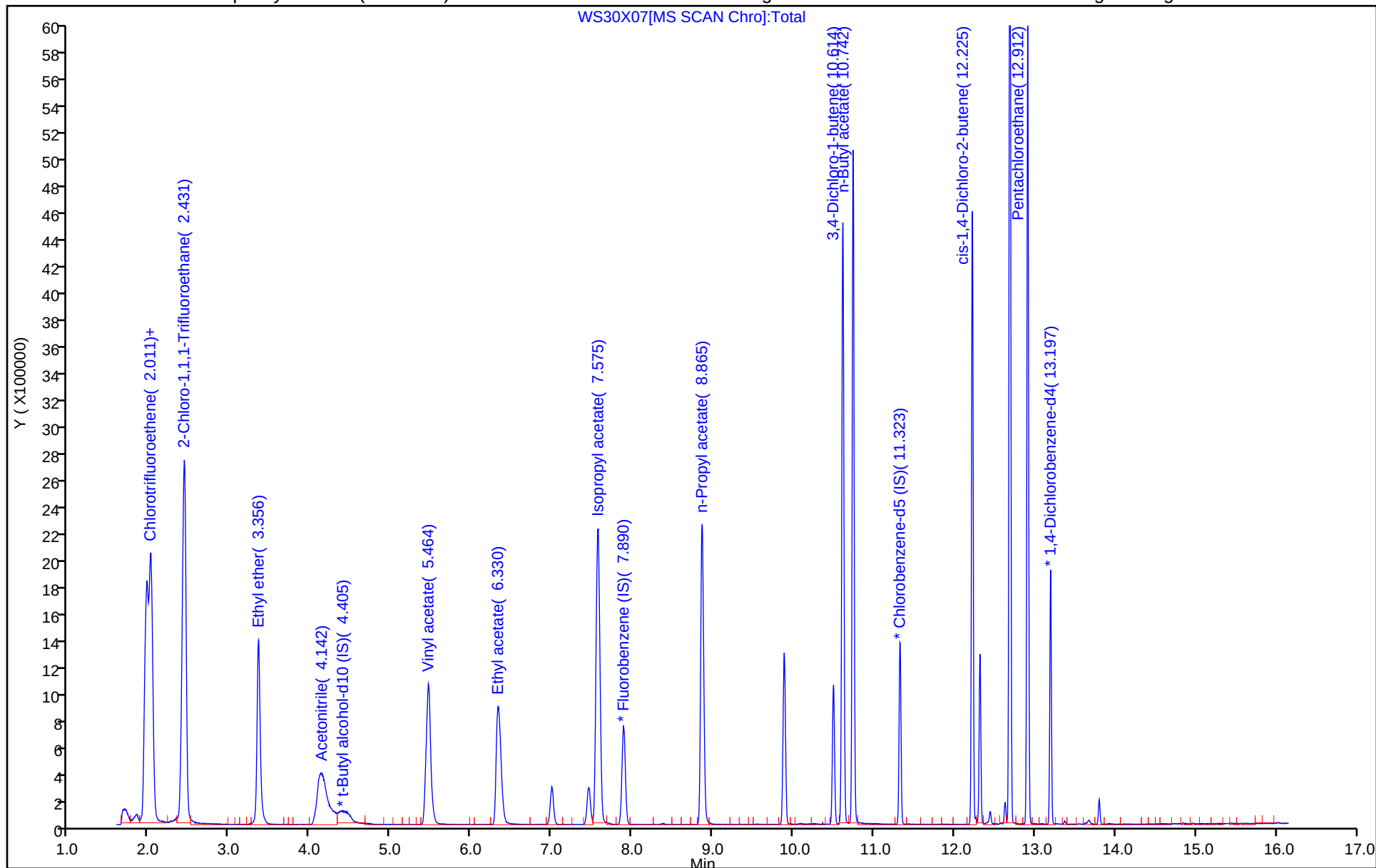
ALS Bottle#: 7

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC

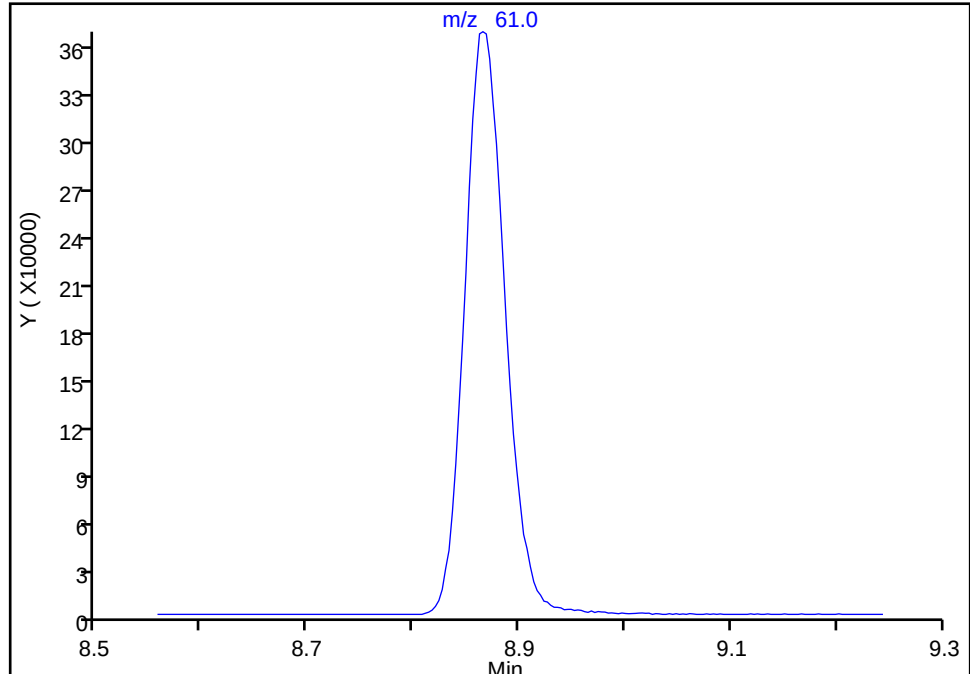
Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X07.D
Injection Date: 30-Sep-2024 21:03:30 Instrument ID: 9137
Lims ID: IC sm v300
Client ID:
Operator ID: MCD07824 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

76 n-Propyl acetate, CAS: 109-60-4

Signal: 1

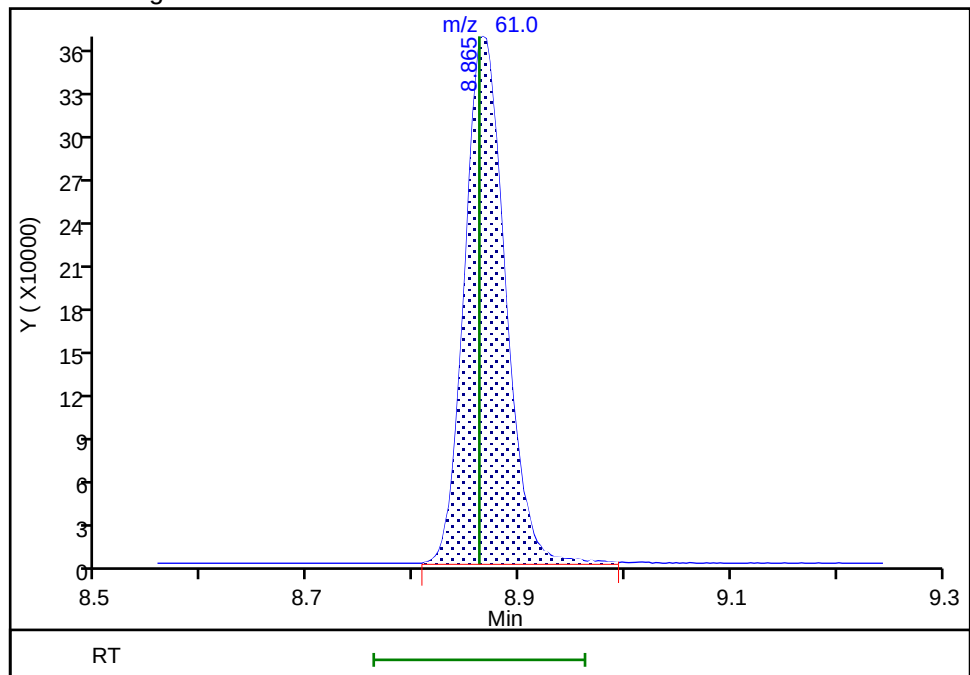
Not Detected
Expected RT: 8.86

Processing Integration Results



RT: 8.87
Area: 963930
Amount: 295.2722
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 09:05:33 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

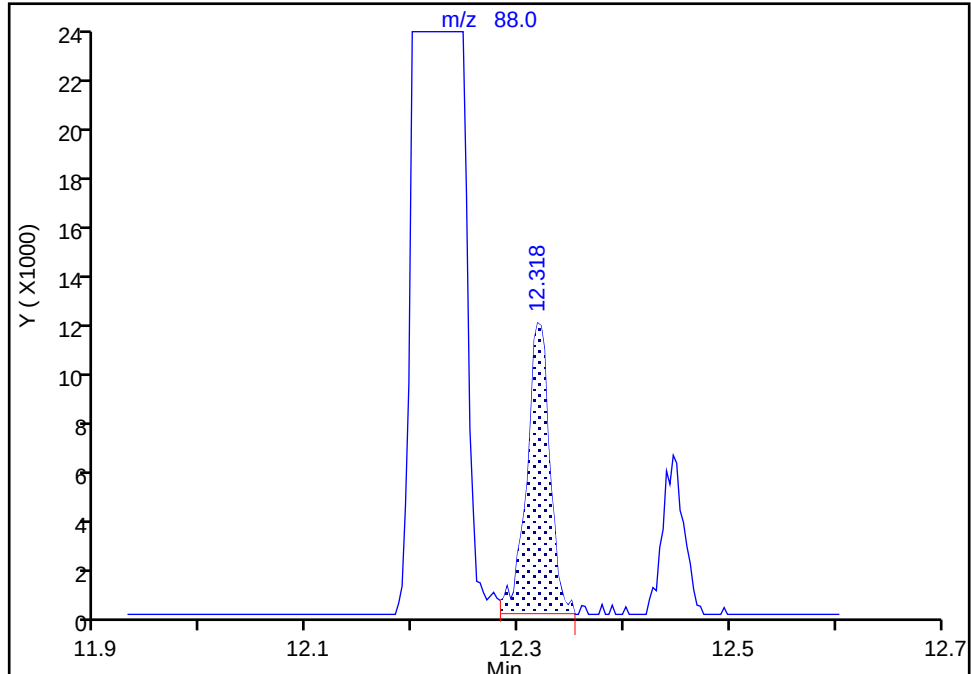
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Injection Date: 30-Sep-2024 21:03:30 Instrument ID: 9137
Lims ID: IC sm v300
Client ID:
Operator ID: MCD07824 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

112 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

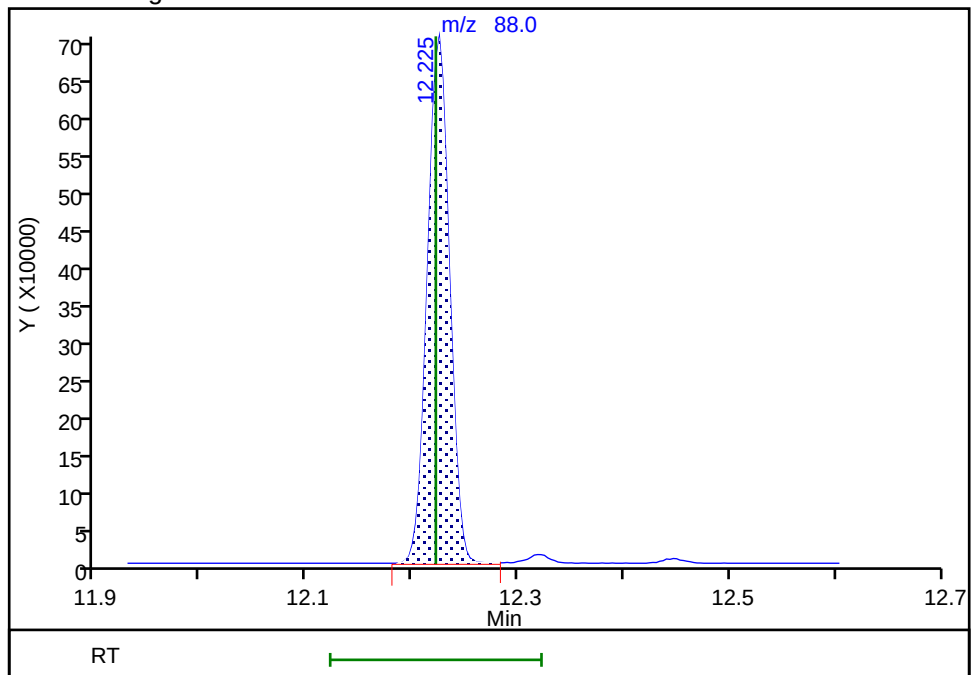
RT: 12.32
Area: 17563
Amount: 8.411861
Amount Units: ug/l

Processing Integration Results



RT: 12.22
Area: 1026171
Amount: 323.1965
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:22:41 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Calibration

/ Chlorotrifluoroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

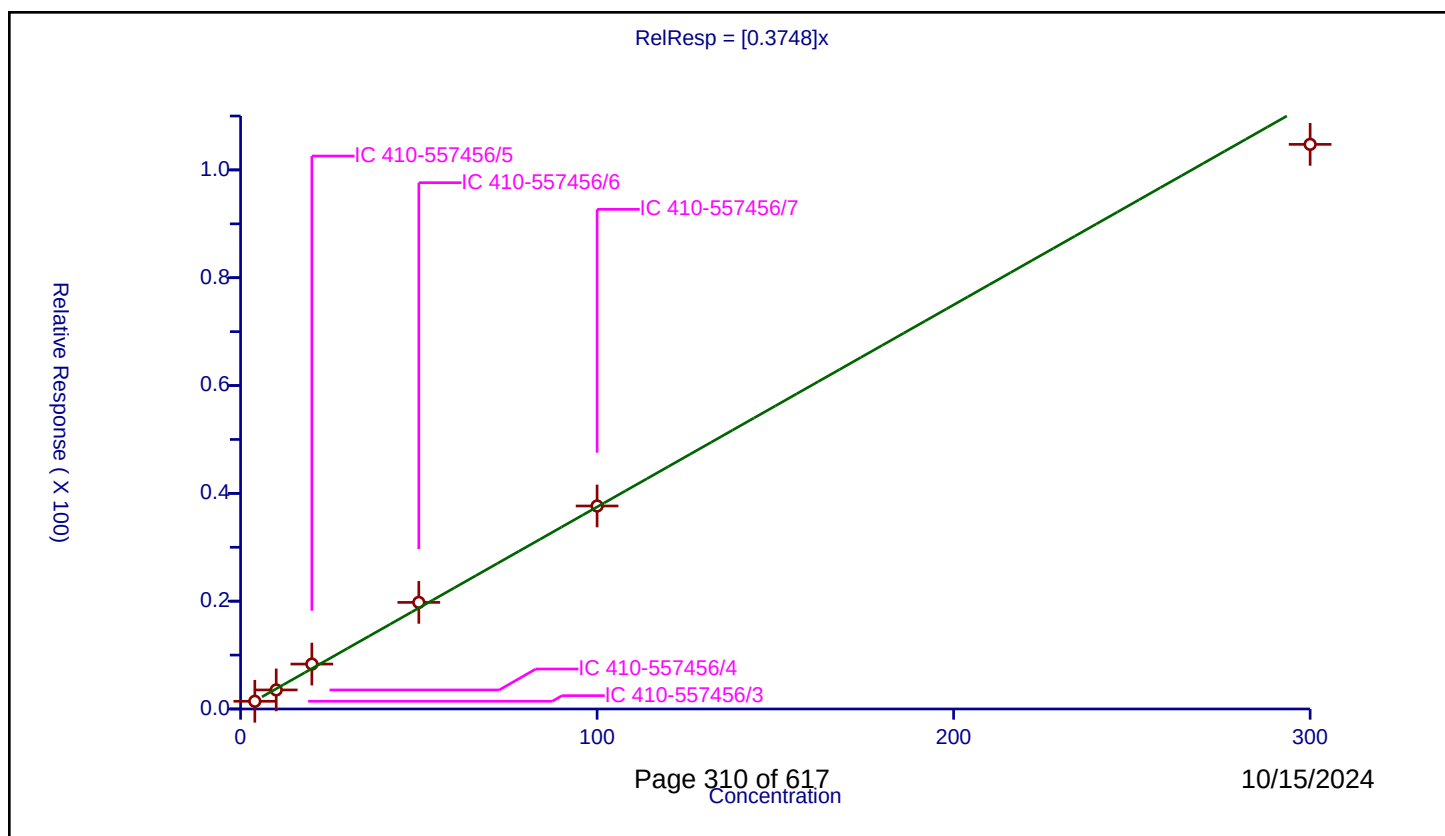
Curve Coefficients

Intercept: 0
Slope: 0.3748

Error Coefficients

Relative Standard Deviation: 7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/3	4.0	1.430482	50.0	1088095.0	0.35762	Y
2	IC 410-557456/4	10.0	3.535293	50.0	1137487.0	0.353529	Y
3	IC 410-557456/5	20.0	8.332411	50.0	1074959.0	0.416621	Y
4	IC 410-557456/6	50.0	19.773725	50.0	1126462.0	0.395475	Y
5	IC 410-557456/7	100.0	37.659413	50.0	1122791.0	0.376594	Y
6	IC 410-557456/8	300.0	104.741224	50.0	1099347.0	0.349137	Y



Calibration

/ Chlorodifluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

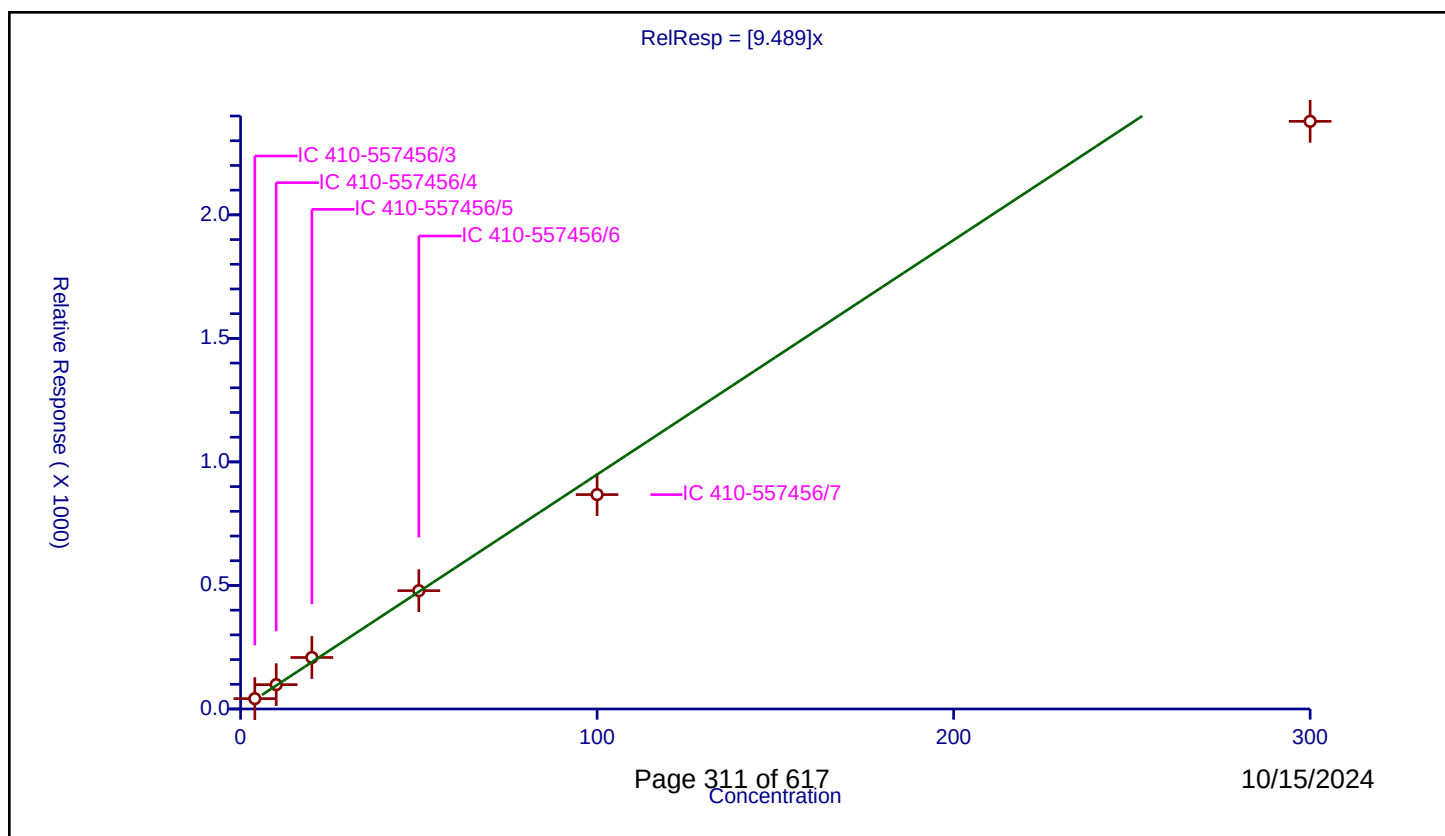
Curve Coefficients

Intercept: 0
 Slope: 9.489

Error Coefficients

Relative Standard Deviation: 10.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/3	4.0	41.951268	250.0	374208.0	10.487817	Y
2	IC 410-557456/4	10.0	98.43367	250.0	350820.0	9.843367	Y
3	IC 410-557456/5	20.0	208.43643	250.0	339486.0	10.421822	Y
4	IC 410-557456/6	50.0	478.830848	250.0	353675.0	9.576617	Y
5	IC 410-557456/7	100.0	867.745718	250.0	366680.0	8.677457	Y
6	IC 410-557456/8	300.0	2378.552406	250.0	363486.0	7.928508	Y



Calibration

/ 2-Chloro-1,1,1-Trifluoroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

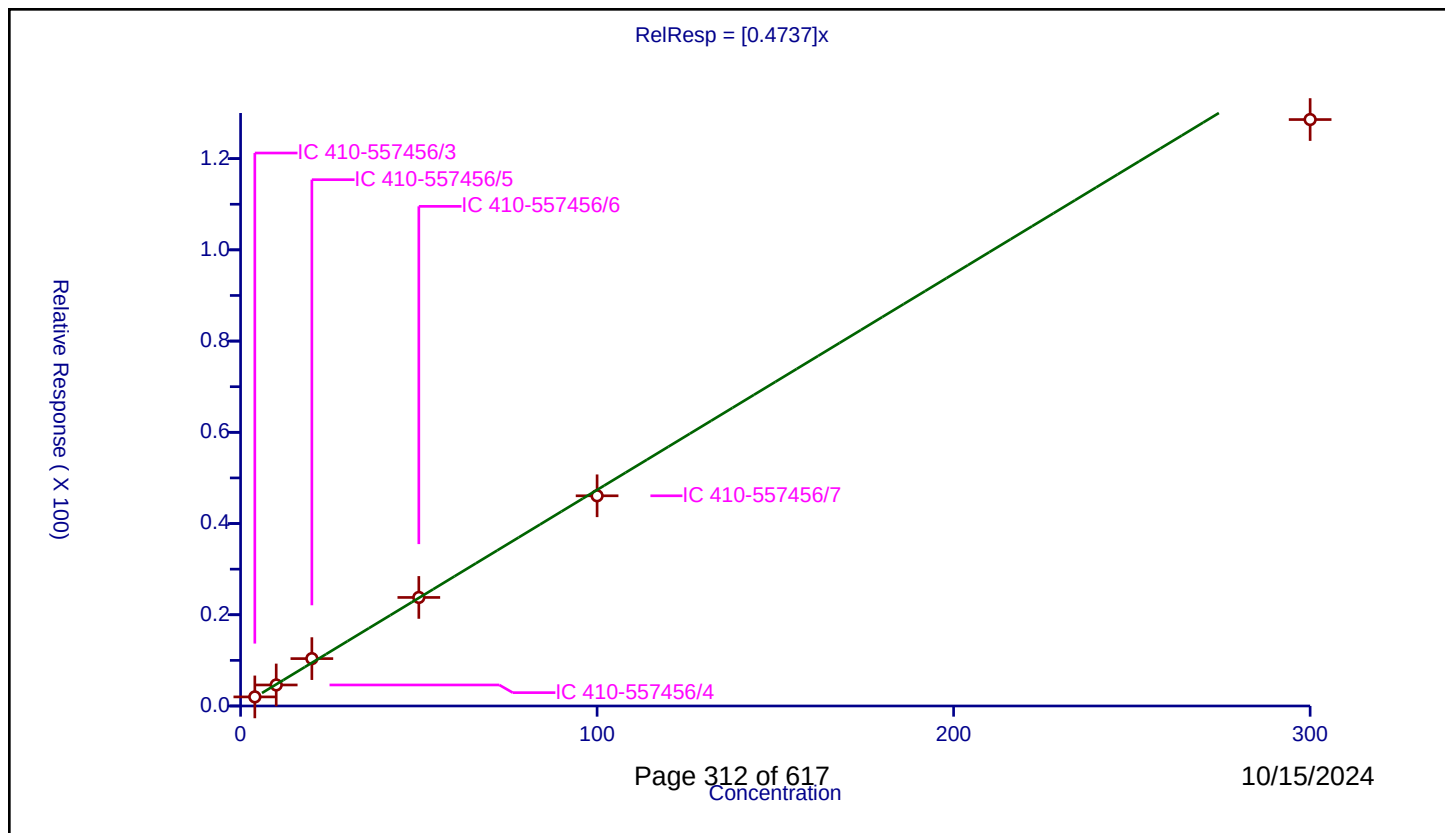
Curve Coefficients

Intercept: 0
 Slope: 0.4737

Error Coefficients

Relative Standard Deviation: 6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/3	4.0	1.987832	50.0	1088095.0	0.496958	Y
2	IC 410-557456/4	10.0	4.61069	50.0	1137487.0	0.461069	Y
3	IC 410-557456/5	20.0	10.383466	50.0	1074959.0	0.519173	Y
4	IC 410-557456/6	50.0	23.795388	50.0	1126462.0	0.475908	Y
5	IC 410-557456/7	100.0	46.08066	50.0	1122791.0	0.460807	Y
6	IC 410-557456/8	300.0	128.565867	50.0	1099347.0	0.428553	Y



Calibration

/ Ethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

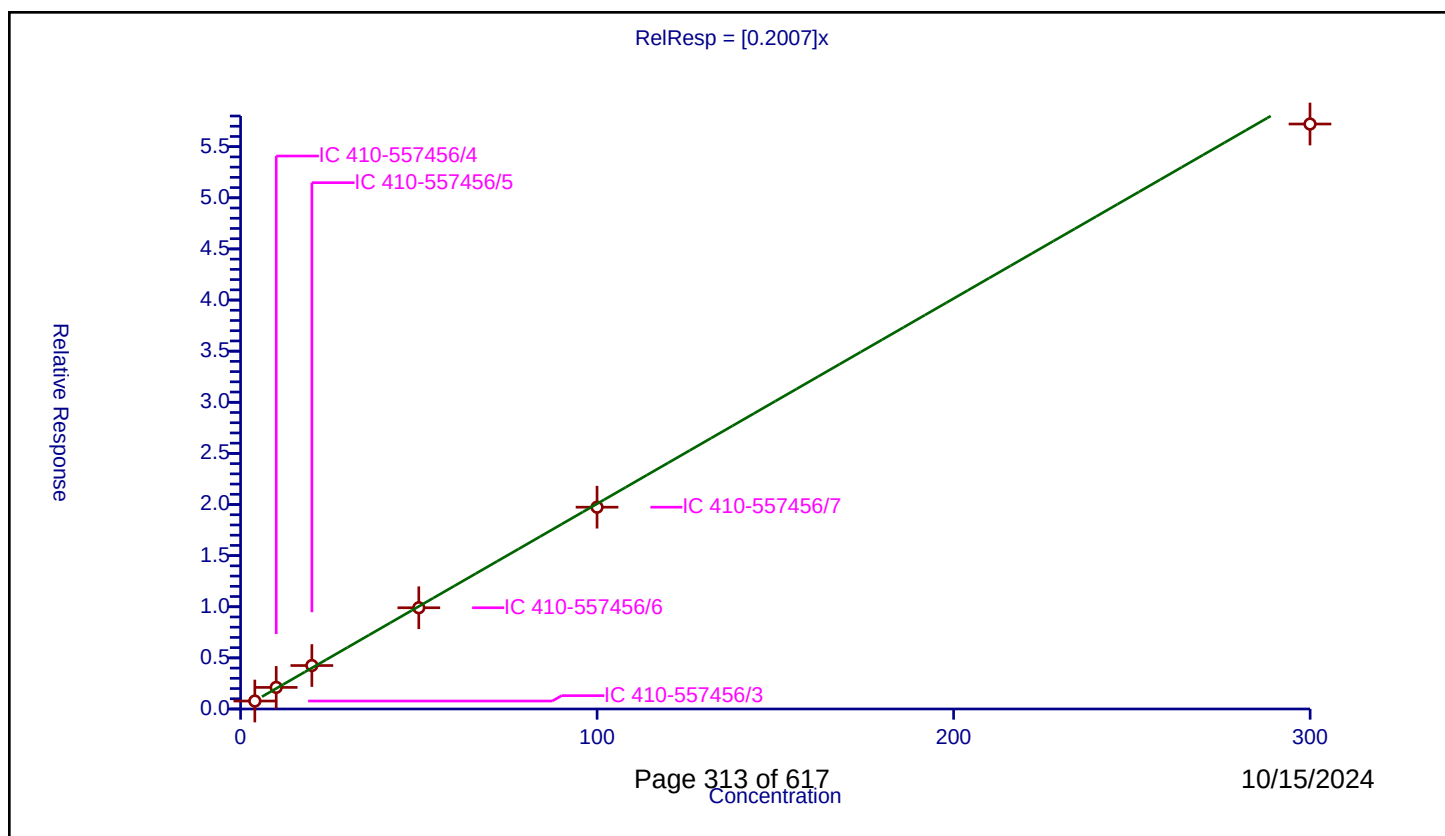
Curve Coefficients

Intercept: 0
Slope: 0.2007

Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/3	3.999587	0.777322	50.0	1088095.0	0.194351	Y
2	IC 410-557456/4	9.998968	2.112156	50.0	1137487.0	0.211237	Y
3	IC 410-557456/5	19.997936	4.250767	50.0	1074959.0	0.21256	Y
4	IC 410-557456/6	49.99484	9.902154	50.0	1126462.0	0.198064	Y
5	IC 410-557456/7	99.98968	19.738936	50.0	1122791.0	0.19741	Y
6	IC 410-557456/8	299.96904	57.216238	50.0	1099347.0	0.19074	Y



Calibration

/ Acetonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

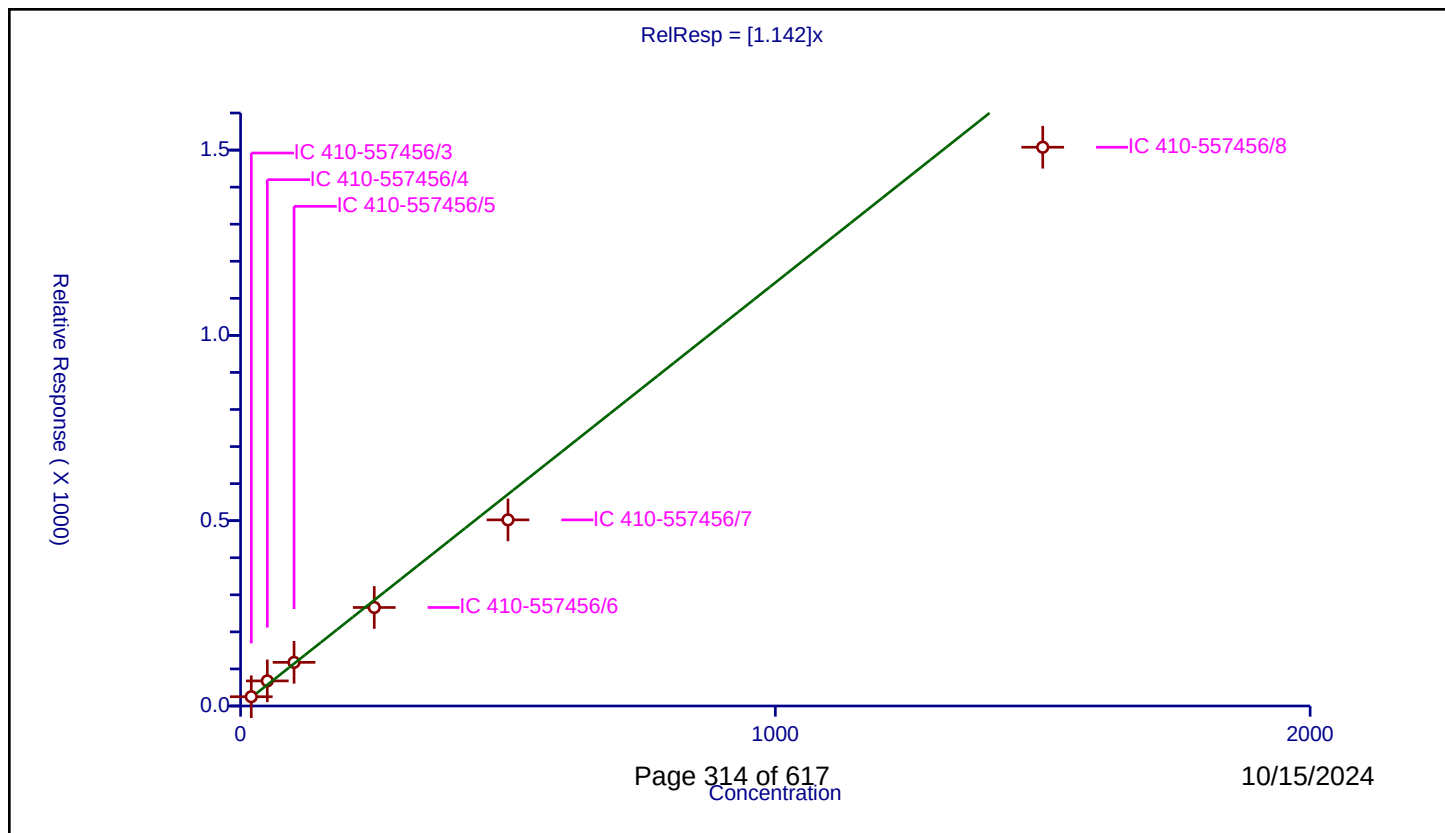
Curve Coefficients

Intercept: 0
Slope: 1.142

Error Coefficients

Relative Standard Deviation: 12.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/3	20.0	25.008151	250.0	374208.0	1.250408	Y
2	IC 410-557456/4	50.0	67.679294	250.0	350820.0	1.353586	Y
3	IC 410-557456/5	100.0	117.753015	250.0	339486.0	1.17753	Y
4	IC 410-557456/6	250.0	265.82597	250.0	353675.0	1.063304	Y
5	IC 410-557456/7	500.0	502.170148	250.0	366680.0	1.00434	Y
6	IC 410-557456/8	1500.0	1507.672923	250.0	363486.0	1.005115	Y



Calibration

/ Vinyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

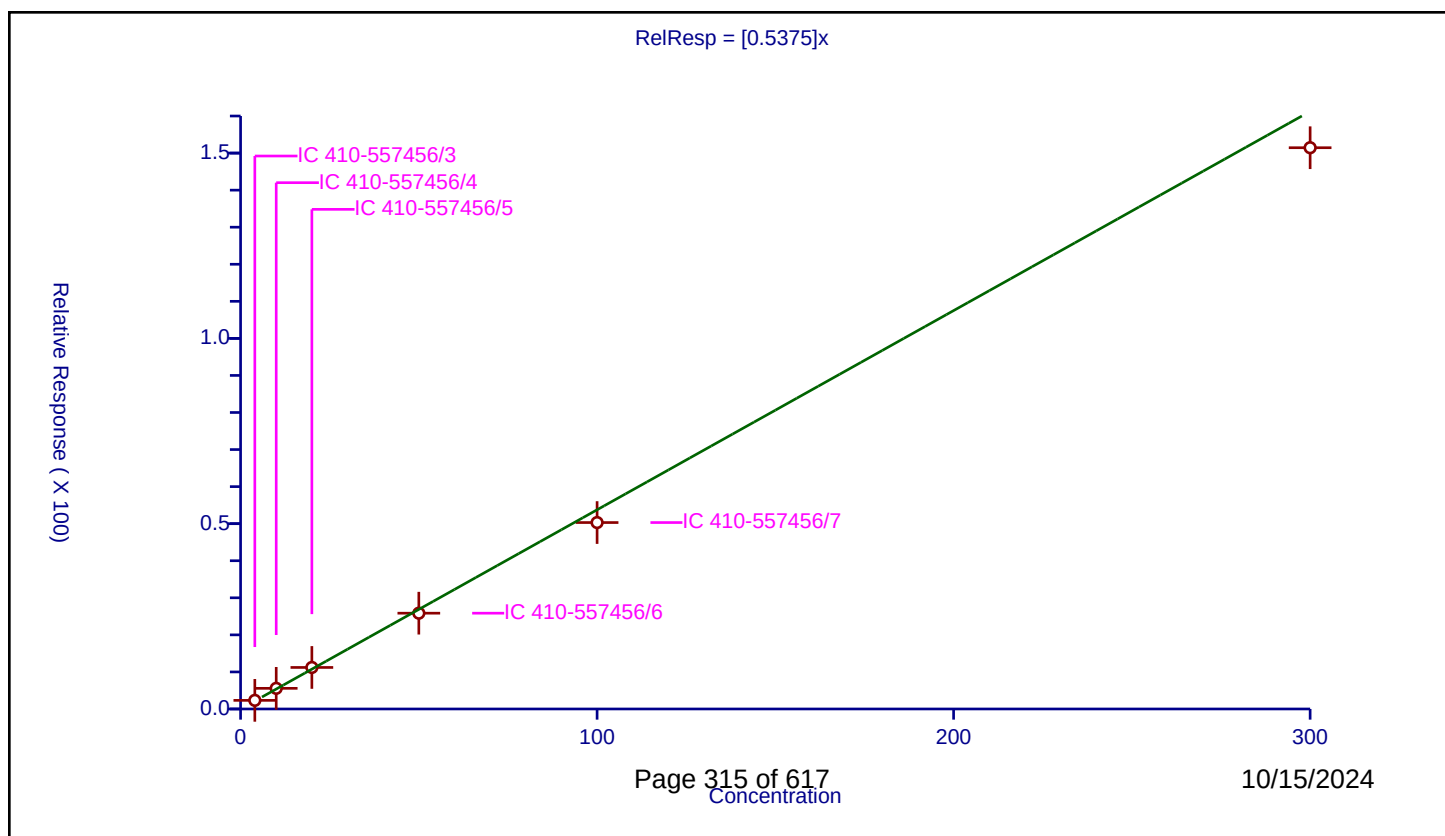
Curve Coefficients

Intercept: 0
Slope: 0.5375

Error Coefficients

Relative Standard Deviation: 6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/3	4.0	2.328841	50.0	1088095.0	0.58221	Y
2	IC 410-557456/4	10.0	5.575404	50.0	1137487.0	0.55754	Y
3	IC 410-557456/5	20.0	11.205218	50.0	1074959.0	0.560261	Y
4	IC 410-557456/6	50.0	25.851649	50.0	1126462.0	0.517033	Y
5	IC 410-557456/7	100.0	50.306246	50.0	1122791.0	0.503062	Y
6	IC 410-557456/8	300.0	151.445085	50.0	1099347.0	0.504817	Y



Calibration

/ Ethyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

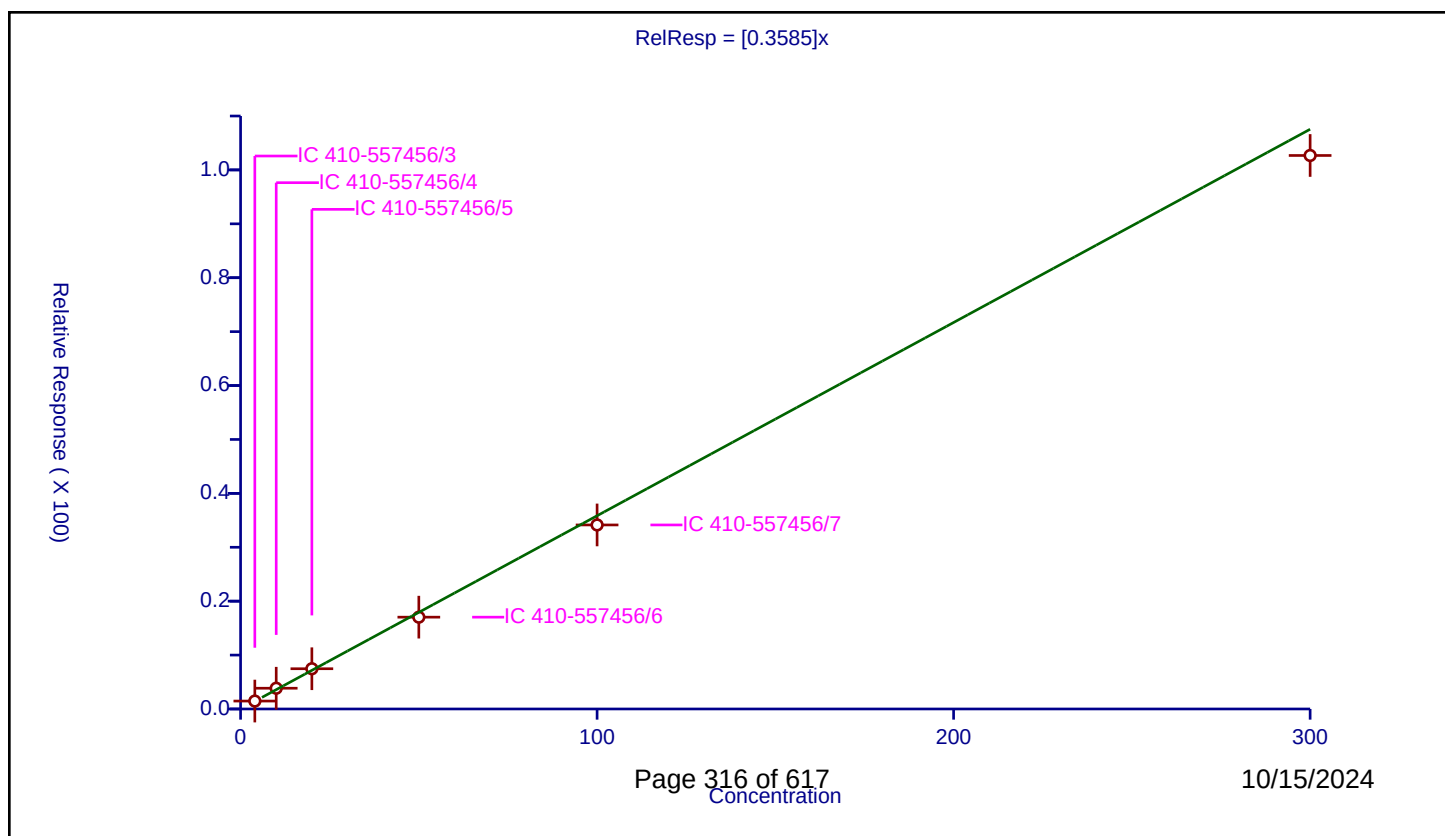
Curve Coefficients

Intercept: 0
Slope: 0.3585

Error Coefficients

Relative Standard Deviation: 5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/3	4.0	1.472482	50.0	1088095.0	0.36812	Y
2	IC 410-557456/4	10.0	3.850154	50.0	1137487.0	0.385015	Y
3	IC 410-557456/5	20.0	7.468703	50.0	1074959.0	0.373435	Y
4	IC 410-557456/6	50.0	17.032132	50.0	1126462.0	0.340643	Y
5	IC 410-557456/7	100.0	34.142819	50.0	1122791.0	0.341428	Y
6	IC 410-557456/8	300.0	102.67809	50.0	1099347.0	0.34226	Y



Calibration

/ Isopropyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

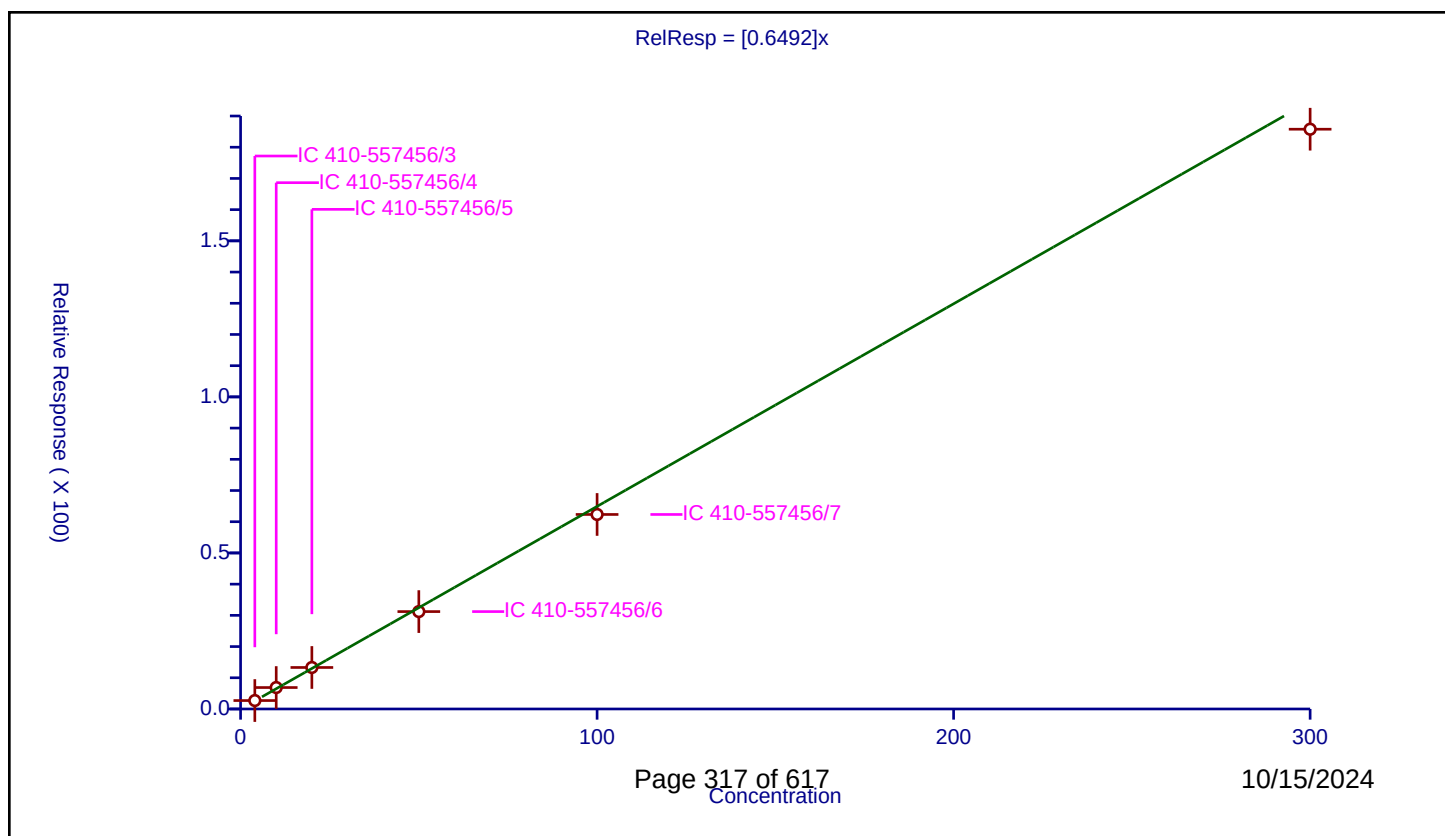
Curve Coefficients

Intercept: 0
 Slope: 0.6492

Error Coefficients

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/3	4.0	2.701602	50.0	1088095.0	0.675401	Y
2	IC 410-557456/4	10.0	6.877573	50.0	1137487.0	0.687757	Y
3	IC 410-557456/5	20.0	13.3026	50.0	1074959.0	0.66513	Y
4	IC 410-557456/6	50.0	31.209353	50.0	1126462.0	0.624187	Y
5	IC 410-557456/7	100.0	62.328385	50.0	1122791.0	0.623284	Y
6	IC 410-557456/8	300.0	185.769871	50.0	1099347.0	0.619233	Y



Calibration

/ n-Propyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

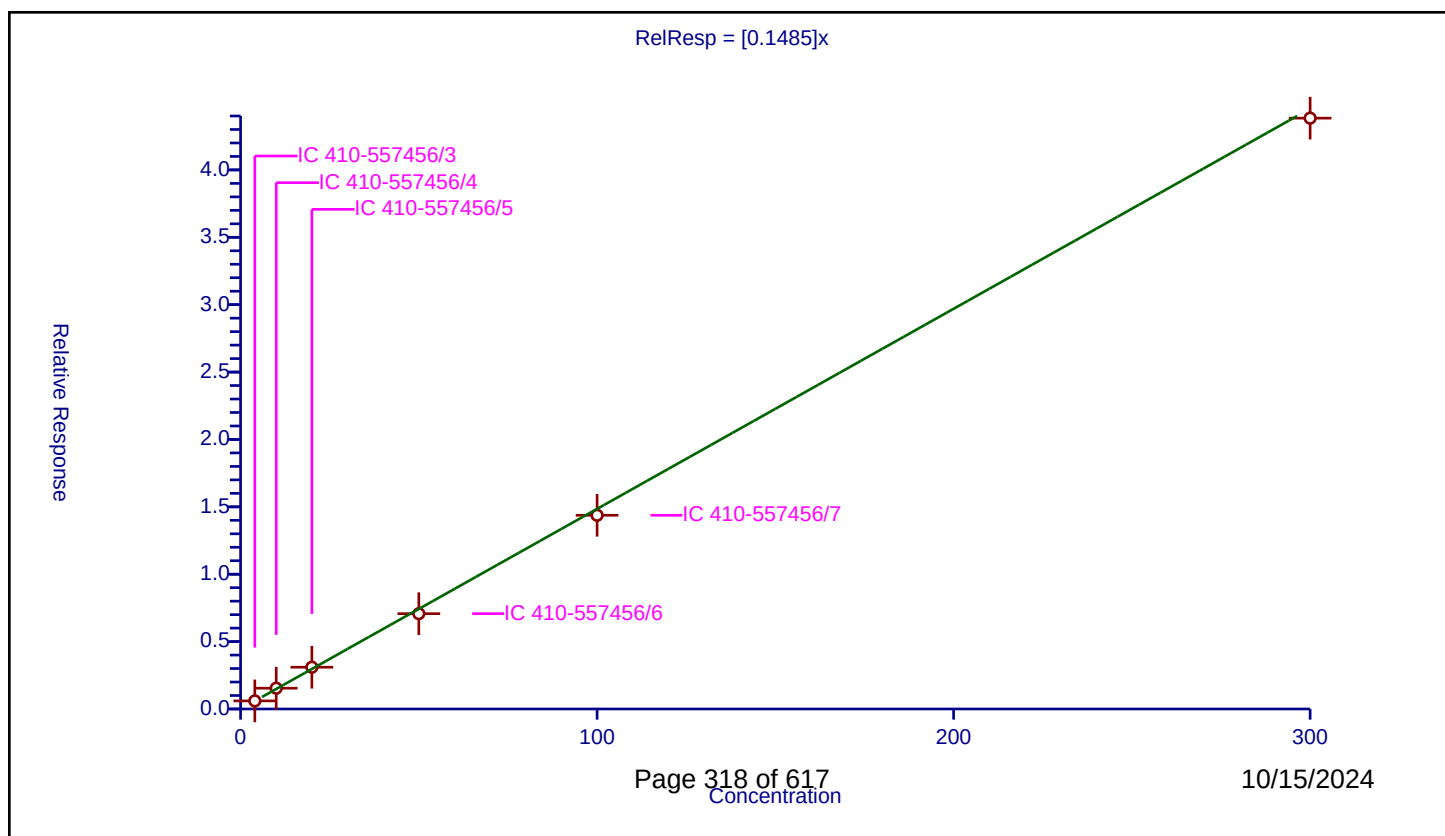
Curve Coefficients

Intercept: 0
Slope: 0.1485

Error Coefficients

Relative Standard Deviation: 3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/3	4.0	0.601005	50.0	1088095.0	0.150251	Y
2	IC 410-557456/4	10.0	1.542523	50.0	1137487.0	0.154252	Y
3	IC 410-557456/5	20.0	3.100165	50.0	1074959.0	0.155008	Y
4	IC 410-557456/6	50.0	7.073208	50.0	1126462.0	0.141464	Y
5	IC 410-557456/7	100.0	14.374714	50.0	1122791.0	0.143747	Y
6	IC 410-557456/8	300.0	43.841026	50.0	1099347.0	0.146137	Y



Calibration

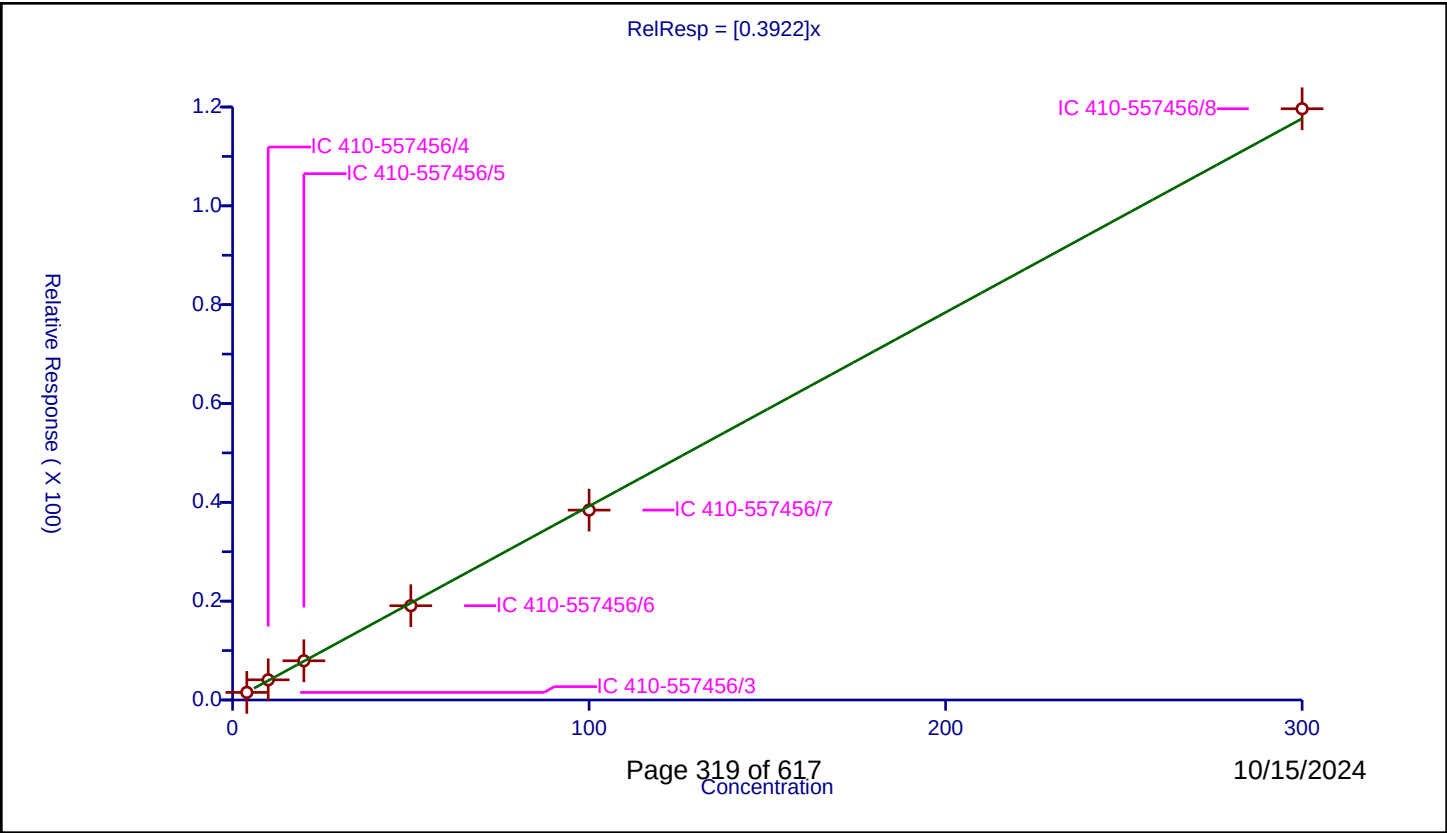
/ 3,4-Dichloro-1-butene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3922
Error Coefficients	

Relative Standard Deviation: 2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/3	3.99997	1.535249	50.0	813516.0	0.383815	Y
2	IC 410-557456/4	9.99924	4.080329	50.0	850679.0	0.408036	Y
3	IC 410-557456/5	19.999848	7.935503	50.0	797492.0	0.396778	Y
4	IC 410-557456/6	49.99962	19.078966	50.0	843020.0	0.381582	Y
5	IC 410-557456/7	99.99924	38.427887	50.0	837898.0	0.384282	Y
6	IC 410-557456/8	299.99772	119.65032	50.0	822381.0	0.398837	Y



Calibration

/ n-Butyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

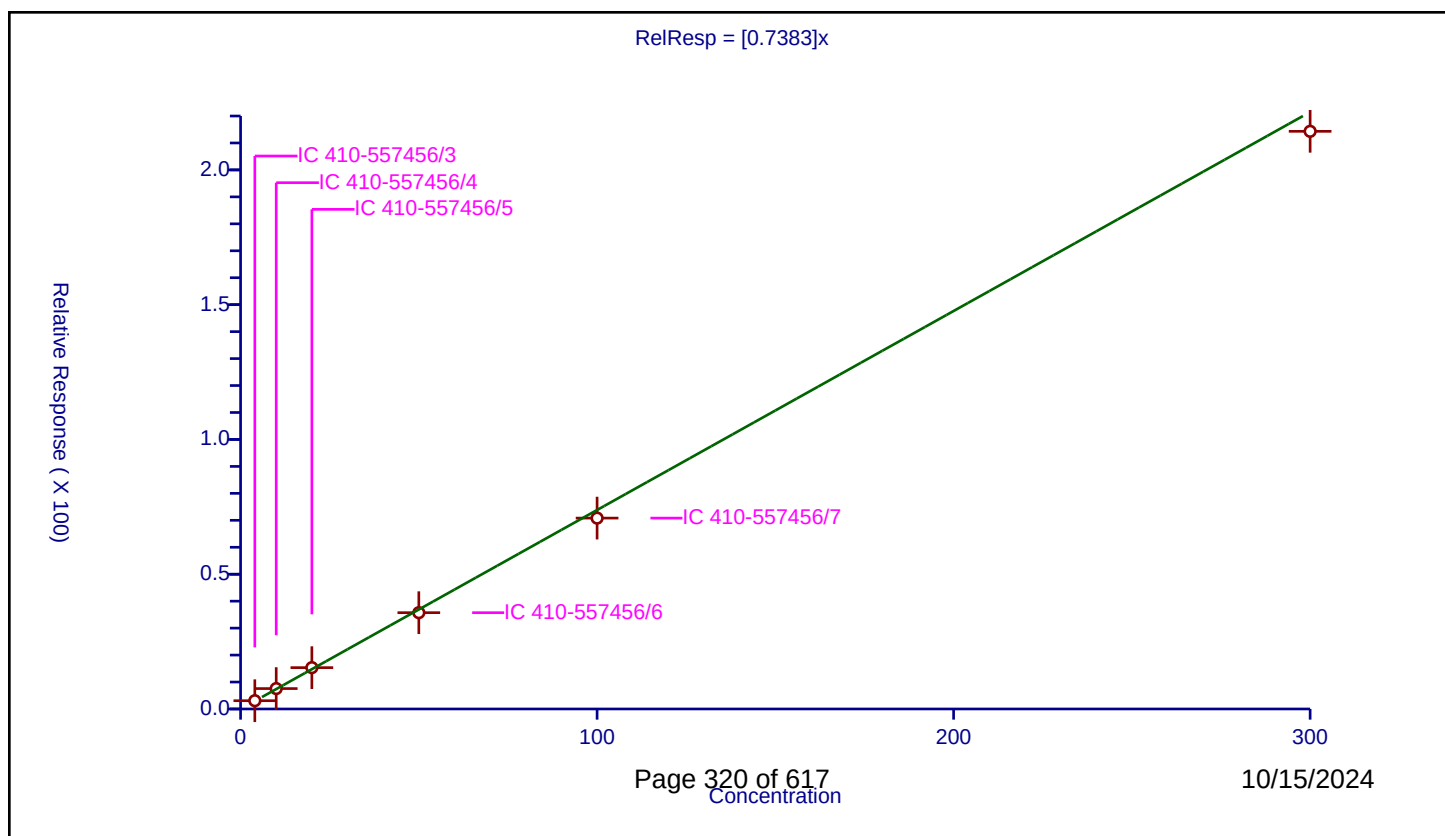
Curve Coefficients

Intercept: 0
Slope: 0.7383

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/3	4.0	3.07308	50.0	813516.0	0.76827	Y
2	IC 410-557456/4	10.0	7.571657	50.0	850679.0	0.757166	Y
3	IC 410-557456/5	20.0	15.341721	50.0	797492.0	0.767086	Y
4	IC 410-557456/6	50.0	35.732248	50.0	843020.0	0.714645	Y
5	IC 410-557456/7	100.0	70.820195	50.0	837898.0	0.708202	Y
6	IC 410-557456/8	300.0	214.317026	50.0	822381.0	0.71439	Y



Calibration

/ cis-1,4-Dichloro-2-butene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

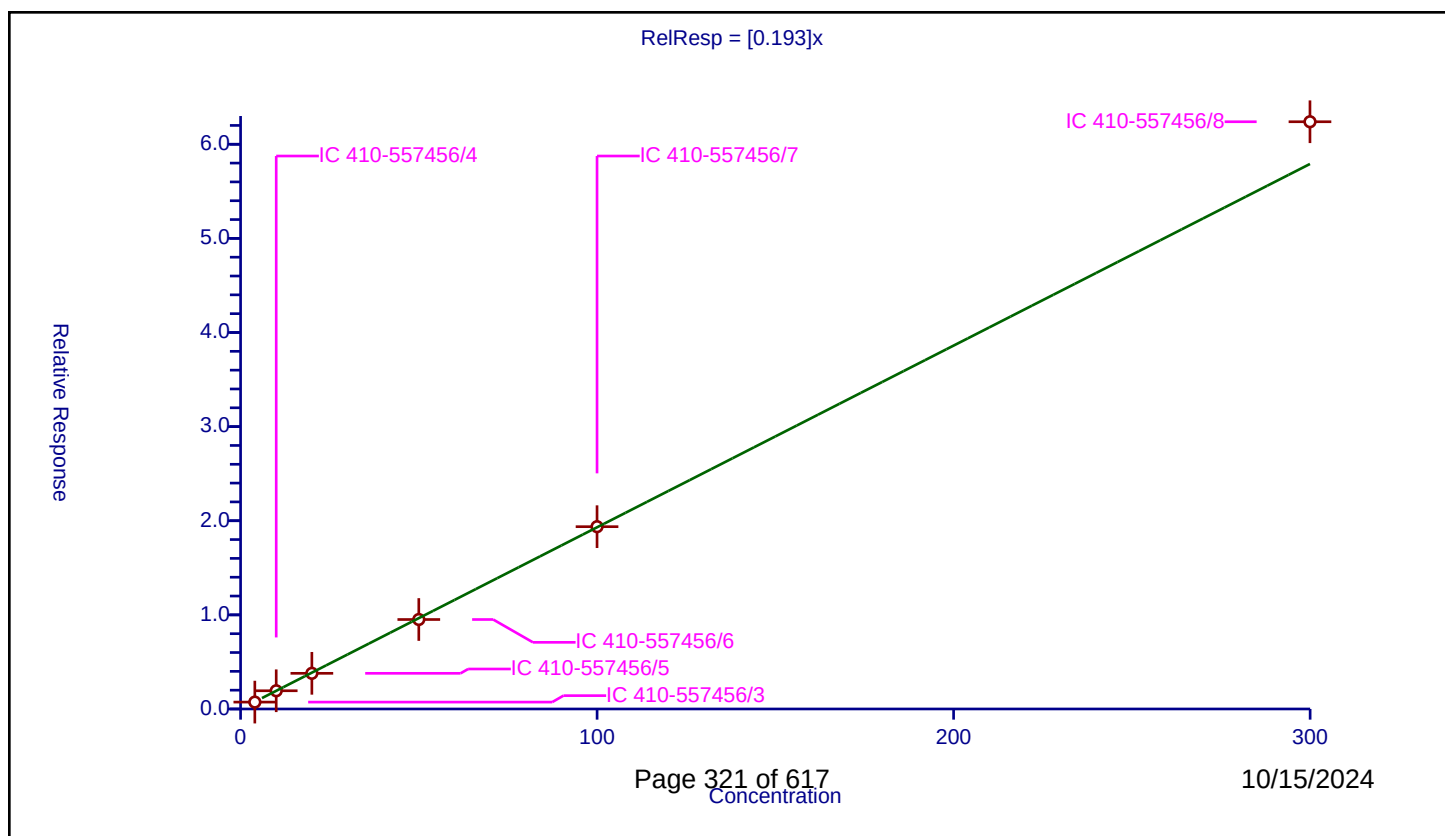
Curve Coefficients

Intercept: 0
Slope: 0.193

Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/3	3.999457	0.733544	50.0	813516.0	0.183411	Y
2	IC 410-557456/4	9.998644	1.935042	50.0	850679.0	0.19353	Y
3	IC 410-557456/5	19.997287	3.788063	50.0	797492.0	0.189429	Y
4	IC 410-557456/6	49.993218	9.506655	50.0	843020.0	0.190159	Y
5	IC 410-557456/7	99.986436	19.369601	50.0	837898.0	0.193722	Y
6	IC 410-557456/8	299.959308	62.390242	50.0	822381.0	0.207996	Y



Calibration

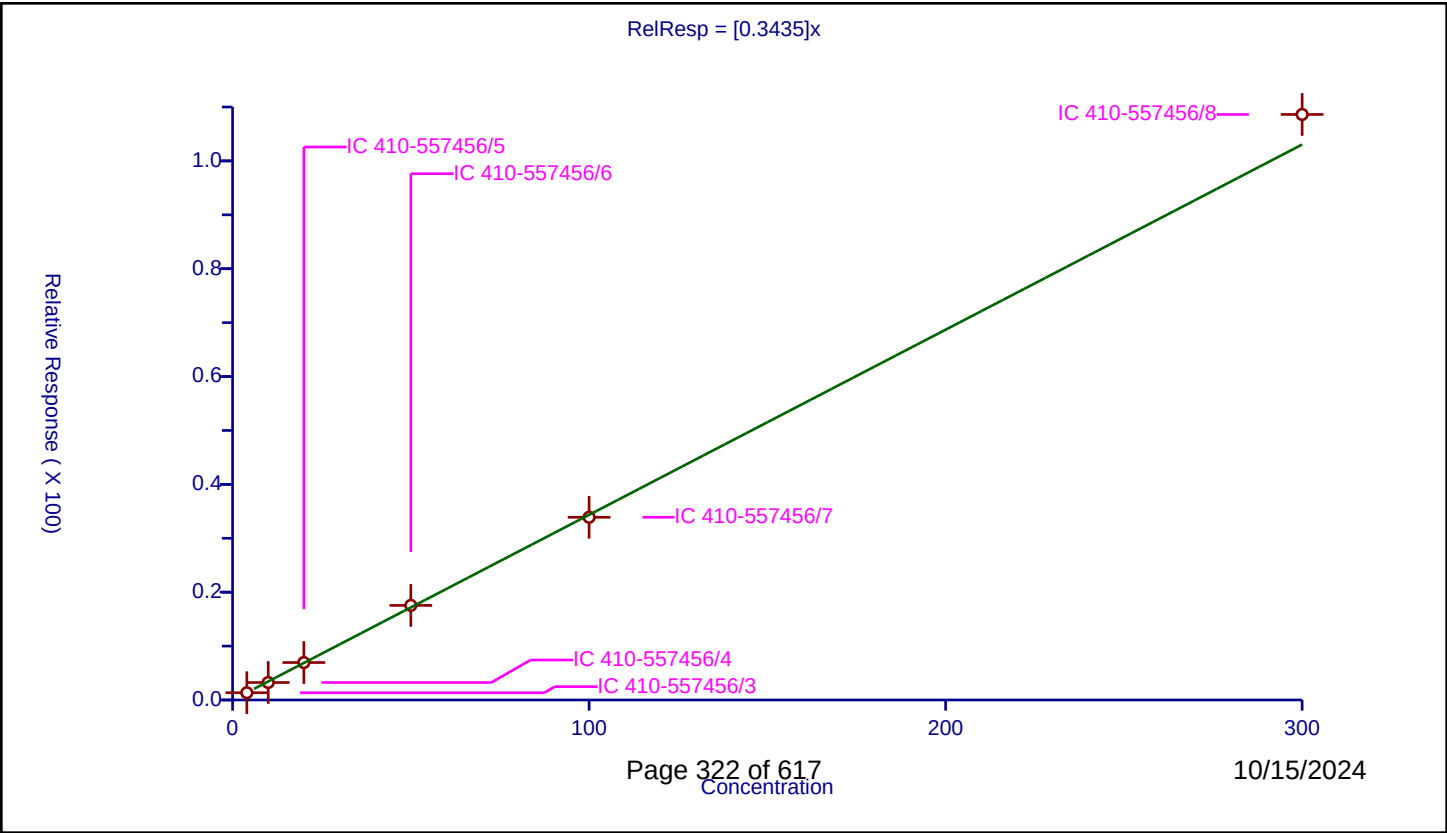
/ Pentachloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3435
Error Coefficients	

Relative Standard Deviation: 3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/3	4.0	1.348857	50.0	464356.0	0.337214	Y
2	IC 410-557456/4	10.0	3.242971	50.0	492758.0	0.324297	Y
3	IC 410-557456/5	20.0	6.945761	50.0	464348.0	0.347288	Y
4	IC 410-557456/6	50.0	17.545569	50.0	485587.0	0.350911	Y
5	IC 410-557456/7	100.0	33.894563	50.0	487531.0	0.338946	Y
6	IC 410-557456/8	300.0	108.619561	50.0	469148.0	0.362065	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1 Analy Batch No.: 557456
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 22:30 Calibration End Date: 10/01/2024 00:40 Calibration ID: 66268

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-557456/12	WS30X11.D
Level 2	IC 410-557456/13	WS30X12.D
Level 3	IC 410-557456/14	WS30X13.D
Level 4	IC 410-557456/15	WS30X14.D
Level 5	ICIS 410-557456/16	WS30X15.D
Level 6	IC 410-557456/17	WS30X16.D
Level 7	IC 410-557456/18	WS30X17.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.4345 0.5704	0.6254 0.5370	0.5917	0.5736	0.6148	Ave		0.563 9			0.1000	11.4		20.0			
Chloromethane	0.5831 0.5120	0.5994 0.4786	0.5339	0.5427	0.5475	Ave		0.542 5			0.1000	7.5		20.0			
Vinyl chloride	0.4573 0.5260	0.6167 0.4951	0.5481	0.5494	0.5675	Ave		0.537 2			0.1000	9.6		20.0			
1,3-Butadiene	0.4407 0.5239	0.6391 0.5000	0.5734	0.5528	0.5860	Ave		0.545 1				11.8		20.0			
Bromomethane	0.3798 0.3700	0.4226 0.3465	0.3815	0.3950	0.3849	Ave		0.382 9			0.1000	6.1		20.0			
Chloroethane	0.2448 0.2615	0.3010 0.2467	0.2759	0.2768	0.2794	Ave		0.269 4			0.1000	7.4		20.0			
Dichlorofluoromethane	0.7531 0.7929	0.9001 0.7400	0.8125	0.8303	0.8359	Ave		0.809 3			0.1000	6.7		20.0			
Trichlorofluoromethane	0.5204 0.6467	0.7123 0.6211	0.6656	0.6662	0.6967	Ave		0.647 0			0.1000	9.8		20.0			
n-Pentane	0.5106 0.4433	0.4213 0.4495	0.4701	0.4042	0.4997	Ave		0.457 0				8.6		20.0			
Ethanol	0.0531 0.0621	0.0666 0.0556	0.0664	0.0658	0.0649	Ave		0.062 1				8.9		20.0			
Freon 123a	0.3660 0.3776	0.4415 0.3626	0.3932	0.3925	0.4131	Ave		0.392 4				7.1		20.0			
Acrolein	1.2320 1.2861	1.2204 1.3847	1.1539	1.2514	1.3659	Ave		1.270 6				6.5		20.0			
1,1-Dichloroethene	0.2001 0.2609	0.2602 0.2590	0.2957	0.2589	0.2927	Ave		0.261 1			0.1000	12.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1 Analy Batch No.: 557456
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 22:30 Calibration End Date: 10/01/2024 00:40 Calibration ID: 66268

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Freon 113	0.2168 0.3389	0.3027 0.3269	0.3715	0.3053	0.3818	Ave		0.320 6			0.1000	17.1		20.0			
Acetone	0.6633 0.7603	0.8000 0.7545	0.7443	0.7639	0.8485	Ave		0.762 1			0.1000	7.4		20.0			
Methyl iodide	0.4308 0.5273	0.5201 0.5134	0.5891	0.5242	0.5863	Ave		0.527 3				10.1		20.0			
2-Propanol	0.9607 0.7221	0.9474 0.6478	0.7664	0.7687	0.6515	Ave		0.780 7				16.4		20.0			
Carbon disulfide	0.6993 0.9223	0.8965 0.9178	1.0230	0.8811	1.0242	Ave		0.909 2			0.1000	12.0		20.0			
Methyl acetate	0.4389 0.3017	0.3950 0.2837	0.3174	0.3002	0.3111	Ave		0.335 4			0.1000	17.3		20.0			
Allyl chloride	0.3693 0.3669	0.3791 0.3523	0.4201	0.3718	0.4013	Ave		0.380 1				6.1		20.0			
Methylene Chloride	0.2855 0.2887	0.3081 0.2831	0.3278	0.2959	0.3211	Ave		0.301 5			0.1000	5.9		20.0			
t-Butyl alcohol	1.0580 1.0041	1.1209 1.1041	1.3175	1.0623	1.0774	Ave		1.106 3				9.1		20.0			
Acrylonitrile	0.1694 0.1730	0.1900 0.1631	0.1904	0.1739	0.1797	Ave		0.177 1				5.8		20.0			
trans-1,2-Dichloroethene	0.2317 0.2449	0.2405 0.2322	0.2773	0.2447	0.2724	Ave		0.249 1			0.1000	7.4		20.0			
Methyl tert-butyl ether	0.8945 0.9025	0.9497 0.8442	1.0005	0.9177	0.9565	Ave		0.923 7			0.1000	5.5		20.0			
n-Hexane	0.2167 0.3381	0.2941 0.3131	0.3650	0.3054	0.3763	Ave		0.315 5				16.9		20.0			
1,1-Dichloroethane	0.3522 0.4191	0.4406 0.3965	0.4725	0.4232	0.4655	Ave		0.424 2			0.2000	9.8		20.0			
Isopropyl ether	0.8214 0.8147	0.8198 0.7790	0.8852	0.8030	0.8721	Ave		0.827 9				4.6		20.0			
2-Chloro-1,3-butadiene	0.3480 0.3832	0.3766 0.3569	0.4278	0.3711	0.4210	Ave		0.383 5				7.9		20.0			
Ethyl t-butyl ether	0.8212 0.8692	0.8973 0.8352	0.9429	0.8640	0.9255	Ave		0.879 3				5.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1 Analy Batch No.: 557456
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 22:30 Calibration End Date: 10/01/2024 00:40 Calibration ID: 66268

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Butanone (MEK)	0.2845 0.2246	0.2474 0.2266	0.2305	0.2166	0.2361	Ave		0.238 n			0.1000	9.5		20.0			
cis-1,2-Dichloroethene	0.2625 0.2783	0.2842 0.2626	0.3201	0.2794	0.3065	Ave		0.284 r			0.1000	7.6		20.0			
2,2-Dichloropropane	0.3677 0.4699	0.4594 0.4547	0.5243	0.4471	0.5071	Ave		0.461 5				10.9		20.0			
Propionitrile	1.1695 1.2127	1.3031 1.1604	1.3496	1.2229	1.2971	Ave		1.245 1				5.8		20.0			
Methyl acrylate	0.4418 0.4138	0.4159 0.4004	0.4167	0.4143	0.4386	Ave		0.420 2				3.5		20.0			
Methacrylonitrile	0.1759 0.1696	0.1771 0.1630	0.1848	0.1678	0.1795	Ave		0.174 n				4.3		20.0			
Bromochloromethane	0.1410 0.1451	0.1596 0.1358	0.1583	0.1447	0.1541	Ave		0.148 4				6.1		20.0			
Tetrahydrofuran	1.0499 1.0361	1.1528 0.9810	1.1537	1.0982	1.1338	Ave		1.086 5				6.1		20.0			
Chloroform	0.3506 0.4149	0.4379 0.3866	0.4617	0.4222	0.4548	Ave		0.418 4			0.2000	9.4		20.0			
1,1,1-Trichloroethane	0.3537 0.4587	0.4229 0.4448	0.4907	0.4387	0.4981	Ave		0.444 n			0.1000	10.9		20.0			
Cyclohexane	0.3959 0.5592	0.4928 0.5422	0.5970	0.4987	0.6094	Ave		0.527 q			0.1000	13.9		20.0			
Carbon tetrachloride	0.2673 0.3968	0.3515 0.3915	0.4039	0.3562	0.4274	Ave		0.370 7			0.1000	14.2		20.0			
1,1-Dichloropropene	0.3059 0.3729	0.3726 0.3512	0.4065	0.3586	0.4119	Ave		0.368 5				9.7		20.0			
Isobutyl alcohol	0.4534 0.3492	0.3744 0.3216	0.3796	0.3533	0.3503	Ave		0.368 r				11.3		20.0			
Benzene	0.9736 1.0440	1.0411 0.9767	1.1698	1.0410	1.1396	Ave		1.055 1			0.5000	7.1		20.0			
1,2-Dichloroethane	0.3432 0.3213	0.3368 0.3062	0.3557	0.3210	0.3479	Ave		0.333 2			0.1000	5.3		20.0			
t-Amyl methyl ether	0.7950 0.8633	0.8647 0.8413	0.9123	0.8427	0.9166	Ave		0.862 3				4.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1 Analy Batch No.: 557456
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 22:30 Calibration End Date: 10/01/2024 00:40 Calibration ID: 66268

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Heptane	0.2359 0.2957	0.2754 0.2738	0.3141	0.2585	0.3160	Ave		0.281 3				10.4		20.0			
n-Butanol	0.2466 0.2857	0.2891 0.2610	0.2815	0.2726	0.2849	Ave		0.274 5				5.7		20.0			
Trichloroethene	0.2460 0.2804	0.2840 0.2676	0.3083	0.2697	0.3050	Ave		0.280 1			0.2000	7.8		20.0			
Ethyl acrylate	0.4611 0.4308	0.4330 0.4297	0.4243	0.4216	0.4483	Ave		0.435 6				3.2		20.0			
Methylcyclohexane	0.3299 0.5394	0.4389 0.5241	0.5516	0.4526	0.5732	Ave		0.487 1			0.1000	17.6		20.0			
1,2-Dichloropropane	0.2312 0.2706	0.2557 0.2620	0.2953	0.2661	0.2905	Ave		0.267 3			0.1000	8.1		20.0			
t-Amyl ethyl ether	0.3487 0.4204	0.3948 0.4356	0.4399	0.3960	0.4413	Ave		0.410 9				8.2		20.0			
Methyl methacrylate	0.2314 0.2552	0.2660 0.2524	0.2720	0.2500	0.2644	Ave		0.255 9				5.2		20.0			
1,4-Dioxane	++++ 0.0744	0.0809 0.0691	0.0867	0.0785	0.0796	Ave		0.078 2			0.0050	7.7		20.0			
Dibromomethane	0.1579 0.1815	0.1815 0.1770	0.1912	0.1791	0.1961	Ave		0.180 6				6.7		20.0			
Bromodichloromethane	0.2579 0.3218	0.2908 0.3180	0.3286	0.3025	0.3357	Ave		0.307 9			0.2000	8.7		20.0			
2-Nitropropane	1.8329 1.7416	1.7237 1.7025	1.7850	1.7234	1.8804	Ave		1.769 9				3.7		20.0			
2-Chloroethyl vinyl ether	0.1605 0.1955	0.1824 0.1993	0.1919	0.1884	0.2028	Ave		0.188 7				7.5		20.0			
cis-1,3-Dichloropropene	0.3810 0.4223	0.3800 0.4291	0.4252	0.3960	0.4427	Ave		0.410 9			0.2000	6.1		20.0			
4-Methyl-2-pentanone (MIBK)	0.4617 0.4553	0.4390 0.4422	0.4571	0.4425	0.4889	Ave		0.455 2			0.1000	3.8		20.0			
Toluene	0.7971 0.8804	0.8513 0.8100	0.9679	0.8800	0.9499	Ave		0.876 7			0.4000	7.4		20.0			
trans-1,3-Dichloropropene	0.4594 0.5027	0.4792 0.4825	0.5135	0.4809	0.5208	Ave		0.491 3			0.1000	4.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1 Analy Batch No.: 557456
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 22:30 Calibration End Date: 10/01/2024 00:40 Calibration ID: 66268

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethyl methacrylate	0.5627 0.5863	0.5927 0.5341	0.6307	0.5848	0.6299	Ave		0.588 8				5.9		20.0			
1,1,2-Trichloroethane	0.3345 0.3260	0.3281 0.3025	0.3538	0.3344	0.3478	Ave		0.332 5			0.1000	5.0		20.0			
Tetrachloroethene	0.2728 0.3752	0.3543 0.3485	0.4190	0.3656	0.4071	Ave		0.363 2			0.2000	13.1		20.0			
1,3-Dichloropropane	0.5282 0.5419	0.5527 0.5091	0.5848	0.5344	0.5736	Ave		0.546 4				4.8		20.0			
2-Hexanone	0.5212 0.4046	0.4300 0.3762	0.4092	0.4107	0.4335	Ave		0.426 5			0.1000	10.7		20.0			
Dibromochloromethane	0.2962 0.3610	0.3061 0.3524	0.3471	0.3305	0.3710	Ave		0.337 7				8.3		20.0			
1,2-Dibromoethane (EDB)	0.3461 0.3608	0.3512 0.3386	0.3839	0.3578	0.3785	Ave		0.359 6			0.1000	4.6		20.0			
1-Chlorohexane	0.4238 0.4858	0.4593 0.4377	0.5261	0.4628	0.5221	Ave		0.473 9				8.3		20.0			
Chlorobenzene	0.8793 1.0010	0.9528 0.9320	1.0980	0.9870	1.0888	Ave		0.991 3			0.5000	8.1		20.0			
1,1,1,2-Tetrachloroethane	0.3096 0.3960	0.3422 0.3654	0.4021	0.3817	0.4184	Ave		0.373 6				10.1		20.0			
Ethylbenzene	1.5128 1.7956	1.6997 1.5982	1.9971	1.7848	1.9441	Ave		1.761 8			0.1000	9.9		20.0			
m&p-Xylene	0.5865 0.7165	0.6759 0.6446	0.7784	0.7004	0.7729	Ave		0.696 5			0.1000	9.8		20.0			
n-Butyl acrylate	0.8237 0.8345	0.8705 0.7413	0.8577	0.8541	0.8723	Ave		0.836 3				5.4		20.0			
o-Xylene	0.5930 0.7464	0.7134 0.6758	0.8144	0.7458	0.8084	Ave		0.728 2			0.3000	10.6		20.0			
Styrene	0.9775 1.1424	1.0537 1.0381	1.2216	1.1385	1.2181	Ave		1.112 8			0.3000	8.4		20.0			
Bromoform	0.2115 0.2852	0.2365 0.2725	0.2711	0.2578	0.2898	Ave		0.260 7			0.1000	10.7		20.0			
Isopropylbenzene	1.3159 1.7485	1.5978 1.5187	1.8645	1.6725	1.8735	Ave		1.655 9			0.1000	12.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1 Analy Batch No.: 557456
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 22:30 Calibration End Date: 10/01/2024 00:40 Calibration ID: 66268

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Cyclohexanone	0.2542 0.2614	0.2700 0.2587	0.2570	0.2673	0.2712	Ave		0.262 8				2.5		20.0			
1,1,2,2-Tetrachloroethane	1.0676 1.1518	1.1531 1.0550	1.1942	1.1299	1.2170	Ave		1.138 4			0.3000	5.3		20.0			
Bromobenzene	0.7591 0.7809	0.7154 0.7446	0.8195	0.7703	0.8517	Ave		0.777 4				5.9		20.0			
trans-1,4-Dichloro-2-butene	0.2702 0.3097	0.2888 0.2960	0.3132	0.2983	0.3265	Ave		0.300 4				6.1		20.0			
1,2,3-Trichloropropane	0.3353 0.3522	0.3485 0.3245	0.3777	0.3654	0.3793	Ave		0.354 7				5.9		20.0			
N-Propylbenzene	2.8743 3.7813	3.4230 3.3078	4.0536	3.6886	4.1303	Ave		3.608 4				12.2		20.0			
2-Chlorotoluene	0.6523 0.8173	0.7404 0.7623	0.8958	0.8025	0.8755	Ave		0.792 3				10.5		20.0			
1,3,5-Trimethylbenzene	2.0835 2.8469	2.4675 2.6209	2.9081	2.6975	3.0893	Ave		2.673 4				12.3		20.0			
4-Chlorotoluene	0.6000 0.7824	0.7029 0.7395	0.8384	0.7760	0.8501	Ave		0.755 6				11.4		20.0			
tert-Butylbenzene	0.3485 0.5600	0.4496 0.5383	0.5419	0.4993	0.5841	Ave		0.503 1				16.1		20.0			
1,2,4-Trimethylbenzene	2.1748 2.9338	2.5497 2.6553	3.0350	2.8601	3.1807	Ave		2.769 9				12.2		20.0			
sec-Butylbenzene	2.2855 3.5493	3.0341 3.1628	3.5780	3.2248	3.7815	Ave		3.230 9				15.3		20.0			
1,3-Dichlorobenzene	1.2910 1.4878	1.3513 1.3698	1.5725	1.4642	1.6079	Ave		1.449 2			0.6000	8.1		20.0			
p-Isopropyltoluene	2.0643 3.1302	2.5948 2.8092	3.1473	2.8823	3.3481	Ave		2.853 7				15.0		20.0			
1,4-Dichlorobenzene	1.3417 1.4963	1.4038 1.3986	1.6236	1.4980	1.6311	Ave		1.484 7			0.5000	7.6		20.0			
1,2,3-Trimethylbenzene	2.4812 3.1347	2.7518 2.8658	3.2260	3.0445	3.3617	Ave		2.980 8				10.1		20.0			
Benzyl chloride	1.8758 2.3735	2.0664 2.1676	2.3025	2.2695	2.4755	Ave		2.218 7				9.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1 Analy Batch No.: 557456
Environment Testing, LLC

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 22:30 Calibration End Date: 10/01/2024 00:40 Calibration ID: 66268

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,3-Diethylbenzene	1.2587 1.7950	1.4899 1.6356	1.8150	1.6958	1.9246	Ave		1.659 2				13.6		20.0			
1,4-Diethylbenzene	1.2730 1.8817	1.6161 1.6924	1.9314	1.7704	2.0259	Ave		1.741 5				14.4		20.0			
n-Butylbenzene	0.9142 1.4757	1.2705 1.3206	1.5000	1.3612	1.5813	Ave		1.346 2				16.3		20.0			
1,2-Dichlorobenzene	1.3356 1.5900	1.4878 1.4406	1.6849	1.5807	1.7053	Ave		1.546 4		0.4000		8.6		20.0			
1,2-Diethylbenzene	1.0418 1.5381	1.2611 1.4308	1.5456	1.4264	1.6287	Ave		1.410 3				14.2		20.0			
1,2-Dibromo-3-Chloropropane	0.2983 0.3562	0.3312 0.3326	0.3588	0.3313	0.3652	Ave		0.339 1		0.0500		6.8		20.0			
1,3,5-Trichlorobenzene	0.8489 1.1580	1.0164 1.0456	1.1767	1.1257	1.2298	Ave		1.085 9				11.8		20.0			
1,2,4-Trichlorobenzene	0.9361 1.1525	1.0656 1.0346	1.1749	1.1338	1.2238	Ave		1.103 0		0.2000		8.8		20.0			
2-Ethylhexyl acrylate	0.8423 1.1173	0.9814 0.9923	1.0037	1.0646	1.1746	Ave		1.025 2				10.5		20.0			
Hexachlorobutadiene	0.2631 0.4029	0.3327 0.3665	0.4017	0.3495	0.4215	Ave		0.362 6				14.9		20.0			
Naphthalene	4.0948 4.8426	4.6515 4.0258	5.0975	4.8859	5.2342	Ave		4.690 3				10.0		20.0			
1,2,3-Trichlorobenzene	0.9557 1.1929	1.1001 1.0615	1.2301	1.1837	1.2733	Ave		1.142 4				9.6		20.0			
2-Methylnaphthalene	1.8241 2.4798	2.0539 2.1178	2.3708	2.3556	2.5934	Ave		2.256 5				11.9		20.0			
Dibromofluoromethane (Surr)	0.2420 0.2358	0.2447 0.2345	0.2440	0.2406	0.2396	Ave		0.240 2				1.6		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0633 0.0622	0.0630 0.0625	0.0643	0.0613	0.0620	Ave		0.062 7				1.5		20.0			
Toluene-d8 (Surr)	1.3262 1.3265	1.3336 1.2990	1.3175	1.3267	1.3128	Ave		1.320 3				0.9		20.0			
4-Bromofluorobenzene (Surr)	0.5011 0.4906	0.5097 0.4768	0.5032	0.5029	0.4898	Ave		0.496 3				2.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1 Analy Batch No.: 557456
Environment Testing, LLC

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 22:30 Calibration End Date: 10/01/2024 00:40 Calibration ID: 66268

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-557456/12	WS30X11.D
Level 2	IC 410-557456/13	WS30X12.D
Level 3	IC 410-557456/14	WS30X13.D
Level 4	IC 410-557456/15	WS30X14.D
Level 5	ICIS 410-557456/16	WS30X15.D
Level 6	IC 410-557456/17	WS30X16.D
Level 7	IC 410-557456/18	WS30X17.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	8885 1215566	49967 3522573	126241	244193	631663	1.00 100	4.00 300	10.0	20.0	50.0
Chloromethane	FB	Ave	11925 1091227	47887 3139822	113914	231020	562489	1.00 100	4.00 300	10.0	20.0	50.0
Vinyl chloride	FB	Ave	9351 1121083	49275 3247567	116935	233897	583066	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Butadiene	FB	Ave	9013 1116534	51061 3280146	122330	235313	602098	1.00 100	4.00 300	10.0	20.0	50.0
Bromomethane	FB	Ave	7767 788498	33762 2272915	81395	168162	395486	1.00 100	4.00 300	10.0	20.0	50.0
Chloroethane	FB	Ave	5006 557286	24048 1618220	58871	117820	287114	1.00 100	4.00 300	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	15401 1689772	71911 4854327	173341	353465	858850	1.00 100	4.00 300	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	10641 1378198	56907 4073951	142005	283590	715831	1.00 100	4.00 300	10.0	20.0	50.0
n-Pentane	FB	Ave	10441 944815	33660 2948689	100293	172064	513440	1.00 100	4.00 300	10.0	20.0	50.0
Ethanol	TBAd1 0	Ave	4327 221490	20737 618576	45071	86025	107553	62.5 2500	250 7500	500	1000	1250
Freon 123a	FB	Ave	7484 804766	35274 2378469	83890	167102	424446	1.00 100	4.00 300	10.0	20.0	50.0
Acrolein	TBAd1 0	Ave	16083 1837909	60965 6173901	156978	327825	908029	10.0 1002	40.1 3006	100	200	501
1,1-Dichloroethene	FB	Ave	4092 556071	20789 1699230	63084	110203	300766	1.00 100	4.00 300	10.0	20.0	50.0
Freon 113	FB	Ave	4433 722309	24183 2144426	79266	129974	392257	1.00 100	4.00 300	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

Analy Batch No.: 557456

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 22:30 Calibration End Date: 10/01/2024 00:40 Calibration ID: 66268

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Acetone	TBAd1 0	Ave	1728	7976	20209	39936	112579	2.00	8.00	20.0	40.0	100
			216846	671324				200	600			
Methyl iodide	FB	Ave	8810	41553	125675	223164	602414	1.00	4.00	10.0	20.0	50.0
			1123749	3367910				100	300			
2-Propanol	TBAd1 0	Ave	6257	23613	52024	100468	216098	5.00	20.0	50.0	100	250
			514901	1441057				500	1500			
Carbon disulfide	FB	Ave	14300	71627	218250	375072	1052311	1.00	4.00	10.0	20.0	50.0
			1965619	6020548				100	300			
Methyl acetate	FB	Ave	8976	31556	67710	127789	319591	1.00	4.00	10.0	20.0	50.0
			642933	1860715				100	300			
Allyl chloride	FB	Ave	7551	30288	89626	158260	412294	1.00	4.00	10.0	20.0	50.0
			781807	2310838				100	300			
Methylene Chloride	FB	Ave	5839	24618	69936	125972	329895	1.00	4.00	10.0	20.0	50.0
			615161	1857157				100	300			
t-Butyl alcohol	TBAd1 0	Ave	6891	27936	89432	138852	357369	5.00	20.0	50.0	100	250
			715990	2456120				500	1500			
Acrylonitrile	FB	Ave	8658	37953	101537	185025	461493	2.50	10.0	25.0	50.0	125
			921930	2674629				250	750			
trans-1,2-Dichloroethene	FB	Ave	4738	19216	59156	104169	279840	1.00	4.00	10.0	20.0	50.0
			521986	1523172				100	300			
Methyl tert-butyl ether	FB	Ave	18292	75877	213445	390679	982792	1.00	4.00	10.0	20.0	50.0
			1923316	5537585				100	300			
n-Hexane	FB	Ave	4431	23501	77863	129999	386643	1.00	4.00	10.0	20.0	50.0
			720430	2053991				100	300			
1,1-Dichloroethane	FB	Ave	7202	35201	100808	180135	478304	1.00	4.00	10.0	20.0	50.0
			893090	2601096				100	300			
Isopropyl ether	FB	Ave	16798	65501	188857	341836	896028	1.00	4.00	10.0	20.0	50.0
			1736327	5110059				100	300			
2-Chloro-1,3-butadiene	FB	Ave	7116	30092	91267	157987	432569	1.00	4.00	10.0	20.0	50.0
			816717	2340952				100	300			
Ethyl t-butyl ether	FB	Ave	16793	71692	201167	367803	950862	1.00	4.00	10.0	20.0	50.0
			1852385	5478466				100	300			
2-Butanone (MEK)	FB	Ave	11637	39537	98336	184425	485120	2.00	8.00	20.0	40.0	100
			957170	2973408				200	600			
cis-1,2-Dichloroethene	FB	Ave	5367	22707	68285	118947	314959	1.00	4.00	10.0	20.0	50.0
			593010	1722918				100	300			
2,2-Dichloropropane	FB	Ave	7520	36706	111864	190346	521021	1.00	4.00	10.0	20.0	50.0
			1001457	2982941				100	300			

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1 Analy Batch No.: 557456
Environment Testing, LLC

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 22:30 Calibration End Date: 10/01/2024 00:40 Calibration ID: 66268

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Propionitrile	TBA01	Ave	7617 864732	32479 2581349	91611	159836	430222	5.00 500	20.0 1500	50.0	100	250
Methyl acrylate	FB	Ave	9034 881834	33234 2626394	88897	176370	450638	1.00 100	4.00 300	10.0	20.0	50.0
Methacrylonitrile	FB	Ave	8993 903339	35367 2673121	98585	178605	461032	2.50 250	10.0 750	25.0	50.0	125
Bromochloromethane	FB	Ave	2884 309141	12754 890615	33775	61619	158304	1.00 100	4.00 300	10.0	20.0	50.0
Tetrahydrofuran	TBA01	Ave	6838 738753	28732 2182361	78310	143535	376066	5.00 500	20.0 1500	50.0	100	250
Chloroform	FB	Ave	7169 884208	34987 2536121	98503	179713	467281	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	7233 977492	33792 2918030	104690	186755	511785	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexane	FB	Ave	8096 1191765	39374 3556712	127379	212304	626166	1.00 100	4.00 300	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	5466 845720	28084 2568259	86163	151629	439100	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	6255 794634	29769 2303777	86728	152659	423183	1.00 100	4.00 300	10.0	20.0	50.0
Isobutyl alcohol	TBA01	Ave	7382 622404	23327 1788436	64417	115447	290478	12.5 1250	50.0 3750	125	250	625
Benzene	FB	Ave	19910 2224835	83179 6407225	249581	443155	1170854	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	7019 684833	26912 2008681	75882	136665	357436	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl methyl ether	FB	Ave	16258 1839802	69089 5518693	194635	358722	941751	1.00 100	4.00 300	10.0	20.0	50.0
n-Heptane	FB	Ave	4824 630202	22004 1796185	67007	110058	324671	1.00 100	4.00 300	10.0	20.0	50.0
n-Butanol	TBA01	Ave	4016 509359	18014 1451583	47770	89073	236256	12.5 1250	50.0 3750	125	250	625
Trichloroethene	FB	Ave	5031 597517	22687 1755481	65782	114827	313360	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl acrylate	FB	Ave	9428 918002	34587 2818261	90502	179441	460511	1.000 100.0	4.00 300	10.00	20.0	50.0
Methylcyclohexane	FB	Ave	6746	35068	117677	192677	588915	1.00	4.00	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1 Analy Batch No.: 557456
Environment Testing, LLC

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 22:30 Calibration End Date: 10/01/2024 00:40 Calibration ID: 66268

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			1149551	3438038				100	300			
1,2-Dichloropropane	FB	Ave	4727 576677	20433 1718769	62997	113266	298526	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl ethyl ether	FB	Ave	7130 895864	31542 2857356	93842	168579	453463	1.00 100	4.00 300	10.0	20.0	50.0
Methyl methacrylate	FB	Ave	4732 543827	21254 1655738	58021	106423	271635	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dioxane	TBA d10	Ave	++++ 132568	5039 384151	14715	25645	66023	++++ 1250	50.0 3750	125	250	625
Dibromomethane	FB	Ave	3229 386770	14498 1161301	40791	76226	201450	1.00 100	4.00 300	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	5273 685812	23230 2085747	70112	128768	344935	1.00 100	4.00 300	10.0	20.0	50.0
2-Nitropropane	TBA d10	Ave	11938 1241818	42962 3787251	121162	225257	623712	5.00 500	20.0 1500	50.0	100	250
2-Chloroethyl vinyl ether	FB	Ave	3283 416555	14573 1307473	40951	80181	208384	1.00 100	4.00 300	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	7791 899920	30364 2814866	90713	168580	454848	1.00 100	4.00 300	10.0	20.0	50.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	18881 1940441	70152 5801515	195055	376731	1004649	2.00 200	8.00 600	20.0	40.0	100
Toluene	CBZ d5	Ave	12186 1440511	50575 4337072	155402	280084	745106	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBZ d5	Ave	7023 822448	28466 2583759	82450	153062	408566	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl methacrylate	CBZ d5	Ave	8602 959382	35213 2860002	101270	186129	494123	1.00 100	4.00 300	10.0	20.0	50.0
1,1,2-Trichloroethane	CBZ d5	Ave	5114 533449	19494 1619718	56809	106443	272842	1.00 100	4.00 300	10.0	20.0	50.0
Tetrachloroethene	CBZ d5	Ave	4170 613991	21047 1865855	67278	116351	319313	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichloropropane	CBZ d5	Ave	8074 886682	32833 2726047	93895	170065	449913	1.00 100	4.00 300	10.0	20.0	50.0
2-Hexanone	CBZ d5	Ave	15935 1323974	51087 4028380	131400	261431	680130	2.00 200	8.00 600	20.0	40.0	100
Dibromochloromethane	CBZ d5	Ave	4528 590601	18182 1886831	55738	105190	291011	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromoethane (EDB)	CBZ d5	Ave	5291 590317	20866 1813069	61637	113870	296908	1.00 100	4.00 300	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1 Analy Batch No.: 557456
Environment Testing, LLC

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 22:30 Calibration End Date: 10/01/2024 00:40 Calibration ID: 66268

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1-Chlorohexane	CBZd5	Ave	6478 794876	27284 2343693	84471	147283	409587	1.00 100	4.00 300	10.0	20.0	50.0
Chlorobenzene	CBZd5	Ave	13442 1637827	56603 4990695	176291	314129	854128	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBZd5	Ave	4733 647972	20328 1956719	64569	121473	328233	1.00 100	4.00 300	10.0	20.0	50.0
Ethylbenzene	CBZd5	Ave	23126 2938056	100975 8558117	320655	568033	1524986	1.00 100	4.00 300	10.0	20.0	50.0
m&p-Xylene	CBZd5	Ave	17932 2344626	80311 6903101	249947	445831	1212604	2.00 200	8.00 600	20.0	40.0	100
n-Butyl acrylate	CBZd5	Ave	12593 1365568	51718 3969813	137719	271854	684286	1.00 100	4.00 300	10.0	20.0	50.0
o-Xylene	CBZd5	Ave	9065 1221332	42382 3618857	130757	237351	634165	1.00 100	4.00 300	10.0	20.0	50.0
Styrene	CBZd5	Ave	14944 1869239	62596 5558937	196140	362328	955508	1.00 100	4.00 300	10.0	20.0	50.0
Bromoform	CBZd5	Ave	3234 466701	14049 1459378	43534	82064	227330	1.00 100	4.00 300	10.0	20.0	50.0
Isopropylbenzene	CBZd5	Ave	20116 2860914	94923 8131962	299366	532286	1469615	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexanone	TBA d1 0	Ave	16558 466038	67296 1438500	87206	174668	224855	50.0 1250	200 3750	250	500	625
1,1,2,2-Tetrachloroethane	DCBd4	Ave	9401 1067201	40162 3088601	110447	204947	532444	1.00 100	4.00 300	10.0	20.0	50.0
Bromobenzene	DCBd4	Ave	6684 723503	24919 2179824	75799	139723	372621	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd4	Ave	5947 717389	25146 2166819	72427	135245	357093	2.50 250	10.0 750	25.0	50.0	125
1,2,3-Trichloropropane	DCBd4	Ave	2952 326285	12139 950110	34933	66284	165960	1.00 100	4.00 300	10.0	20.0	50.0
N-Propylbenzene	DCBd4	Ave	25309 3503534	119225 9684362	374909	669028	1807071	1.00 100	4.00 300	10.0	20.0	50.0
2-Chlorotoluene	DCBd4	Ave	5744 757249	25788 2231903	82848	145549	383026	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCBd4	Ave	18346 2637790	85943 7673349	268965	489273	1351601	1.00 100	4.00 300	10.0	20.0	50.0
4-Chlorotoluene	DCBd4	Ave	5283 724903	24481 2164998	77545	140752	371921	1.00 100	4.00 300	10.0	20.0	50.0
tert-Butylbenzene	DCBd4	Ave	3069	15660	50116	90555	255538	1.00	4.00	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1 Analy Batch No.: 557456
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 22:30 Calibration End Date: 10/01/2024 00:40 Calibration ID: 66268

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			518910	1575883				100	300			
1,2,4-Trimethylbenzene	DCBd4	Ave	19150 2718328	88805 7773955	280702	518755	1391606	1.00 100	4.00 300	10.0	20.0	50.0
sec-Butylbenzene	DCBd4	Ave	20125 3288624	105678 9259856	330925	584906	1654457	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd4	Ave	11368 1378548	47067 4010251	145435	265570	703470	1.00 100	4.00 300	10.0	20.0	50.0
p-Isopropyltoluene	DCBd4	Ave	18177 2900268	90378 8224615	291088	522782	1464846	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dichlorobenzene	DCBd4	Ave	11814 1386400	48894 4094751	150165	271695	713643	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trimethylbenzene	DCBd4	Ave	21848 2904467	95846 8390256	298365	552194	1470812	1.00 100	4.00 300	10.0	20.0	50.0
Benzyl chloride	DCBd4	Ave	16517 2199137	71974 6346218	212954	411643	1083073	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Diethylbenzene	DCBd4	Ave	11083 1663119	51893 4788548	167868	307584	842062	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Diethylbenzene	DCBd4	Ave	11209 1743446	56290 4954742	178630	321104	886382	1.00 100	4.00 300	10.0	20.0	50.0
n-Butylbenzene	DCBd4	Ave	8050 1367294	44251 3866426	138735	246884	691864	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichlorobenzene	DCBd4	Ave	11760 1473177	51820 4217709	155838	286694	746109	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Diethylbenzene	DCBd4	Ave	9173 1425142	43925 4188985	142947	258709	712566	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	2627 330071	11537 973704	33185	60083	159791	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trichlorobenzene	DCBd4	Ave	7475 1072941	35402 3061215	108834	204171	538079	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd4	Ave	8243 1067878	37115 3028990	108661	205643	535424	1.00 100	4.00 300	10.0	20.0	50.0
2-Ethylhexyl acrylate	DCBd4	Ave	7417 1035318	34183 2905401	92836	193099	513944	1.00 100	4.00 300	10.0	20.0	50.0
Hexachlorobutadiene	DCBd4	Ave	2317 373296	11589 1072980	37150	63391	184404	1.00 100	4.00 300	10.0	20.0	50.0
Naphthalene	DCBd4	Ave	36056 4486888	162013 11786376	471458	886191	2290063	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd4	Ave	8415 1105252	38315 3107647	113766	214692	557108	1.00 100	4.00 300	10.0	20.0	50.0
2-Methylnaphthalene	DCBd4	Ave	16062	71537	219275	427257	1134637	1.00	4.00	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1 Analy Batch No.: 557456
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 22:30 Calibration End Date: 10/01/2024 00:40 Calibration ID: 66268

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			2297642	6200248				100	300			
Dibromofluoromethane (Surr)	FB	Ave	247471 251245	244354 256323	260285	256027	246198	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	64693 66229	62968 68364	68561	65251	63729	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBZd5	Ave	1013715 1085197	990351 1159258	1057709	1055634	1029795	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBZd5	Ave	383022 401370	378527 425534	403973	400112	384224	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1 Analy Batch No.: 557456
Environment Testing, LLC

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 22:30 Calibration End Date: 10/01/2024 00:40 Calibration ID: 66268

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-557456/12	WS30X11.D
Level 2	IC 410-557456/13	WS30X12.D
Level 3	IC 410-557456/14	WS30X13.D
Level 4	IC 410-557456/15	WS30X14.D
Level 5	ICIS 410-557456/16	WS30X15.D
Level 6	IC 410-557456/17	WS30X16.D
Level 7	IC 410-557456/18	WS30X17.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	-23.0 -4.8	10.9	4.9	1.7	9.0	1.1	50 30	30	30	30	30	30
Chloromethane	7.5 -11.8	10.5	-1.6	0.0	0.9	-5.6	50 30	30	30	30	30	30
Vinyl chloride	-14.9 -7.8	14.8	2.0	2.3	5.6	-2.1	50 30	30	30	30	30	30
1,3-Butadiene	-19.1 -8.3	17.2	5.2	1.4	7.5	-3.9	50 30	30	30	30	30	30
Bromomethane	-0.8 -9.5	10.4	-0.4	3.2	0.5	-3.4	50 30	30	30	30	30	30
Chloroethane	-9.1 -8.4	11.7	2.4	2.7	3.7	-3.0	50 30	30	30	30	30	30
Dichlorofluoromethane	-6.9 -8.6	11.2	0.4	2.6	3.3	-2.0	50 30	30	30	30	30	30
Trichlorofluoromethane	-19.6 -4.0	10.1	2.9	3.0	7.7	0.0	50 30	30	30	30	30	30
n-Pentane	11.7 -1.6	-7.8	2.9	-11.5	9.4	-3.0	50 30	30	30	30	30	30
Ethanol	-14.4 -10.4	7.2	7.0	6.0	4.5	0.1	50 30	30	30	30	30	30
Freon 123a	-6.7 -7.6	12.5	0.2	0.0	5.3	-3.8	50 30	30	30	30	30	30
Acrolein	-3.0 9.0	-4.0	-9.2	-1.5	7.5	1.2	50 30	30	30	30	30	30
1,1-Dichloroethene	-23.4 -0.8	-0.3	13.3	-0.8	12.1	-0.1	50 30	30	30	30	30	30
Freon 113	-32.4 2.0	-5.6	15.9	-4.8	19.1	5.7	50 30	30	30	30	30	30
Acetone	-13.0 -1.0	5.0	-2.3	0.2	11.3	-0.2	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1 Analy Batch No.: 557456
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 22:30 Calibration End Date: 10/01/2024 00:40 Calibration ID: 66268

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Methyl iodide	-18.3 -2.6	-1.4	11.7	-0.6	11.2	0.0	50 30	30	30	30	30	30
2-Propanol	23.1 -17.0	21.4	-1.8	-1.5	-16.5	-7.5	50 30	30	30	30	30	30
Carbon disulfide	-23.1 0.9	-1.4	12.5	-3.1	12.7	1.4	50 30	30	30	30	30	30
Methyl acetate	30.9 -15.4	17.8	-5.4	-10.5	-7.3	-10.1	50 30	30	30	30	30	30
Allyl chloride	-2.9 -7.3	-0.3	10.5	-2.2	5.6	-3.5	50 30	30	30	30	30	30
Methylene Chloride	-5.3 -6.1	2.2	8.7	-1.8	6.5	-4.2	50 30	30	30	30	30	30
t-Butyl alcohol	-4.4 -0.2	1.3	19.1	-4.0	-2.6	-9.2	50 30	30	30	30	30	30
Acrylonitrile	-4.3 -7.9	7.3	7.5	-1.8	1.5	-2.3	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-7.0 -6.8	-3.4	11.3	-1.8	9.3	-1.7	50 30	30	30	30	30	30
Methyl tert-butyl ether	-3.2 -8.6	2.8	8.3	-0.6	3.6	-2.3	50 30	30	30	30	30	30
n-Hexane	-31.3 -0.8	-6.8	15.7	-3.2	19.3	7.1	50 30	30	30	30	30	30
1,1-Dichloroethane	-17.0 -6.5	3.9	11.4	-0.3	9.7	-1.2	50 30	30	30	30	30	30
Isopropyl ether	-0.8 -5.9	-1.0	6.9	-3.0	5.3	-1.6	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-9.3 -6.9	-1.8	11.5	-3.2	9.8	-0.1	50 30	30	30	30	30	30
Ethyl t-butyl ether	-6.6 -5.0	2.0	7.2	-1.7	5.2	-1.2	50 30	30	30	30	30	30
2-Butanone (MEK)	19.5 -4.8	3.9	-3.2	-9.0	-0.8	-5.7	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-7.8 -7.8	-0.2	12.4	-1.9	7.6	-2.3	50 30	30	30	30	30	30
2,2-Dichloropropane	-20.3 -1.5	-0.4	13.6	-3.1	9.9	1.8	50 30	30	30	30	30	30
Propionitrile	-6.1 -6.8	4.7	8.4	-1.8	4.2	-2.6	50 30	30	30	30	30	30
Methyl acrylate	5.1 -4.7	-1.0	-0.8	-1.4	4.4	-1.5	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1 Analy Batch No.: 557456
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 22:30 Calibration End Date: 10/01/2024 00:40 Calibration ID: 66268

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Methacrylonitrile	1.1 -6.3	1.8	6.3	-3.5	3.2	-2.5	50 30	30	30	30	30	30
Bromochloromethane	-4.9 -8.5	7.6	6.7	-2.4	3.8	-2.2	50 30	30	30	30	30	30
Tetrahydrofuran	-3.4 -9.7	6.1	6.2	1.1	4.4	-4.6	50 30	30	30	30	30	30
Chloroform	-16.2 -7.6	4.7	10.4	0.9	8.7	-0.8	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-20.3 0.2	-4.7	10.5	-1.2	12.2	3.3	50 30	30	30	30	30	30
Cyclohexane	-25.0 2.7	-6.6	13.1	-5.5	15.4	5.9	50 30	30	30	30	30	30
Carbon tetrachloride	-27.9 5.6	-5.2	9.0	-3.9	15.3	7.1	50 30	30	30	30	30	30
1,1-Dichloropropene	-17.0 -4.7	1.1	10.3	-2.7	11.8	1.2	50 30	30	30	30	30	30
Isobutyl alcohol	22.9 -12.8	1.5	2.9	-4.2	-5.0	-5.3	50 30	30	30	30	30	30
Benzene	-7.7 -7.4	-1.3	10.9	-1.3	8.0	-1.1	50 30	30	30	30	30	30
1,2-Dichloroethane	3.0 -8.1	1.1	6.8	-3.6	4.4	-3.6	50 30	30	30	30	30	30
t-Amyl methyl ether	-7.8 -2.4	0.3	5.8	-2.3	6.3	0.1	50 30	30	30	30	30	30
n-Heptane	-16.2 -2.7	-2.1	11.6	-8.1	12.3	5.1	50 30	30	30	30	30	30
n-Butanol	-10.2 -4.9	5.3	2.6	-0.7	3.8	4.1	50 30	30	30	30	30	30
Trichloroethene	-12.2 -4.5	1.4	10.1	-3.7	8.9	0.1	50 30	30	30	30	30	30
Ethyl acrylate	5.9 -1.3	-0.6	-2.6	-3.2	2.9	-1.1	50 30	30	30	30	30	30
Methylcyclohexane	-32.3 7.6	-9.9	13.2	-7.1	17.7	10.7	50 30	30	30	30	30	30
1,2-Dichloropropane	-13.5 -2.0	-4.3	10.4	-0.5	8.7	1.2	50 30	30	30	30	30	30
t-Amyl ethyl ether	-15.2 6.0	-3.9	7.0	-3.6	7.4	2.3	50 30	30	30	30	30	30
Methyl methacrylate	-9.6 -1.4	4.0	6.3	-2.3	3.3	-0.3	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1 Analy Batch No.: 557456
Environment Testing, LLC

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 22:30 Calibration End Date: 10/01/2024 00:40 Calibration ID: 66268

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dioxane	++++ -11.7	3.4	10.9	0.4	1.8	-4.9	30	50	30	30	30	30
Dibromomethane	-12.6 -2.0	0.5	5.9	-0.9	8.6	0.5	50 30	30	30	30	30	30
Bromodichloromethane	-16.2 3.3	-5.6	6.7	-1.8	9.0	4.5	50 30	30	30	30	30	30
2-Nitropropane	3.6 -3.8	-2.6	0.9	-2.6	6.2	-1.6	50 30	30	30	30	30	30
2-Chloroethyl vinyl ether	-14.9 5.6	-3.3	1.7	-0.2	7.5	3.6	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-7.3 4.4	-7.5	3.5	-3.6	7.7	2.8	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	1.4 -2.9	-3.6	0.4	-2.8	7.4	0.0	50 30	30	30	30	30	30
Toluene	-9.1 -7.6	-2.9	10.4	0.4	8.4	0.4	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-6.5 -1.8	-2.5	4.5	-2.1	6.0	2.3	50 30	30	30	30	30	30
Ethyl methacrylate	-4.4 -9.3	0.7	7.1	-0.7	7.0	-0.4	50 30	30	30	30	30	30
1,1,2-Trichloroethane	0.6 -9.0	-1.3	6.4	0.6	4.6	-1.9	50 30	30	30	30	30	30
Tetrachloroethene	-24.9 -4.1	-2.5	15.4	0.7	12.1	3.3	50 30	30	30	30	30	30
1,3-Dichloropropane	-3.3 -6.8	1.2	7.0	-2.2	5.0	-0.8	50 30	30	30	30	30	30
2-Hexanone	22.2 -11.8	0.8	-4.1	-3.7	1.7	-5.1	50 30	30	30	30	30	30
Dibromochloromethane	-12.3 4.3	-9.4	2.8	-2.1	9.8	6.9	50 30	30	30	30	30	30
1,2-Dibromoethane (EDB)	-3.7 -5.8	-2.3	6.8	-0.5	5.3	0.3	50 30	30	30	30	30	30
1-Chlorohexane	-10.6 -7.6	-3.1	11.0	-2.4	10.2	2.5	50 30	30	30	30	30	30
Chlorobenzene	-11.3 -6.0	-3.9	10.8	-0.4	9.8	1.0	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-17.1 -2.2	-8.4	7.6	2.2	12.0	6.0	50 30	30	30	30	30	30
Ethylbenzene	-14.1 -9.3	-3.5	13.4	1.3	10.3	1.9	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1 Analy Batch No.: 557456
Environment Testing, LLC

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 22:30 Calibration End Date: 10/01/2024 00:40 Calibration ID: 66268

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
m&p-Xylene	-15.8 -7.4	-2.9	11.8	0.6	11.0	2.9	50 30	30	30	30	30	30
n-Butyl acrylate	-1.5 -11.4	4.1	2.6	2.1	4.3	-0.2	50 30	30	30	30	30	30
o-Xylene	-18.6 -7.2	-2.0	11.8	2.4	11.0	2.5	50 30	30	30	30	30	30
Styrene	-12.2 -6.7	-5.3	9.8	2.3	9.5	2.7	50 30	30	30	30	30	30
Bromoform	-18.8 4.6	-9.3	4.0	-1.1	11.2	9.4	50 30	30	30	30	30	30
Isopropylbenzene	-20.5 -8.3	-3.5	12.6	1.0	13.1	5.6	50 30	30	30	30	30	30
Cyclohexanone	-3.3 -1.6	2.7	-2.2	1.7	3.2	-0.5	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-6.2 -7.3	1.3	4.9	-0.7	6.9	1.2	50 30	30	30	30	30	30
Bromobenzene	-2.4 -4.2	-8.0	5.4	-0.9	9.6	0.5	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-10.1 -1.4	-3.9	4.3	-0.7	8.7	3.1	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-5.5 -8.5	-1.7	6.5	3.0	6.9	-0.7	50 30	30	30	30	30	30
N-Propylbenzene	-20.3 -8.3	-5.1	12.3	2.2	14.5	4.8	50 30	30	30	30	30	30
2-Chlorotoluene	-17.7 -3.8	-6.6	13.1	1.3	10.5	3.2	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-22.1 -2.0	-7.7	8.8	0.9	15.6	6.5	50 30	30	30	30	30	30
4-Chlorotoluene	-20.6 -2.1	-7.0	11.0	2.7	12.5	3.5	50 30	30	30	30	30	30
tert-Butylbenzene	-30.7 7.0	-10.6	7.7	-0.8	16.1	11.3	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-21.5 -4.1	-8.0	9.6	3.3	14.8	5.9	50 30	30	30	30	30	30
sec-Butylbenzene	-29.3 -2.1	-6.1	10.7	-0.2	17.0	9.9	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-10.9 -5.5	-6.8	8.5	1.0	10.9	2.7	50 30	30	30	30	30	30
p-Isopropyltoluene	-27.7 -1.6	-9.1	10.3	1.0	17.3	9.7	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1 Analy Batch No.: 557456
Environment Testing, LLC

SDG No.: _____

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/30/2024 22:30 Calibration End Date: 10/01/2024 00:40 Calibration ID: 66268

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,4-Dichlorobenzene	-9.6 -5.8	-5.5	9.4	0.9	9.9	0.8	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-16.8 -3.9	-7.7	8.2	2.1	12.8	5.2	50 30	30	30	30	30	30
Benzyl chloride	-15.5 -2.3	-6.9	3.8	2.3	11.6	7.0	50 30	30	30	30	30	30
1,3-Diethylbenzene	-24.1 -1.4	-10.2	9.4	2.2	16.0	8.2	50 30	30	30	30	30	30
1,4-Diethylbenzene	-26.9 -2.8	-7.2	10.9	1.7	16.3	8.0	50 30	30	30	30	30	30
n-Butylbenzene	-32.1 -1.9	-5.6	11.4	1.1	17.5	9.6	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-13.6 -6.8	-3.8	9.0	2.2	10.3	2.8	50 30	30	30	30	30	30
1,2-Diethylbenzene	-26.1 1.5	-10.6	9.6	1.1	15.5	9.1	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-12.0 -1.9	-2.3	5.8	-2.3	7.7	5.1	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-21.8 -3.7	-6.4	8.4	3.7	13.3	6.6	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-15.1 -6.2	-3.4	6.5	2.8	10.9	4.5	50 30	30	30	30	30	30
2-Ethylhexyl acrylate	-17.8 -3.2	-4.3	-2.1	3.8	14.6	9.0	50 30	30	30	30	30	30
Hexachlorobutadiene	-27.4 1.1	-8.2	10.8	-3.6	16.3	11.1	50 30	30	30	30	30	30
Naphthalene	-12.7 -14.2	-0.8	8.7	4.2	11.6	3.2	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-16.3 -7.1	-3.7	7.7	3.6	11.5	4.4	50 30	30	30	30	30	30
2-Methylnaphthalene	-19.2 -6.1	-9.0	5.1	4.4	14.9	9.9	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	0.8 -2.4	1.9	1.6	0.2	-0.2	-1.8	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	1.0 -0.2	0.6	2.6	-2.1	-1.0	-0.8	50 30	30	30	30	30	30
Toluene-d8 (Surr)	0.4 -1.6	1.0	-0.2	0.5	-0.6	0.5	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	1.0 -3.9	2.7	1.4	1.3	-1.3	-1.1	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X11.D
 Lims ID: IC v1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 30-Sep-2024 22:30:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0126367-012
 Misc. Info.: IC V1
 Operator ID: MCD07824 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub73
 Method: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Oct-2024 09:08:50 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1618

First Level Reviewer: DVW2

Date: 01-Oct-2024 08:19:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	1.995	2.014	-0.019	19	8885	1.00	0.7705	
7 Chloromethane	50	2.204	2.210	-0.006	97	11925	1.00	1.07	
8 Vinyl chloride	62	2.316	2.326	-0.010	96	9351	1.00	0.8513	
9 Butadiene	39	2.338	2.351	-0.013	90	9013	1.00	0.8085	
11 Bromomethane	94	2.678	2.688	-0.010	88	7767	1.00	0.99	
12 Chloroethane	64	2.755	2.768	-0.013	45	5006	1.00	0.9085	
13 Dichlorofluoromethane	67	3.035	3.038	-0.003	95	15401	1.00	0.9306	
14 Trichlorofluoromethane	101	3.092	3.102	-0.010	32	10641	1.00	0.8043	
15 Pentane	43	3.121	3.134	-0.013	68	10441	1.00	1.12	
17 Ethanol	45	3.250	3.263	-0.013	5	4327	62.5	53.5	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.449	3.445	0.004	13	7484	1.00	0.9328	
19 Acrolein	56	3.532	3.532	0.000	64	16083	10.0	9.72	M
21 1,1-Dichloroethene	96	3.673	3.686	-0.013	38	4092	1.00	0.7664	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.699	3.712	-0.013	1	4433	1.00	0.6763	M
20 Acetone	58	3.721	3.712	0.009	70	1728	2.00	1.74	
25 Iodomethane	142	3.895	3.888	0.007	69	8810	1.00	0.8170	
23 Isopropyl alcohol	45	3.930	3.891	0.039	26	6257	5.00	6.15	M
26 Carbon disulfide	76	3.994	4.010	-0.016	59	14300	1.00	0.7692	
28 Methyl acetate	43	4.135	4.148	-0.013	78	8976	1.00	1.31	
27 3-Chloro-1-propene	41	4.174	4.171	0.003	56	7551	1.00	0.9715	
30 Methylene Chloride	84	4.370	4.379	-0.009	11	5839	1.00	0.9472	
* 32 t-Butyl alcohol-d10 (IS)	65	4.392	4.411	-0.019	41	325657	250.0	250.0	
33 2-Methyl-2-propanol	59	4.527	4.556	-0.029	13	6891	5.00	4.78	
34 Acrylonitrile	53	4.719	4.729	-0.010	49	8658	2.50	2.39	
35 trans-1,2-Dichloroethene	96	4.780	4.790	-0.010	41	4738	1.00	0.9301	
36 Methyl tert-butyl ether	73	4.793	4.793	0.000	78	18292	1.00	0.9684	
37 Hexane	57	5.204	5.223	-0.019	56	4431	1.00	0.6867	
38 1,1-Dichloroethane	63	5.451	5.464	-0.013	93	7202	1.00	0.8302	
40 Isopropyl ether	45	5.528	5.515	0.013	80	16798	1.00	0.99	
41 2-Chloro-1,3-butadiene	53	5.566	5.570	-0.004	86	7116	1.00	0.9073	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 Tert-butyl ethyl ether	59	6.061	6.061	0.000	87	16793	1.00	0.9339	
S 80 1,2-Dichloroethene, Total	100				0			1.85	
44 2-Butanone (MEK)	43	6.256	6.272	-0.016	85	11637	2.00	2.39	
43 cis-1,2-Dichloroethene	96	6.285	6.301	-0.016	83	5367	1.00	0.9215	
45 2,2-Dichloropropane	77	6.317	6.321	-0.004	48	7520	1.00	0.7969	
47 Propionitrile	54	6.375	6.372	0.003	59	7617	5.00	4.70	
48 Methyl acrylate	55	6.388	6.394	-0.006	45	9034	1.00	1.05	
49 Methacrylonitrile	67	6.584	6.584	0.000	57	8993	2.50	2.53	
50 Chlorobromomethane	128	6.619	6.629	-0.010	72	2884	1.00	0.9505	
51 Tetrahydrofuran	71	6.619	6.638	-0.019	92	6838	5.00	4.83	
52 Chloroform	83	6.783	6.780	0.003	89	7169	1.00	0.8379	
\$ 54 Dibromofluoromethane (Surr)	113	6.991	6.994	-0.003	93	247471	50.0	50.4	
55 1,1,1-Trichloroethane	97	7.014	7.014	0.000	57	7233	1.00	0.7967	
56 Cyclohexane	56	7.091	7.100	-0.009	87	8096	1.00	0.7500	
58 Carbon tetrachloride	117	7.203	7.213	-0.010	84	5466	1.00	0.7211	
57 1,1-Dichloropropene	75	7.219	7.219	0.000	82	6255	1.00	0.8301	
59 Isobutyl alcohol	41	7.386	7.396	-0.010	30	7382	12.5	15.4	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.453	7.460	-0.007	70	64693	50.0	50.5	
61 Benzene	78	7.482	7.485	-0.003	47	19910	1.00	0.9228	
62 1,2-Dichloroethane	62	7.559	7.562	-0.003	50	7019	1.00	1.03	
64 Tert-amyl methyl ether	73	7.668	7.678	-0.010	98	16258	1.00	0.9220	
* 65 Fluorobenzene (IS)	96	7.887	7.886	0.001	99	1022466	50.0	50.0	
66 n-Heptane	43	7.896	7.896	0.000	40	4824	1.00	0.8385	a
67 n-Butanol	56	8.278	8.268	0.010	21	4016	12.5	11.2	
68 Trichloroethene	95	8.365	8.368	-0.003	62	5031	1.00	0.8782	
69 Ethyl acrylate	55	8.477	8.480	-0.003	95	9428	1.00	1.06	
70 Methylcyclohexane	83	8.673	8.673	0.000	68	6746	1.00	0.6773	M
71 1,2-Dichloropropane	63	8.711	8.702	0.009	69	4727	1.00	0.8646	
72 2-ethoxy-2-methyl butane	87	8.698	8.708	-0.010	92	7130	1.00	0.8484	
74 Methyl methacrylate	69	8.788	8.785	0.003	94	4732	1.00	0.9042	
75 1,4-Dioxane	88	8.798	8.801	-0.003	35	555	12.5	5.45	
73 Dibromomethane	93	8.817	8.811	0.006	94	3229	1.00	0.8743	
77 Dichlorobromomethane	83	9.048	9.051	-0.003	96	5273	1.00	0.8375	
78 2-Nitropropane	41	9.321	9.327	-0.006	90	11938	5.00	5.18	
79 2-Chloroethyl vinyl ether	63	9.404	9.401	0.003	21	3283	1.00	0.8508	
81 cis-1,3-Dichloropropene	75	9.584	9.584	0.000	94	7791	1.00	0.9272	
83 4-Methyl-2-pentanone (MIBK)	43	9.761	9.761	0.000	97	18881	2.00	2.03	
\$ 84 Toluene-d8 (Surr)	98	9.886	9.886	0.000	93	1013715	50.0	50.2	
85 Toluene	92	9.959	9.956	0.003	99	12186	1.00	0.9093	
S 162 1,3-Dichloropropene, Total	100				0			1.86	
86 trans-1,3-Dichloropropene	75	10.213	10.216	-0.003	90	7023	1.00	0.9351	
87 Ethyl methacrylate	69	10.277	10.271	0.006	87	8602	1.00	0.9557	
88 1,1,2-Trichloroethane	97	10.409	10.415	-0.006	87	5114	1.00	1.01	
90 Tetrachloroethene	166	10.499	10.499	0.000	94	4170	1.00	0.7510	
91 1,3-Dichloropropane	76	10.576	10.576	0.000	92	8074	1.00	0.9667	
94 2-Hexanone	43	10.630	10.627	0.003	97	15935	2.00	2.44	
96 Chlorodibromomethane	129	10.787	10.784	0.003	77	4528	1.00	0.8770	
98 Ethylene Dibromide	107	10.896	10.897	-0.001	97	5291	1.00	0.9626	
S 178 Xylenes, Total	106				0			2.50	
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.326	-0.003	85	764363	50.0	50.0	
103 1-Chlorohexane	91	11.326	11.333	-0.007	36	6478	1.00	0.8941	a
102 Chlorobenzene	112	11.349	11.349	0.000	95	13442	1.00	0.8870	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 1,1,1,2-Tetrachloroethane	131	11.432	11.432	0.000	44	4733	1.00	0.8286	
105 Ethylbenzene	91	11.432	11.436	-0.004	98	23126	1.00	0.8587	
106 m-Xylene & p-Xylene	106	11.551	11.548	0.003	97	17932	2.00	1.68	
107 n-Butyl acrylate	55	11.821	11.824	-0.003	96	12593	1.00	0.9850	
108 o-Xylene	106	11.878	11.878	0.000	95	9065	1.00	0.8143	
109 Styrene	104	11.891	11.891	0.000	83	14944	1.00	0.8784	
110 Bromoform	173	12.048	12.049	-0.001	88	3234	1.00	0.8116	
111 Isopropylbenzene	105	12.177	12.174	0.003	94	20116	1.00	0.7947	
113 Cyclohexanone	55	12.251	12.260	-0.009	93	16558	50.0	48.4	a
\$ 114 4-Bromofluorobenzene (Surr)	95	12.318	12.318	0.000	89	383022	50.0	50.5	
116 1,1,2,2-Tetrachloroethane	83	12.424	12.421	0.003	95	9401	1.00	0.9379	
115 Bromobenzene	156	12.437	12.437	0.000	95	6684	1.00	0.9765	
119 trans-1,4-Dichloro-2-butene	53	12.450	12.446	0.004	76	5947	2.50	2.25	
118 1,2,3-Trichloropropane	110	12.469	12.469	0.000	66	2952	1.00	0.9452	
120 N-Propylbenzene	91	12.504	12.501	0.003	98	25309	1.00	0.7965	
121 2-Chlorotoluene	126	12.578	12.581	-0.003	98	5744	1.00	0.8233	
122 1,3,5-Trimethylbenzene	105	12.639	12.636	0.003	95	18346	1.00	0.7793	
123 4-Chlorotoluene	126	12.674	12.671	0.003	97	5283	1.00	0.7940	
125 tert-Butylbenzene	134	12.876	12.880	-0.004	91	3069	1.00	0.6928	
127 1,2,4-Trimethylbenzene	105	12.925	12.918	0.007	96	19150	1.00	0.7852	
128 sec-Butylbenzene	105	13.040	13.043	-0.003	93	20125	1.00	0.7074	
131 1,3-Dichlorobenzene	146	13.146	13.143	0.003	81	11368	1.00	0.8909	
132 4-Isopropyltoluene	119	13.146	13.149	-0.003	96	18177	1.00	0.7234	
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.197	-0.003	95	440268	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.213	13.213	0.000	95	11814	1.00	0.9037	
148 1,2,3-Trimethylbenzene	105	13.226	13.226	0.000	94	21848	1.00	0.8324	
170 Benzyl chloride	91	13.294	13.294	0.000	98	16517	1.00	0.8454	a
171 1,3-Diethylbenzene	119	13.348	13.348	0.000	95	11083	1.00	0.7586	
172 p-Diethylbenzene	119	13.419	13.419	0.000	91	11209	1.00	0.7309	
173 n-Butylbenzene	92	13.435	13.441	-0.006	95	8050	1.00	0.6791	
174 1,2-Dichlorobenzene	146	13.476	13.473	0.003	96	11760	1.00	0.8636	
175 o-diethylbenzene	119	13.492	13.493	-0.001	92	9173	1.00	0.7387	
176 1,2-Dibromo-3-Chloropropane	75	14.016	14.019	-0.003	86	2627	1.00	0.8798	
177 1,3,5-Trichlorobenzene	180	14.141	14.141	0.000	97	7475	1.00	0.7818	
179 1,2,4-Trichlorobenzene	180	14.567	14.568	-0.001	91	8243	1.00	0.8487	
181 2-Ethylhexyl acrylate	55	14.616	14.622	-0.006	80	7417	1.00	0.8216	
180 Hexachlorobutadiene	225	14.648	14.648	0.000	89	2317	1.00	0.7258	
182 Naphthalene	128	14.754	14.750	0.004	96	36056	1.00	0.8730	
183 1,2,3-Trichlorobenzene	180	14.895	14.895	0.000	95	8415	1.00	0.8365	
184 2-Methylnaphthalene	142	15.543	15.537	0.006	93	16062	1.00	0.8084	
S 205 Total Diethylbenzene	1				0			2.23	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_4ppbEtOH_00696

Amount Added: 12.50

Units: mL

MSV_Cent_ISSS_00031

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 01-Oct-2024 09:08:50

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X11.D

Injection Date: 30-Sep-2024 22:30:30

Instrument ID: 9137

Operator ID: MCD07824

Lims ID: IC v1

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

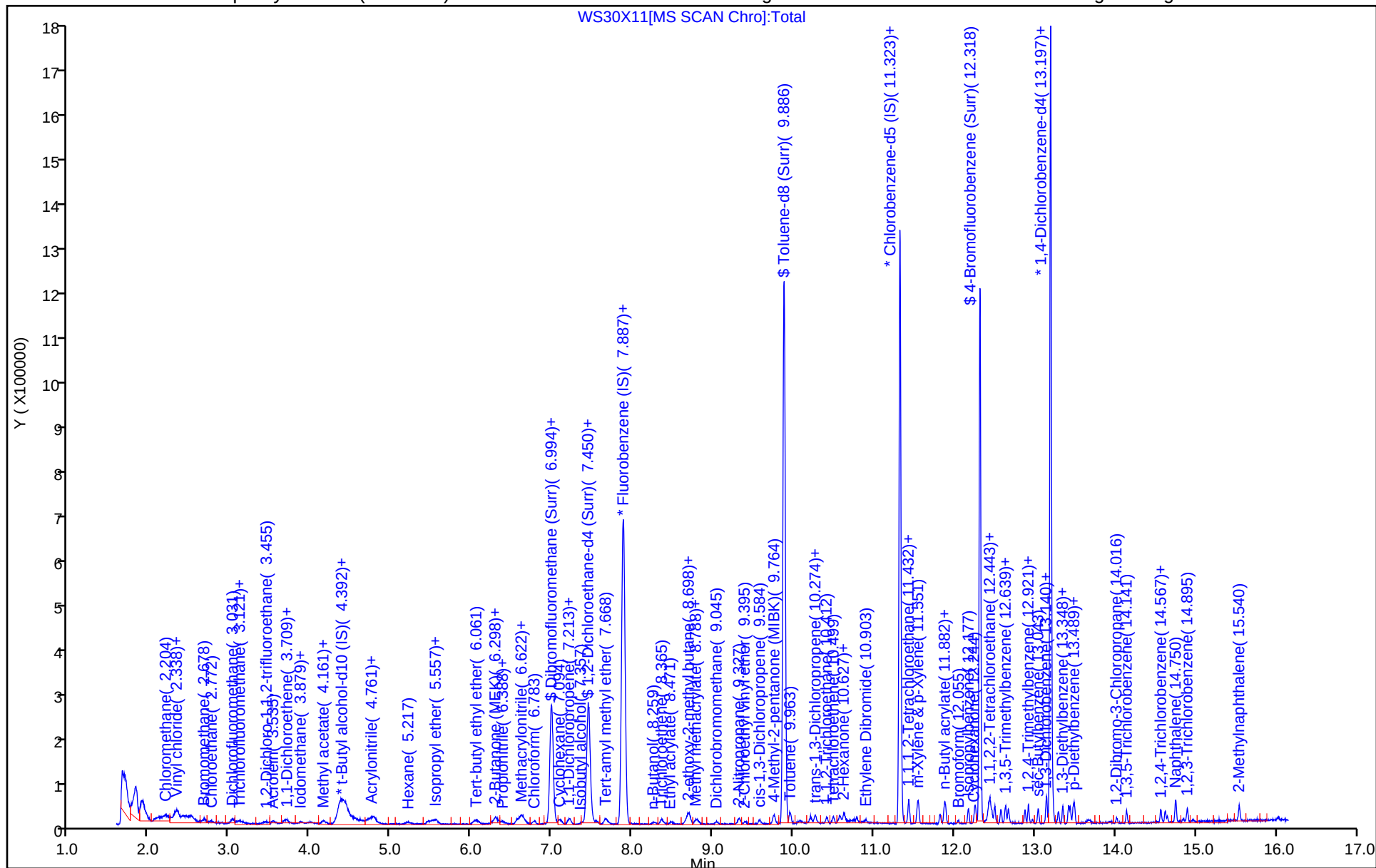
ALS Bottle#: 11

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC

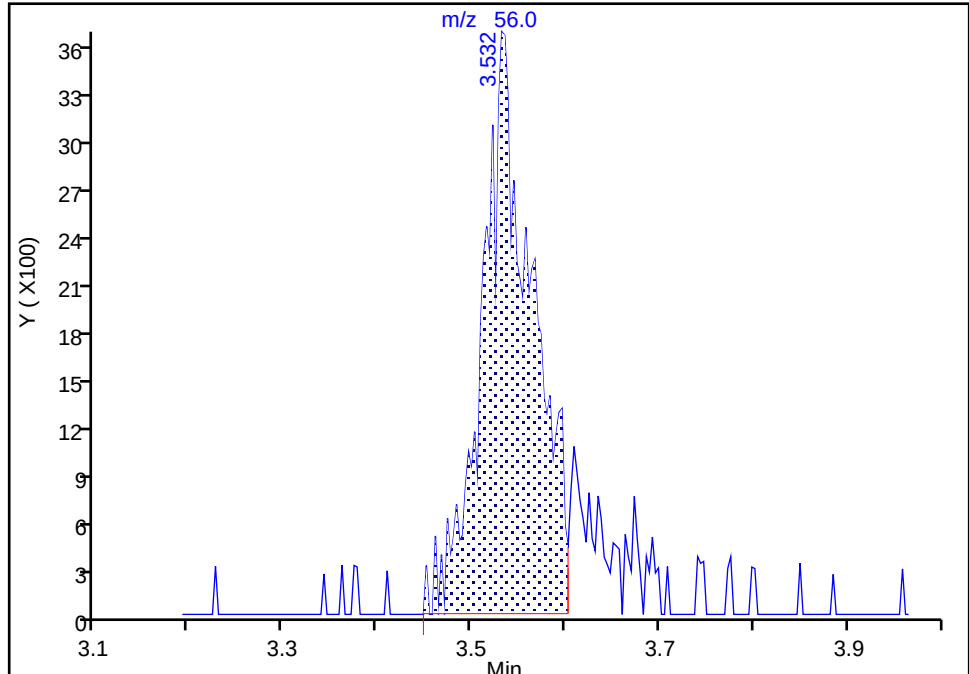
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Injection Date: 30-Sep-2024 22:30:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: MCD07824 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

19 Acrolein, CAS: 107-02-8

Signal: 1

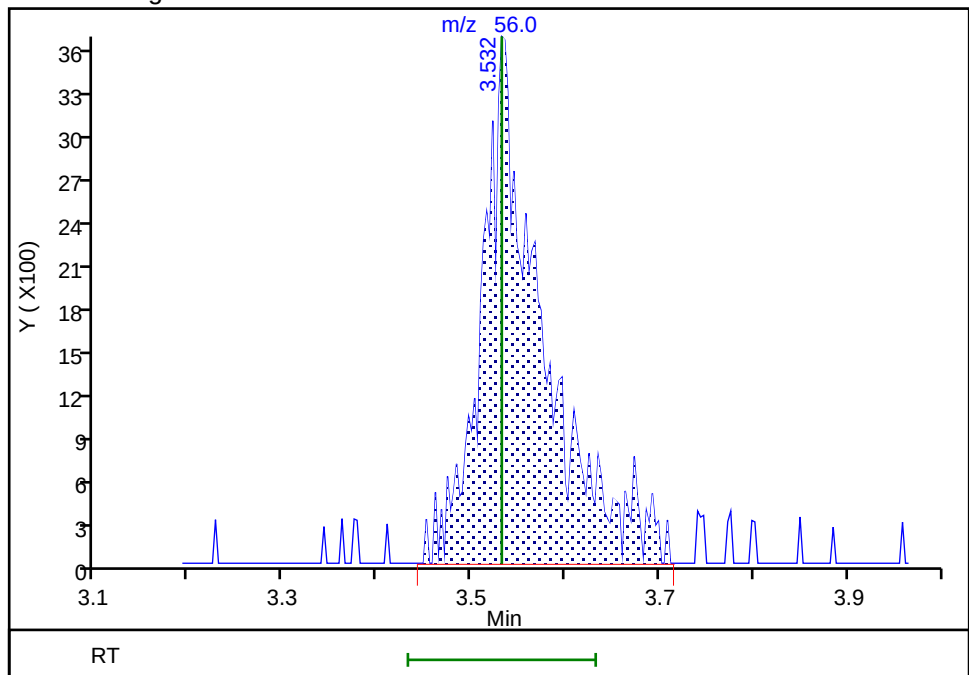
RT: 3.53
Area: 13350
Amount: 8.260093
Amount Units: ug/l

Processing Integration Results



RT: 3.53
Area: 16083
Amount: 9.716859
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:18:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

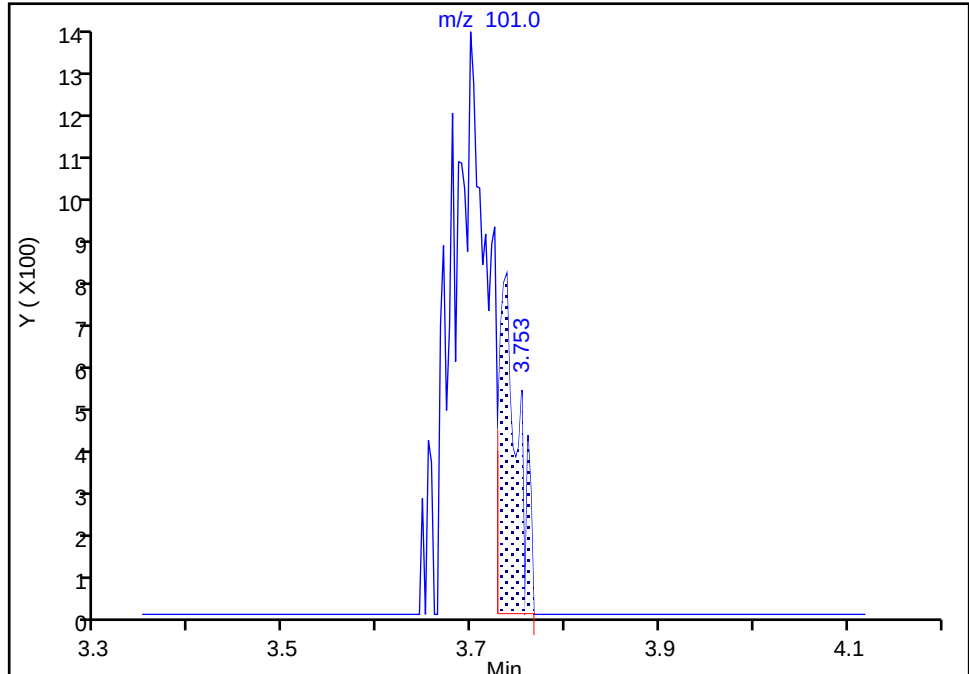
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Injection Date: 30-Sep-2024 22:30:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: MCD07824 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

22 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

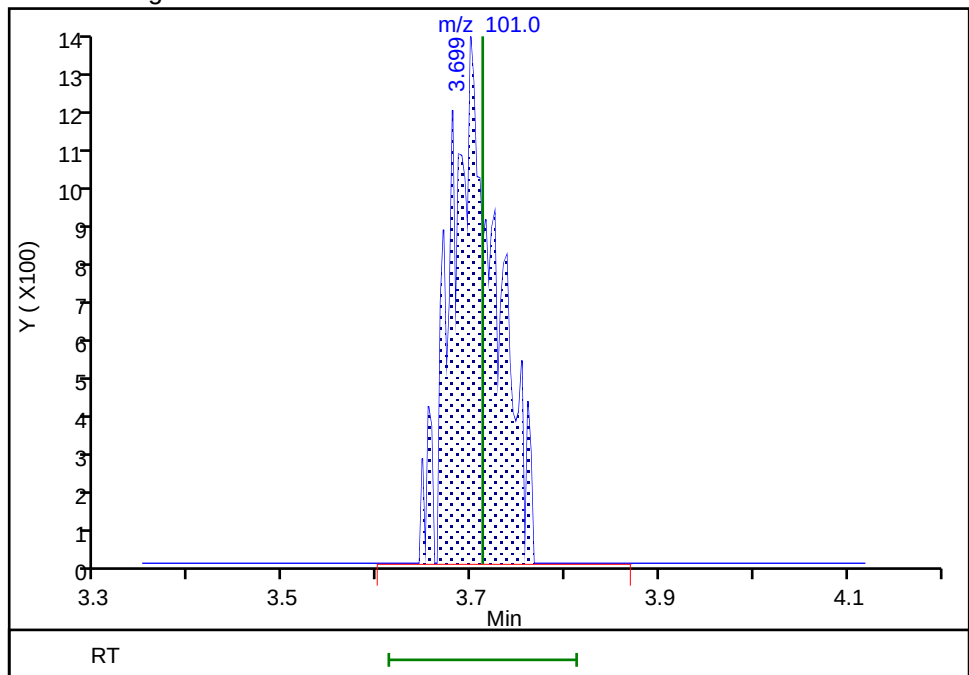
RT: 3.75
Area: 1039
Amount: 0.978771
Amount Units: ug/l

Processing Integration Results



RT: 3.70
Area: 4433
Amount: 0.676251
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:18:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

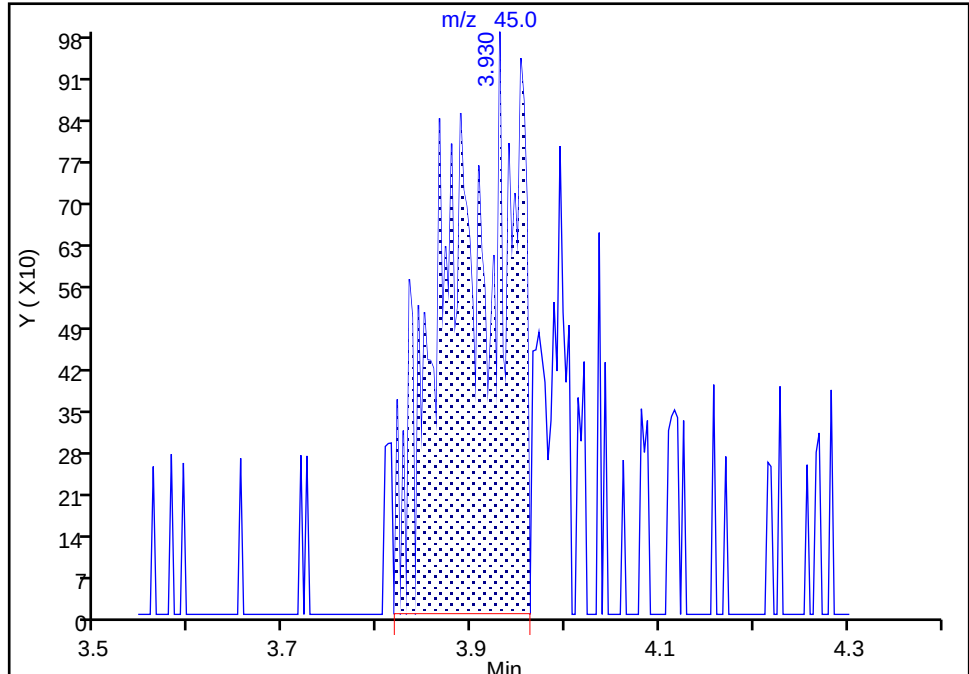
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Injection Date: 30-Sep-2024 22:30:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: MCD07824 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

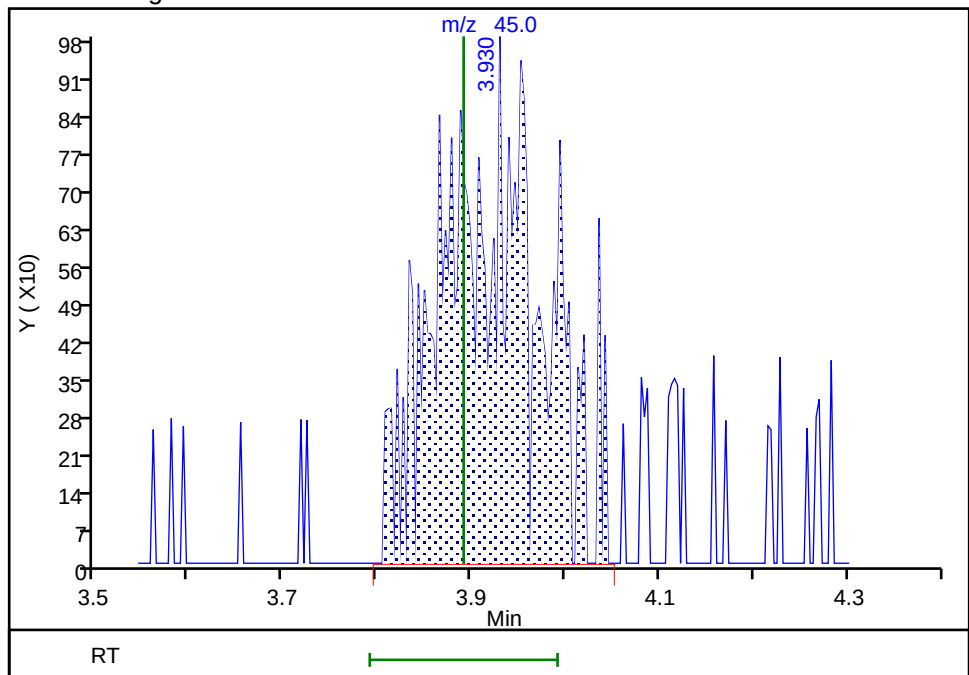
RT: 3.93
Area: 4531
Amount: 4.682741
Amount Units: ug/l

Processing Integration Results



RT: 3.93
Area: 6257
Amount: 6.152953
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:18:43 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

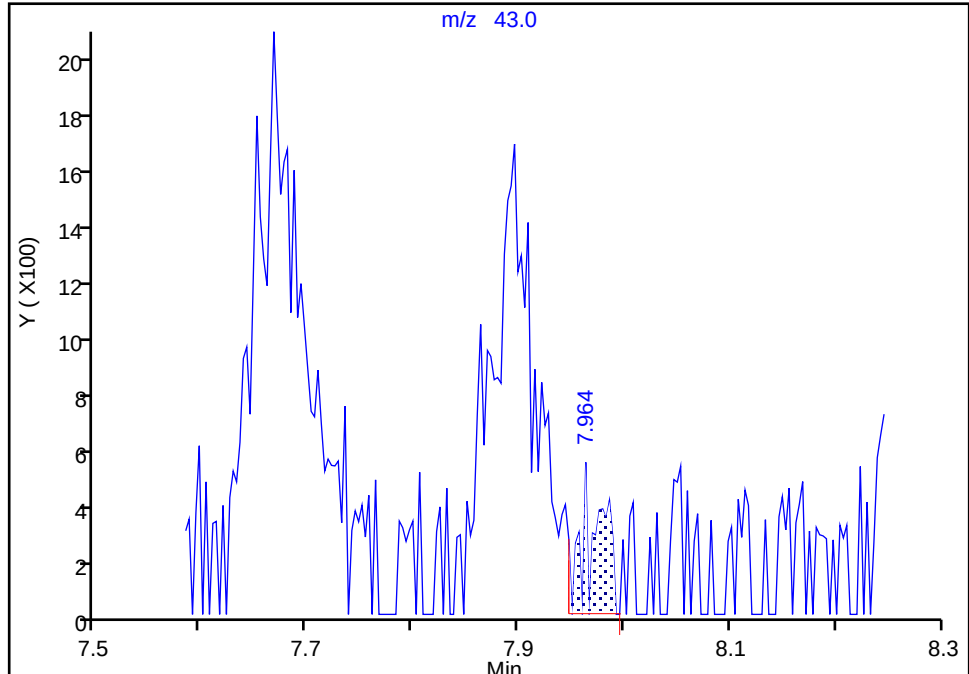
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Injection Date: 30-Sep-2024 22:30:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: MCD07824 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

66 n-Heptane, CAS: 142-82-5

Signal: 1

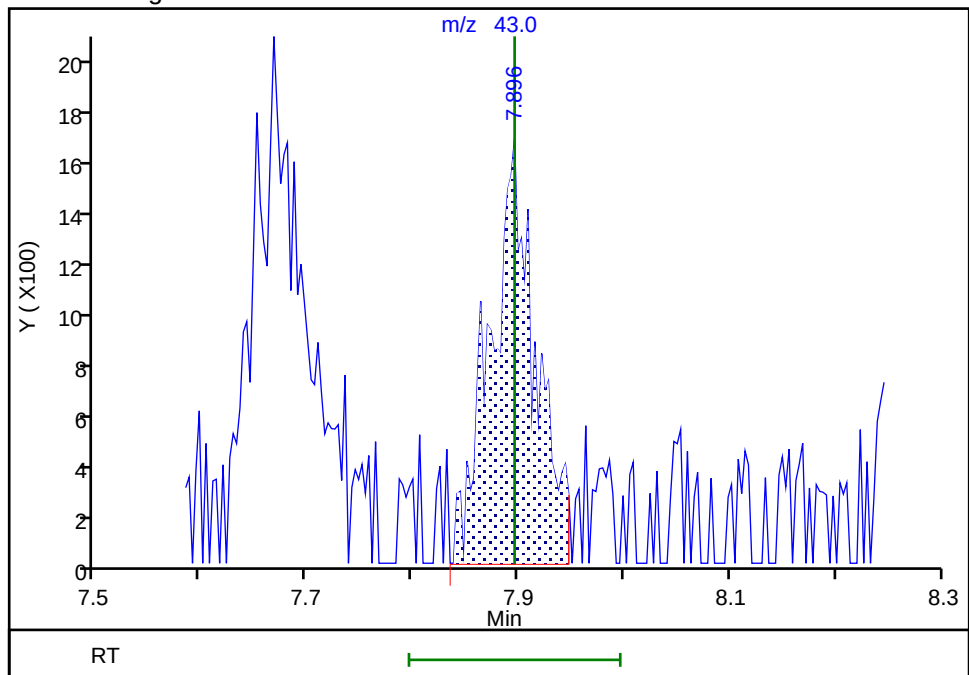
RT: 7.96
Area: 703
Amount: 0.965754
Amount Units: ug/l

Processing Integration Results



RT: 7.90
Area: 4824
Amount: 0.838460
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:19:00 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

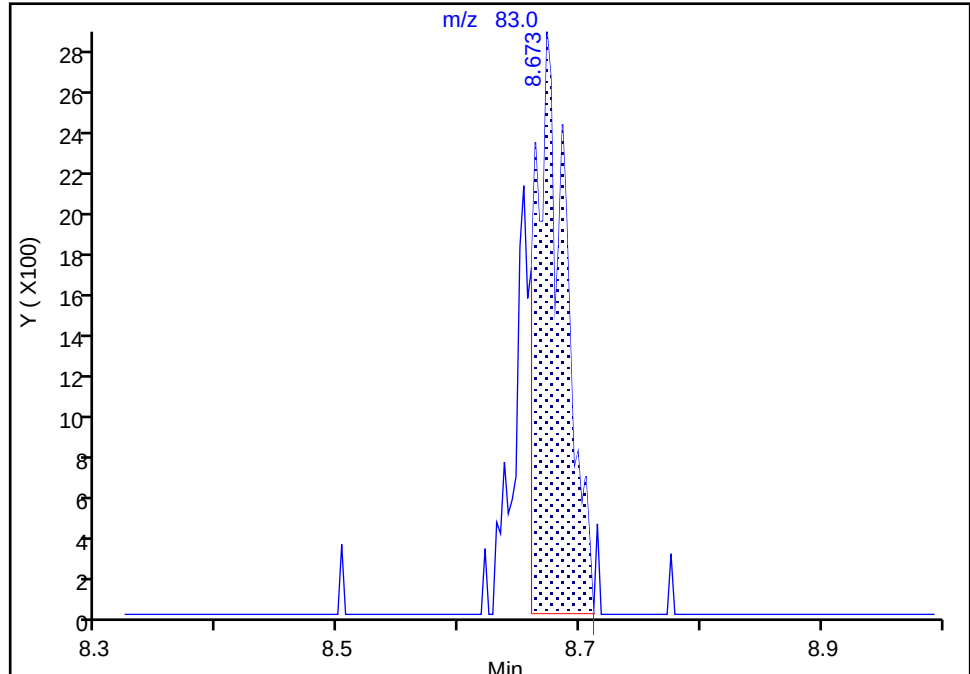
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Injection Date: 30-Sep-2024 22:30:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: MCD07824 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

70 Methylcyclohexane, CAS: 108-87-2

Signal: 1

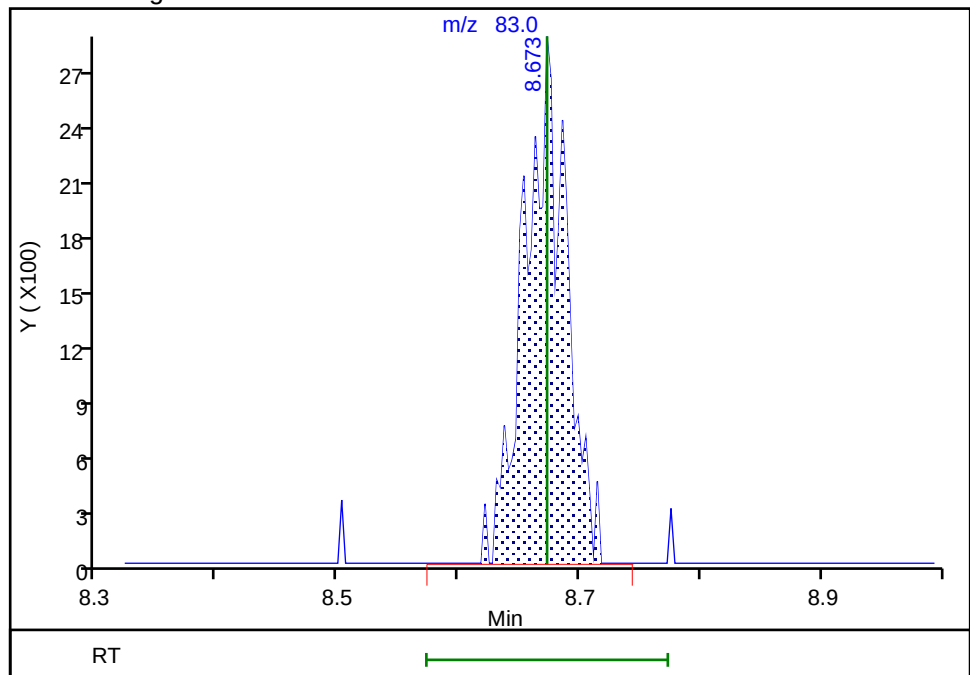
RT: 8.67
Area: 4905
Amount: 1.006223
Amount Units: ug/l

Processing Integration Results



RT: 8.67
Area: 6746
Amount: 0.677251
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:19:08 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X11.D

Injection Date: 30-Sep-2024 22:30:30

Instrument ID: 9137

Lims ID: IC v1

Client ID:

Operator ID: MCD07824

ALS Bottle#:

11

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: MSVoa_9137

Limit Group:

MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

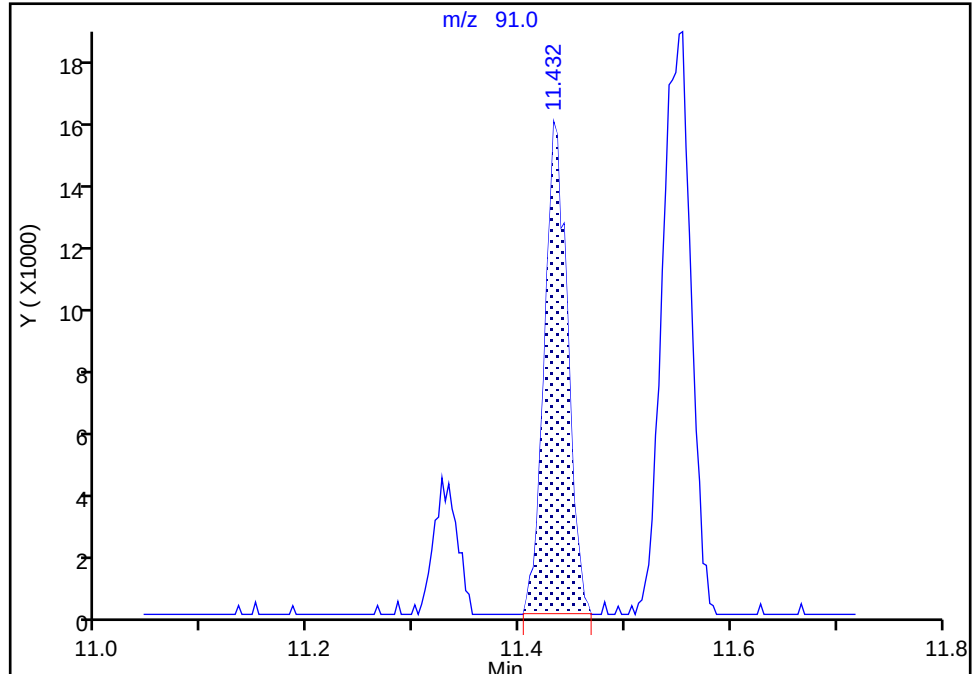
MS Quad

103 1-Chlorohexane, CAS: 544-10-5

Signal: 1

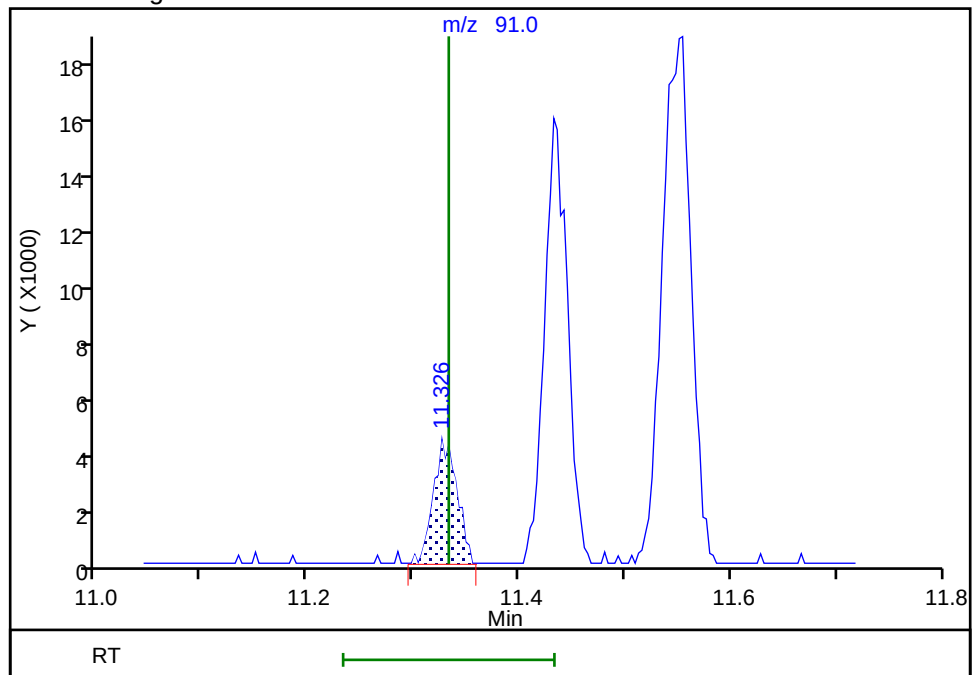
RT: 11.43
Area: 23127
Amount: 2.403170
Amount Units: ug/l

Processing Integration Results



RT: 11.33
Area: 6478
Amount: 0.894120
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:19:21 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

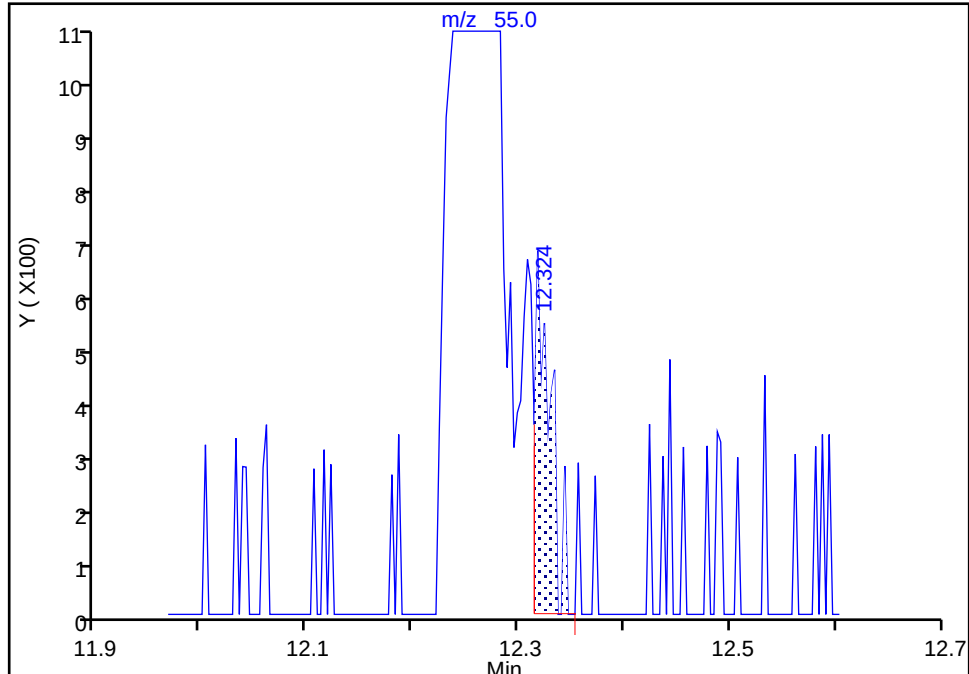
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Injection Date: 30-Sep-2024 22:30:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: MCD07824 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

113 Cyclohexanone, CAS: 108-94-1

Signal: 1

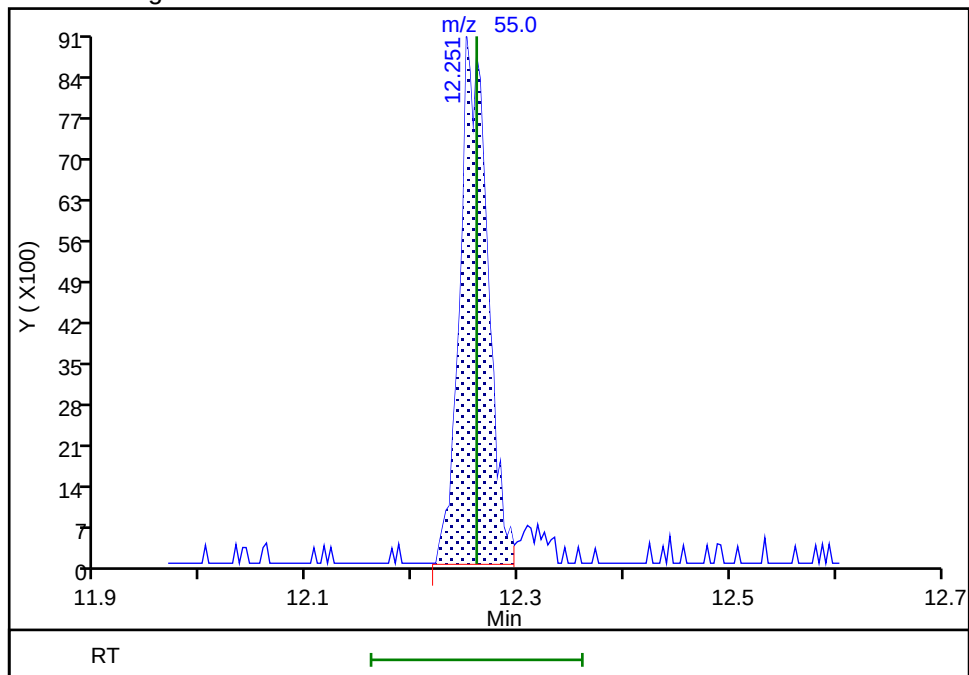
RT: 12.32
Area: 657
Amount: 47.652014
Amount Units: ug/l

Processing Integration Results



RT: 12.25
Area: 16558
Amount: 48.363544
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:19:29 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

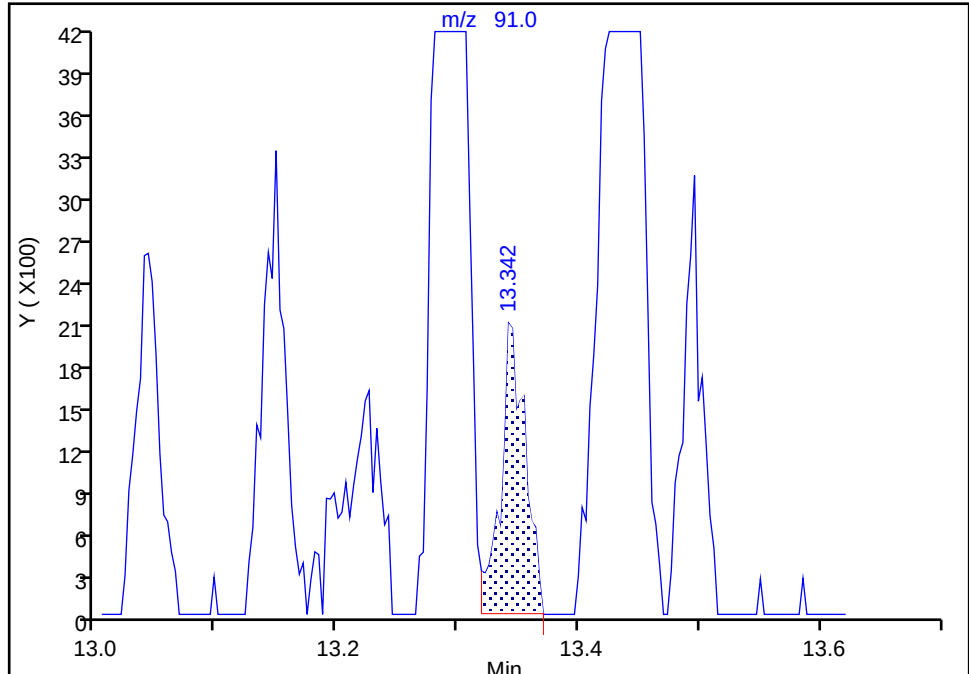
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Injection Date: 30-Sep-2024 22:30:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: MCD07824 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

170 Benzyl chloride, CAS: 100-44-7

Signal: 1

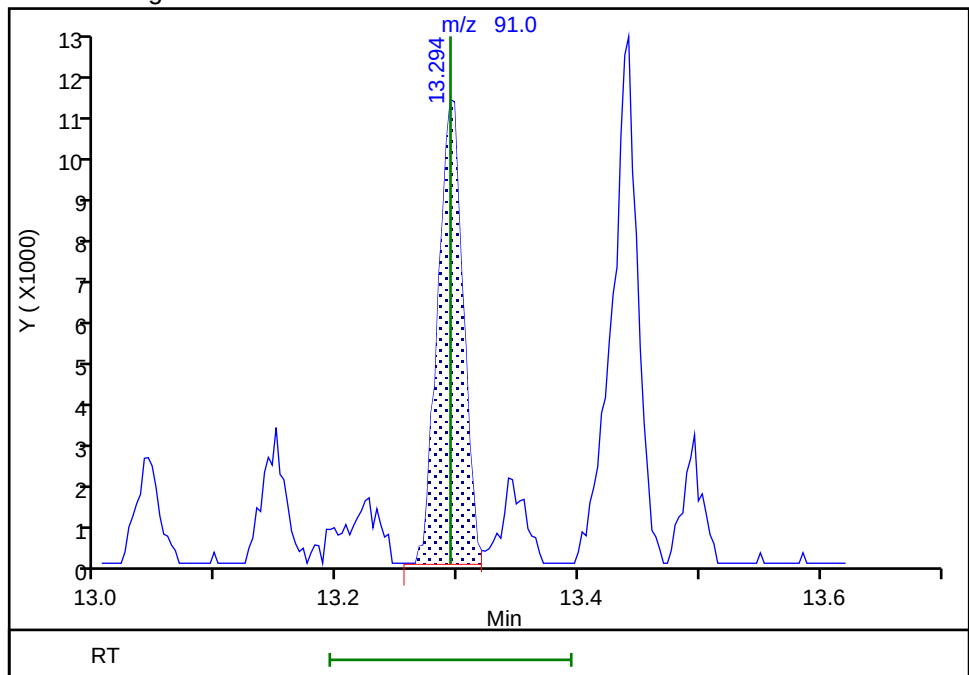
RT: 13.34
Area: 2917
Amount: 0.980092
Amount Units: ug/l

Processing Integration Results



RT: 13.29
Area: 16517
Amount: 0.845447
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:19:39 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X12.D
 Lims ID: IC v4
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 30-Sep-2024 22:52:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0126367-013
 Misc. Info.: IC V4
 Operator ID: MCD07824 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub73
 Method: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Oct-2024 09:09:02 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1618

First Level Reviewer: DVW2

Date: 01-Oct-2024 08:18:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	1.995	2.014	-0.019	98	49967	4.00	4.44	
7 Chloromethane	50	2.203	2.210	-0.007	99	47887	4.00	4.42	
8 Vinyl chloride	62	2.319	2.326	-0.007	98	49275	4.00	4.59	
9 Butadiene	39	2.341	2.351	-0.010	89	51061	4.00	4.69	
11 Bromomethane	94	2.675	2.688	-0.013	91	33762	4.00	4.41	
12 Chloroethane	64	2.762	2.768	-0.006	97	24048	4.00	4.47	
13 Dichlorofluoromethane	67	3.031	3.038	-0.007	98	71911	4.00	4.45	
14 Trichlorofluoromethane	101	3.089	3.102	-0.013	94	56907	4.00	4.40	
15 Pentane	43	3.134	3.134	0.000	90	33660	4.00	3.69	
17 Ethanol	45	3.192	3.263	-0.071	30	20737	250.0	268.1	M
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.442	3.445	-0.003	92	35274	4.00	4.50	
19 Acrolein	56	3.532	3.532	0.000	99	60965	40.1	38.5	
21 1,1-Dichloroethene	96	3.673	3.686	-0.013	97	20789	4.00	3.99	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.702	3.712	-0.010	88	24183	4.00	3.78	
20 Acetone	58	3.728	3.712	0.016	68	7976	8.00	8.40	
25 Iodomethane	142	3.882	3.888	-0.006	96	41553	4.00	3.95	
23 Isopropyl alcohol	45	3.907	3.891	0.016	49	23613	20.0	24.3	
26 Carbon disulfide	76	4.010	4.010	0.000	98	71627	4.00	3.94	
28 Methyl acetate	43	4.145	4.148	-0.003	96	31556	4.00	4.71	
27 3-Chloro-1-propene	41	4.161	4.171	-0.010	92	30288	4.00	3.99	
30 Methylene Chloride	84	4.376	4.379	-0.003	89	24618	4.00	4.09	
* 32 t-Butyl alcohol-d10 (IS)	65	4.398	4.411	-0.013	48	311548	250.0	250.0	
33 2-Methyl-2-propanol	59	4.549	4.556	-0.007	29	27936	20.0	20.3	M
34 Acrylonitrile	53	4.719	4.729	-0.010	97	37953	10.0	10.7	
35 trans-1,2-Dichloroethene	96	4.783	4.790	-0.007	97	19216	4.00	3.86	
36 Methyl tert-butyl ether	73	4.799	4.793	0.006	84	75877	4.00	4.11	
37 Hexane	57	5.213	5.223	-0.010	86	23501	4.00	3.73	
38 1,1-Dichloroethane	63	5.457	5.464	-0.007	96	35201	4.00	4.15	
40 Isopropyl ether	45	5.512	5.515	-0.003	96	65501	4.00	3.96	
41 2-Chloro-1,3-butadiene	53	5.563	5.570	-0.007	91	30092	4.00	3.93	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 Tert-butyl ethyl ether	59	6.051	6.061	-0.010	96	71692	4.00	4.08	
S 80 1,2-Dichloroethene, Total	100				0			7.85	
44 2-Butanone (MEK)	43	6.259	6.272	-0.013	94	39537	8.00	8.32	
43 cis-1,2-Dichloroethene	96	6.298	6.301	-0.003	83	22707	4.00	3.99	
45 2,2-Dichloropropane	77	6.314	6.321	-0.007	77	36706	4.00	3.98	
47 Propionitrile	54	6.381	6.372	0.009	77	32479	20.0	20.9	
48 Methyl acrylate	55	6.381	6.394	-0.013	96	33234	4.00	3.96	
49 Methacrylonitrile	67	6.568	6.584	-0.016	83	35367	10.0	10.2	
50 Chlorobromomethane	128	6.628	6.629	-0.001	87	12754	4.00	4.30	
51 Tetrahydrofuran	71	6.638	6.638	0.000	87	28732	20.0	21.2	
52 Chloroform	83	6.779	6.780	-0.001	95	34987	4.00	4.19	
\$ 54 Dibromofluoromethane (Surr)	113	6.991	6.994	-0.003	93	244354	50.0	50.9	
55 1,1,1-Trichloroethane	97	7.004	7.014	-0.010	95	33792	4.00	3.81	
56 Cyclohexane	56	7.107	7.100	0.007	88	39374	4.00	3.73	
58 Carbon tetrachloride	117	7.219	7.213	0.006	90	28084	4.00	3.79	
57 1,1-Dichloropropene	75	7.222	7.219	0.003	94	29769	4.00	4.04	
59 Isobutyl alcohol	41	7.386	7.396	-0.010	75	23327	50.0	50.8	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.450	7.460	-0.010	70	62968	50.0	50.3	
61 Benzene	78	7.482	7.485	-0.003	96	83179	4.00	3.95	
62 1,2-Dichloroethane	62	7.556	7.562	-0.006	97	26912	4.00	4.04	
64 Tert-amyl methyl ether	73	7.675	7.678	-0.003	98	69089	4.00	4.01	
* 65 Fluorobenzene (IS)	96	7.890	7.886	0.004	99	998700	50.0	50.0	
66 n-Heptane	43	7.893	7.896	-0.003	37	22004	4.00	3.92	a
67 n-Butanol	56	8.268	8.268	0.000	93	18014	50.0	52.7	
68 Trichloroethene	95	8.368	8.368	0.000	98	22687	4.00	4.05	
69 Ethyl acrylate	55	8.483	8.480	0.003	99	34587	4.00	3.98	
70 Methylcyclohexane	83	8.669	8.673	-0.004	90	35068	4.00	3.60	
71 1,2-Dichloropropane	63	8.695	8.702	-0.007	74	20433	4.00	3.83	
72 2-ethoxy-2-methyl butane	87	8.708	8.708	0.000	94	31542	4.00	3.84	
74 Methyl methacrylate	69	8.782	8.785	-0.003	88	21254	4.00	4.16	
75 1,4-Dioxane	88	8.788	8.801	-0.013	37	5039	50.0	51.7	M
73 Dibromomethane	93	8.820	8.811	0.009	80	14498	4.00	4.02	
77 Dichlorobromomethane	83	9.048	9.051	-0.003	99	23230	4.00	3.78	
78 2-Nitropropane	41	9.327	9.327	0.000	98	42962	20.0	19.5	
79 2-Chloroethyl vinyl ether	63	9.407	9.401	0.006	92	14573	4.00	3.87	
81 cis-1,3-Dichloropropene	75	9.584	9.584	0.000	96	30364	4.00	3.70	
83 4-Methyl-2-pentanone (MIBK)	43	9.757	9.761	-0.004	95	70152	8.00	7.72	
\$ 84 Toluene-d8 (Surr)	98	9.882	9.886	-0.004	93	990351	50.0	50.5	
85 Toluene	92	9.963	9.956	0.007	97	50575	4.00	3.88	
S 162 1,3-Dichloropropene, Total	100				0			7.60	
86 trans-1,3-Dichloropropene	75	10.210	10.216	-0.006	89	28466	4.00	3.90	
87 Ethyl methacrylate	69	10.271	10.271	0.000	89	35213	4.00	4.03	
88 1,1,2-Trichloroethane	97	10.412	10.415	-0.003	91	19494	4.00	3.95	
90 Tetrachloroethene	166	10.498	10.499	-0.001	92	21047	4.00	3.90	
91 1,3-Dichloropropane	76	10.575	10.576	-0.001	88	32833	4.00	4.05	
94 2-Hexanone	43	10.630	10.627	0.003	98	51087	8.00	8.07	
96 Chlorodibromomethane	129	10.787	10.784	0.003	95	18182	4.00	3.62	
98 Ethylene Dibromide	107	10.896	10.897	-0.001	98	20866	4.00	3.91	
S 178 Xylenes, Total	106				0			11.7	
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.326	-0.003	85	742596	50.0	50.0	
103 1-Chlorohexane	91	11.330	11.333	-0.003	42	27284	4.00	3.88	a
102 Chlorobenzene	112	11.352	11.349	0.003	96	56603	4.00	3.84	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 1,1,1,2-Tetrachloroethane	131	11.432	11.432	0.000	44	20328	4.00	3.66	
105 Ethylbenzene	91	11.435	11.436	-0.001	98	100975	4.00	3.86	
106 m-Xylene & p-Xylene	106	11.551	11.548	0.003	98	80311	8.00	7.76	
107 n-Butyl acrylate	55	11.820	11.824	-0.004	96	51718	4.00	4.16	
108 o-Xylene	106	11.878	11.878	0.000	96	42382	4.00	3.92	
109 Styrene	104	11.888	11.891	-0.003	93	62596	4.00	3.79	
110 Bromoform	173	12.048	12.049	-0.001	96	14049	4.00	3.63	
111 Isopropylbenzene	105	12.173	12.174	-0.001	95	94923	4.00	3.86	
113 Cyclohexanone	55	12.254	12.260	-0.006	91	67296	200.0	205.5	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.318	12.318	0.000	89	378527	50.0	51.4	
116 1,1,2,2-Tetrachloroethane	83	12.424	12.421	0.003	95	40162	4.00	4.05	
115 Bromobenzene	156	12.437	12.437	0.000	95	24919	4.00	3.68	
119 trans-1,4-Dichloro-2-butene	53	12.443	12.446	-0.003	84	25146	10.0	9.61	
118 1,2,3-Trichloropropane	110	12.465	12.469	-0.004	80	12139	4.00	3.93	
120 N-Propylbenzene	91	12.501	12.501	0.000	98	119225	4.00	3.79	
121 2-Chlorotoluene	126	12.581	12.581	0.000	97	25788	4.00	3.74	
122 1,3,5-Trimethylbenzene	105	12.636	12.636	0.000	94	85943	4.00	3.69	
123 4-Chlorotoluene	126	12.674	12.671	0.003	97	24481	4.00	3.72	
125 tert-Butylbenzene	134	12.879	12.880	-0.001	93	15660	4.00	3.57	
127 1,2,4-Trimethylbenzene	105	12.921	12.918	0.003	97	88805	4.00	3.68	
128 sec-Butylbenzene	105	13.040	13.043	-0.003	93	105678	4.00	3.76	
131 1,3-Dichlorobenzene	146	13.143	13.143	0.000	74	47067	4.00	3.73	
132 4-Isopropyltoluene	119	13.149	13.149	0.000	96	90378	4.00	3.64	
* 133 1,4-Dichlorobenzene-d4	152	13.197	13.197	0.000	94	435377	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.213	13.213	0.000	96	48894	4.00	3.78	
148 1,2,3-Trimethylbenzene	105	13.226	13.226	0.000	97	95846	4.00	3.69	
170 Benzyl chloride	91	13.293	13.294	-0.001	98	71974	4.00	3.73	
171 1,3-Diethylbenzene	119	13.348	13.348	0.000	94	51893	4.00	3.59	
172 p-Diethylbenzene	119	13.422	13.419	0.003	95	56290	4.00	3.71	
173 n-Butylbenzene	92	13.438	13.441	-0.003	97	44251	4.00	3.77	
174 1,2-Dichlorobenzene	146	13.479	13.473	0.006	97	51820	4.00	3.85	
175 o-diethylbenzene	119	13.496	13.493	0.003	95	43925	4.00	3.58	
176 1,2-Dibromo-3-Chloropropane	75	14.019	14.019	0.000	84	11537	4.00	3.91	
177 1,3,5-Trichlorobenzene	180	14.141	14.141	0.000	96	35402	4.00	3.74	
179 1,2,4-Trichlorobenzene	180	14.571	14.568	0.003	94	37115	4.00	3.86	
181 2-Ethylhexyl acrylate	55	14.622	14.622	0.000	80	34183	4.00	3.83	
180 Hexachlorobutadiene	225	14.648	14.648	0.000	96	11589	4.00	3.67	
182 Naphthalene	128	14.753	14.750	0.003	96	162013	4.00	3.97	
183 1,2,3-Trichlorobenzene	180	14.898	14.895	0.003	96	38315	4.00	3.85	
184 2-Methylnaphthalene	142	15.540	15.537	0.003	92	71537	4.00	3.64	
S 205 Total Diethylbenzene	1				0			10.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_VOC#1_00203	Amount Added: 4.00	Units: uL	
MSV_CCV_CYC_00010	Amount Added: 32.00	Units: uL	
MSV_CCV_VOC#3_00200	Amount Added: 3.20	Units: uL	
MSV_CCV_2CEVE_00195	Amount Added: 4.00	Units: uL	
MSV_CCV_ETOH_00007	Amount Added: 20.00	Units: uL	
MSV_CCV_GASES_00881	Amount Added: 2.00	Units: uL	
MSV_CCV_OH_Sp_00014	Amount Added: 4.00	Units: uL	
MSV_Cent_ISSS_00031	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 01-Oct-2024 09:09:03

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X12.D

Injection Date: 30-Sep-2024 22:52:30

Instrument ID: 9137

Operator ID: MCD07824

Lims ID: IC v4

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

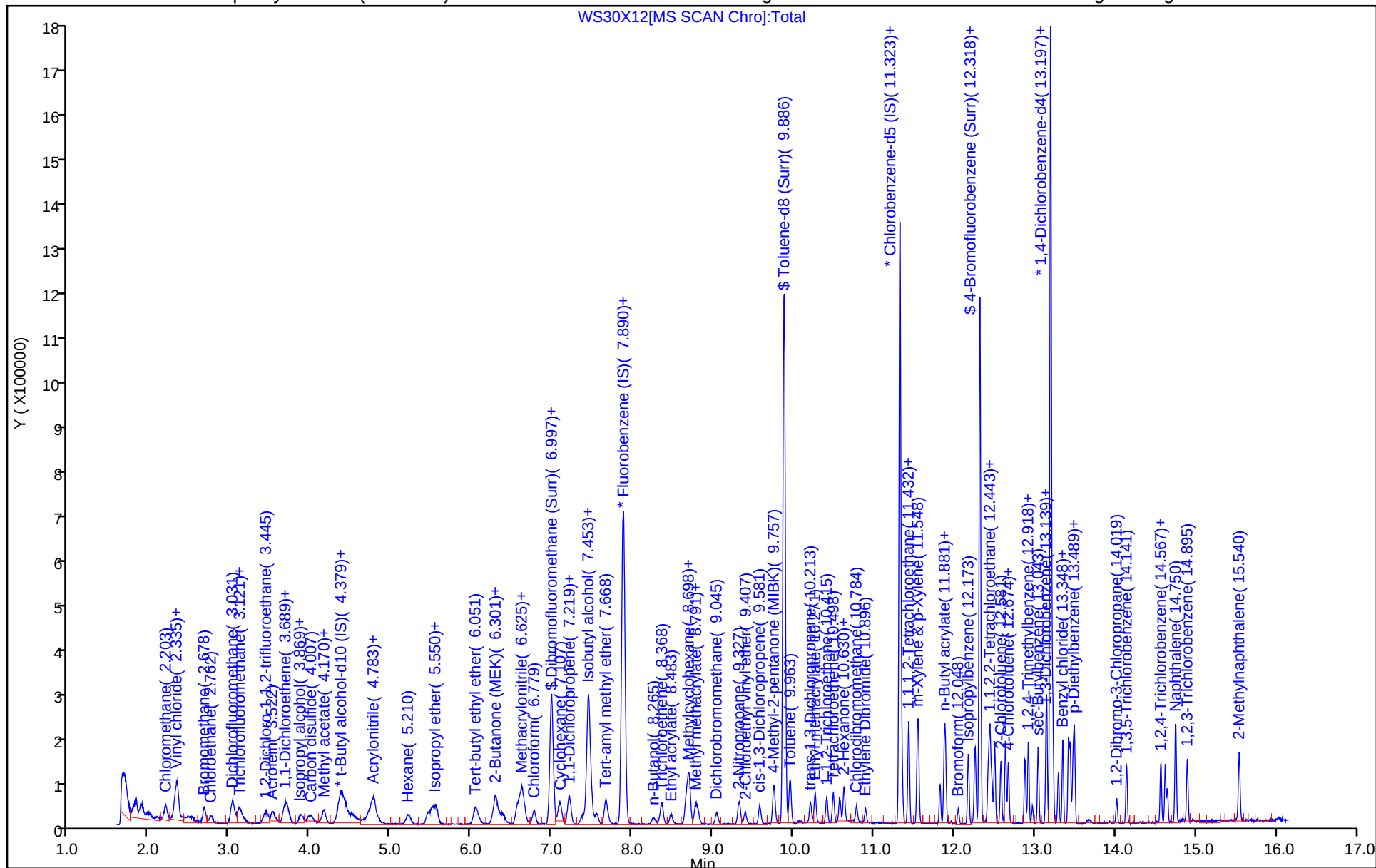
ALS Bottle#: 12

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC

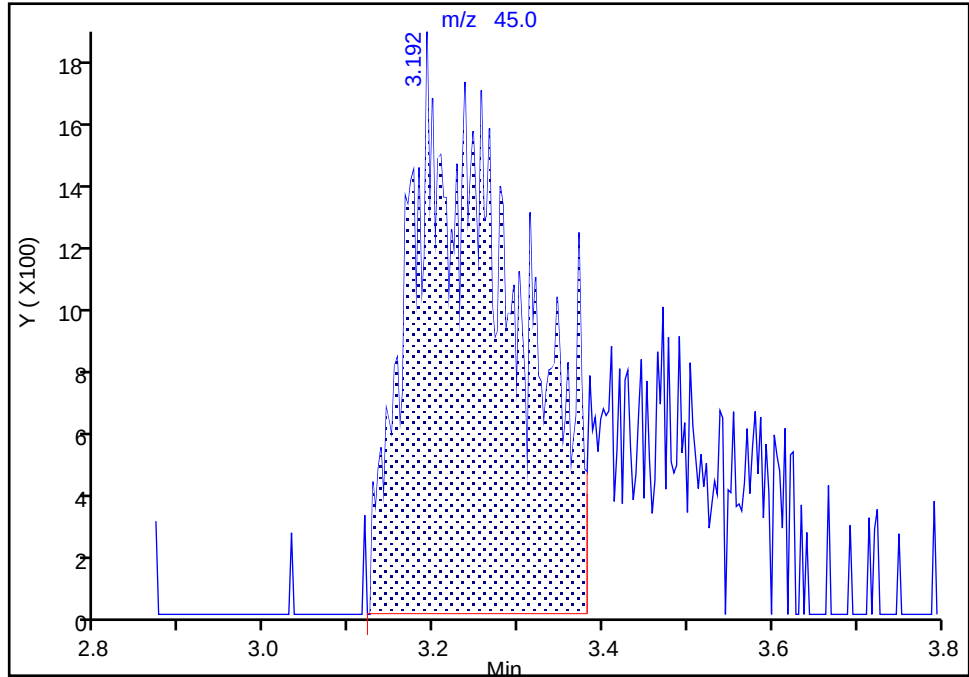
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Injection Date: 30-Sep-2024 22:52:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: MCD07824 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

17 Ethanol, CAS: 64-17-5

Signal: 1

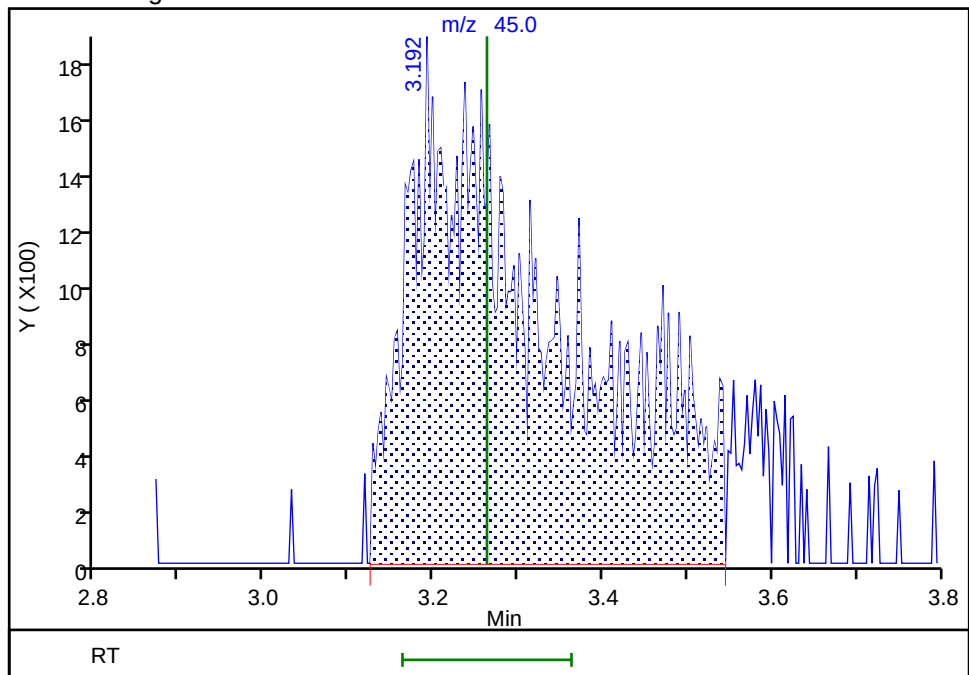
RT: 3.19
Area: 15243
Amount: 205.3778
Amount Units: ug/l

Processing Integration Results



RT: 3.19
Area: 20737
Amount: 268.0623
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:16:23 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

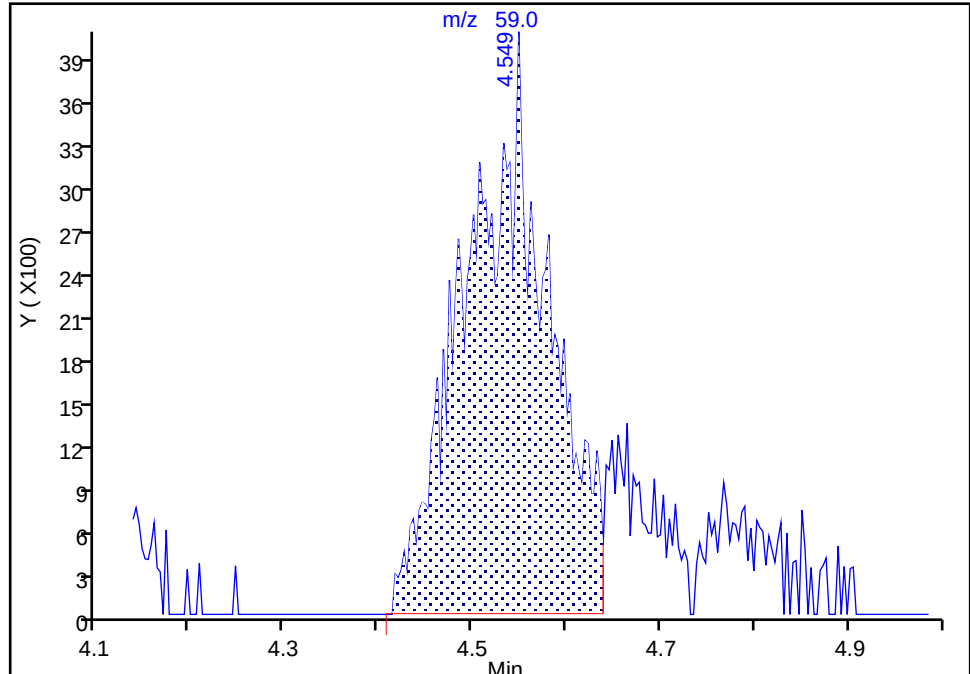
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Injection Date: 30-Sep-2024 22:52:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: MCD07824 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

33 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

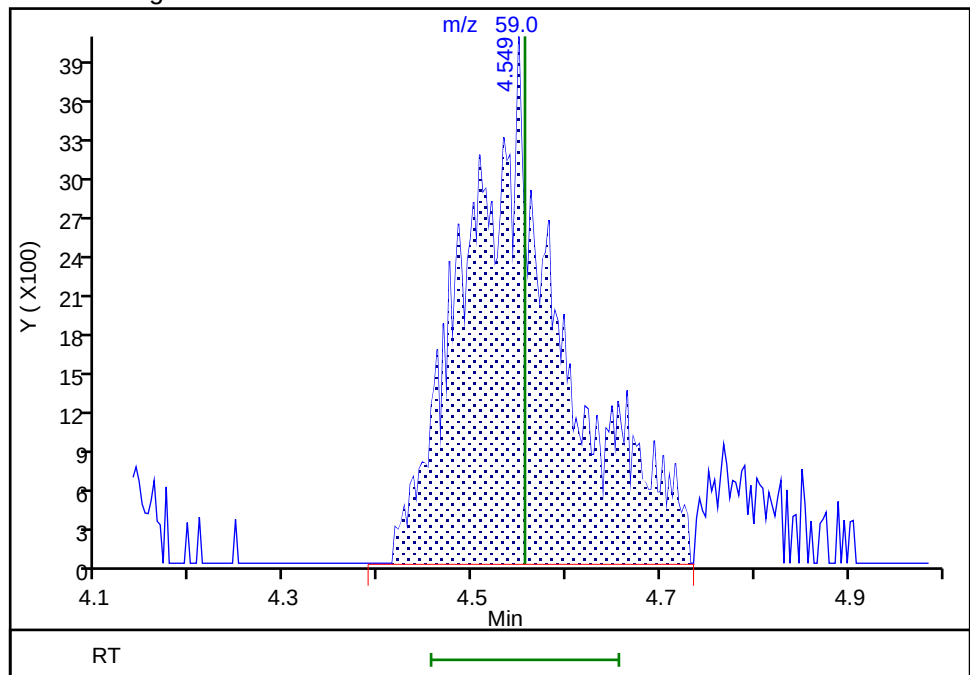
RT: 4.55
Area: 23893
Amount: 17.700582
Amount Units: ug/l

Processing Integration Results



RT: 4.55
Area: 27936
Amount: 20.262255
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:16:38 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X12.D

Injection Date: 30-Sep-2024 22:52:30

Instrument ID: 9137

Lims ID: IC v4

Client ID:

Operator ID: MCD07824

ALS Bottle#:

12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: MSVoa_9137

Limit Group:

MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

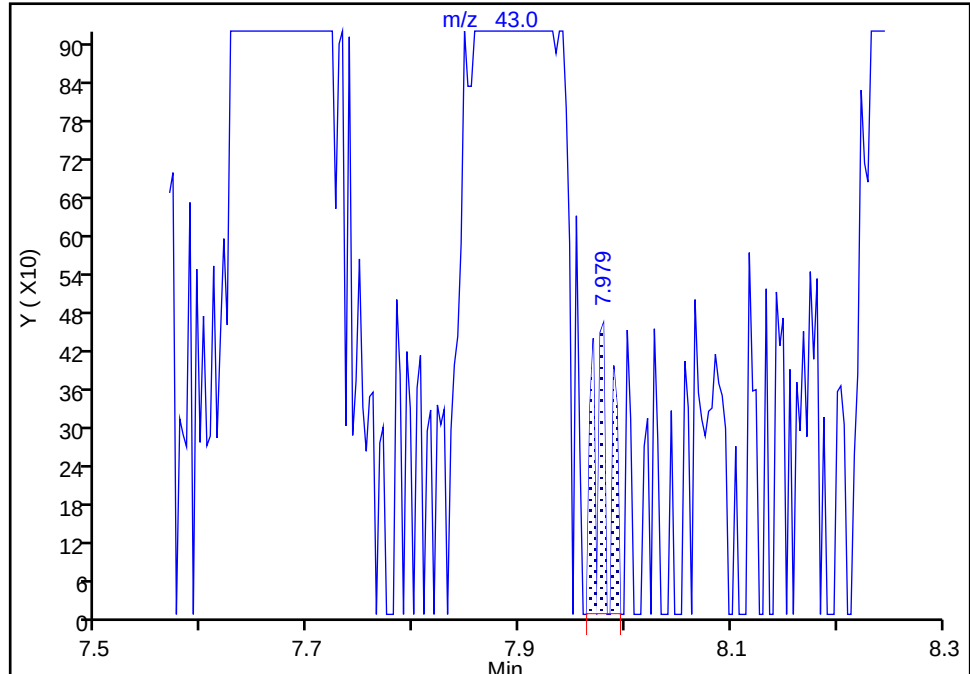
MS Quad

66 n-Heptane, CAS: 142-82-5

Signal: 1

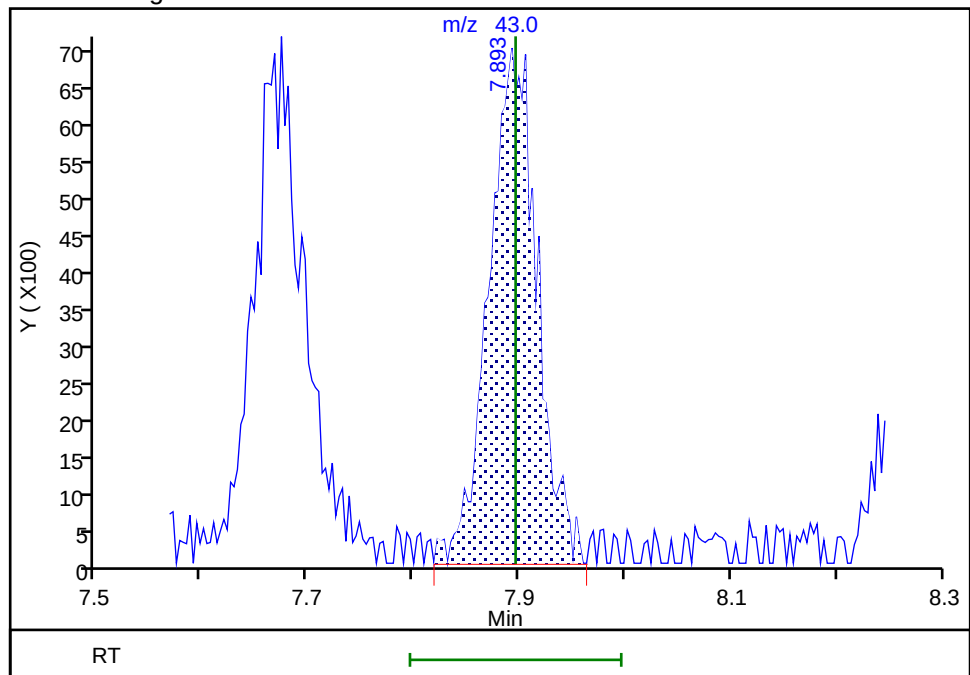
RT: 7.98
Area: 459
Amount: 0.107364
Amount Units: ug/l

Processing Integration Results



RT: 7.89
Area: 22004
Amount: 3.915531
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:17:11 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

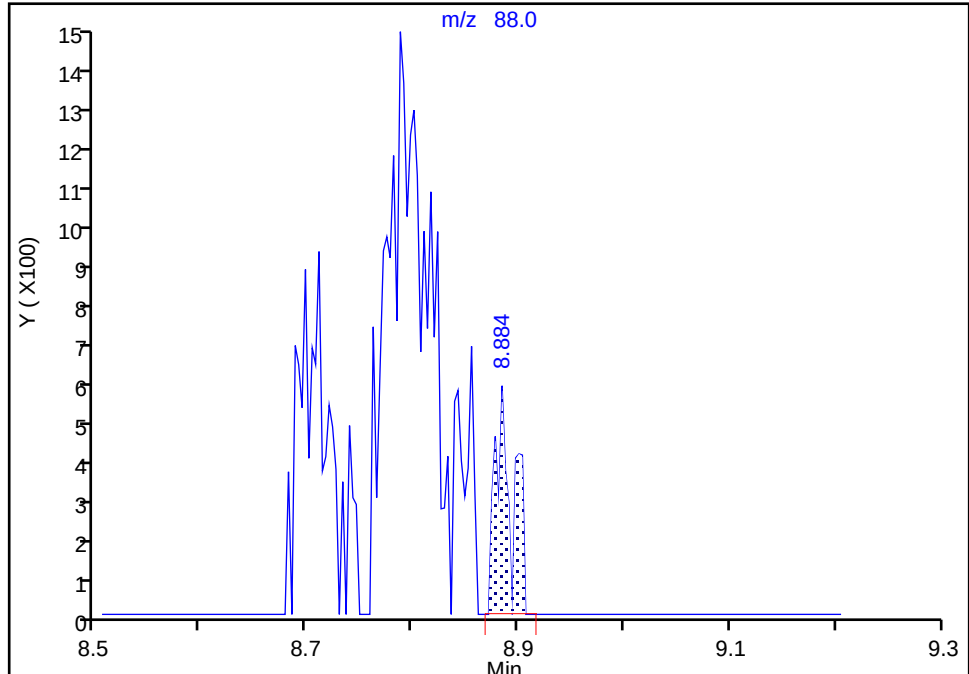
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Injection Date: 30-Sep-2024 22:52:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: MCD07824 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

75 1,4-Dioxane, CAS: 123-91-1

Signal: 1

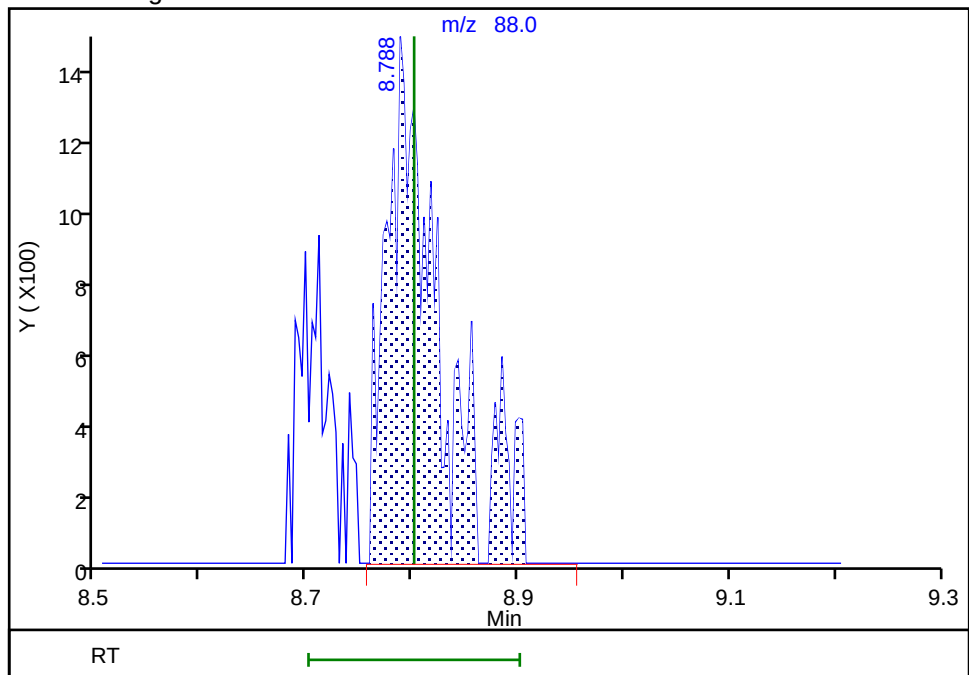
RT: 8.88
Area: 660
Amount: 8.563086
Amount Units: ug/l

Processing Integration Results



RT: 8.79
Area: 5039
Amount: 51.714872
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:17:20 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

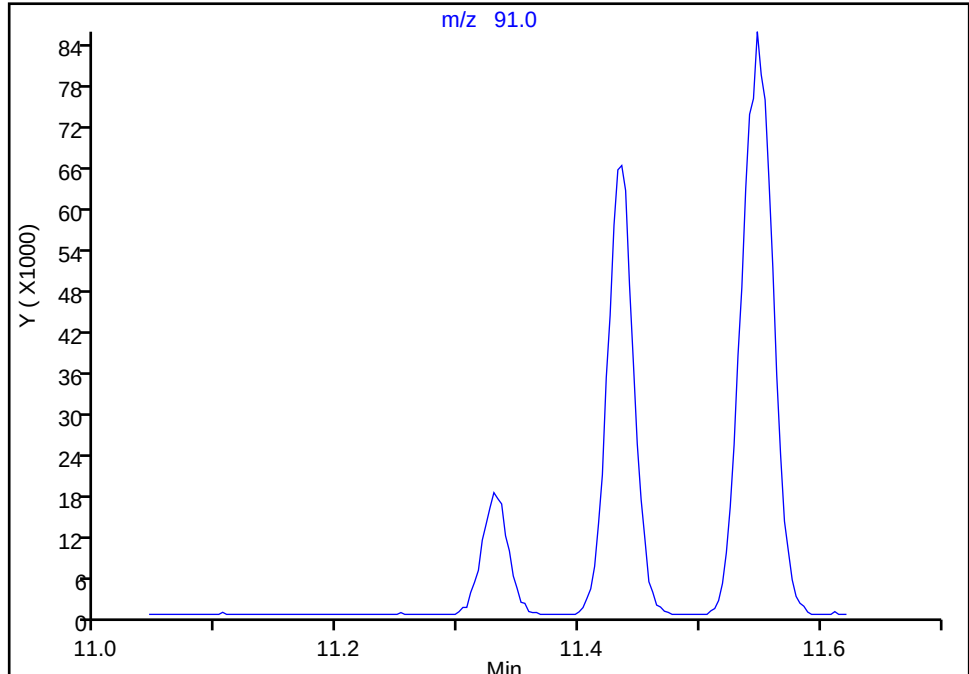
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Injection Date: 30-Sep-2024 22:52:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: MCD07824 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

103 1-Chlorohexane, CAS: 544-10-5

Signal: 1

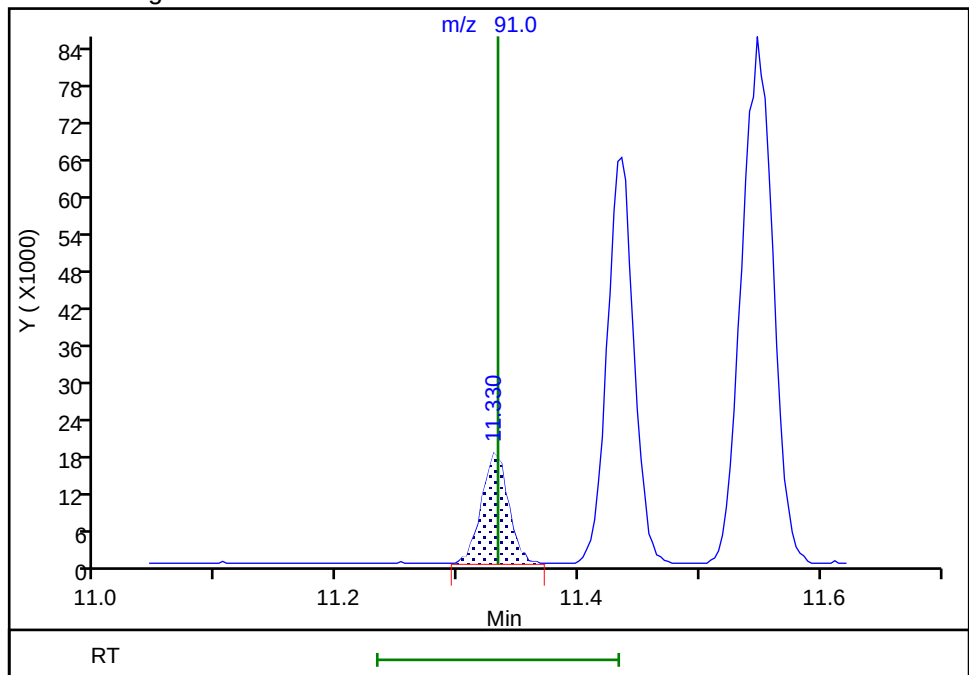
Not Detected
Expected RT: 11.33

Processing Integration Results



RT: 11.33
Area: 27284
Amount: 3.876234
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:17:46 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X13.D
 Lims ID: IC v10
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 30-Sep-2024 23:13:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0126367-014
 Misc. Info.: IC V10
 Operator ID: MCD07824 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub73
 Method: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Oct-2024 09:09:16 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1618

First Level Reviewer: DVW2

Date: 01-Oct-2024 08:15:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.004	2.014	-0.010	99	126241	10.0	10.5	
7 Chloromethane	50	2.203	2.210	-0.007	99	113914	10.0	9.84	
8 Vinyl chloride	62	2.322	2.326	-0.004	98	116935	10.0	10.2	
9 Butadiene	39	2.351	2.351	0.000	92	122330	10.0	10.5	
11 Bromomethane	94	2.688	2.688	0.000	89	81395	10.0	9.96	
12 Chloroethane	64	2.762	2.768	-0.006	100	58871	10.0	10.2	
13 Dichlorofluoromethane	67	3.034	3.038	-0.004	98	173341	10.0	10.0	
14 Trichlorofluoromethane	101	3.099	3.102	-0.003	97	142005	10.0	10.3	
15 Pentane	43	3.134	3.134	0.000	97	100293	10.0	10.3	
17 Ethanol	45	3.208	3.263	-0.055	65	45071	500.0	534.8	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.458	3.445	0.013	90	83890	10.0	10.0	
19 Acrolein	56	3.535	3.532	0.003	98	156978	100.2	91.0	
21 1,1-Dichloroethene	96	3.673	3.686	-0.013	98	63084	10.0	11.3	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.705	3.712	-0.007	90	79266	10.0	11.6	
20 Acetone	58	3.715	3.712	0.003	74	20209	20.0	19.5	
25 Iodomethane	142	3.894	3.888	0.006	98	125675	10.0	11.2	
23 Isopropyl alcohol	45	3.885	3.891	-0.006	46	52024	50.0	49.1	
26 Carbon disulfide	76	4.007	4.010	-0.003	98	218250	10.0	11.3	
28 Methyl acetate	43	4.148	4.148	0.000	96	67710	10.0	9.46	
27 3-Chloro-1-propene	41	4.167	4.171	-0.004	92	89626	10.0	11.1	
30 Methylene Chloride	84	4.392	4.379	0.013	92	69936	10.0	10.9	
* 32 t-Butyl alcohol-d10 (IS)	65	4.389	4.411	-0.022	45	339390	250.0	250.0	
33 2-Methyl-2-propanol	59	4.552	4.556	-0.004	86	89432	50.0	59.5	
34 Acrylonitrile	53	4.732	4.729	0.003	98	101537	25.0	26.9	
35 trans-1,2-Dichloroethene	96	4.787	4.790	-0.003	99	59156	10.0	11.1	
36 Methyl tert-butyl ether	73	4.780	4.793	-0.013	87	213445	10.0	10.8	
37 Hexane	57	5.220	5.223	-0.003	89	77863	10.0	11.6	
38 1,1-Dichloroethane	63	5.464	5.464	0.000	96	100808	10.0	11.1	
40 Isopropyl ether	45	5.515	5.515	0.000	96	188857	10.0	10.7	
41 2-Chloro-1,3-butadiene	53	5.570	5.570	0.000	90	91267	10.0	11.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 Tert-butyl ethyl ether	59	6.057	6.061	-0.004	97	201167	10.0	10.7	
S 80 1,2-Dichloroethene, Total	100				0			22.4	
44 2-Butanone (MEK)	43	6.266	6.272	-0.006	100	98336	20.0	19.4	
43 cis-1,2-Dichloroethene	96	6.295	6.301	-0.006	82	68285	10.0	11.2	
45 2,2-Dichloropropane	77	6.314	6.321	-0.007	86	111864	10.0	11.4	
47 Propionitrile	54	6.372	6.372	0.000	94	91611	50.0	54.2	
48 Methyl acrylate	55	6.391	6.394	-0.003	98	88897	10.0	9.92	
49 Methacrylonitrile	67	6.587	6.584	0.003	89	98585	25.0	26.6	
50 Chlorobromomethane	128	6.628	6.629	-0.001	92	33775	10.0	10.7	
51 Tetrahydrofuran	71	6.651	6.638	0.013	82	78310	50.0	53.1	
52 Chloroform	83	6.782	6.780	0.002	94	98503	10.0	11.0	
\$ 54 Dibromofluoromethane (Surr)	113	6.994	6.994	0.000	93	260285	50.0	50.8	
55 1,1,1-Trichloroethane	97	7.014	7.014	0.000	95	104690	10.0	11.1	
56 Cyclohexane	56	7.107	7.100	0.007	92	127379	10.0	11.3	
58 Carbon tetrachloride	117	7.209	7.213	-0.004	95	86163	10.0	10.9	
57 1,1-Dichloropropene	75	7.212	7.219	-0.007	95	86728	10.0	11.0	
59 Isobutyl alcohol	41	7.389	7.396	-0.007	87	64417	125.0	128.7	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.460	7.460	0.000	69	68561	50.0	51.3	
61 Benzene	78	7.482	7.485	-0.003	94	249581	10.0	11.1	
62 1,2-Dichloroethane	62	7.565	7.562	0.003	98	75882	10.0	10.7	
64 Tert-amyl methyl ether	73	7.675	7.678	-0.003	99	194635	10.0	10.6	
* 65 Fluorobenzene (IS)	96	7.890	7.886	0.004	99	1066744	50.0	50.0	
66 n-Heptane	43	7.899	7.896	0.003	40	67007	10.0	11.2	
67 n-Butanol	56	8.255	8.268	-0.013	83	47770	125.0	128.2	
68 Trichloroethene	95	8.368	8.368	0.000	98	65782	10.0	11.0	
69 Ethyl acrylate	55	8.477	8.480	-0.003	99	90502	10.0	9.74	
70 Methylcyclohexane	83	8.669	8.673	-0.004	93	117677	10.0	11.3	
71 1,2-Dichloropropane	63	8.701	8.702	-0.001	71	62997	10.0	11.0	
72 2-ethoxy-2-methyl butane	87	8.705	8.708	-0.003	92	93842	10.0	10.7	
74 Methyl methacrylate	69	8.788	8.785	0.003	89	58021	10.0	10.6	
75 1,4-Dioxane	88	8.794	8.801	-0.007	34	14715	125.0	138.6	M
73 Dibromomethane	93	8.811	8.811	0.000	96	40791	10.0	10.6	
77 Dichlorobromomethane	83	9.054	9.051	0.003	98	70112	10.0	10.7	
78 2-Nitropropane	41	9.327	9.327	0.000	97	121162	50.0	50.4	
79 2-Chloroethyl vinyl ether	63	9.401	9.401	0.000	89	40951	10.0	10.2	
81 cis-1,3-Dichloropropene	75	9.584	9.584	0.000	96	90713	10.0	10.3	
83 4-Methyl-2-pentanone (MIBK)	43	9.757	9.761	-0.004	95	195055	20.0	20.1	
\$ 84 Toluene-d8 (Surr)	98	9.882	9.886	-0.004	93	1057709	50.0	49.9	
85 Toluene	92	9.963	9.956	0.007	98	155402	10.0	11.0	
S 162 1,3-Dichloropropene, Total	100				0			20.8	
86 trans-1,3-Dichloropropene	75	10.210	10.216	-0.006	92	82450	10.0	10.5	
87 Ethyl methacrylate	69	10.274	10.271	0.003	89	101270	10.0	10.7	
88 1,1,2-Trichloroethane	97	10.415	10.415	0.000	89	56809	10.0	10.6	
90 Tetrachloroethene	166	10.498	10.499	-0.001	98	67278	10.0	11.5	
91 1,3-Dichloropropane	76	10.575	10.576	-0.001	89	93895	10.0	10.7	
94 2-Hexanone	43	10.627	10.627	0.000	97	131400	20.0	19.2	
96 Chlorodibromomethane	129	10.787	10.784	0.003	90	55738	10.0	10.3	
98 Ethylene Dibromide	107	10.900	10.897	0.003	98	61637	10.0	10.7	
S 178 Xylenes, Total	106				0			33.5	
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.326	-0.003	89	802802	50.0	50.0	
103 1-Chlorohexane	91	11.330	11.333	-0.003	96	84471	10.0	11.1	
102 Chlorobenzene	112	11.352	11.349	0.003	97	176291	10.0	11.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 1,1,1,2-Tetrachloroethane	131	11.429	11.432	-0.003	94	64569	10.0	10.8	
105 Ethylbenzene	91	11.435	11.436	-0.001	98	320655	10.0	11.3	
106 m-Xylene & p-Xylene	106	11.548	11.548	0.000	98	249947	20.0	22.4	
107 n-Butyl acrylate	55	11.824	11.824	0.000	97	137719	10.0	10.3	
108 o-Xylene	106	11.878	11.878	0.000	96	130757	10.0	11.2	
109 Styrene	104	11.891	11.891	0.000	93	196140	10.0	11.0	
110 Bromoform	173	12.048	12.049	-0.001	97	43534	10.0	10.4	
111 Isopropylbenzene	105	12.173	12.174	-0.001	95	299366	10.0	11.3	
113 Cyclohexanone	55	12.260	12.260	0.000	91	87206	250.0	244.4	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.318	12.318	0.000	89	403973	50.0	50.7	
116 1,1,2,2-Tetrachloroethane	83	12.421	12.421	0.000	95	110447	10.0	10.5	
115 Bromobenzene	156	12.437	12.437	0.000	95	75799	10.0	10.5	
119 trans-1,4-Dichloro-2-butene	53	12.446	12.446	0.000	88	72427	25.0	26.1	
118 1,2,3-Trichloropropane	110	12.469	12.469	0.000	84	34933	10.0	10.6	
120 N-Propylbenzene	91	12.501	12.501	0.000	99	374909	10.0	11.2	
121 2-Chlorotoluene	126	12.578	12.581	-0.003	98	82848	10.0	11.3	
122 1,3,5-Trimethylbenzene	105	12.636	12.636	0.000	94	268965	10.0	10.9	
123 4-Chlorotoluene	126	12.674	12.671	0.003	97	77545	10.0	11.1	
125 tert-Butylbenzene	134	12.876	12.880	-0.004	92	50116	10.0	10.8	
127 1,2,4-Trimethylbenzene	105	12.921	12.918	0.003	96	280702	10.0	11.0	
128 sec-Butylbenzene	105	13.043	13.043	0.000	93	330925	10.0	11.1	
131 1,3-Dichlorobenzene	146	13.143	13.143	0.000	98	145435	10.0	10.9	
132 4-Isopropyltoluene	119	13.149	13.149	0.000	97	291088	10.0	11.0	
* 133 1,4-Dichlorobenzene-d4	152	13.197	13.197	0.000	95	462443	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.213	13.213	0.000	96	150165	10.0	10.9	
148 1,2,3-Trimethylbenzene	105	13.226	13.226	0.000	98	298365	10.0	10.8	
170 Benzyl chloride	91	13.293	13.294	-0.001	98	212954	10.0	10.4	
171 1,3-Diethylbenzene	119	13.348	13.348	0.000	95	167868	10.0	10.9	
172 p-Diethylbenzene	119	13.419	13.419	0.000	94	178630	10.0	11.1	
173 n-Butylbenzene	92	13.438	13.441	-0.003	97	138735	10.0	11.1	
174 1,2-Dichlorobenzene	146	13.476	13.473	0.003	97	155838	10.0	10.9	
175 o-diethylbenzene	119	13.492	13.493	-0.001	94	142947	10.0	11.0	
176 1,2-Dibromo-3-Chloropropane	75	14.022	14.019	0.003	87	33185	10.0	10.6	
177 1,3,5-Trichlorobenzene	180	14.141	14.141	0.000	97	108834	10.0	10.8	
179 1,2,4-Trichlorobenzene	180	14.567	14.568	-0.001	95	108661	10.0	10.7	
181 2-Ethylhexyl acrylate	55	14.622	14.622	0.000	80	92836	10.0	9.79	
180 Hexachlorobutadiene	225	14.648	14.648	0.000	97	37150	10.0	11.1	
182 Naphthalene	128	14.750	14.750	0.000	97	471458	10.0	10.9	
183 1,2,3-Trichlorobenzene	180	14.895	14.895	0.000	96	113766	10.0	10.8	
184 2-Methylnaphthalene	142	15.543	15.537	0.006	91	219275	10.0	10.5	
S 205 Total Diethylbenzene	1				0			33.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00203	Amount Added: 2.00	Units: uL	
MSV_CCV_CYC_00010	Amount Added: 8.00	Units: uL	
MSV_CCV_VOC#3_00200	Amount Added: 1.60	Units: uL	
MSV_CCV_2CEVE_00195	Amount Added: 2.00	Units: uL	
MSV_CCV_ETOH_00007	Amount Added: 8.00	Units: uL	
MSV_CCV_GASES_00881	Amount Added: 1.00	Units: uL	
MSV_CCV_OH_Sp_00014	Amount Added: 2.00	Units: uL	
MSV_Cent_ISSS_00031	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 01-Oct-2024 09:09:17

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X13.D

Injection Date: 30-Sep-2024 23:13:30

Instrument ID: 9137

Operator ID: MCD07824

Lims ID: IC v10

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

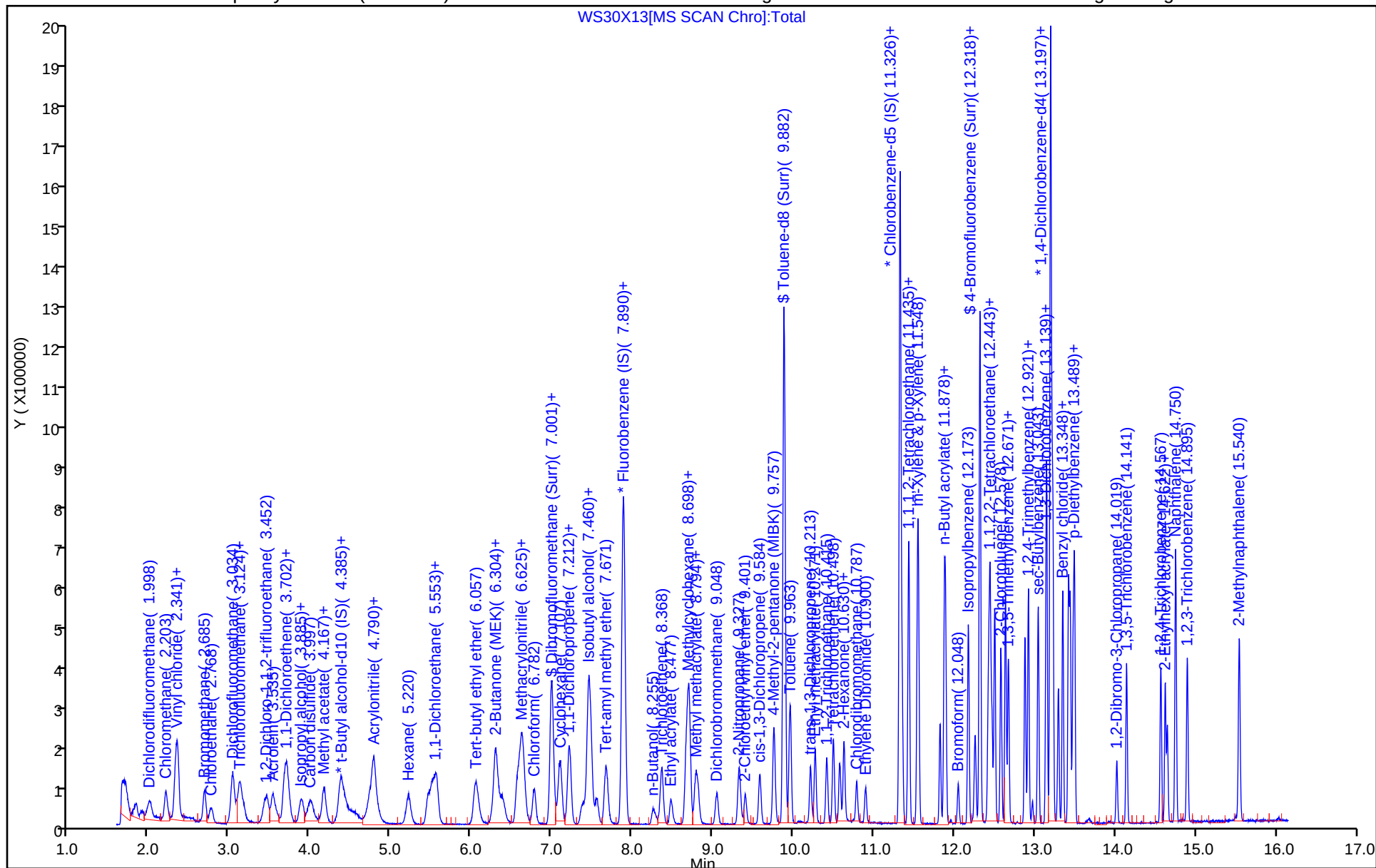
ALS Bottle#: 13

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC

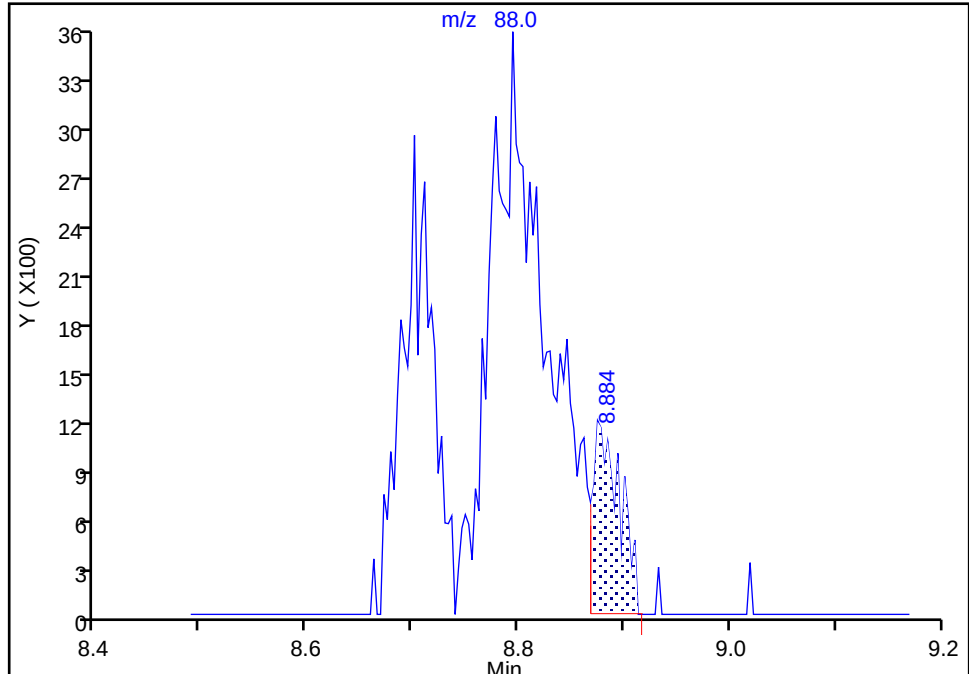
Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X13.D
Injection Date: 30-Sep-2024 23:13:30 Instrument ID: 9137
Lims ID: IC v10
Client ID:
Operator ID: MCD07824 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

75 1,4-Dioxane, CAS: 123-91-1

Signal: 1

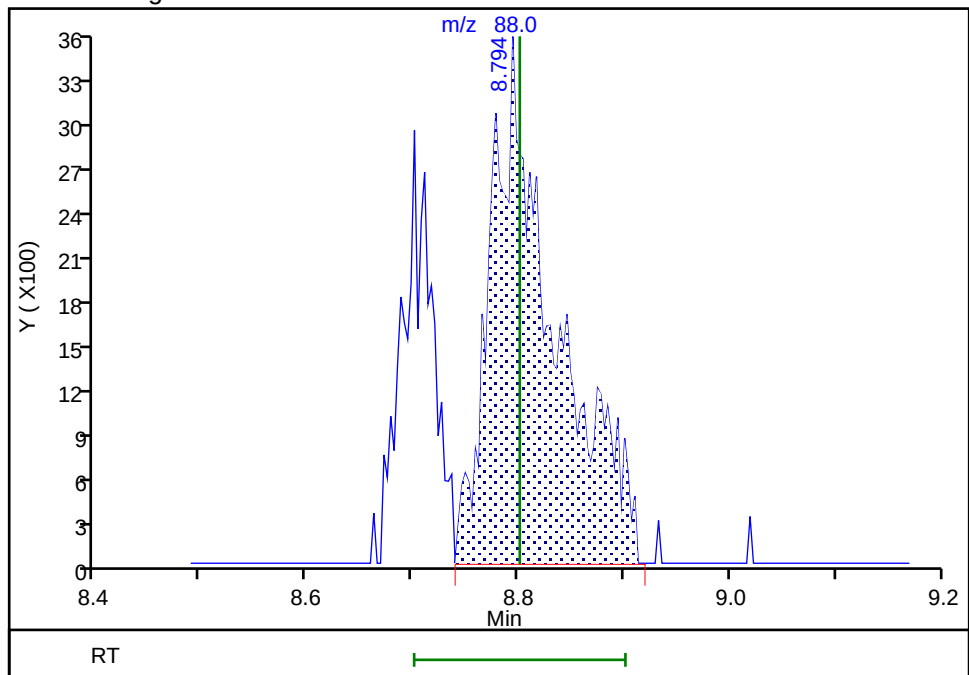
RT: 8.88
Area: 2044
Amount: 29.417772
Amount Units: ug/l

Processing Integration Results



RT: 8.79
Area: 14715
Amount: 138.6300
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:15:21 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X14.D
 Lims ID: IC v20
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 30-Sep-2024 23:35:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0126367-015
 Misc. Info.: IC V20
 Operator ID: MCD07824 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub73
 Method: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Oct-2024 09:09:31 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1618

First Level Reviewer: DVW2

Date: 01-Oct-2024 08:14:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.004	2.014	-0.010	99	244193	20.0	20.3	
7 Chloromethane	50	2.200	2.210	-0.010	100	231020	20.0	20.0	
8 Vinyl chloride	62	2.322	2.326	-0.004	98	233897	20.0	20.5	
9 Butadiene	39	2.348	2.351	-0.003	91	235313	20.0	20.3	
11 Bromomethane	94	2.682	2.688	-0.006	90	168162	20.0	20.6	
12 Chloroethane	64	2.762	2.768	-0.006	99	117820	20.0	20.5	
13 Dichlorofluoromethane	67	3.031	3.038	-0.007	98	353465	20.0	20.5	
14 Trichlorofluoromethane	101	3.102	3.102	0.000	97	283590	20.0	20.6	
15 Pentane	43	3.137	3.134	0.003	97	172064	20.0	17.7	
17 Ethanol	45	3.208	3.263	-0.055	68	86025	1000.0	1060.3	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.452	3.445	0.007	92	167102	20.0	20.0	
19 Acrolein	56	3.535	3.532	0.003	99	327825	200.4	197.4	
21 1,1-Dichloroethene	96	3.680	3.686	-0.006	97	110203	20.0	19.8	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.708	3.712	-0.004	93	129974	20.0	19.0	
20 Acetone	58	3.728	3.712	0.016	83	39936	40.0	40.1	
25 Iodomethane	142	3.891	3.888	0.003	97	223164	20.0	19.9	
23 Isopropyl alcohol	45	3.895	3.891	0.004	42	100468	100.0	98.5	
26 Carbon disulfide	76	4.000	4.010	-0.010	99	375072	20.0	19.4	
28 Methyl acetate	43	4.142	4.148	-0.006	96	127789	20.0	17.9	
27 3-Chloro-1-propene	41	4.171	4.171	-0.001	95	158260	20.0	19.6	
30 Methylene Chloride	84	4.379	4.379	0.000	91	125972	20.0	19.6	
* 32 t-Butyl alcohol-d10 (IS)	65	4.398	4.411	-0.013	39	326761	250.0	250.0	
33 2-Methyl-2-propanol	59	4.540	4.556	-0.016	96	138852	100.0	96.0	
34 Acrylonitrile	53	4.729	4.729	0.000	98	185025	50.0	49.1	
35 trans-1,2-Dichloroethene	96	4.787	4.790	-0.003	98	104169	20.0	19.6	
36 Methyl tert-butyl ether	73	4.796	4.793	0.003	88	390679	20.0	19.9	
37 Hexane	57	5.223	5.223	0.000	92	129999	20.0	19.4	
38 1,1-Dichloroethane	63	5.460	5.464	-0.004	96	180135	20.0	19.9	
40 Isopropyl ether	45	5.512	5.515	-0.003	95	341836	20.0	19.4	
41 2-Chloro-1,3-butadiene	53	5.566	5.570	-0.004	89	157987	20.0	19.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 Tert-butyl ethyl ether	59	6.054	6.061	-0.007	97	367803	20.0	19.7	
S 80 1,2-Dichloroethene, Total	100				0			39.3	
44 2-Butanone (MEK)	43	6.263	6.272	-0.009	100	184425	40.0	36.4	
43 cis-1,2-Dichloroethene	96	6.295	6.301	-0.006	82	118947	20.0	19.6	
45 2,2-Dichloropropane	77	6.320	6.321	-0.001	89	190346	20.0	19.4	
47 Propionitrile	54	6.372	6.372	0.000	83	159836	100.0	98.2	
48 Methyl acrylate	55	6.391	6.394	-0.003	99	176370	20.0	19.7	
49 Methacrylonitrile	67	6.587	6.584	0.003	90	178605	50.0	48.2	
50 Chlorobromomethane	128	6.629	6.629	0.000	93	61619	20.0	19.5	
51 Tetrahydrofuran	71	6.641	6.638	0.003	82	143535	100.0	101.1	
52 Chloroform	83	6.776	6.780	-0.004	94	179713	20.0	20.2	
\$ 54 Dibromofluoromethane (Surr)	113	6.991	6.994	-0.003	93	256027	50.0	50.1	
55 1,1,1-Trichloroethane	97	7.007	7.014	-0.007	97	186755	20.0	19.8	
56 Cyclohexane	56	7.097	7.100	-0.003	88	212304	20.0	18.9	
58 Carbon tetrachloride	117	7.216	7.213	0.003	91	151629	20.0	19.2	
57 1,1-Dichloropropene	75	7.216	7.219	-0.003	96	152659	20.0	19.5	
59 Isobutyl alcohol	41	7.392	7.396	-0.004	94	115447	250.0	239.5	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.450	7.460	-0.010	73	65251	50.0	48.9	
61 Benzene	78	7.489	7.485	0.004	96	443155	20.0	19.7	
62 1,2-Dichloroethane	62	7.556	7.562	-0.006	97	136665	20.0	19.3	
64 Tert-amyl methyl ether	73	7.675	7.678	-0.003	99	358722	20.0	19.5	
* 65 Fluorobenzene (IS)	96	7.886	7.886	0.000	98	1064233	50.0	50.0	
66 n-Heptane	43	7.890	7.896	-0.006	78	110058	20.0	18.4	
67 n-Butanol	56	8.262	8.268	-0.006	88	89073	250.0	248.3	
68 Trichloroethene	95	8.365	8.368	-0.003	97	114827	20.0	19.3	
69 Ethyl acrylate	55	8.477	8.480	-0.003	99	179441	20.0	19.4	
70 Methylcyclohexane	83	8.673	8.673	0.000	89	192677	20.0	18.6	
71 1,2-Dichloropropane	63	8.708	8.702	0.006	68	113266	20.0	19.9	
72 2-ethoxy-2-methyl butane	87	8.705	8.708	-0.003	92	168579	20.0	19.3	
74 Methyl methacrylate	69	8.788	8.785	0.003	89	106423	20.0	19.5	
75 1,4-Dioxane	88	8.788	8.801	-0.013	40	25645	250.0	250.9	
73 Dibromomethane	93	8.811	8.811	0.000	97	76226	20.0	19.8	
77 Dichlorobromomethane	83	9.048	9.051	-0.003	99	128768	20.0	19.6	
78 2-Nitropropane	41	9.324	9.327	-0.003	96	225257	100.0	97.4	a
79 2-Chloroethyl vinyl ether	63	9.404	9.401	0.003	91	80181	20.0	20.0	
81 cis-1,3-Dichloropropene	75	9.584	9.584	0.000	97	168580	20.0	19.3	
83 4-Methyl-2-pentanone (MIBK)	43	9.764	9.761	0.003	96	376731	40.0	38.9	
\$ 84 Toluene-d8 (Surr)	98	9.886	9.886	0.000	93	1055634	50.0	50.2	
85 Toluene	92	9.959	9.956	0.003	98	280084	20.0	20.1	
S 162 1,3-Dichloropropene, Total	100				0			38.9	
86 trans-1,3-Dichloropropene	75	10.213	10.216	-0.003	92	153062	20.0	19.6	
87 Ethyl methacrylate	69	10.271	10.271	0.000	89	186129	20.0	19.9	
88 1,1,2-Trichloroethane	97	10.415	10.415	0.000	90	106443	20.0	20.1	
90 Tetrachloroethene	166	10.498	10.499	-0.001	97	116351	20.0	20.1	
91 1,3-Dichloropropane	76	10.575	10.576	-0.001	90	170065	20.0	19.6	
94 2-Hexanone	43	10.630	10.627	0.003	96	261431	40.0	38.5	
96 Chlorodibromomethane	129	10.787	10.784	0.003	90	105190	20.0	19.6	
98 Ethylene Dibromide	107	10.896	10.897	-0.001	100	113870	20.0	19.9	
S 178 Xylenes, Total	106				0			60.7	
* 101 Chlorobenzene-d5 (IS)	117	11.326	11.326	0.000	85	795660	50.0	50.0	
103 1-Chlorohexane	91	11.333	11.333	0.000	95	147283	20.0	19.5	
102 Chlorobenzene	112	11.349	11.349	0.000	96	314129	20.0	19.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 1,1,1,2-Tetrachloroethane	131	11.429	11.432	-0.003	93	121473	20.0	20.4	
105 Ethylbenzene	91	11.435	11.436	-0.001	98	568033	20.0	20.3	
106 m-Xylene & p-Xylene	106	11.548	11.548	0.000	98	445831	40.0	40.2	
107 n-Butyl acrylate	55	11.821	11.824	-0.003	98	271854	20.0	20.4	
108 o-Xylene	106	11.878	11.878	0.000	96	237351	20.0	20.5	
109 Styrene	104	11.891	11.891	0.000	94	362328	20.0	20.5	
110 Bromoform	173	12.052	12.049	0.003	96	82064	20.0	19.8	
111 Isopropylbenzene	105	12.174	12.174	0.000	95	532286	20.0	20.2	
113 Cyclohexanone	55	12.260	12.260	0.000	91	174668	500.0	508.5	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.318	12.318	0.000	90	400112	50.0	50.7	
116 1,1,2,2-Tetrachloroethane	83	12.424	12.421	0.003	96	204947	20.0	19.9	
115 Bromobenzene	156	12.437	12.437	0.000	97	139723	20.0	19.8	
119 trans-1,4-Dichloro-2-butene	53	12.443	12.446	-0.003	86	135245	50.0	49.6	
118 1,2,3-Trichloropropane	110	12.466	12.469	-0.003	85	66284	20.0	20.6	
120 N-Propylbenzene	91	12.501	12.501	0.000	98	669028	20.0	20.4	
121 2-Chlorotoluene	126	12.581	12.581	0.000	97	145549	20.0	20.3	
122 1,3,5-Trimethylbenzene	105	12.636	12.636	0.000	94	489273	20.0	20.2	
123 4-Chlorotoluene	126	12.671	12.671	0.000	96	140752	20.0	20.5	
125 tert-Butylbenzene	134	12.876	12.880	-0.004	92	90555	20.0	19.8	
127 1,2,4-Trimethylbenzene	105	12.921	12.918	0.003	97	518755	20.0	20.7	
128 sec-Butylbenzene	105	13.043	13.043	0.000	94	584906	20.0	20.0	
131 1,3-Dichlorobenzene	146	13.143	13.143	0.000	98	265570	20.0	20.2	
132 4-Isopropyltoluene	119	13.149	13.149	0.000	97	522782	20.0	20.2	
* 133 1,4-Dichlorobenzene-d4	152	13.197	13.197	0.000	94	453443	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.216	13.213	0.003	95	271695	20.0	20.2	
148 1,2,3-Trimethylbenzene	105	13.223	13.226	-0.003	98	552194	20.0	20.4	
170 Benzyl chloride	91	13.293	13.294	-0.001	98	411643	20.0	20.5	
171 1,3-Diethylbenzene	119	13.348	13.348	0.000	95	307584	20.0	20.4	
172 p-Diethylbenzene	119	13.419	13.419	0.000	94	321104	20.0	20.3	
173 n-Butylbenzene	92	13.441	13.441	0.000	98	246884	20.0	20.2	
174 1,2-Dichlorobenzene	146	13.476	13.473	0.003	98	286694	20.0	20.4	
175 o-diethylbenzene	119	13.496	13.493	0.003	95	258709	20.0	20.2	
176 1,2-Dibromo-3-Chloropropane	75	14.019	14.019	0.000	87	60083	20.0	19.5	
177 1,3,5-Trichlorobenzene	180	14.141	14.141	0.000	98	204171	20.0	20.7	
179 1,2,4-Trichlorobenzene	180	14.564	14.568	-0.004	94	205643	20.0	20.6	
181 2-Ethylhexyl acrylate	55	14.622	14.622	0.000	81	193099	20.0	20.8	
180 Hexachlorobutadiene	225	14.648	14.648	0.000	97	63391	20.0	19.3	
182 Naphthalene	128	14.750	14.750	0.000	97	886191	20.0	20.8	
183 1,2,3-Trichlorobenzene	180	14.895	14.895	0.000	96	214692	20.0	20.7	
184 2-Methylnaphthalene	142	15.540	15.537	0.003	93	427257	20.0	20.9	
S 205 Total Diethylbenzene	1				0			61.0	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MSV_CCV_VOC#1_00203	Amount Added: 4.00	Units: uL	
MSV_CCV_CYC_00010	Amount Added: 16.00	Units: uL	
MSV_CCV_VOC#3_00200	Amount Added: 3.20	Units: uL	
MSV_CCV_2CEVE_00195	Amount Added: 4.00	Units: uL	
MSV_CCV_ETOH_00007	Amount Added: 16.00	Units: uL	
MSV_CCV_GASES_00881	Amount Added: 2.00	Units: uL	
MSV_CCV_OH_Sp_00014	Amount Added: 4.00	Units: uL	
MSV_Cent_ISSS_00031	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 01-Oct-2024 09:09:31

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X14.D

Injection Date: 30-Sep-2024 23:35:30

Instrument ID: 9137

Operator ID: MCD07824

Lims ID: IC v20

Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

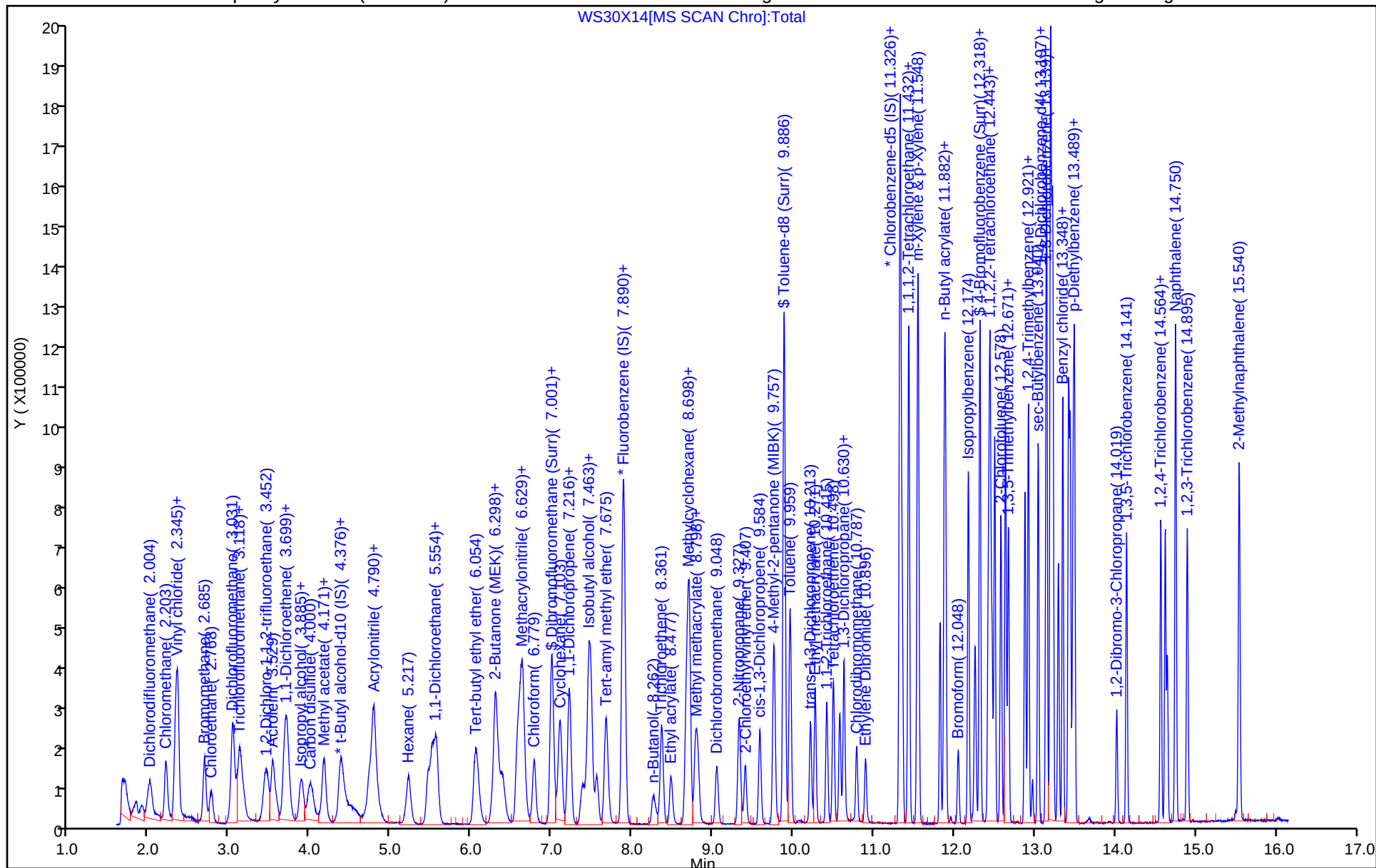
ALS Bottle#: 14

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC

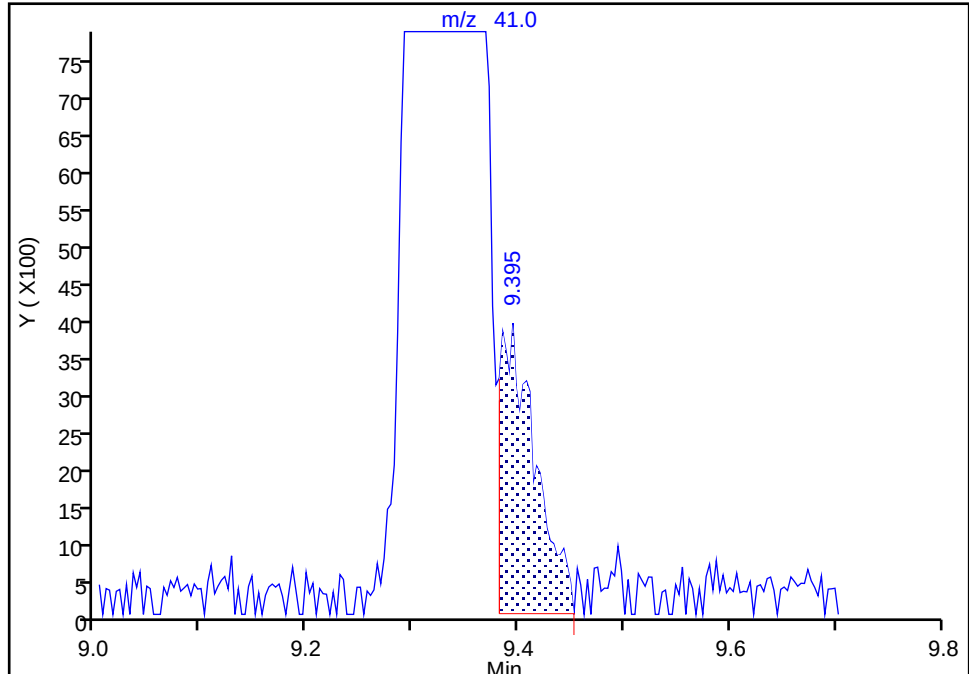
Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.bWS30X14.D
Injection Date: 30-Sep-2024 23:35:30 Instrument ID: 9137
Lims ID: IC v20
Client ID:
Operator ID: MCD07824 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

78 2-Nitropropane, CAS: 79-46-9

Signal: 1

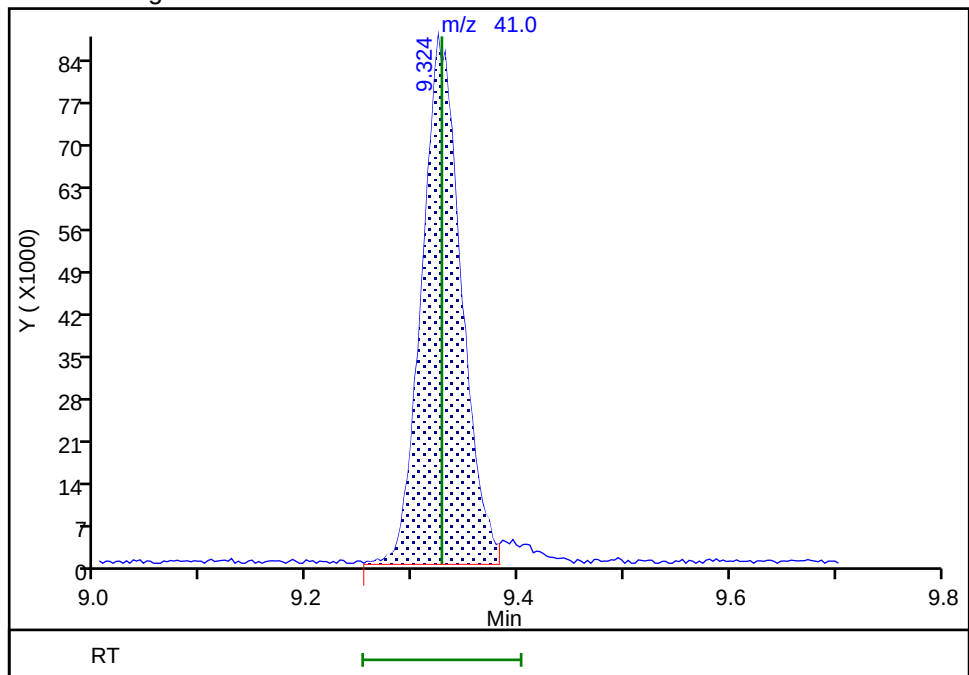
RT: 9.39
Area: 9017
Amount: 4.498440
Amount Units: ug/l

Processing Integration Results



RT: 9.32
Area: 225257
Amount: 97.371079
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:27:06 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X15.D
 Lims ID: ICIS v50
 Client ID:
 Sample Type: ICIS Calib Level: 5
 Inject. Date: 30-Sep-2024 23:57:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0126367-016
 Misc. Info.: ICIS V50
 Operator ID: MCD07824 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub73
 Method: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Oct-2024 09:09:44 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1618

First Level Reviewer: DVW2

Date: 01-Oct-2024 08:11:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.014	2.014	0.000	100	631663	50.0	54.5	
7 Chloromethane	50	2.210	2.210	0.000	99	562489	50.0	50.5	
8 Vinyl chloride	62	2.326	2.326	0.000	99	583066	50.0	52.8	
9 Butadiene	39	2.351	2.351	0.000	91	602098	50.0	53.7	
11 Bromomethane	94	2.688	2.688	0.000	89	395486	50.0	50.3	
12 Chloroethane	64	2.768	2.768	0.000	100	287114	50.0	51.9	
13 Dichlorofluoromethane	67	3.038	3.038	0.000	98	858850	50.0	51.6	
14 Trichlorofluoromethane	101	3.102	3.102	0.000	99	715831	50.0	53.8	
15 Pentane	43	3.134	3.134	0.000	99	513440	50.0	54.7	
17 Ethanol	45	3.263	3.263	0.000	94	107553	1250.0	1305.9	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.445	3.445	0.000	93	424446	50.0	52.6	
19 Acrolein	56	3.532	3.532	0.000	100	908029	501.1	538.6	
21 1,1-Dichloroethene	96	3.686	3.686	0.000	98	300766	50.0	56.1	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.712	3.712	0.000	93	392257	50.0	59.5	
20 Acetone	58	3.712	3.712	0.000	87	112579	100.0	111.3	
25 Iodomethane	142	3.888	3.888	0.000	97	602414	50.0	55.6	
23 Isopropyl alcohol	45	3.891	3.891	0.000	36	216098	250.0	208.6	
26 Carbon disulfide	76	4.010	4.010	0.000	99	1052311	50.0	56.3	
28 Methyl acetate	43	4.148	4.148	0.000	97	319591	50.0	46.4	
27 3-Chloro-1-propene	41	4.171	4.171	0.000	93	412294	50.0	52.8	
30 Methylene Chloride	84	4.379	4.379	0.000	92	329895	50.0	53.3	
* 32 t-Butyl alcohol-d10 (IS)	65	4.418	4.418	0.000	54	331685	250.0	250.0	M
33 2-Methyl-2-propanol	59	4.556	4.556	0.000	99	357369	250.0	243.5	
34 Acrylonitrile	53	4.729	4.729	0.000	100	461493	125.0	126.8	
35 trans-1,2-Dichloroethene	96	4.790	4.790	0.000	100	279840	50.0	54.7	
36 Methyl tert-butyl ether	73	4.793	4.793	0.000	96	982792	50.0	51.8	
37 Hexane	57	5.223	5.223	0.000	91	386643	50.0	59.6	
38 1,1-Dichloroethane	63	5.464	5.464	0.000	96	478304	50.0	54.9	
40 Isopropyl ether	45	5.515	5.515	0.000	98	896028	50.0	52.7	
41 2-Chloro-1,3-butadiene	53	5.570	5.570	0.000	90	432569	50.0	54.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 Tert-butyl ethyl ether	59	6.061	6.061	0.000	97	950862	50.0	52.6	
44 2-Butanone (MEK)	43	6.272	6.272	0.000	98	485120	100.0	99.2	
43 cis-1,2-Dichloroethene	96	6.301	6.301	0.000	82	314959	50.0	53.8	
45 2,2-Dichloropropane	77	6.321	6.321	0.000	86	521021	50.0	54.9	
47 Propionitrile	54	6.372	6.372	0.000	98	430222	250.0	260.4	
48 Methyl acrylate	55	6.394	6.394	0.000	99	450638	50.0	52.2	
49 Methacrylonitrile	67	6.584	6.584	0.000	91	461032	125.0	129.0	
50 Chlorobromomethane	128	6.629	6.629	0.000	92	158304	50.0	51.9	
51 Tetrahydrofuran	71	6.638	6.638	0.000	87	376066	250.0	260.9	
52 Chloroform	83	6.780	6.780	0.000	94	467281	50.0	54.4	
\$ 54 Dibromofluoromethane (Surr)	113	6.994	6.994	0.000	93	246198	50.0	49.9	
55 1,1,1-Trichloroethane	97	7.014	7.014	0.000	98	511785	50.0	56.1	
56 Cyclohexane	56	7.100	7.100	0.000	89	626166	50.0	57.7	
58 Carbon tetrachloride	117	7.213	7.213	0.000	96	439100	50.0	57.7	
57 1,1-Dichloropropene	75	7.219	7.219	0.000	96	423183	50.0	55.9	
59 Isobutyl alcohol	41	7.396	7.396	0.000	97	290478	625.0	593.6	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.460	7.460	0.000	69	63729	50.0	49.5	
61 Benzene	78	7.485	7.485	0.000	96	1170854	50.0	54.0	
62 1,2-Dichloroethane	62	7.562	7.562	0.000	97	357436	50.0	52.2	
64 Tert-amyl methyl ether	73	7.678	7.678	0.000	99	941751	50.0	53.1	
* 65 Fluorobenzene (IS)	96	7.893	7.893	0.000	98	1027456	50.0	50.0	
66 n-Heptane	43	7.896	7.896	0.000	86	324671	50.0	56.2	
67 n-Butanol	56	8.268	8.268	0.000	89	236256	625.0	648.7	
68 Trichloroethene	95	8.368	8.368	0.000	98	313360	50.0	54.4	
69 Ethyl acrylate	55	8.480	8.480	0.000	99	460511	50.0	51.5	
70 Methylcyclohexane	83	8.673	8.673	0.000	90	588915	50.0	58.8	
71 1,2-Dichloropropane	63	8.702	8.702	0.000	71	298526	50.0	54.3	
72 2-ethoxy-2-methyl butane	87	8.708	8.708	0.000	93	453463	50.0	53.7	
74 Methyl methacrylate	69	8.785	8.785	0.000	91	271635	50.0	51.7	
75 1,4-Dioxane	88	8.801	8.801	0.000	69	66023	625.0	636.5	
73 Dibromomethane	93	8.811	8.811	0.000	97	201450	50.0	54.3	
77 Dichlorobromomethane	83	9.051	9.051	0.000	100	344935	50.0	54.5	
78 2-Nitropropane	41	9.327	9.327	0.000	97	623712	250.0	265.6	
79 2-Chloroethyl vinyl ether	63	9.401	9.401	0.000	92	208384	50.0	53.7	
81 cis-1,3-Dichloropropene	75	9.584	9.584	0.000	97	454848	50.0	53.9	
83 4-Methyl-2-pentanone (MIBK)	43	9.761	9.761	0.000	96	1004649	100.0	107.4	
\$ 84 Toluene-d8 (Surr)	98	9.886	9.886	0.000	93	1029795	50.0	49.7	
85 Toluene	92	9.956	9.956	0.000	98	745106	50.0	54.2	a
86 trans-1,3-Dichloropropene	75	10.216	10.216	0.000	92	408566	50.0	53.0	
87 Ethyl methacrylate	69	10.271	10.271	0.000	89	494123	50.0	53.5	
88 1,1,2-Trichloroethane	97	10.415	10.415	0.000	91	272842	50.0	52.3	
90 Tetrachloroethene	166	10.499	10.499	0.000	97	319313	50.0	56.0	
91 1,3-Dichloropropane	76	10.576	10.576	0.000	90	449913	50.0	52.5	
94 2-Hexanone	43	10.627	10.627	0.000	96	680130	100.0	101.7	
96 Chlorodibromomethane	129	10.784	10.784	0.000	89	291011	50.0	54.9	
98 Ethylene Dibromide	107	10.897	10.897	0.000	99	296908	50.0	52.6	
* 101 Chlorobenzene-d5 (IS)	117	11.327	11.327	0.000	84	784435	50.0	50.0	
103 1-Chlorohexane	91	11.333	11.333	0.000	96	409587	50.0	55.1	
102 Chlorobenzene	112	11.349	11.349	0.000	96	854128	50.0	54.9	
104 1,1,1,2-Tetrachloroethane	131	11.432	11.432	0.000	96	328233	50.0	56.0	
105 Ethylbenzene	91	11.436	11.436	0.000	98	1524986	50.0	55.2	
106 m-Xylene & p-Xylene	106	11.548	11.548	0.000	98	1212604	100.0	111.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 n-Butyl acrylate	55	11.824	11.824	0.000	98	684286	50.0	52.2	
108 o-Xylene	106	11.878	11.878	0.000	96	634165	50.0	55.5	
109 Styrene	104	11.891	11.891	0.000	94	955508	50.0	54.7	
110 Bromoform	173	12.049	12.049	0.000	97	227330	50.0	55.6	
111 Isopropylbenzene	105	12.174	12.174	0.000	95	1469615	50.0	56.6	
113 Cyclohexanone	55	12.260	12.260	0.000	91	224855	625.0	644.8	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.318	12.318	0.000	90	384224	50.0	49.3	
116 1,1,2,2-Tetrachloroethane	83	12.421	12.421	0.000	95	532444	50.0	53.5	
115 Bromobenzene	156	12.437	12.437	0.000	96	372621	50.0	54.8	
119 trans-1,4-Dichloro-2-butene	53	12.446	12.446	0.000	87	357093	125.0	135.9	
118 1,2,3-Trichloropropane	110	12.469	12.469	0.000	85	165960	50.0	53.5	
120 N-Propylbenzene	91	12.501	12.501	0.000	98	1807071	50.0	57.2	
121 2-Chlorotoluene	126	12.581	12.581	0.000	97	383026	50.0	55.2	
122 1,3,5-Trimethylbenzene	105	12.636	12.636	0.000	94	1351601	50.0	57.8	
123 4-Chlorotoluene	126	12.671	12.671	0.000	97	371921	50.0	56.3	
125 tert-Butylbenzene	134	12.880	12.880	0.000	92	255538	50.0	58.0	
127 1,2,4-Trimethylbenzene	105	12.918	12.918	0.000	97	1391606	50.0	57.4	a
128 sec-Butylbenzene	105	13.043	13.043	0.000	94	1654457	50.0	58.5	
131 1,3-Dichlorobenzene	146	13.143	13.143	0.000	98	703470	50.0	55.5	
132 4-Isopropyltoluene	119	13.149	13.149	0.000	97	1464846	50.0	58.7	
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.194	0.000	95	437516	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.213	13.213	0.000	95	713643	50.0	54.9	
148 1,2,3-Trimethylbenzene	105	13.226	13.226	0.000	98	1470812	50.0	56.4	
170 Benzyl chloride	91	13.294	13.294	0.000	98	1083073	50.0	55.8	
171 1,3-Diethylbenzene	119	13.348	13.348	0.000	95	842062	50.0	58.0	
172 p-Diethylbenzene	119	13.419	13.419	0.000	95	886382	50.0	58.2	
173 n-Butylbenzene	92	13.441	13.441	0.000	97	691864	50.0	58.7	
174 1,2-Dichlorobenzene	146	13.473	13.473	0.000	98	746109	50.0	55.1	
175 o-diethylbenzene	119	13.493	13.493	0.000	94	712566	50.0	57.7	
176 1,2-Dibromo-3-Chloropropane	75	14.019	14.019	0.000	88	159791	50.0	53.9	
177 1,3,5-Trichlorobenzene	180	14.141	14.141	0.000	98	538079	50.0	56.6	
179 1,2,4-Trichlorobenzene	180	14.568	14.568	0.000	95	535424	50.0	55.5	
181 2-Ethylhexyl acrylate	55	14.622	14.622	0.000	80	513944	50.0	57.3	
180 Hexachlorobutadiene	225	14.648	14.648	0.000	98	184404	50.0	58.1	
182 Naphthalene	128	14.750	14.750	0.000	97	2290063	50.0	55.8	
183 1,2,3-Trichlorobenzene	180	14.895	14.895	0.000	96	557108	50.0	55.7	
184 2-Methylnaphthalene	142	15.537	15.537	0.000	92	1134637	50.0	57.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_VOC#1_00203	Amount Added: 5.00	Units: uL	
MSV_CCV_CYC_00010	Amount Added: 10.00	Units: uL	
MSV_CCV_VOC#3_00200	Amount Added: 4.00	Units: uL	
MSV_CCV_2CEVE_00195	Amount Added: 5.00	Units: uL	
MSV_CCV_ETOH_00007	Amount Added: 10.00	Units: uL	
MSV_CCV_GASES_00881	Amount Added: 2.50	Units: uL	
MSV_CCV_OH_Sp_00014	Amount Added: 5.00	Units: uL	
MSV_Cent_ISSS_00031	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 01-Oct-2024 09:09:44

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X15.D

Injection Date: 30-Sep-2024 23:57:30

Instrument ID: 9137

Operator ID: MCD07824

Lims ID: ICIS v50

Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

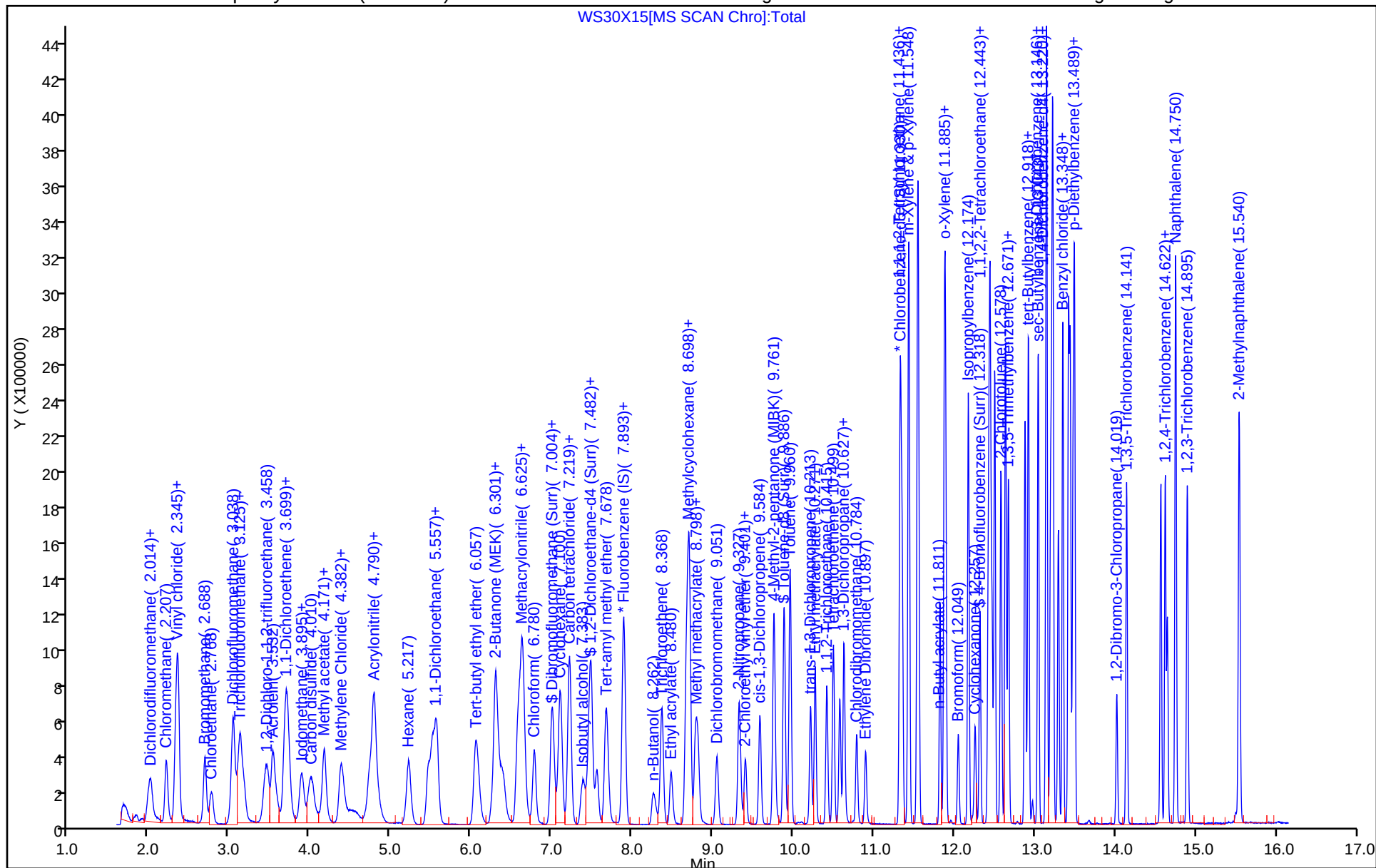
ALS Bottle#: 15

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC

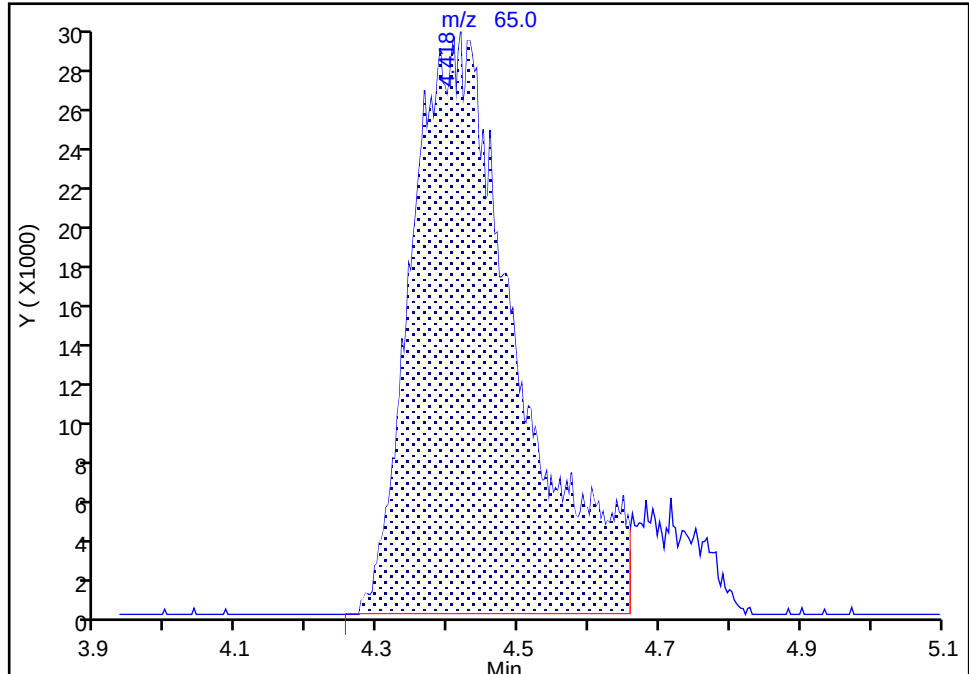
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Injection Date: 30-Sep-2024 23:57:30 Instrument ID: 9137
Lims ID: ICIS v50
Client ID:
Operator ID: MCD07824 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 32 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

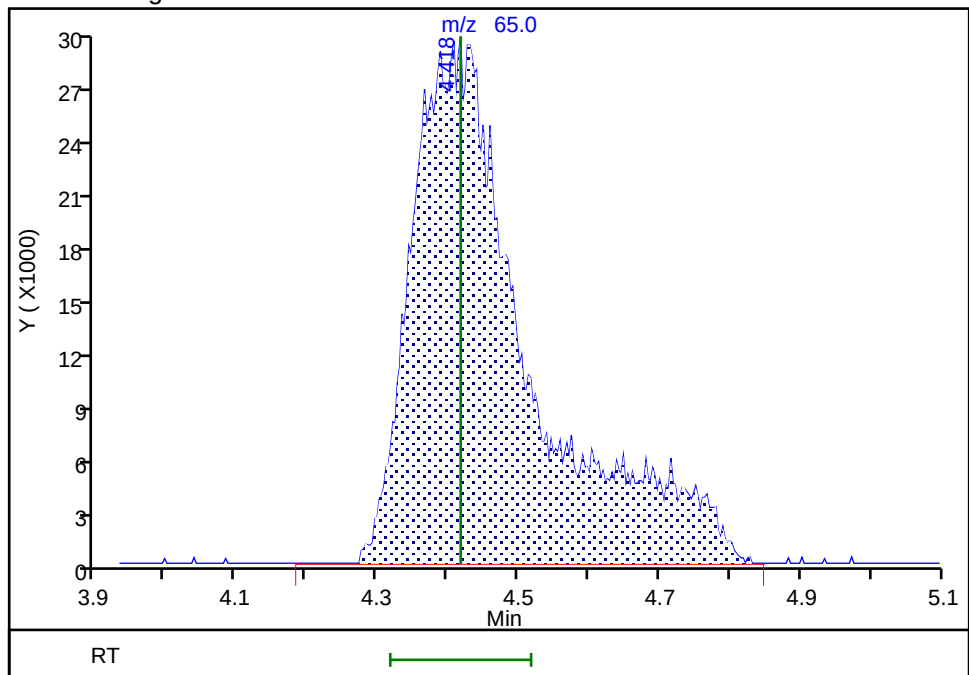
RT: 4.42
Area: 299166
Amount: 250.0000
Amount Units: ug/l

Processing Integration Results



RT: 4.42
Area: 331685
Amount: 250.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:10:31 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

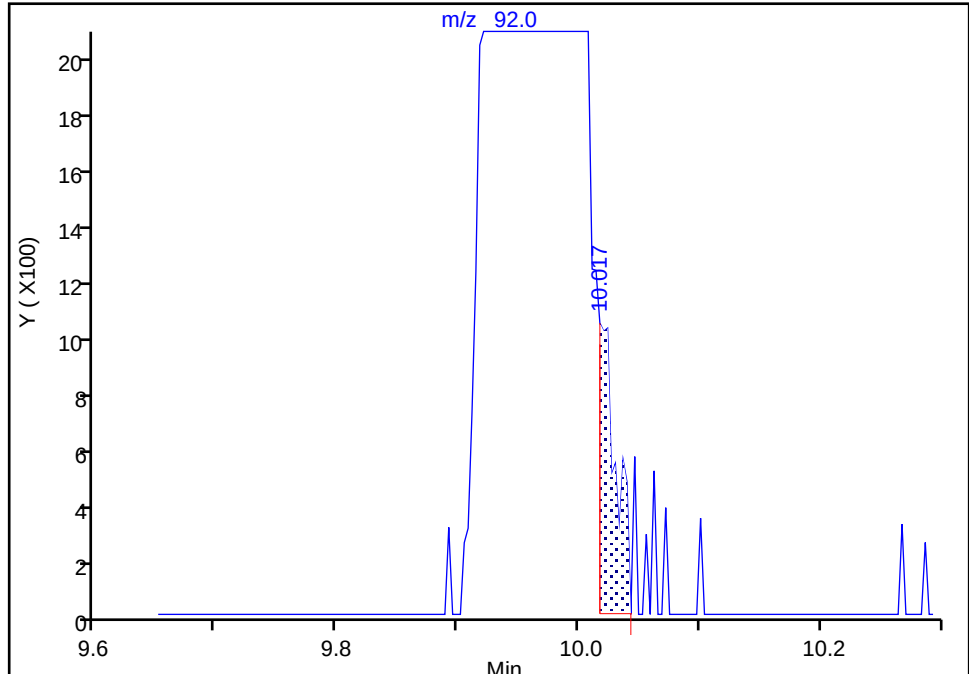
Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.bWS30X15.D
Injection Date: 30-Sep-2024 23:57:30 Instrument ID: 9137
Lims ID: ICIS v50
Client ID:
Operator ID: MCD07824 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

85 Toluene, CAS: 108-88-3

Signal: 1

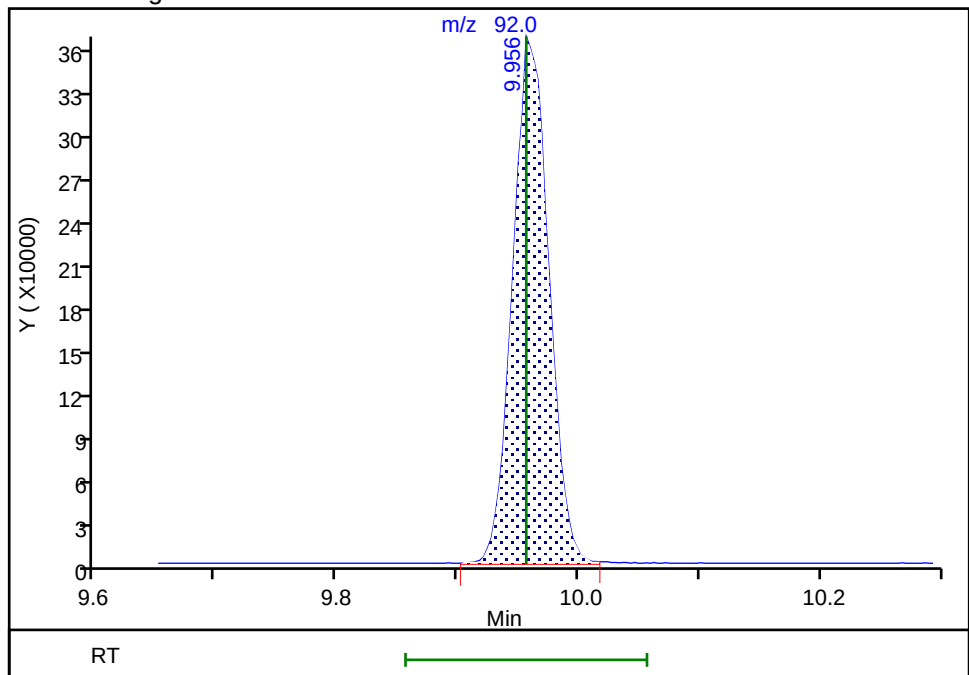
RT: 10.02
Area: 1026
Amount: 0.088238
Amount Units: ug/l

Processing Integration Results



RT: 9.96
Area: 745106
Amount: 54.175568
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:10:52 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

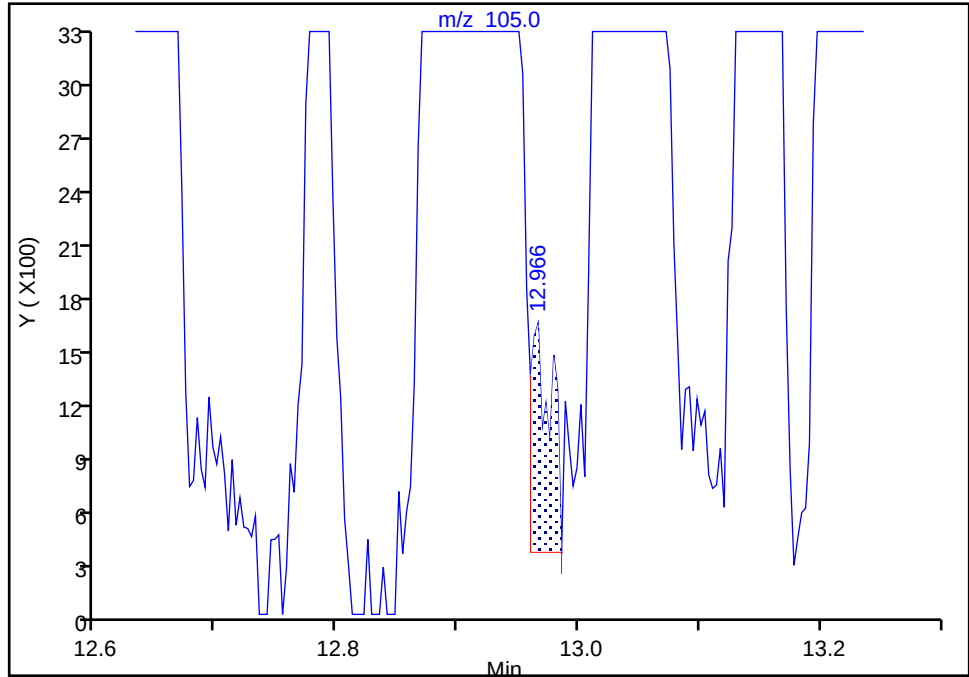
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Injection Date: 30-Sep-2024 23:57:30 Instrument ID: 9137
Lims ID: ICIS v50
Client ID:
Operator ID: MCD07824 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

127 1,2,4-Trimethylbenzene, CAS: 95-63-6

Signal: 1

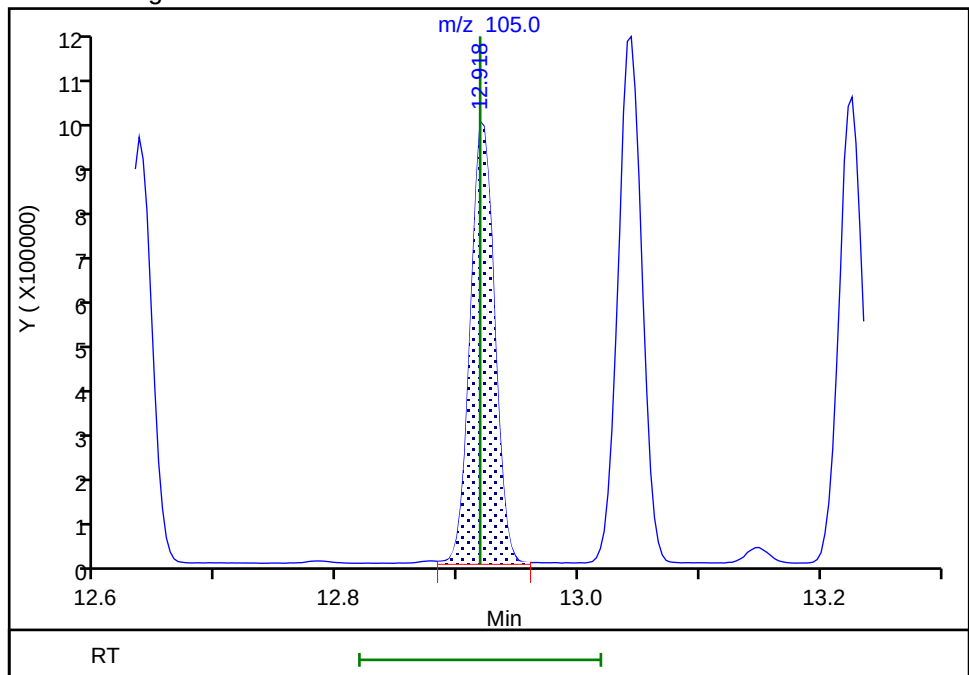
RT: 12.97
Area: 1457
Amount: 0.071895
Amount Units: ug/l

Processing Integration Results



RT: 12.92
Area: 1391606
Amount: 57.415161
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Oct-2024 08:11:09 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X16.D
 Lims ID: IC v100
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 01-Oct-2024 00:19:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0126367-017
 Misc. Info.: IC V100
 Operator ID: MCD07824 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub73
 Method: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Oct-2024 09:10:00 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1618

First Level Reviewer: DVW2

Date: 01-Oct-2024 08:12:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.008	2.014	-0.006	100	1215566	100.0	101.1	
7 Chloromethane	50	2.207	2.210	-0.003	99	1091227	100.0	94.4	
8 Vinyl chloride	62	2.329	2.326	0.003	98	1121083	100.0	97.9	
9 Butadiene	39	2.348	2.351	-0.003	90	1116534	100.0	96.1	
11 Bromomethane	94	2.685	2.688	-0.003	90	788498	100.0	96.6	
12 Chloroethane	64	2.771	2.768	0.003	100	557286	100.0	97.0	
13 Dichlorofluoromethane	67	3.034	3.038	-0.004	98	1689772	100.0	98.0	
14 Trichlorofluoromethane	101	3.102	3.102	0.000	99	1378198	100.0	100.0	
15 Pentane	43	3.134	3.134	0.000	97	944815	100.0	97.0	
17 Ethanol	45	3.208	3.263	-0.055	31	221490	2499.9	2502.0	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.452	3.445	0.007	93	804766	100.0	96.2	
19 Acrolein	56	3.529	3.532	-0.003	100	1837909	1002.1	1014.3	
21 1,1-Dichloroethene	96	3.683	3.686	-0.003	99	556071	100.0	99.9	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.712	3.712	0.000	93	722309	100.0	105.7	
20 Acetone	58	3.715	3.712	0.003	87	216846	200.0	199.5	
25 Iodomethane	142	3.894	3.888	0.006	97	1123749	100.0	100.0	
23 Isopropyl alcohol	45	3.882	3.891	-0.009	38	514901	500.0	462.5	
26 Carbon disulfide	76	4.000	4.010	-0.010	99	1965619	100.0	101.4	
28 Methyl acetate	43	4.145	4.148	-0.003	99	642933	100.0	89.9	
27 3-Chloro-1-propene	41	4.177	4.171	0.006	93	781807	100.0	96.5	
30 Methylene Chloride	84	4.379	4.379	0.000	92	615161	100.0	95.8	
* 32 t-Butyl alcohol-d10 (IS)	65	4.430	4.418	0.012	61	356519	250.0	250.0	
33 2-Methyl-2-propanol	59	4.568	4.556	0.012	98	715990	500.0	453.8	
34 Acrylonitrile	53	4.729	4.729	0.000	99	921930	250.0	244.3	
35 trans-1,2-Dichloroethene	96	4.793	4.790	0.003	99	521986	100.0	98.3	
36 Methyl tert-butyl ether	73	4.787	4.793	-0.006	89	1923316	100.0	97.7	
37 Hexane	57	5.213	5.223	-0.010	92	720430	100.0	107.1	
38 1,1-Dichloroethane	63	5.457	5.464	-0.007	97	893090	100.0	98.8	
40 Isopropyl ether	45	5.518	5.515	0.003	97	1736327	100.0	98.4	
41 2-Chloro-1,3-butadiene	53	5.566	5.570	-0.004	90	816717	100.0	99.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 Tert-butyl ethyl ether	59	6.064	6.061	0.003	97	1852385	100.0	98.8	
S 80 1,2-Dichloroethene, Total	100				0			196.0	
44 2-Butanone (MEK)	43	6.282	6.272	0.010	100	957170	200.0	188.7	
43 cis-1,2-Dichloroethene	96	6.295	6.301	-0.006	82	593010	100.0	97.7	
45 2,2-Dichloropropane	77	6.317	6.321	-0.004	89	1001457	100.0	101.8	
47 Propionitrile	54	6.372	6.372	0.000	97	864732	500.0	487.0	
48 Methyl acrylate	55	6.394	6.394	0.000	100	881834	100.0	98.5	
49 Methacrylonitrile	67	6.584	6.584	0.000	92	903339	250.0	243.7	
50 Chlorobromomethane	128	6.628	6.629	-0.001	92	309141	100.0	97.8	
51 Tetrahydrofuran	71	6.641	6.638	0.003	89	738753	500.0	476.8	
52 Chloroform	83	6.779	6.780	-0.001	94	884208	100.0	99.2	
\$ 54 Dibromofluoromethane (Surr)	113	6.994	6.994	0.000	93	251245	50.0	49.1	
55 1,1,1-Trichloroethane	97	7.007	7.014	-0.007	98	977492	100.0	103.3	
56 Cyclohexane	56	7.103	7.100	0.003	90	1191765	100.0	105.9	
58 Carbon tetrachloride	117	7.216	7.213	0.003	90	845720	100.0	107.1	
57 1,1-Dichloropropene	75	7.219	7.219	0.000	96	794634	100.0	101.2	
59 Isobutyl alcohol	41	7.395	7.396	-0.001	97	622404	1250.0	1183.4	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.450	7.460	-0.010	69	66229	50.0	49.6	
61 Benzene	78	7.485	7.485	0.000	96	2224835	100.0	98.9	
62 1,2-Dichloroethane	62	7.556	7.562	-0.006	98	684833	100.0	96.4	
64 Tert-amyl methyl ether	73	7.675	7.678	-0.003	99	1839802	100.0	100.1	
* 65 Fluorobenzene (IS)	96	7.890	7.893	-0.003	99	1065567	50.0	50.0	
66 n-Heptane	43	7.896	7.896	0.000	90	630202	100.0	105.1	
67 n-Butanol	56	8.255	8.268	-0.013	86	509359	1250.0	1301.2	
68 Trichloroethene	95	8.368	8.368	0.000	98	597517	100.0	100.1	
69 Ethyl acrylate	55	8.483	8.480	0.003	99	918002	100.0	98.9	
70 Methylcyclohexane	83	8.673	8.673	0.000	96	1149551	100.0	110.7	
71 1,2-Dichloropropane	63	8.705	8.702	0.003	77	576677	100.0	101.2	
72 2-ethoxy-2-methyl butane	87	8.708	8.708	0.000	93	895864	100.0	102.3	
74 Methyl methacrylate	69	8.782	8.785	-0.003	91	543827	100.0	99.7	
75 1,4-Dioxane	88	8.798	8.801	-0.003	40	132568	1250.0	1188.9	
73 Dibromomethane	93	8.814	8.811	0.003	97	386770	100.0	100.5	
77 Dichlorobromomethane	83	9.051	9.051	0.000	100	685812	100.0	104.5	
78 2-Nitropropane	41	9.330	9.327	0.003	96	1241818	500.0	492.0	
79 2-Chloroethyl vinyl ether	63	9.404	9.401	0.003	92	416555	100.0	103.6	
81 cis-1,3-Dichloropropene	75	9.584	9.584	0.000	97	899920	100.0	102.8	
83 4-Methyl-2-pentanone (MIBK)	43	9.757	9.761	-0.004	96	1940441	200.0	200.0	
\$ 84 Toluene-d8 (Surr)	98	9.886	9.886	0.000	93	1085197	50.0	50.2	
85 Toluene	92	9.963	9.956	0.007	98	1440511	100.0	100.4	
S 162 1,3-Dichloropropene, Total	100				0			205.1	
86 trans-1,3-Dichloropropene	75	10.213	10.216	-0.003	97	822448	100.0	102.3	
87 Ethyl methacrylate	69	10.271	10.271	0.000	89	959382	100.0	99.6	
88 1,1,2-Trichloroethane	97	10.415	10.415	0.000	90	533449	100.0	98.1	
90 Tetrachloroethene	166	10.498	10.499	-0.001	97	613991	100.0	103.3	
91 1,3-Dichloropropane	76	10.579	10.576	0.003	89	886682	100.0	99.2	
94 2-Hexanone	43	10.630	10.627	0.003	95	1323974	200.0	189.7	
96 Chlorodibromomethane	129	10.787	10.784	0.003	89	590601	100.0	106.9	
98 Ethylene Dibromide	107	10.900	10.897	0.003	98	590317	100.0	100.3	
S 178 Xylenes, Total	106				0			308.3	
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.327	-0.004	84	818111	50.0	50.0	
103 1-Chlorohexane	91	11.333	11.333	0.000	97	794876	100.0	102.5	
102 Chlorobenzene	112	11.352	11.349	0.003	96	1637827	100.0	101.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 1,1,1,2-Tetrachloroethane	131	11.432	11.432	0.000	97	647972	100.0	106.0	
105 Ethylbenzene	91	11.435	11.436	-0.001	98	2938056	100.0	101.9	
106 m-Xylene & p-Xylene	106	11.548	11.548	0.000	98	2344626	200.0	205.7	
107 n-Butyl acrylate	55	11.820	11.824	-0.004	98	1365568	100.0	99.8	
108 o-Xylene	106	11.878	11.878	0.000	96	1221332	100.0	102.5	
109 Styrene	104	11.891	11.891	0.000	94	1869239	100.0	102.7	
110 Bromoform	173	12.048	12.049	-0.001	97	466701	100.0	109.4	
111 Isopropylbenzene	105	12.173	12.174	-0.001	95	2860914	100.0	105.6	
113 Cyclohexanone	55	12.260	12.260	0.000	91	466038	1250.0	1243.4	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.318	12.318	0.000	90	401370	50.0	49.4	
116 1,1,2,2-Tetrachloroethane	83	12.421	12.421	0.000	95	1067201	100.0	101.2	
115 Bromobenzene	156	12.437	12.437	0.000	97	723503	100.0	100.5	
119 trans-1,4-Dichloro-2-butene	53	12.446	12.446	0.000	89	717389	250.0	257.8	
118 1,2,3-Trichloropropane	110	12.465	12.469	-0.004	85	326285	100.0	99.3	
120 N-Propylbenzene	91	12.504	12.501	0.003	98	3503534	100.0	104.8	
121 2-Chlorotoluene	126	12.581	12.581	0.000	98	757249	100.0	103.2	
122 1,3,5-Trimethylbenzene	105	12.636	12.636	0.000	95	2637790	100.0	106.5	
123 4-Chlorotoluene	126	12.671	12.671	0.000	97	724903	100.0	103.5	
125 tert-Butylbenzene	134	12.879	12.880	-0.001	92	518910	100.0	111.3	
127 1,2,4-Trimethylbenzene	105	12.921	12.918	0.003	97	2718328	100.0	105.9	
128 sec-Butylbenzene	105	13.043	13.043	0.000	94	3288624	100.0	109.9	
131 1,3-Dichlorobenzene	146	13.143	13.143	0.000	98	1378548	100.0	102.7	
132 4-Isopropyltoluene	119	13.149	13.149	0.000	97	2900268	100.0	109.7	
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.194	0.000	94	463275	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.216	13.213	0.003	95	1386400	100.0	100.8	
148 1,2,3-Trimethylbenzene	105	13.226	13.226	0.000	98	2904467	100.0	105.2	
170 Benzyl chloride	91	13.293	13.294	-0.001	98	2199137	100.0	107.0	
171 1,3-Diethylbenzene	119	13.348	13.348	0.000	95	1663119	100.0	108.2	
172 p-Diethylbenzene	119	13.419	13.419	0.000	94	1743446	100.0	108.0	
173 n-Butylbenzene	92	13.441	13.441	0.000	97	1367294	100.0	109.6	
174 1,2-Dichlorobenzene	146	13.476	13.473	0.003	98	1473177	100.0	102.8	
175 o-diethylbenzene	119	13.492	13.493	-0.001	94	1425142	100.0	109.1	
176 1,2-Dibromo-3-Chloropropane	75	14.019	14.019	0.000	88	330071	100.0	105.1	
177 1,3,5-Trichlorobenzene	180	14.141	14.141	0.000	98	1072941	100.0	106.6	
179 1,2,4-Trichlorobenzene	180	14.567	14.568	-0.001	94	1067878	100.0	104.5	
181 2-Ethylhexyl acrylate	55	14.619	14.622	-0.003	79	1035318	100.0	109.0	
180 Hexachlorobutadiene	225	14.648	14.648	0.000	97	373296	100.0	111.1	
182 Naphthalene	128	14.750	14.750	0.000	97	4486888	100.0	103.2	
183 1,2,3-Trichlorobenzene	180	14.895	14.895	0.000	96	1105252	100.0	104.4	
184 2-Methylnaphthalene	142	15.540	15.537	0.003	94	2297642	100.0	109.9	
S 205 Total Diethylbenzene	1				0			325.3	

QC Flag Legend

Processing Flags

Reagents:

MSV_CCV_VOC#1_00203	Amount Added: 5.00	Units: uL	
MSV_CCV_CYC_00010	Amount Added: 10.00	Units: uL	
MSV_CCV_VOC#3_00200	Amount Added: 4.00	Units: uL	
MSV_CCV_2CEVE_00195	Amount Added: 5.00	Units: uL	
MSV_CCV_ETOH_00007	Amount Added: 10.00	Units: uL	
MSV_CCV_GASES_00881	Amount Added: 2.50	Units: uL	
MSV_CCV_OH_Sp_00014	Amount Added: 5.00	Units: uL	
MSV_Cent_ISSS_00031	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 01-Oct-2024 09:10:01

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X16.D

Injection Date: 01-Oct-2024 00:19:30

Instrument ID: 9137

Operator ID: MCD07824

Lims ID: IC v100

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

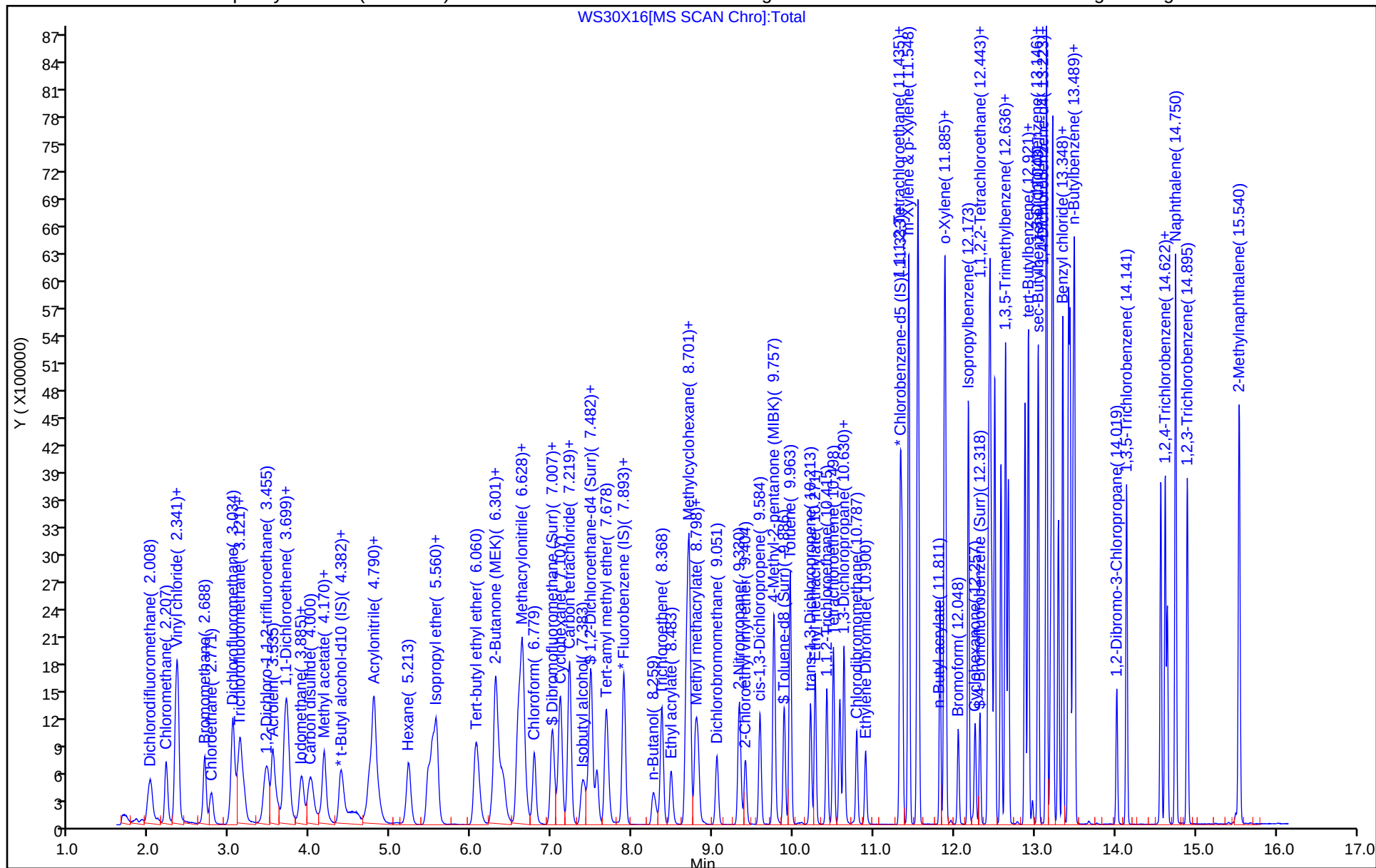
ALS Bottle#: 16

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Lims ID: IC v300
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 01-Oct-2024 00:40:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0126367-018
 Misc. Info.: IC V300
 Operator ID: MCD07824 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub73
 Method: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Oct-2024 09:10:14 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1618

First Level Reviewer: DVW2

Date: 01-Oct-2024 08:13:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.008	2.014	-0.006	100	3522573	300.0	285.7	
7 Chloromethane	50	2.210	2.210	0.000	99	3139822	300.0	264.7	
8 Vinyl chloride	62	2.329	2.326	0.003	98	3247567	300.0	276.5	
9 Butadiene	39	2.351	2.351	0.000	90	3280146	300.0	275.2	
11 Bromomethane	94	2.685	2.688	-0.003	91	2272915	300.0	271.5	
12 Chloroethane	64	2.771	2.768	0.003	100	1618220	300.0	274.7	
13 Dichlorofluoromethane	67	3.041	3.038	0.003	98	4854327	300.0	274.3	
14 Trichlorofluoromethane	101	3.102	3.102	0.000	99	4073951	300.0	288.0	
15 Pentane	43	3.153	3.134	0.019	97	2948689	300.0	295.1	
17 Ethanol	45	3.198	3.263	-0.065	30	618576	7499.7	6719.3	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.458	3.445	0.013	92	2378469	300.0	277.2	
19 Acrolein	56	3.532	3.532	0.000	100	6173901	3006.4	3276.4	
21 1,1-Dichloroethene	96	3.692	3.686	0.006	98	1699230	300.0	297.7	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.715	3.712	0.003	93	2144426	300.0	305.9	
20 Acetone	58	3.718	3.712	0.006	87	671324	600.0	594.0	
25 Iodomethane	142	3.898	3.888	0.010	97	3367910	300.0	292.1	
23 Isopropyl alcohol	45	3.888	3.891	-0.003	99	1441057	1500.0	1244.7	
26 Carbon disulfide	76	4.013	4.010	0.003	99	6020548	300.0	302.8	
28 Methyl acetate	43	4.145	4.148	-0.003	97	1860715	300.0	253.7	
27 3-Chloro-1-propene	41	4.177	4.171	0.006	93	2310838	300.0	278.0	
30 Methylene Chloride	84	4.389	4.379	0.010	97	1857157	300.0	281.7	
* 32 t-Butyl alcohol-d10 (IS)	65	4.386	4.418	-0.032	62	370754	250.0	250.0	
33 2-Methyl-2-propanol	59	4.540	4.556	-0.016	98	2456120	1500.0	1497.0	
34 Acrylonitrile	53	4.729	4.729	0.000	100	2674629	750.0	690.9	
35 trans-1,2-Dichloroethene	96	4.790	4.790	0.000	99	1523172	300.0	279.6	
36 Methyl tert-butyl ether	73	4.783	4.793	-0.010	96	5537585	300.0	274.2	
37 Hexane	57	5.220	5.223	-0.003	91	2053991	300.0	297.7	
38 1,1-Dichloroethane	63	5.467	5.464	0.003	97	2601096	300.0	280.4	
40 Isopropyl ether	45	5.525	5.515	0.010	96	5110059	300.0	282.3	
41 2-Chloro-1,3-butadiene	53	5.566	5.570	-0.004	89	2340952	300.0	279.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 Tert-butyl ethyl ether	59	6.064	6.061	0.003	99	5478466	300.0	284.9	
S 80 1,2-Dichloroethene, Total	100				0			556.3	
44 2-Butanone (MEK)	43	6.276	6.272	0.004	99	2973408	600.0	571.3	
43 cis-1,2-Dichloroethene	96	6.301	6.301	0.000	82	1722918	300.0	276.7	
45 2,2-Dichloropropane	77	6.321	6.321	0.000	85	2982941	300.0	295.6	
47 Propionitrile	54	6.375	6.372	0.003	96	2581349	1500.0	1398.0	
48 Methyl acrylate	55	6.404	6.394	0.010	100	2626394	300.0	285.9	
49 Methacrylonitrile	67	6.590	6.584	0.006	92	2673121	750.0	702.8	
50 Chlorobromomethane	128	6.629	6.629	0.000	92	890615	300.0	274.5	
51 Tetrahydrofuran	71	6.645	6.638	0.007	89	2182361	1500.0	1354.4	
52 Chloroform	83	6.779	6.780	-0.001	94	2536121	300.0	277.2	
\$ 54 Dibromofluoromethane (Surr)	113	6.991	6.994	-0.003	93	256323	50.0	48.8	
55 1,1,1-Trichloroethane	97	7.017	7.014	0.003	98	2918030	300.0	300.6	
56 Cyclohexane	56	7.107	7.100	0.007	92	3556712	300.0	308.1	
58 Carbon tetrachloride	117	7.216	7.213	0.003	98	2568259	300.0	316.9	
57 1,1-Dichloropropene	75	7.222	7.219	0.003	98	2303777	300.0	285.9	
59 Isobutyl alcohol	41	7.383	7.396	-0.013	97	1788436	3750.0	3269.8	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.453	7.460	-0.007	68	68364	50.0	49.9	
61 Benzene	78	7.485	7.485	0.000	96	6407225	300.0	277.7	
62 1,2-Dichloroethane	62	7.559	7.562	-0.003	98	2008681	300.0	275.7	
64 Tert-amyl methyl ether	73	7.681	7.678	0.003	99	5518693	300.0	292.7	
* 65 Fluorobenzene (IS)	96	7.890	7.893	-0.003	98	1093292	50.0	50.0	
66 n-Heptane	43	7.899	7.896	0.003	90	1796185	300.0	292.0	
67 n-Butanol	56	8.265	8.268	-0.003	87	1451583	3750.0	3565.7	
68 Trichloroethene	95	8.368	8.368	0.000	98	1755481	300.0	286.6	
69 Ethyl acrylate	55	8.487	8.480	0.007	99	2818261	299.9	295.9	
70 Methylcyclohexane	83	8.676	8.673	0.003	96	3438038	300.0	322.8	
71 1,2-Dichloropropane	63	8.708	8.702	0.006	85	1718769	300.0	294.0	
72 2-ethoxy-2-methyl butane	87	8.708	8.708	0.000	92	2857356	300.0	318.0	
74 Methyl methacrylate	69	8.788	8.785	0.003	91	1655738	300.0	295.9	
75 1,4-Dioxane	88	8.788	8.801	-0.013	33	384151	3750.0	3312.9	
73 Dibromomethane	93	8.817	8.811	0.006	97	1161301	300.0	294.1	
77 Dichlorobromomethane	83	9.051	9.051	0.000	100	2085747	300.0	309.8	
78 2-Nitropropane	41	9.327	9.327	0.000	97	3787251	1500.0	1442.8	
79 2-Chloroethyl vinyl ether	63	9.408	9.401	0.007	93	1307473	300.0	316.9	
81 cis-1,3-Dichloropropene	75	9.590	9.584	0.006	97	2814866	300.0	313.3	
83 4-Methyl-2-pentanone (MIBK)	43	9.760	9.761	-0.001	95	5801515	600.0	582.8	
\$ 84 Toluene-d8 (Surr)	98	9.886	9.886	0.000	93	1159258	50.0	49.2	
85 Toluene	92	9.963	9.956	0.007	99	4337072	300.0	277.2	
S 162 1,3-Dichloropropene, Total	100				0			607.9	
86 trans-1,3-Dichloropropene	75	10.216	10.216	0.000	92	2583759	300.0	294.6	
87 Ethyl methacrylate	69	10.271	10.271	0.000	89	2860002	300.0	272.2	
88 1,1,2-Trichloroethane	97	10.418	10.415	0.003	90	1619718	300.0	272.9	
90 Tetrachloroethene	166	10.499	10.499	0.000	97	1865855	300.0	287.8	
91 1,3-Dichloropropane	76	10.582	10.576	0.006	89	2726047	300.0	279.5	
94 2-Hexanone	43	10.630	10.627	0.003	95	4028380	600.0	529.2	
96 Chlorodibromomethane	129	10.787	10.784	0.003	90	1886831	300.0	313.0	
98 Ethylene Dibromide	107	10.900	10.897	0.003	98	1813069	300.0	282.5	
S 178 Xylenes, Total	106				0			833.7	
* 101 Chlorobenzene-d5 (IS)	117	11.326	11.327	-0.001	83	892453	50.0	50.0	
103 1-Chlorohexane	91	11.333	11.333	0.000	96	2343693	300.0	277.1	
102 Chlorobenzene	112	11.352	11.349	0.003	96	4990695	300.0	282.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 1,1,1,2-Tetrachloroethane	131	11.432	11.432	0.000	97	1956719	300.0	293.4	
105 Ethylbenzene	91	11.436	11.436	0.000	97	8558117	300.0	272.2	
106 m-Xylene & p-Xylene	106	11.548	11.548	0.000	97	6903101	600.0	555.3	
107 n-Butyl acrylate	55	11.824	11.824	0.000	98	3969813	300.0	265.9	
108 o-Xylene	106	11.878	11.878	0.000	95	3618857	300.0	278.4	
109 Styrene	104	11.891	11.891	0.000	93	5558937	300.0	279.9	
110 Bromoform	173	12.048	12.049	-0.001	97	1459378	300.0	313.7	
111 Isopropylbenzene	105	12.174	12.174	0.000	96	8131962	300.0	275.1	
113 Cyclohexanone	55	12.257	12.260	-0.003	91	1438500	3749.9	3690.6	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.318	12.318	0.000	90	425534	50.0	48.0	
116 1,1,2,2-Tetrachloroethane	83	12.424	12.421	0.003	95	3088601	300.0	278.0	
115 Bromobenzene	156	12.437	12.437	0.000	97	2179824	300.0	287.3	
119 trans-1,4-Dichloro-2-butene	53	12.446	12.446	0.000	89	2166819	750.0	739.2	
118 1,2,3-Trichloropropane	110	12.469	12.469	0.000	85	950110	300.0	274.5	
120 N-Propylbenzene	91	12.504	12.501	0.003	98	9684362	300.0	275.0	
121 2-Chlorotoluene	126	12.581	12.581	0.000	97	2231903	300.0	288.7	
122 1,3,5-Trimethylbenzene	105	12.639	12.636	0.003	95	7673349	300.0	294.1	
123 4-Chlorotoluene	126	12.674	12.671	0.003	96	2164998	300.0	293.6	
125 tert-Butylbenzene	134	12.880	12.880	0.000	93	1575883	300.0	321.0	
127 1,2,4-Trimethylbenzene	105	12.921	12.918	0.003	97	7773955	300.0	287.6	
128 sec-Butylbenzene	105	13.043	13.043	0.000	94	9259856	300.0	293.7	
131 1,3-Dichlorobenzene	146	13.143	13.143	0.000	97	4010251	300.0	283.6	
132 4-Isopropyltoluene	119	13.149	13.149	0.000	96	8224615	300.0	295.3	
* 133 1,4-Dichlorobenzene-d4	152	13.197	13.194	0.003	94	487950	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.216	13.213	0.003	94	4094751	300.0	282.6	
148 1,2,3-Trimethylbenzene	105	13.226	13.226	0.000	98	8390256	300.0	288.4	
170 Benzyl chloride	91	13.293	13.294	-0.001	98	6346218	300.0	293.1	
171 1,3-Diethylbenzene	119	13.348	13.348	0.000	95	4788548	300.0	295.7	
172 p-Diethylbenzene	119	13.419	13.419	0.000	94	4954742	300.0	291.5	
173 n-Butylbenzene	92	13.441	13.441	0.000	97	3866426	300.0	294.3	
174 1,2-Dichlorobenzene	146	13.476	13.473	0.003	98	4217709	300.0	279.5	
175 o-diethylbenzene	119	13.492	13.493	-0.001	94	4188985	300.0	304.4	
176 1,2-Dibromo-3-Chloropropane	75	14.019	14.019	0.000	89	973704	300.0	294.2	
177 1,3,5-Trichlorobenzene	180	14.141	14.141	0.000	98	3061215	300.0	288.9	
179 1,2,4-Trichlorobenzene	180	14.567	14.568	-0.001	95	3028990	300.0	281.4	
181 2-Ethylhexyl acrylate	55	14.619	14.622	-0.003	79	2905401	300.0	290.4	
180 Hexachlorobutadiene	225	14.648	14.648	0.000	98	1072980	300.0	303.3	
182 Naphthalene	128	14.750	14.750	0.000	98	11786376	300.0	257.5	
183 1,2,3-Trichlorobenzene	180	14.895	14.895	0.000	96	3107647	300.0	278.7	
184 2-Methylnaphthalene	142	15.540	15.537	0.003	93	6200248	300.0	281.6	
S 205 Total Diethylbenzene	1				0			891.6	

QC Flag Legend

Processing Flags

Reagents:

MSV_CCV_VOC#1_00203	Amount Added: 15.00	Units: uL	
MSV_CCV_2CEVE_00195	Amount Added: 15.00	Units: uL	
MSV_CCV_VOC#3_00200	Amount Added: 12.00	Units: uL	
MSV_CCV_ETOH_00007	Amount Added: 30.00	Units: uL	
MSV_CCV_CYC_00010	Amount Added: 30.00	Units: uL	
MSV_CCV_GASES_00881	Amount Added: 7.50	Units: uL	
MSV_CCV_OH_Sp_00014	Amount Added: 15.00	Units: uL	
MSV_Cent_ISSS_00031	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 01-Oct-2024 09:10:14

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D

Injection Date: 01-Oct-2024 00:40:30

Instrument ID: 9137

Operator ID: MCD07824

Lims ID: IC v300

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

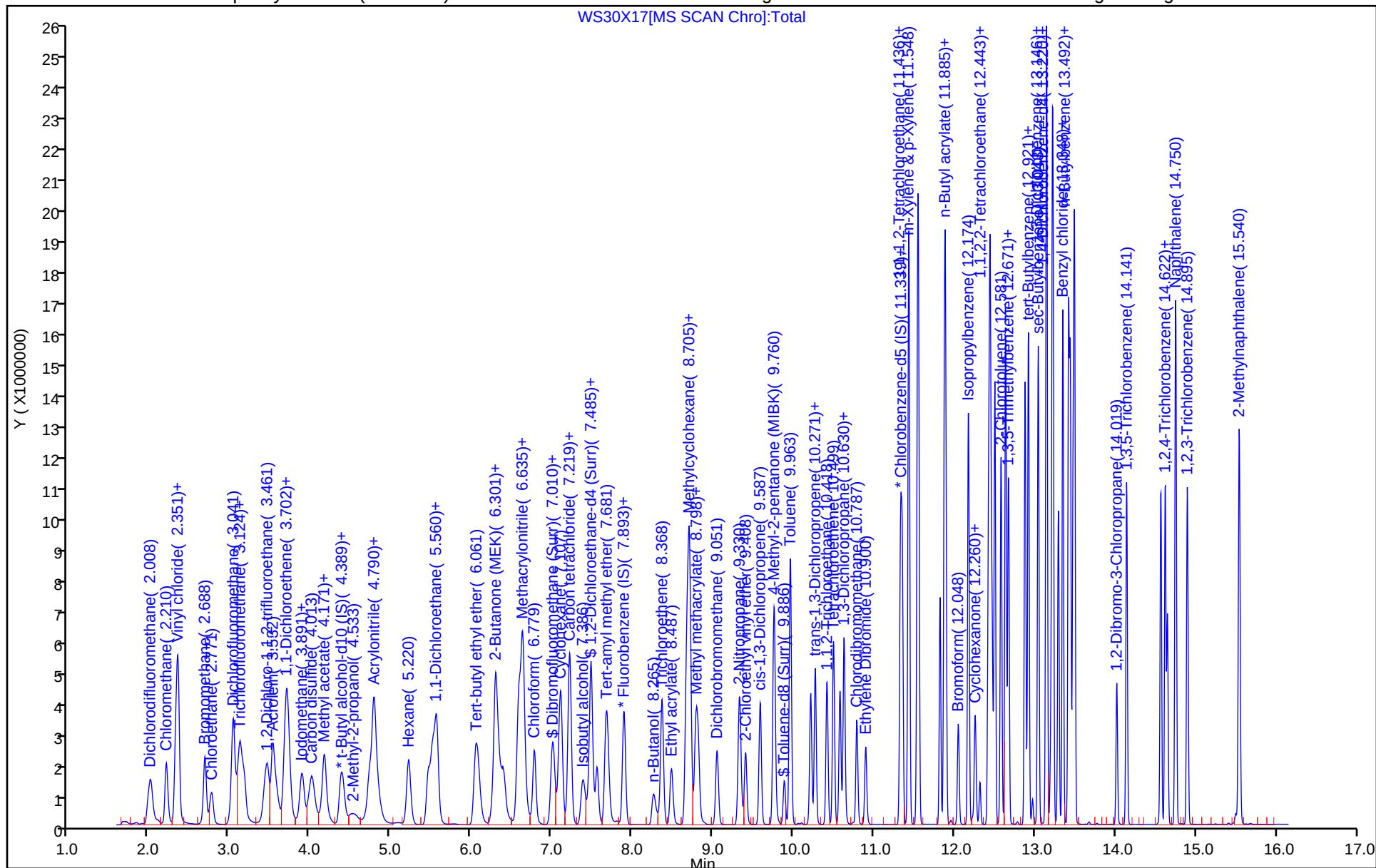
ALS Bottle#: 17

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Calibration

/ Dichlorodifluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

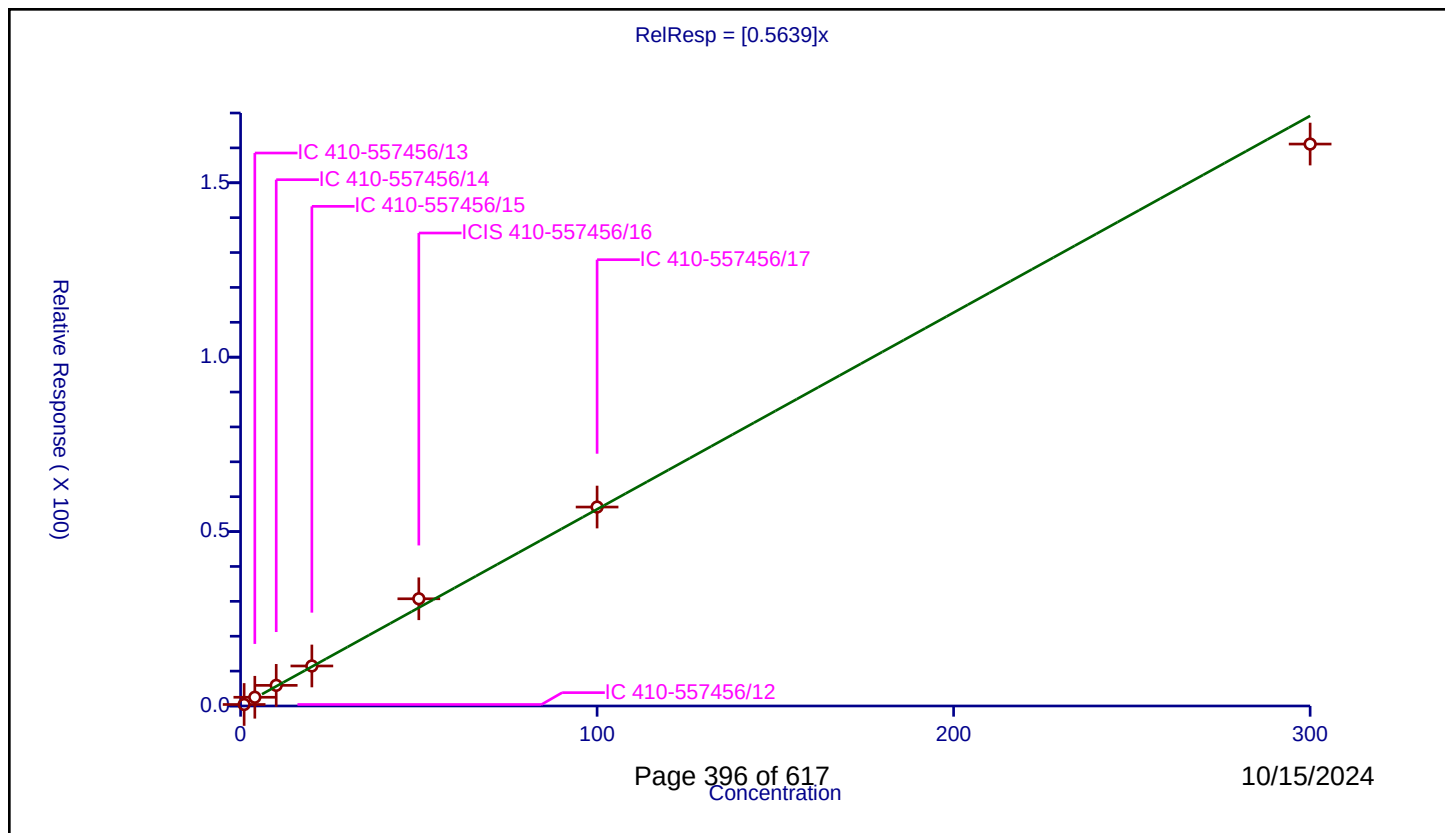
Curve Coefficients

Intercept: 0
Slope: 0.5639

Error Coefficients

Relative Standard Deviation: 11.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.434489	50.0	1022466.0	0.434489	Y
2	IC 410-557456/13	4.0	2.501602	50.0	998700.0	0.625401	Y
3	IC 410-557456/14	10.0	5.917118	50.0	1066744.0	0.591712	Y
4	IC 410-557456/15	20.0	11.472723	50.0	1064233.0	0.573636	Y
5	ICIS 410-557456/16	50.0	30.739175	50.0	1027456.0	0.614784	Y
6	IC 410-557456/17	100.0	57.038459	50.0	1065567.0	0.570385	Y
7	IC 410-557456/18	300.0	161.099368	50.0	1093292.0	0.536998	Y



Calibration

/ Chloromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

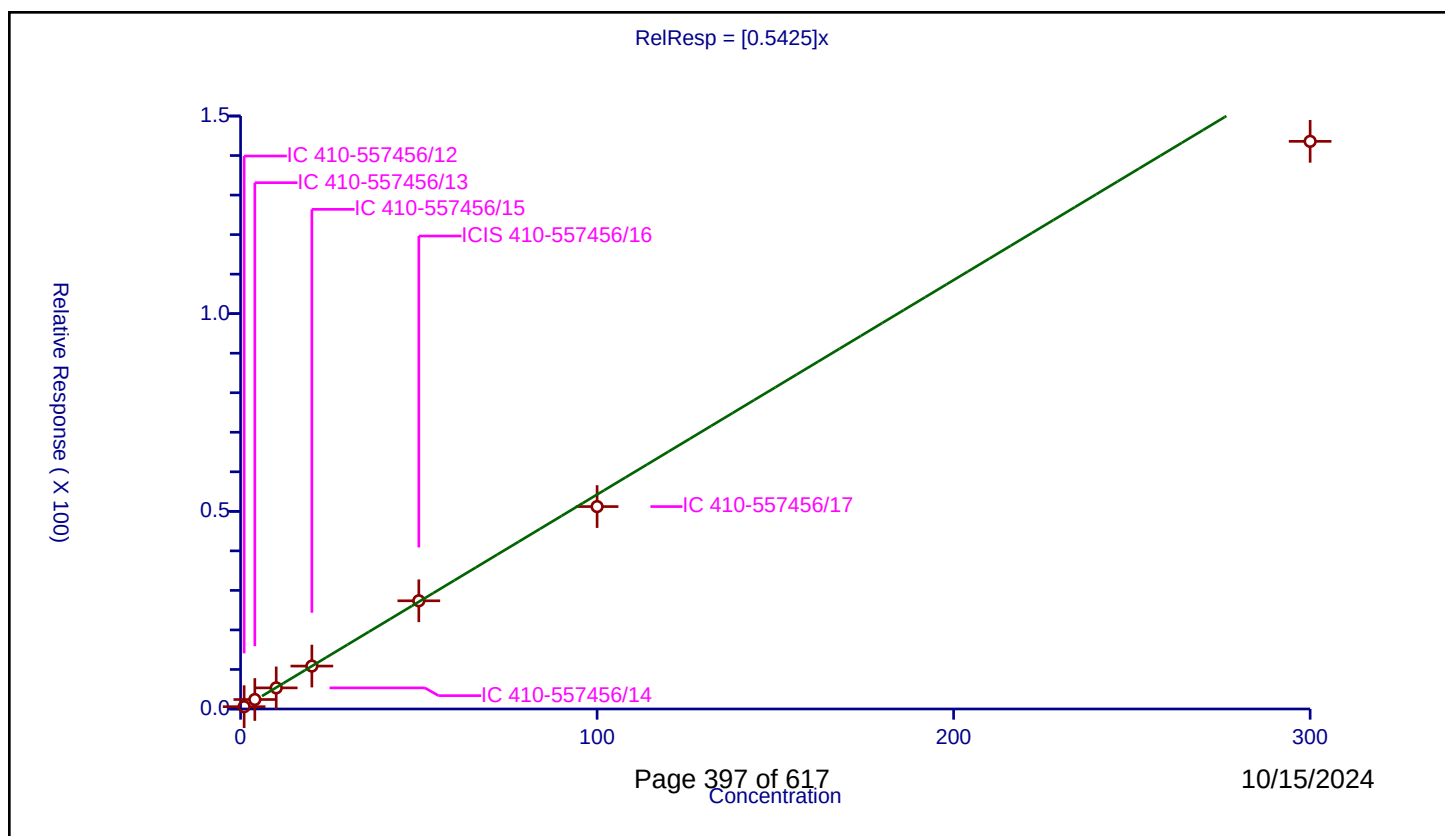
Curve Coefficients

Intercept: 0
Slope: 0.5425

Error Coefficients

Relative Standard Deviation: 7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.583149	50.0	1022466.0	0.583149	Y
2	IC 410-557456/13	4.0	2.397467	50.0	998700.0	0.599367	Y
3	IC 410-557456/14	10.0	5.339332	50.0	1066744.0	0.533933	Y
4	IC 410-557456/15	20.0	10.853826	50.0	1064233.0	0.542691	Y
5	ICIS 410-557456/16	50.0	27.3729	50.0	1027456.0	0.547458	Y
6	IC 410-557456/17	100.0	51.204054	50.0	1065567.0	0.512041	Y
7	IC 410-557456/18	300.0	143.594849	50.0	1093292.0	0.478649	Y



Calibration

/ Vinyl chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

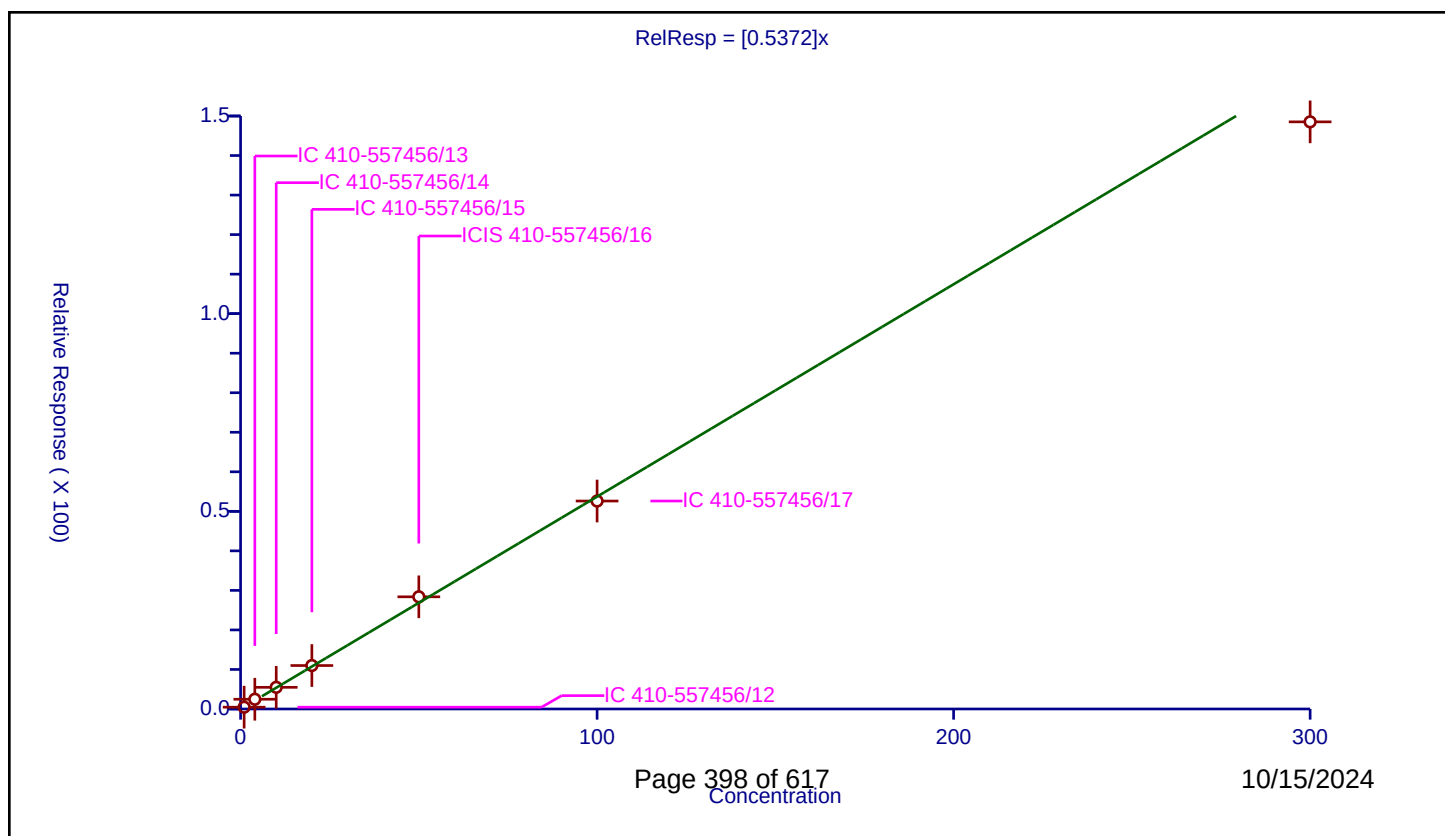
Curve Coefficients

Intercept: 0
Slope: 0.5372

Error Coefficients

Relative Standard Deviation: 9.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.457277	50.0	1022466.0	0.457277	Y
2	IC 410-557456/13	4.0	2.466957	50.0	998700.0	0.616739	Y
3	IC 410-557456/14	10.0	5.480931	50.0	1066744.0	0.548093	Y
4	IC 410-557456/15	20.0	10.988994	50.0	1064233.0	0.54945	Y
5	ICIS 410-557456/16	50.0	28.374256	50.0	1027456.0	0.567485	Y
6	IC 410-557456/17	100.0	52.604998	50.0	1065567.0	0.52605	Y
7	IC 410-557456/18	300.0	148.522398	50.0	1093292.0	0.495075	Y



Calibration

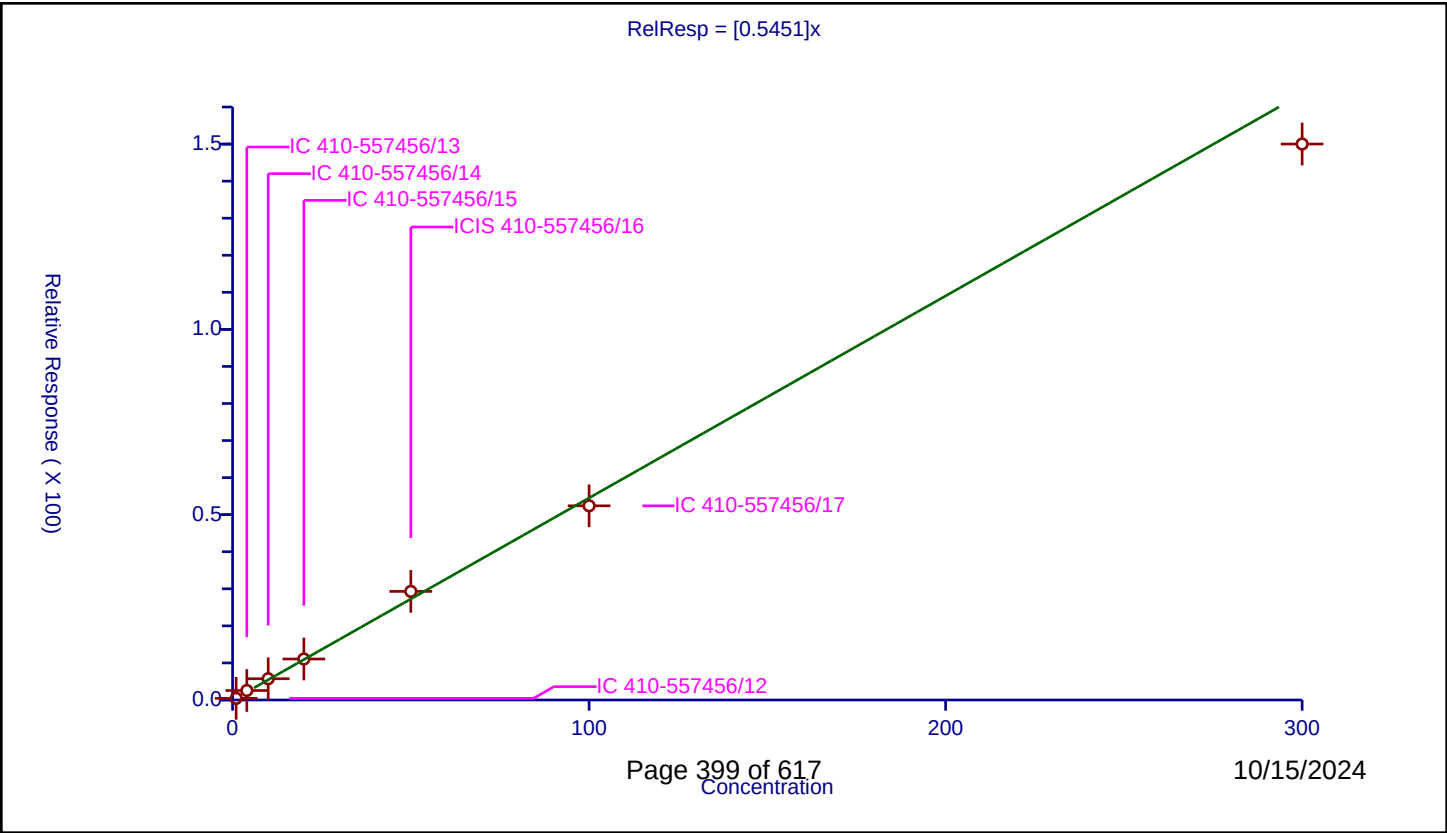
/ Butadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5451
Error Coefficients	

Relative Standard Deviation: 11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.440748	50.0	1022466.0	0.440748	Y
2	IC 410-557456/13	4.0	2.556373	50.0	998700.0	0.639093	Y
3	IC 410-557456/14	10.0	5.733803	50.0	1066744.0	0.57338	Y
4	IC 410-557456/15	20.0	11.055521	50.0	1064233.0	0.552776	Y
5	ICIS 410-557456/16	50.0	29.300427	50.0	1027456.0	0.586009	Y
6	IC 410-557456/17	100.0	52.391544	50.0	1065567.0	0.523915	Y
7	IC 410-557456/18	300.0	150.012348	50.0	1093292.0	0.500041	Y



Calibration

/ Bromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

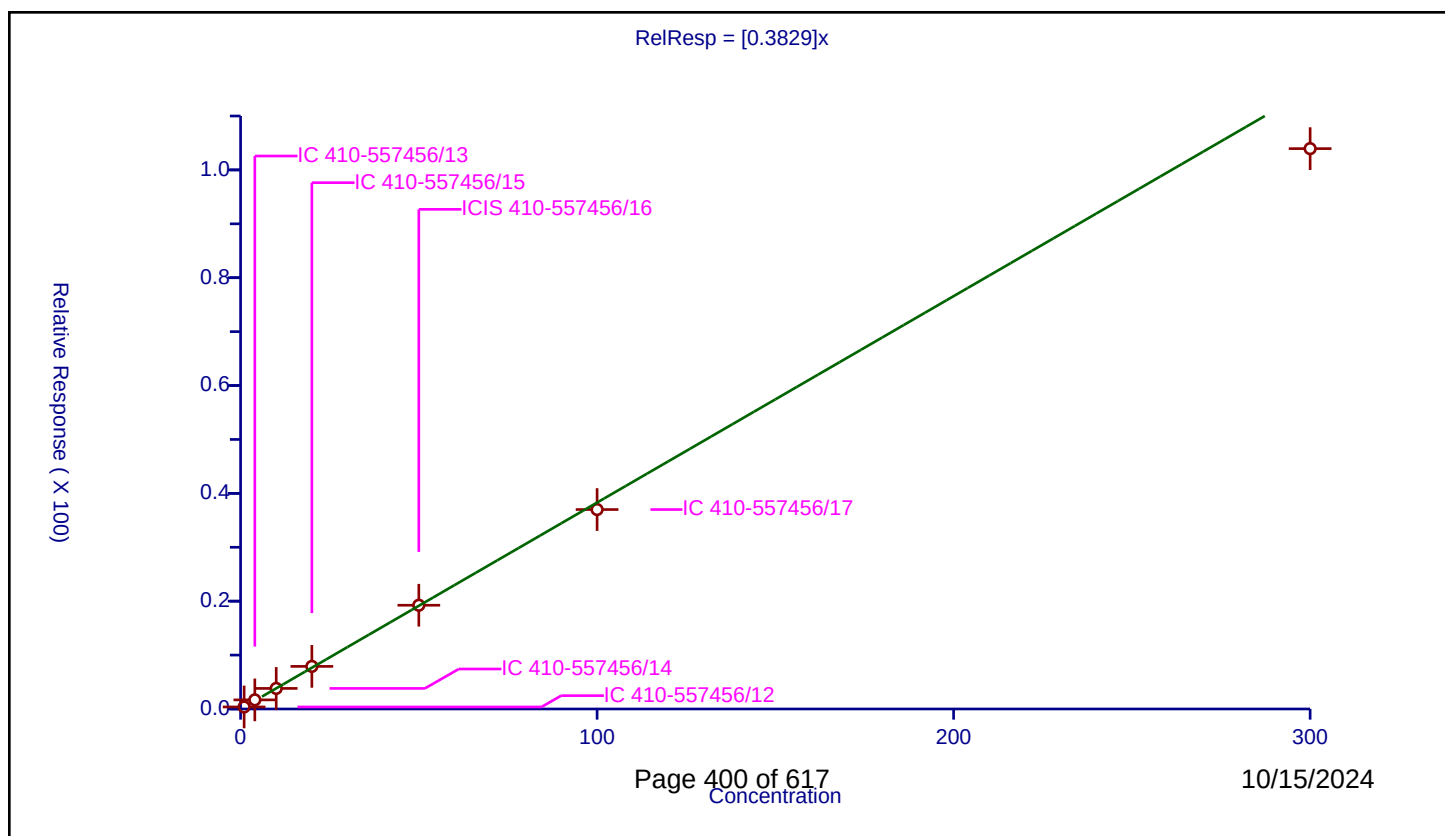
Curve Coefficients

Intercept: 0
Slope: 0.3829

Error Coefficients

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.379817	50.0	1022466.0	0.379817	Y
2	IC 410-557456/13	4.0	1.690297	50.0	998700.0	0.422574	Y
3	IC 410-557456/14	10.0	3.815114	50.0	1066744.0	0.381511	Y
4	IC 410-557456/15	20.0	7.90062	50.0	1064233.0	0.395031	Y
5	ICIS 410-557456/16	50.0	19.245885	50.0	1027456.0	0.384918	Y
6	IC 410-557456/17	100.0	36.998987	50.0	1065567.0	0.36999	Y
7	IC 410-557456/18	300.0	103.948213	50.0	1093292.0	0.346494	Y



Calibration

/ Chloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

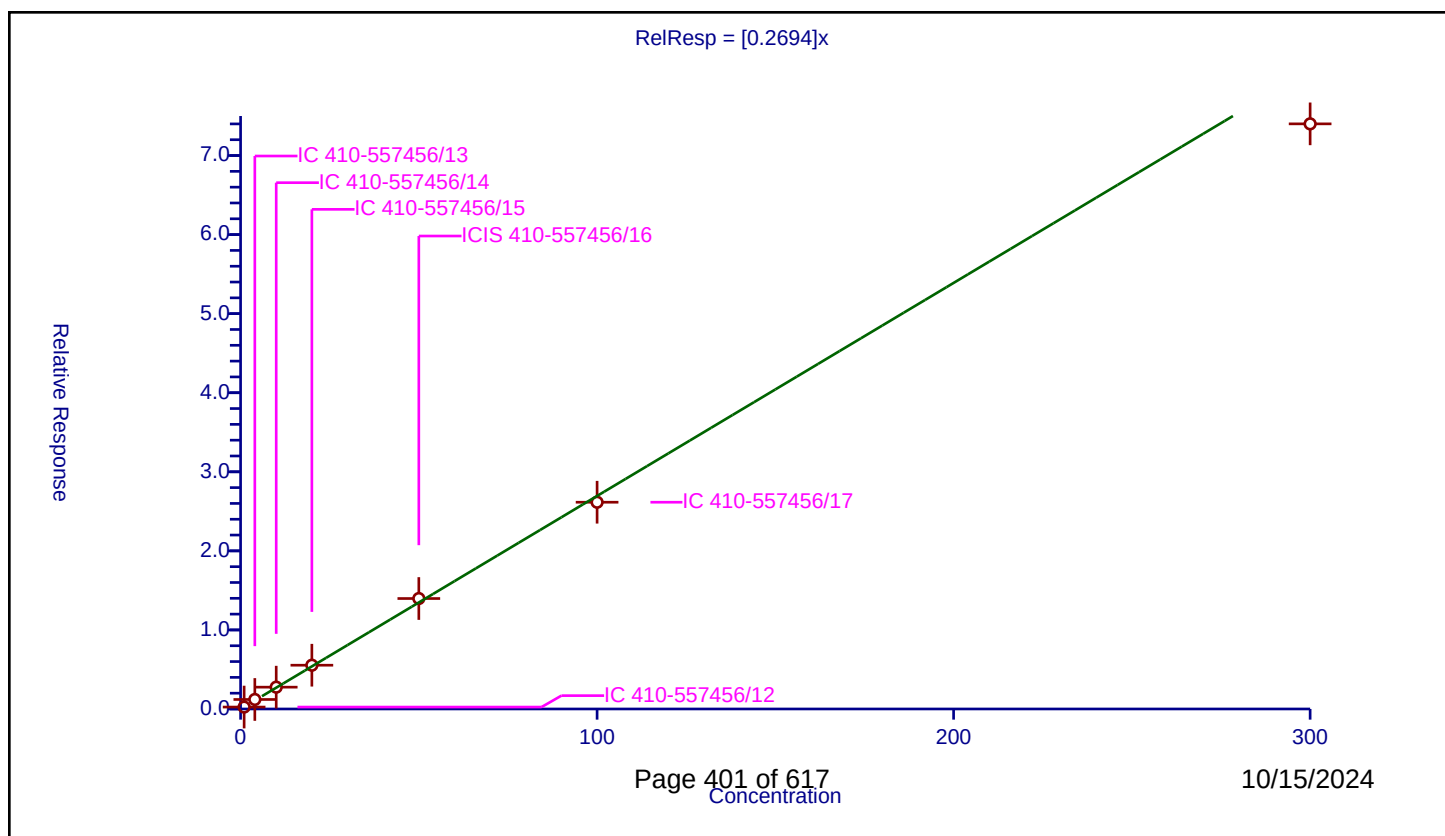
Curve Coefficients

Intercept: 0
Slope: 0.2694

Error Coefficients

Relative Standard Deviation: 7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.2448	50.0	1022466.0	0.2448	Y
2	IC 410-557456/13	4.0	1.203965	50.0	998700.0	0.300991	Y
3	IC 410-557456/14	10.0	2.759378	50.0	1066744.0	0.275938	Y
4	IC 410-557456/15	20.0	5.535442	50.0	1064233.0	0.276772	Y
5	ICIS 410-557456/16	50.0	13.972083	50.0	1027456.0	0.279442	Y
6	IC 410-557456/17	100.0	26.14974	50.0	1065567.0	0.261497	Y
7	IC 410-557456/18	300.0	74.006761	50.0	1093292.0	0.246689	Y



Calibration

/ Dichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

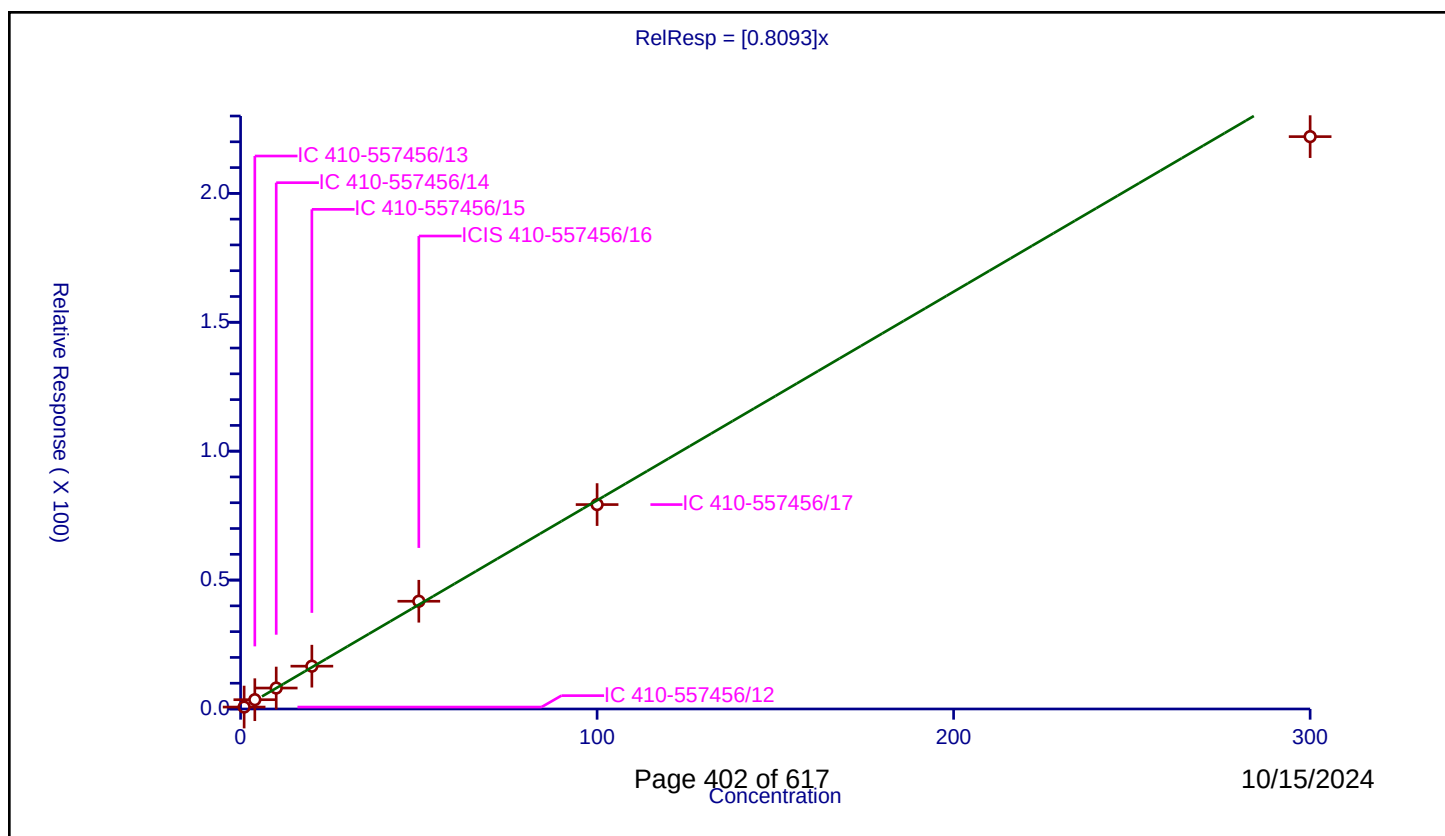
Curve Coefficients

Intercept: 0
Slope: 0.8093

Error Coefficients

Relative Standard Deviation: 6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.75313	50.0	1022466.0	0.75313	Y
2	IC 410-557456/13	4.0	3.60023	50.0	998700.0	0.900058	Y
3	IC 410-557456/14	10.0	8.12477	50.0	1066744.0	0.812477	Y
4	IC 410-557456/15	20.0	16.606561	50.0	1064233.0	0.830328	Y
5	ICIS 410-557456/16	50.0	41.794977	50.0	1027456.0	0.8359	Y
6	IC 410-557456/17	100.0	79.289805	50.0	1065567.0	0.792898	Y
7	IC 410-557456/18	300.0	222.005054	50.0	1093292.0	0.740017	Y



Calibration

/ Trichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

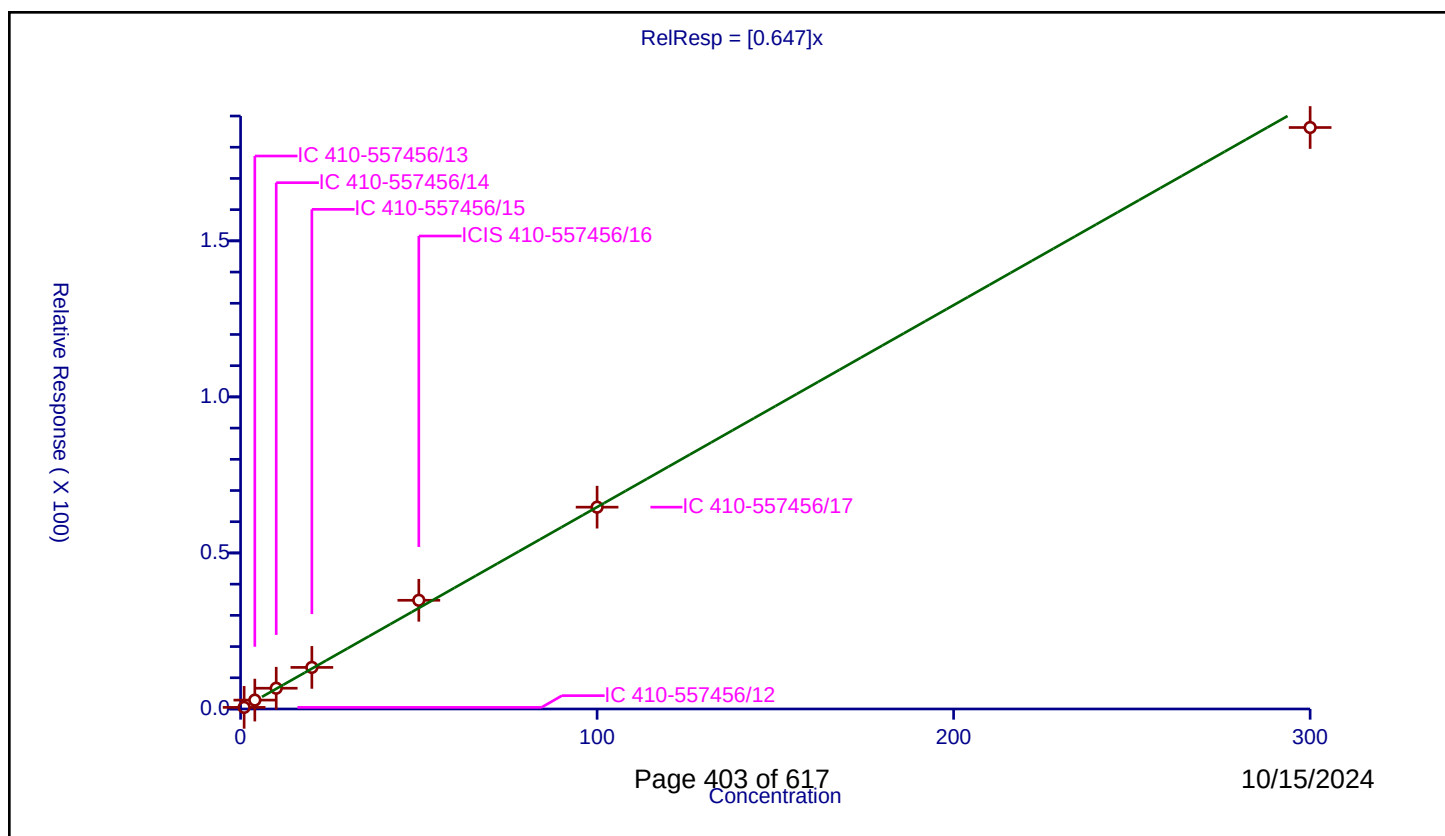
Curve Coefficients

Intercept: 0
Slope: 0.647

Error Coefficients

Relative Standard Deviation: 9.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.52036	50.0	1022466.0	0.52036	Y
2	IC 410-557456/13	4.0	2.849054	50.0	998700.0	0.712263	Y
3	IC 410-557456/14	10.0	6.656002	50.0	1066744.0	0.6656	Y
4	IC 410-557456/15	20.0	13.32368	50.0	1064233.0	0.666184	Y
5	ICIS 410-557456/16	50.0	34.835117	50.0	1027456.0	0.696702	Y
6	IC 410-557456/17	100.0	64.669702	50.0	1065567.0	0.646697	Y
7	IC 410-557456/18	300.0	186.315778	50.0	1093292.0	0.621053	Y



Calibration

/ Pentane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

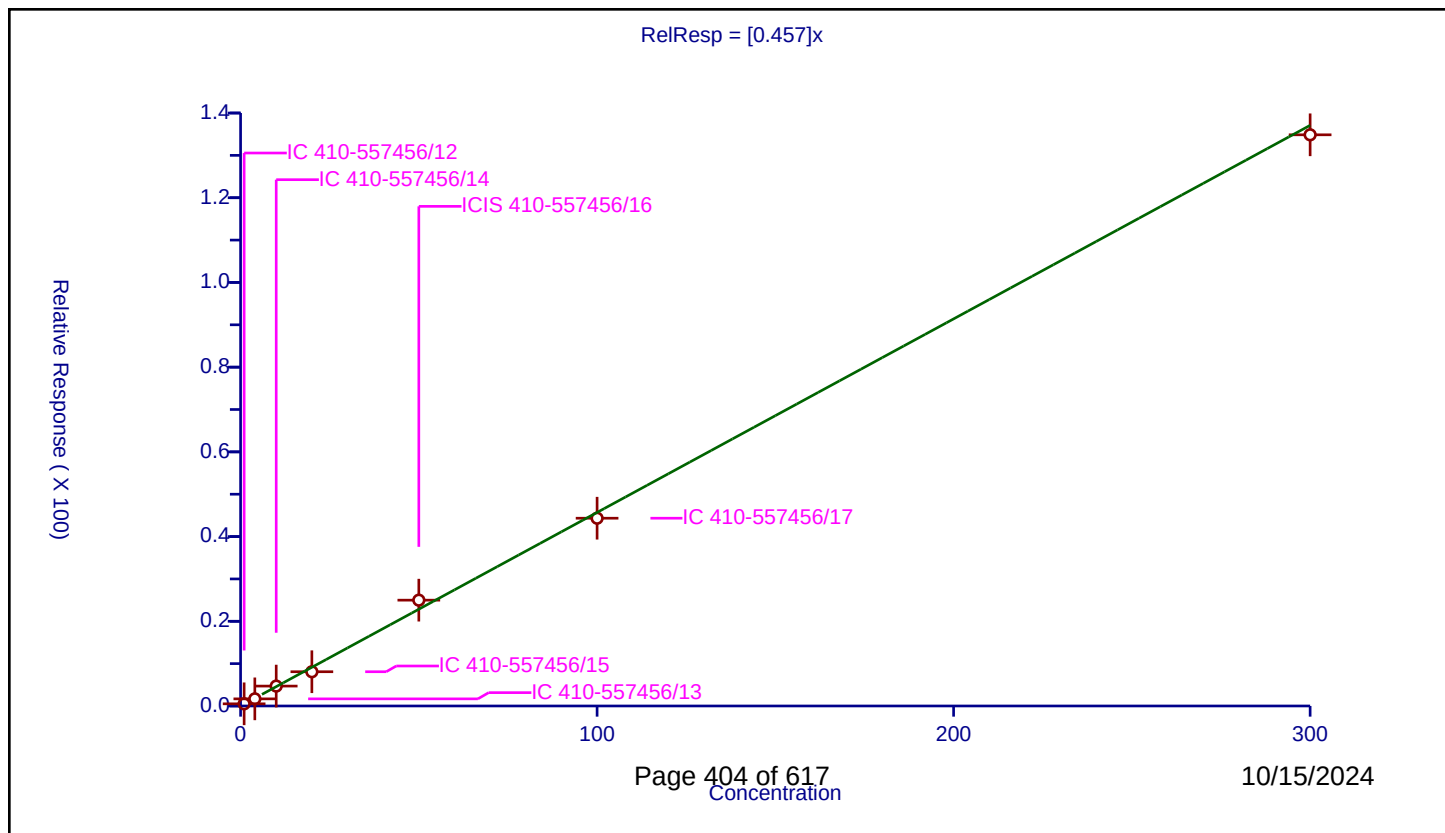
Curve Coefficients

Intercept: 0
Slope: 0.457

Error Coefficients

Relative Standard Deviation: 8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.510579	50.0	1022466.0	0.510579	Y
2	IC 410-557456/13	4.0	1.685191	50.0	998700.0	0.421298	Y
3	IC 410-557456/14	10.0	4.700894	50.0	1066744.0	0.470089	Y
4	IC 410-557456/15	20.0	8.083944	50.0	1064233.0	0.404197	Y
5	ICIS 410-557456/16	50.0	24.985985	50.0	1027456.0	0.49972	Y
6	IC 410-557456/17	100.0	44.333909	50.0	1065567.0	0.443339	Y
7	IC 410-557456/18	300.0	134.85368	50.0	1093292.0	0.449512	Y



Calibration

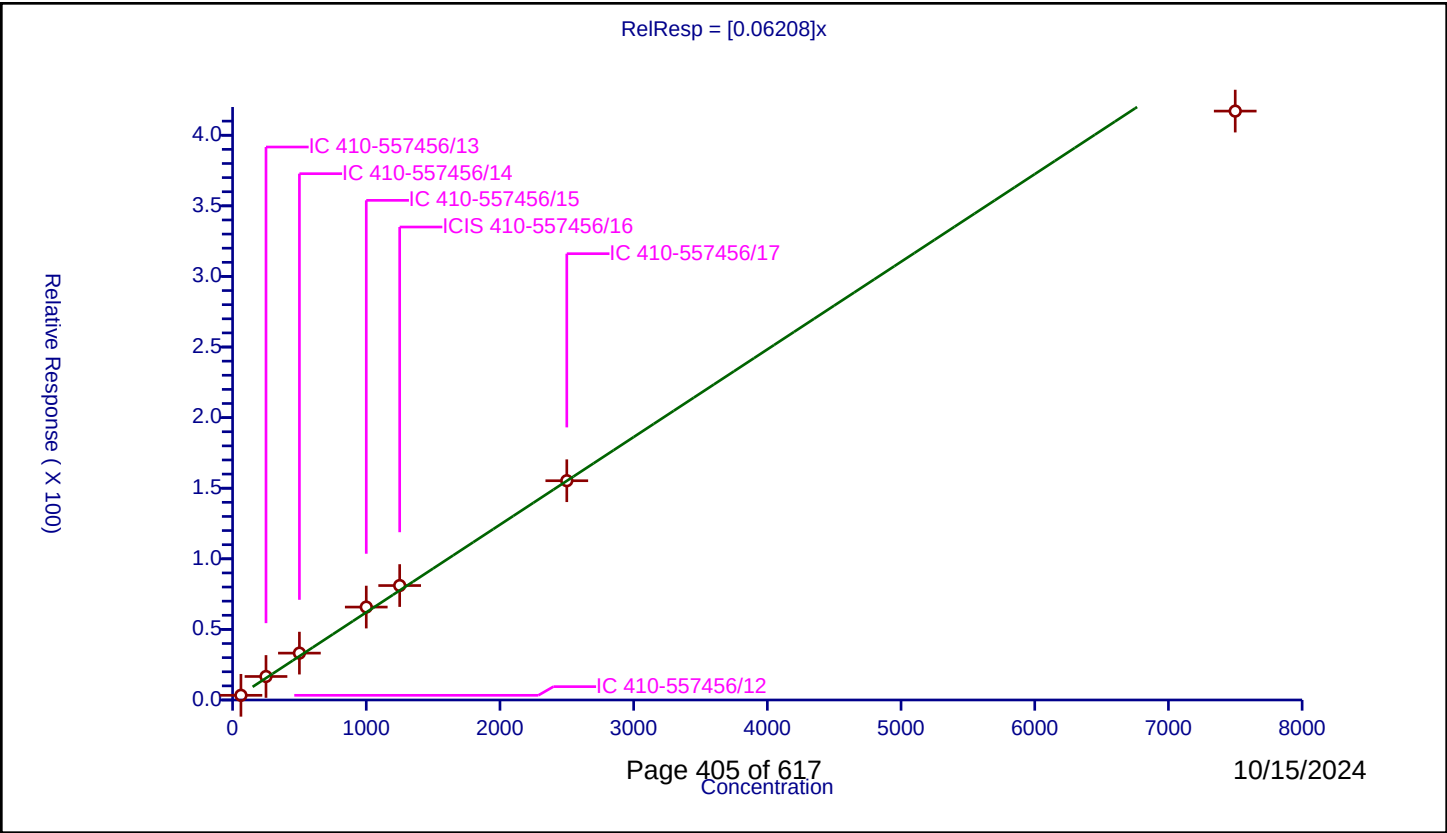
/ Ethanol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.06208

Error Coefficients	
Relative Standard Deviation:	8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	62.497786	3.321747	250.0	325657.0	0.05315	Y
2	IC 410-557456/13	249.991144	16.640293	250.0	311548.0	0.066564	Y
3	IC 410-557456/14	499.982288	33.200006	250.0	339390.0	0.066402	Y
4	IC 410-557456/15	999.964576	65.816453	250.0	326761.0	0.065819	Y
5	ICIS 410-557456/16	1249.95572	81.065619	250.0	331685.0	0.064855	Y
6	IC 410-557456/17	2499.91144	155.314303	250.0	356519.0	0.062128	Y
7	IC 410-557456/18	7499.73432	417.106761	250.0	370754.0	0.055616	Y



Calibration

/ 1,2-Dichloro-1,1,2-trifluoroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

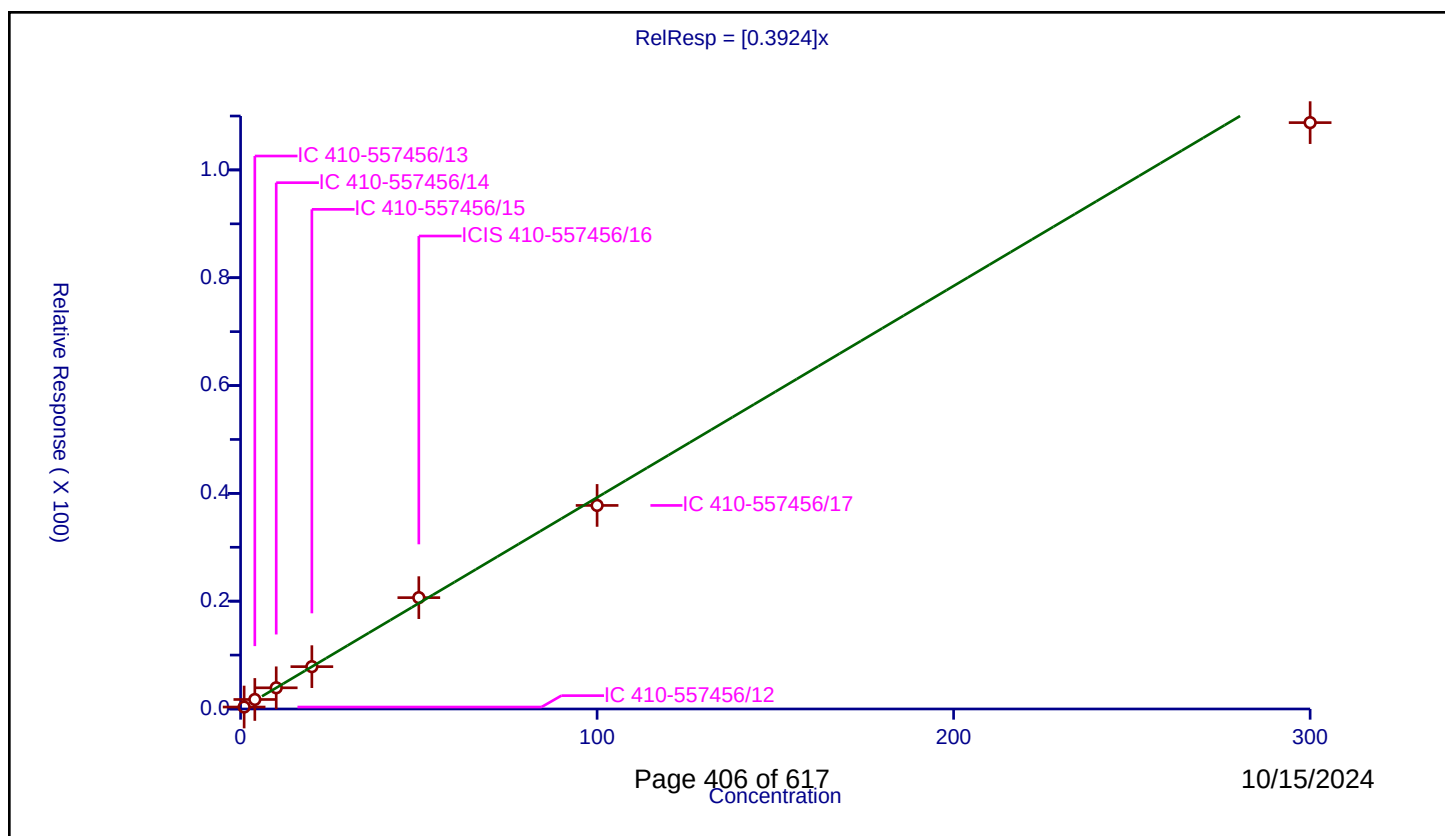
Curve Coefficients

Intercept: 0
Slope: 0.3924

Error Coefficients

Relative Standard Deviation: 7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.365978	50.0	1022466.0	0.365978	Y
2	IC 410-557456/13	4.0	1.765996	50.0	998700.0	0.441499	Y
3	IC 410-557456/14	10.0	3.932059	50.0	1066744.0	0.393206	Y
4	IC 410-557456/15	20.0	7.850818	50.0	1064233.0	0.392541	Y
5	ICIS 410-557456/16	50.0	20.655191	50.0	1027456.0	0.413104	Y
6	IC 410-557456/17	100.0	37.762337	50.0	1065567.0	0.377623	Y
7	IC 410-557456/18	300.0	108.77556	50.0	1093292.0	0.362585	Y

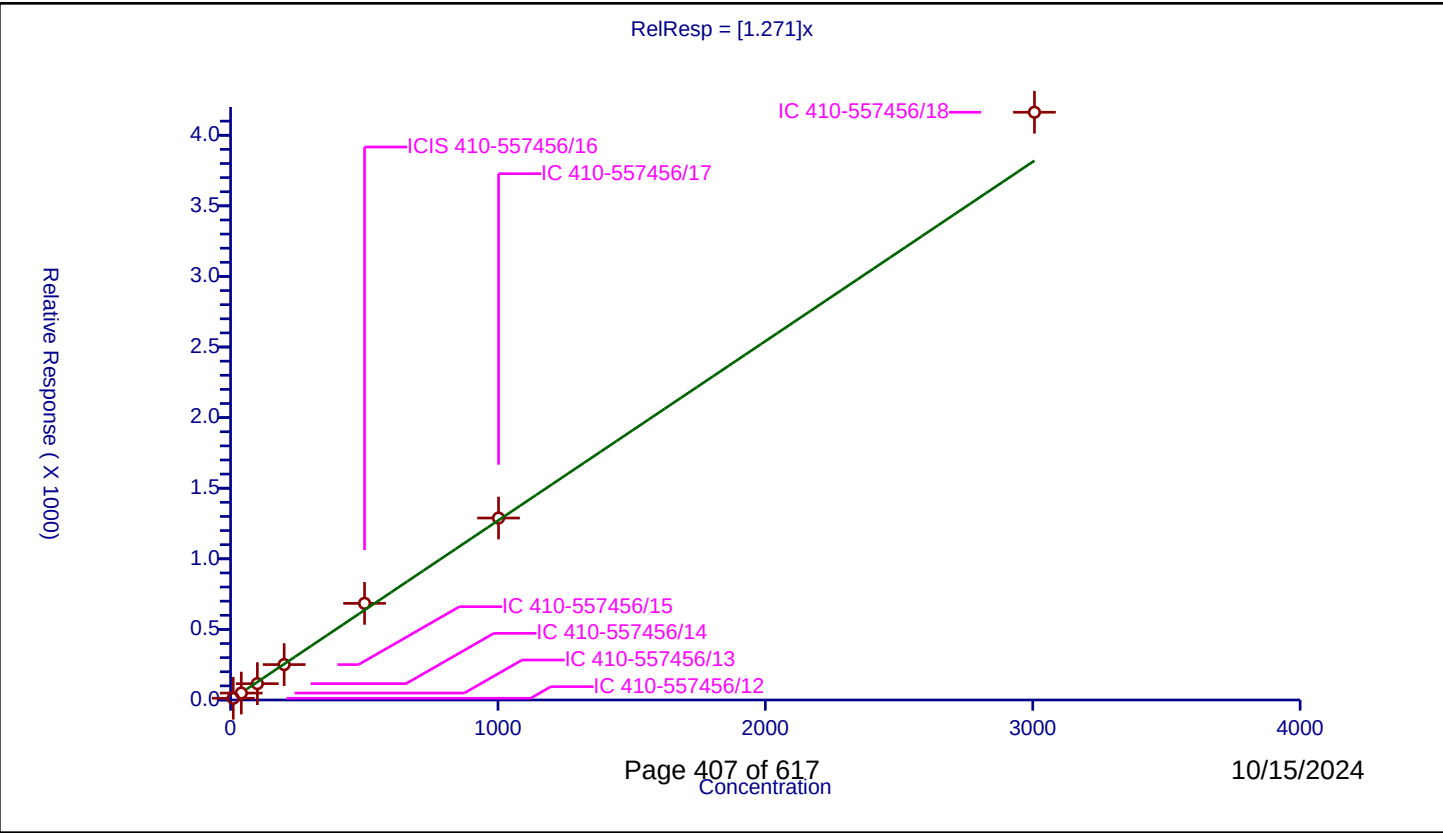


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.271

Error Coefficients	
Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	10.021277	12.346579	250.0	325657.0	1.232036	Y
2	IC 410-557456/13	40.08511	48.921033	250.0	311548.0	1.220429	Y
3	IC 410-557456/14	100.212774	115.632458	250.0	339390.0	1.153869	Y
4	IC 410-557456/15	200.425549	250.814051	250.0	326761.0	1.251408	Y
5	ICIS 410-557456/16	501.063872	684.406138	250.0	331685.0	1.365906	Y
6	IC 410-557456/17	1002.127744	1288.787554	250.0	356519.0	1.286051	Y
7	IC 410-557456/18	3006.383231	4163.071066	250.0	370754.0	1.384744	Y



Calibration

/ 1,1-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

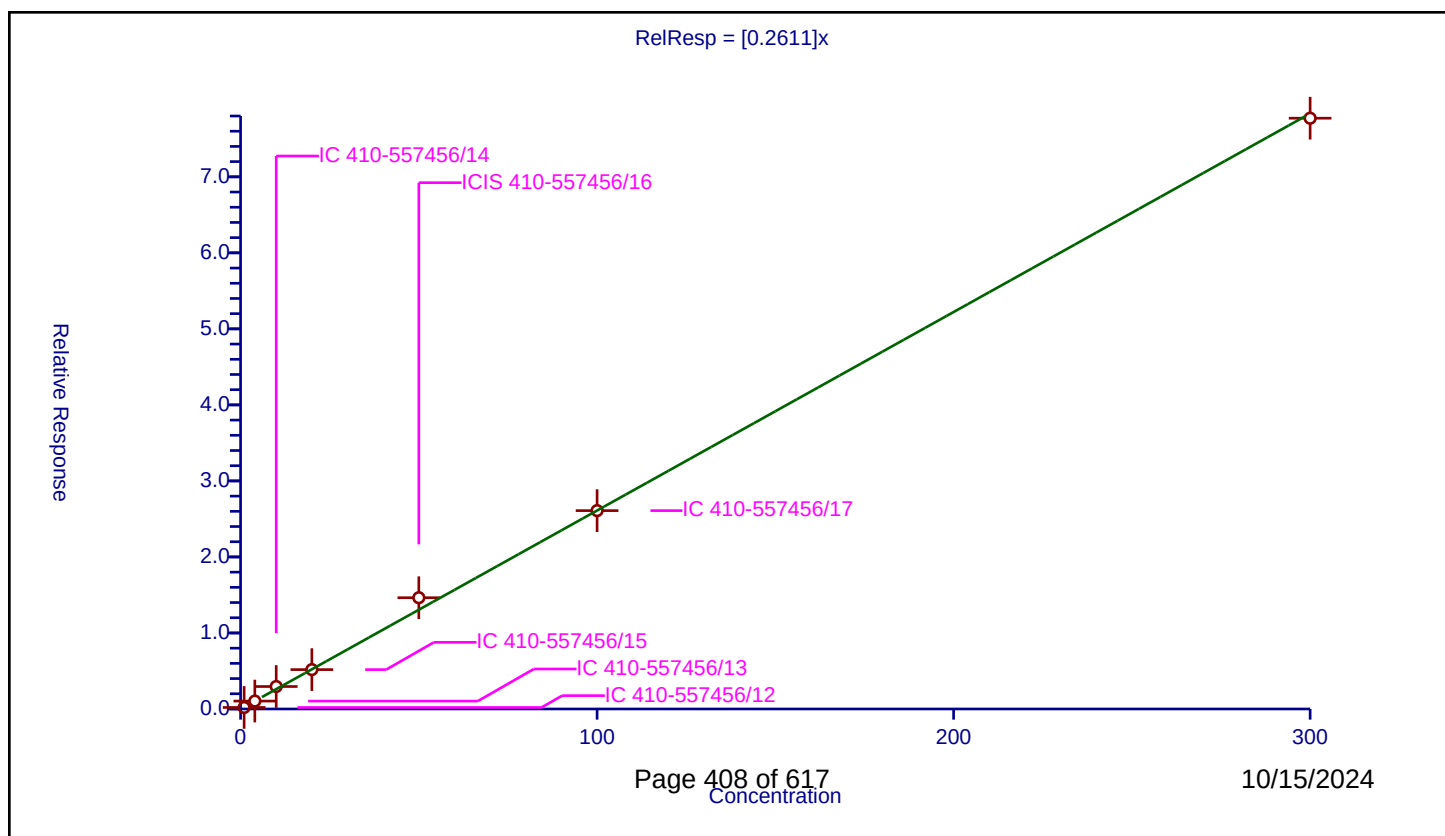
Curve Coefficients

Intercept: 0
Slope: 0.2611

Error Coefficients

Relative Standard Deviation: 12.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.200104	50.0	1022466.0	0.200104	Y
2	IC 410-557456/13	4.0	1.040803	50.0	998700.0	0.260201	Y
3	IC 410-557456/14	10.0	2.956848	50.0	1066744.0	0.295685	Y
4	IC 410-557456/15	20.0	5.177579	50.0	1064233.0	0.258879	Y
5	ICIS 410-557456/16	50.0	14.636442	50.0	1027456.0	0.292729	Y
6	IC 410-557456/17	100.0	26.092728	50.0	1065567.0	0.260927	Y
7	IC 410-557456/18	300.0	77.711627	50.0	1093292.0	0.259039	Y



Calibration

/ 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

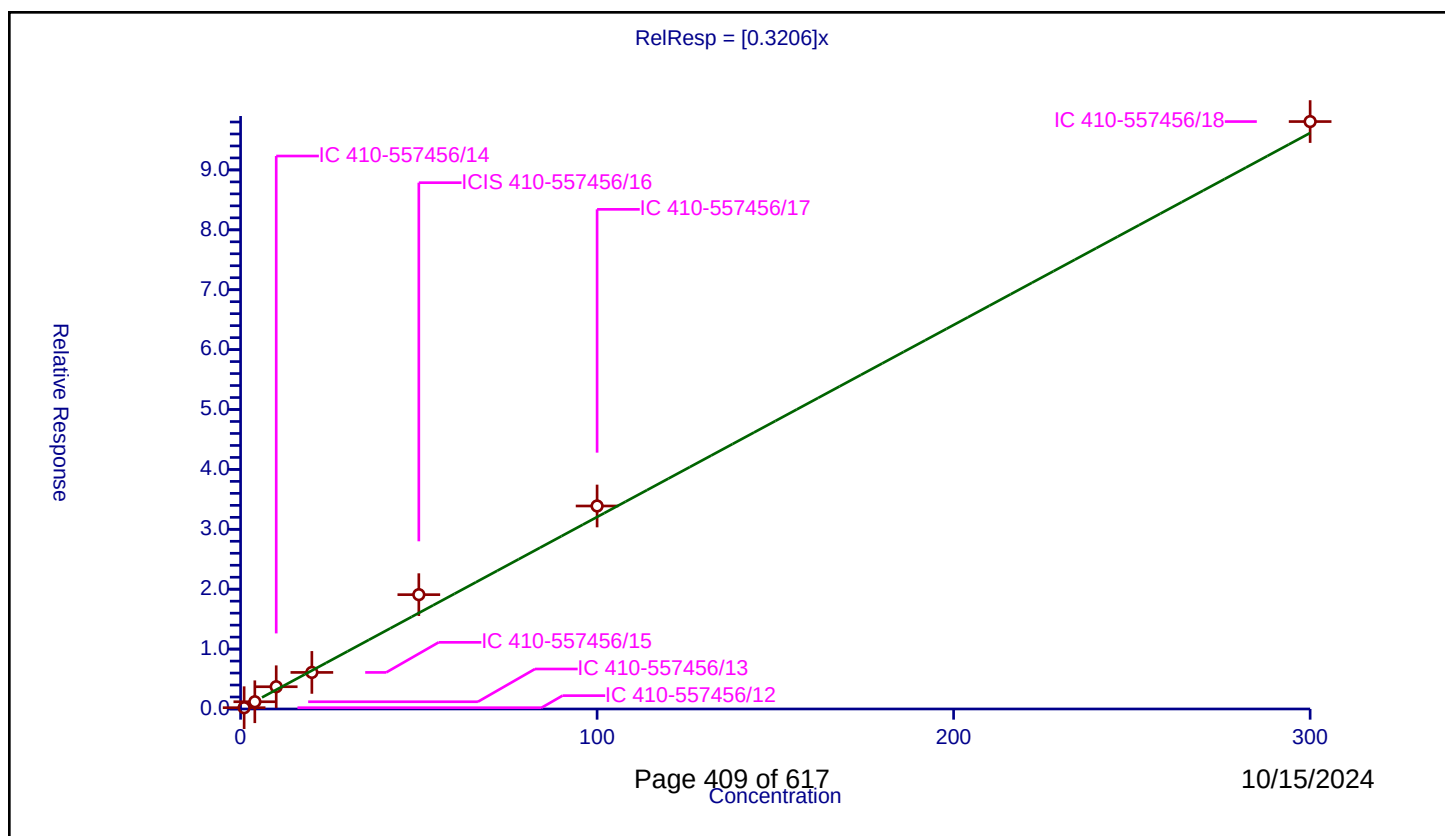
Curve Coefficients

Intercept: 0
Slope: 0.3206

Error Coefficients

Relative Standard Deviation: 17.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.21678	50.0	1022466.0	0.21678	Y
2	IC 410-557456/13	4.0	1.210724	50.0	998700.0	0.302681	Y
3	IC 410-557456/14	10.0	3.715324	50.0	1066744.0	0.371532	Y
4	IC 410-557456/15	20.0	6.106464	50.0	1064233.0	0.305323	Y
5	ICIS 410-557456/16	50.0	19.088749	50.0	1027456.0	0.381775	Y
6	IC 410-557456/17	100.0	33.893176	50.0	1065567.0	0.338932	Y
7	IC 410-557456/18	300.0	98.07197	50.0	1093292.0	0.326907	Y



Calibration

/ Acetone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

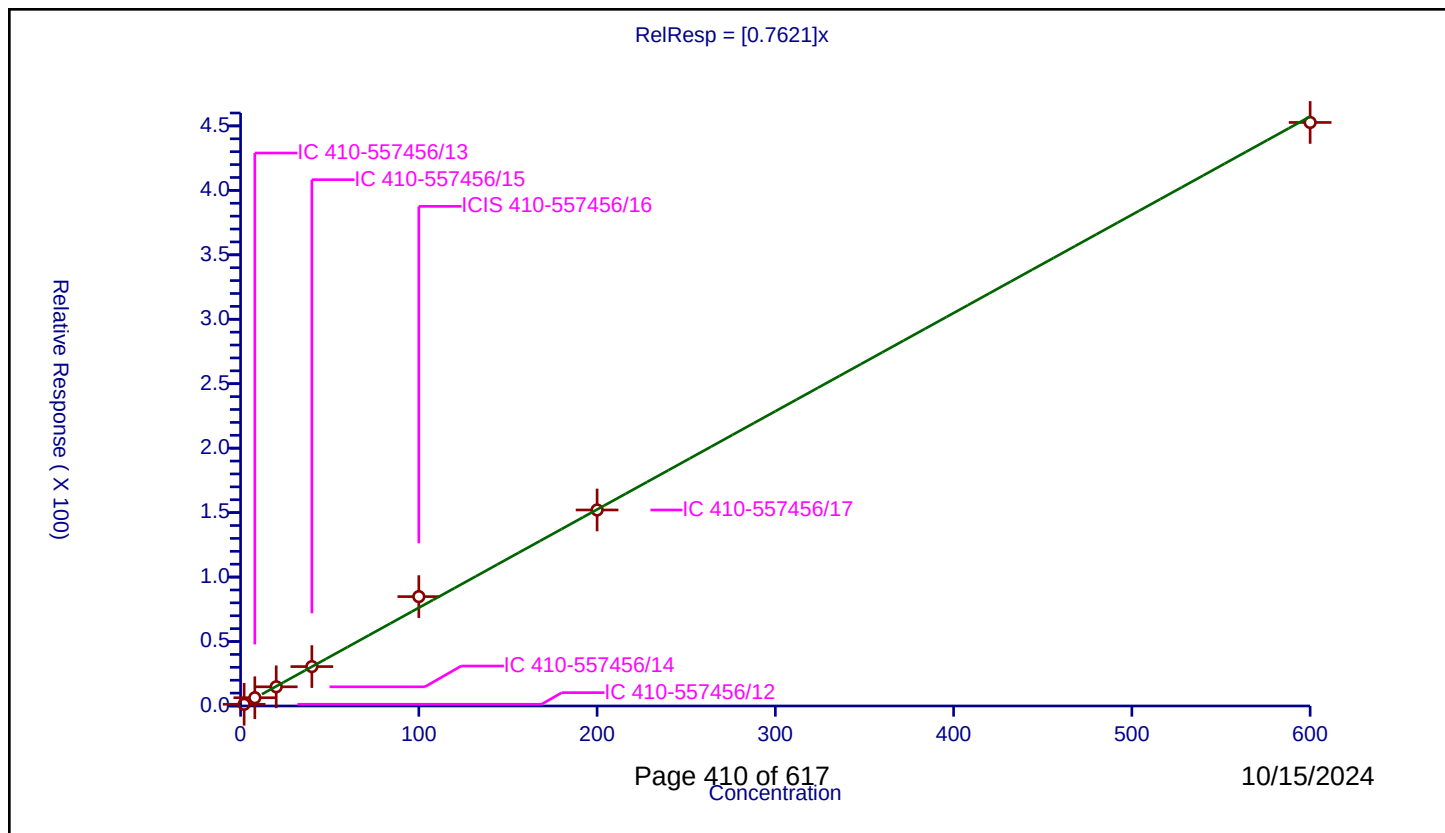
Curve Coefficients

Intercept: 0
Slope: 0.7621

Error Coefficients

Relative Standard Deviation: 7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	2.0	1.326549	250.0	325657.0	0.663275	Y
2	IC 410-557456/13	8.0	6.400298	250.0	311548.0	0.800037	Y
3	IC 410-557456/14	20.0	14.886267	250.0	339390.0	0.744313	Y
4	IC 410-557456/15	40.0	30.554442	250.0	326761.0	0.763861	Y
5	ICIS 410-557456/16	100.0	84.853852	250.0	331685.0	0.848539	Y
6	IC 410-557456/17	200.0	152.057815	250.0	356519.0	0.760289	Y
7	IC 410-557456/18	600.0	452.674819	250.0	370754.0	0.754458	Y



Calibration

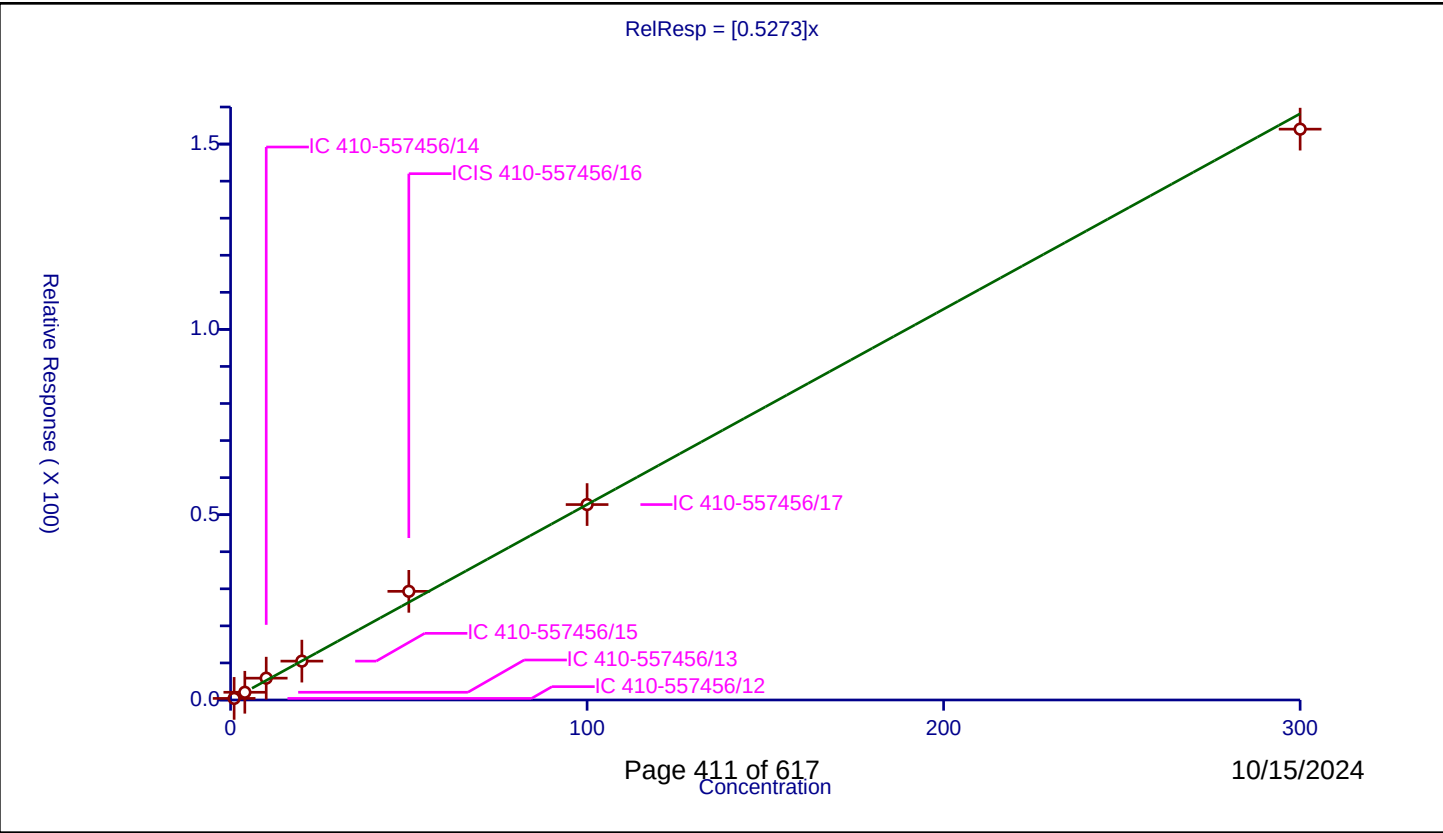
/ Iodomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5273
Error Coefficients	

Relative Standard Deviation: 10.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.430821	50.0	1022466.0	0.430821	Y
2	IC 410-557456/13	4.0	2.080354	50.0	998700.0	0.520089	Y
3	IC 410-557456/14	10.0	5.890589	50.0	1066744.0	0.589059	Y
4	IC 410-557456/15	20.0	10.484734	50.0	1064233.0	0.524237	Y
5	ICIS 410-557456/16	50.0	29.315805	50.0	1027456.0	0.586316	Y
6	IC 410-557456/17	100.0	52.730096	50.0	1065567.0	0.527301	Y
7	IC 410-557456/18	300.0	154.026097	50.0	1093292.0	0.51342	Y



Calibration

/ Isopropyl alcohol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

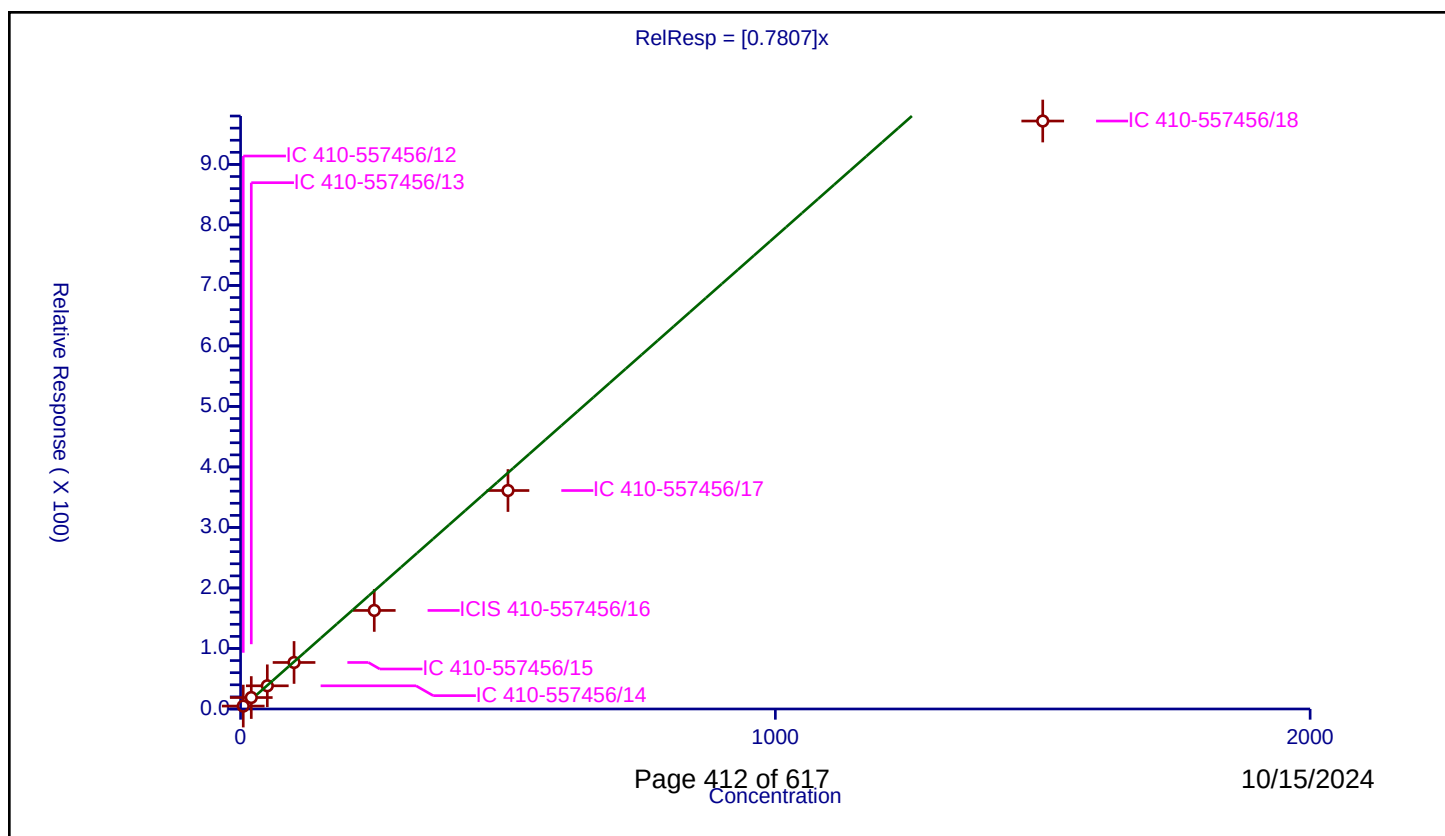
Curve Coefficients

Intercept: 0
Slope: 0.7807

Error Coefficients

Relative Standard Deviation: 16.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	5.0	4.803367	250.0	325657.0	0.960673	Y
2	IC 410-557456/13	20.0	18.948124	250.0	311548.0	0.947406	Y
3	IC 410-557456/14	50.0	38.321695	250.0	339390.0	0.766434	Y
4	IC 410-557456/15	100.0	76.866578	250.0	326761.0	0.768666	Y
5	ICIS 410-557456/16	250.0	162.878936	250.0	331685.0	0.651516	Y
6	IC 410-557456/17	500.0	361.061402	250.0	356519.0	0.722123	Y
7	IC 410-557456/18	1500.0	971.706981	250.0	370754.0	0.647805	Y



Calibration

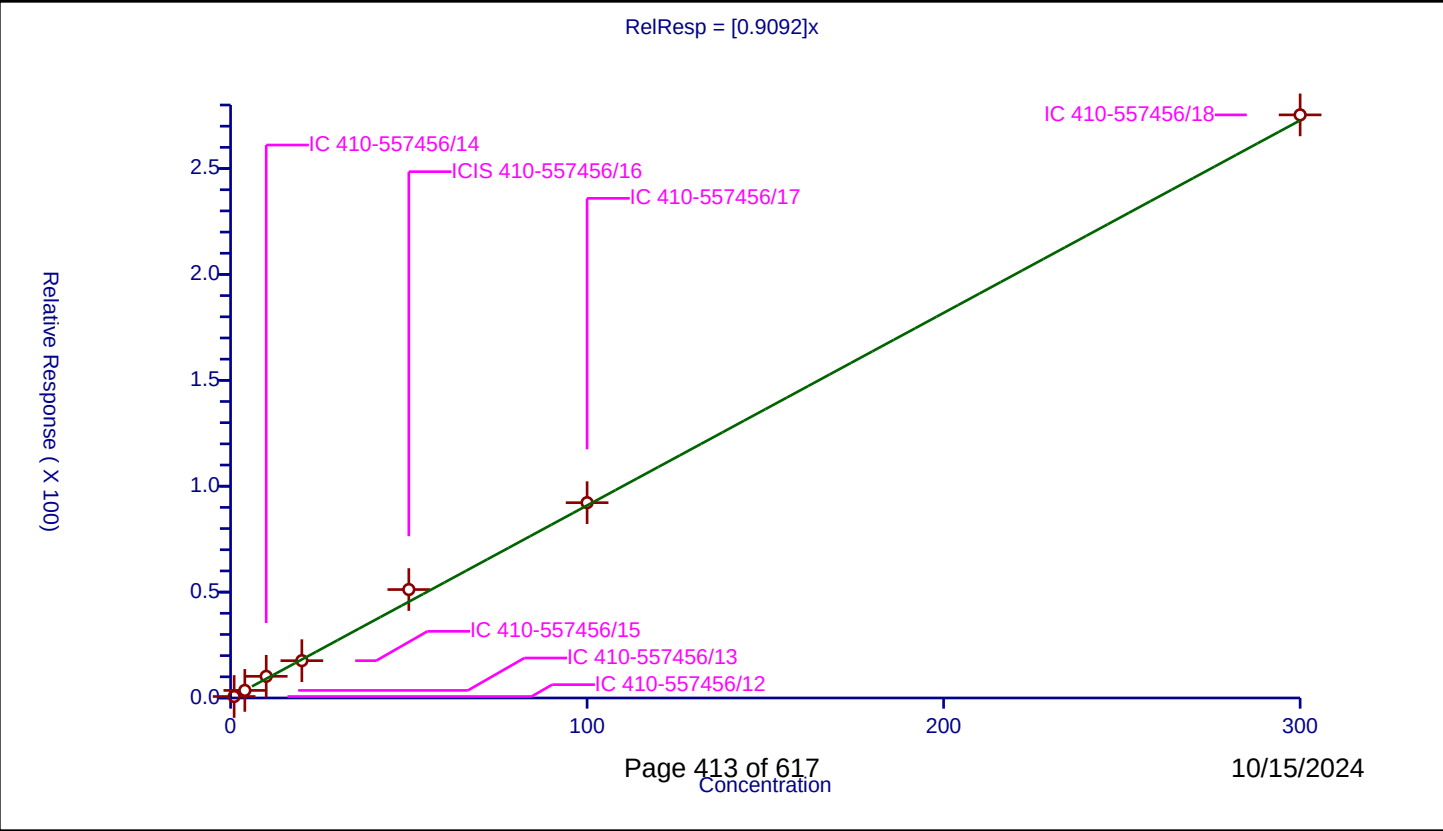
/ Carbon disulfide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9092

Error Coefficients	
Relative Standard Deviation:	12.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.69929	50.0	1022466.0	0.69929	Y
2	IC 410-557456/13	4.0	3.586012	50.0	998700.0	0.896503	Y
3	IC 410-557456/14	10.0	10.229727	50.0	1066744.0	1.022973	Y
4	IC 410-557456/15	20.0	17.621705	50.0	1064233.0	0.881085	Y
5	ICIS 410-557456/16	50.0	51.209541	50.0	1027456.0	1.024191	Y
6	IC 410-557456/17	100.0	92.233478	50.0	1065567.0	0.922335	Y
7	IC 410-557456/18	300.0	275.340348	50.0	1093292.0	0.917801	Y



Calibration

/ Methyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

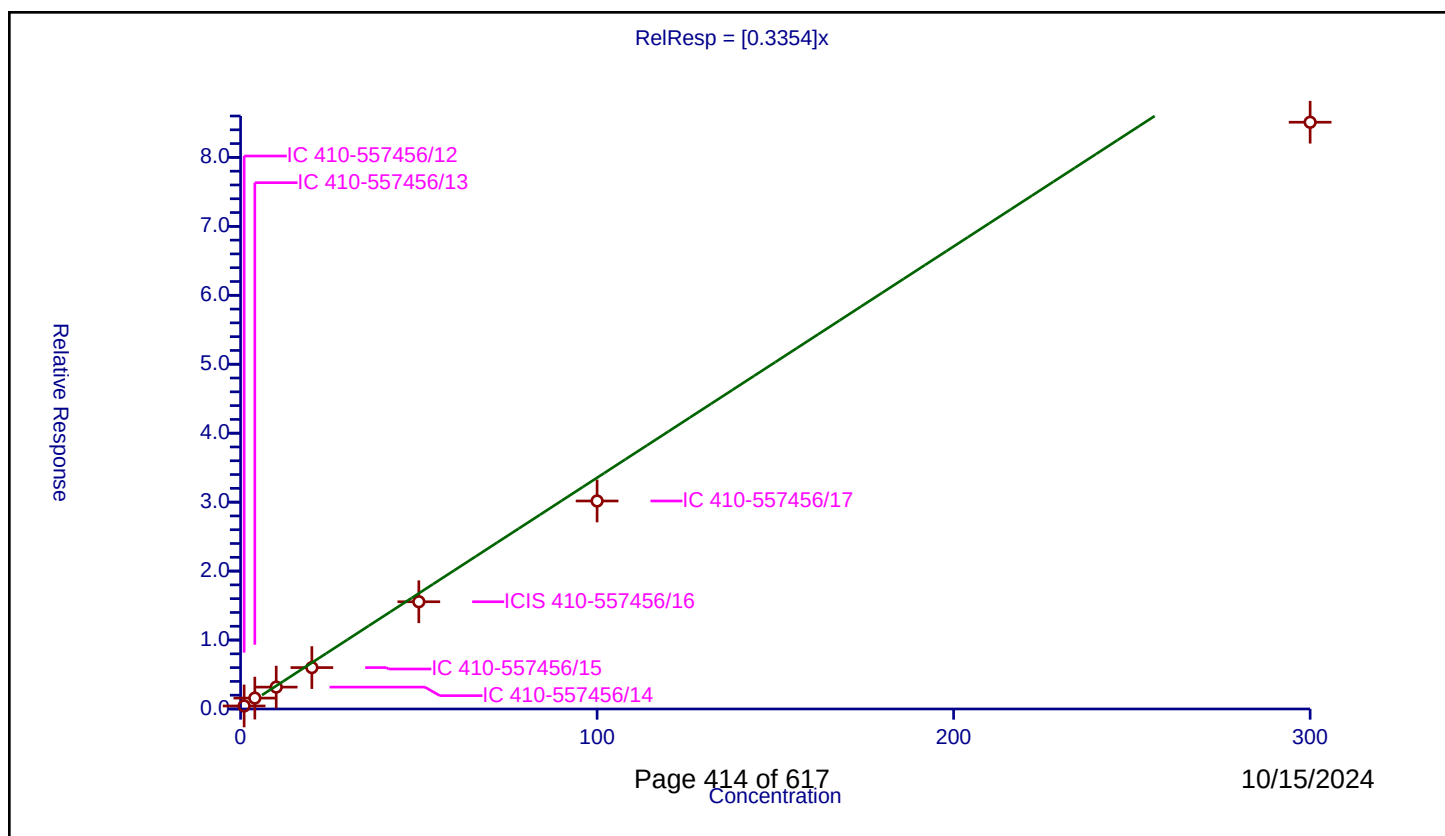
Curve Coefficients

Intercept: 0
Slope: 0.3354

Error Coefficients

Relative Standard Deviation: 17.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.438939	50.0	1022466.0	0.438939	Y
2	IC 410-557456/13	4.0	1.579854	50.0	998700.0	0.394963	Y
3	IC 410-557456/14	10.0	3.173676	50.0	1066744.0	0.317368	Y
4	IC 410-557456/15	20.0	6.003807	50.0	1064233.0	0.30019	Y
5	ICIS 410-557456/16	50.0	15.552539	50.0	1027456.0	0.311051	Y
6	IC 410-557456/17	100.0	30.168586	50.0	1065567.0	0.301686	Y
7	IC 410-557456/18	300.0	85.096891	50.0	1093292.0	0.283656	Y



Calibration

/ 3-Chloro-1-propene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

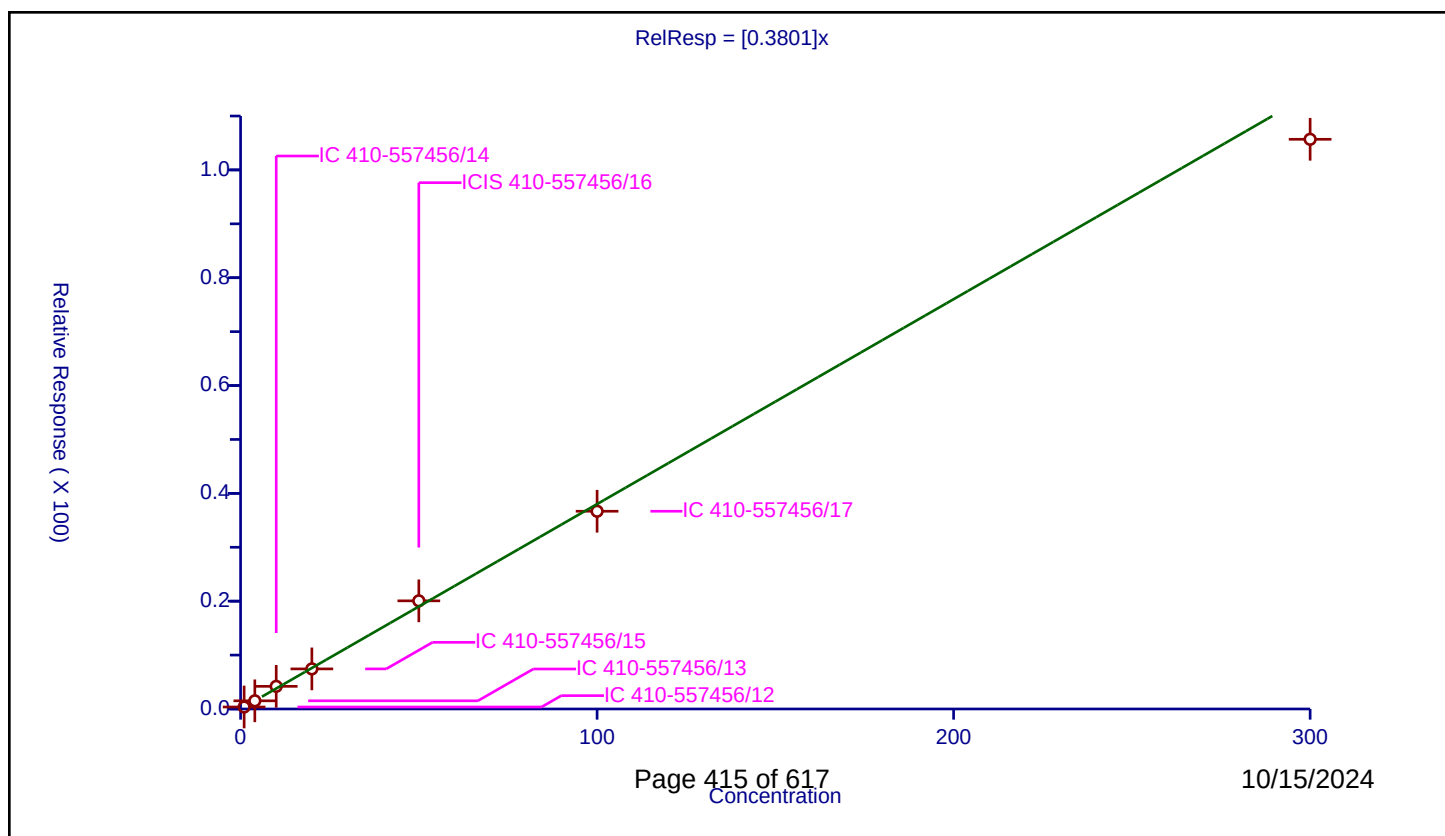
Curve Coefficients

Intercept: 0
Slope: 0.3801

Error Coefficients

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.369254	50.0	1022466.0	0.369254	Y
2	IC 410-557456/13	4.0	1.516371	50.0	998700.0	0.379093	Y
3	IC 410-557456/14	10.0	4.200914	50.0	1066744.0	0.420091	Y
4	IC 410-557456/15	20.0	7.435402	50.0	1064233.0	0.37177	Y
5	ICIS 410-557456/16	50.0	20.063828	50.0	1027456.0	0.401277	Y
6	IC 410-557456/17	100.0	36.685023	50.0	1065567.0	0.36685	Y
7	IC 410-557456/18	300.0	105.682562	50.0	1093292.0	0.352275	Y



Calibration

/ Methylene Chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

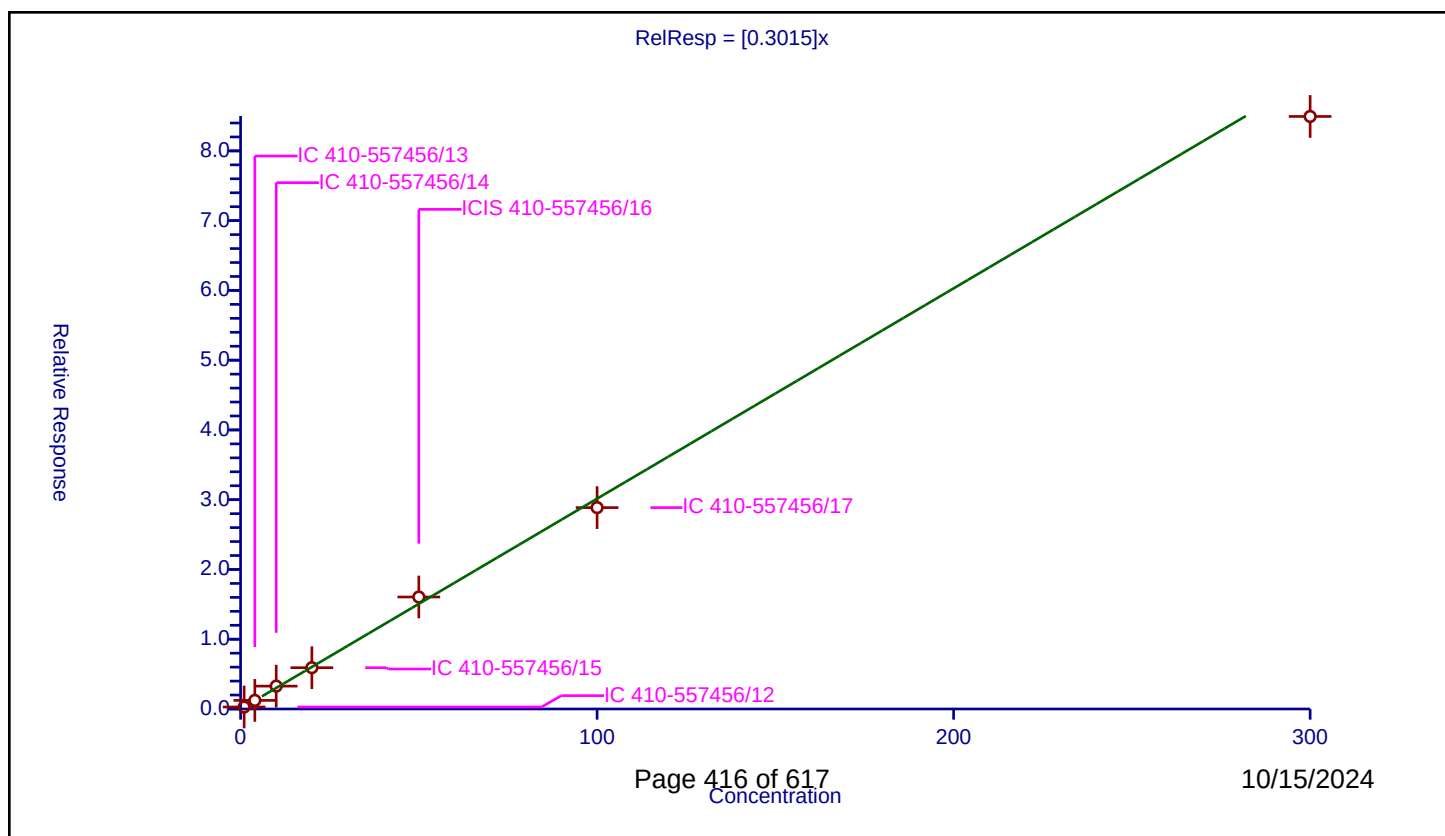
Curve Coefficients

Intercept: 0
Slope: 0.3015

Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.285535	50.0	1022466.0	0.285535	Y
2	IC 410-557456/13	4.0	1.232502	50.0	998700.0	0.308126	Y
3	IC 410-557456/14	10.0	3.278012	50.0	1066744.0	0.327801	Y
4	IC 410-557456/15	20.0	5.918441	50.0	1064233.0	0.295922	Y
5	ICIS 410-557456/16	50.0	16.053972	50.0	1027456.0	0.321079	Y
6	IC 410-557456/17	100.0	28.86543	50.0	1065567.0	0.288654	Y
7	IC 410-557456/18	300.0	84.934171	50.0	1093292.0	0.283114	Y



Calibration

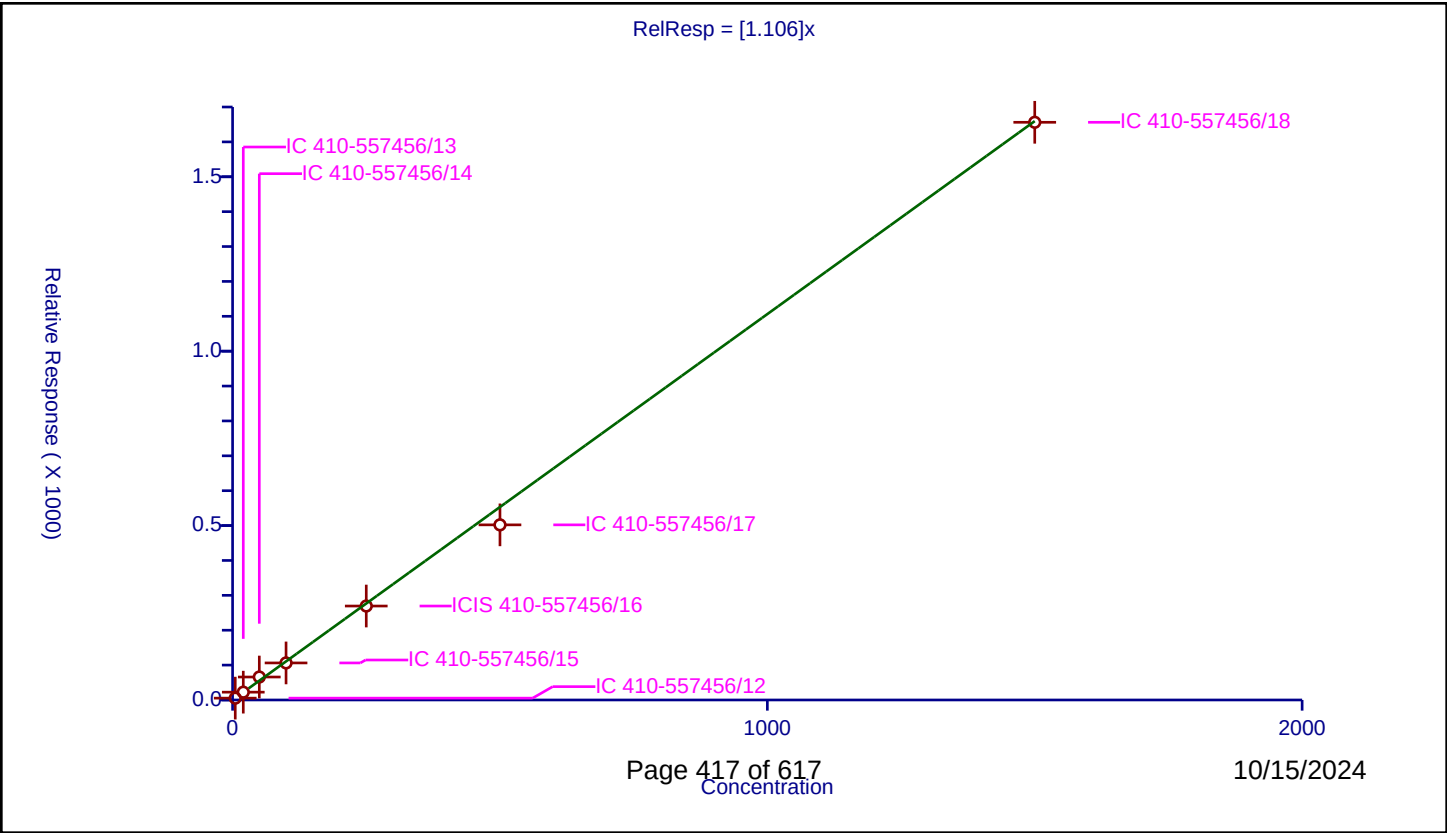
/ 2-Methyl-2-propanol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.106
Error Coefficients	

Relative Standard Deviation: 9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	5.0	5.290075	250.0	325657.0	1.058015	Y
2	IC 410-557456/13	20.0	22.417091	250.0	311548.0	1.120855	Y
3	IC 410-557456/14	50.0	65.877015	250.0	339390.0	1.31754	Y
4	IC 410-557456/15	100.0	106.233608	250.0	326761.0	1.062336	Y
5	ICIS 410-557456/16	250.0	269.358729	250.0	331685.0	1.077435	Y
6	IC 410-557456/17	500.0	502.070016	250.0	356519.0	1.00414	Y
7	IC 410-557456/18	1500.0	1656.165544	250.0	370754.0	1.10411	Y



Calibration

/ Acrylonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

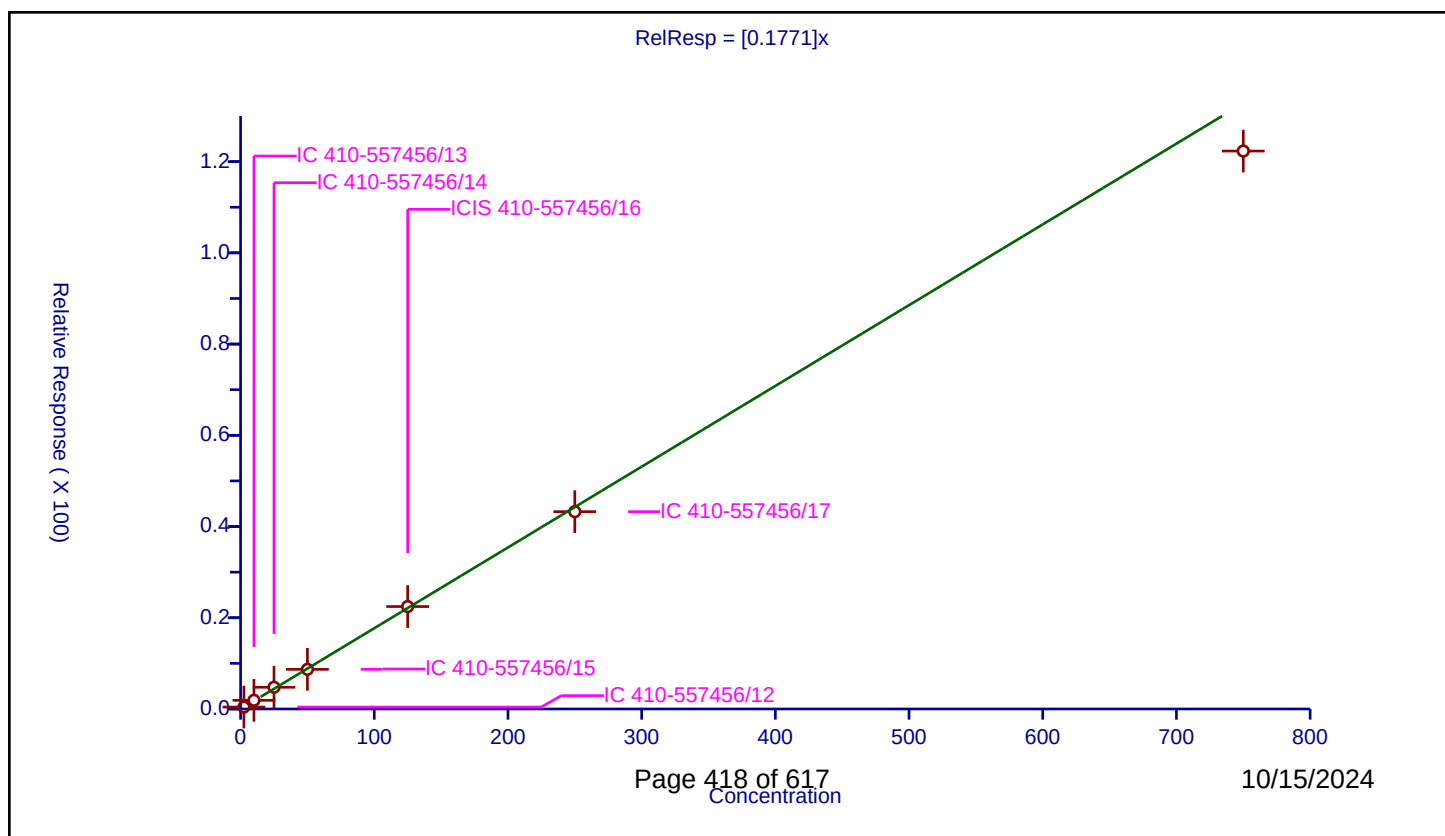
Curve Coefficients

Intercept: 0
Slope: 0.1771

Error Coefficients

Relative Standard Deviation: 5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	2.5	0.423388	50.0	1022466.0	0.169355	Y
2	IC 410-557456/13	10.0	1.90012	50.0	998700.0	0.190012	Y
3	IC 410-557456/14	25.0	4.759202	50.0	1066744.0	0.190368	Y
4	IC 410-557456/15	50.0	8.69288	50.0	1064233.0	0.173858	Y
5	ICIS 410-557456/16	125.0	22.458042	50.0	1027456.0	0.179664	Y
6	IC 410-557456/17	250.0	43.260067	50.0	1065567.0	0.17304	Y
7	IC 410-557456/18	750.0	122.319975	50.0	1093292.0	0.163093	Y



Calibration

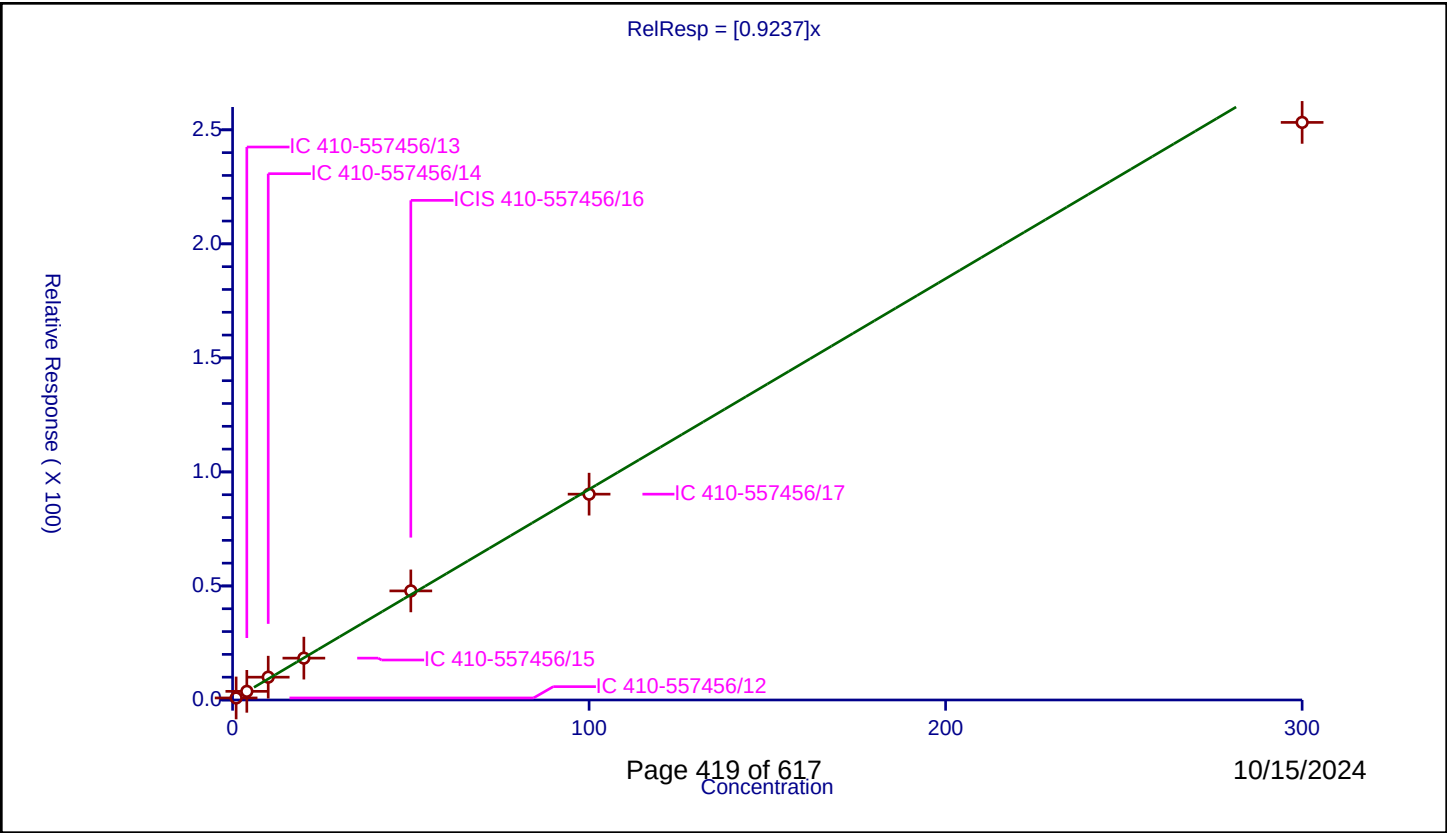
/ Methyl tert-butyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9237
Error Coefficients	

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.894504	50.0	1022466.0	0.894504	Y
2	IC 410-557456/13	4.0	3.798788	50.0	998700.0	0.949697	Y
3	IC 410-557456/14	10.0	10.004509	50.0	1066744.0	1.000451	Y
4	IC 410-557456/15	20.0	18.354956	50.0	1064233.0	0.917748	Y
5	ICIS 410-557456/16	50.0	47.826476	50.0	1027456.0	0.95653	Y
6	IC 410-557456/17	100.0	90.248478	50.0	1065567.0	0.902485	Y
7	IC 410-557456/18	300.0	253.252791	50.0	1093292.0	0.844176	Y



Calibration

/ trans-1,2-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

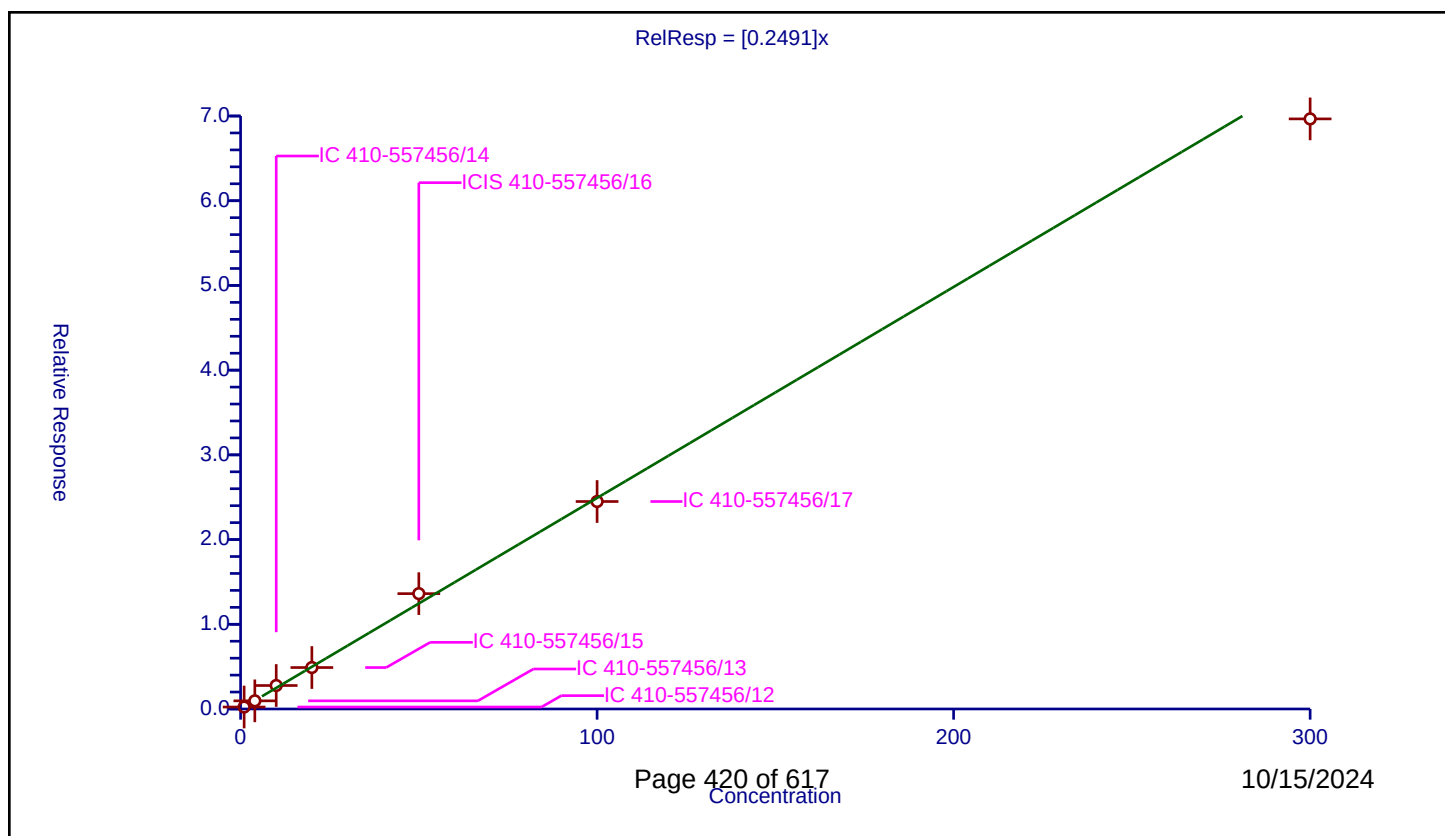
Curve Coefficients

Intercept: 0
 Slope: 0.2491

Error Coefficients

Relative Standard Deviation: 7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.231695	50.0	1022466.0	0.231695	Y
2	IC 410-557456/13	4.0	0.962051	50.0	998700.0	0.240513	Y
3	IC 410-557456/14	10.0	2.772736	50.0	1066744.0	0.277274	Y
4	IC 410-557456/15	20.0	4.894088	50.0	1064233.0	0.244704	Y
5	ICIS 410-557456/16	50.0	13.618101	50.0	1027456.0	0.272362	Y
6	IC 410-557456/17	100.0	24.493345	50.0	1065567.0	0.244933	Y
7	IC 410-557456/18	300.0	69.65989	50.0	1093292.0	0.2322	Y



Calibration

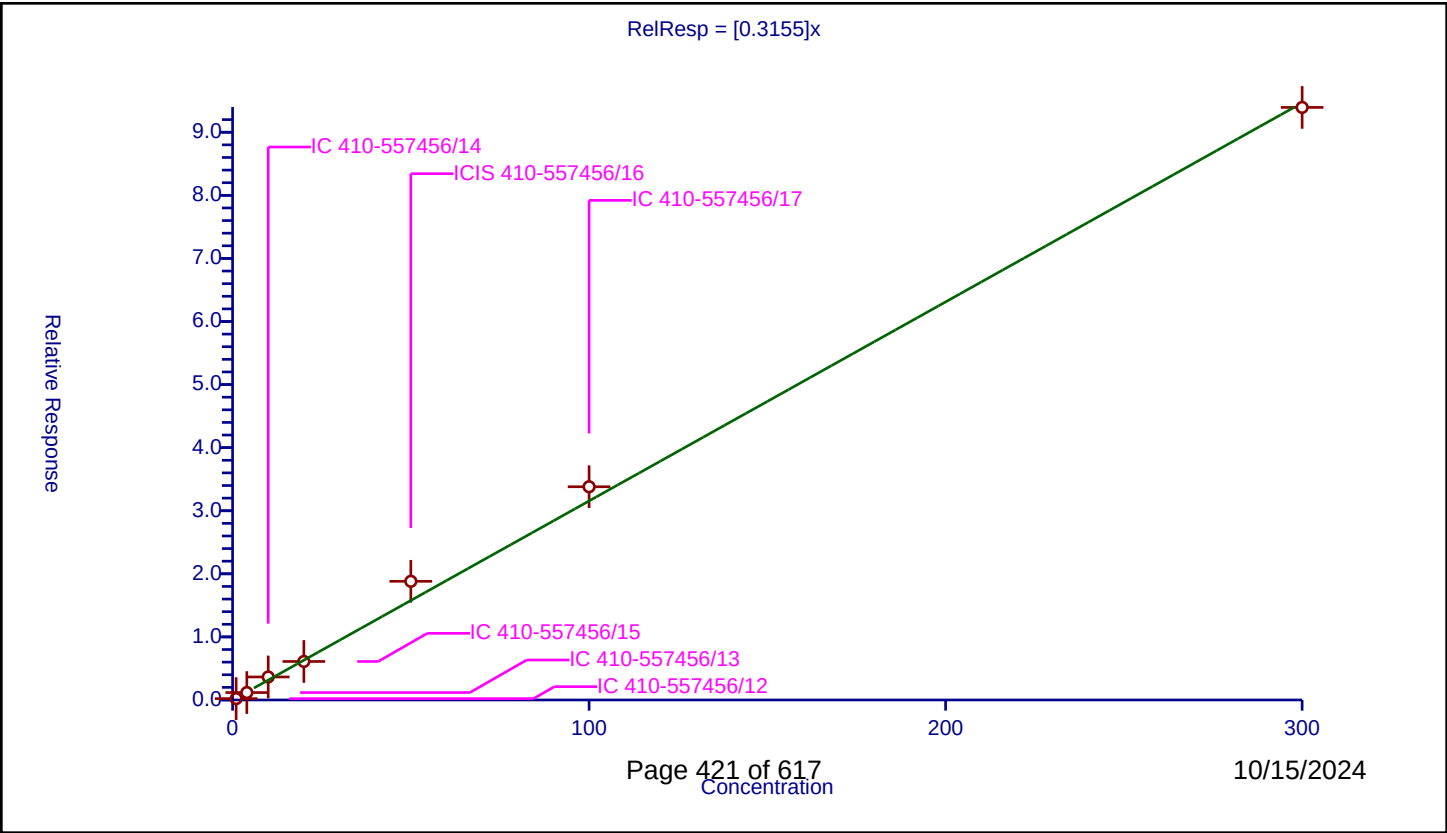
/ Hexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3155
Error Coefficients	

Relative Standard Deviation: 16.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.216682	50.0	1022466.0	0.216682	Y
2	IC 410-557456/13	4.0	1.17658	50.0	998700.0	0.294145	Y
3	IC 410-557456/14	10.0	3.649564	50.0	1066744.0	0.364956	Y
4	IC 410-557456/15	20.0	6.107638	50.0	1064233.0	0.305382	Y
5	ICIS 410-557456/16	50.0	18.81555	50.0	1027456.0	0.376311	Y
6	IC 410-557456/17	100.0	33.805007	50.0	1065567.0	0.33805	Y
7	IC 410-557456/18	300.0	93.936066	50.0	1093292.0	0.31312	Y



Calibration

/ 1,1-Dichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

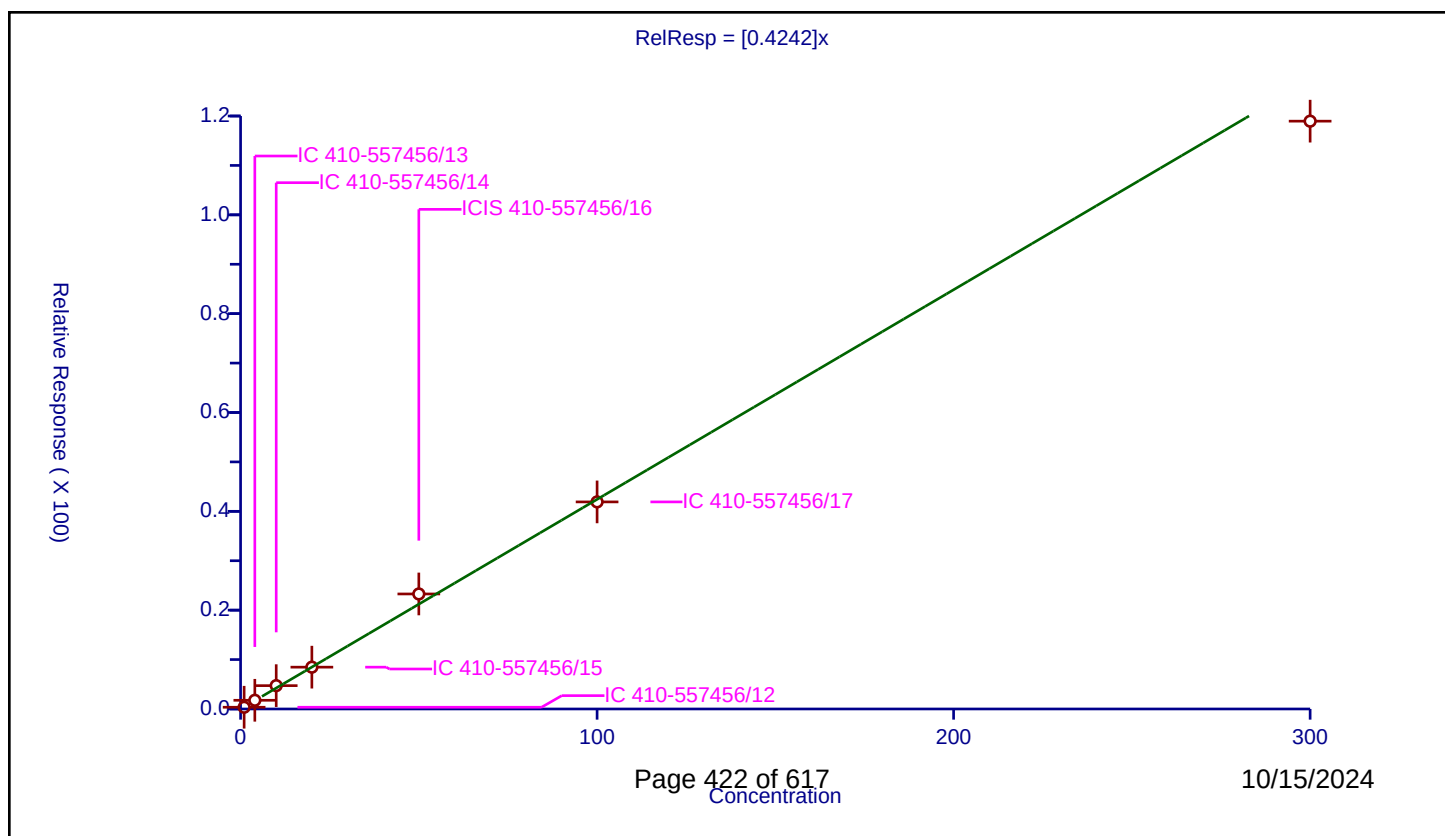
Curve Coefficients

Intercept: 0
Slope: 0.4242

Error Coefficients

Relative Standard Deviation: 9.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.352188	50.0	1022466.0	0.352188	Y
2	IC 410-557456/13	4.0	1.762341	50.0	998700.0	0.440585	Y
3	IC 410-557456/14	10.0	4.725032	50.0	1066744.0	0.472503	Y
4	IC 410-557456/15	20.0	8.463137	50.0	1064233.0	0.423157	Y
5	ICIS 410-557456/16	50.0	23.276131	50.0	1027456.0	0.465523	Y
6	IC 410-557456/17	100.0	41.906797	50.0	1065567.0	0.419068	Y
7	IC 410-557456/18	300.0	118.957058	50.0	1093292.0	0.396524	Y



Calibration

/ Isopropyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

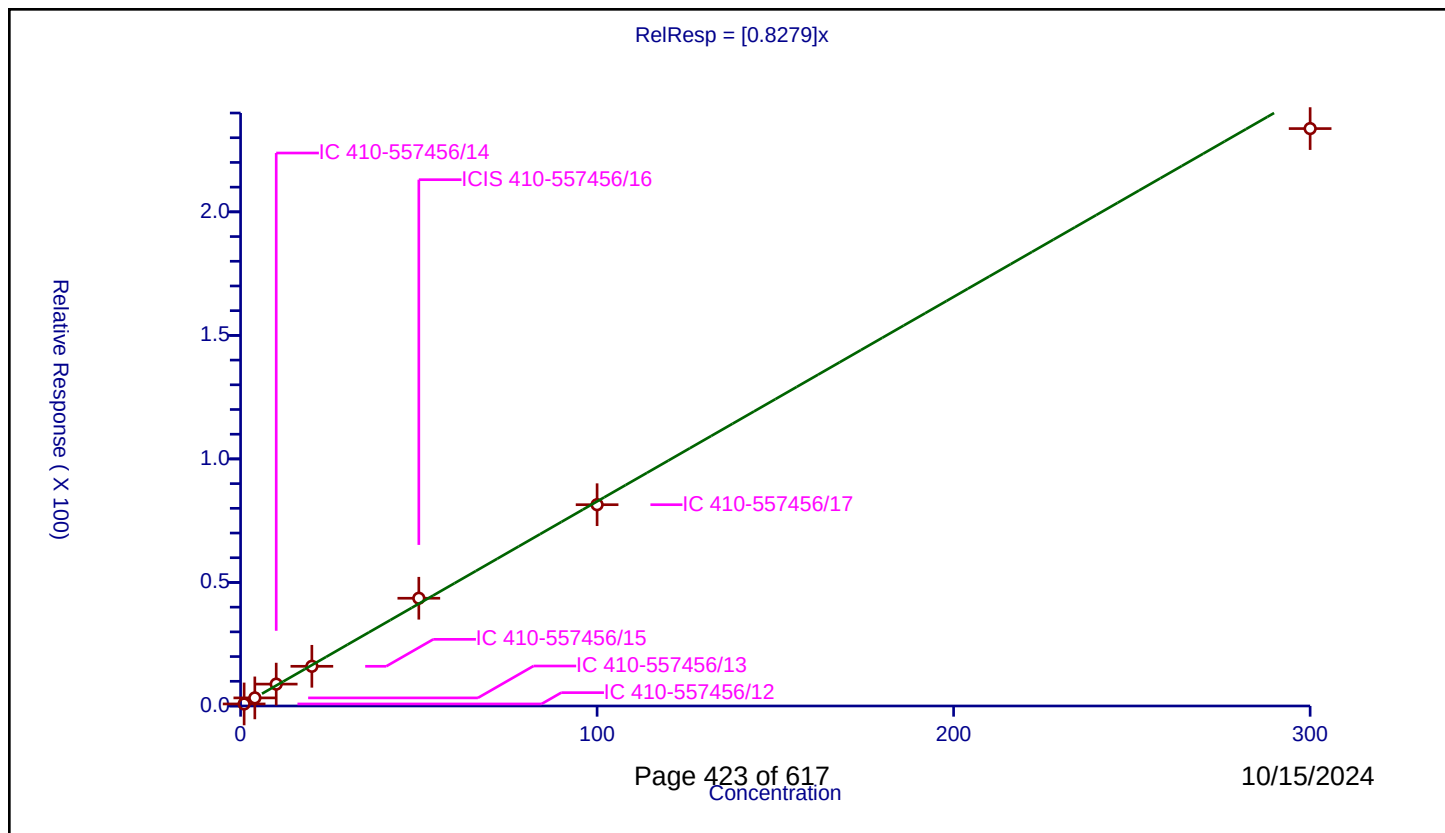
Curve Coefficients

Intercept: 0
Slope: 0.8279

Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.821445	50.0	1022466.0	0.821445	Y
2	IC 410-557456/13	4.0	3.279313	50.0	998700.0	0.819828	Y
3	IC 410-557456/14	10.0	8.85203	50.0	1066744.0	0.885203	Y
4	IC 410-557456/15	20.0	16.060205	50.0	1064233.0	0.80301	Y
5	ICIS 410-557456/16	50.0	43.604203	50.0	1027456.0	0.872084	Y
6	IC 410-557456/17	100.0	81.474323	50.0	1065567.0	0.814743	Y
7	IC 410-557456/18	300.0	233.700558	50.0	1093292.0	0.779002	Y



Calibration

/ 2-Chloro-1,3-butadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

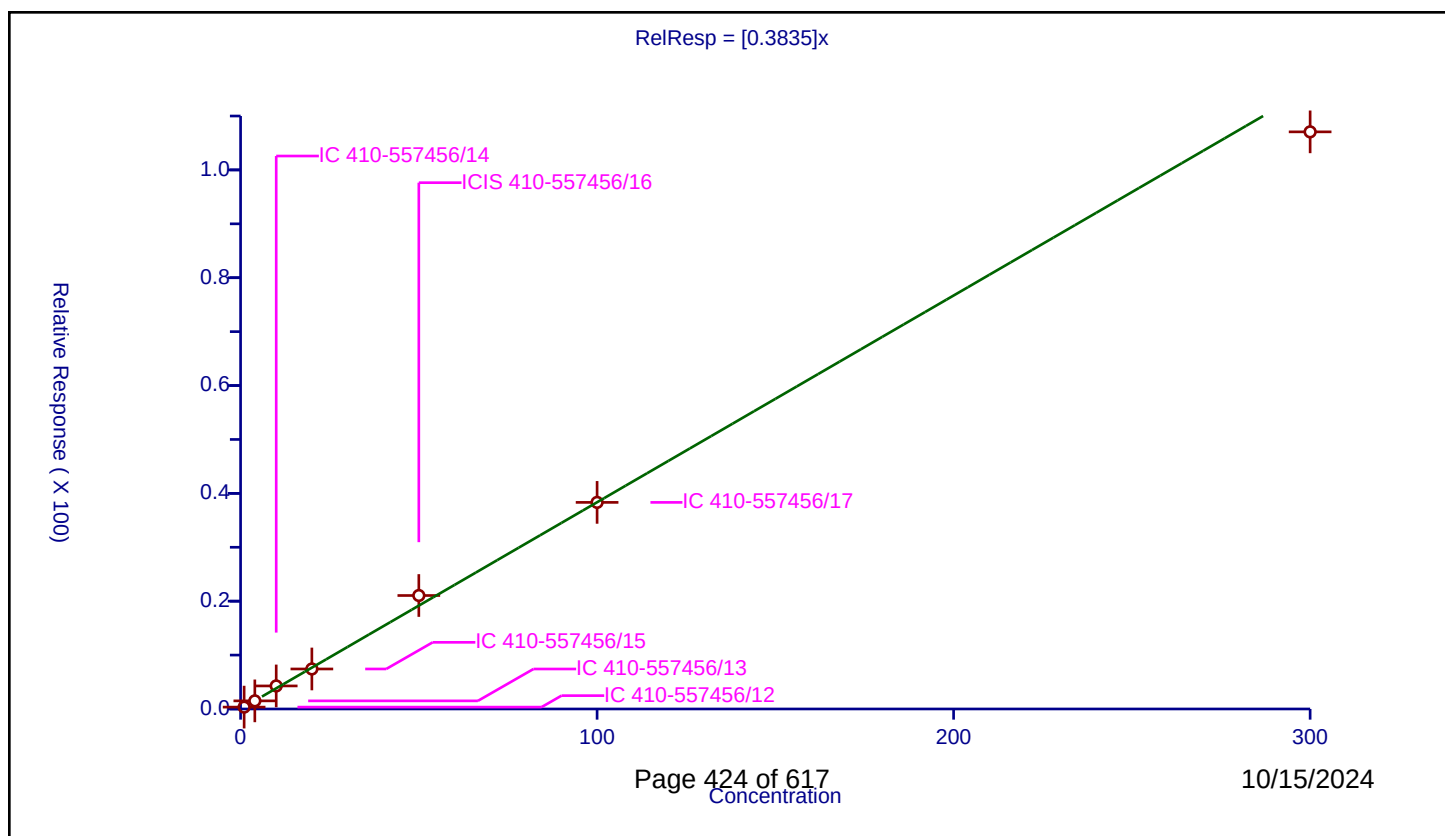
Curve Coefficients

Intercept: 0
Slope: 0.3835

Error Coefficients

Relative Standard Deviation: 7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.347982	50.0	1022466.0	0.347982	Y
2	IC 410-557456/13	4.0	1.506559	50.0	998700.0	0.37664	Y
3	IC 410-557456/14	10.0	4.27783	50.0	1066744.0	0.427783	Y
4	IC 410-557456/15	20.0	7.422576	50.0	1064233.0	0.371129	Y
5	ICIS 410-557456/16	50.0	21.050488	50.0	1027456.0	0.42101	Y
6	IC 410-557456/17	100.0	38.323118	50.0	1065567.0	0.383231	Y
7	IC 410-557456/18	300.0	107.059779	50.0	1093292.0	0.356866	Y



Calibration

/ Tert-butyl ethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

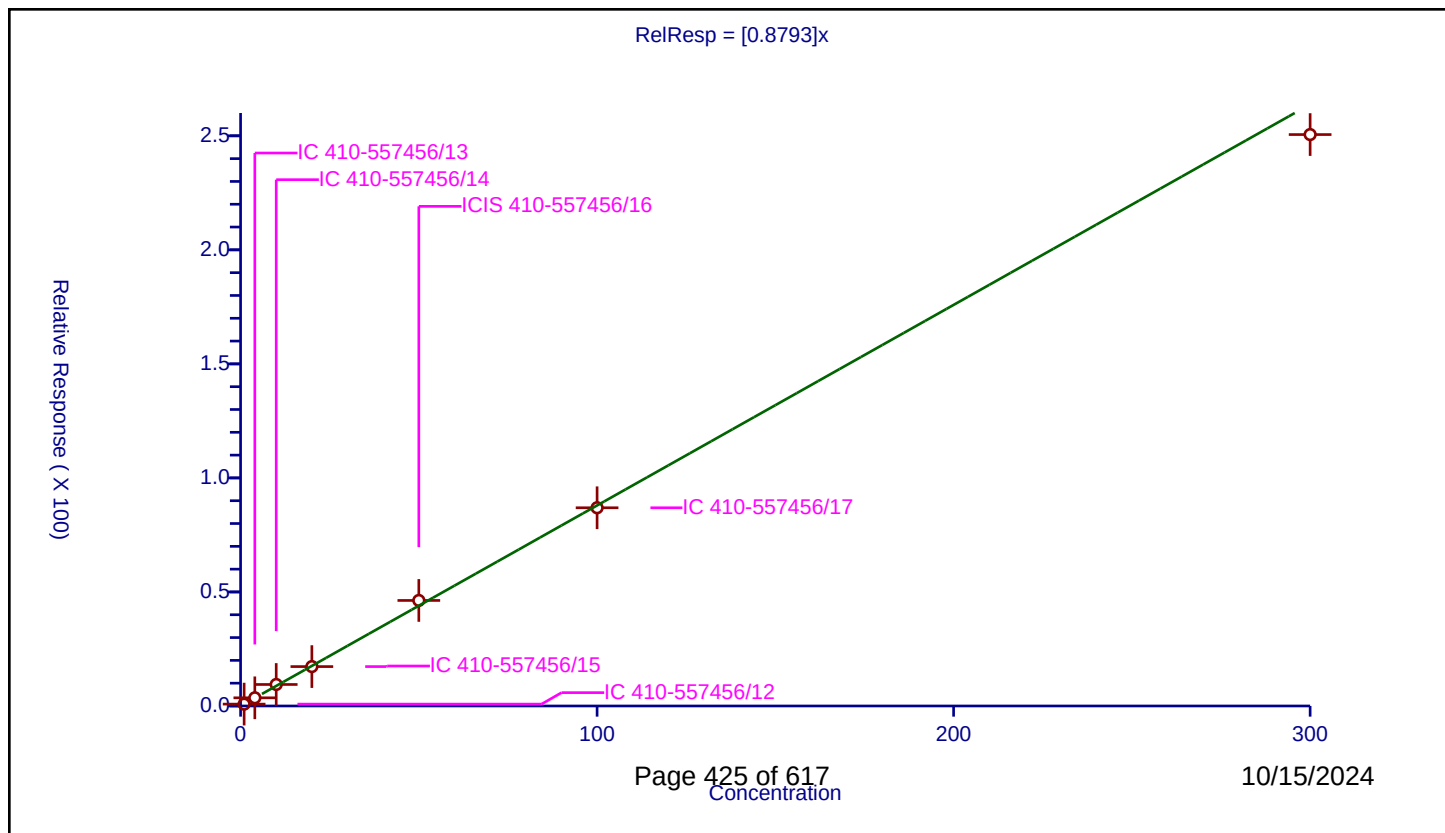
Curve Coefficients

Intercept: 0
Slope: 0.8793

Error Coefficients

Relative Standard Deviation: 5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.821201	50.0	1022466.0	0.821201	Y
2	IC 410-557456/13	4.0	3.589266	50.0	998700.0	0.897317	Y
3	IC 410-557456/14	10.0	9.42902	50.0	1066744.0	0.942902	Y
4	IC 410-557456/15	20.0	17.280191	50.0	1064233.0	0.86401	Y
5	ICIS 410-557456/16	50.0	46.272638	50.0	1027456.0	0.925453	Y
6	IC 410-557456/17	100.0	86.920156	50.0	1065567.0	0.869202	Y
7	IC 410-557456/18	300.0	250.549076	50.0	1093292.0	0.835164	Y



Calibration

/ 2-Butanone (MEK)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

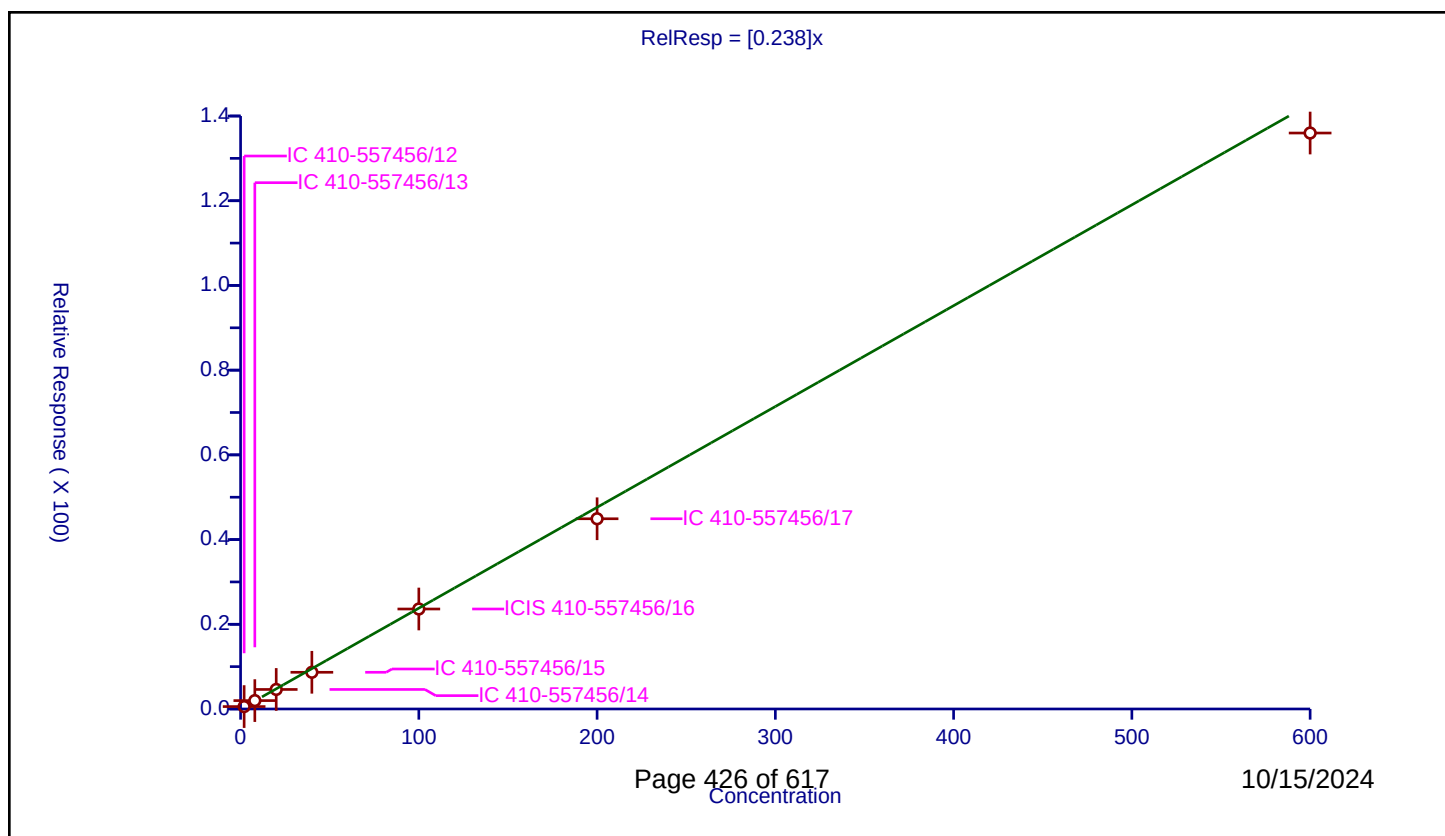
Curve Coefficients

Intercept: 0
Slope: 0.238

Error Coefficients

Relative Standard Deviation: 9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	2.0	0.569065	50.0	1022466.0	0.284533	Y
2	IC 410-557456/13	8.0	1.979423	50.0	998700.0	0.247428	Y
3	IC 410-557456/14	20.0	4.609166	50.0	1066744.0	0.230458	Y
4	IC 410-557456/15	40.0	8.664691	50.0	1064233.0	0.216617	Y
5	ICIS 410-557456/16	100.0	23.607824	50.0	1027456.0	0.236078	Y
6	IC 410-557456/17	200.0	44.913647	50.0	1065567.0	0.224568	Y
7	IC 410-557456/18	600.0	135.984165	50.0	1093292.0	0.22664	Y



Calibration

/ cis-1,2-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

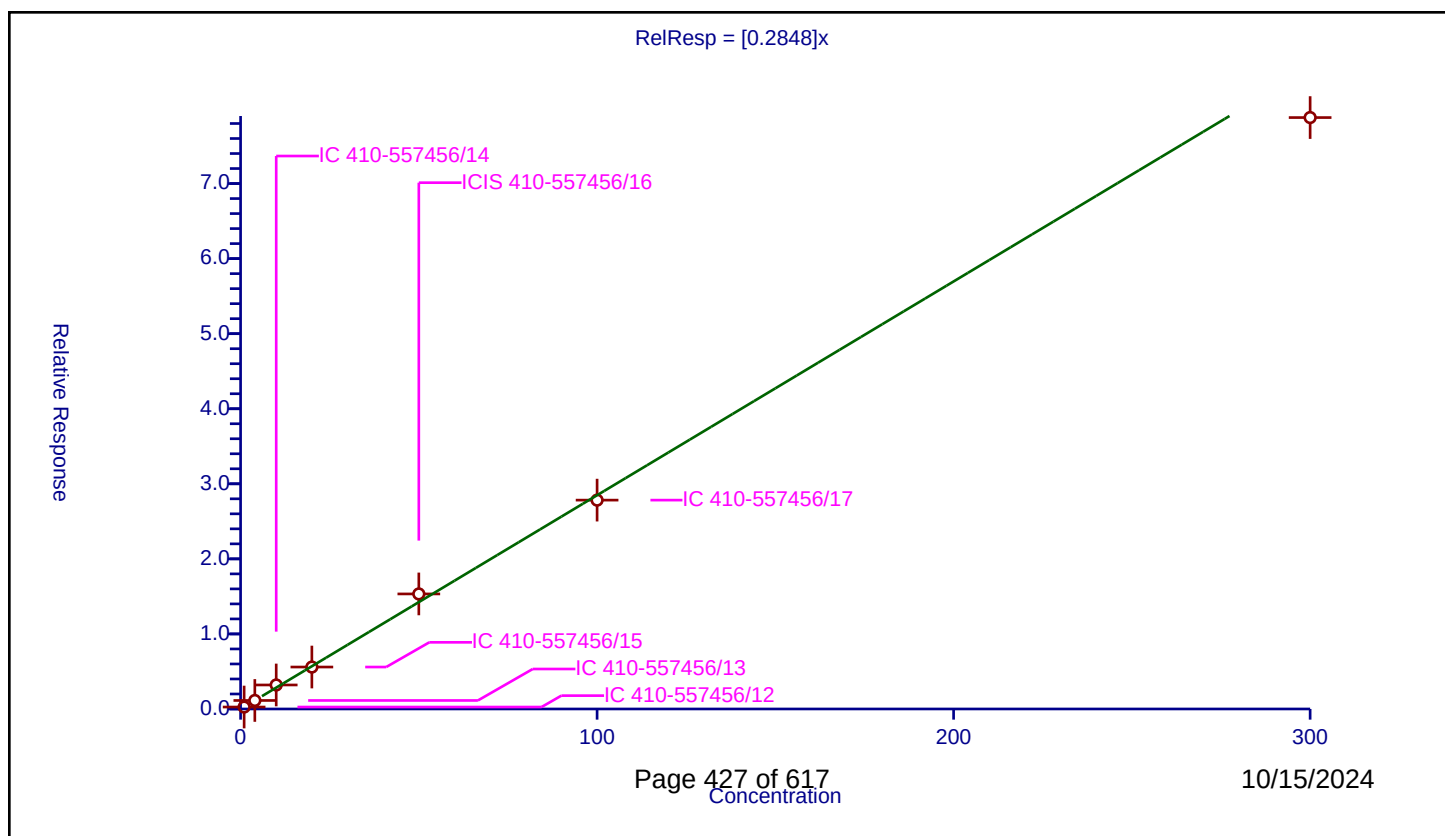
Curve Coefficients

Intercept: 0
Slope: 0.2848

Error Coefficients

Relative Standard Deviation: 7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.262454	50.0	1022466.0	0.262454	Y
2	IC 410-557456/13	4.0	1.136828	50.0	998700.0	0.284207	Y
3	IC 410-557456/14	10.0	3.200627	50.0	1066744.0	0.320063	Y
4	IC 410-557456/15	20.0	5.588391	50.0	1064233.0	0.27942	Y
5	ICIS 410-557456/16	50.0	15.327128	50.0	1027456.0	0.306543	Y
6	IC 410-557456/17	100.0	27.826031	50.0	1065567.0	0.27826	Y
7	IC 410-557456/18	300.0	78.794961	50.0	1093292.0	0.26265	Y



Calibration

/ 2,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

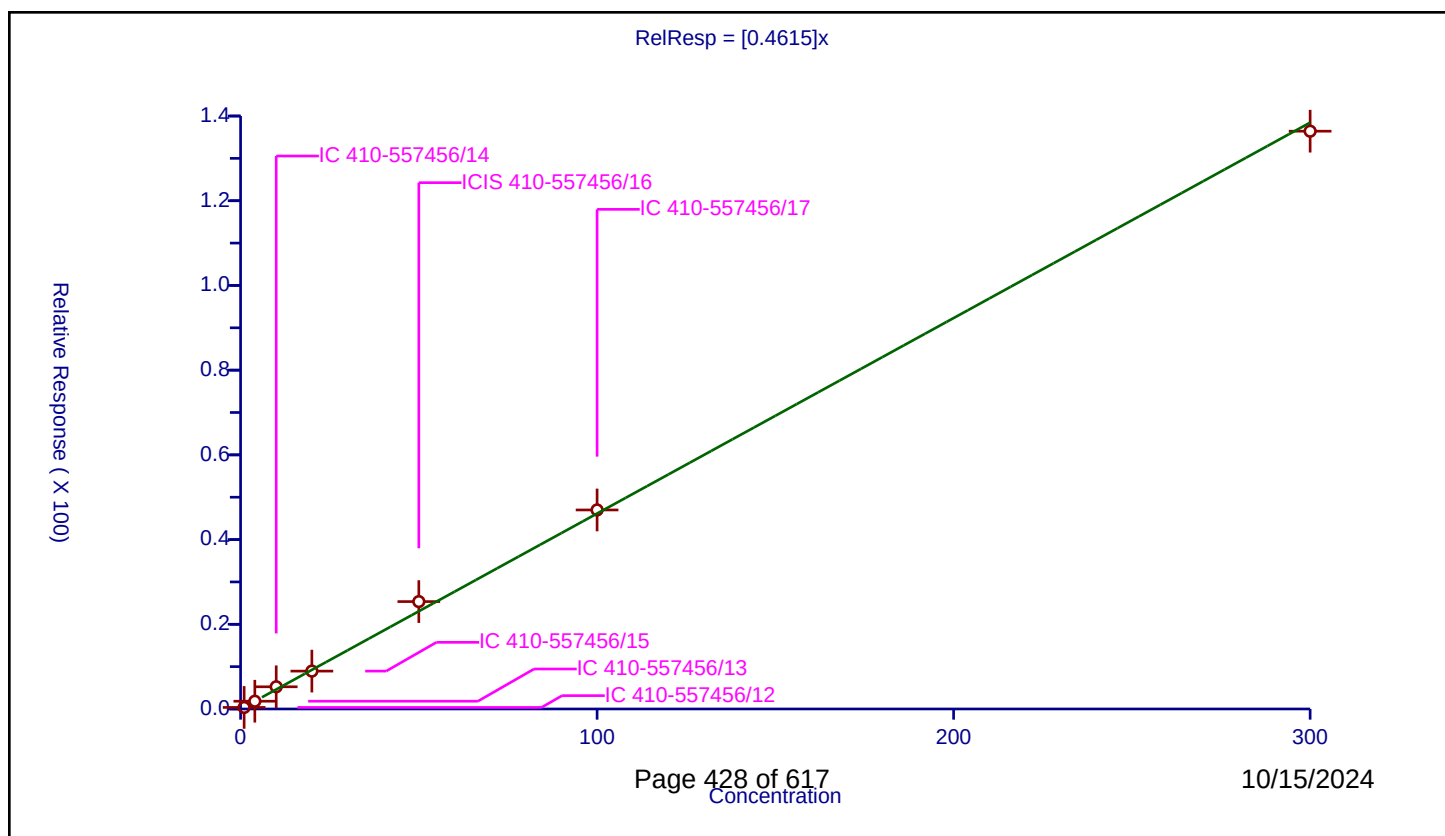
Curve Coefficients

Intercept: 0
Slope: 0.4615

Error Coefficients

Relative Standard Deviation: 10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.367738	50.0	1022466.0	0.367738	Y
2	IC 410-557456/13	4.0	1.837689	50.0	998700.0	0.459422	Y
3	IC 410-557456/14	10.0	5.243245	50.0	1066744.0	0.524324	Y
4	IC 410-557456/15	20.0	8.942872	50.0	1064233.0	0.447144	Y
5	ICIS 410-557456/16	50.0	25.354906	50.0	1027456.0	0.507098	Y
6	IC 410-557456/17	100.0	46.991742	50.0	1065567.0	0.469917	Y
7	IC 410-557456/18	300.0	136.420142	50.0	1093292.0	0.454734	Y



Calibration

/ Propionitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

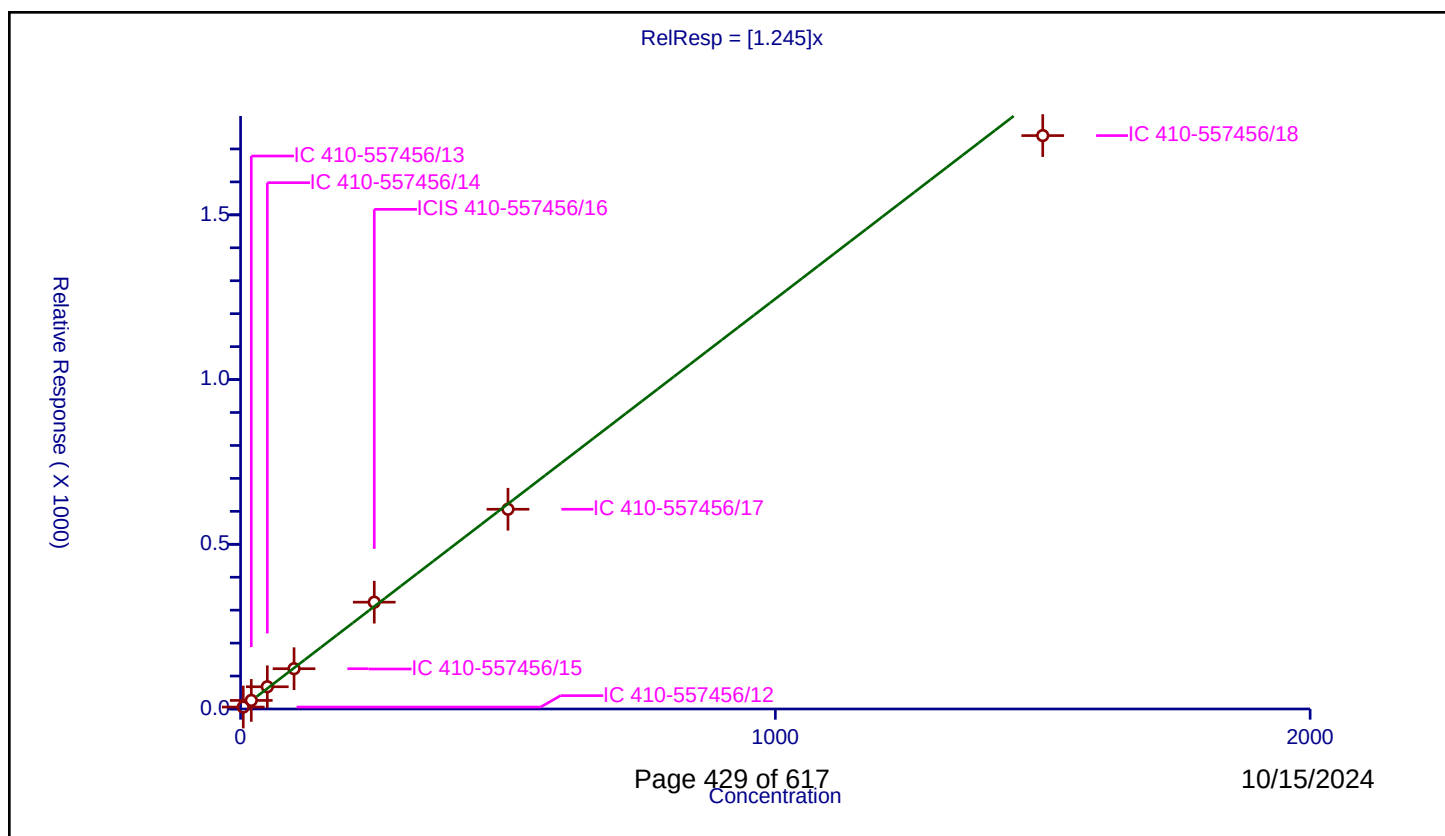
Curve Coefficients

Intercept: 0
Slope: 1.245

Error Coefficients

Relative Standard Deviation: 5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	5.0	5.84741	250.0	325657.0	1.169482	Y
2	IC 410-557456/13	20.0	26.062597	250.0	311548.0	1.30313	Y
3	IC 410-557456/14	50.0	67.4821	250.0	339390.0	1.349642	Y
4	IC 410-557456/15	100.0	122.288156	250.0	326761.0	1.222882	Y
5	ICIS 410-557456/16	250.0	324.270015	250.0	331685.0	1.29708	Y
6	IC 410-557456/17	500.0	606.37161	250.0	356519.0	1.212743	Y
7	IC 410-557456/18	1500.0	1740.607654	250.0	370754.0	1.160405	Y



Calibration

/ Methyl acrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

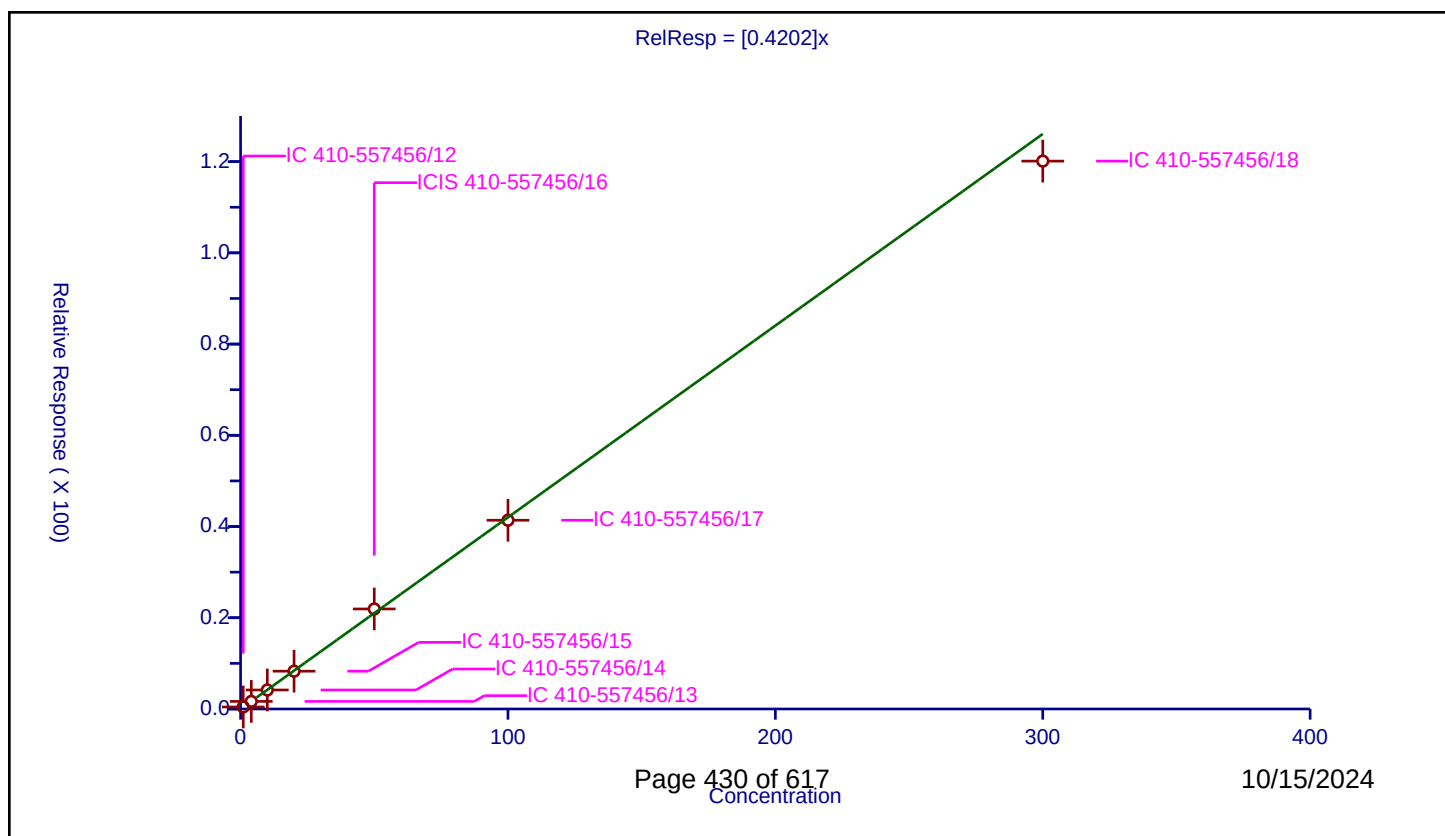
Curve Coefficients

Intercept: 0
Slope: 0.4202

Error Coefficients

Relative Standard Deviation: 3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.000048	0.441775	50.0	1022466.0	0.441754	Y
2	IC 410-557456/13	4.000191	1.663863	50.0	998700.0	0.415946	Y
3	IC 410-557456/14	10.000478	4.166745	50.0	1066744.0	0.416655	Y
4	IC 410-557456/15	20.000956	8.286249	50.0	1064233.0	0.414293	Y
5	ICIS 410-557456/16	50.00239	21.929796	50.0	1027456.0	0.438575	Y
6	IC 410-557456/17	100.00478	41.378628	50.0	1065567.0	0.413766	Y
7	IC 410-557456/18	300.01434	120.114023	50.0	1093292.0	0.400361	Y



Calibration

/ Methacrylonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

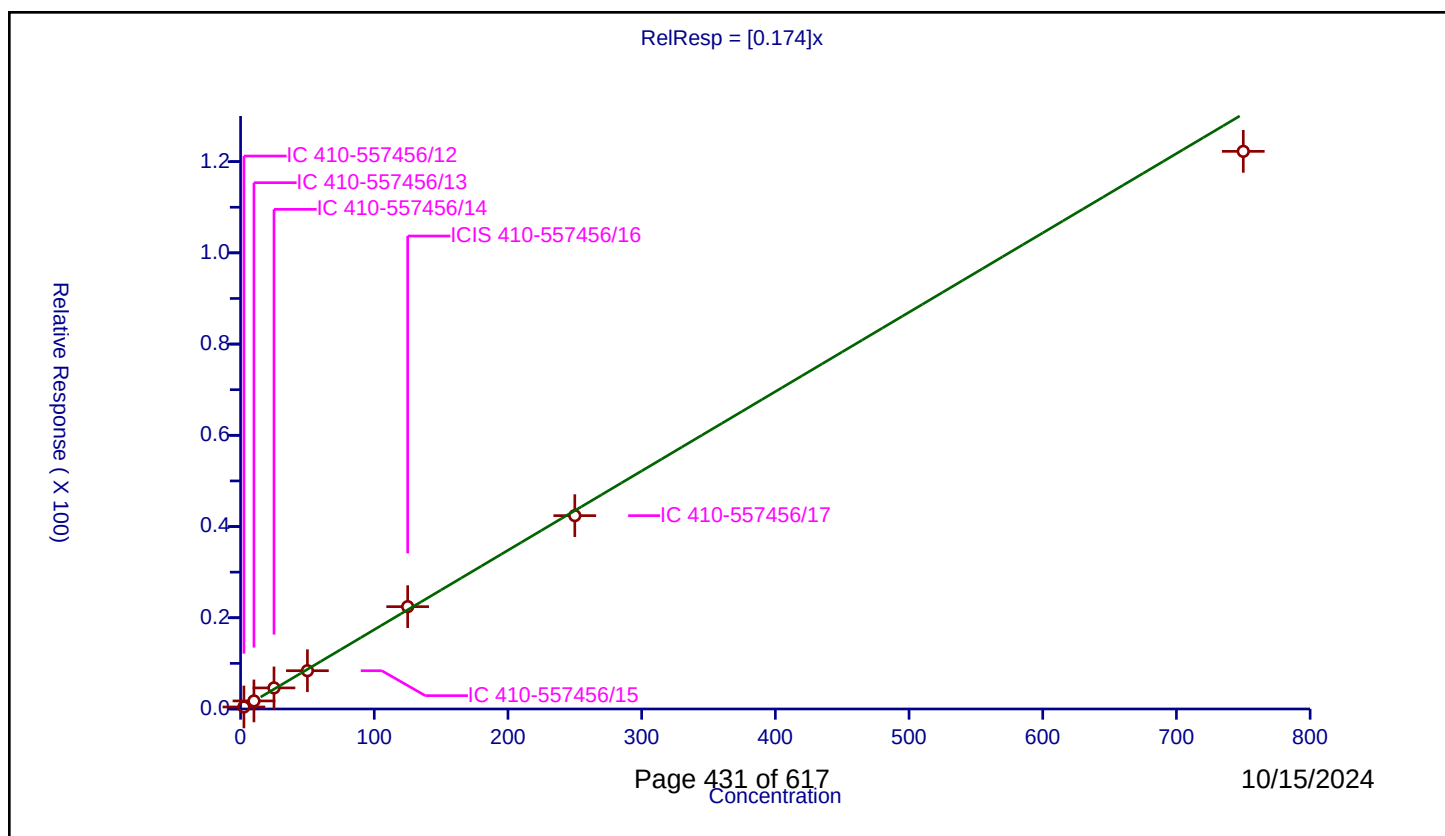
Curve Coefficients

Intercept: 0
Slope: 0.174

Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	2.5	0.43977	50.0	1022466.0	0.175908	Y
2	IC 410-557456/13	10.0	1.770652	50.0	998700.0	0.177065	Y
3	IC 410-557456/14	25.0	4.620837	50.0	1066744.0	0.184833	Y
4	IC 410-557456/15	50.0	8.391255	50.0	1064233.0	0.167825	Y
5	ICIS 410-557456/16	125.0	22.435608	50.0	1027456.0	0.179485	Y
6	IC 410-557456/17	250.0	42.387715	50.0	1065567.0	0.169551	Y
7	IC 410-557456/18	750.0	122.251009	50.0	1093292.0	0.163001	Y



Calibration

/ Chlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

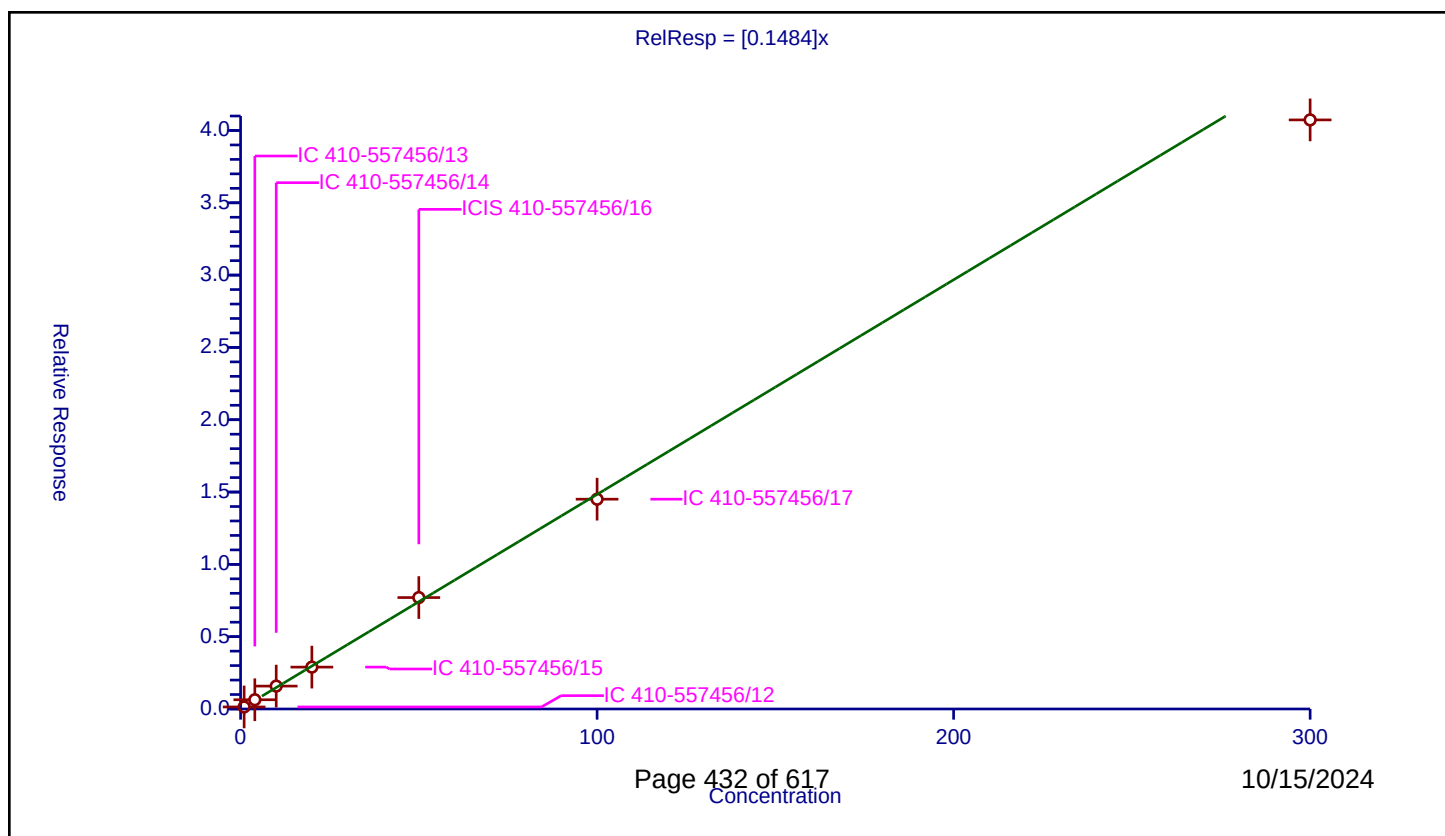
Curve Coefficients

Intercept: 0
Slope: 0.1484

Error Coefficients

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.141032	50.0	1022466.0	0.141032	Y
2	IC 410-557456/13	4.0	0.63853	50.0	998700.0	0.159633	Y
3	IC 410-557456/14	10.0	1.583088	50.0	1066744.0	0.158309	Y
4	IC 410-557456/15	20.0	2.894996	50.0	1064233.0	0.14475	Y
5	ICIS 410-557456/16	50.0	7.703688	50.0	1027456.0	0.154074	Y
6	IC 410-557456/17	100.0	14.505939	50.0	1065567.0	0.145059	Y
7	IC 410-557456/18	300.0	40.730884	50.0	1093292.0	0.13577	Y



Calibration

/ Tetrahydrofuran

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

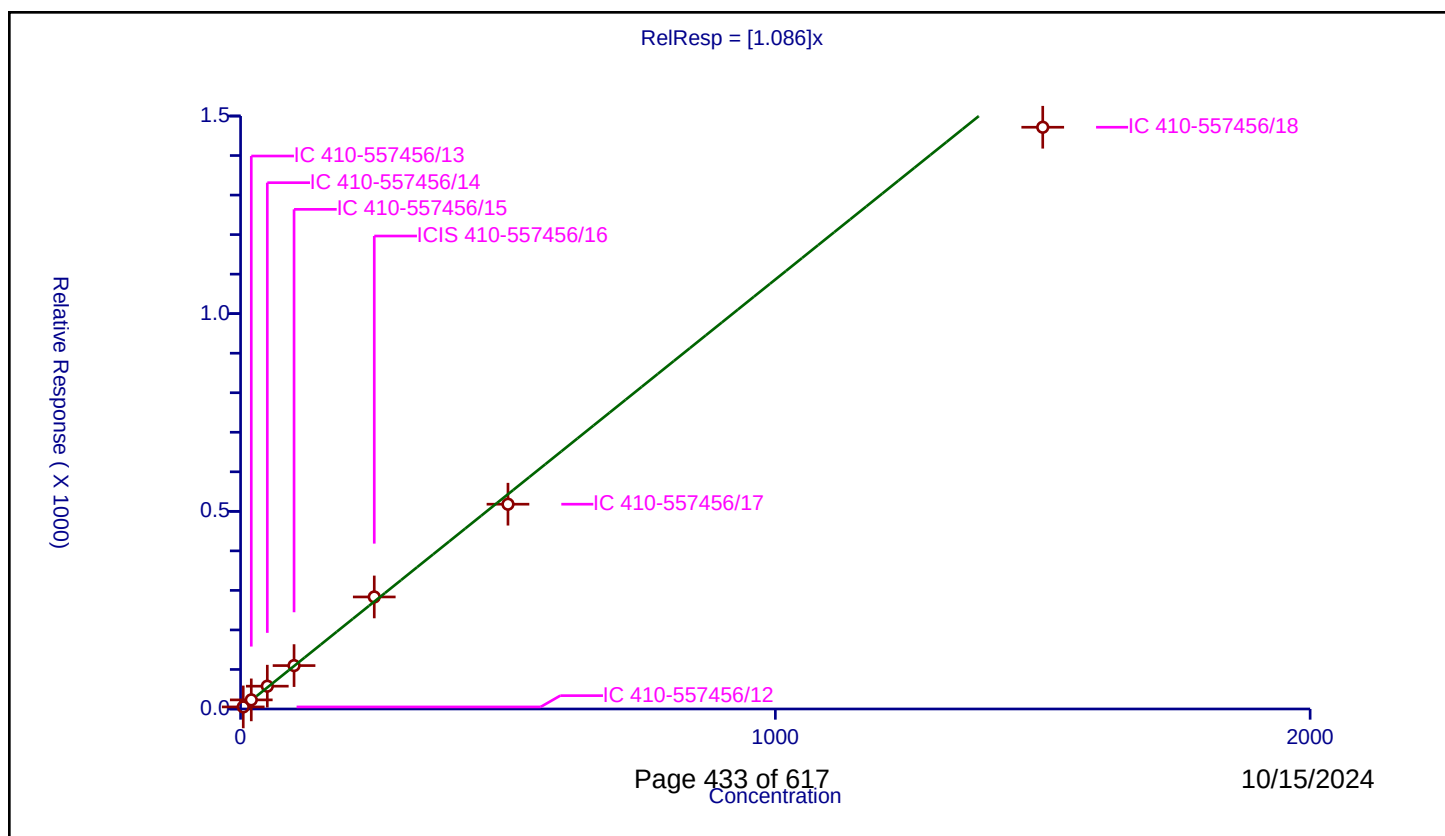
Curve Coefficients

Intercept: 0
Slope: 1.086

Error Coefficients

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	5.0	5.249388	250.0	325657.0	1.049878	Y
2	IC 410-557456/13	20.0	23.055837	250.0	311548.0	1.152792	Y
3	IC 410-557456/14	50.0	57.684375	250.0	339390.0	1.153687	Y
4	IC 410-557456/15	100.0	109.816502	250.0	326761.0	1.098165	Y
5	ICIS 410-557456/16	250.0	283.451166	250.0	331685.0	1.133805	Y
6	IC 410-557456/17	500.0	518.031998	250.0	356519.0	1.036064	Y
7	IC 410-557456/18	1500.0	1471.569423	250.0	370754.0	0.981046	Y



Calibration

/ Chloroform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

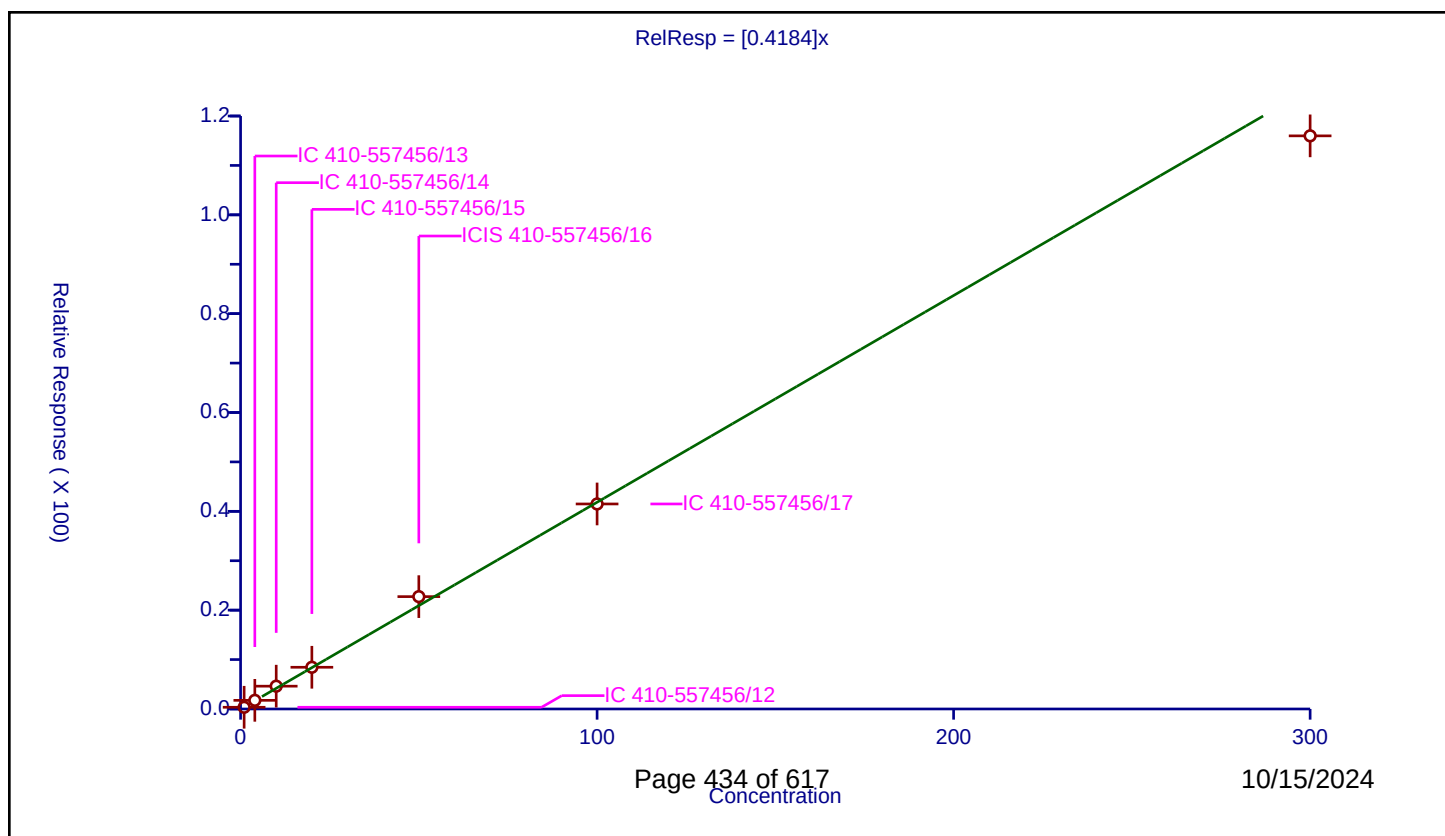
Curve Coefficients

Intercept: 0
Slope: 0.4184

Error Coefficients

Relative Standard Deviation: 9.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.350574	50.0	1022466.0	0.350574	Y
2	IC 410-557456/13	4.0	1.751627	50.0	998700.0	0.437907	Y
3	IC 410-557456/14	10.0	4.616993	50.0	1066744.0	0.461699	Y
4	IC 410-557456/15	20.0	8.443311	50.0	1064233.0	0.422166	Y
5	ICIS 410-557456/16	50.0	22.739709	50.0	1027456.0	0.454794	Y
6	IC 410-557456/17	100.0	41.490024	50.0	1065567.0	0.4149	Y
7	IC 410-557456/18	300.0	115.985528	50.0	1093292.0	0.386618	Y



Calibration

/ Dibromofluoromethane (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

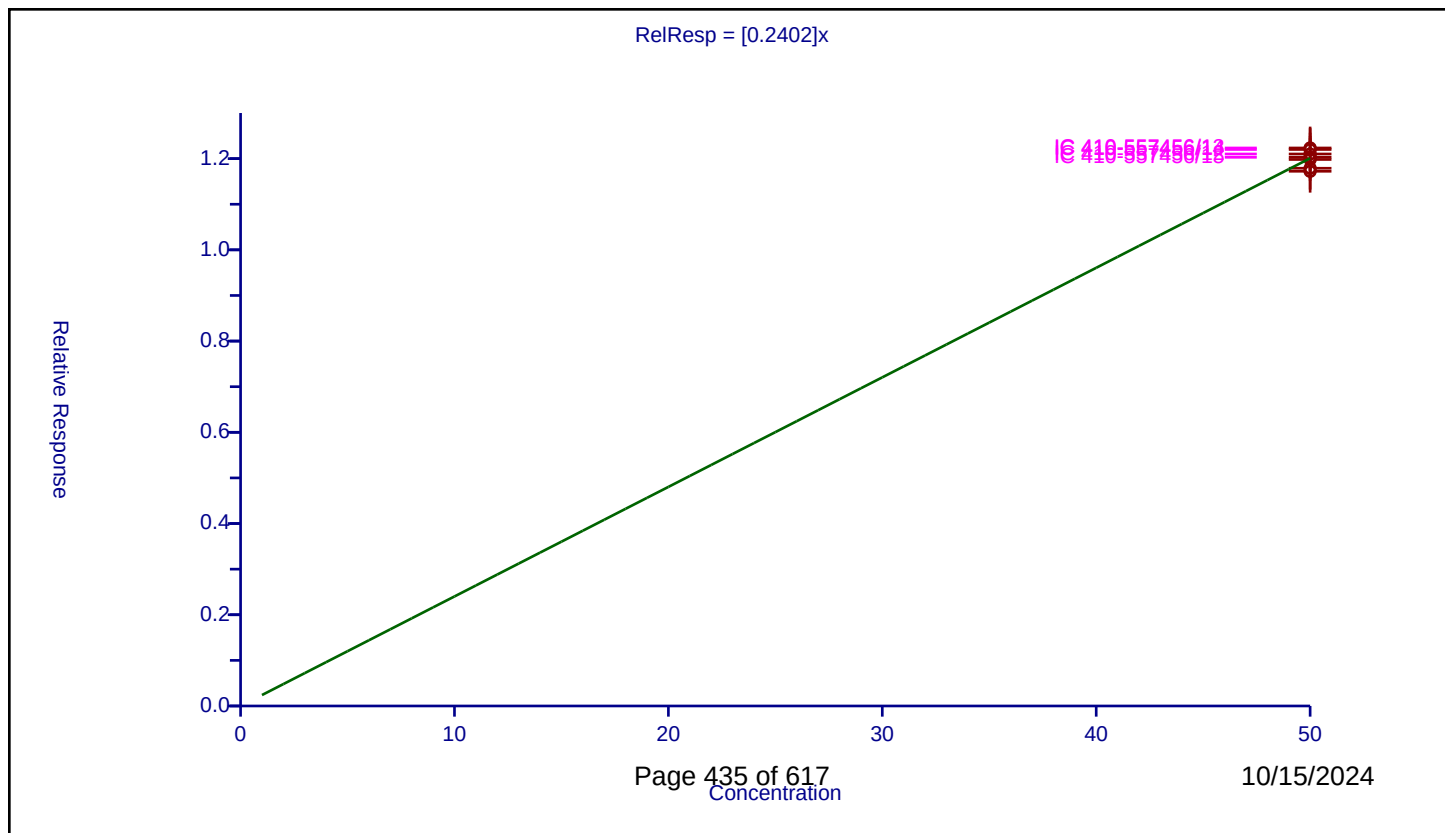
Curve Coefficients

Intercept: 0
 Slope: 0.2402

Error Coefficients

Relative Standard Deviation: 1.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	50.0	12.101674	50.0	1022466.0	0.242033	Y
2	IC 410-557456/13	50.0	12.233604	50.0	998700.0	0.244672	Y
3	IC 410-557456/14	50.0	12.199975	50.0	1066744.0	0.243999	Y
4	IC 410-557456/15	50.0	12.02871	50.0	1064233.0	0.240574	Y
5	ICIS 410-557456/16	50.0	11.980951	50.0	1027456.0	0.239619	Y
6	IC 410-557456/17	50.0	11.789263	50.0	1065567.0	0.235785	Y
7	IC 410-557456/18	50.0	11.722532	50.0	1093292.0	0.234451	Y



Calibration

/ 1,1,1-Trichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

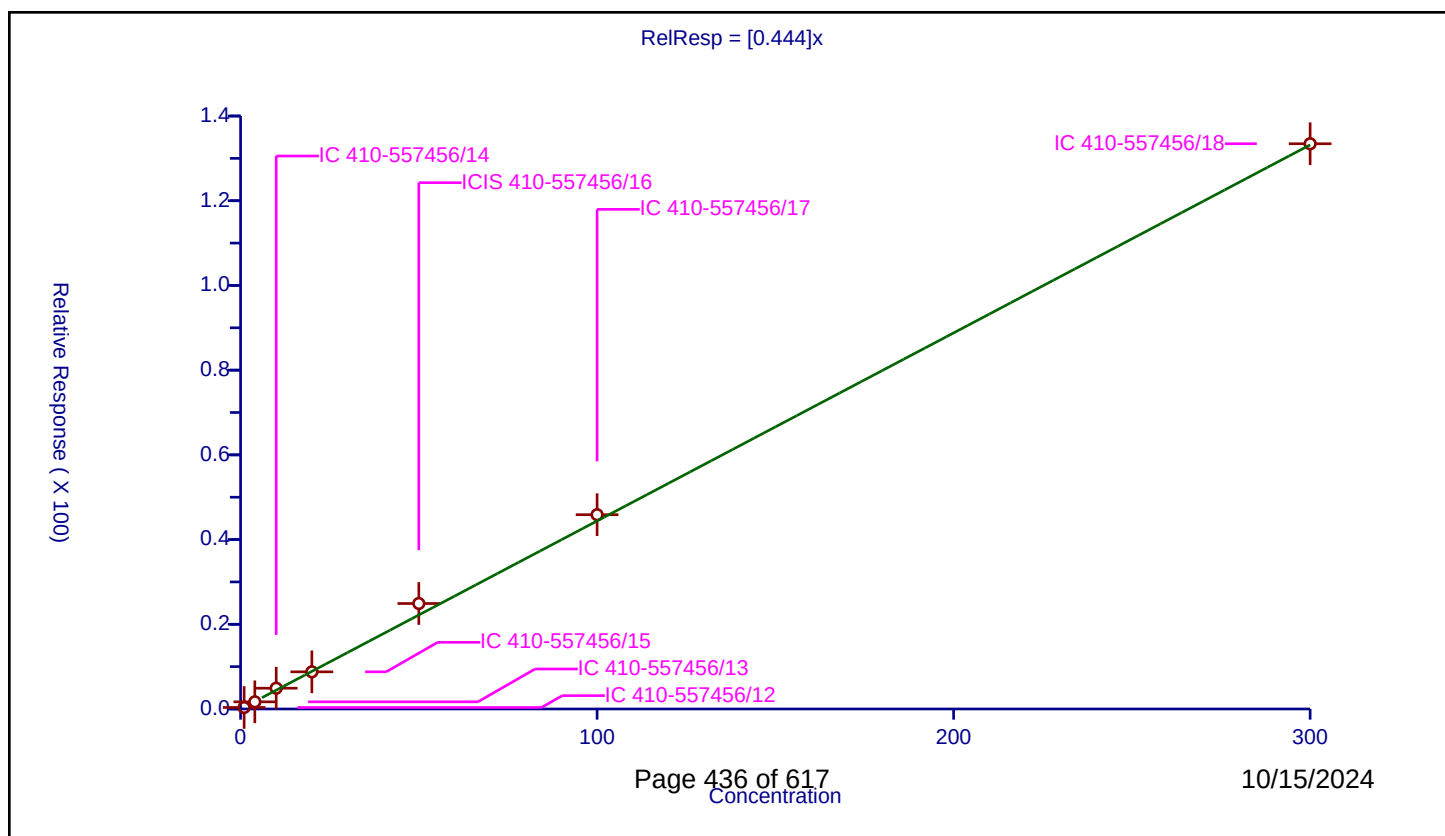
Curve Coefficients

Intercept: 0
Slope: 0.444

Error Coefficients

Relative Standard Deviation: 10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.353704	50.0	1022466.0	0.353704	Y
2	IC 410-557456/13	4.0	1.691799	50.0	998700.0	0.42295	Y
3	IC 410-557456/14	10.0	4.906988	50.0	1066744.0	0.490699	Y
4	IC 410-557456/15	20.0	8.774159	50.0	1064233.0	0.438708	Y
5	ICIS 410-557456/16	50.0	24.905446	50.0	1027456.0	0.498109	Y
6	IC 410-557456/17	100.0	45.867224	50.0	1065567.0	0.458672	Y
7	IC 410-557456/18	300.0	133.451539	50.0	1093292.0	0.444838	Y



Calibration

/ Cyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

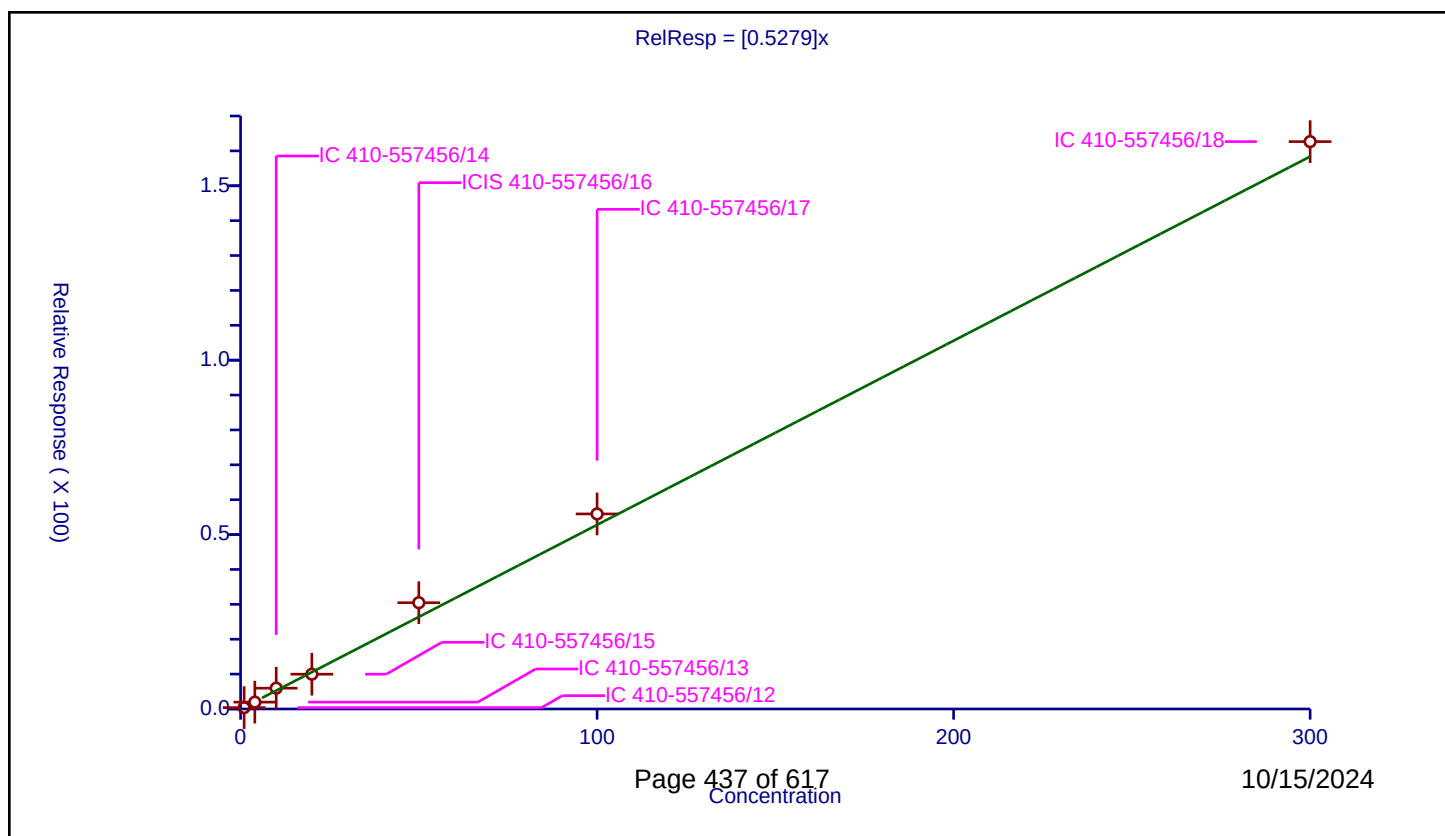
Curve Coefficients

Intercept: 0
Slope: 0.5279

Error Coefficients

Relative Standard Deviation: 13.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.395906	50.0	1022466.0	0.395906	Y
2	IC 410-557456/13	4.0	1.971263	50.0	998700.0	0.492816	Y
3	IC 410-557456/14	10.0	5.970458	50.0	1066744.0	0.597046	Y
4	IC 410-557456/15	20.0	9.974507	50.0	1064233.0	0.498725	Y
5	ICIS 410-557456/16	50.0	30.47167	50.0	1027456.0	0.609433	Y
6	IC 410-557456/17	100.0	55.921636	50.0	1065567.0	0.559216	Y
7	IC 410-557456/18	300.0	162.660662	50.0	1093292.0	0.542202	Y



Calibration

/ Carbon tetrachloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

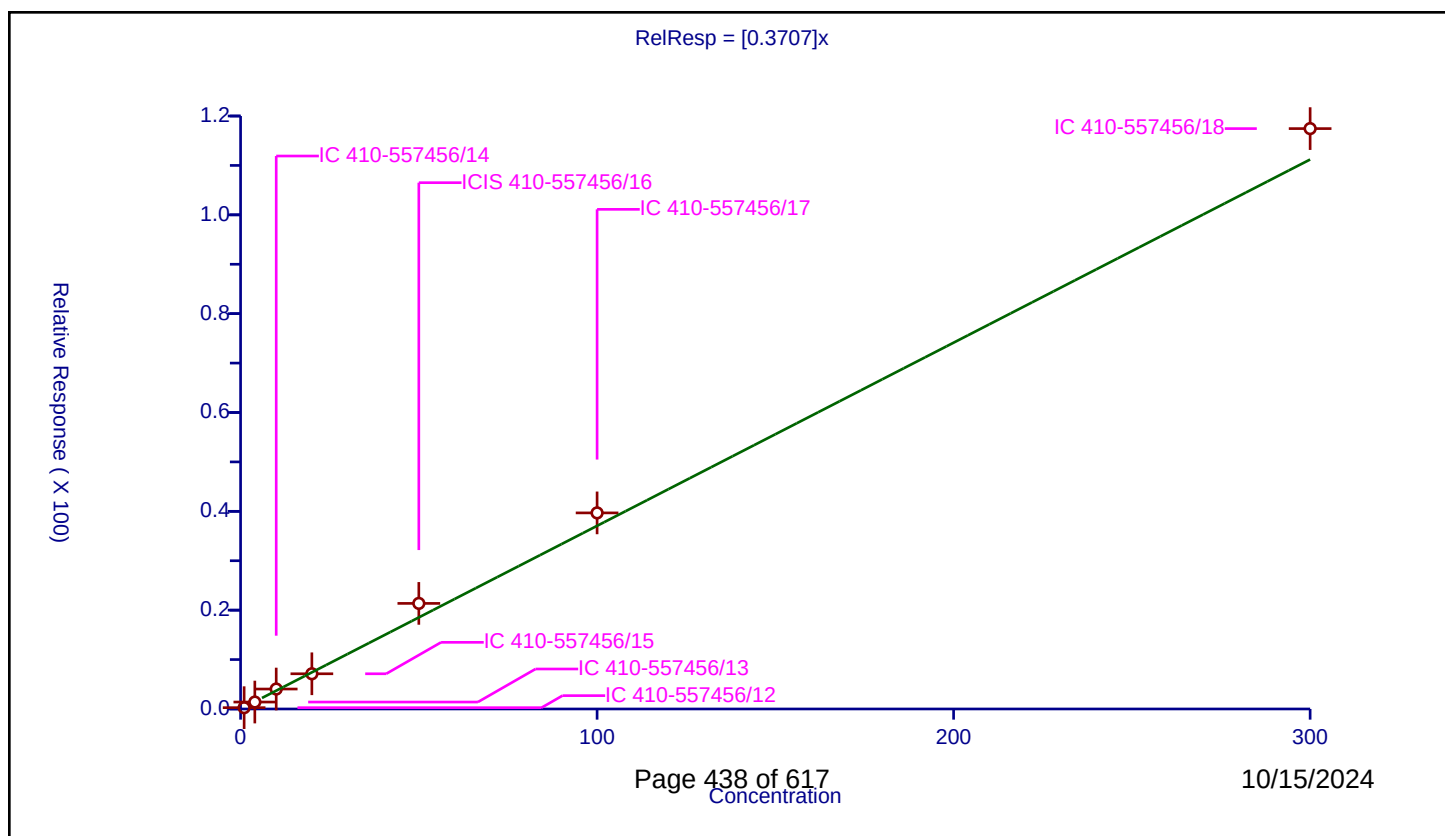
Curve Coefficients

Intercept: 0
Slope: 0.3707

Error Coefficients

Relative Standard Deviation: 14.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.267295	50.0	1022466.0	0.267295	Y
2	IC 410-557456/13	4.0	1.406028	50.0	998700.0	0.351507	Y
3	IC 410-557456/14	10.0	4.038598	50.0	1066744.0	0.40386	Y
4	IC 410-557456/15	20.0	7.123863	50.0	1064233.0	0.356193	Y
5	ICIS 410-557456/16	50.0	21.368312	50.0	1027456.0	0.427366	Y
6	IC 410-557456/17	100.0	39.684037	50.0	1065567.0	0.39684	Y
7	IC 410-557456/18	300.0	117.455309	50.0	1093292.0	0.391518	Y



Calibration

/ 1,1-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

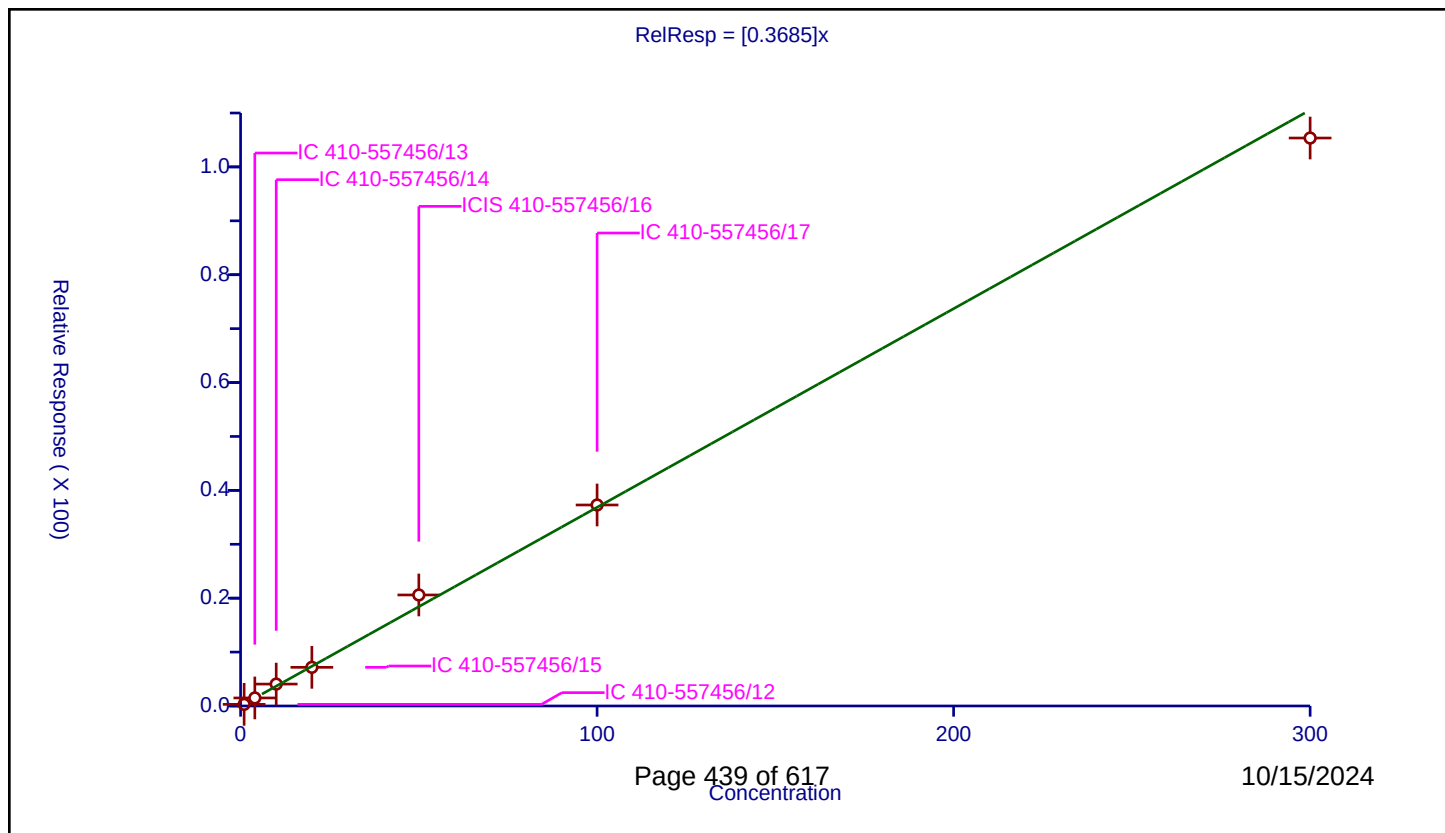
Curve Coefficients

Intercept: 0
Slope: 0.3685

Error Coefficients

Relative Standard Deviation: 9.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.305878	50.0	1022466.0	0.305878	Y
2	IC 410-557456/13	4.0	1.490388	50.0	998700.0	0.372597	Y
3	IC 410-557456/14	10.0	4.06508	50.0	1066744.0	0.406508	Y
4	IC 410-557456/15	20.0	7.172255	50.0	1064233.0	0.358613	Y
5	ICIS 410-557456/16	50.0	20.593729	50.0	1027456.0	0.411875	Y
6	IC 410-557456/17	100.0	37.286909	50.0	1065567.0	0.372869	Y
7	IC 410-557456/18	300.0	105.359639	50.0	1093292.0	0.351199	Y



Calibration

/ Isobutyl alcohol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

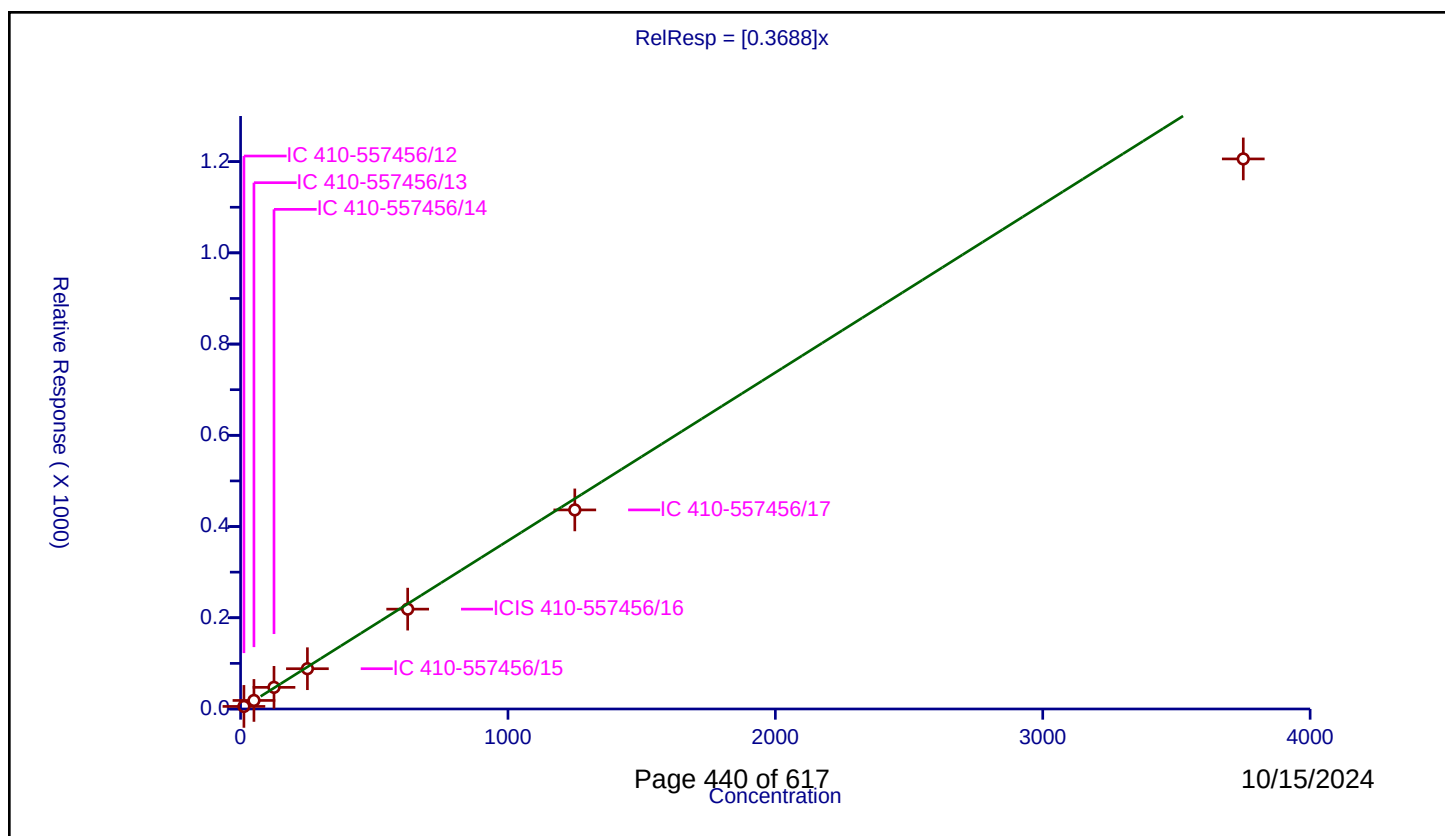
Curve Coefficients

Intercept: 0
Slope: 0.3688

Error Coefficients

Relative Standard Deviation: 11.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	12.5	5.667005	250.0	325657.0	0.45336	Y
2	IC 410-557456/13	50.0	18.718624	250.0	311548.0	0.374372	Y
3	IC 410-557456/14	125.0	47.450573	250.0	339390.0	0.379605	Y
4	IC 410-557456/15	250.0	88.326789	250.0	326761.0	0.353307	Y
5	ICIS 410-557456/16	625.0	218.941164	250.0	331685.0	0.350306	Y
6	IC 410-557456/17	1250.0	436.445182	250.0	356519.0	0.349156	Y
7	IC 410-557456/18	3750.0	1205.945182	250.0	370754.0	0.321585	Y



Calibration

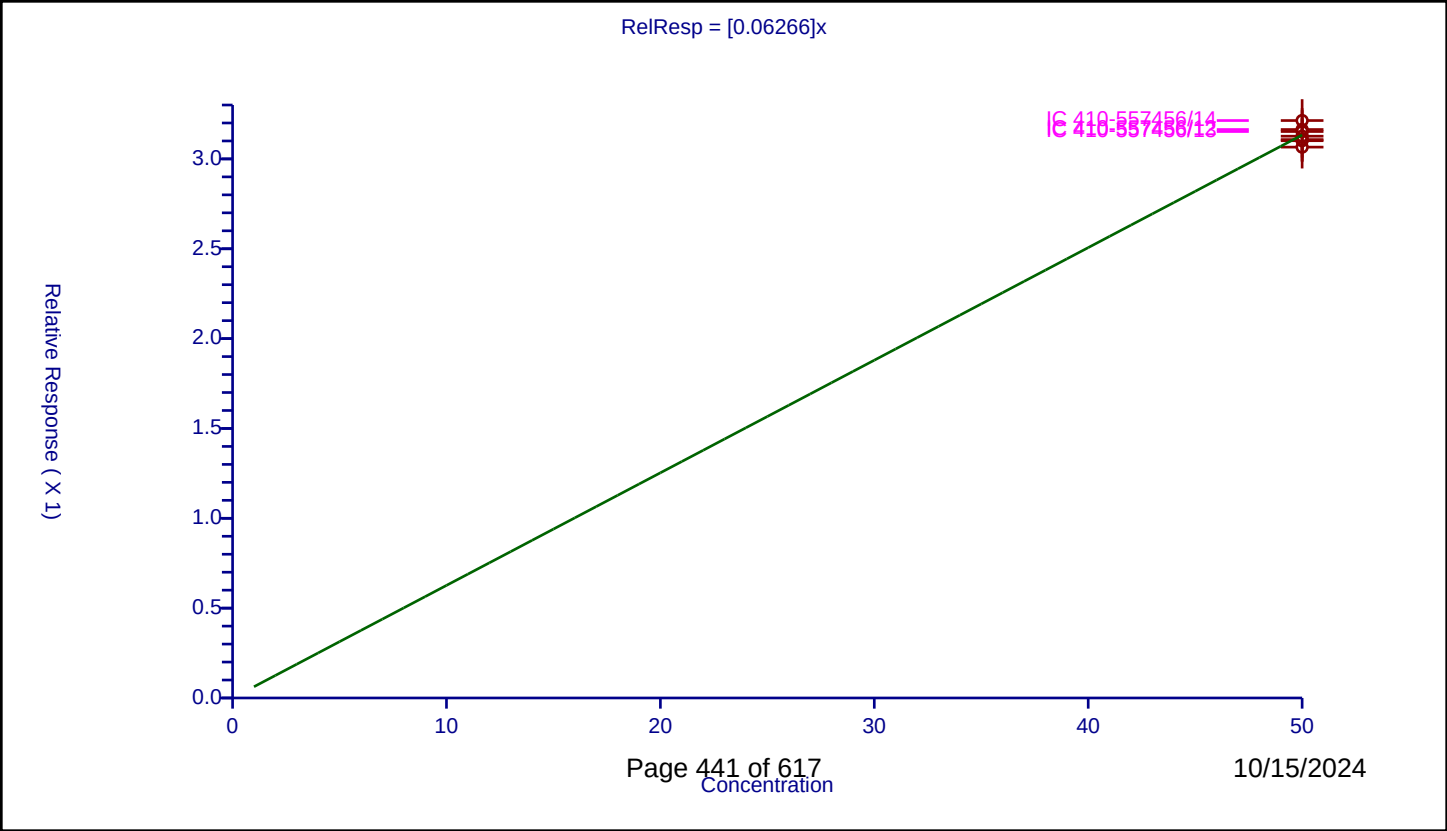
/ 1,2-Dichloroethane-d4 (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.06266

Error Coefficients	
Relative Standard Deviation:	1.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	50.0	3.163577	50.0	1022466.0	0.063272	Y
2	IC 410-557456/13	50.0	3.152498	50.0	998700.0	0.06305	Y
3	IC 410-557456/14	50.0	3.213564	50.0	1066744.0	0.064271	Y
4	IC 410-557456/15	50.0	3.065635	50.0	1064233.0	0.061313	Y
5	ICIS 410-557456/16	50.0	3.101301	50.0	1027456.0	0.062026	Y
6	IC 410-557456/17	50.0	3.107688	50.0	1065567.0	0.062154	Y
7	IC 410-557456/18	50.0	3.126521	50.0	1093292.0	0.06253	Y



Calibration

/ Benzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

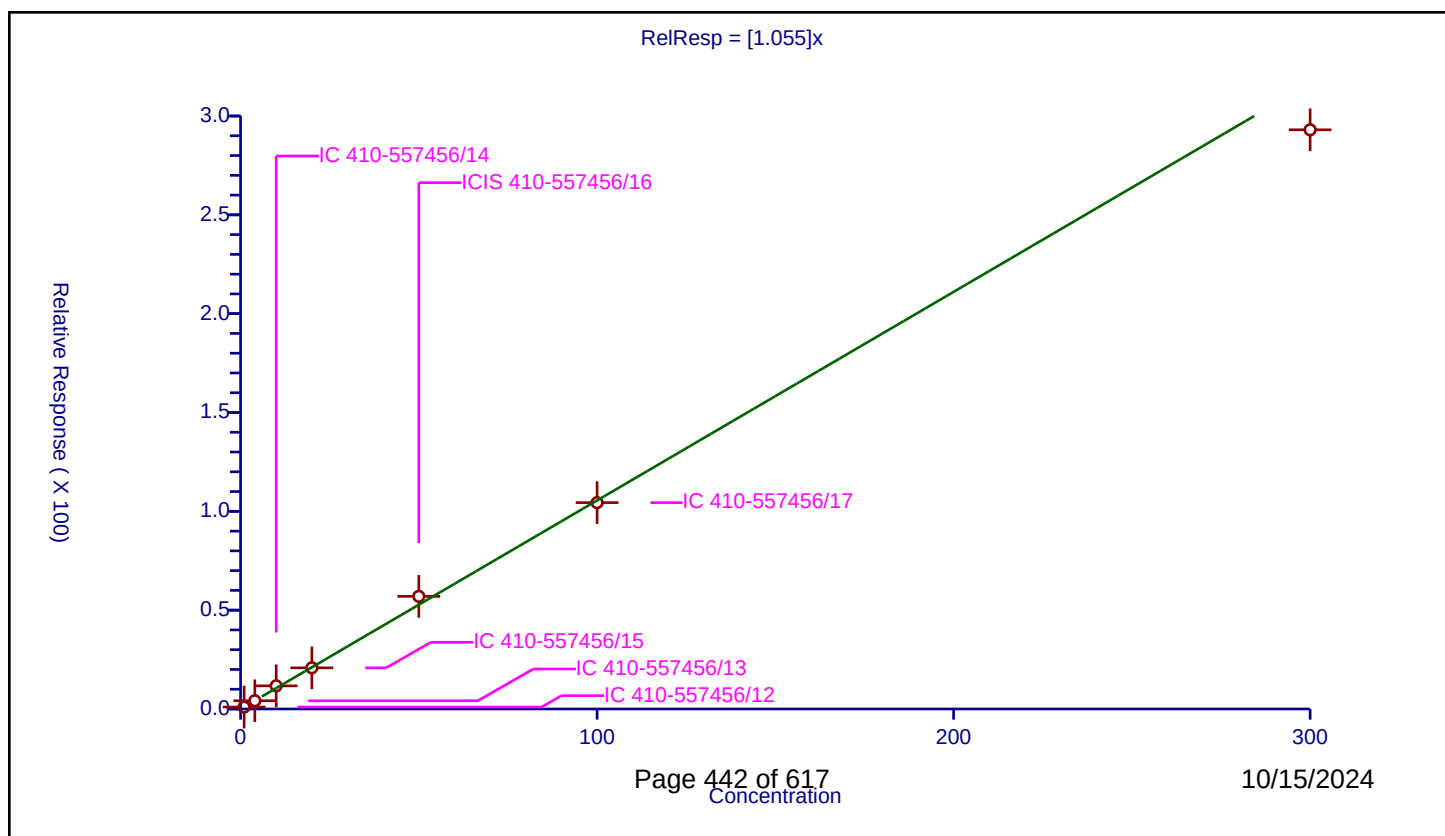
Curve Coefficients

Intercept: 0
Slope: 1.055

Error Coefficients

Relative Standard Deviation: 7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.973627	50.0	1022466.0	0.973627	Y
2	IC 410-557456/13	4.0	4.164364	50.0	998700.0	1.041091	Y
3	IC 410-557456/14	10.0	11.698261	50.0	1066744.0	1.169826	Y
4	IC 410-557456/15	20.0	20.820394	50.0	1064233.0	1.04102	Y
5	ICIS 410-557456/16	50.0	56.978304	50.0	1027456.0	1.139566	Y
6	IC 410-557456/17	100.0	104.396767	50.0	1065567.0	1.043968	Y
7	IC 410-557456/18	300.0	293.024416	50.0	1093292.0	0.976748	Y



Calibration

/ 1,2-Dichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

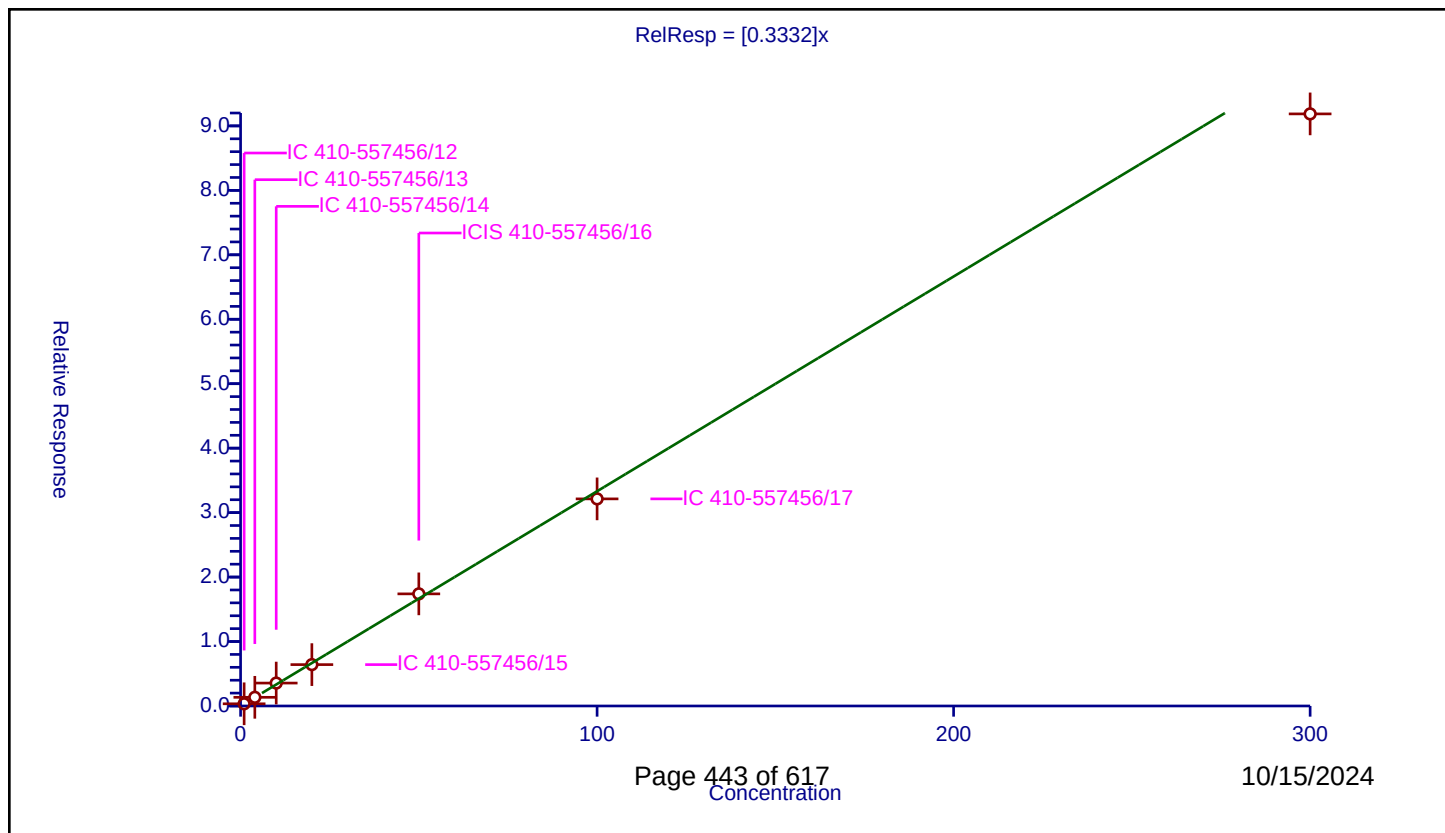
Curve Coefficients

Intercept: 0
Slope: 0.3332

Error Coefficients

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.343239	50.0	1022466.0	0.343239	Y
2	IC 410-557456/13	4.0	1.347352	50.0	998700.0	0.336838	Y
3	IC 410-557456/14	10.0	3.556711	50.0	1066744.0	0.355671	Y
4	IC 410-557456/15	20.0	6.420821	50.0	1064233.0	0.321041	Y
5	ICIS 410-557456/16	50.0	17.394224	50.0	1027456.0	0.347884	Y
6	IC 410-557456/17	100.0	32.134676	50.0	1065567.0	0.321347	Y
7	IC 410-557456/18	300.0	91.863884	50.0	1093292.0	0.306213	Y



Calibration

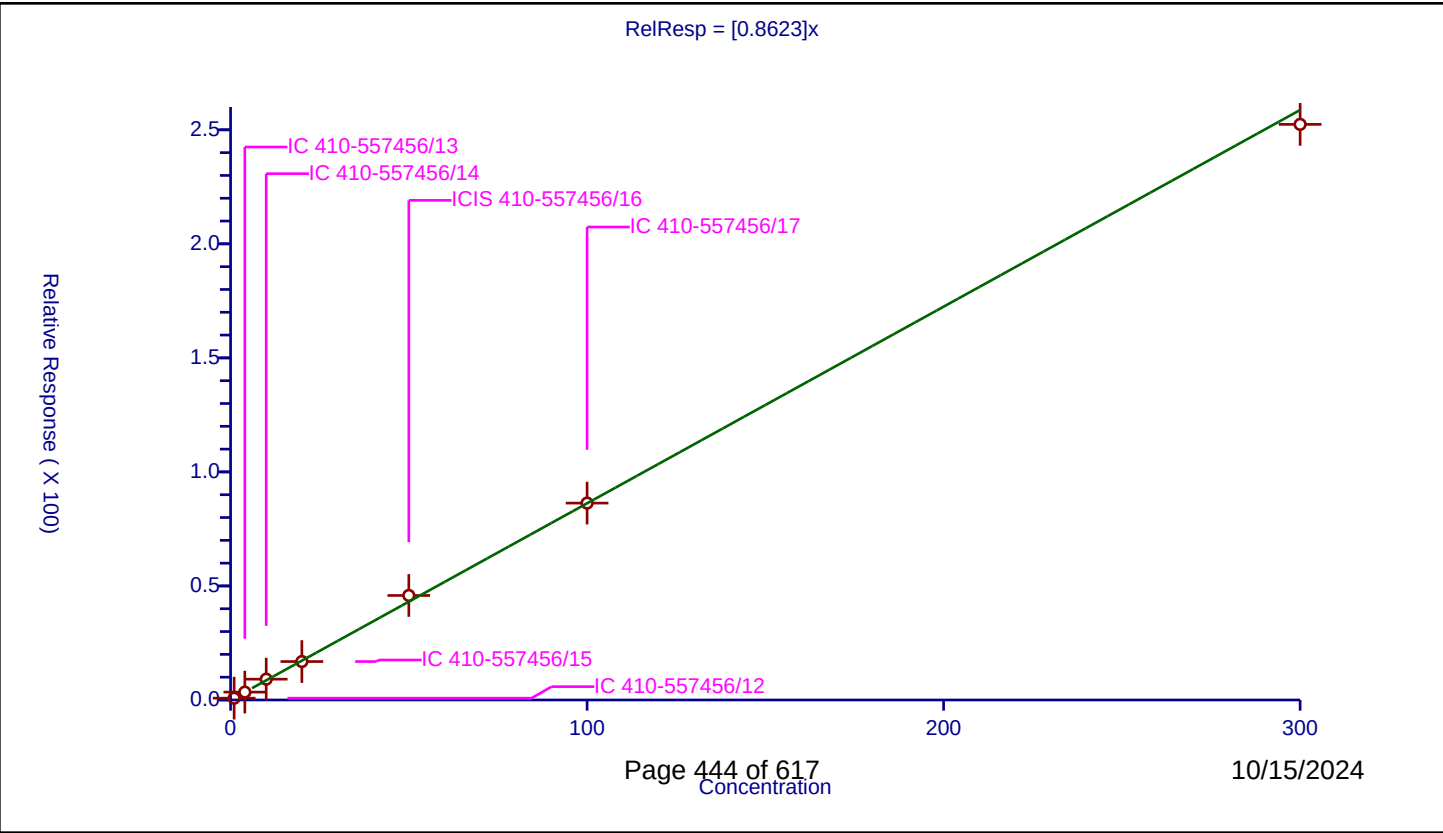
/ Tert-amyl methyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8623
Error Coefficients	

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.795039	50.0	1022466.0	0.795039	Y
2	IC 410-557456/13	4.0	3.458947	50.0	998700.0	0.864737	Y
3	IC 410-557456/14	10.0	9.122854	50.0	1066744.0	0.912285	Y
4	IC 410-557456/15	20.0	16.853546	50.0	1064233.0	0.842677	Y
5	ICIS 410-557456/16	50.0	45.829262	50.0	1027456.0	0.916585	Y
6	IC 410-557456/17	100.0	86.329719	50.0	1065567.0	0.863297	Y
7	IC 410-557456/18	300.0	252.388795	50.0	1093292.0	0.841296	Y



Calibration

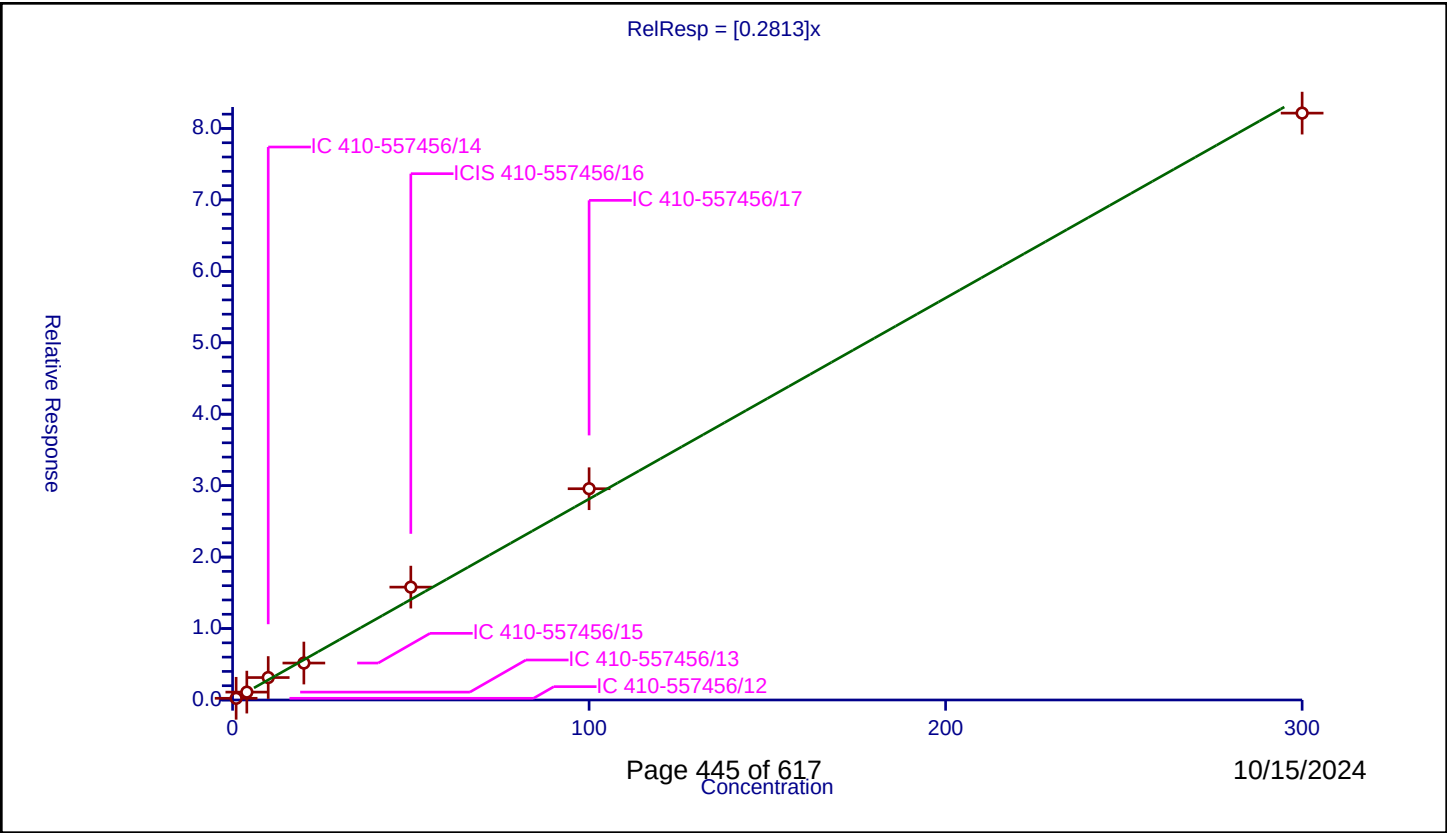
/ n-Heptane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2813
Error Coefficients	

Relative Standard Deviation: 10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.2359	50.0	1022466.0	0.2359	Y
2	IC 410-557456/13	4.0	1.101632	50.0	998700.0	0.275408	Y
3	IC 410-557456/14	10.0	3.140725	50.0	1066744.0	0.314073	Y
4	IC 410-557456/15	20.0	5.170766	50.0	1064233.0	0.258538	Y
5	ICIS 410-557456/16	50.0	15.799752	50.0	1027456.0	0.315995	Y
6	IC 410-557456/17	100.0	29.571205	50.0	1065567.0	0.295712	Y
7	IC 410-557456/18	300.0	82.145712	50.0	1093292.0	0.273819	Y



Calibration

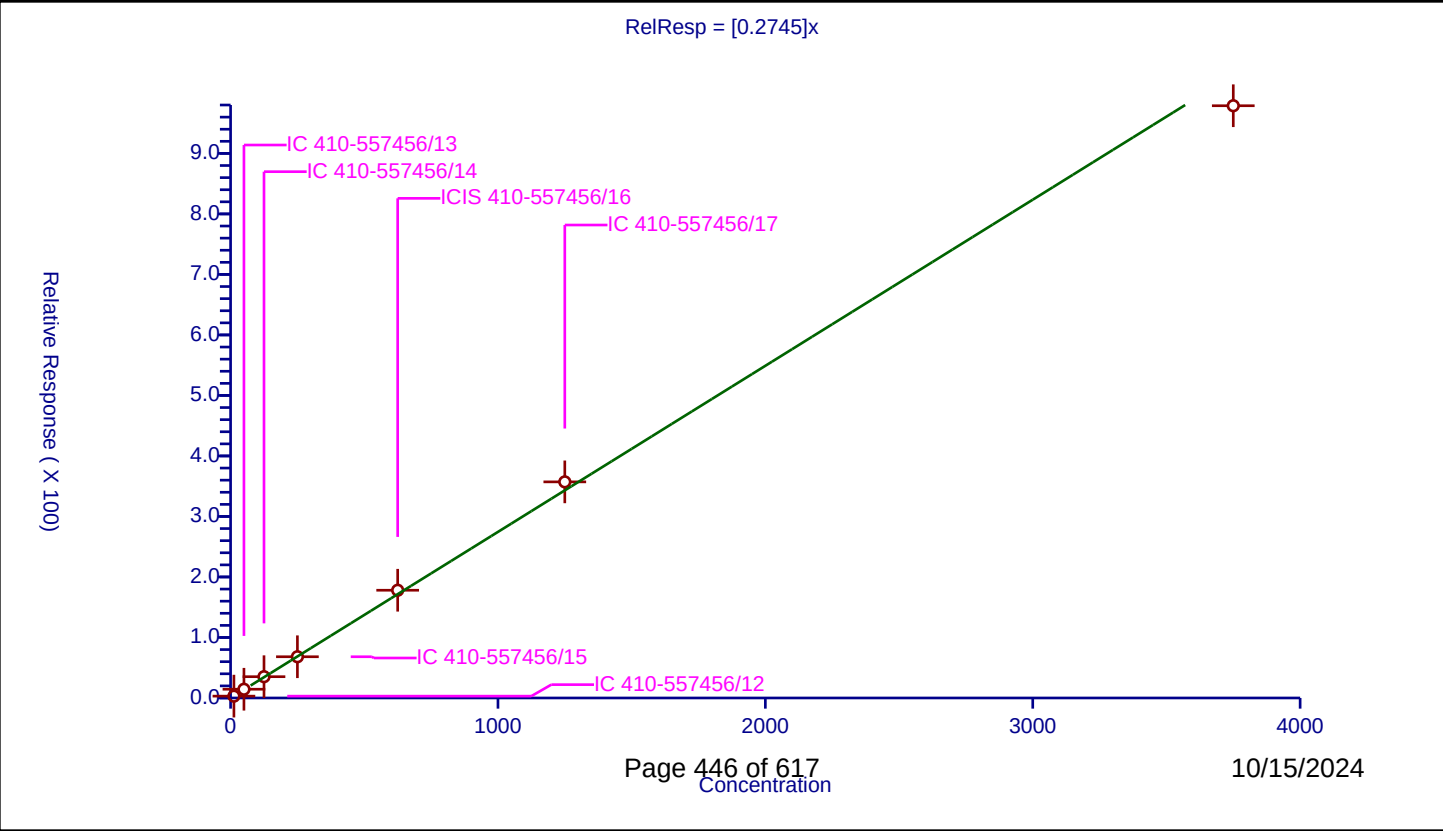
/ n-Butanol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2745

Error Coefficients	
Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	12.5	3.082998	250.0	325657.0	0.24664	Y
2	IC 410-557456/13	50.0	14.455236	250.0	311548.0	0.289105	Y
3	IC 410-557456/14	125.0	35.188132	250.0	339390.0	0.281505	Y
4	IC 410-557456/15	250.0	68.148433	250.0	326761.0	0.272594	Y
5	ICIS 410-557456/16	625.0	178.072569	250.0	331685.0	0.284916	Y
6	IC 410-557456/17	1250.0	357.175214	250.0	356519.0	0.28574	Y
7	IC 410-557456/18	3750.0	978.804679	250.0	370754.0	0.261015	Y



Calibration

/ Trichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

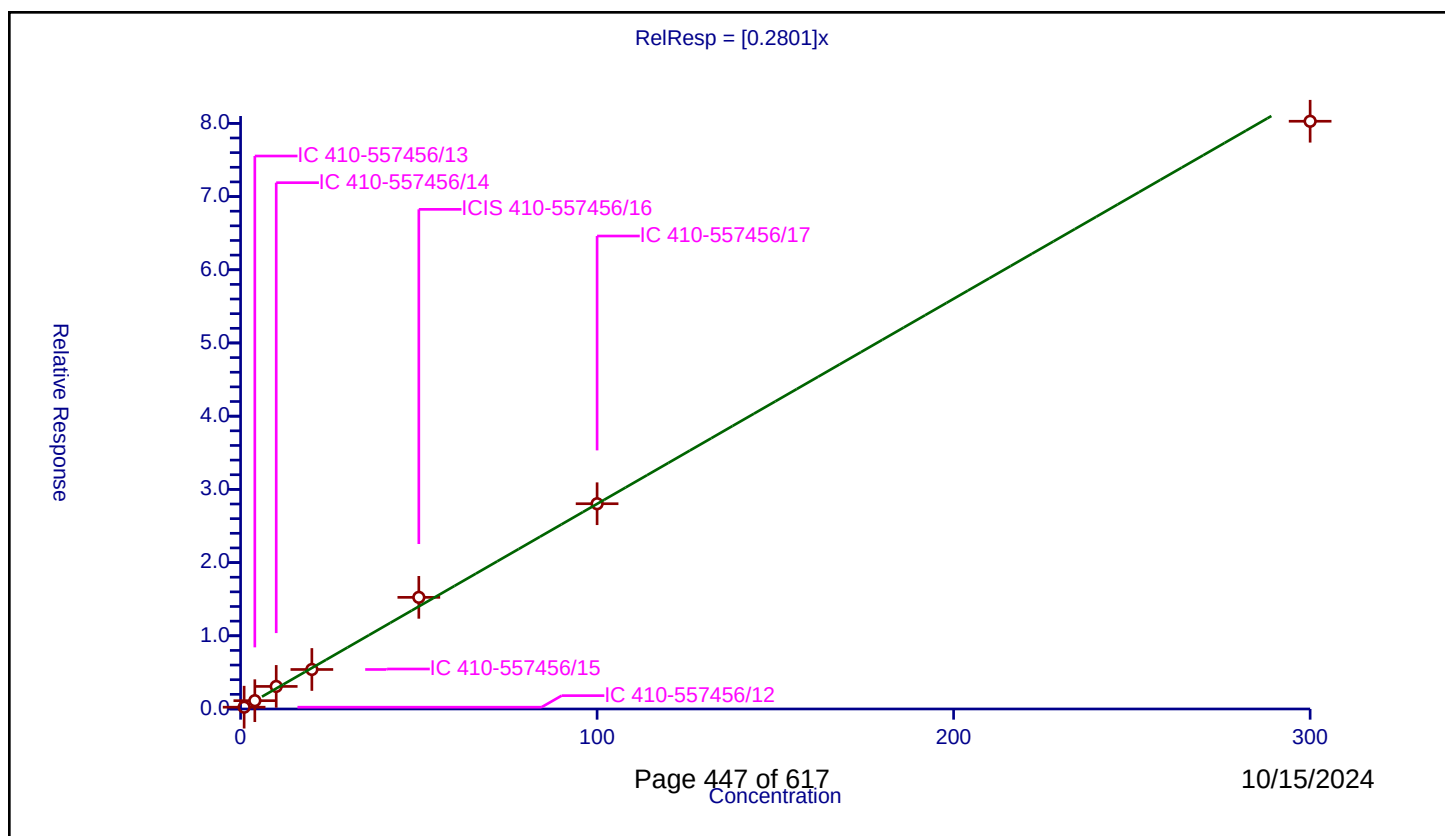
Curve Coefficients

Intercept: 0
Slope: 0.2801

Error Coefficients

Relative Standard Deviation: 7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.246023	50.0	1022466.0	0.246023	Y
2	IC 410-557456/13	4.0	1.135827	50.0	998700.0	0.283957	Y
3	IC 410-557456/14	10.0	3.083308	50.0	1066744.0	0.308331	Y
4	IC 410-557456/15	20.0	5.394824	50.0	1064233.0	0.269741	Y
5	ICIS 410-557456/16	50.0	15.249315	50.0	1027456.0	0.304986	Y
6	IC 410-557456/17	100.0	28.037514	50.0	1065567.0	0.280375	Y
7	IC 410-557456/18	300.0	80.284178	50.0	1093292.0	0.267614	Y



Calibration

/ Ethyl acrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

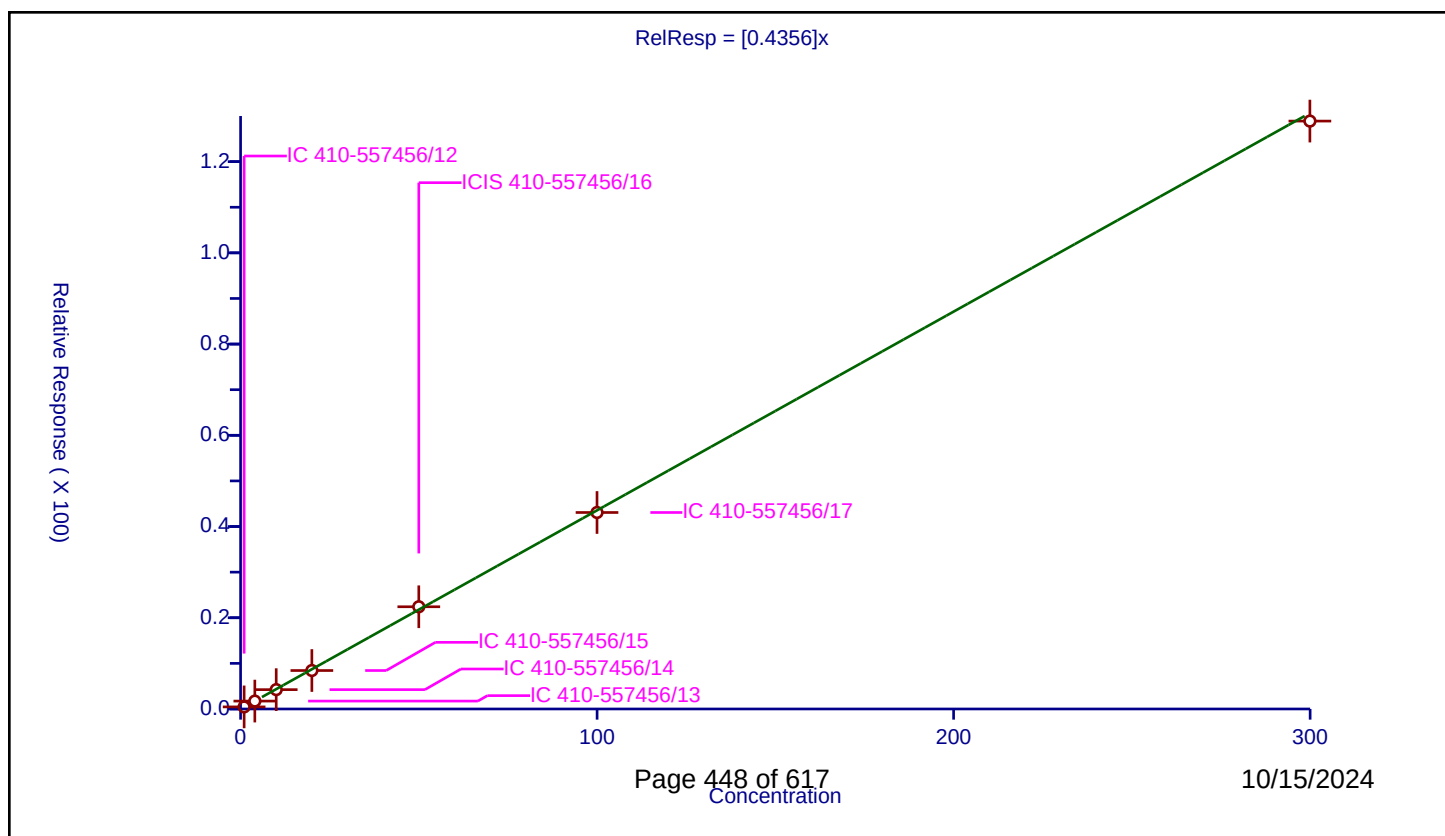
Curve Coefficients

Intercept: 0
Slope: 0.4356

Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	0.999796	0.461042	50.0	1022466.0	0.461136	Y
2	IC 410-557456/13	3.999186	1.731601	50.0	998700.0	0.432988	Y
3	IC 410-557456/14	9.997964	4.241974	50.0	1066744.0	0.424284	Y
4	IC 410-557456/15	19.995928	8.430532	50.0	1064233.0	0.421612	Y
5	ICIS 410-557456/16	49.98982	22.410254	50.0	1027456.0	0.448296	Y
6	IC 410-557456/17	99.97964	43.075752	50.0	1065567.0	0.430845	Y
7	IC 410-557456/18	299.93892	128.88876	50.0	1093292.0	0.429717	Y



Calibration

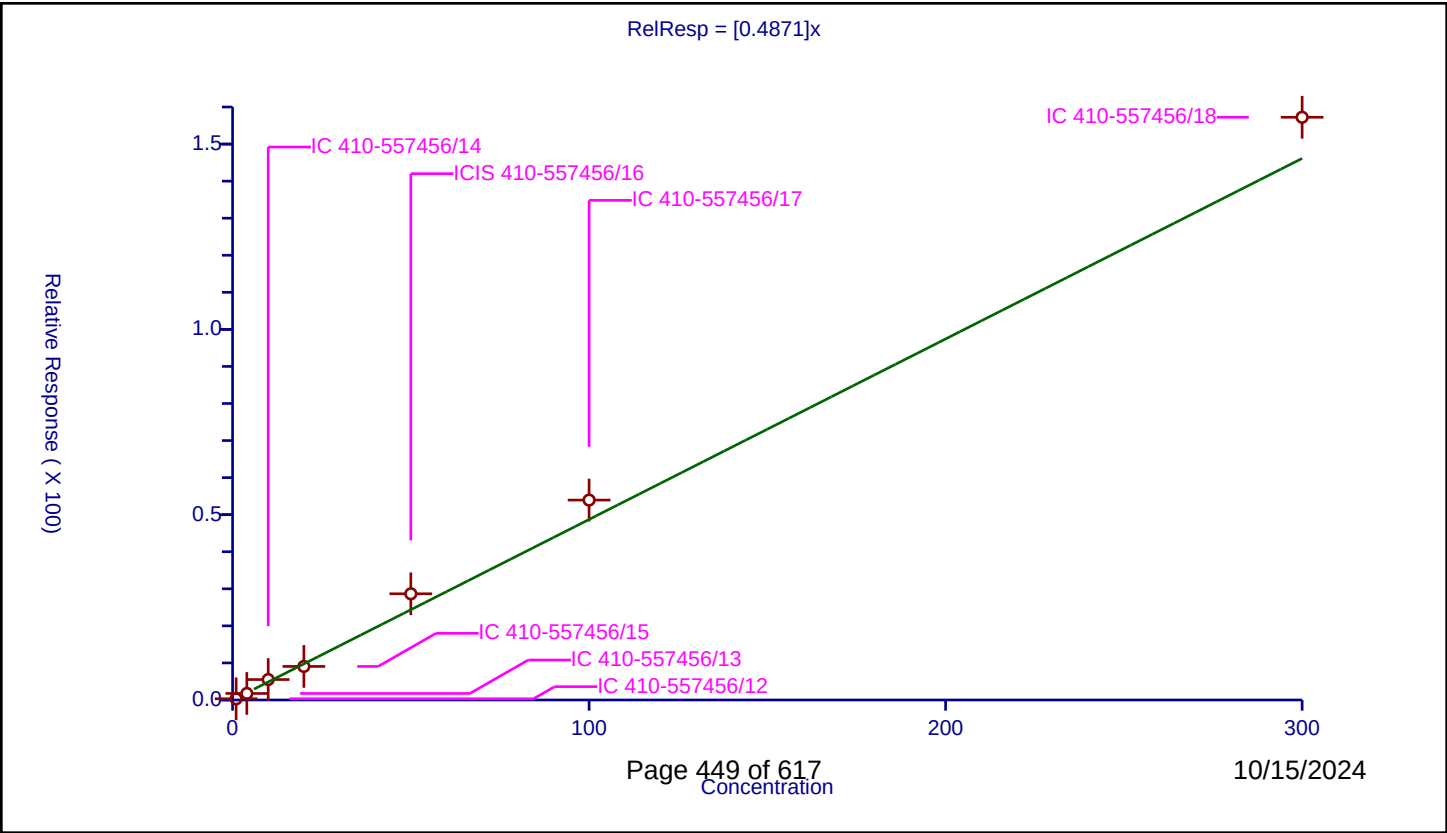
/ Methylcyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4871
Error Coefficients	

Relative Standard Deviation: 17.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.329889	50.0	1022466.0	0.329889	Y
2	IC 410-557456/13	4.0	1.755682	50.0	998700.0	0.438921	Y
3	IC 410-557456/14	10.0	5.515709	50.0	1066744.0	0.551571	Y
4	IC 410-557456/15	20.0	9.052388	50.0	1064233.0	0.452619	Y
5	ICIS 410-557456/16	50.0	28.658891	50.0	1027456.0	0.573178	Y
6	IC 410-557456/17	100.0	53.940813	50.0	1065567.0	0.539408	Y
7	IC 410-557456/18	300.0	157.233292	50.0	1093292.0	0.524111	Y



Calibration

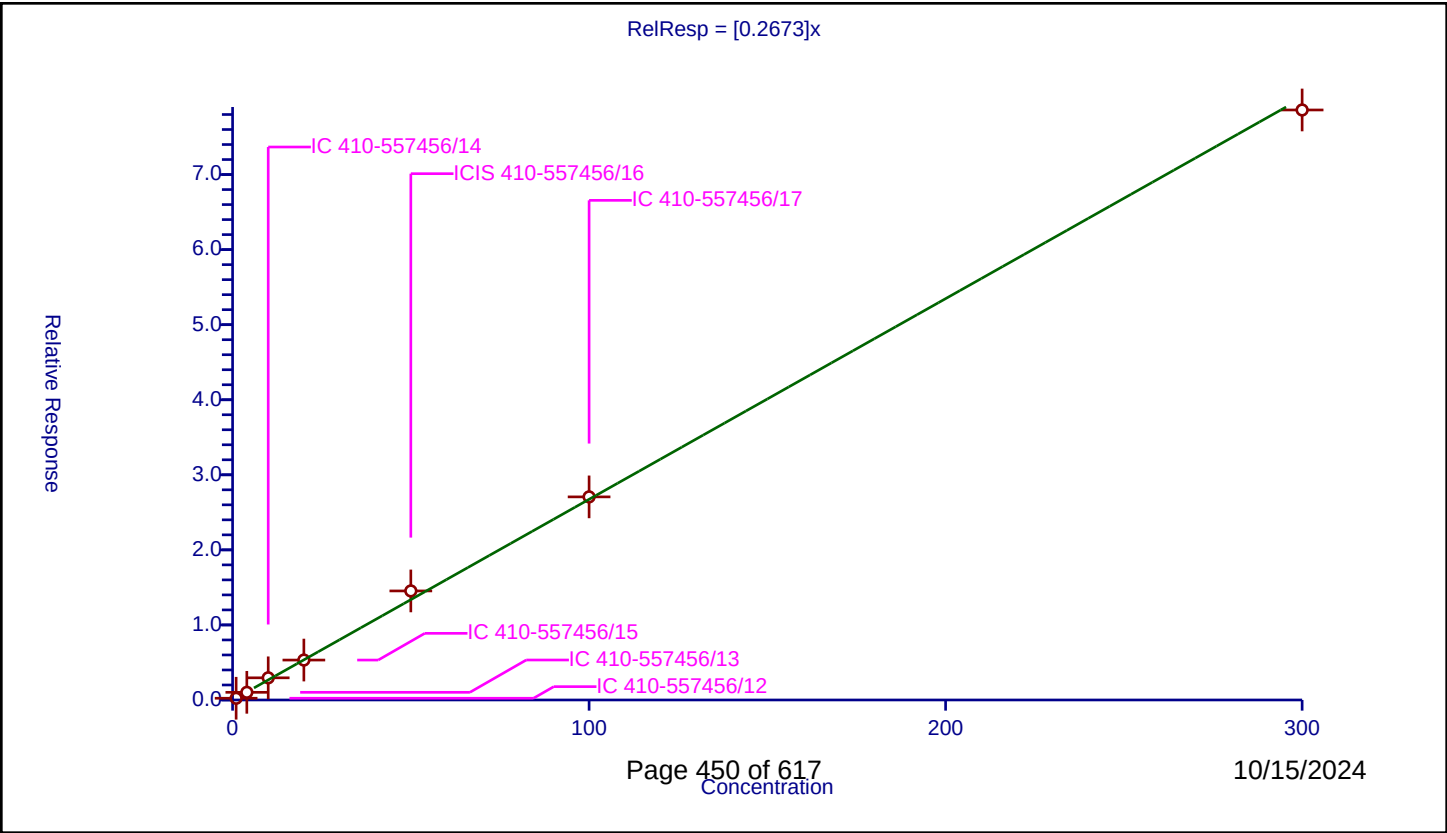
/ 1,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2673
Error Coefficients	

Relative Standard Deviation: 8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.231157	50.0	1022466.0	0.231157	Y
2	IC 410-557456/13	4.0	1.02298	50.0	998700.0	0.255745	Y
3	IC 410-557456/14	10.0	2.95277	50.0	1066744.0	0.295277	Y
4	IC 410-557456/15	20.0	5.321485	50.0	1064233.0	0.266074	Y
5	ICIS 410-557456/16	50.0	14.527435	50.0	1027456.0	0.290549	Y
6	IC 410-557456/17	100.0	27.059631	50.0	1065567.0	0.270596	Y
7	IC 410-557456/18	300.0	78.605213	50.0	1093292.0	0.262017	Y



Calibration

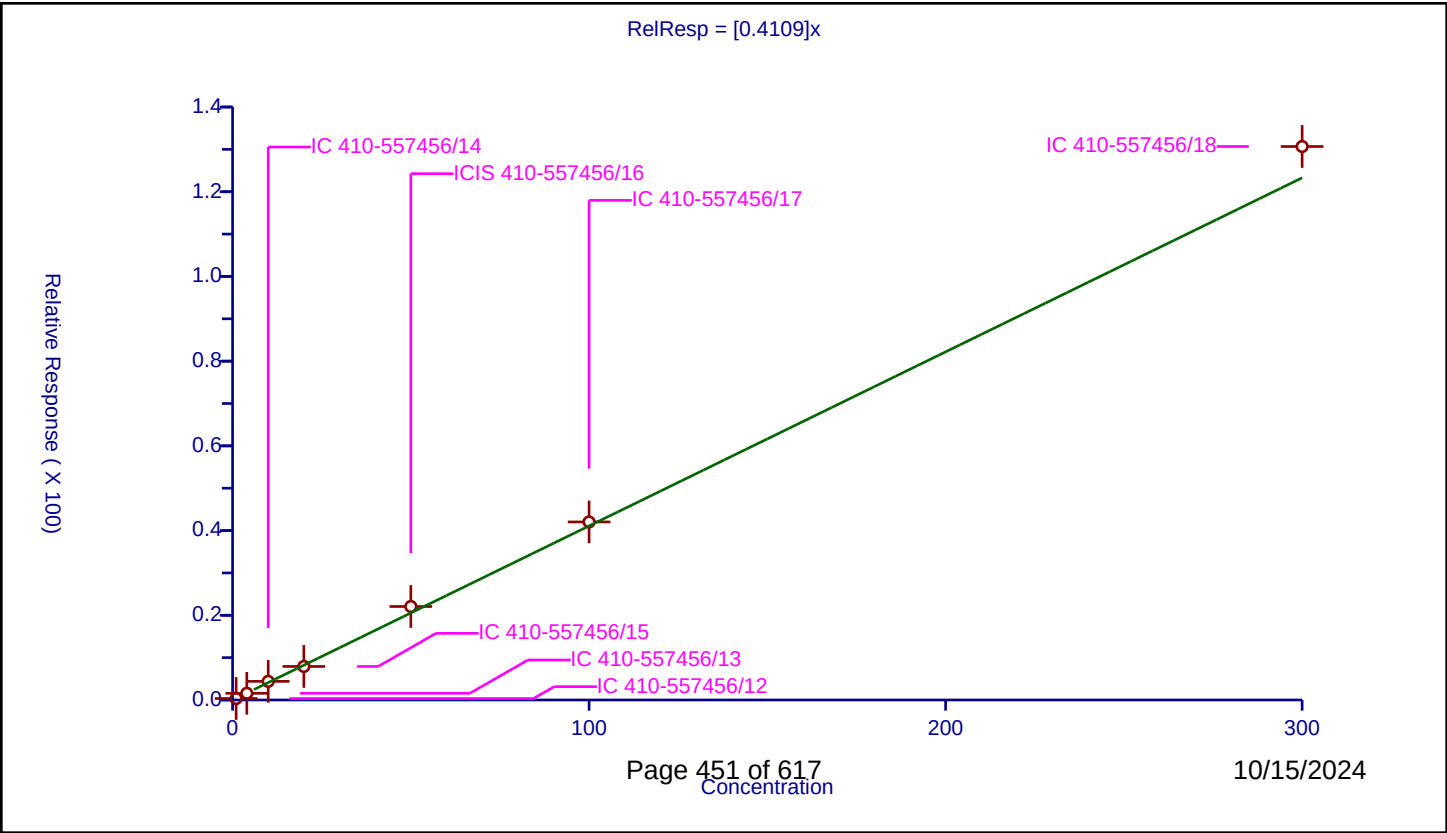
/ 2-ethoxy-2-methyl butane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4109
Error Coefficients	

Relative Standard Deviation: 8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.348667	50.0	1022466.0	0.348667	Y
2	IC 410-557456/13	4.0	1.579153	50.0	998700.0	0.394788	Y
3	IC 410-557456/14	10.0	4.398525	50.0	1066744.0	0.439852	Y
4	IC 410-557456/15	20.0	7.920211	50.0	1064233.0	0.396011	Y
5	ICIS 410-557456/16	50.0	22.067271	50.0	1027456.0	0.441345	Y
6	IC 410-557456/17	100.0	42.036962	50.0	1065567.0	0.42037	Y
7	IC 410-557456/18	300.0	130.676709	50.0	1093292.0	0.435589	Y



Calibration

/ Methyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

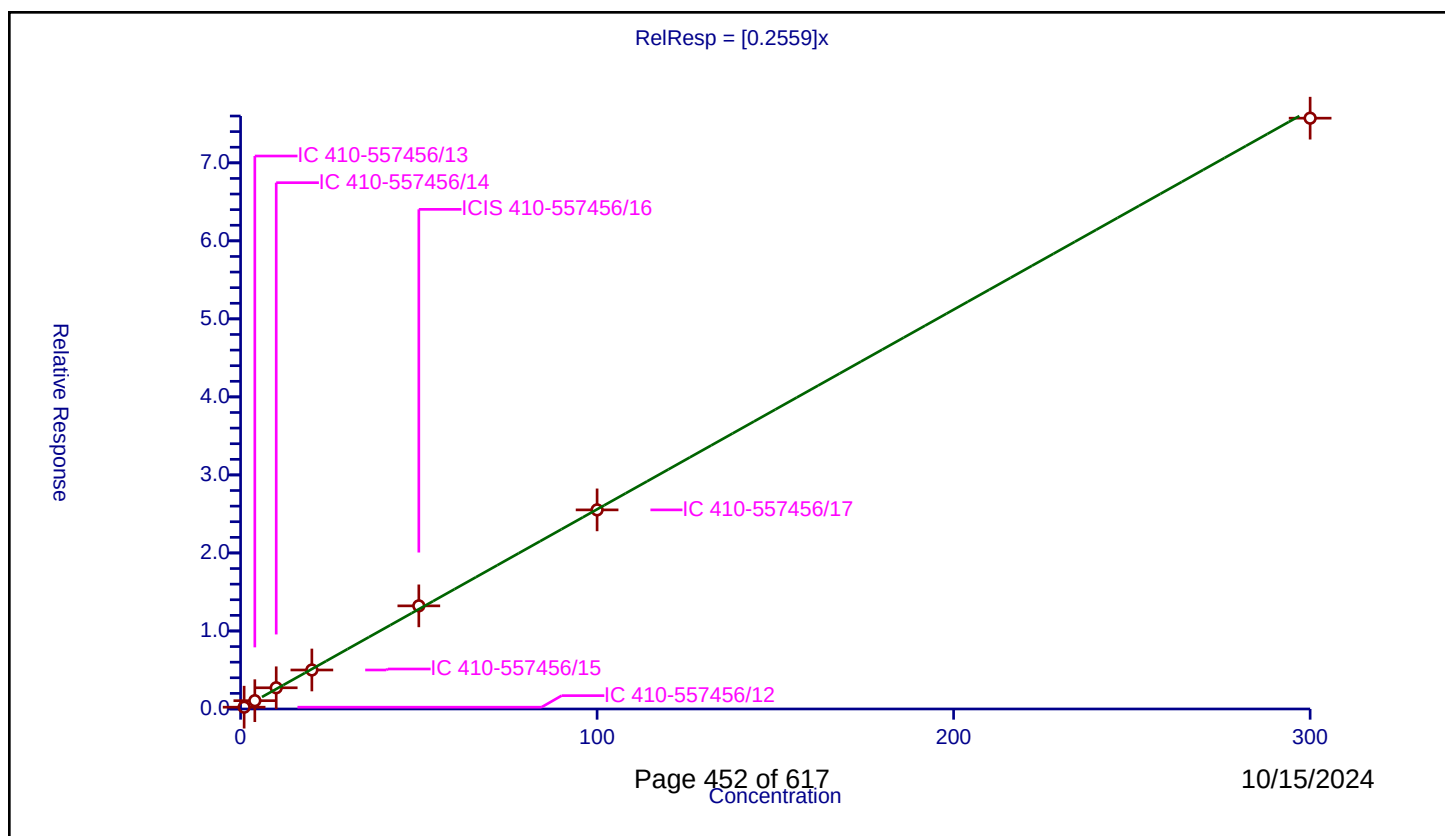
Curve Coefficients

Intercept: 0
Slope: 0.2559

Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.231401	50.0	1022466.0	0.231401	Y
2	IC 410-557456/13	4.0	1.064083	50.0	998700.0	0.266021	Y
3	IC 410-557456/14	10.0	2.719537	50.0	1066744.0	0.271954	Y
4	IC 410-557456/15	20.0	4.999986	50.0	1064233.0	0.249999	Y
5	ICIS 410-557456/16	50.0	13.218814	50.0	1027456.0	0.264376	Y
6	IC 410-557456/17	100.0	25.518198	50.0	1065567.0	0.255182	Y
7	IC 410-557456/18	300.0	75.722588	50.0	1093292.0	0.252409	Y



Calibration

/ 1,4-Dioxane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

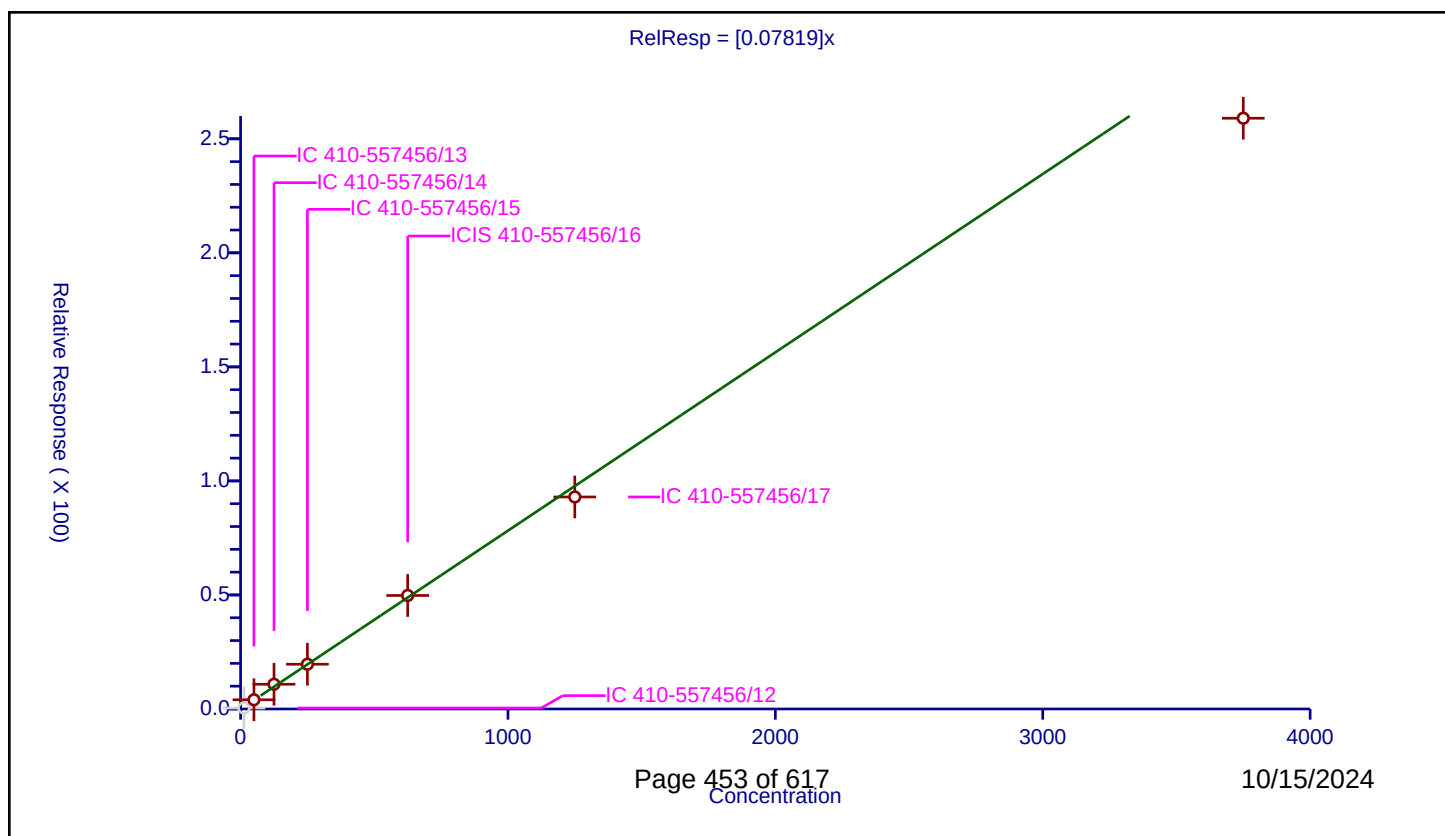
Curve Coefficients

Intercept: 0
Slope: 0.07819

Error Coefficients

Relative Standard Deviation: 7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	12.5	0.426062	250.0	325657.0	0.034085	N
2	IC 410-557456/13	50.0	4.043518	250.0	311548.0	0.08087	Y
3	IC 410-557456/14	125.0	10.8393	250.0	339390.0	0.086714	Y
4	IC 410-557456/15	250.0	19.62061	250.0	326761.0	0.078482	Y
5	ICIS 410-557456/16	625.0	49.76333	250.0	331685.0	0.079621	Y
6	IC 410-557456/17	1250.0	92.959982	250.0	356519.0	0.074368	Y
7	IC 410-557456/18	3750.0	259.033618	250.0	370754.0	0.069076	Y



Calibration

/ Dibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

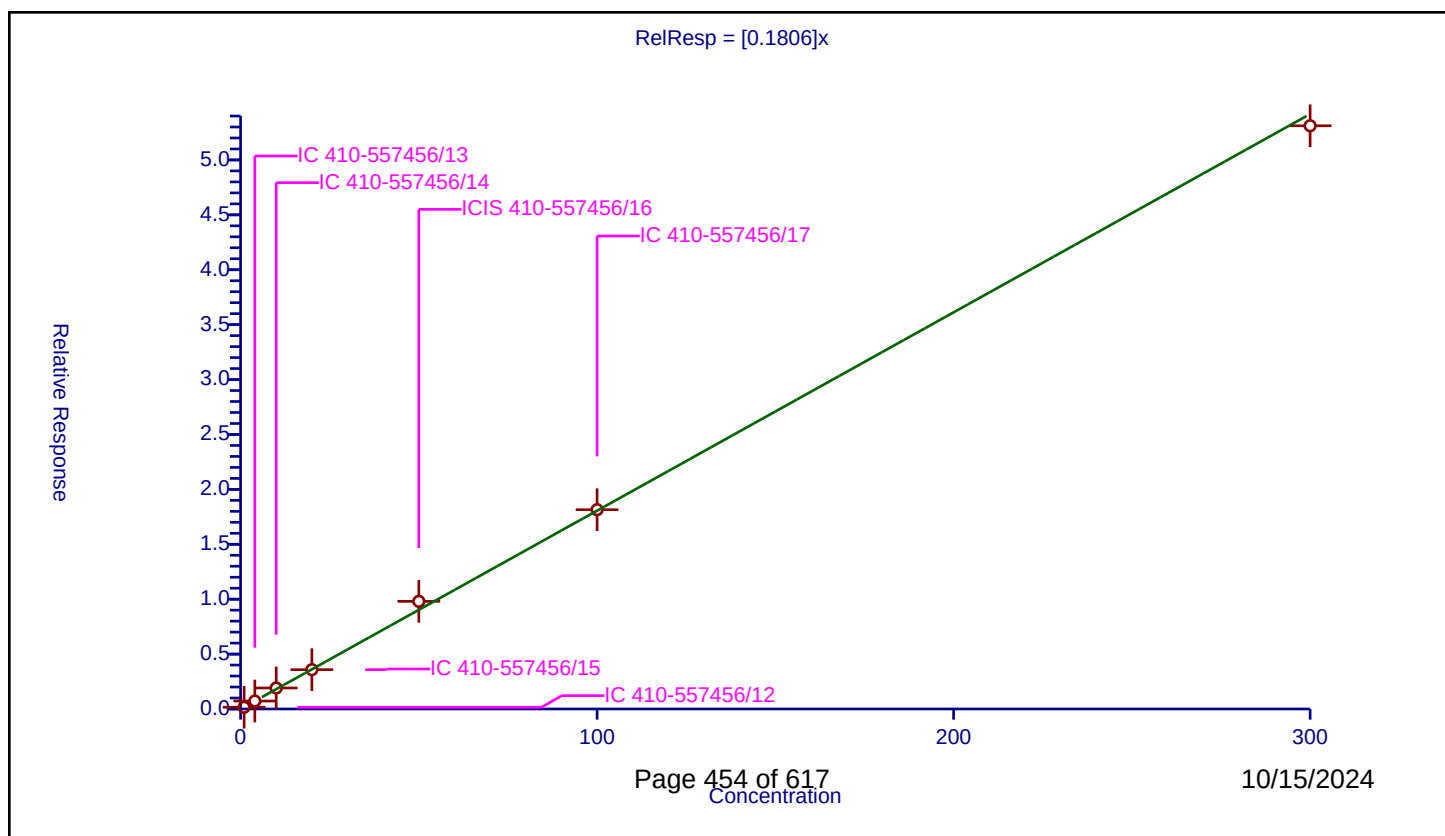
Curve Coefficients

Intercept: 0
Slope: 0.1806

Error Coefficients

Relative Standard Deviation: 6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.157903	50.0	1022466.0	0.157903	Y
2	IC 410-557456/13	4.0	0.725844	50.0	998700.0	0.181461	Y
3	IC 410-557456/14	10.0	1.91194	50.0	1066744.0	0.191194	Y
4	IC 410-557456/15	20.0	3.581265	50.0	1064233.0	0.179063	Y
5	ICIS 410-557456/16	50.0	9.80334	50.0	1027456.0	0.196067	Y
6	IC 410-557456/17	100.0	18.148554	50.0	1065567.0	0.181486	Y
7	IC 410-557456/18	300.0	53.110285	50.0	1093292.0	0.177034	Y



Calibration

/ Dichlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

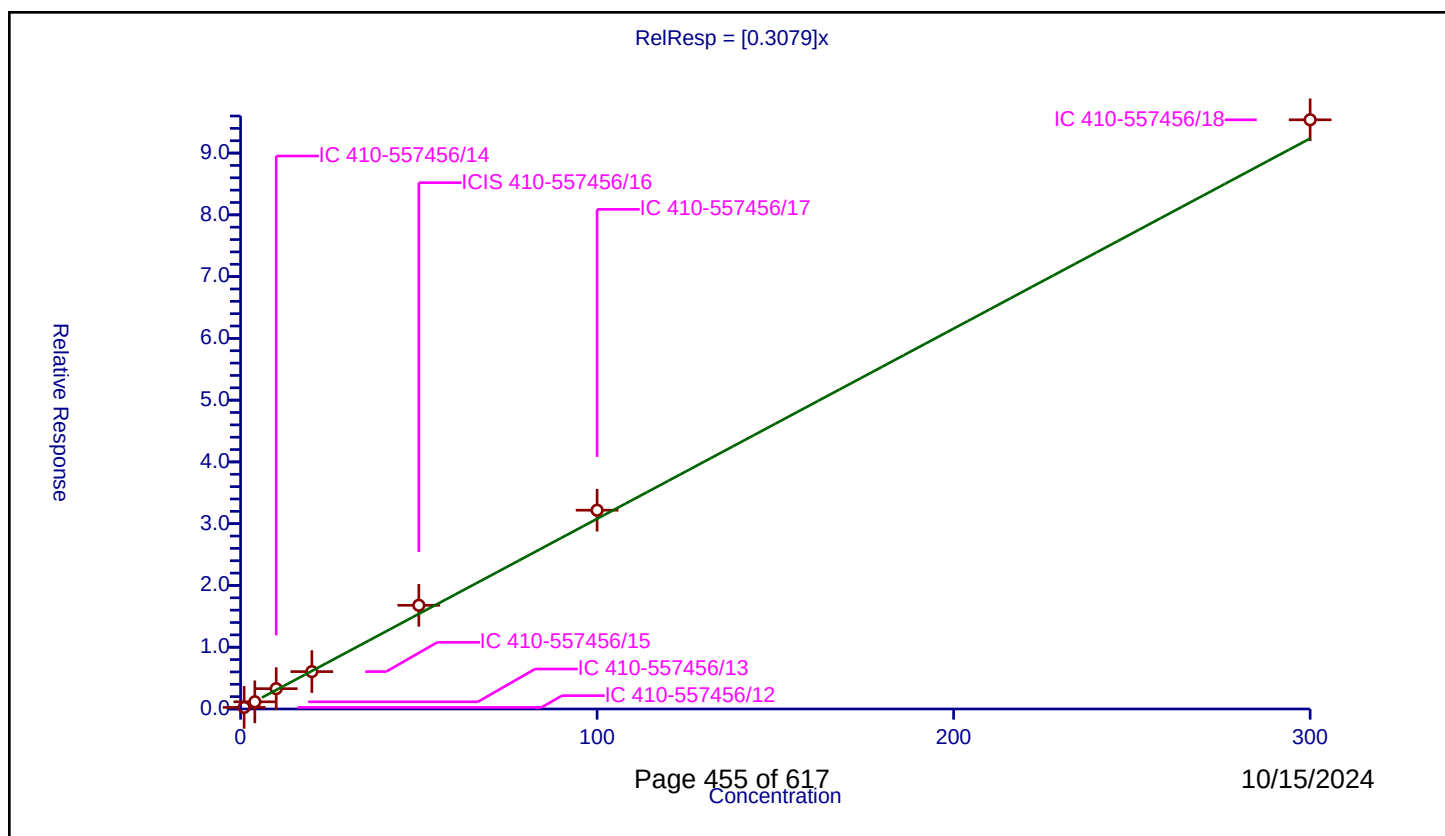
Curve Coefficients

Intercept: 0
Slope: 0.3079

Error Coefficients

Relative Standard Deviation: 8.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.257857	50.0	1022466.0	0.257857	Y
2	IC 410-557456/13	4.0	1.163012	50.0	998700.0	0.290753	Y
3	IC 410-557456/14	10.0	3.286262	50.0	1066744.0	0.328626	Y
4	IC 410-557456/15	20.0	6.049803	50.0	1064233.0	0.30249	Y
5	ICIS 410-557456/16	50.0	16.785877	50.0	1027456.0	0.335718	Y
6	IC 410-557456/17	100.0	32.180614	50.0	1065567.0	0.321806	Y
7	IC 410-557456/18	300.0	95.388377	50.0	1093292.0	0.317961	Y

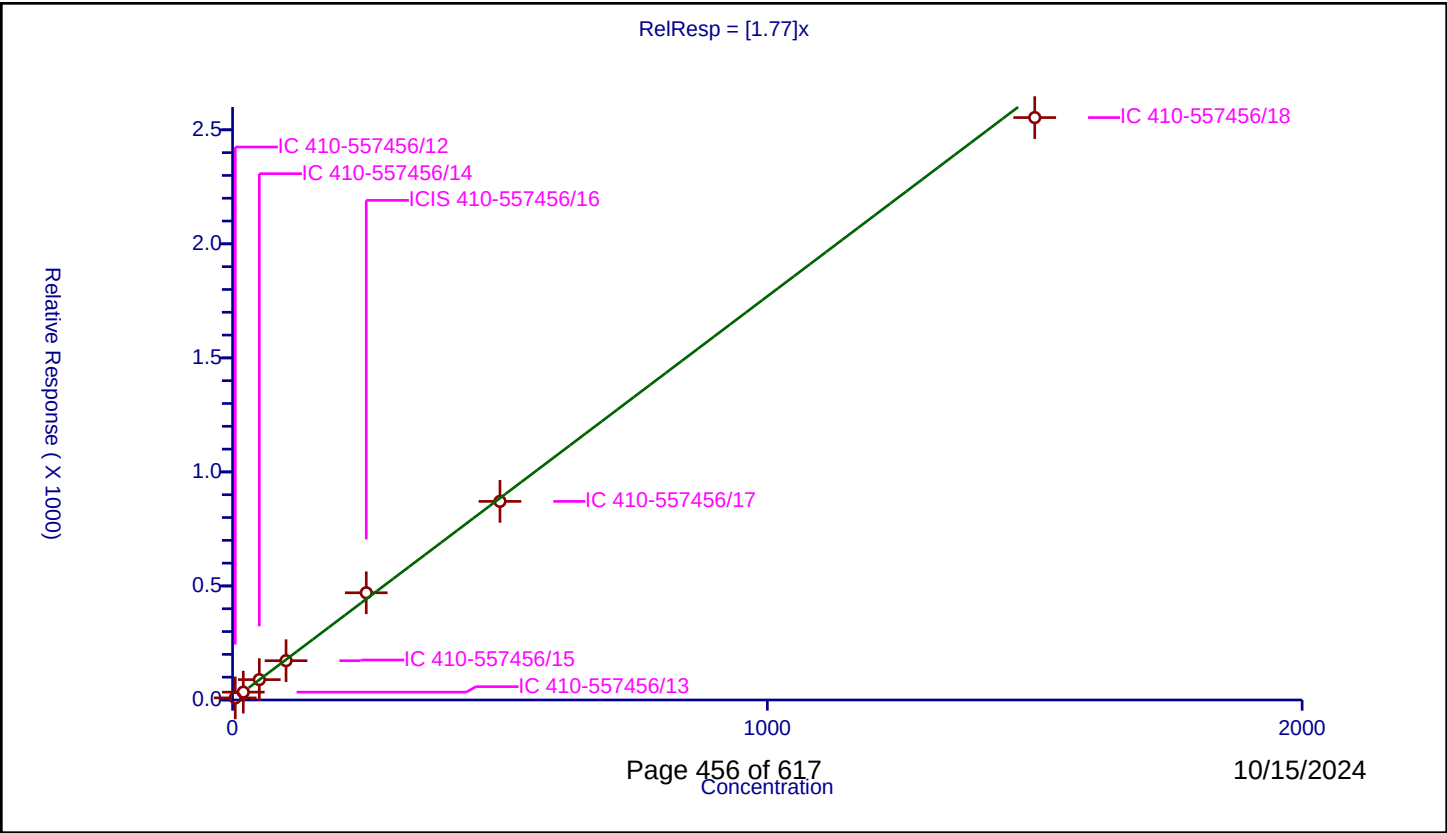


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.77
Error Coefficients	

Relative Standard Deviation: 3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	5.0	9.16455	250.0	325657.0	1.83291	Y
2	IC 410-557456/13	20.0	34.474623	250.0	311548.0	1.723731	Y
3	IC 410-557456/14	50.0	89.249831	250.0	339390.0	1.784997	Y
4	IC 410-557456/15	100.0	172.340793	250.0	326761.0	1.723408	Y
5	ICIS 410-557456/16	250.0	470.108687	250.0	331685.0	1.880435	Y
6	IC 410-557456/17	500.0	870.793702	250.0	356519.0	1.741587	Y
7	IC 410-557456/18	1500.0	2553.749252	250.0	370754.0	1.7025	Y



Calibration

/ 2-Chloroethyl vinyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

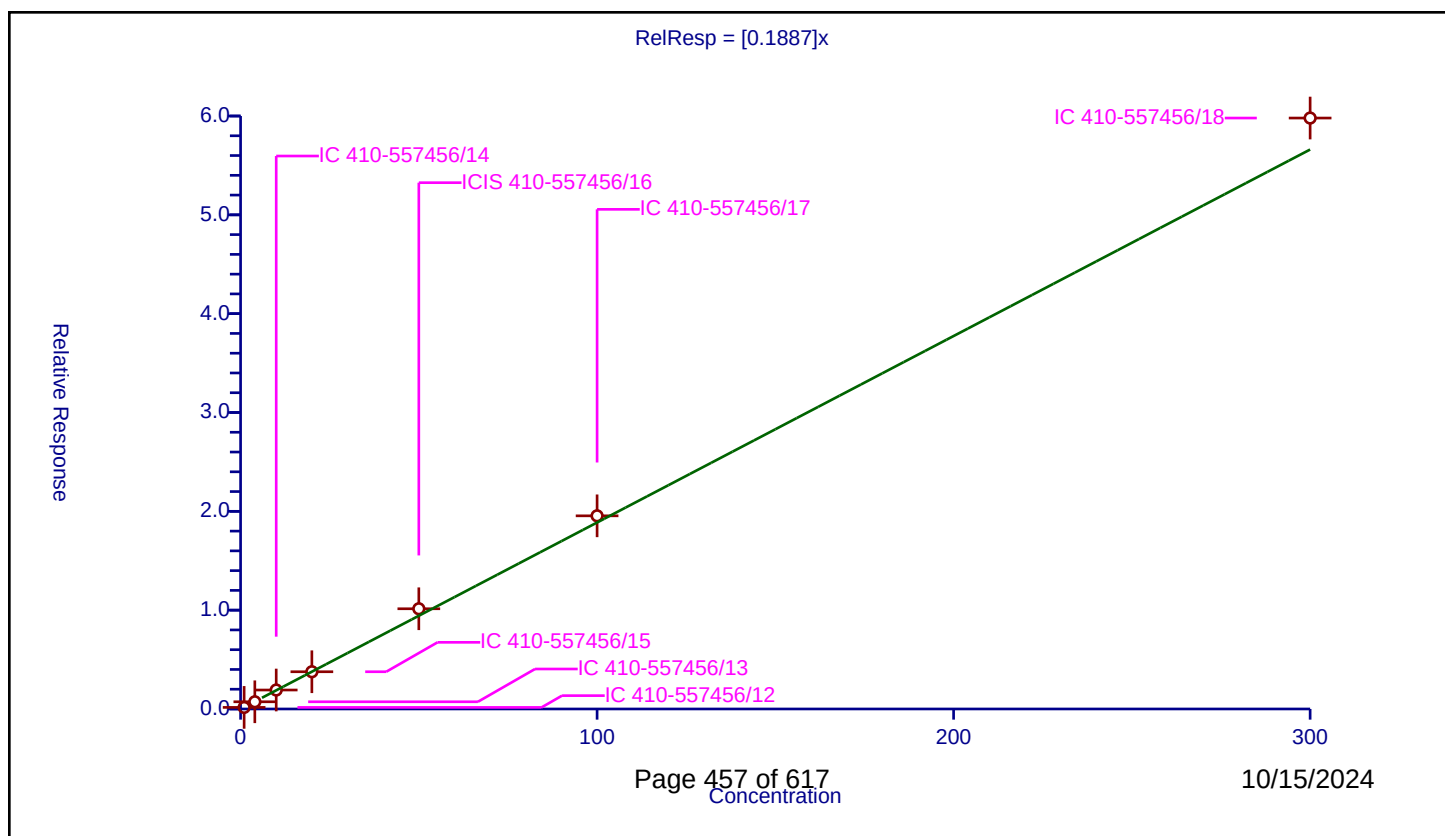
Curve Coefficients

Intercept: 0
Slope: 0.1887

Error Coefficients

Relative Standard Deviation: 7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.160543	50.0	1022466.0	0.160543	Y
2	IC 410-557456/13	4.0	0.729598	50.0	998700.0	0.1824	Y
3	IC 410-557456/14	10.0	1.919439	50.0	1066744.0	0.191944	Y
4	IC 410-557456/15	20.0	3.767079	50.0	1064233.0	0.188354	Y
5	ICIS 410-557456/16	50.0	10.140775	50.0	1027456.0	0.202815	Y
6	IC 410-557456/17	100.0	19.546167	50.0	1065567.0	0.195462	Y
7	IC 410-557456/18	300.0	59.795233	50.0	1093292.0	0.199317	Y



Calibration

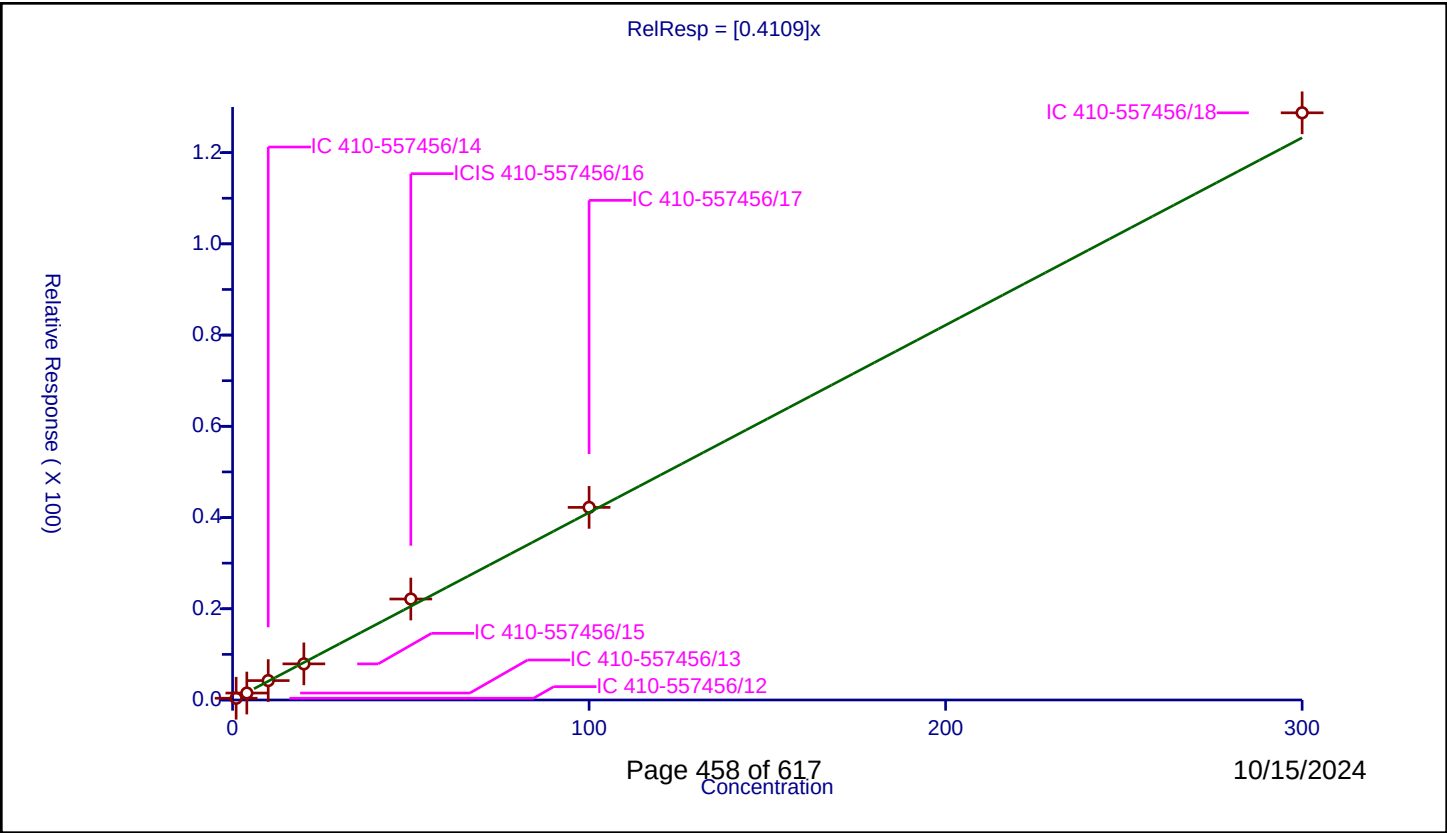
/ cis-1,3-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4109
Error Coefficients	

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.380991	50.0	1022466.0	0.380991	Y
2	IC 410-557456/13	4.0	1.520176	50.0	998700.0	0.380044	Y
3	IC 410-557456/14	10.0	4.251864	50.0	1066744.0	0.425186	Y
4	IC 410-557456/15	20.0	7.920258	50.0	1064233.0	0.396013	Y
5	ICIS 410-557456/16	50.0	22.13467	50.0	1027456.0	0.442693	Y
6	IC 410-557456/17	100.0	42.227284	50.0	1065567.0	0.422273	Y
7	IC 410-557456/18	300.0	128.733495	50.0	1093292.0	0.429112	Y



Calibration

/ 4-Methyl-2-pentanone (MIBK)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

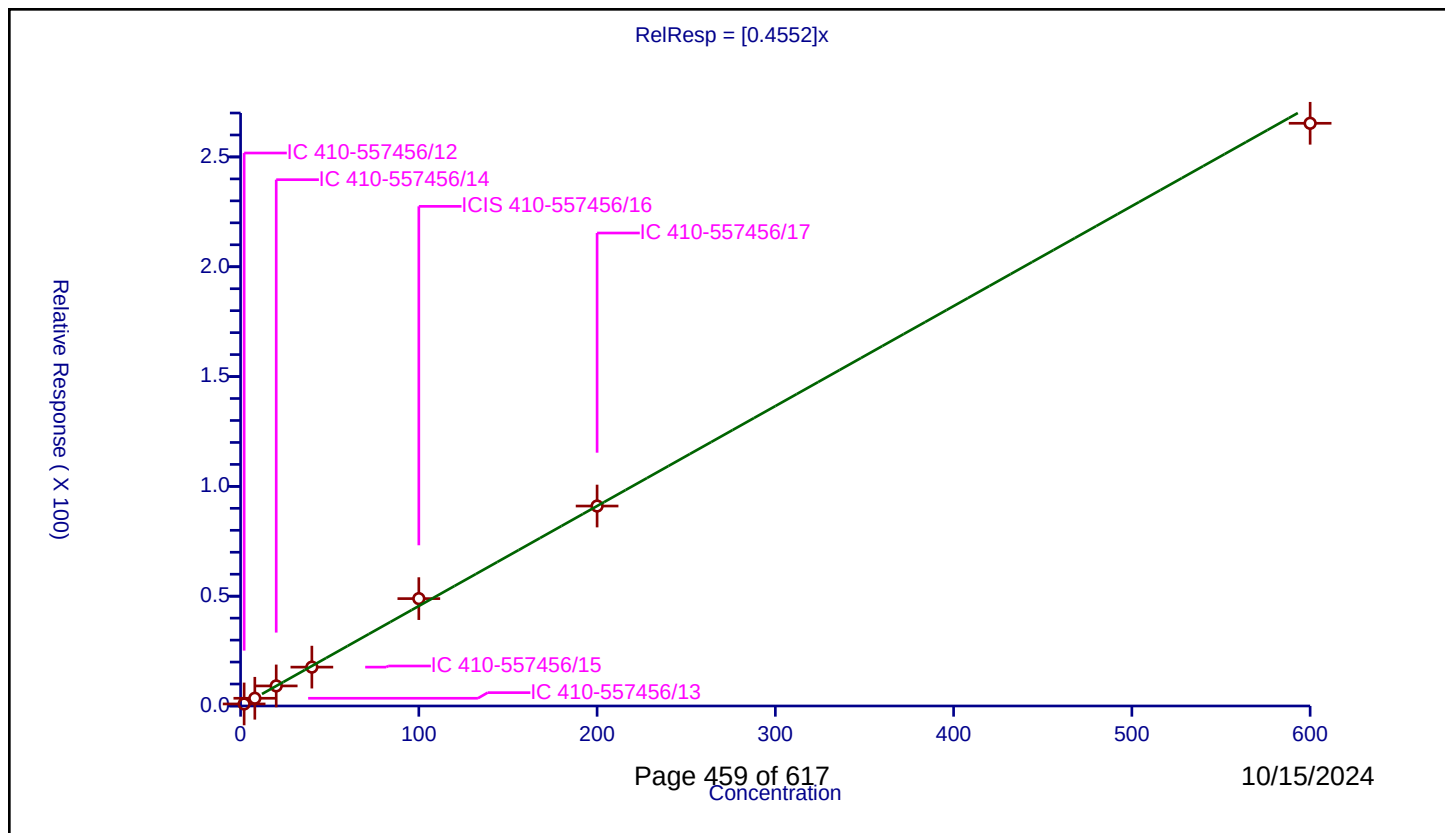
Curve Coefficients

Intercept: 0
Slope: 0.4552

Error Coefficients

Relative Standard Deviation: 3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	2.0	0.923307	50.0	1022466.0	0.461653	Y
2	IC 410-557456/13	8.0	3.512166	50.0	998700.0	0.439021	Y
3	IC 410-557456/14	20.0	9.14254	50.0	1066744.0	0.457127	Y
4	IC 410-557456/15	40.0	17.699648	50.0	1064233.0	0.442491	Y
5	ICIS 410-557456/16	100.0	48.890123	50.0	1027456.0	0.488901	Y
6	IC 410-557456/17	200.0	91.052041	50.0	1065567.0	0.45526	Y
7	IC 410-557456/18	600.0	265.323216	50.0	1093292.0	0.442205	Y



Calibration

/ Toluene-d8 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

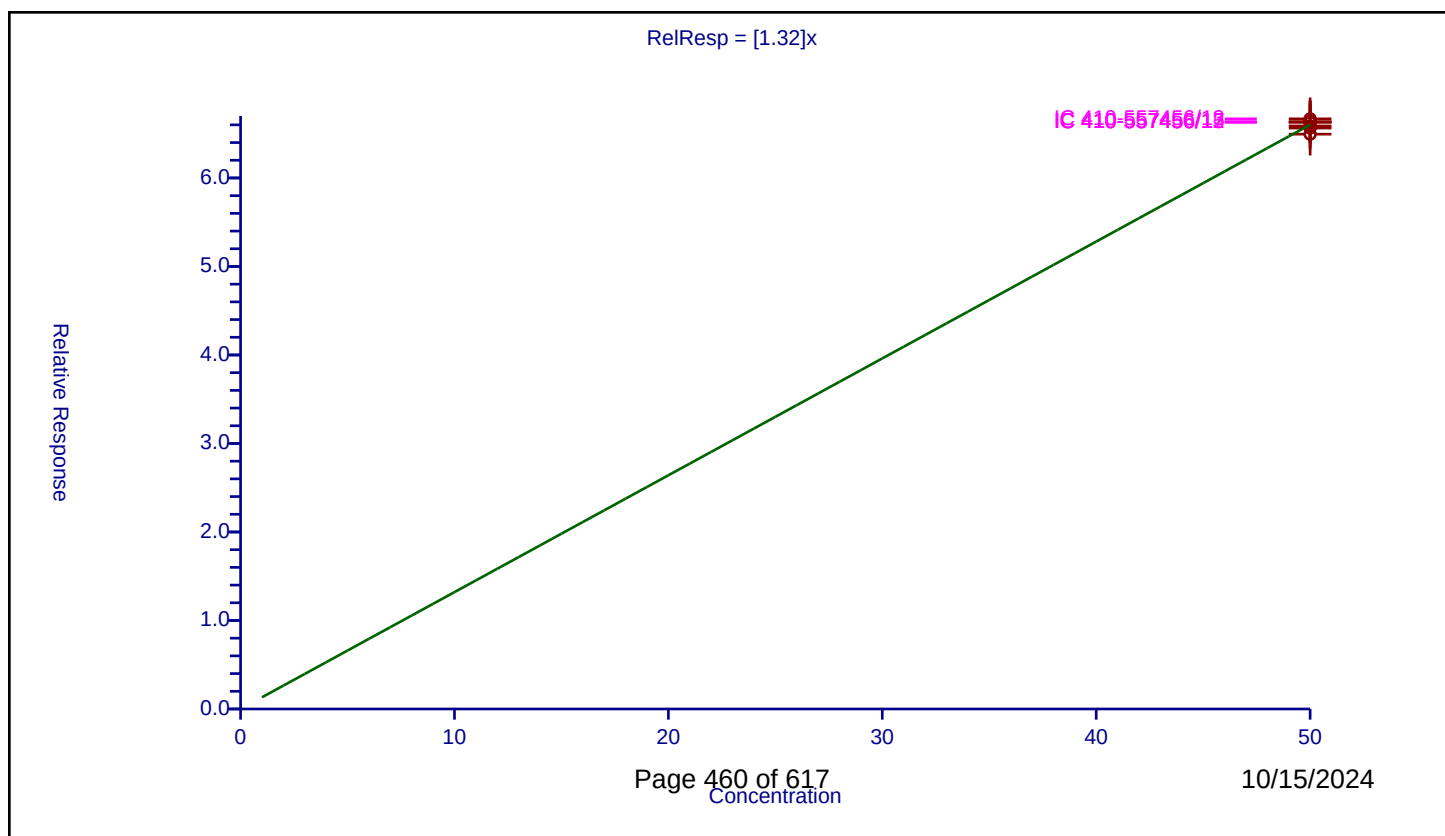
Curve Coefficients

Intercept: 0
 Slope: 1.32

Error Coefficients

Relative Standard Deviation: 0.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	50.0	66.311098	50.0	764363.0	1.326222	Y
2	IC 410-557456/13	50.0	66.681682	50.0	742596.0	1.333634	Y
3	IC 410-557456/14	50.0	65.876082	50.0	802802.0	1.317522	Y
4	IC 410-557456/15	50.0	66.337003	50.0	795660.0	1.32674	Y
5	ICIS 410-557456/16	50.0	65.639282	50.0	784435.0	1.312786	Y
6	IC 410-557456/17	50.0	66.323335	50.0	818111.0	1.326467	Y
7	IC 410-557456/18	50.0	64.947846	50.0	892453.0	1.298957	Y



Calibration

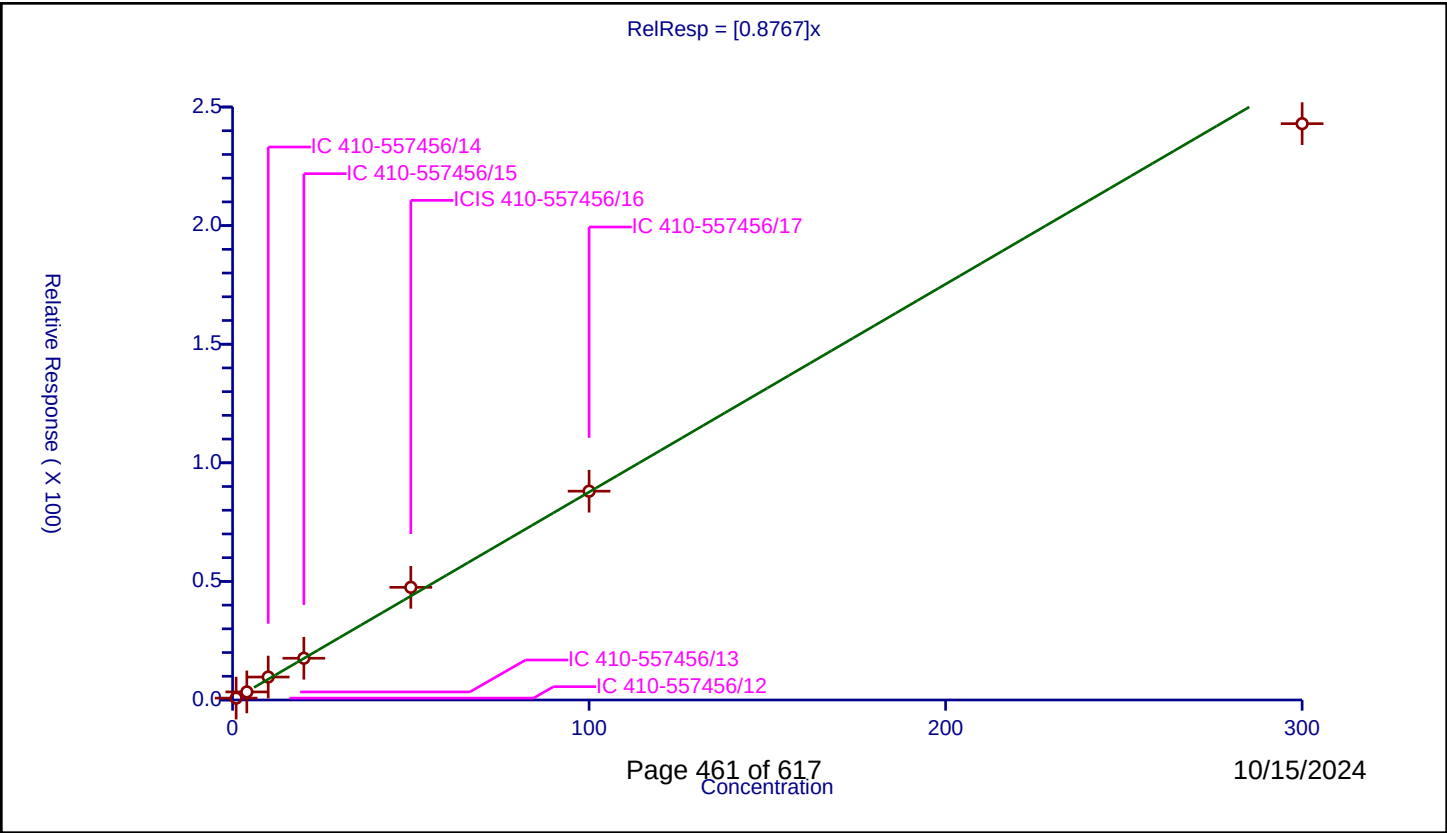
/ Toluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8767
Error Coefficients	

Relative Standard Deviation: 7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.797134	50.0	764363.0	0.797134	Y
2	IC 410-557456/13	4.0	3.405284	50.0	742596.0	0.851321	Y
3	IC 410-557456/14	10.0	9.678725	50.0	802802.0	0.967873	Y
4	IC 410-557456/15	20.0	17.600734	50.0	795660.0	0.880037	Y
5	ICIS 410-557456/16	50.0	47.493164	50.0	784435.0	0.949863	Y
6	IC 410-557456/17	100.0	88.038848	50.0	818111.0	0.880388	Y
7	IC 410-557456/18	300.0	242.986017	50.0	892453.0	0.809953	Y



Calibration

/ trans-1,3-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

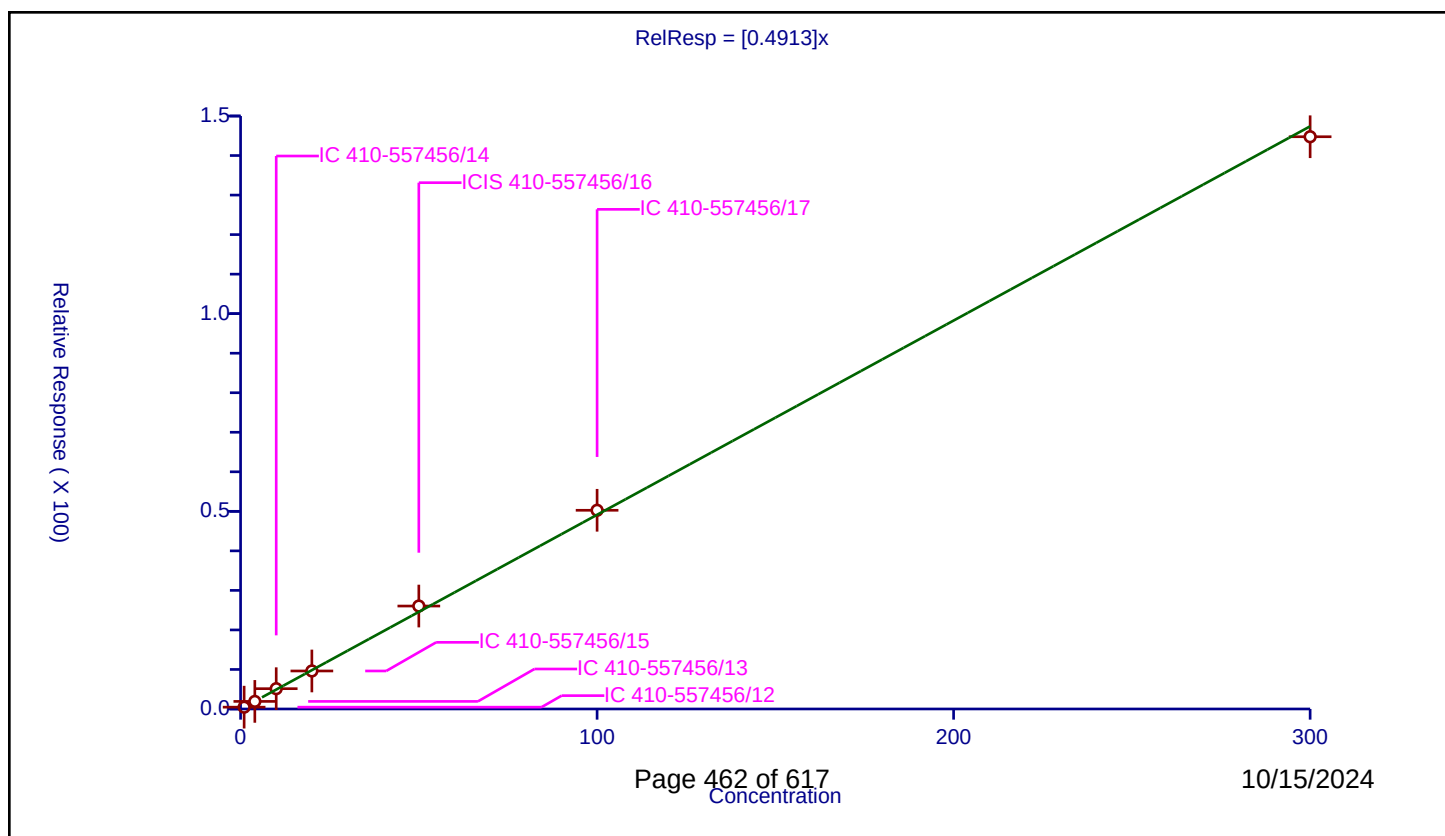
Curve Coefficients

Intercept: 0
Slope: 0.4913

Error Coefficients

Relative Standard Deviation: 4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.459402	50.0	764363.0	0.459402	Y
2	IC 410-557456/13	4.0	1.916655	50.0	742596.0	0.479164	Y
3	IC 410-557456/14	10.0	5.135139	50.0	802802.0	0.513514	Y
4	IC 410-557456/15	20.0	9.618556	50.0	795660.0	0.480928	Y
5	ICIS 410-557456/16	50.0	26.042056	50.0	784435.0	0.520841	Y
6	IC 410-557456/17	100.0	50.265062	50.0	818111.0	0.502651	Y
7	IC 410-557456/18	300.0	144.756026	50.0	892453.0	0.48252	Y



Calibration

/ Ethyl methacrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

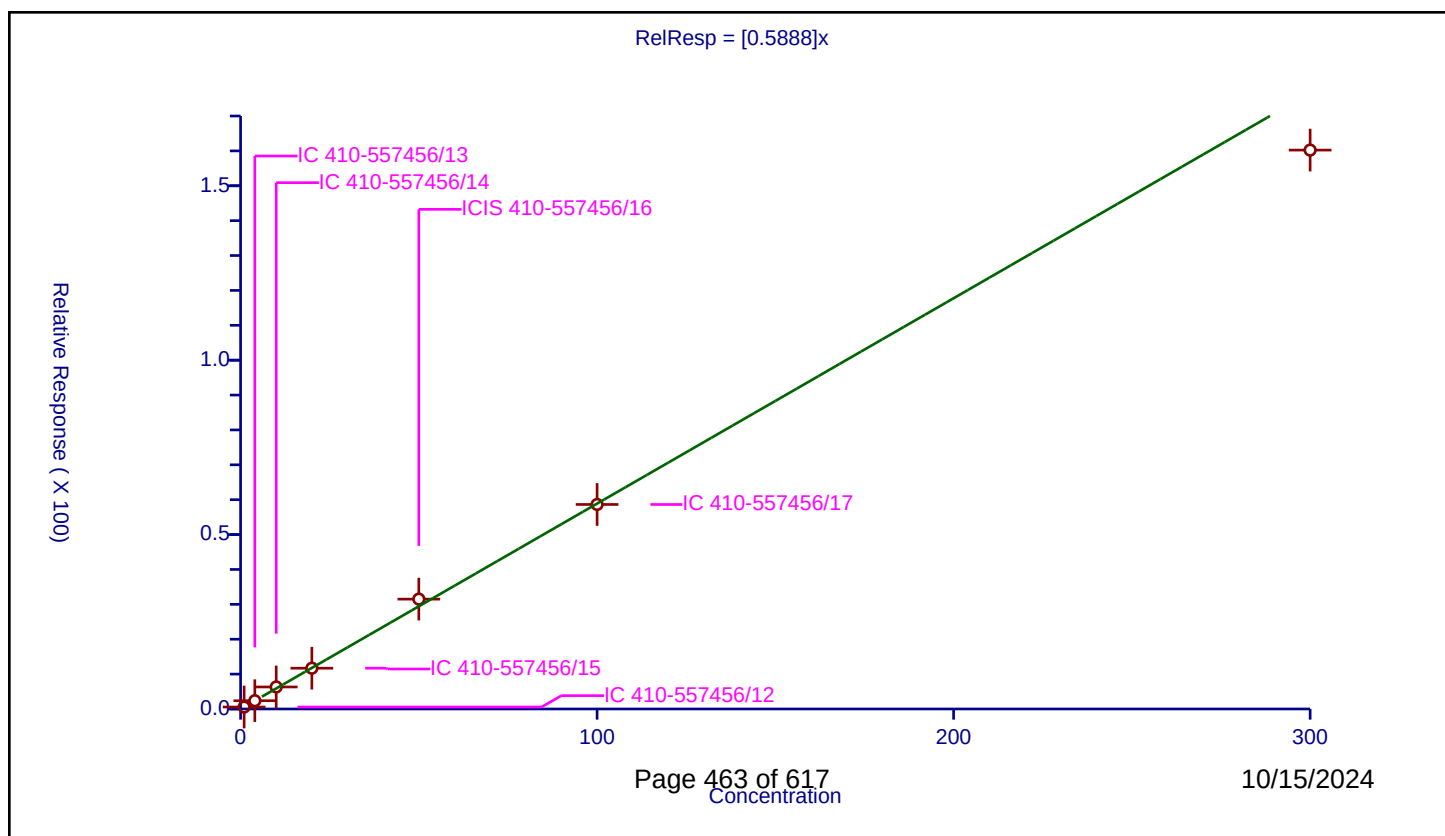
Curve Coefficients

Intercept: 0
 Slope: 0.5888

Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.562691	50.0	764363.0	0.562691	Y
2	IC 410-557456/13	4.0	2.370939	50.0	742596.0	0.592735	Y
3	IC 410-557456/14	10.0	6.307284	50.0	802802.0	0.630728	Y
4	IC 410-557456/15	20.0	11.696516	50.0	795660.0	0.584826	Y
5	ICIS 410-557456/16	50.0	31.495471	50.0	784435.0	0.629909	Y
6	IC 410-557456/17	100.0	58.633975	50.0	818111.0	0.58634	Y
7	IC 410-557456/18	300.0	160.23264	50.0	892453.0	0.534109	Y



Calibration

/ 1,1,2-Trichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

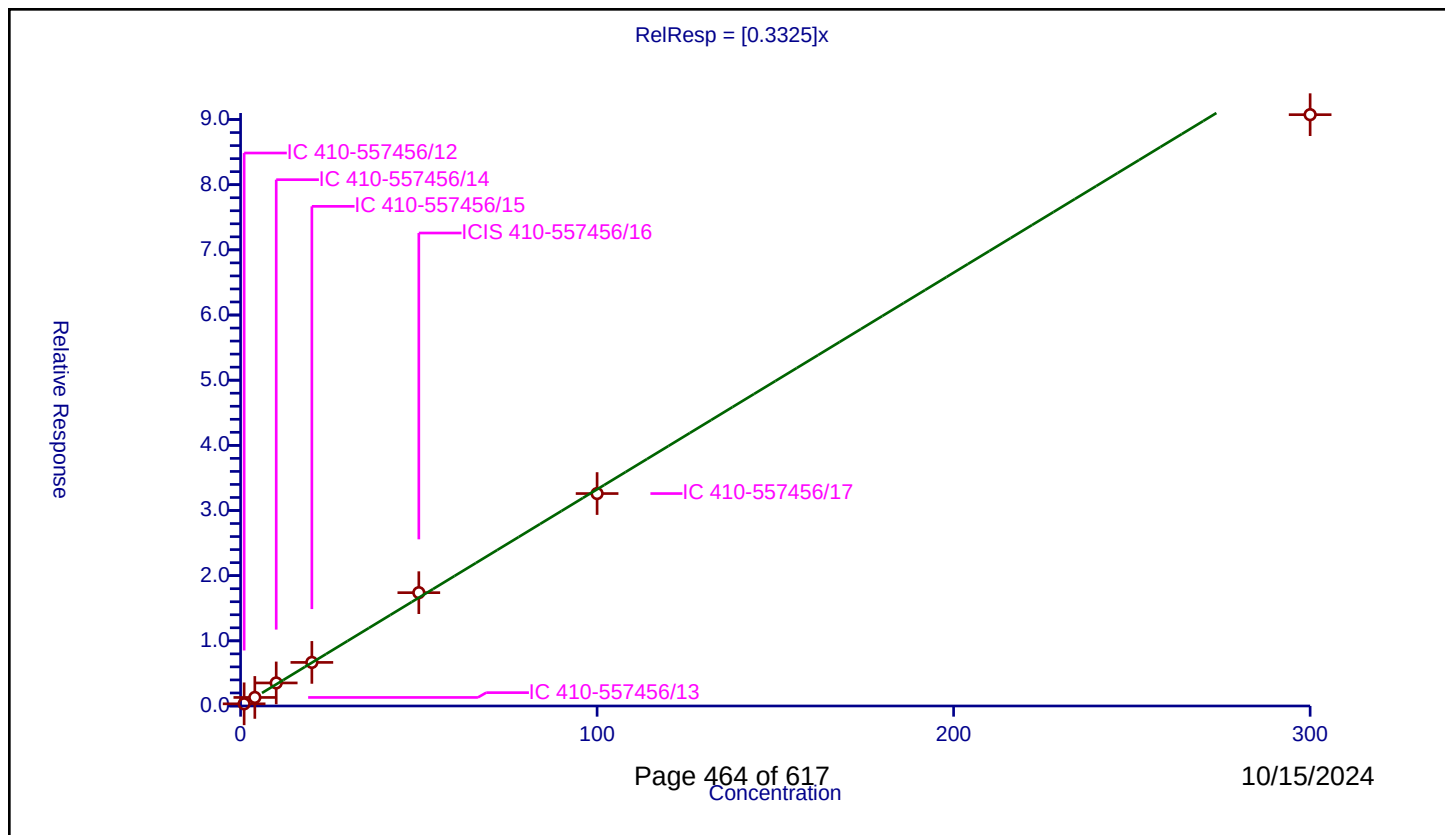
Curve Coefficients

Intercept: 0
Slope: 0.3325

Error Coefficients

Relative Standard Deviation: 5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.334527	50.0	764363.0	0.334527	Y
2	IC 410-557456/13	4.0	1.312558	50.0	742596.0	0.328139	Y
3	IC 410-557456/14	10.0	3.53817	50.0	802802.0	0.353817	Y
4	IC 410-557456/15	20.0	6.688975	50.0	795660.0	0.334449	Y
5	ICIS 410-557456/16	50.0	17.390988	50.0	784435.0	0.34782	Y
6	IC 410-557456/17	100.0	32.602483	50.0	818111.0	0.326025	Y
7	IC 410-557456/18	300.0	90.745283	50.0	892453.0	0.302484	Y



Calibration

/ Tetrachloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

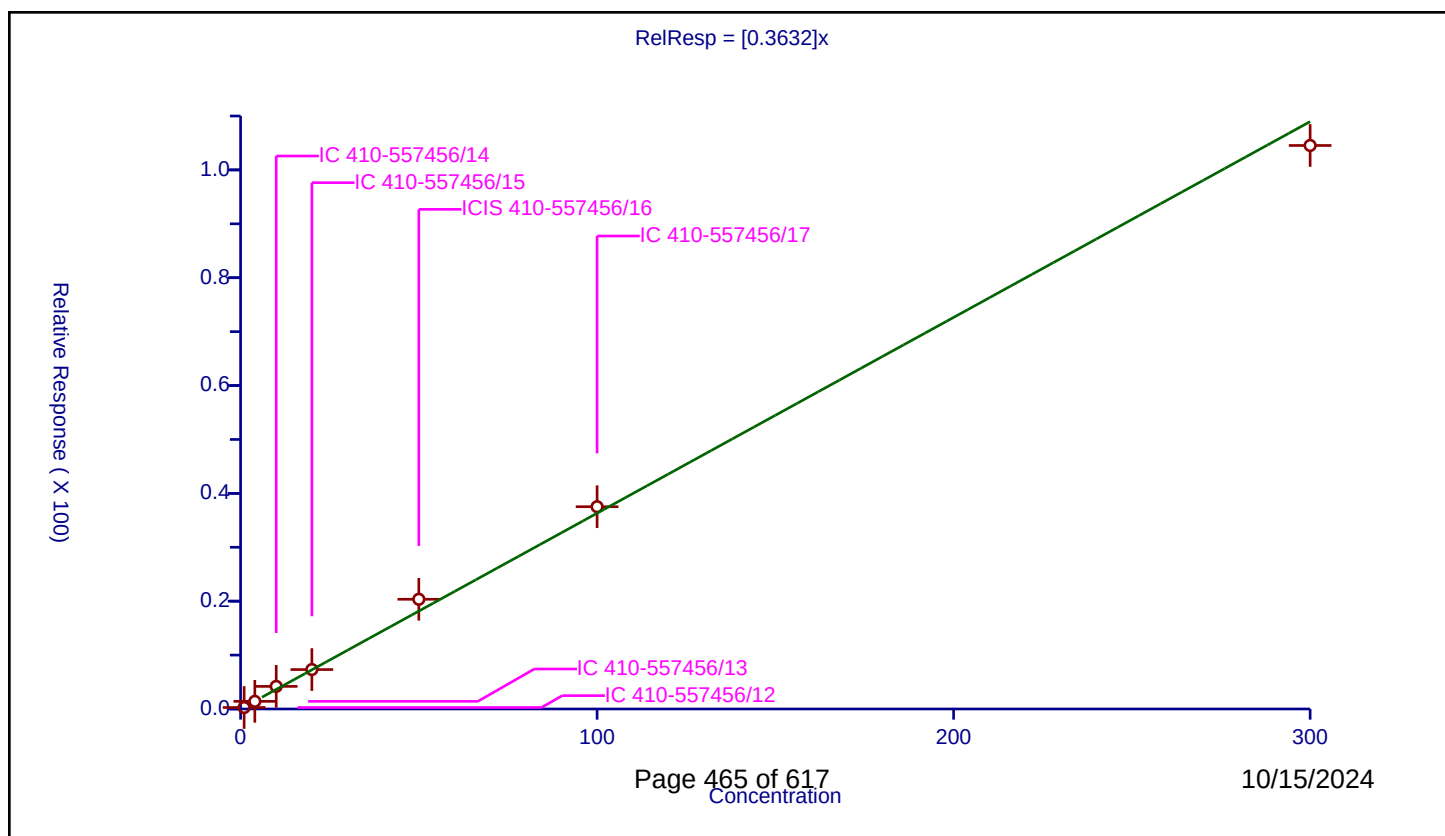
Curve Coefficients

Intercept: 0
Slope: 0.3632

Error Coefficients

Relative Standard Deviation: 13.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.272776	50.0	764363.0	0.272776	Y
2	IC 410-557456/13	4.0	1.417123	50.0	742596.0	0.354281	Y
3	IC 410-557456/14	10.0	4.190199	50.0	802802.0	0.41902	Y
4	IC 410-557456/15	20.0	7.311603	50.0	795660.0	0.36558	Y
5	ICIS 410-557456/16	50.0	20.353057	50.0	784435.0	0.407061	Y
6	IC 410-557456/17	100.0	37.52492	50.0	818111.0	0.375249	Y
7	IC 410-557456/18	300.0	104.535197	50.0	892453.0	0.348451	Y



Calibration

/ 1,3-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

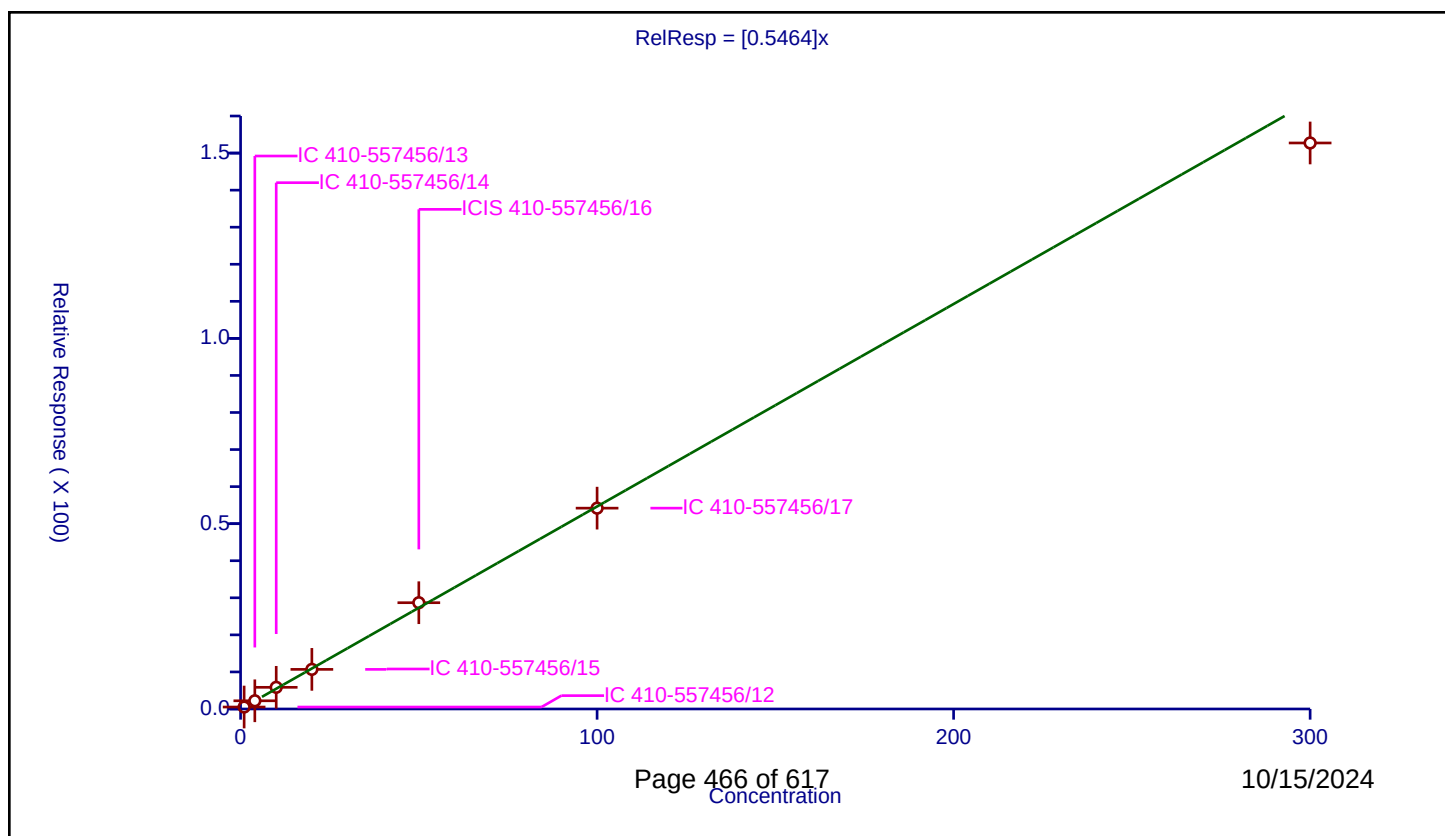
Curve Coefficients

Intercept: 0
Slope: 0.5464

Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.528152	50.0	764363.0	0.528152	Y
2	IC 410-557456/13	4.0	2.210691	50.0	742596.0	0.552673	Y
3	IC 410-557456/14	10.0	5.847955	50.0	802802.0	0.584796	Y
4	IC 410-557456/15	20.0	10.68704	50.0	795660.0	0.534352	Y
5	ICIS 410-557456/16	50.0	28.677519	50.0	784435.0	0.57355	Y
6	IC 410-557456/17	100.0	54.190813	50.0	818111.0	0.541908	Y
7	IC 410-557456/18	300.0	152.727763	50.0	892453.0	0.509093	Y



Calibration

/ 2-Hexanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

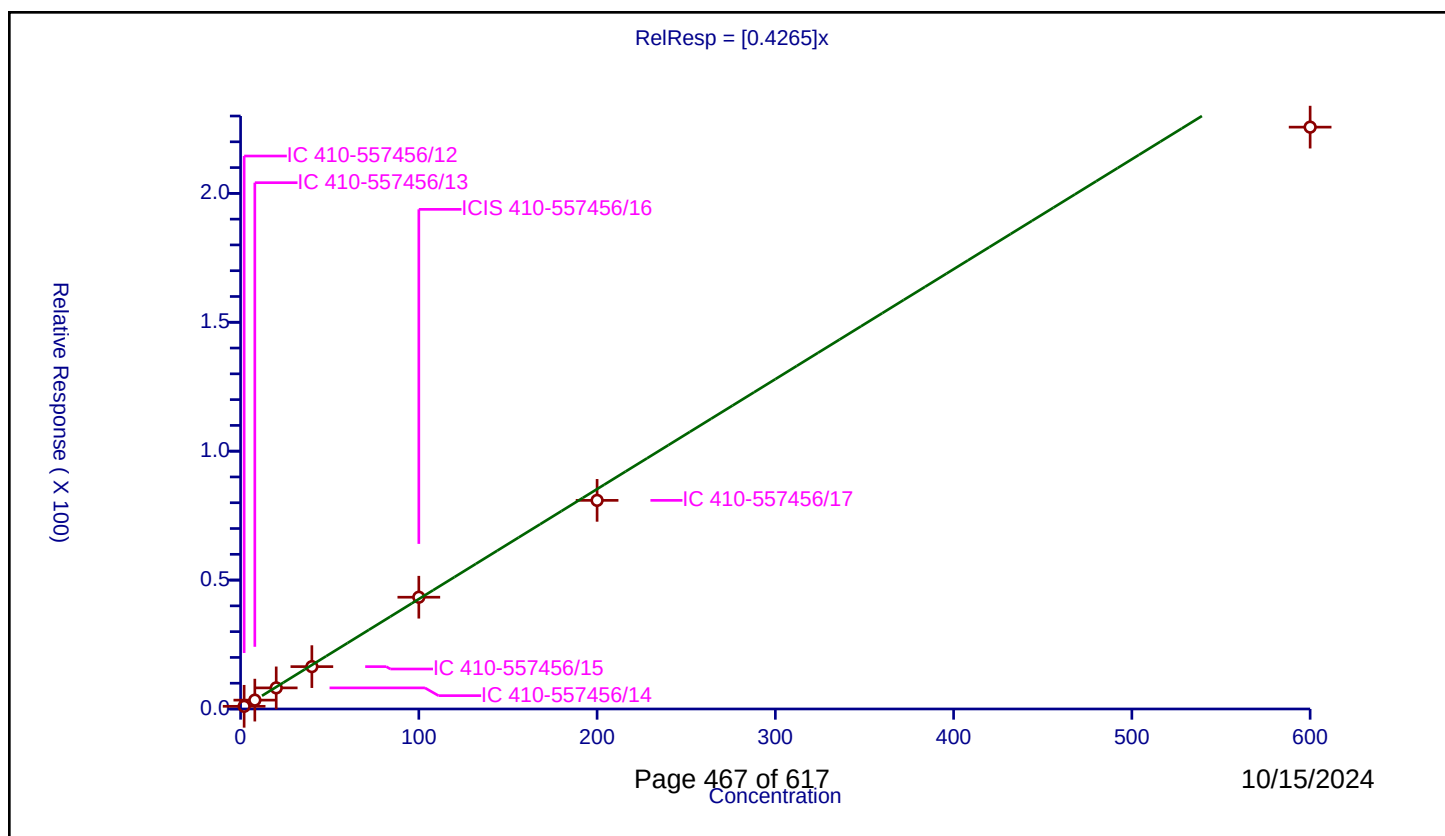
Curve Coefficients

Intercept: 0
Slope: 0.4265

Error Coefficients

Relative Standard Deviation: 10.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	2.0	1.042371	50.0	764363.0	0.521186	Y
2	IC 410-557456/13	8.0	3.439757	50.0	742596.0	0.42997	Y
3	IC 410-557456/14	20.0	8.183836	50.0	802802.0	0.409192	Y
4	IC 410-557456/15	40.0	16.428562	50.0	795660.0	0.410714	Y
5	ICIS 410-557456/16	100.0	43.351584	50.0	784435.0	0.433516	Y
6	IC 410-557456/17	200.0	80.916526	50.0	818111.0	0.404583	Y
7	IC 410-557456/18	600.0	225.691437	50.0	892453.0	0.376152	Y



Calibration

/ Chlorodibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

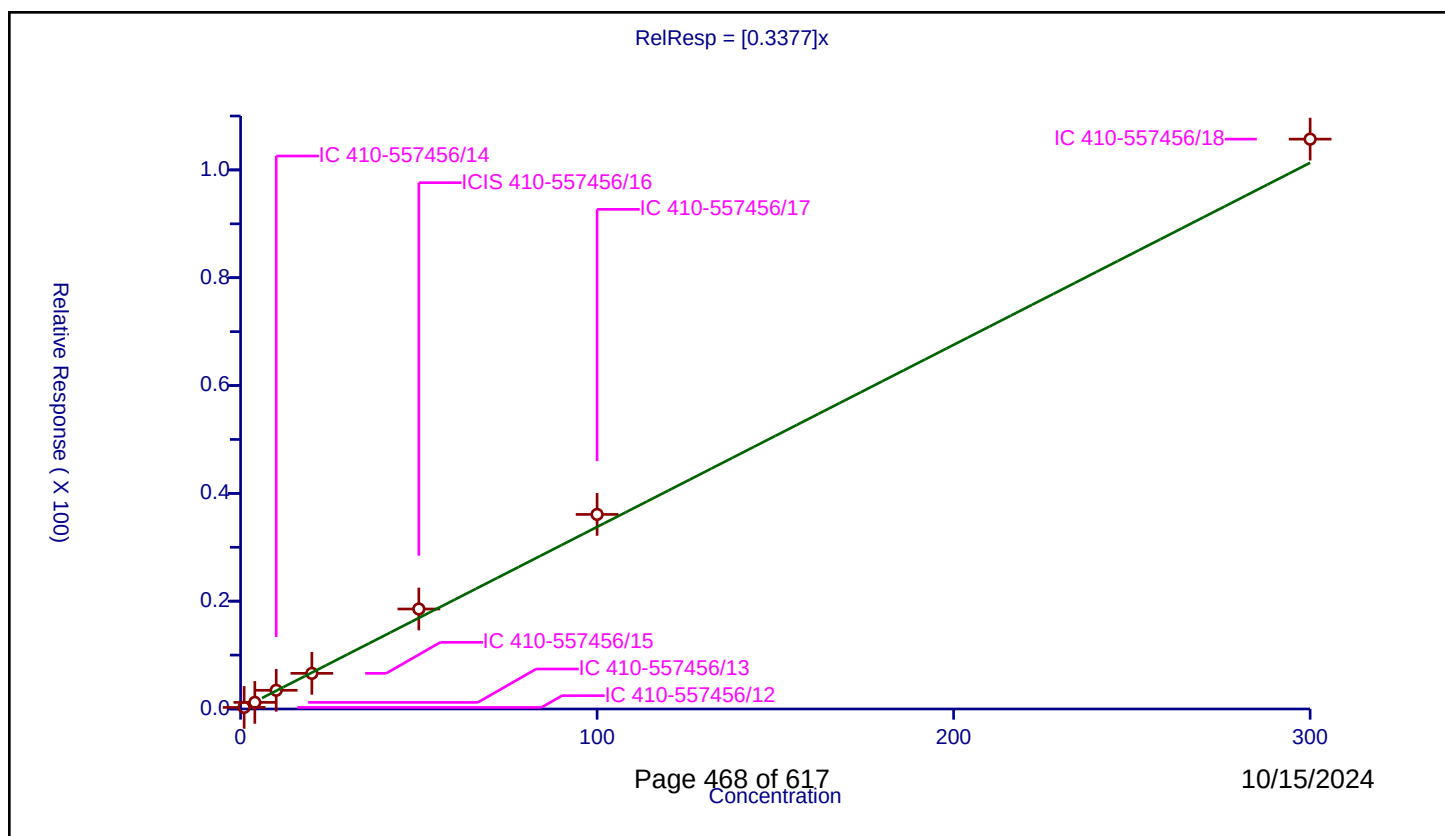
Curve Coefficients

Intercept: 0
Slope: 0.3377

Error Coefficients

Relative Standard Deviation: 8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.296194	50.0	764363.0	0.296194	Y
2	IC 410-557456/13	4.0	1.224219	50.0	742596.0	0.306055	Y
3	IC 410-557456/14	10.0	3.471466	50.0	802802.0	0.347147	Y
4	IC 410-557456/15	20.0	6.610236	50.0	795660.0	0.330512	Y
5	ICIS 410-557456/16	50.0	18.549083	50.0	784435.0	0.370982	Y
6	IC 410-557456/17	100.0	36.095408	50.0	818111.0	0.360954	Y
7	IC 410-557456/18	300.0	105.710385	50.0	892453.0	0.352368	Y



Calibration

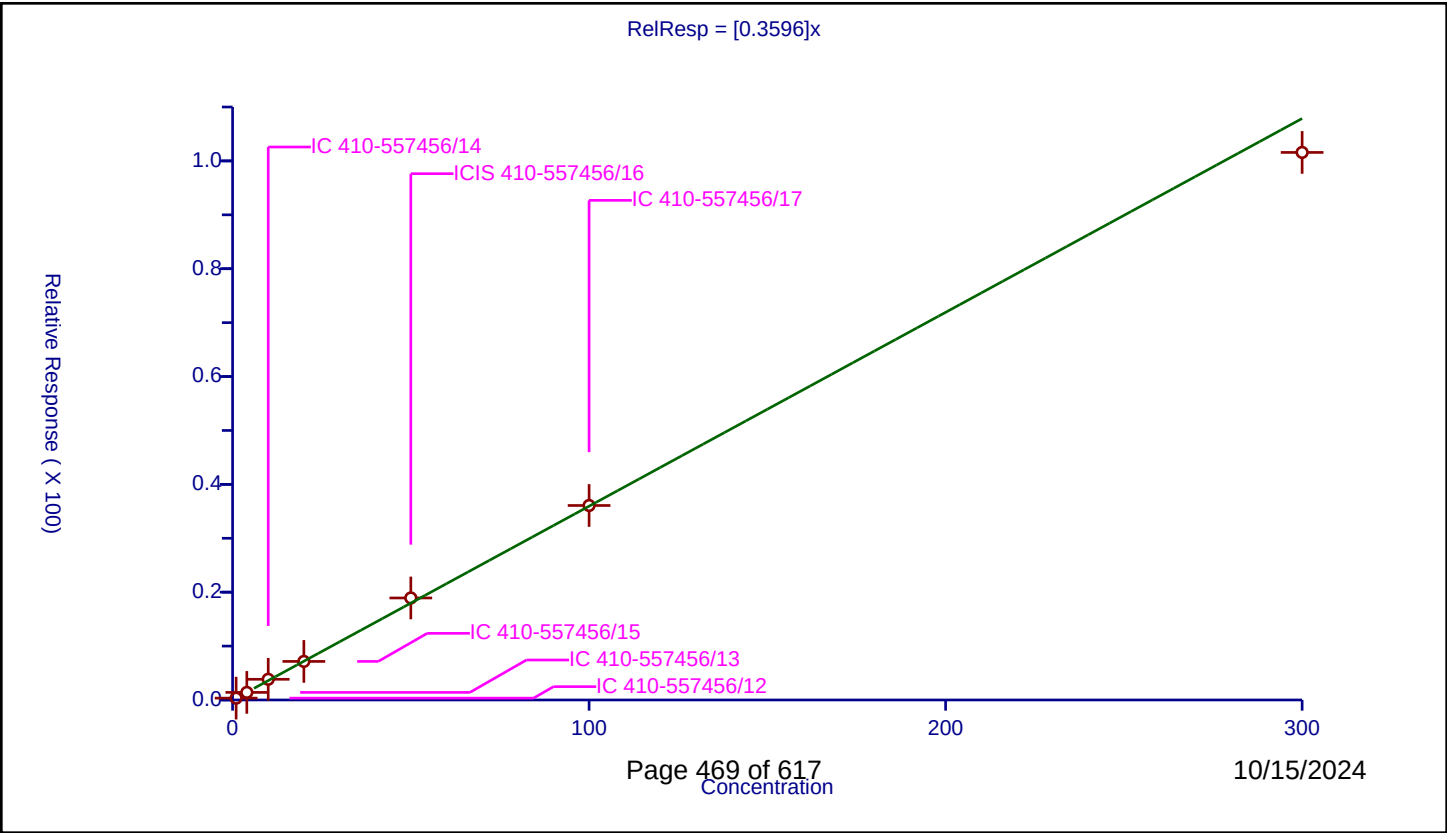
/ Ethylene Dibromide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3596
Error Coefficients	

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.346105	50.0	764363.0	0.346105	Y
2	IC 410-557456/13	4.0	1.404936	50.0	742596.0	0.351234	Y
3	IC 410-557456/14	10.0	3.838867	50.0	802802.0	0.383887	Y
4	IC 410-557456/15	20.0	7.155695	50.0	795660.0	0.357785	Y
5	ICIS 410-557456/16	50.0	18.924959	50.0	784435.0	0.378499	Y
6	IC 410-557456/17	100.0	36.078051	50.0	818111.0	0.360781	Y
7	IC 410-557456/18	300.0	101.577842	50.0	892453.0	0.338593	Y



Calibration

/ 1-Chlorohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

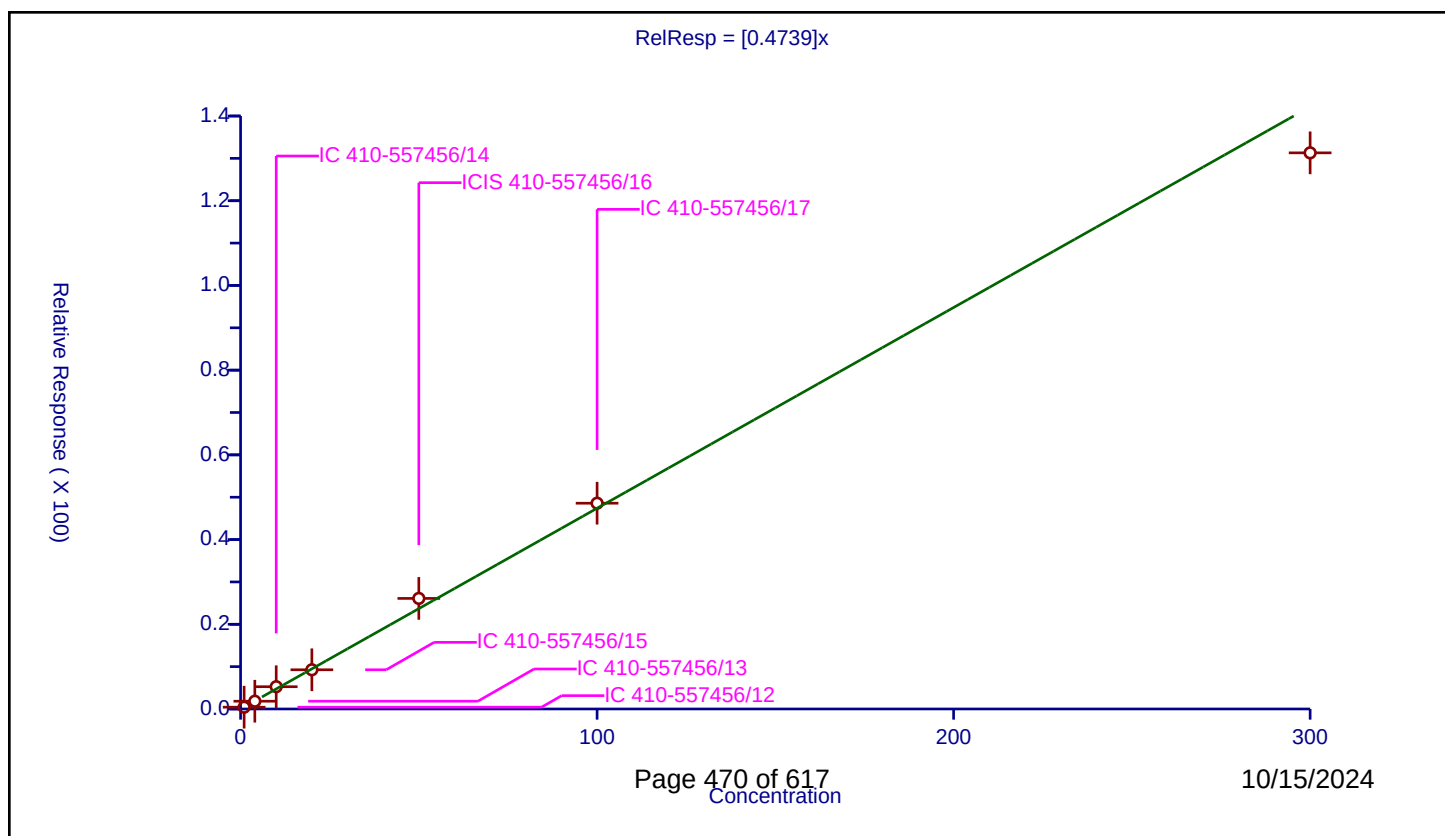
Curve Coefficients

Intercept: 0
Slope: 0.4739

Error Coefficients

Relative Standard Deviation: 8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.423752	50.0	764363.0	0.423752	Y
2	IC 410-557456/13	4.0	1.837069	50.0	742596.0	0.459267	Y
3	IC 410-557456/14	10.0	5.261011	50.0	802802.0	0.526101	Y
4	IC 410-557456/15	20.0	9.255398	50.0	795660.0	0.46277	Y
5	ICIS 410-557456/16	50.0	26.107134	50.0	784435.0	0.522143	Y
6	IC 410-557456/17	100.0	48.57996	50.0	818111.0	0.4858	Y
7	IC 410-557456/18	300.0	131.306242	50.0	892453.0	0.437687	Y



Calibration

/ Chlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

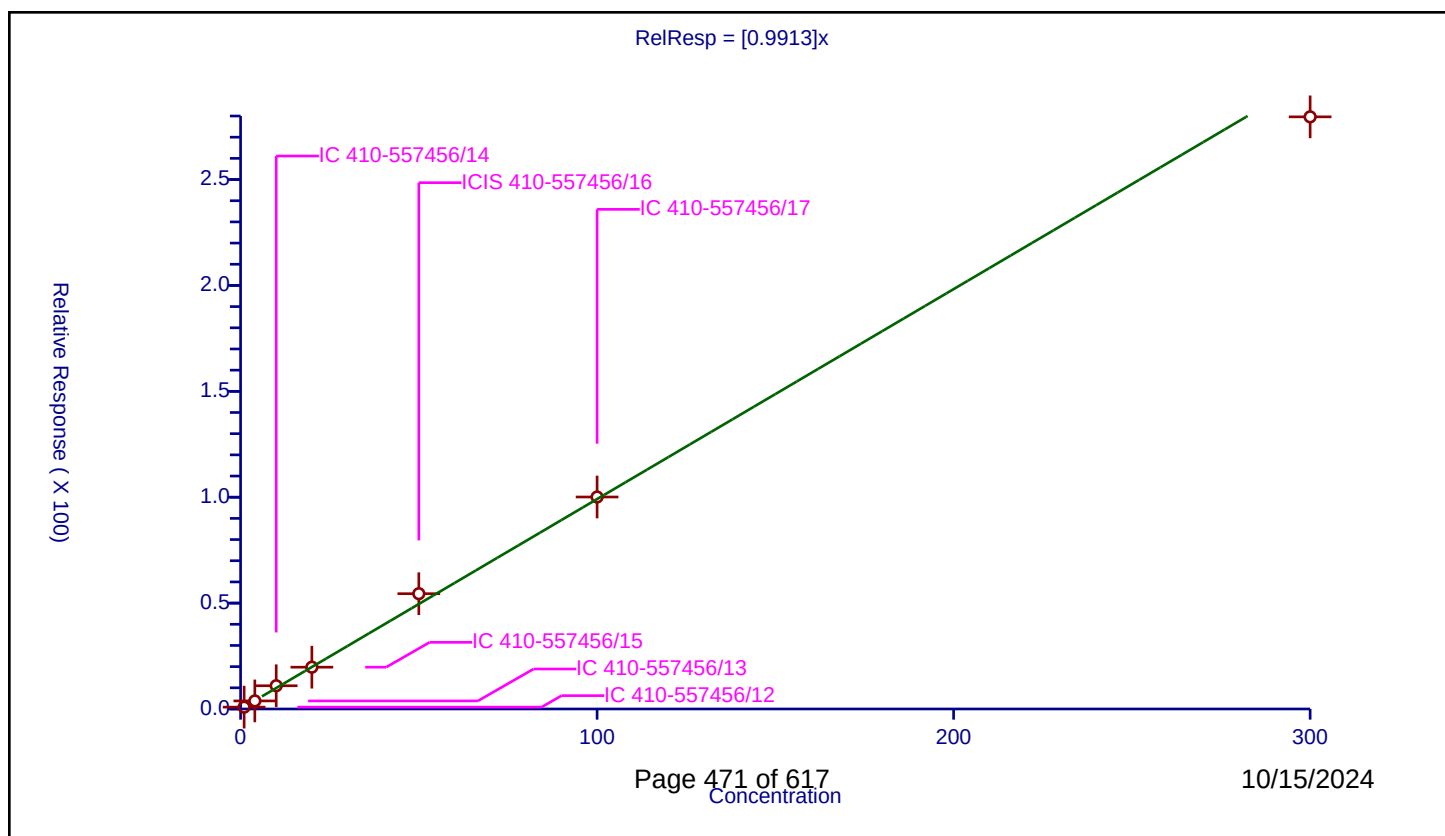
Curve Coefficients

Intercept: 0
Slope: 0.9913

Error Coefficients

Relative Standard Deviation: 8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.879294	50.0	764363.0	0.879294	Y
2	IC 410-557456/13	4.0	3.811157	50.0	742596.0	0.952789	Y
3	IC 410-557456/14	10.0	10.979731	50.0	802802.0	1.097973	Y
4	IC 410-557456/15	20.0	19.740153	50.0	795660.0	0.987008	Y
5	ICIS 410-557456/16	50.0	54.442242	50.0	784435.0	1.088845	Y
6	IC 410-557456/17	100.0	100.098092	50.0	818111.0	1.000981	Y
7	IC 410-557456/18	300.0	279.605481	50.0	892453.0	0.932018	Y



Calibration

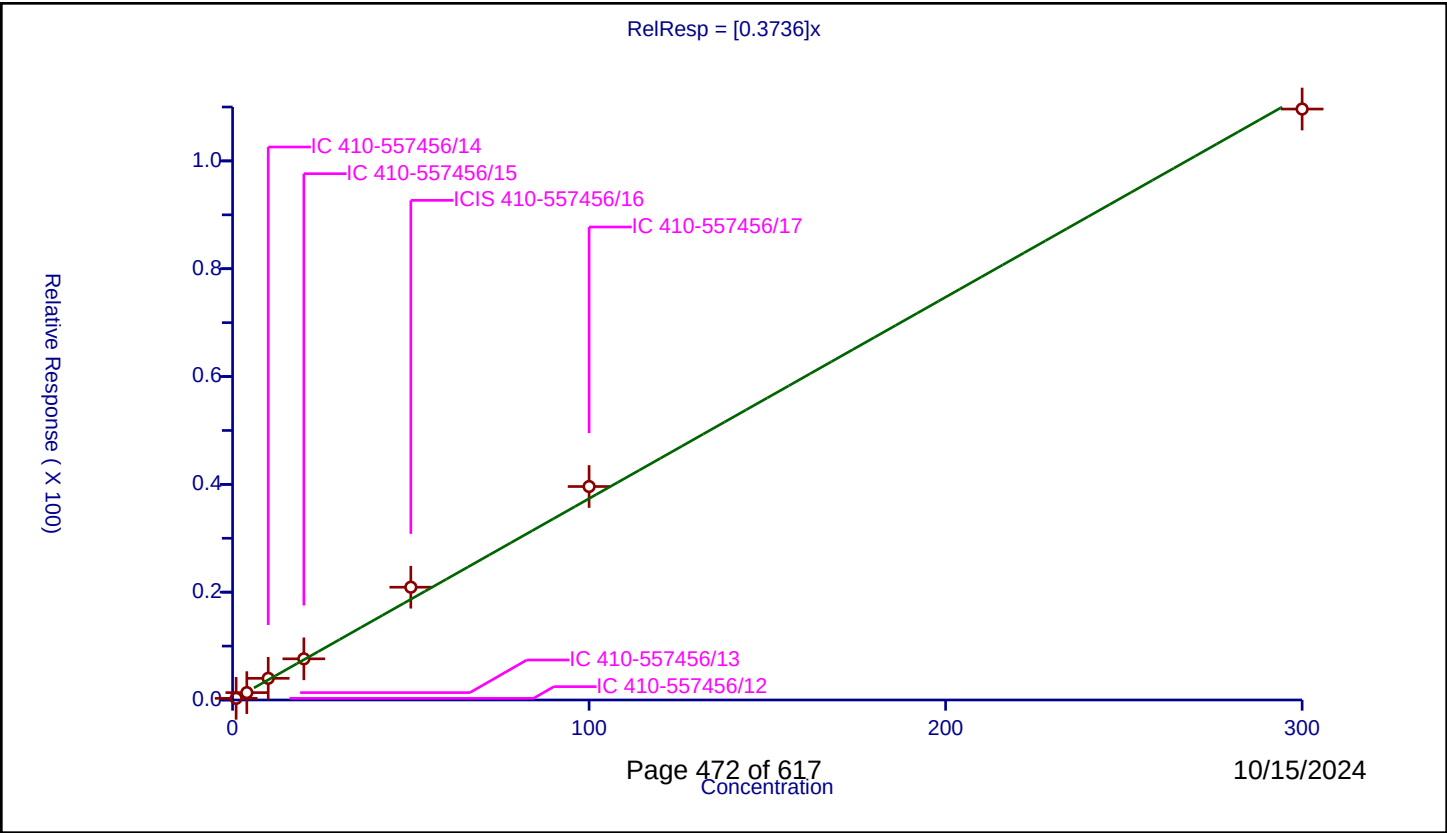
/ 1,1,1,2-Tetrachloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3736
Error Coefficients	

Relative Standard Deviation: 10.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.309604	50.0	764363.0	0.309604	Y
2	IC 410-557456/13	4.0	1.368712	50.0	742596.0	0.342178	Y
3	IC 410-557456/14	10.0	4.021477	50.0	802802.0	0.402148	Y
4	IC 410-557456/15	20.0	7.633474	50.0	795660.0	0.381674	Y
5	ICIS 410-557456/16	50.0	20.921619	50.0	784435.0	0.418432	Y
6	IC 410-557456/17	100.0	39.601717	50.0	818111.0	0.396017	Y
7	IC 410-557456/18	300.0	109.625885	50.0	892453.0	0.36542	Y



Calibration

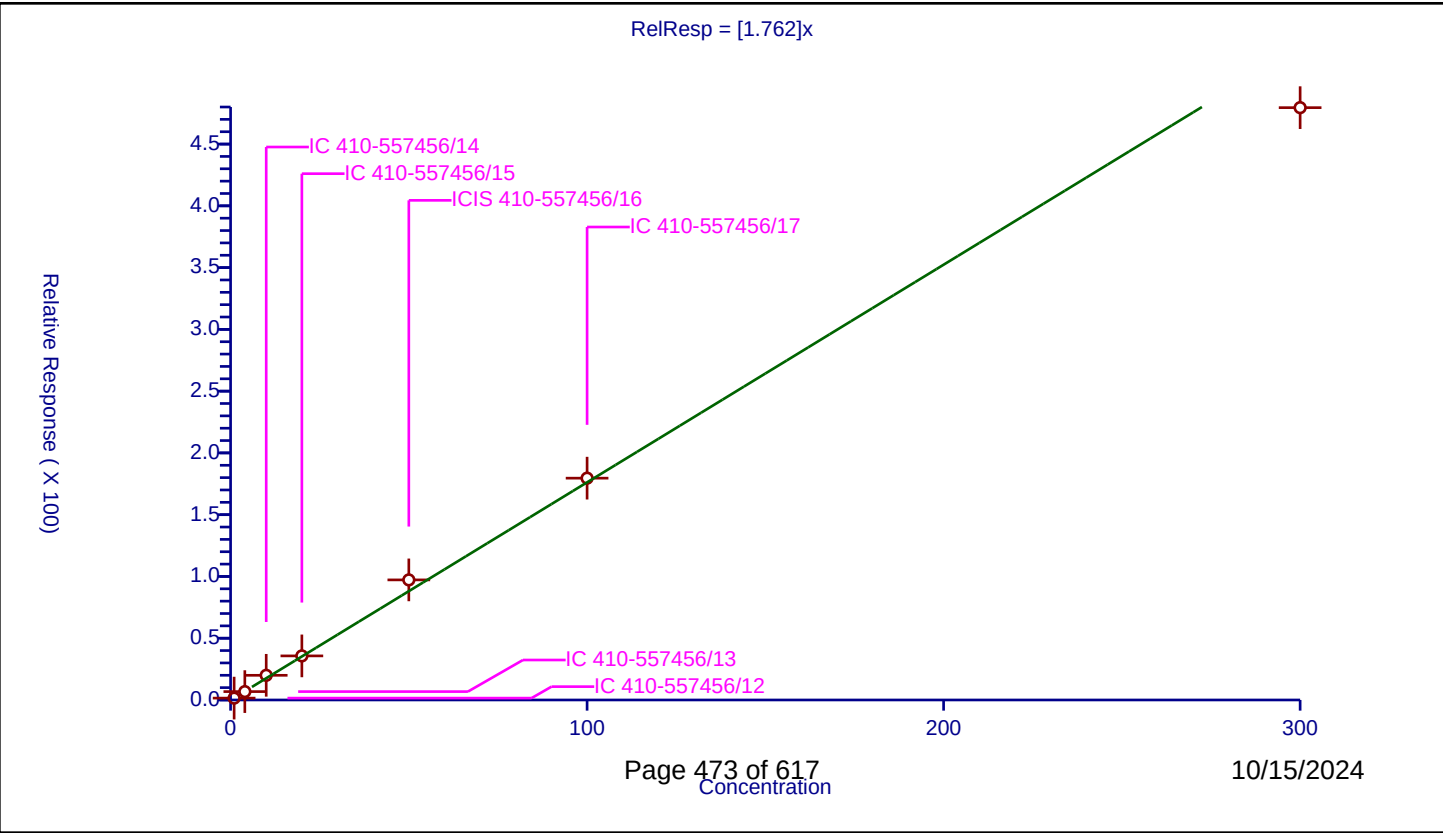
/ Ethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.762
Error Coefficients	

Relative Standard Deviation: 9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	1.512763	50.0	764363.0	1.512763	Y
2	IC 410-557456/13	4.0	6.798784	50.0	742596.0	1.699696	Y
3	IC 410-557456/14	10.0	19.970989	50.0	802802.0	1.997099	Y
4	IC 410-557456/15	20.0	35.695712	50.0	795660.0	1.784786	Y
5	ICIS 410-557456/16	50.0	97.202828	50.0	784435.0	1.944057	Y
6	IC 410-557456/17	100.0	179.563409	50.0	818111.0	1.795634	Y
7	IC 410-557456/18	300.0	479.47158	50.0	892453.0	1.598239	Y



Calibration

/ m-Xylene & p-Xylene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

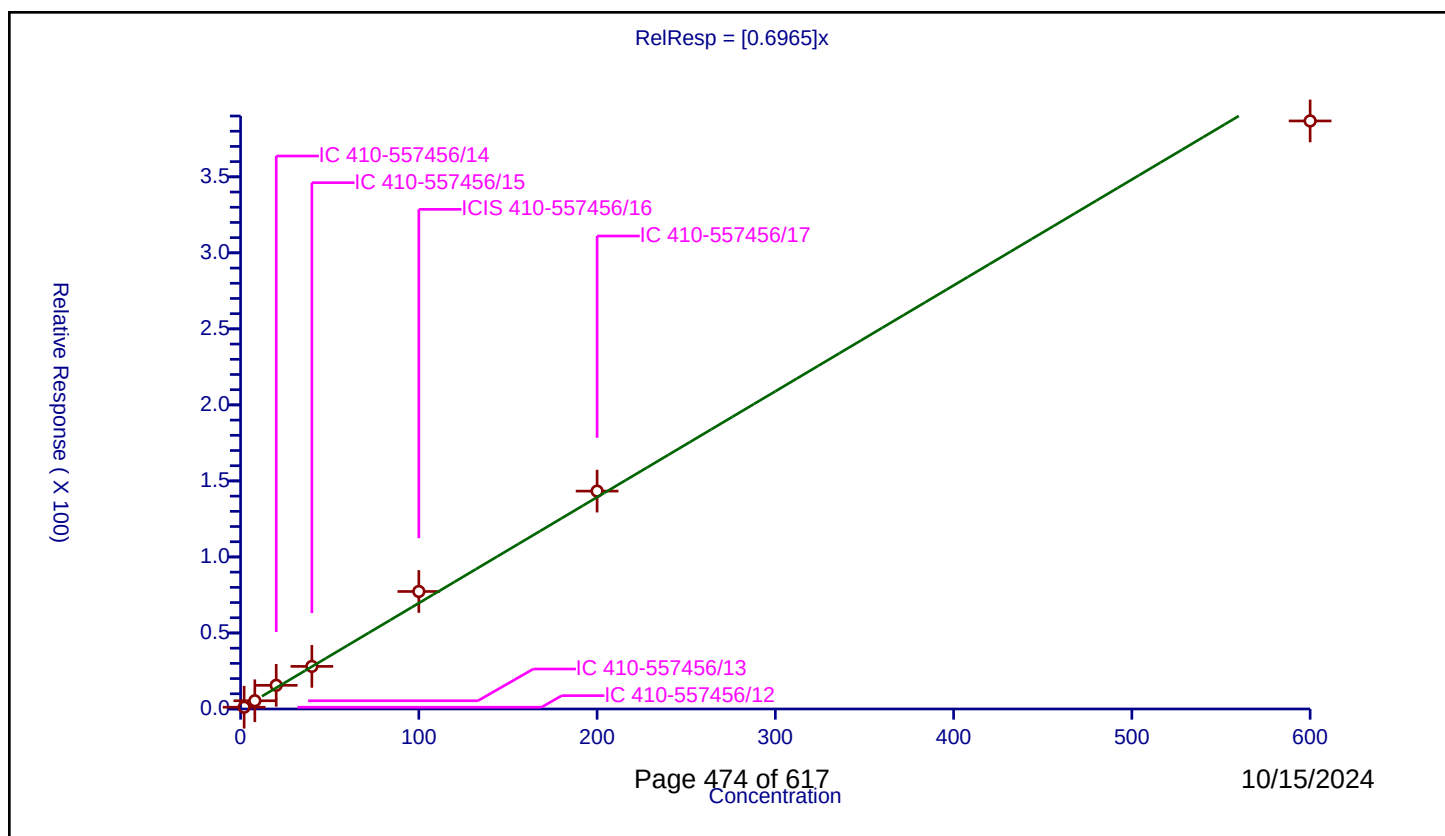
Curve Coefficients

Intercept: 0
 Slope: 0.6965

Error Coefficients

Relative Standard Deviation: 9.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	2.0	1.173003	50.0	764363.0	0.586501	Y
2	IC 410-557456/13	8.0	5.407449	50.0	742596.0	0.675931	Y
3	IC 410-557456/14	20.0	15.567164	50.0	802802.0	0.778358	Y
4	IC 410-557456/15	40.0	28.016427	50.0	795660.0	0.700411	Y
5	ICIS 410-557456/16	100.0	77.291554	50.0	784435.0	0.772916	Y
6	IC 410-557456/17	200.0	143.295103	50.0	818111.0	0.716476	Y
7	IC 410-557456/18	600.0	386.748714	50.0	892453.0	0.644581	Y



Calibration

/ n-Butyl acrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

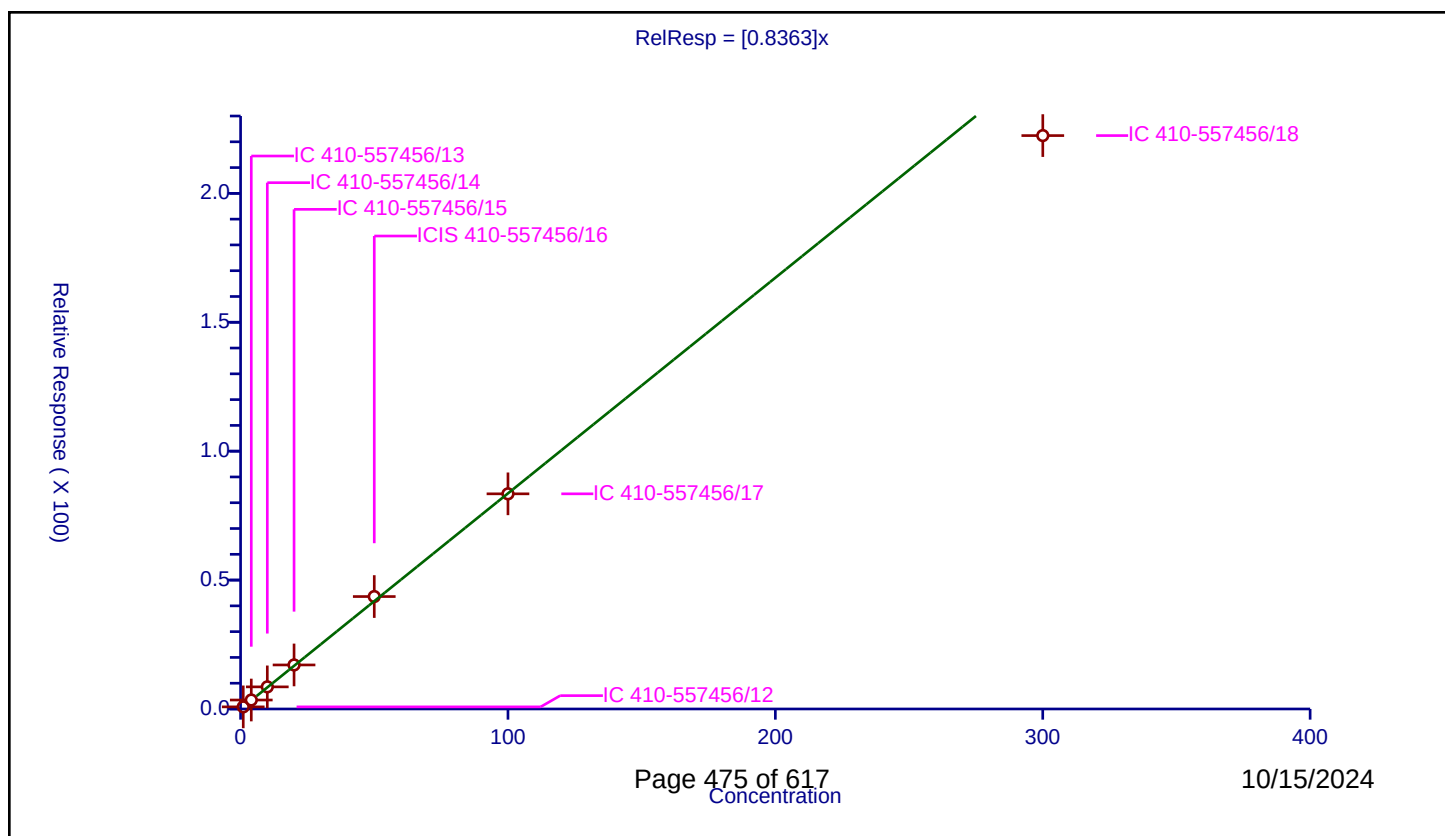
Curve Coefficients

Intercept: 0
 Slope: 0.8363

Error Coefficients

Relative Standard Deviation: 5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.000071	0.823758	50.0	764363.0	0.823699	Y
2	IC 410-557456/13	4.000285	3.482243	50.0	742596.0	0.870499	Y
3	IC 410-557456/14	10.000712	8.577395	50.0	802802.0	0.857678	Y
4	IC 410-557456/15	20.001424	17.083553	50.0	795660.0	0.854117	Y
5	ICIS 410-557456/16	50.00356	43.616488	50.0	784435.0	0.872268	Y
6	IC 410-557456/17	100.00712	83.458602	50.0	818111.0	0.834527	Y
7	IC 410-557456/18	300.02136	222.4102	50.0	892453.0	0.741315	Y

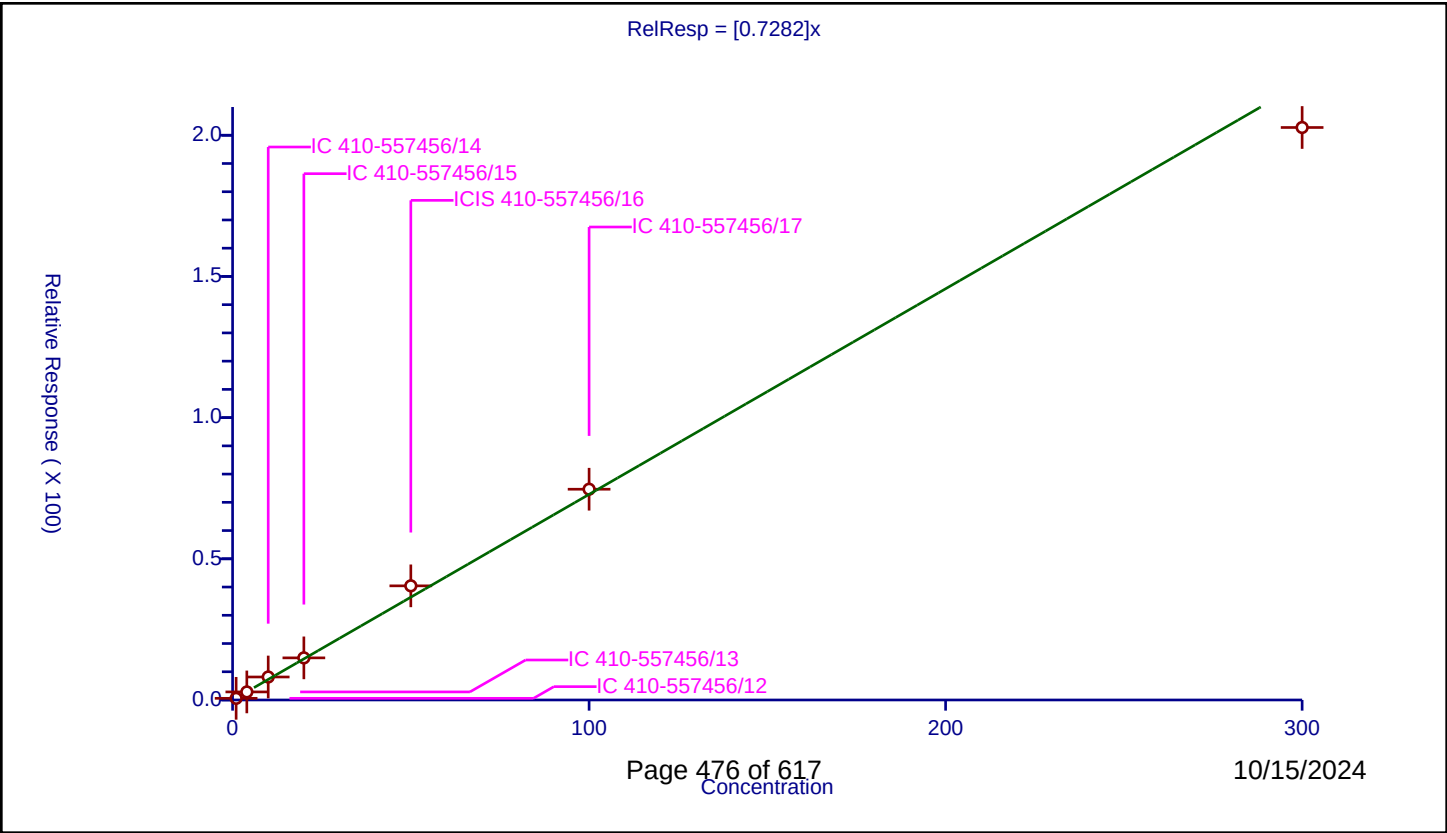


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7282

Error Coefficients	
Relative Standard Deviation:	10.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.592977	50.0	764363.0	0.592977	Y
2	IC 410-557456/13	4.0	2.853638	50.0	742596.0	0.713409	Y
3	IC 410-557456/14	10.0	8.143789	50.0	802802.0	0.814379	Y
4	IC 410-557456/15	20.0	14.915353	50.0	795660.0	0.745768	Y
5	ICIS 410-557456/16	50.0	40.421769	50.0	784435.0	0.808435	Y
6	IC 410-557456/17	100.0	74.643416	50.0	818111.0	0.746434	Y
7	IC 410-557456/18	300.0	202.747764	50.0	892453.0	0.675826	Y

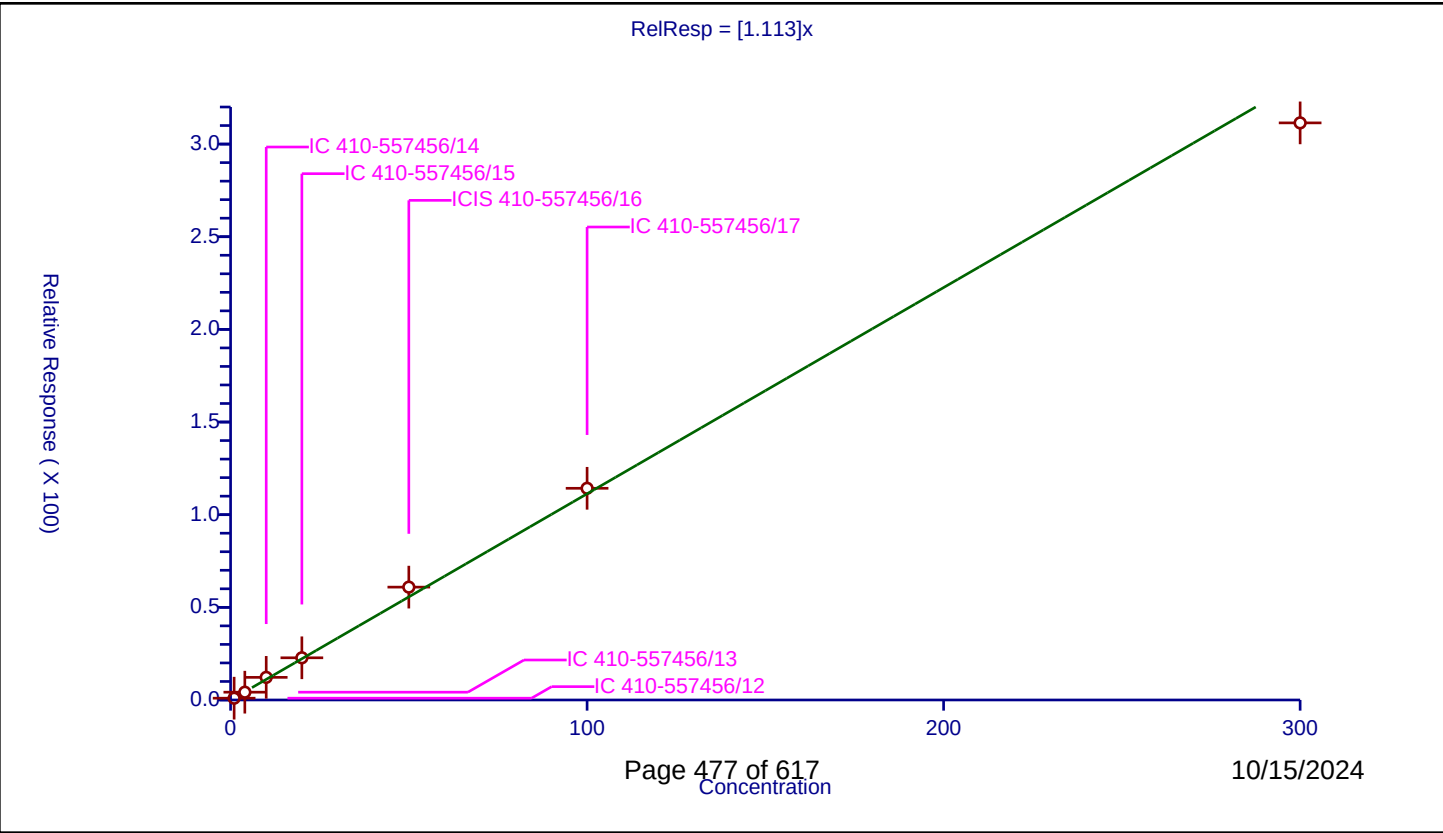


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.113

Error Coefficients	
Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.977546	50.0	764363.0	0.977546	Y
2	IC 410-557456/13	4.0	4.214674	50.0	742596.0	1.053668	Y
3	IC 410-557456/14	10.0	12.215964	50.0	802802.0	1.221596	Y
4	IC 410-557456/15	20.0	22.769022	50.0	795660.0	1.138451	Y
5	ICIS 410-557456/16	50.0	60.904218	50.0	784435.0	1.218084	Y
6	IC 410-557456/17	100.0	114.24116	50.0	818111.0	1.142412	Y
7	IC 410-557456/18	300.0	311.441443	50.0	892453.0	1.038138	Y



Calibration

/ Bromoform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

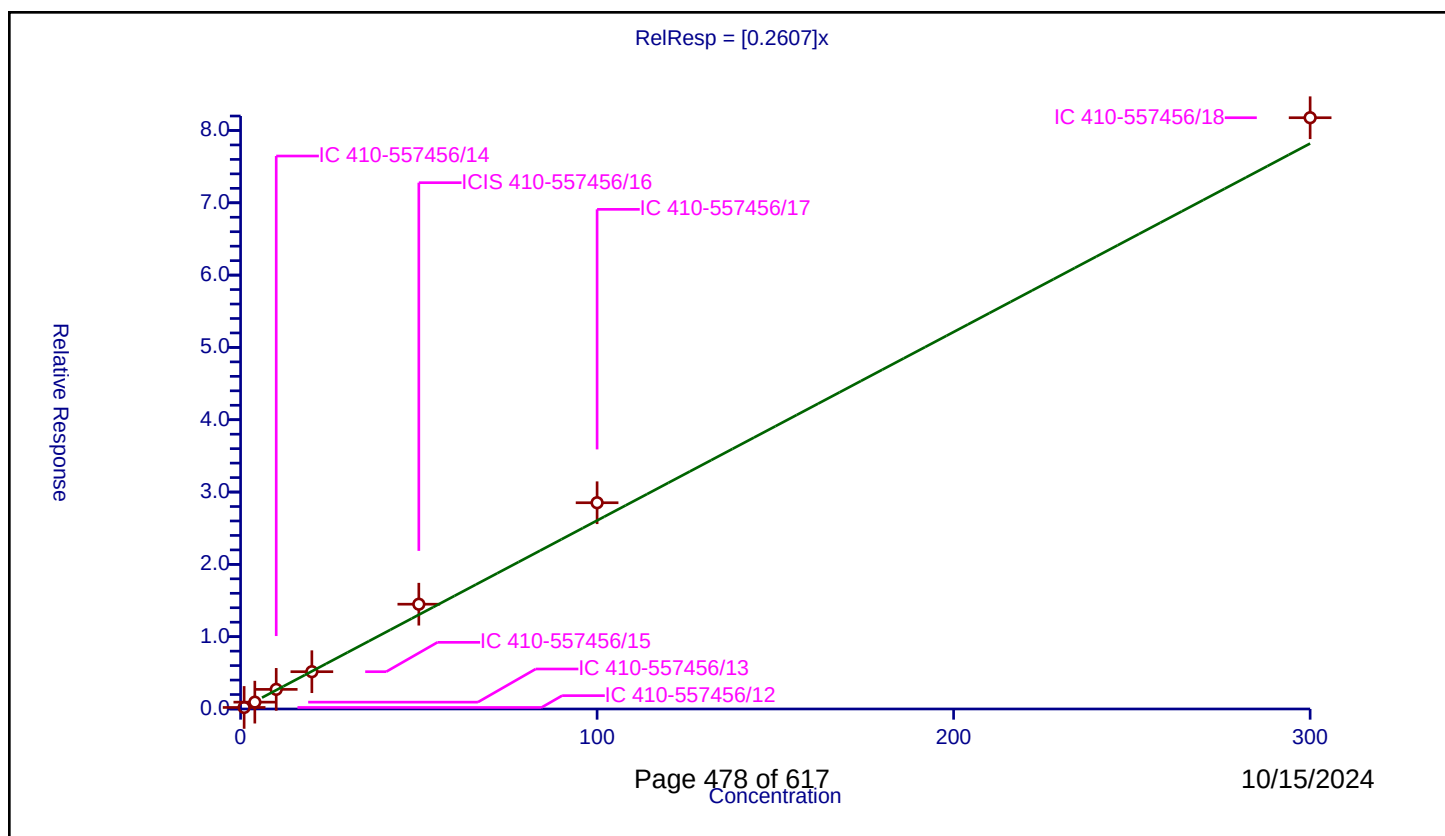
Curve Coefficients

Intercept: 0
Slope: 0.2607

Error Coefficients

Relative Standard Deviation: 10.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.211549	50.0	764363.0	0.211549	Y
2	IC 410-557456/13	4.0	0.945938	50.0	742596.0	0.236485	Y
3	IC 410-557456/14	10.0	2.711378	50.0	802802.0	0.271138	Y
4	IC 410-557456/15	20.0	5.156977	50.0	795660.0	0.257849	Y
5	ICIS 410-557456/16	50.0	14.490047	50.0	784435.0	0.289801	Y
6	IC 410-557456/17	100.0	28.523085	50.0	818111.0	0.285231	Y
7	IC 410-557456/18	300.0	81.762177	50.0	892453.0	0.272541	Y



Calibration

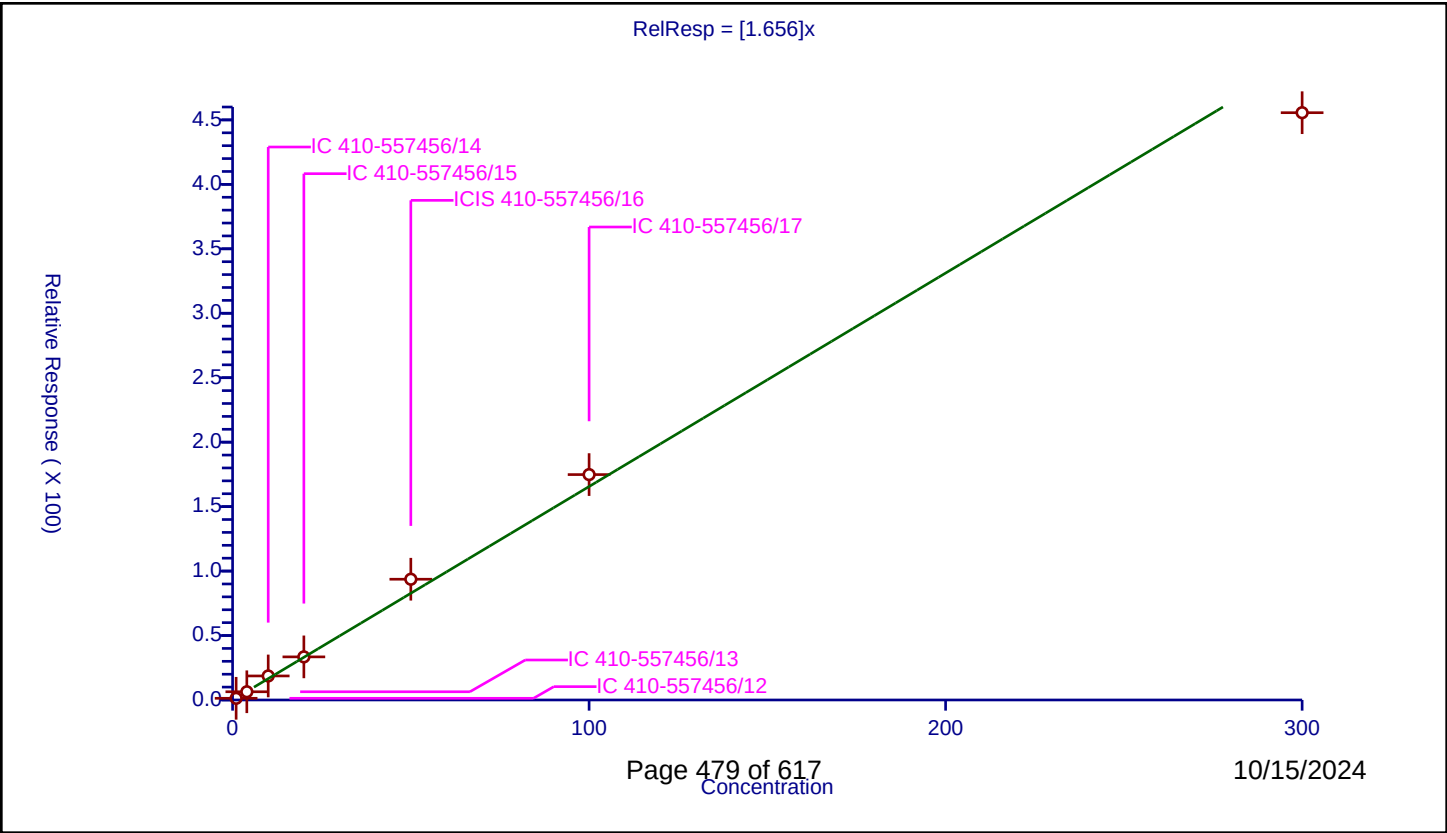
/ Isopropylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.656
Error Coefficients	

Relative Standard Deviation: 12.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	1.315867	50.0	764363.0	1.315867	Y
2	IC 410-557456/13	4.0	6.391295	50.0	742596.0	1.597824	Y
3	IC 410-557456/14	10.0	18.645071	50.0	802802.0	1.864507	Y
4	IC 410-557456/15	20.0	33.449338	50.0	795660.0	1.672467	Y
5	ICIS 410-557456/16	50.0	93.673472	50.0	784435.0	1.873469	Y
6	IC 410-557456/17	100.0	174.848767	50.0	818111.0	1.748488	Y
7	IC 410-557456/18	300.0	455.596093	50.0	892453.0	1.518654	Y



Calibration

/ Cyclohexanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

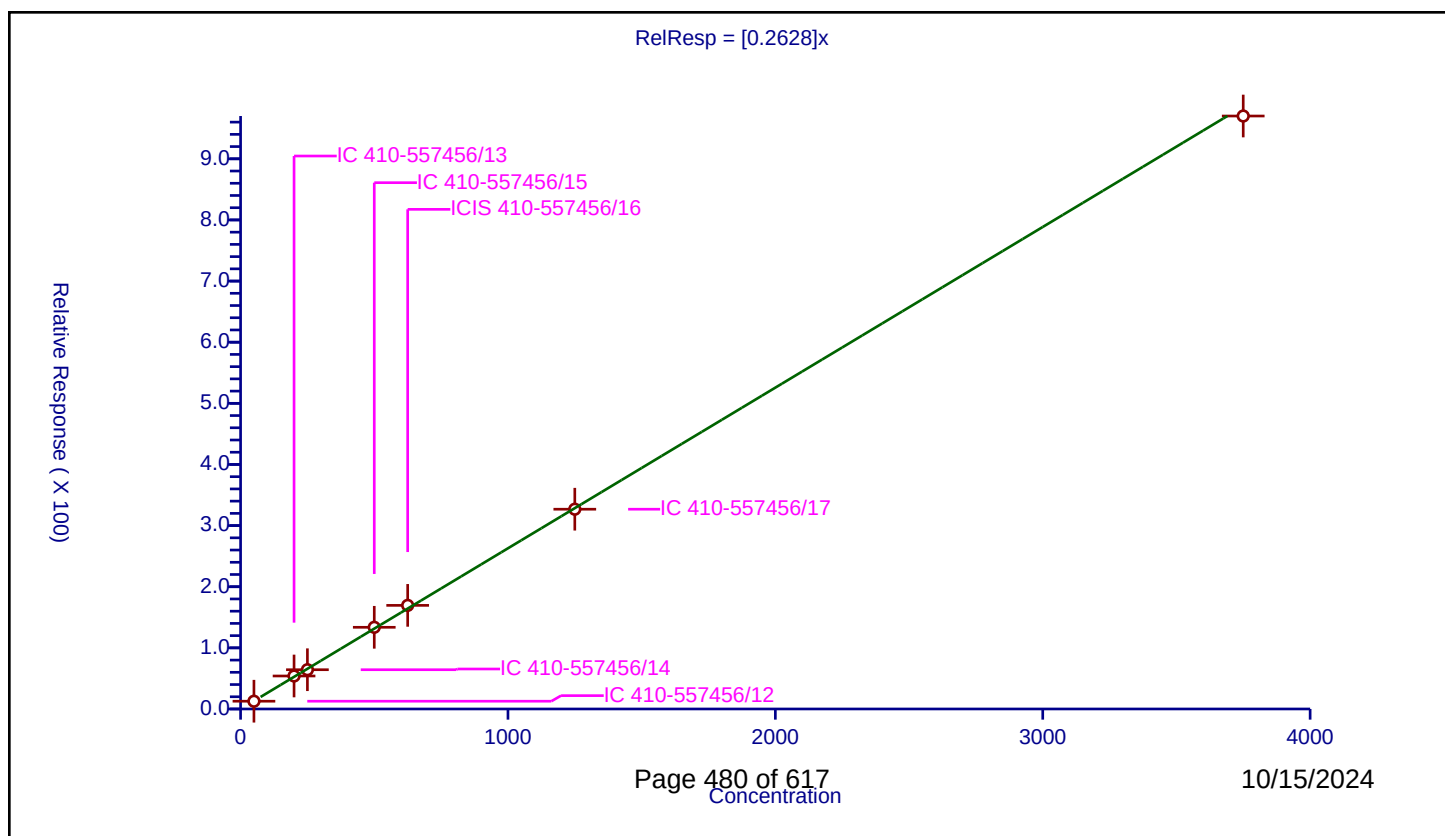
Curve Coefficients

Intercept: 0
Slope: 0.2628

Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	49.998172	12.711227	250.0	325657.0	0.254234	Y
2	IC 410-557456/13	199.992688	54.00131	250.0	311548.0	0.270016	Y
3	IC 410-557456/14	249.99086	64.237308	250.0	339390.0	0.256959	Y
4	IC 410-557456/15	499.98172	133.635899	250.0	326761.0	0.267282	Y
5	ICIS 410-557456/16	624.97715	169.479325	250.0	331685.0	0.271177	Y
6	IC 410-557456/17	1249.9543	326.79745	250.0	356519.0	0.261448	Y
7	IC 410-557456/18	3749.8629	969.982792	250.0	370754.0	0.258672	Y



Calibration

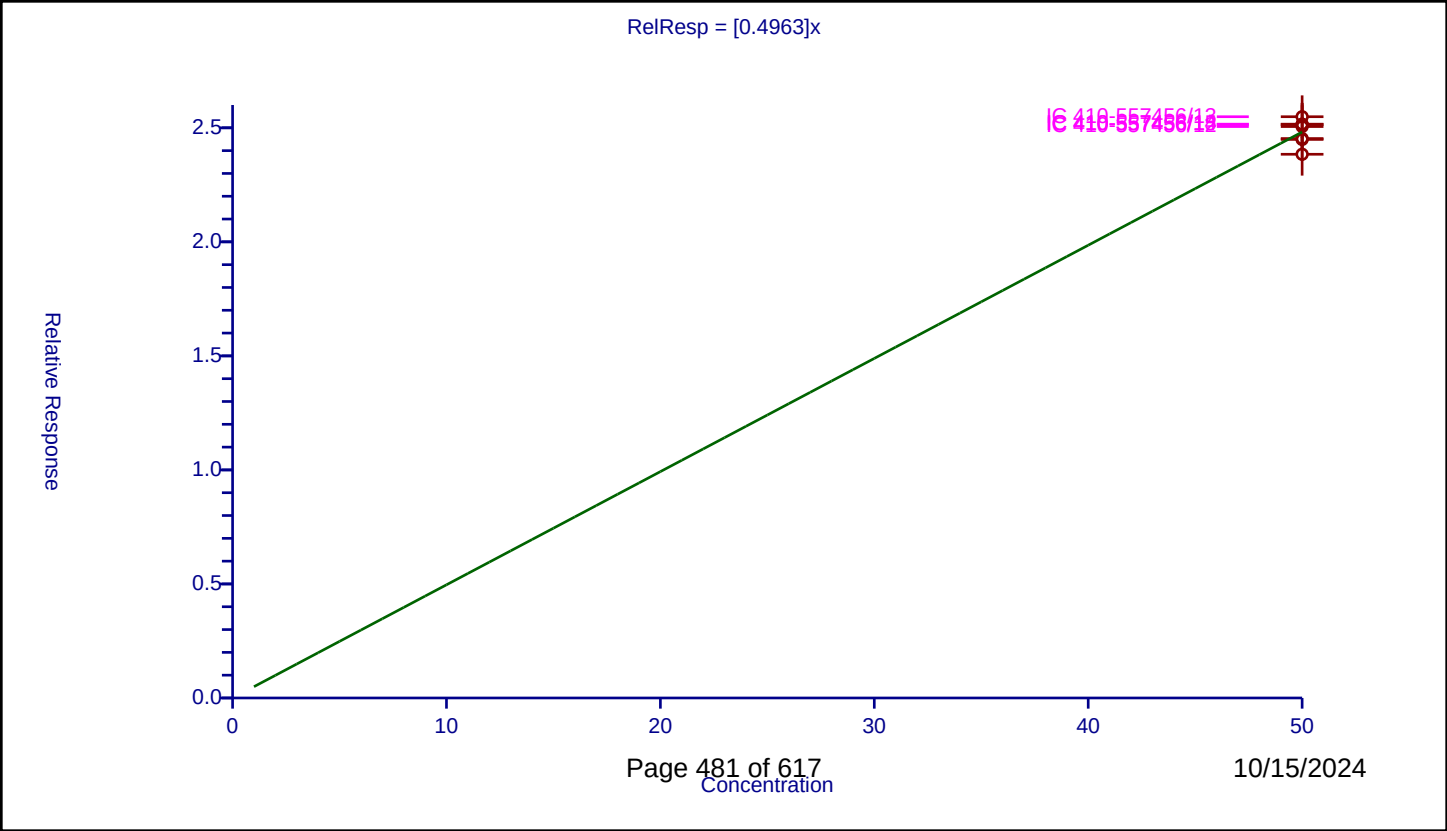
/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4963

Error Coefficients	
Relative Standard Deviation:	2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	50.0	25.05498	50.0	764363.0	0.5011	Y
2	IC 410-557456/13	50.0	25.486738	50.0	742596.0	0.509735	Y
3	IC 410-557456/14	50.0	25.160189	50.0	802802.0	0.503204	Y
4	IC 410-557456/15	50.0	25.143403	50.0	795660.0	0.502868	Y
5	ICIS 410-557456/16	50.0	24.490493	50.0	784435.0	0.48981	Y
6	IC 410-557456/17	50.0	24.53029	50.0	818111.0	0.490606	Y
7	IC 410-557456/18	50.0	23.840695	50.0	892453.0	0.476814	Y



Calibration

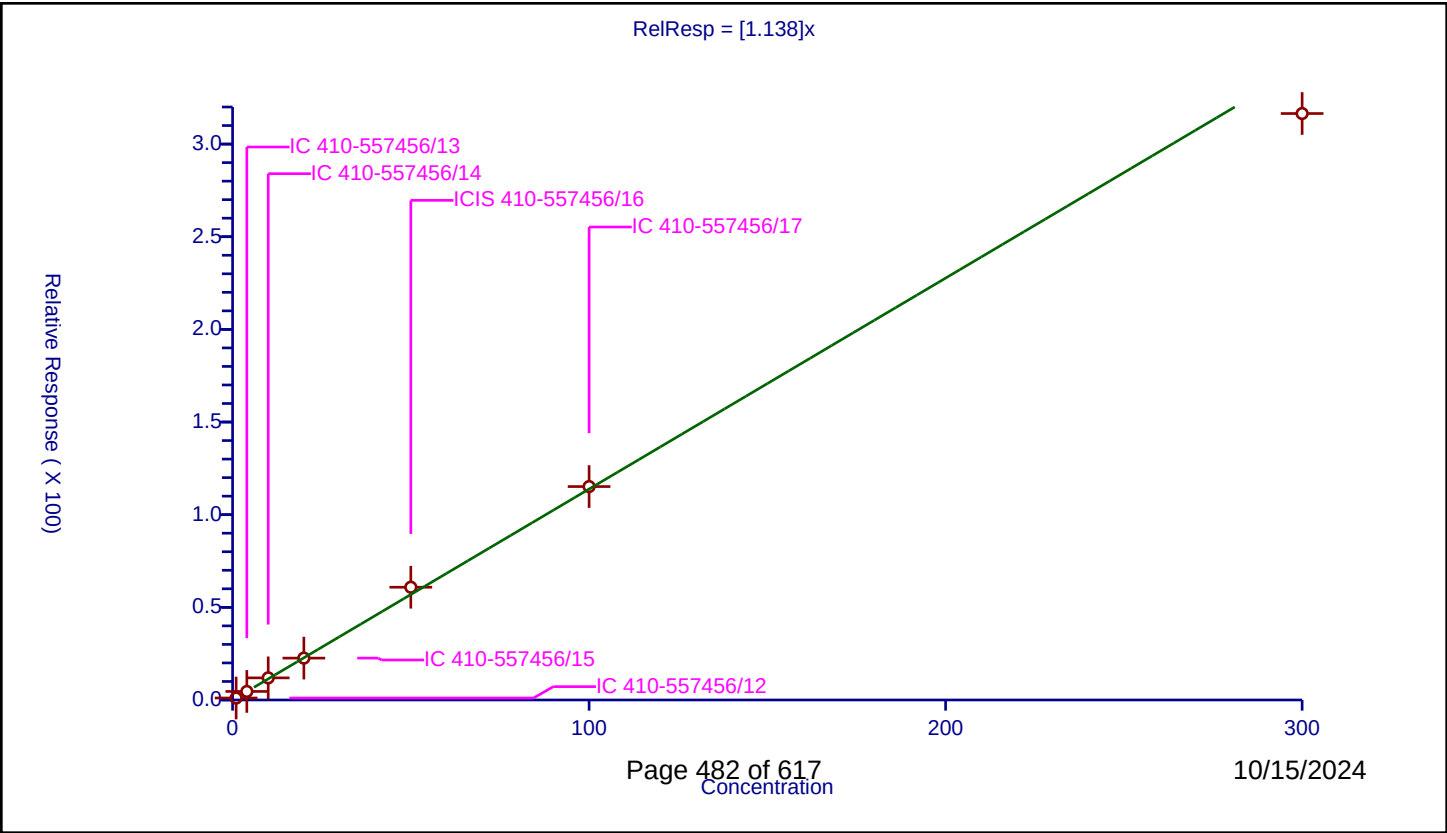
/ 1,1,2,2-Tetrachloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.138

Error Coefficients	
Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	1.067645	50.0	440268.0	1.067645	Y
2	IC 410-557456/13	4.0	4.612324	50.0	435377.0	1.153081	Y
3	IC 410-557456/14	10.0	11.941688	50.0	462443.0	1.194169	Y
4	IC 410-557456/15	20.0	22.598982	50.0	453443.0	1.129949	Y
5	ICIS 410-557456/16	50.0	60.848518	50.0	437516.0	1.21697	Y
6	IC 410-557456/17	100.0	115.180077	50.0	463275.0	1.151801	Y
7	IC 410-557456/18	300.0	316.487447	50.0	487950.0	1.054958	Y



Calibration

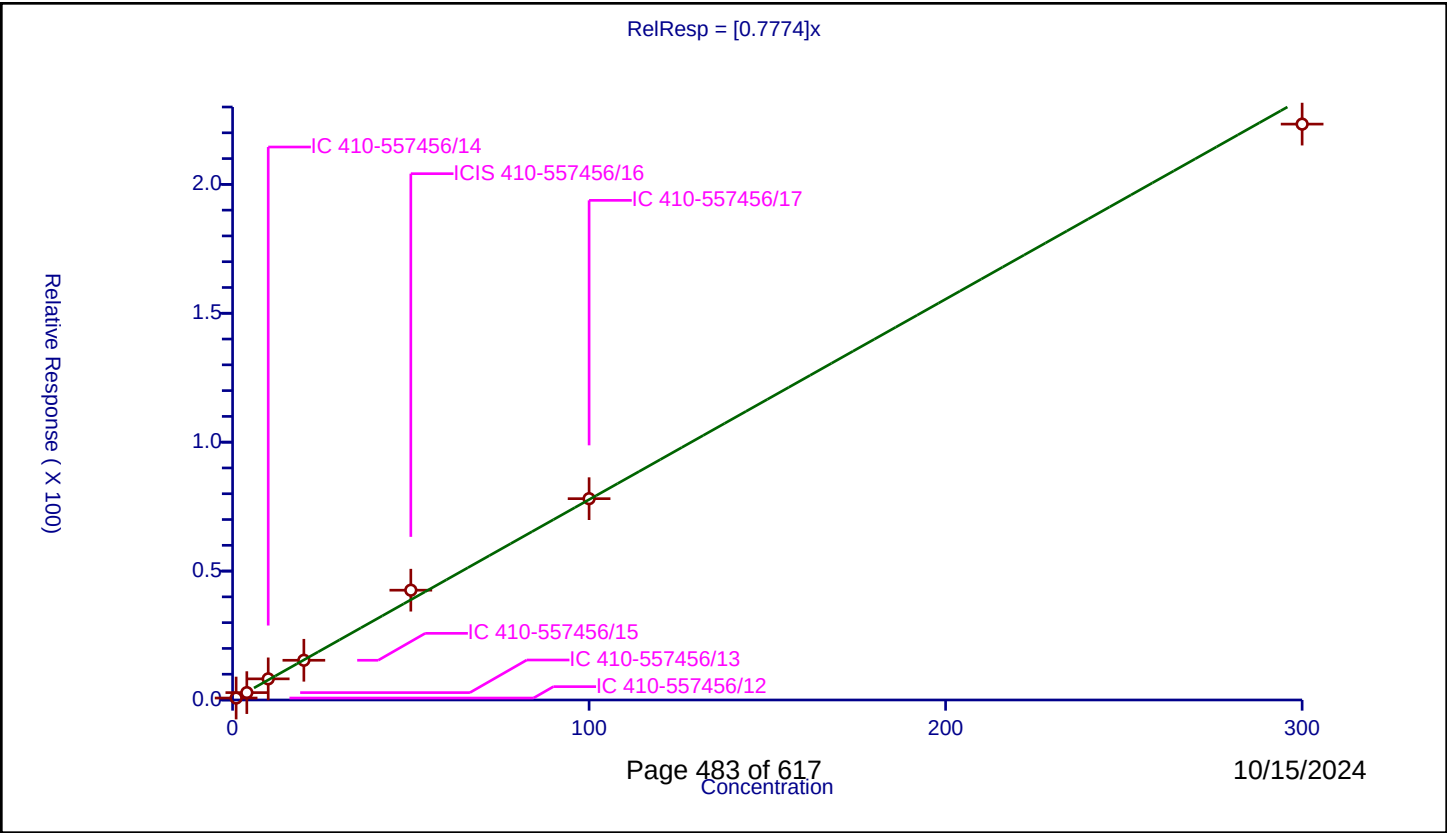
/ Bromobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7774
Error Coefficients	

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.759083	50.0	440268.0	0.759083	Y
2	IC 410-557456/13	4.0	2.861773	50.0	435377.0	0.715443	Y
3	IC 410-557456/14	10.0	8.195497	50.0	462443.0	0.81955	Y
4	IC 410-557456/15	20.0	15.406898	50.0	453443.0	0.770345	Y
5	ICIS 410-557456/16	50.0	42.5837	50.0	437516.0	0.851674	Y
6	IC 410-557456/17	100.0	78.085694	50.0	463275.0	0.780857	Y
7	IC 410-557456/18	300.0	223.365509	50.0	487950.0	0.744552	Y



Calibration

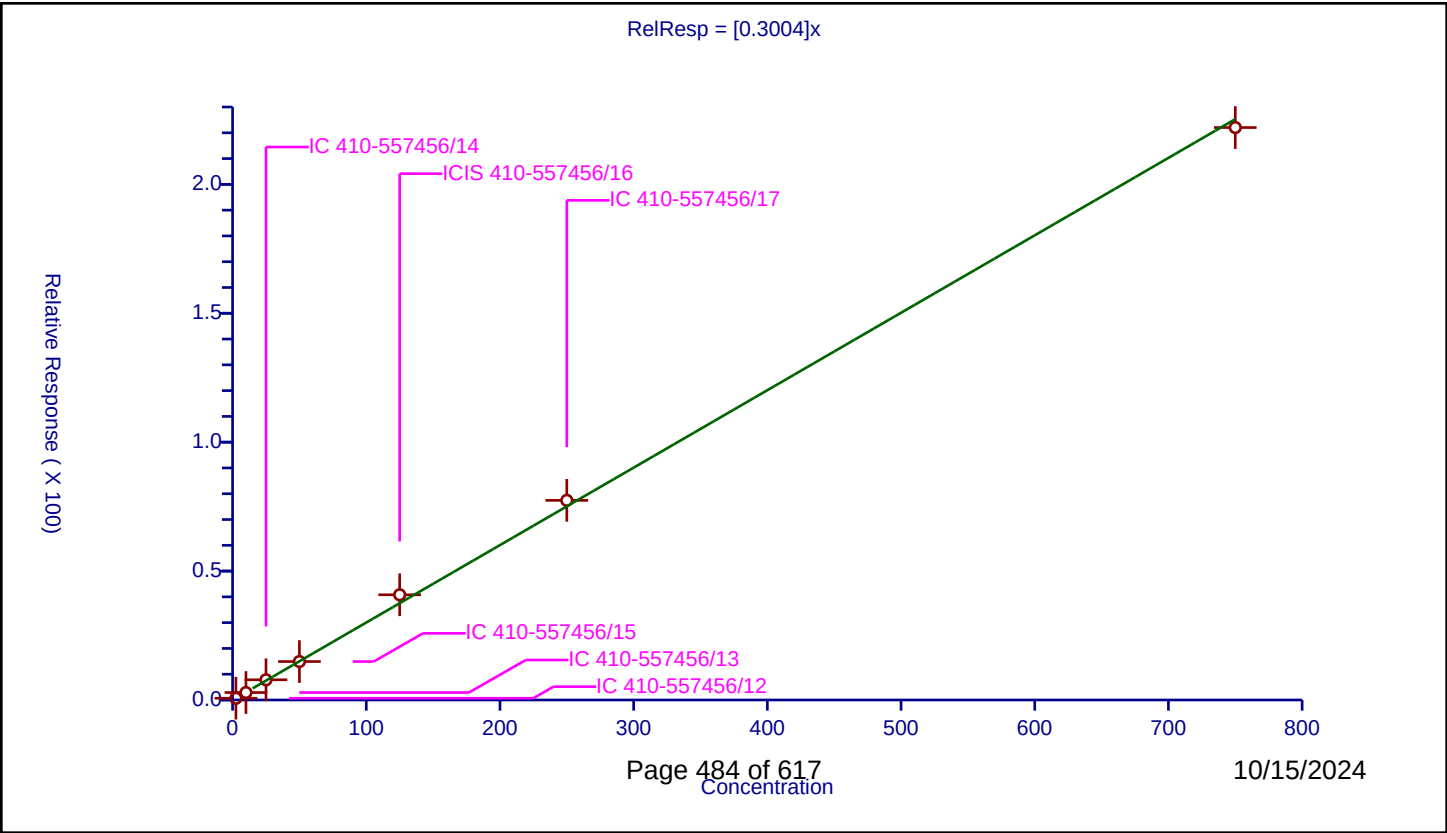
/ trans-1,4-Dichloro-2-butene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3004
Error Coefficients	

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	2.5	0.675384	50.0	440268.0	0.270154	Y
2	IC 410-557456/13	10.0	2.887842	50.0	435377.0	0.288784	Y
3	IC 410-557456/14	25.0	7.830911	50.0	462443.0	0.313236	Y
4	IC 410-557456/15	50.0	14.91312	50.0	453443.0	0.298262	Y
5	ICIS 410-557456/16	125.0	40.809136	50.0	437516.0	0.326473	Y
6	IC 410-557456/17	250.0	77.425827	50.0	463275.0	0.309703	Y
7	IC 410-557456/18	750.0	222.032893	50.0	487950.0	0.296044	Y



Calibration

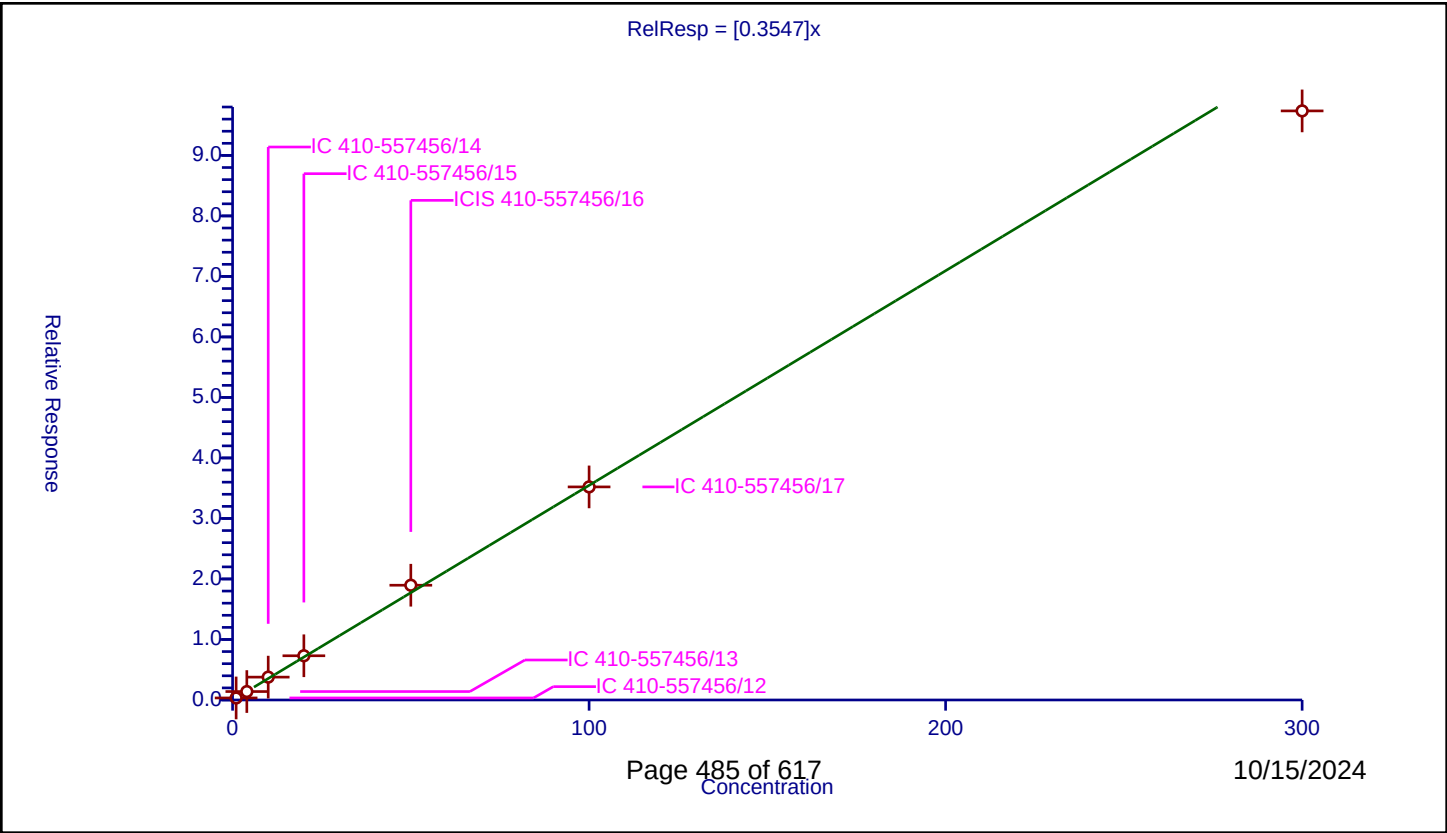
/ 1,2,3-Trichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3547
Error Coefficients	

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.33525	50.0	440268.0	0.33525	Y
2	IC 410-557456/13	4.0	1.394079	50.0	435377.0	0.34852	Y
3	IC 410-557456/14	10.0	3.777006	50.0	462443.0	0.377701	Y
4	IC 410-557456/15	20.0	7.308967	50.0	453443.0	0.365448	Y
5	ICIS 410-557456/16	50.0	18.966164	50.0	437516.0	0.379323	Y
6	IC 410-557456/17	100.0	35.215045	50.0	463275.0	0.35215	Y
7	IC 410-557456/18	300.0	97.357311	50.0	487950.0	0.324524	Y



Calibration

/ N-Propylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

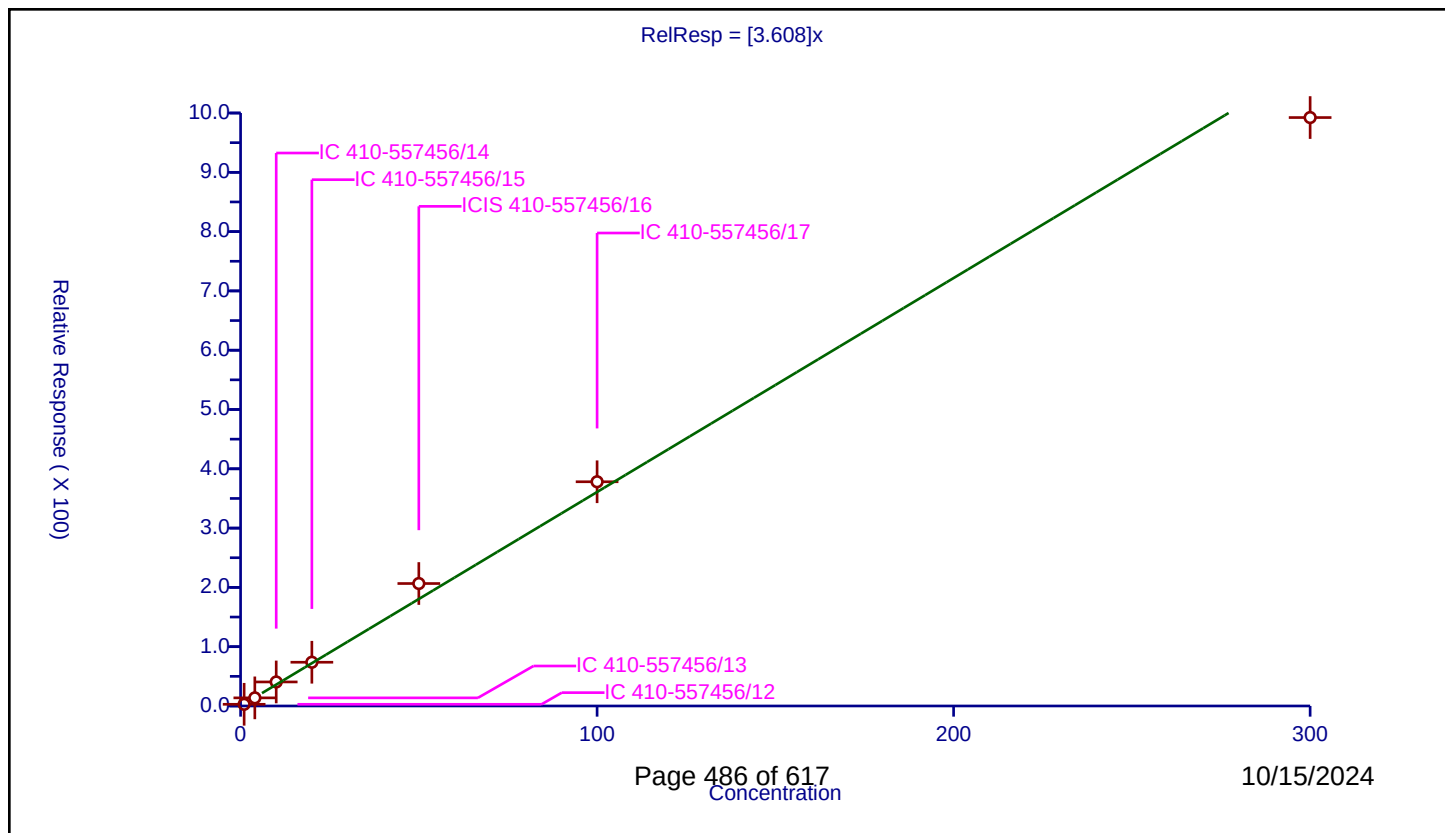
Curve Coefficients

Intercept: 0
Slope: 3.608

Error Coefficients

Relative Standard Deviation: 12.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	2.874272	50.0	440268.0	2.874272	Y
2	IC 410-557456/13	4.0	13.692156	50.0	435377.0	3.423039	Y
3	IC 410-557456/14	10.0	40.535698	50.0	462443.0	4.05357	Y
4	IC 410-557456/15	20.0	73.772007	50.0	453443.0	3.6886	Y
5	ICIS 410-557456/16	50.0	206.514847	50.0	437516.0	4.130297	Y
6	IC 410-557456/17	100.0	378.126815	50.0	463275.0	3.781268	Y
7	IC 410-557456/18	300.0	992.35188	50.0	487950.0	3.30784	Y



Calibration

/ 2-Chlorotoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

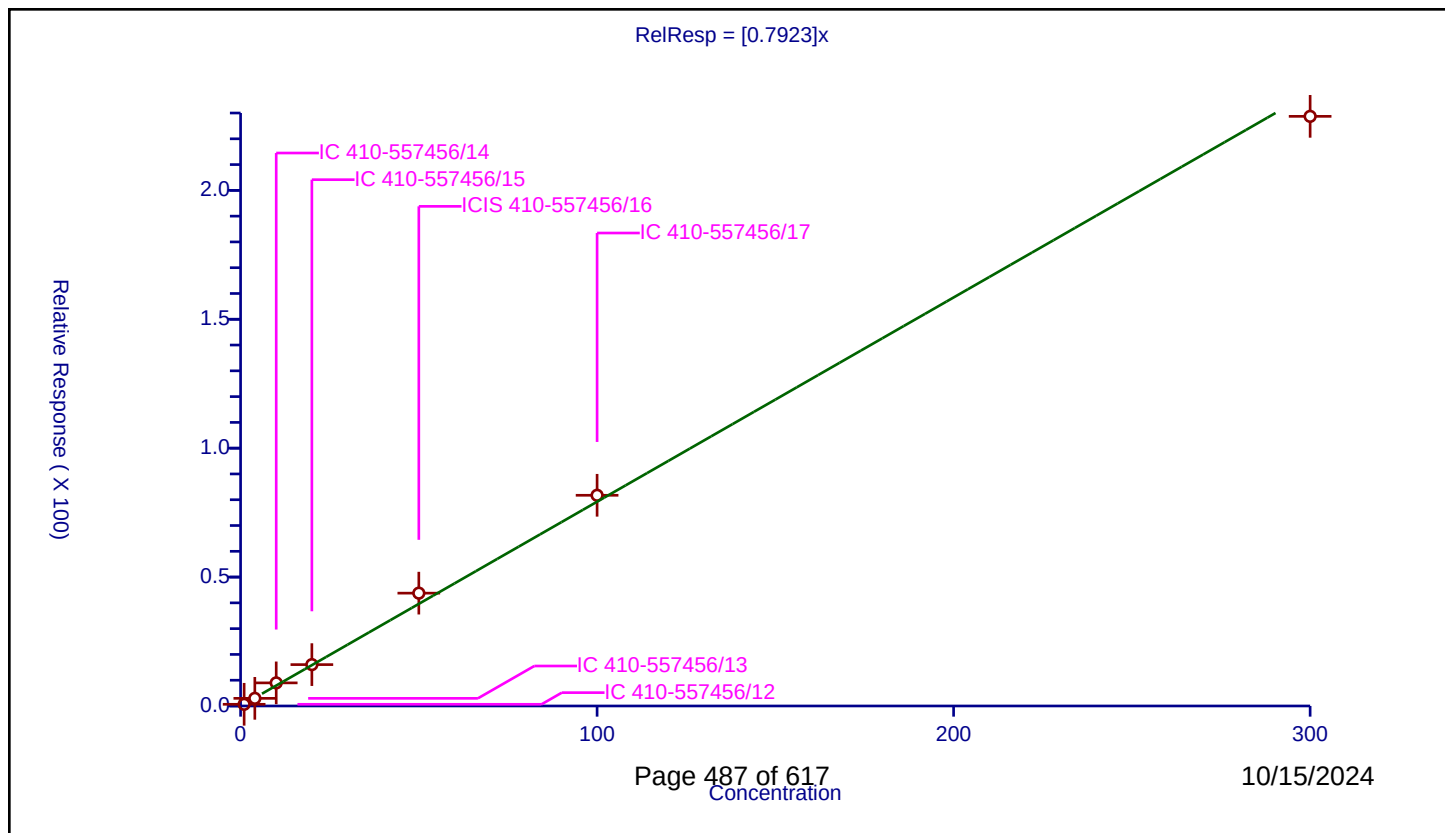
Curve Coefficients

Intercept: 0
 Slope: 0.7923

Error Coefficients

Relative Standard Deviation: 10.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.65233	50.0	440268.0	0.65233	Y
2	IC 410-557456/13	4.0	2.961571	50.0	435377.0	0.740393	Y
3	IC 410-557456/14	10.0	8.957645	50.0	462443.0	0.895764	Y
4	IC 410-557456/15	20.0	16.049316	50.0	453443.0	0.802466	Y
5	ICIS 410-557456/16	50.0	43.772799	50.0	437516.0	0.875456	Y
6	IC 410-557456/17	100.0	81.727807	50.0	463275.0	0.817278	Y
7	IC 410-557456/18	300.0	228.702019	50.0	487950.0	0.76234	Y



Calibration

/ 1,3,5-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

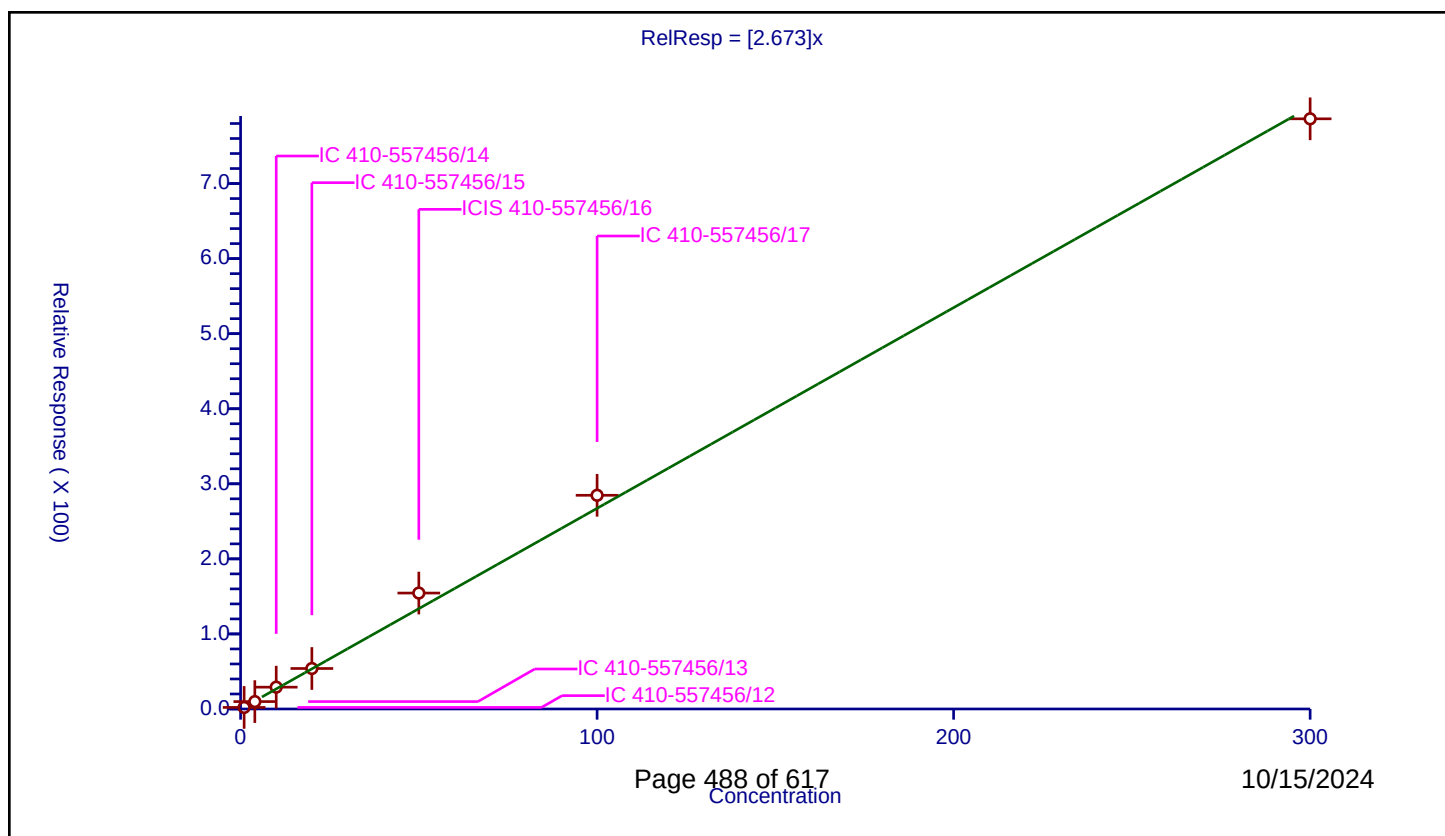
Curve Coefficients

Intercept: 0
Slope: 2.673

Error Coefficients

Relative Standard Deviation: 12.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	2.083504	50.0	440268.0	2.083504	Y
2	IC 410-557456/13	4.0	9.869952	50.0	435377.0	2.467488	Y
3	IC 410-557456/14	10.0	29.080881	50.0	462443.0	2.908088	Y
4	IC 410-557456/15	20.0	53.950882	50.0	453443.0	2.697544	Y
5	ICIS 410-557456/16	50.0	154.463037	50.0	437516.0	3.089261	Y
6	IC 410-557456/17	100.0	284.689439	50.0	463275.0	2.846894	Y
7	IC 410-557456/18	300.0	786.284353	50.0	487950.0	2.620948	Y



Calibration

/ 4-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

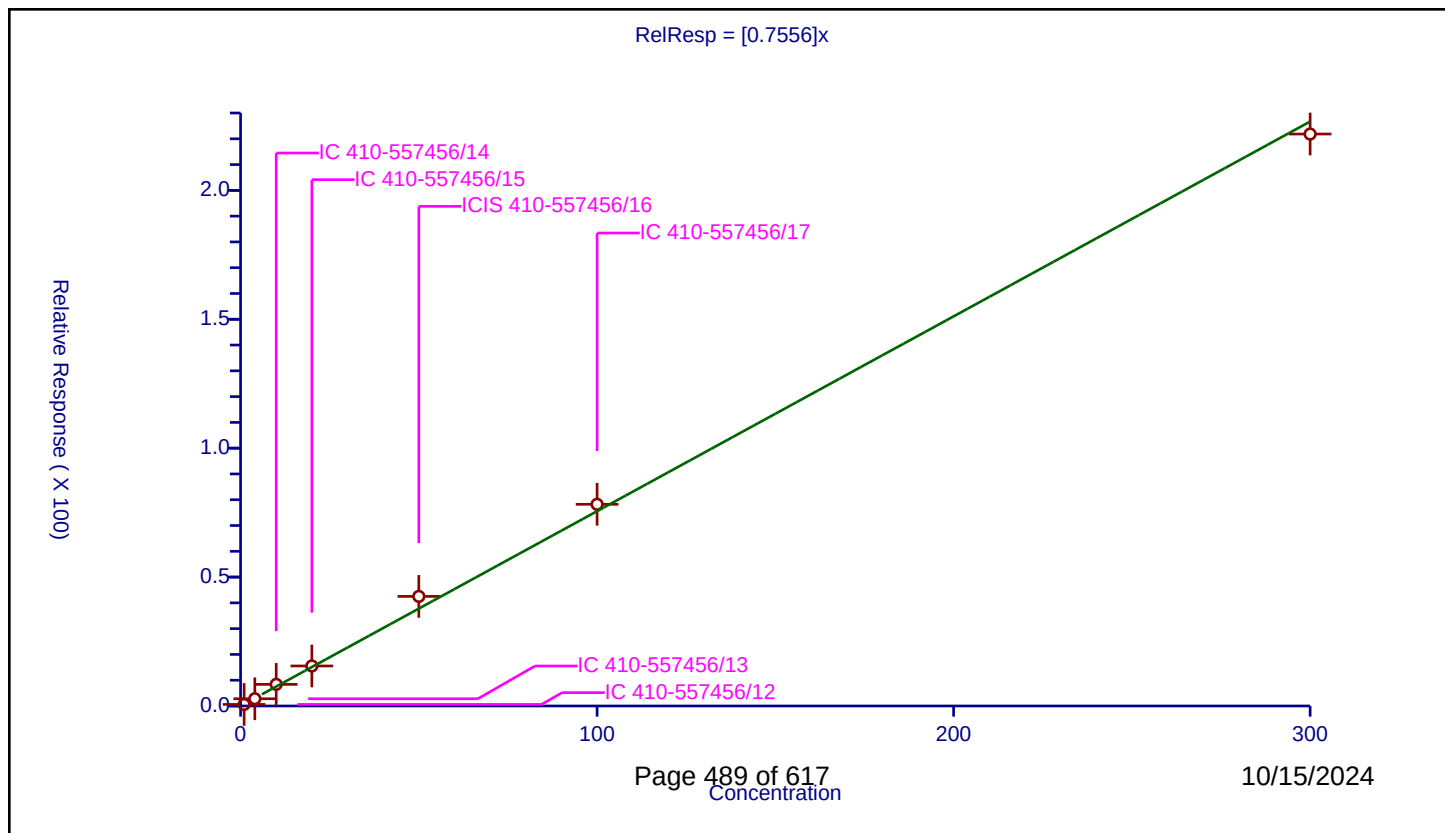
Curve Coefficients

Intercept: 0
Slope: 0.7556

Error Coefficients

Relative Standard Deviation: 11.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.599975	50.0	440268.0	0.599975	Y
2	IC 410-557456/13	4.0	2.811471	50.0	435377.0	0.702868	Y
3	IC 410-557456/14	10.0	8.384277	50.0	462443.0	0.838428	Y
4	IC 410-557456/15	20.0	15.520363	50.0	453443.0	0.776018	Y
5	ICIS 410-557456/16	50.0	42.503703	50.0	437516.0	0.850074	Y
6	IC 410-557456/17	100.0	78.236792	50.0	463275.0	0.782368	Y
7	IC 410-557456/18	300.0	221.846296	50.0	487950.0	0.739488	Y



Calibration

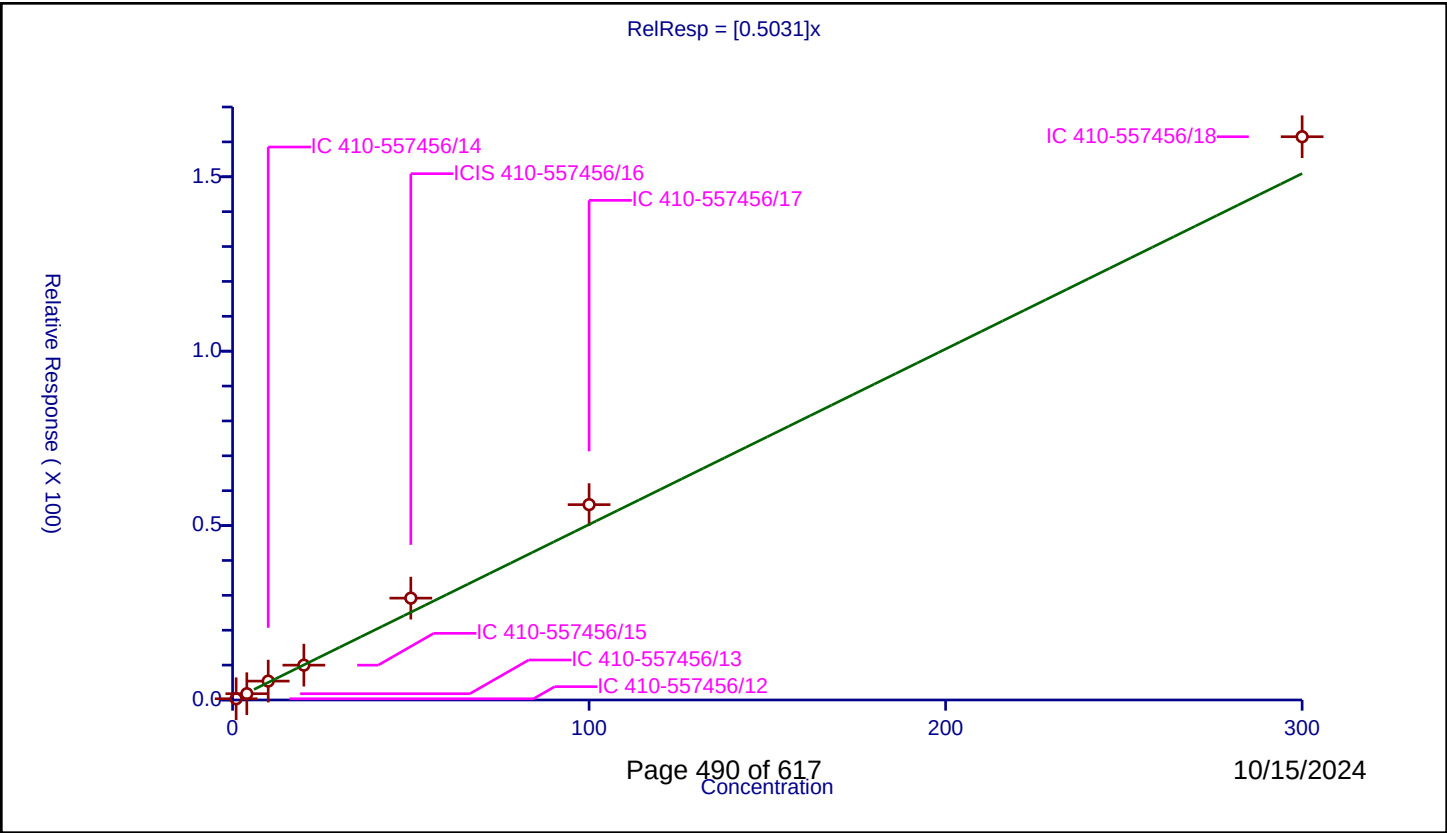
/ tert-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5031
Error Coefficients	

Relative Standard Deviation: 16.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.348538	50.0	440268.0	0.348538	Y
2	IC 410-557456/13	4.0	1.798441	50.0	435377.0	0.44961	Y
3	IC 410-557456/14	10.0	5.418614	50.0	462443.0	0.541861	Y
4	IC 410-557456/15	20.0	9.985268	50.0	453443.0	0.499263	Y
5	ICIS 410-557456/16	50.0	29.203275	50.0	437516.0	0.584065	Y
6	IC 410-557456/17	100.0	56.004533	50.0	463275.0	0.560045	Y
7	IC 410-557456/18	300.0	161.479967	50.0	487950.0	0.538267	Y



Calibration

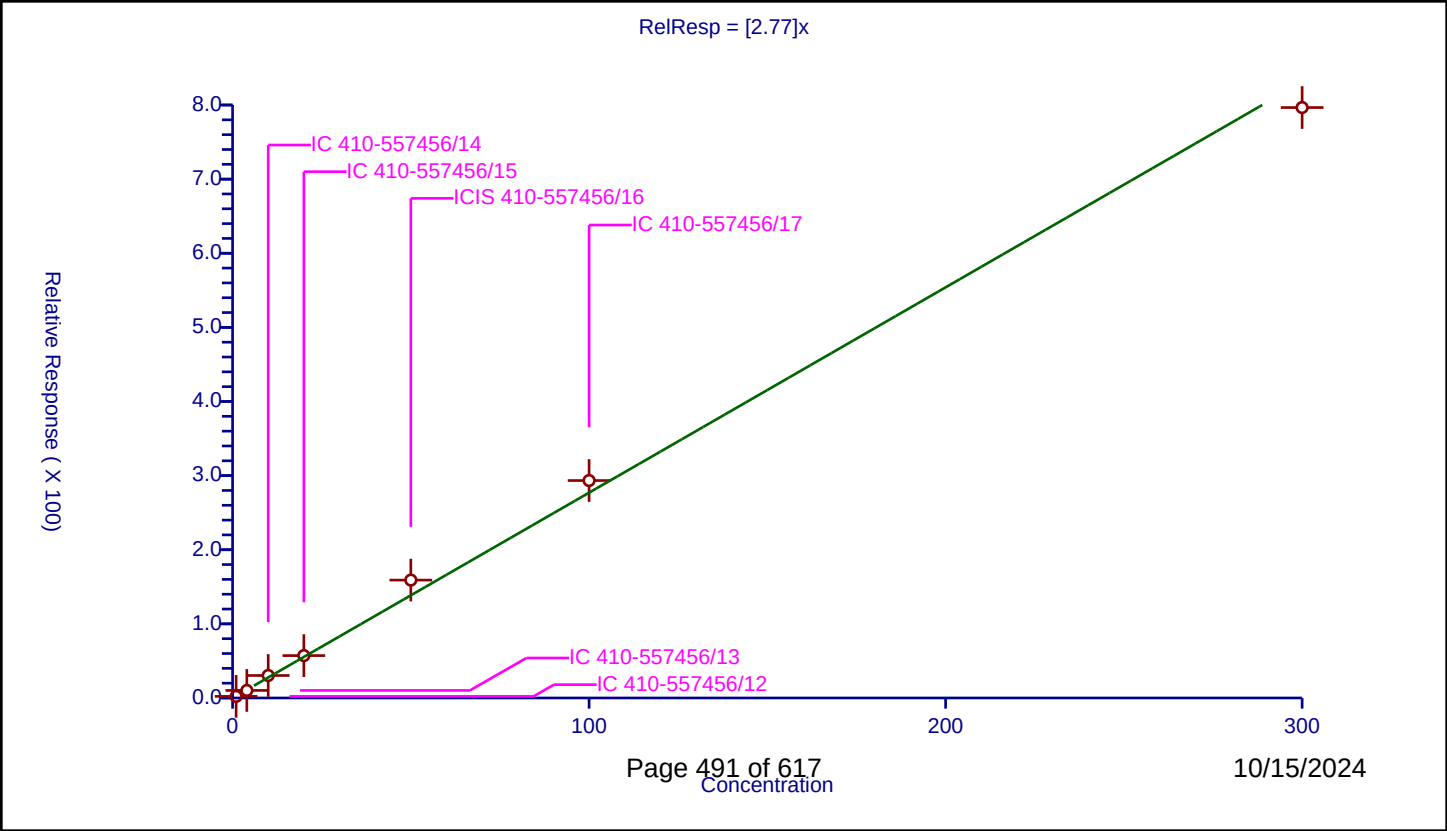
/ 1,2,4-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.77
Error Coefficients	

Relative Standard Deviation: 12.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	2.174812	50.0	440268.0	2.174812	Y
2	IC 410-557456/13	4.0	10.198632	50.0	435377.0	2.549658	Y
3	IC 410-557456/14	10.0	30.349903	50.0	462443.0	3.03499	Y
4	IC 410-557456/15	20.0	57.201787	50.0	453443.0	2.860089	Y
5	ICIS 410-557456/16	50.0	159.03487	50.0	437516.0	3.180697	Y
6	IC 410-557456/17	100.0	293.381685	50.0	463275.0	2.933817	Y
7	IC 410-557456/18	300.0	796.593401	50.0	487950.0	2.655311	Y



Calibration

/ sec-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

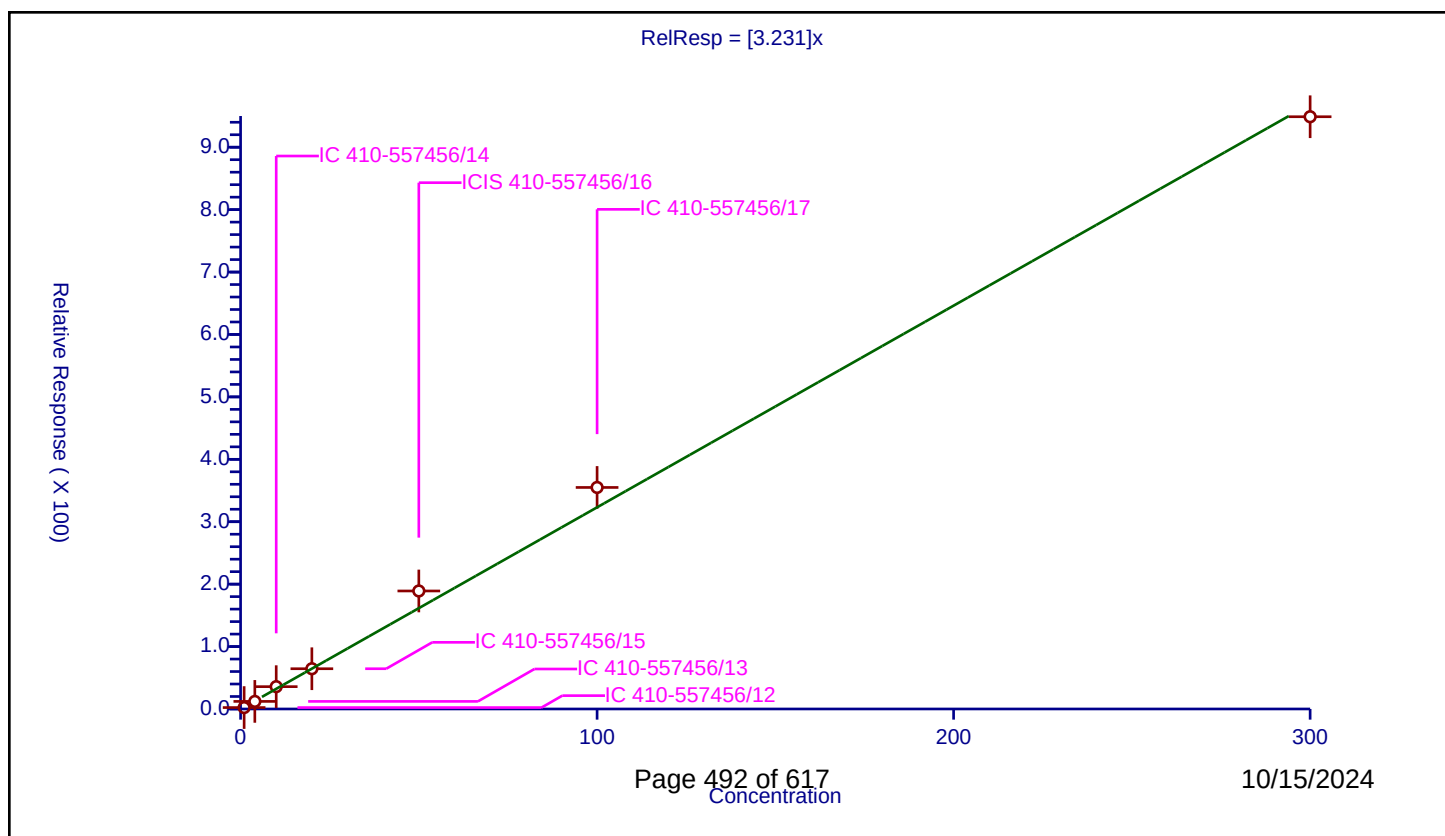
Curve Coefficients

Intercept: 0
Slope: 3.231

Error Coefficients

Relative Standard Deviation: 15.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	2.28554	50.0	440268.0	2.28554	Y
2	IC 410-557456/13	4.0	12.136378	50.0	435377.0	3.034095	Y
3	IC 410-557456/14	10.0	35.780085	50.0	462443.0	3.578009	Y
4	IC 410-557456/15	20.0	64.496089	50.0	453443.0	3.224804	Y
5	ICIS 410-557456/16	50.0	189.073885	50.0	437516.0	3.781478	Y
6	IC 410-557456/17	100.0	354.932168	50.0	463275.0	3.549322	Y
7	IC 410-557456/18	300.0	948.852956	50.0	487950.0	3.162843	Y



Calibration

/ 1,3-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

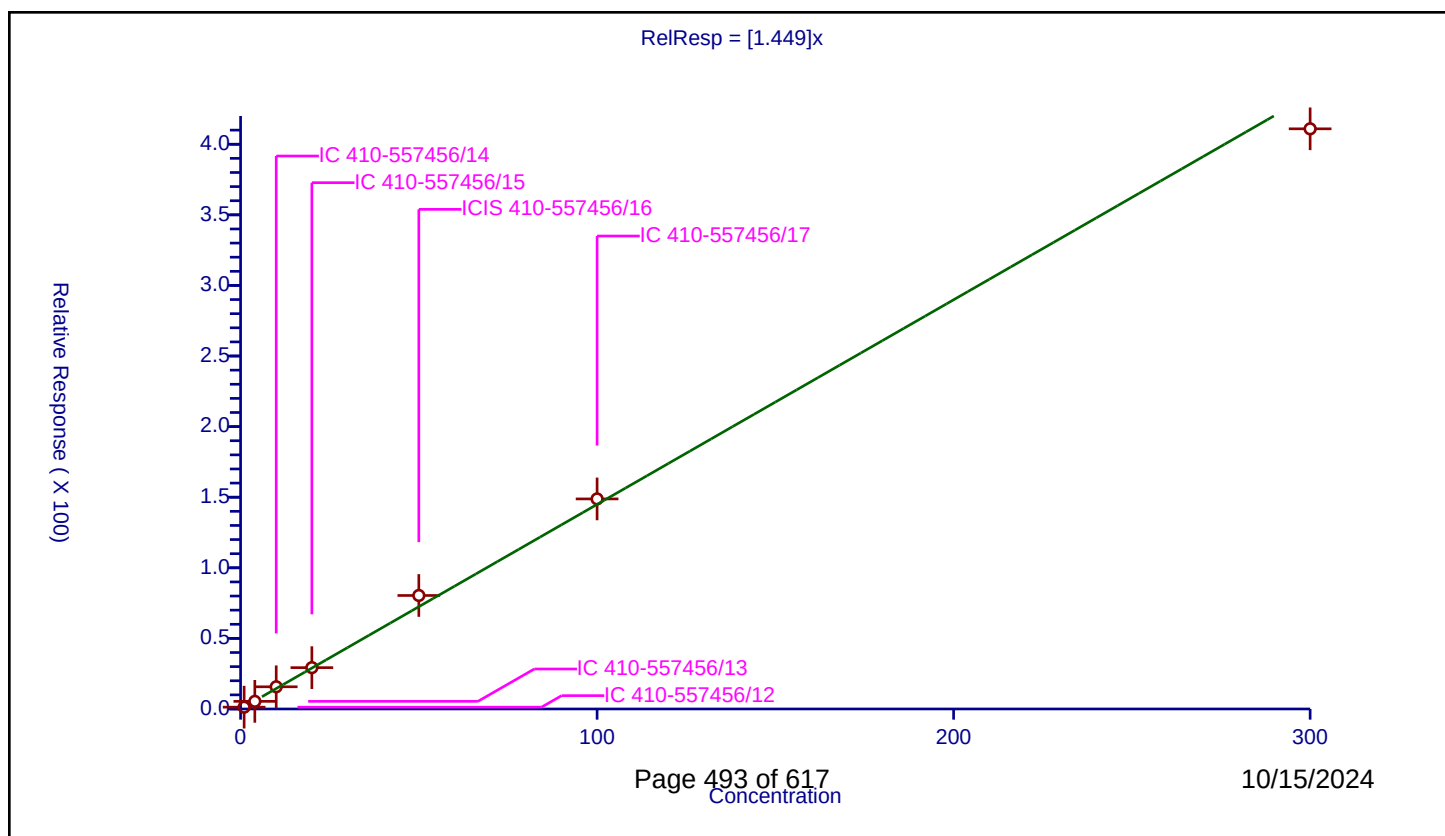
Curve Coefficients

Intercept: 0
Slope: 1.449

Error Coefficients

Relative Standard Deviation: 8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	1.291032	50.0	440268.0	1.291032	Y
2	IC 410-557456/13	4.0	5.405315	50.0	435377.0	1.351329	Y
3	IC 410-557456/14	10.0	15.724641	50.0	462443.0	1.572464	Y
4	IC 410-557456/15	20.0	29.283725	50.0	453443.0	1.464186	Y
5	ICIS 410-557456/16	50.0	80.393631	50.0	437516.0	1.607873	Y
6	IC 410-557456/17	100.0	148.782904	50.0	463275.0	1.487829	Y
7	IC 410-557456/18	300.0	410.928476	50.0	487950.0	1.369762	Y



Calibration

/ 4-Isopropyltoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

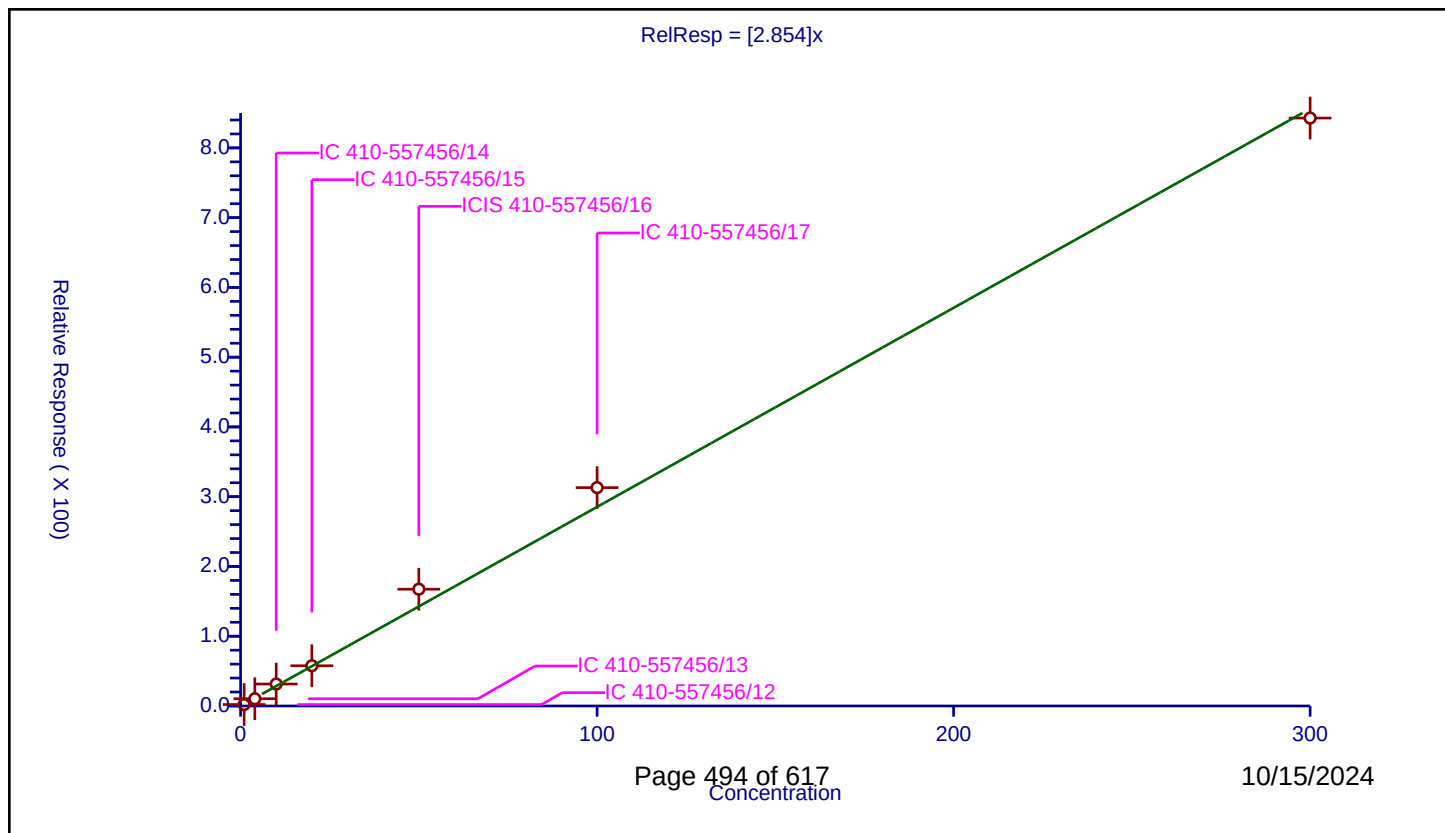
Curve Coefficients

Intercept: 0
Slope: 2.854

Error Coefficients

Relative Standard Deviation: 15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	2.064311	50.0	440268.0	2.064311	Y
2	IC 410-557456/13	4.0	10.37928	50.0	435377.0	2.59482	Y
3	IC 410-557456/14	10.0	31.472852	50.0	462443.0	3.147285	Y
4	IC 410-557456/15	20.0	57.645834	50.0	453443.0	2.882292	Y
5	ICIS 410-557456/16	50.0	167.404849	50.0	437516.0	3.348097	Y
6	IC 410-557456/17	100.0	313.01797	50.0	463275.0	3.13018	Y
7	IC 410-557456/18	300.0	842.772313	50.0	487950.0	2.809241	Y



Calibration

/ 1,4-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

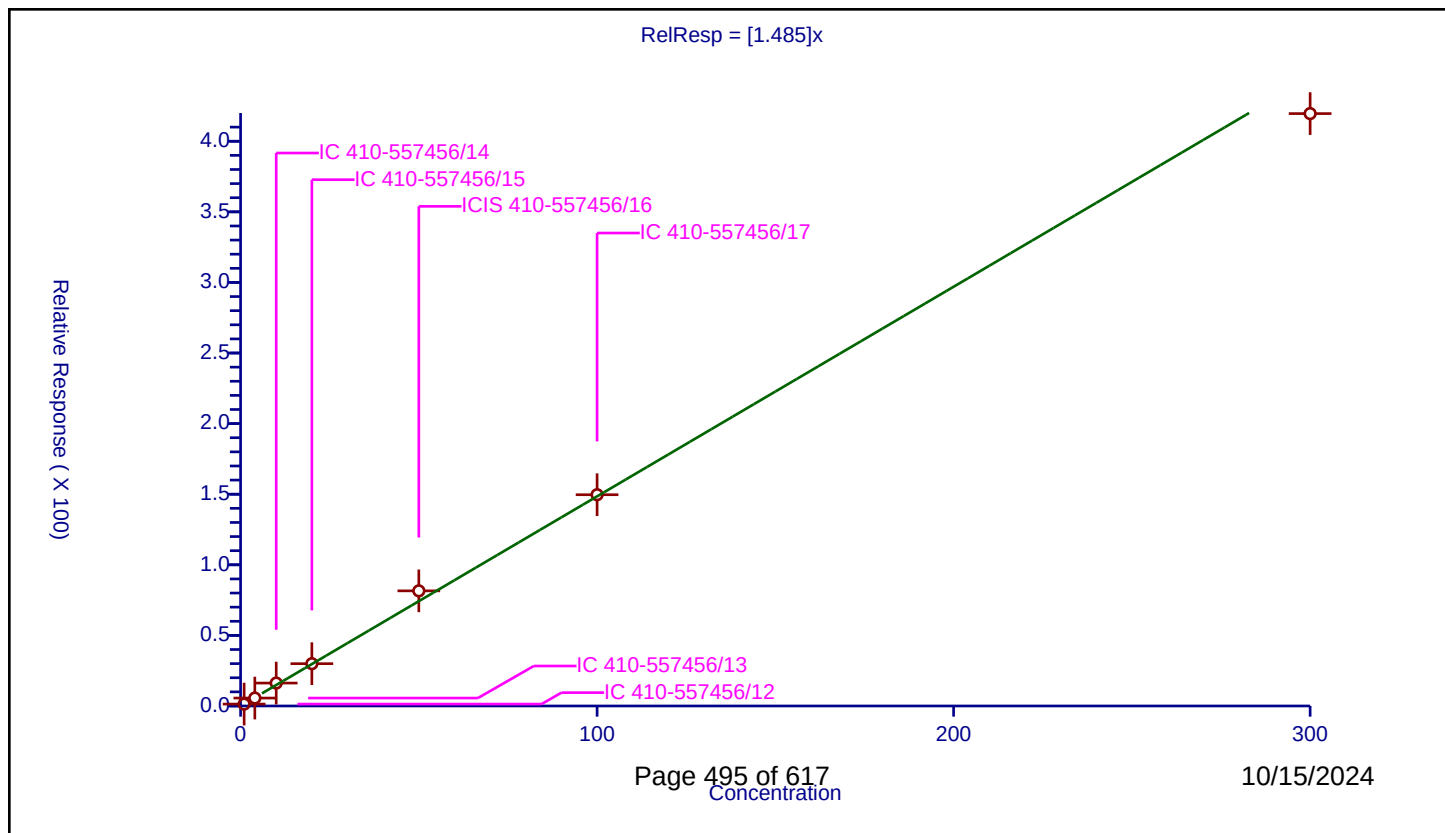
Curve Coefficients

Intercept: 0
Slope: 1.485

Error Coefficients

Relative Standard Deviation: 7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	1.341683	50.0	440268.0	1.341683	Y
2	IC 410-557456/13	4.0	5.615134	50.0	435377.0	1.403783	Y
3	IC 410-557456/14	10.0	16.236055	50.0	462443.0	1.623606	Y
4	IC 410-557456/15	20.0	29.959113	50.0	453443.0	1.497956	Y
5	ICIS 410-557456/16	50.0	81.556217	50.0	437516.0	1.631124	Y
6	IC 410-557456/17	100.0	149.630349	50.0	463275.0	1.496303	Y
7	IC 410-557456/18	300.0	419.58715	50.0	487950.0	1.398624	Y



Calibration

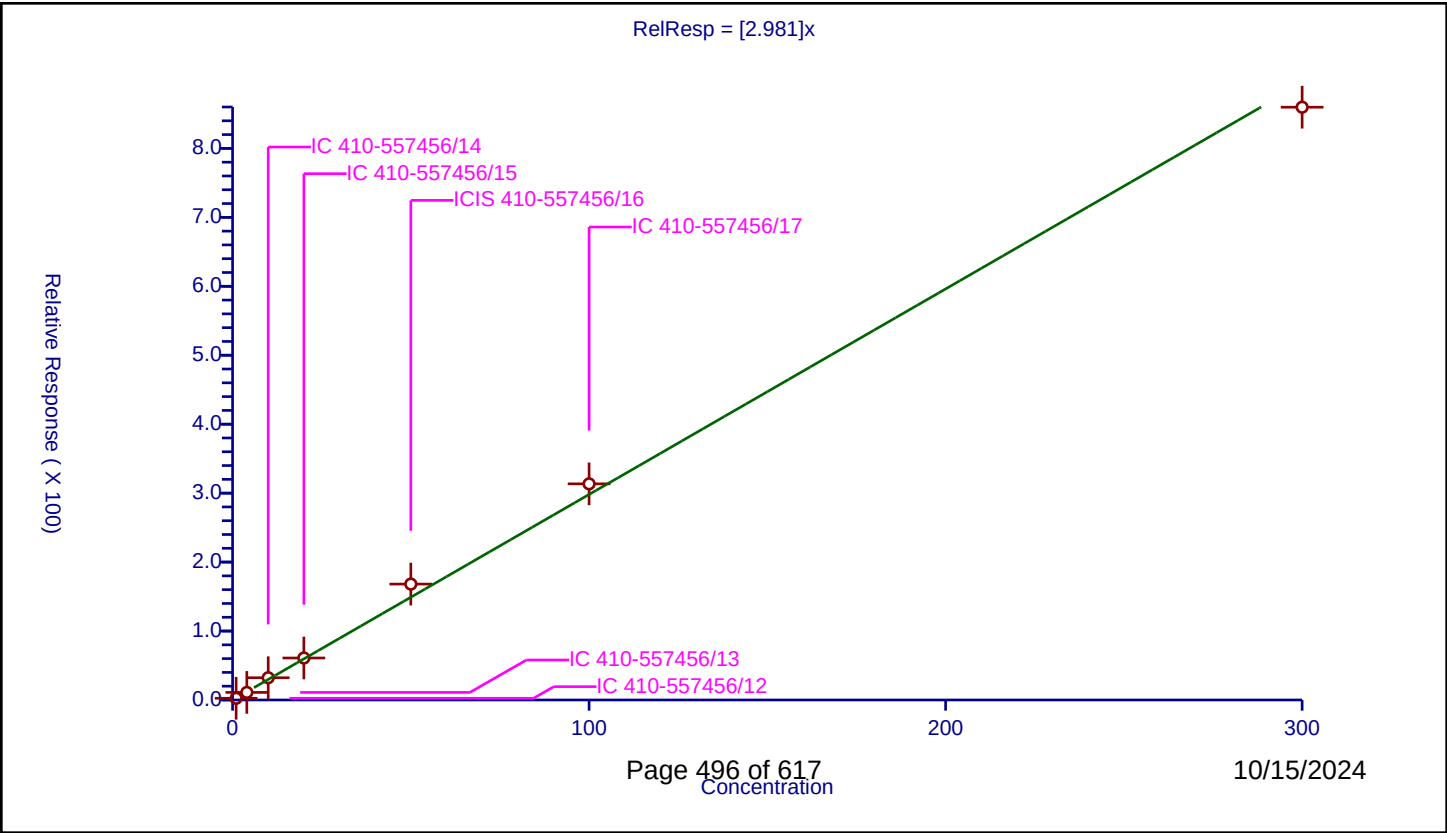
/ 1,2,3-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.981
Error Coefficients	

Relative Standard Deviation: 10.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	2.481216	50.0	440268.0	2.481216	Y
2	IC 410-557456/13	4.0	11.007242	50.0	435377.0	2.75181	Y
3	IC 410-557456/14	10.0	32.259651	50.0	462443.0	3.225965	Y
4	IC 410-557456/15	20.0	60.88902	50.0	453443.0	3.044451	Y
5	ICIS 410-557456/16	50.0	168.086653	50.0	437516.0	3.361733	Y
6	IC 410-557456/17	100.0	313.471156	50.0	463275.0	3.134712	Y
7	IC 410-557456/18	300.0	859.745466	50.0	487950.0	2.865818	Y



Calibration

/ Benzyl chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

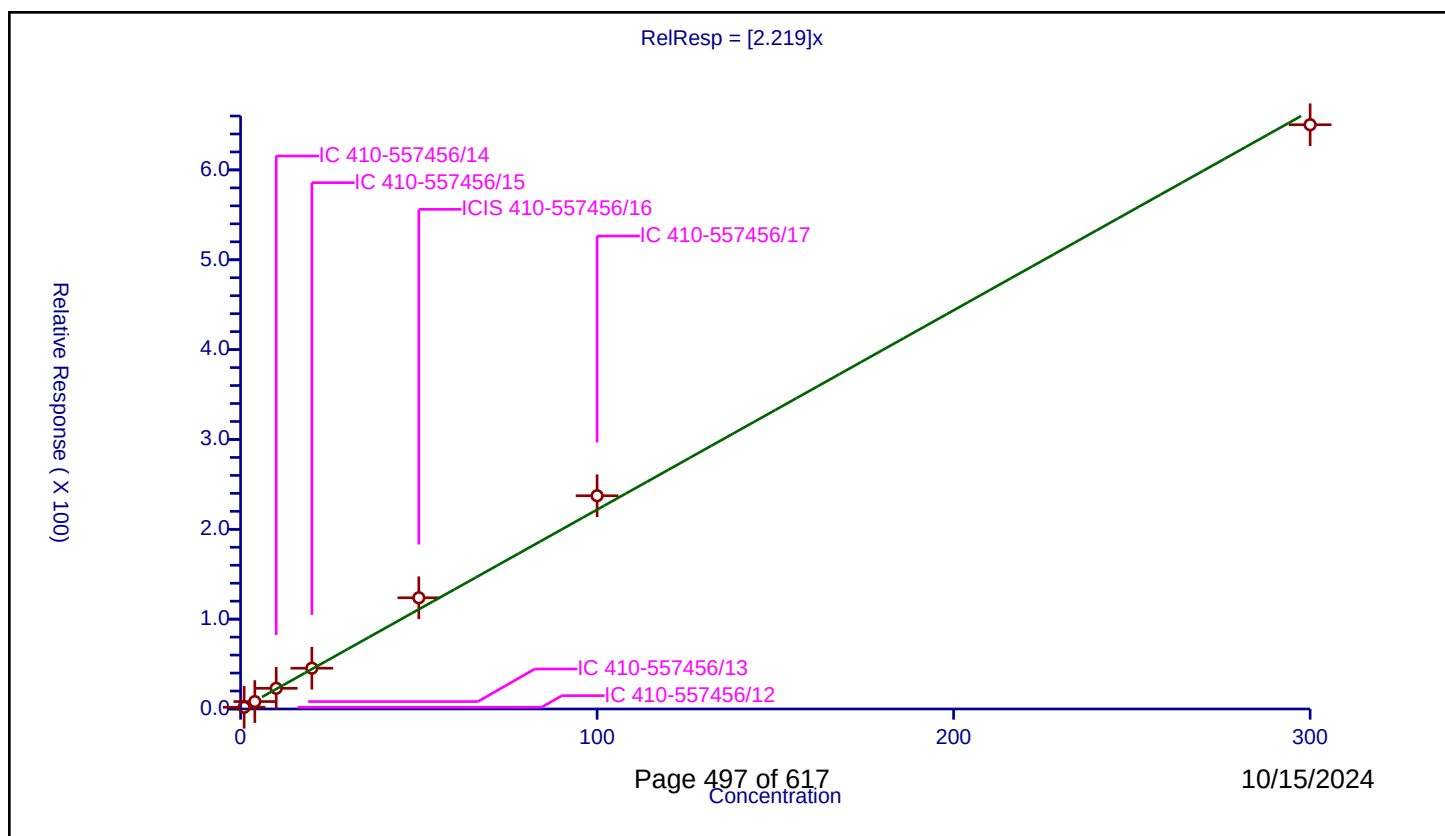
Curve Coefficients

Intercept: 0
Slope: 2.219

Error Coefficients

Relative Standard Deviation: 9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	1.875789	50.0	440268.0	1.875789	Y
2	IC 410-557456/13	4.0	8.26571	50.0	435377.0	2.066427	Y
3	IC 410-557456/14	10.0	23.024892	50.0	462443.0	2.302489	Y
4	IC 410-557456/15	20.0	45.390821	50.0	453443.0	2.269541	Y
5	ICIS 410-557456/16	50.0	123.775245	50.0	437516.0	2.475505	Y
6	IC 410-557456/17	100.0	237.346824	50.0	463275.0	2.373468	Y
7	IC 410-557456/18	300.0	650.293883	50.0	487950.0	2.167646	Y



Calibration

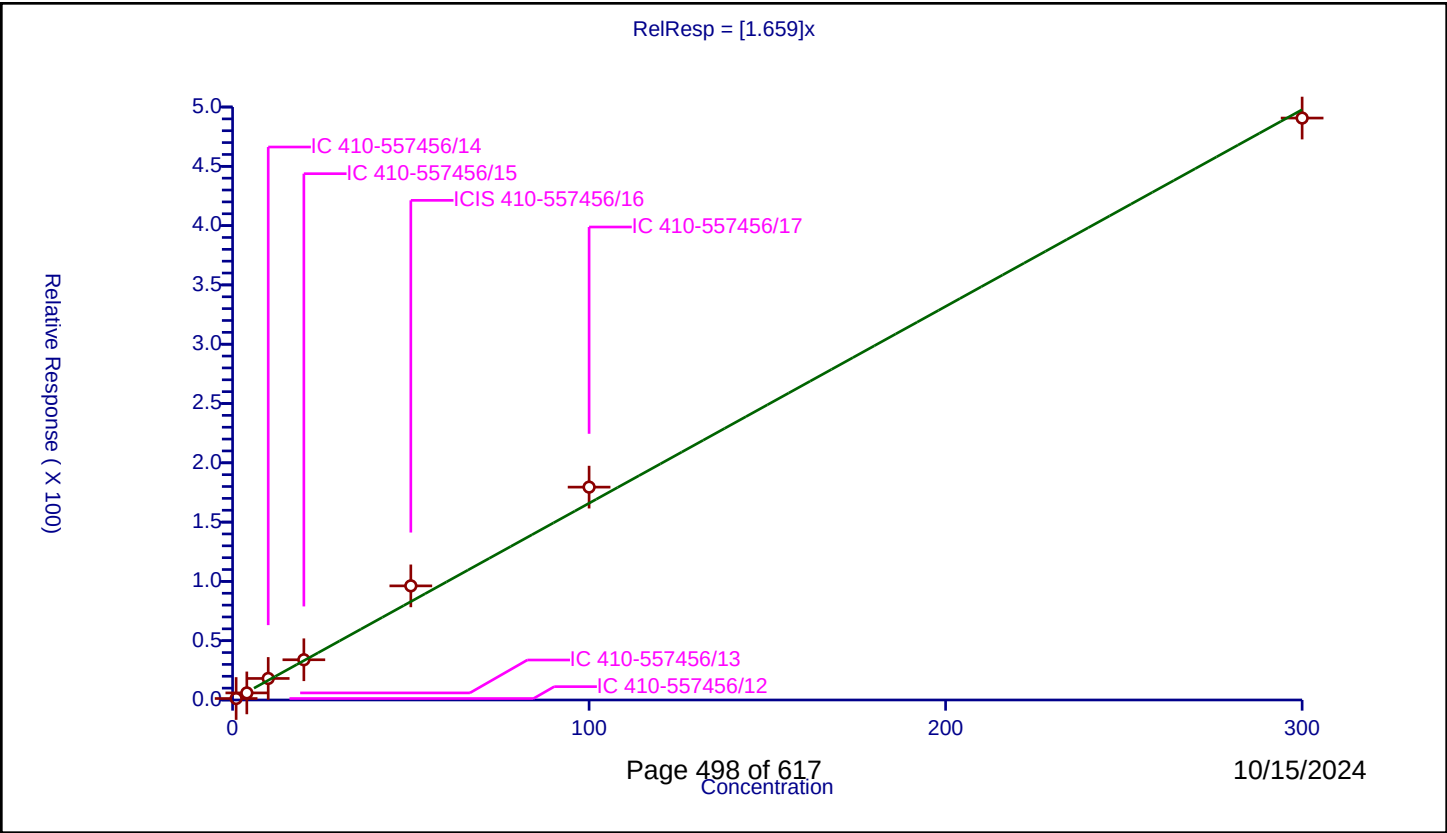
/ 1,3-Diethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.659
Error Coefficients	

Relative Standard Deviation: 13.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	1.258665	50.0	440268.0	1.258665	Y
2	IC 410-557456/13	4.0	5.959548	50.0	435377.0	1.489887	Y
3	IC 410-557456/14	10.0	18.150129	50.0	462443.0	1.815013	Y
4	IC 410-557456/15	20.0	33.916501	50.0	453443.0	1.695825	Y
5	ICIS 410-557456/16	50.0	96.232138	50.0	437516.0	1.924643	Y
6	IC 410-557456/17	100.0	179.495872	50.0	463275.0	1.794959	Y
7	IC 410-557456/18	300.0	490.680193	50.0	487950.0	1.635601	Y



Calibration

/ p-Diethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

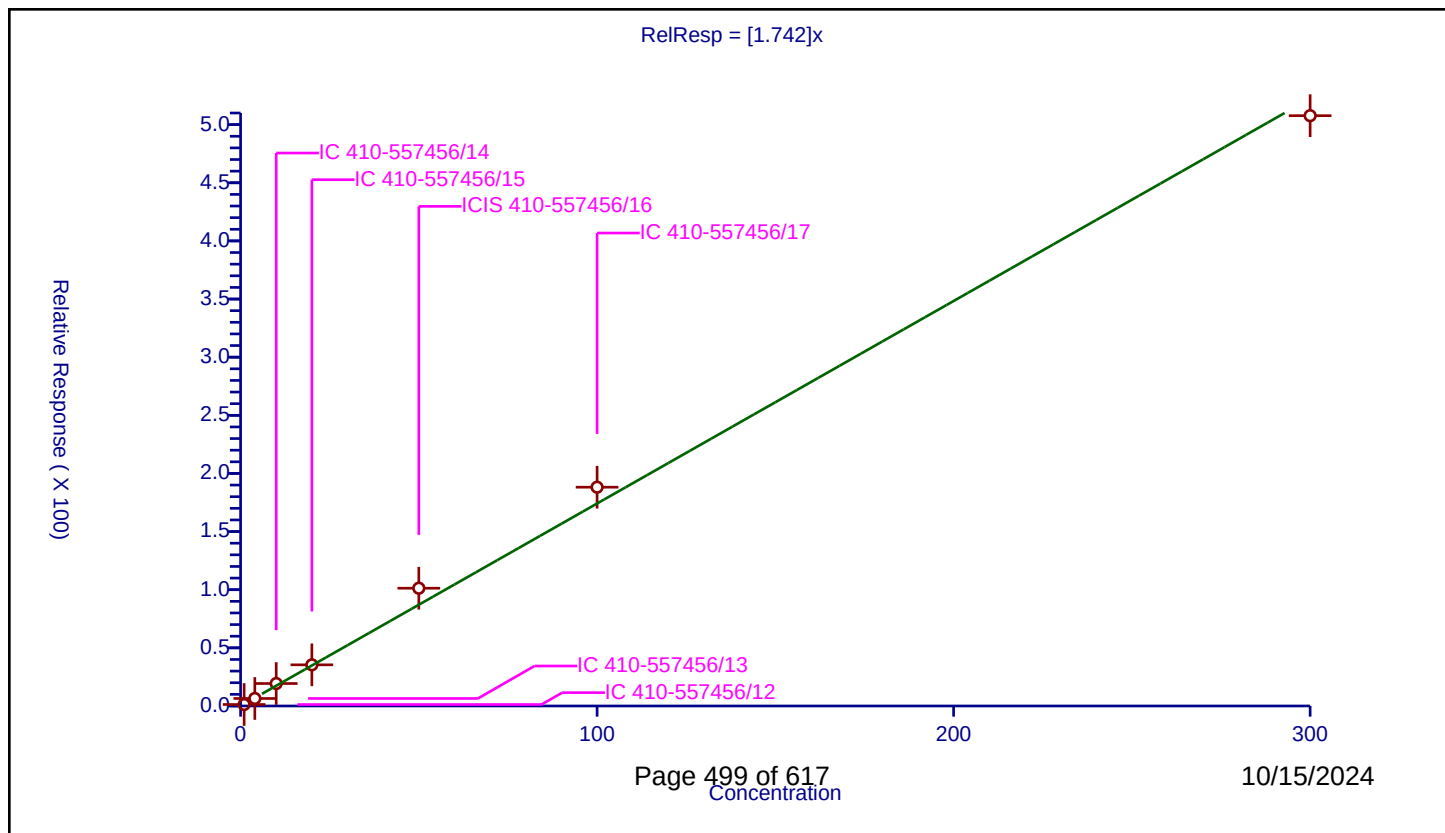
Curve Coefficients

Intercept: 0
Slope: 1.742

Error Coefficients

Relative Standard Deviation: 14.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	1.272975	50.0	440268.0	1.272975	Y
2	IC 410-557456/13	4.0	6.464512	50.0	435377.0	1.616128	Y
3	IC 410-557456/14	10.0	19.313732	50.0	462443.0	1.931373	Y
4	IC 410-557456/15	20.0	35.407317	50.0	453443.0	1.770366	Y
5	ICIS 410-557456/16	50.0	101.297095	50.0	437516.0	2.025942	Y
6	IC 410-557456/17	100.0	188.165345	50.0	463275.0	1.881653	Y
7	IC 410-557456/18	300.0	507.710011	50.0	487950.0	1.692367	Y



Calibration

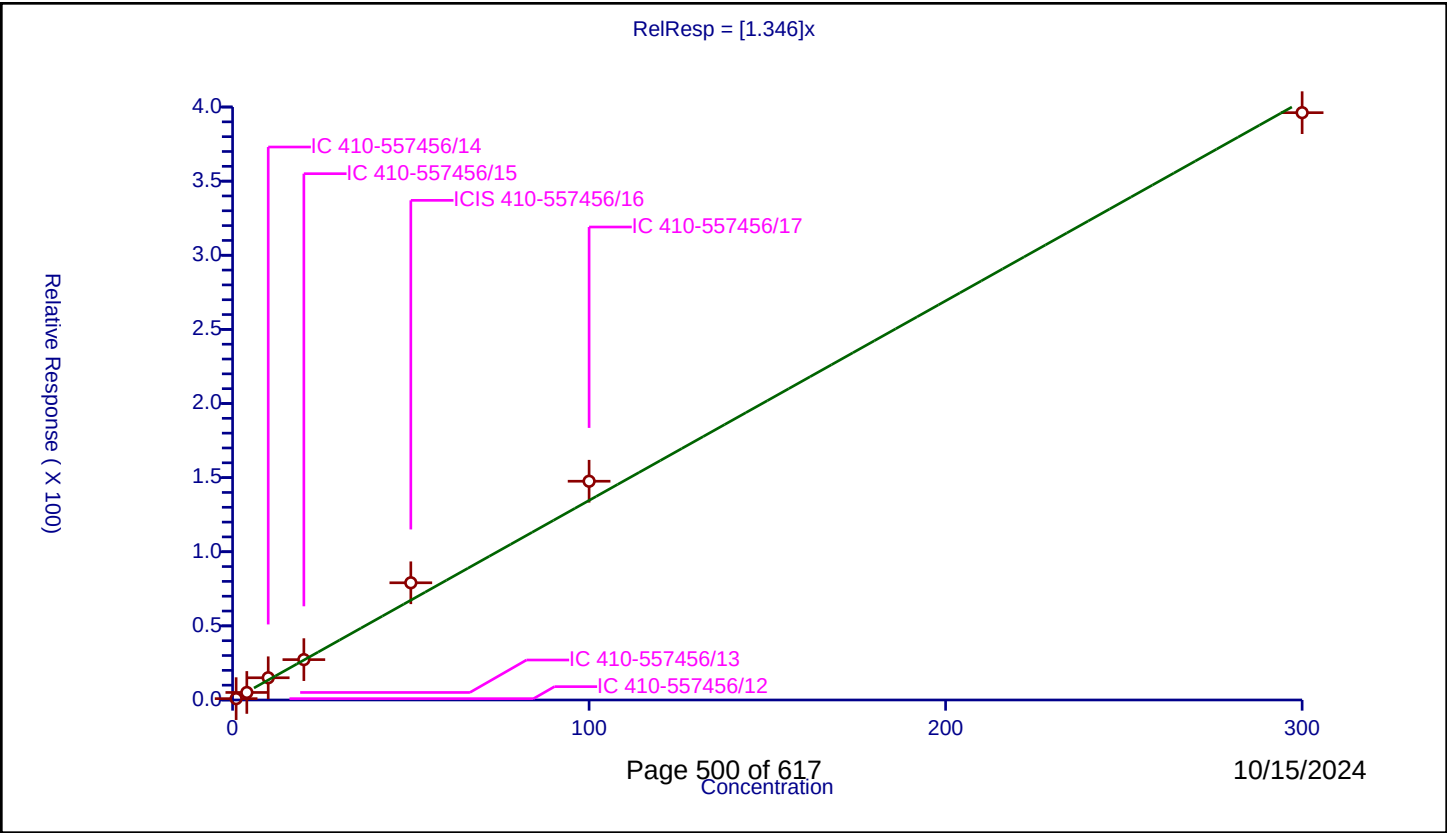
/ n-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.346
Error Coefficients	

Relative Standard Deviation: 16.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.914216	50.0	440268.0	0.914216	Y
2	IC 410-557456/13	4.0	5.081918	50.0	435377.0	1.270479	Y
3	IC 410-557456/14	10.0	15.000227	50.0	462443.0	1.500023	Y
4	IC 410-557456/15	20.0	27.223267	50.0	453443.0	1.361163	Y
5	ICIS 410-557456/16	50.0	79.06728	50.0	437516.0	1.581346	Y
6	IC 410-557456/17	100.0	147.568291	50.0	463275.0	1.475683	Y
7	IC 410-557456/18	300.0	396.190798	50.0	487950.0	1.320636	Y



Calibration

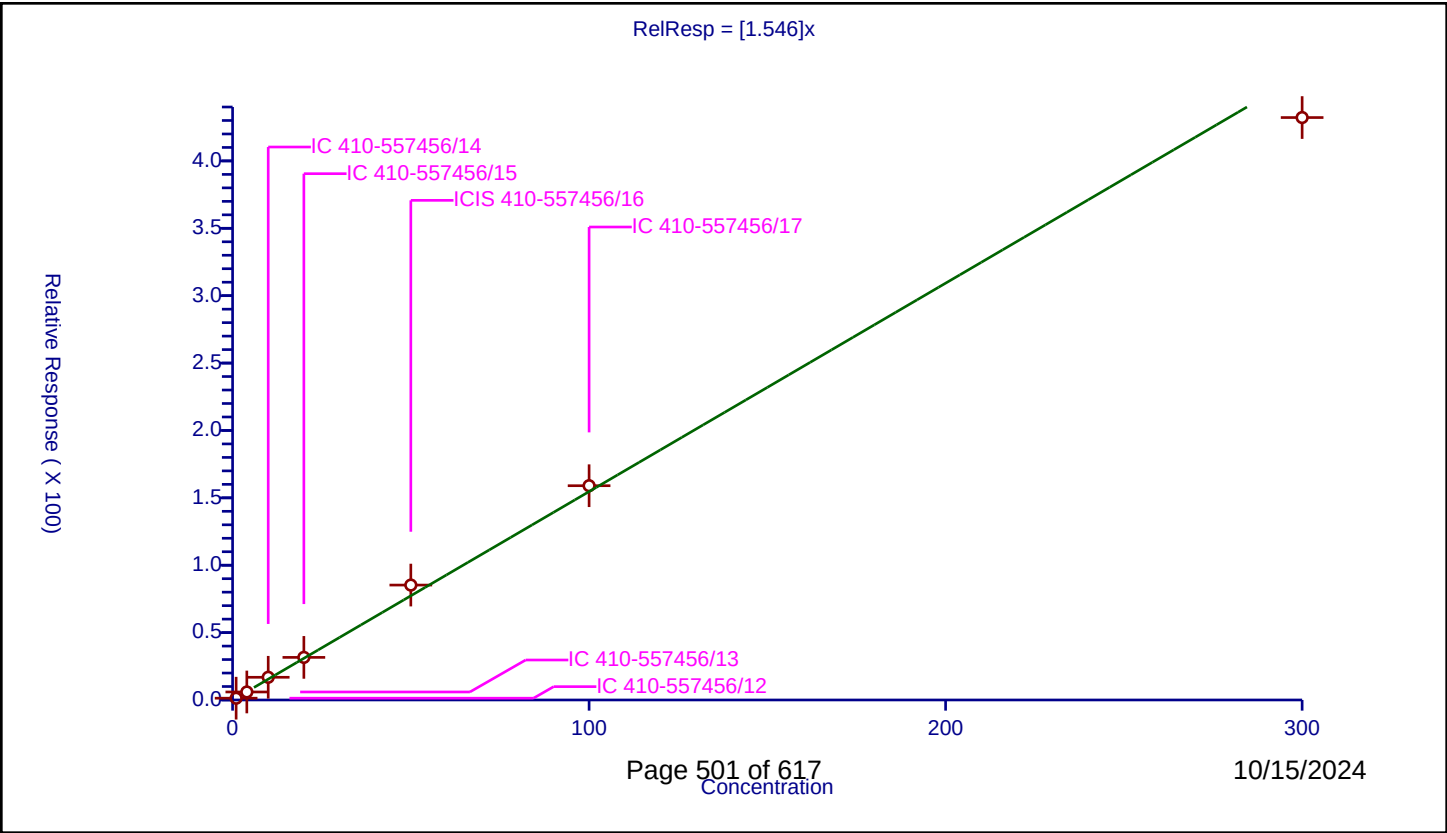
/ 1,2-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.546
Error Coefficients	

Relative Standard Deviation: 8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	1.33555	50.0	440268.0	1.33555	Y
2	IC 410-557456/13	4.0	5.951164	50.0	435377.0	1.487791	Y
3	IC 410-557456/14	10.0	16.849428	50.0	462443.0	1.684943	Y
4	IC 410-557456/15	20.0	31.613014	50.0	453443.0	1.580651	Y
5	ICIS 410-557456/16	50.0	85.266482	50.0	437516.0	1.70533	Y
6	IC 410-557456/17	100.0	158.995953	50.0	463275.0	1.58996	Y
7	IC 410-557456/18	300.0	432.186597	50.0	487950.0	1.440622	Y



Calibration

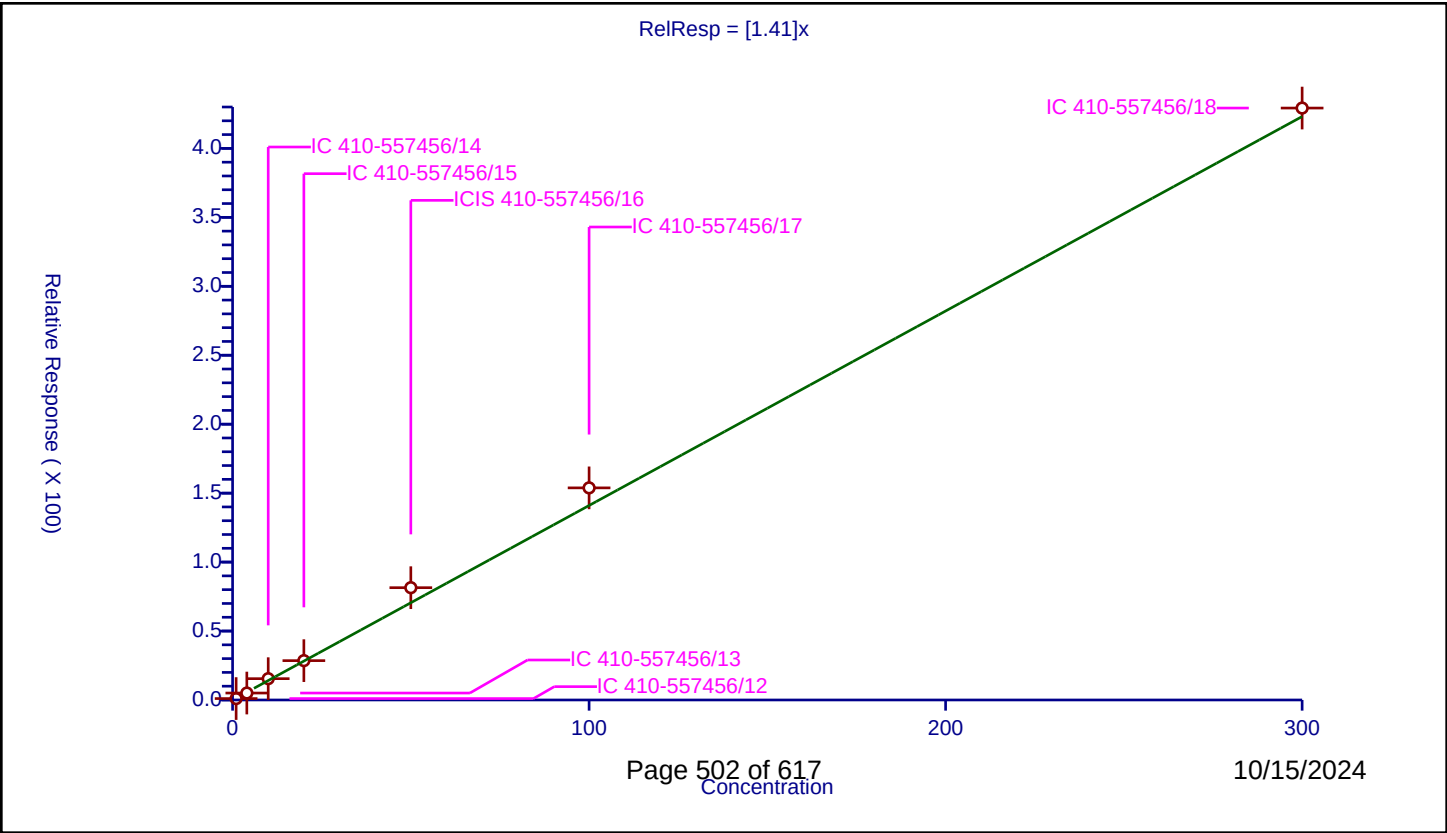
/ o-diethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.41
Error Coefficients	

Relative Standard Deviation: 14.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	1.041752	50.0	440268.0	1.041752	Y
2	IC 410-557456/13	4.0	5.044479	50.0	435377.0	1.26112	Y
3	IC 410-557456/14	10.0	15.455635	50.0	462443.0	1.545563	Y
4	IC 410-557456/15	20.0	28.52718	50.0	453443.0	1.426359	Y
5	ICIS 410-557456/16	50.0	81.433136	50.0	437516.0	1.628663	Y
6	IC 410-557456/17	100.0	153.811667	50.0	463275.0	1.538117	Y
7	IC 410-557456/18	300.0	429.243263	50.0	487950.0	1.430811	Y



Calibration

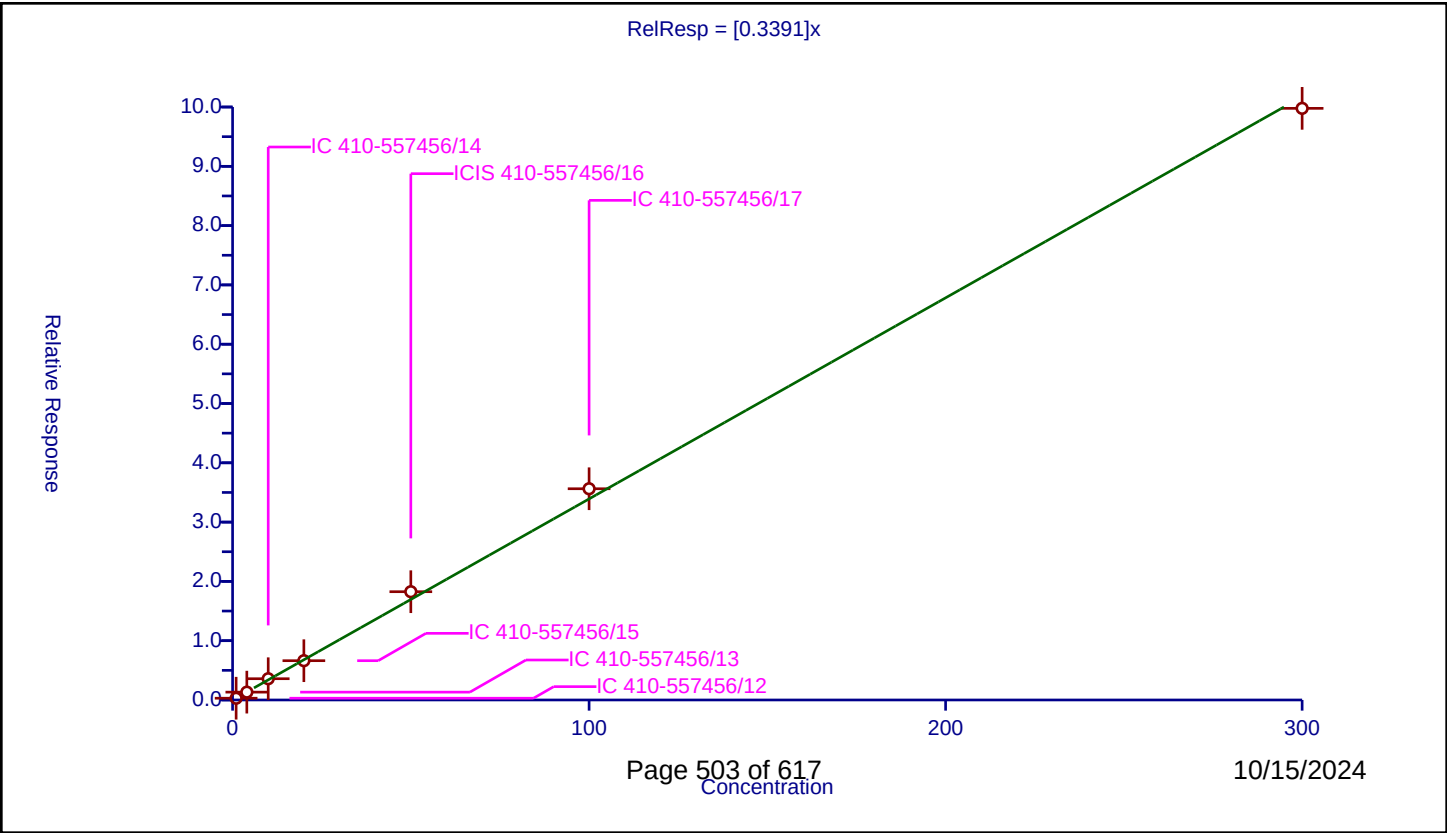
/ 1,2-Dibromo-3-Chloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3391
Error Coefficients	

Relative Standard Deviation: 6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.298341	50.0	440268.0	0.298341	Y
2	IC 410-557456/13	4.0	1.324944	50.0	435377.0	0.331236	Y
3	IC 410-557456/14	10.0	3.58801	50.0	462443.0	0.358801	Y
4	IC 410-557456/15	20.0	6.625199	50.0	453443.0	0.33126	Y
5	ICIS 410-557456/16	50.0	18.261161	50.0	437516.0	0.365223	Y
6	IC 410-557456/17	100.0	35.623658	50.0	463275.0	0.356237	Y
7	IC 410-557456/18	300.0	99.774977	50.0	487950.0	0.332583	Y



Calibration

/ 1,3,5-Trichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

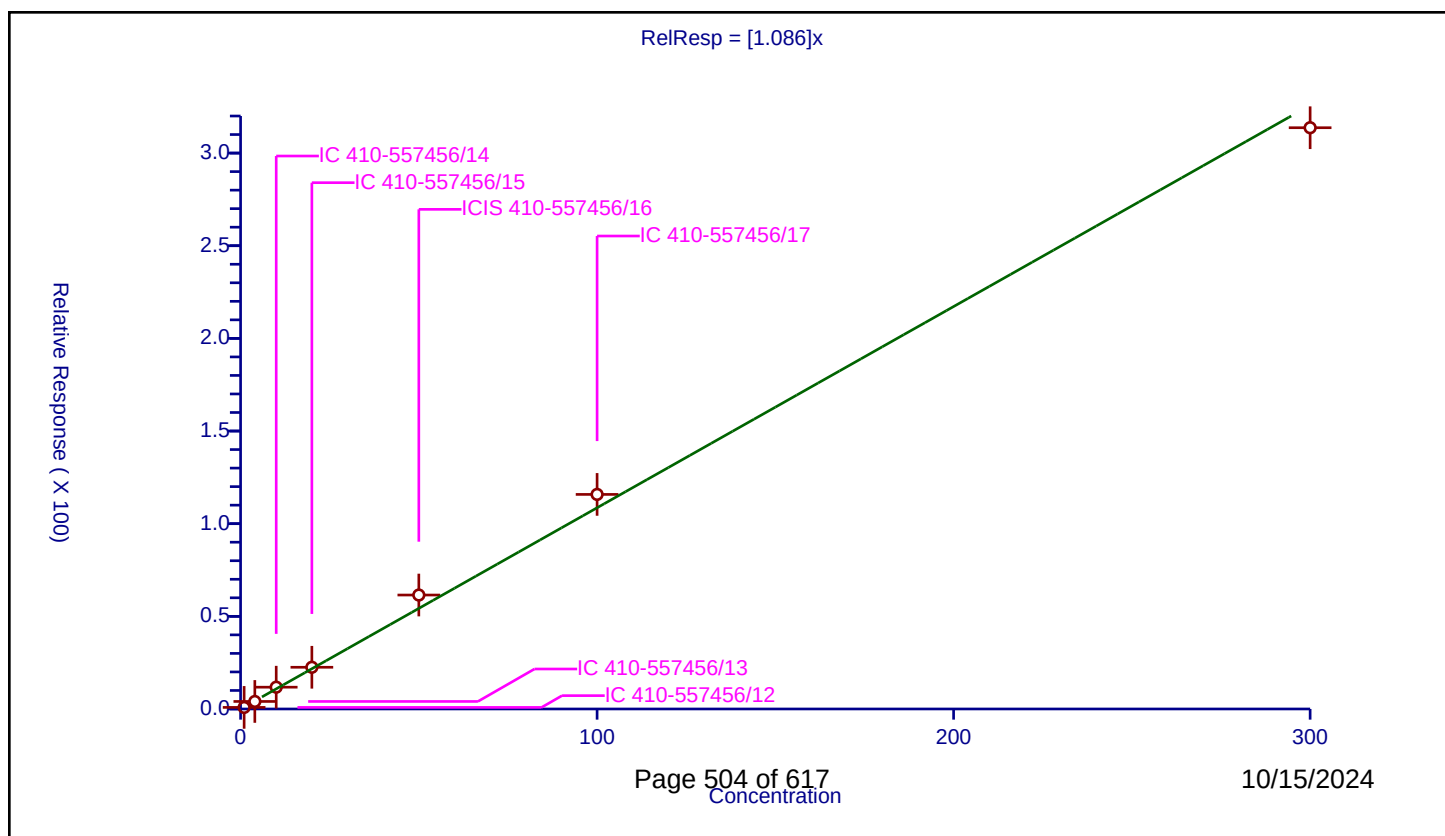
Curve Coefficients

Intercept: 0
Slope: 1.086

Error Coefficients

Relative Standard Deviation: 11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.848915	50.0	440268.0	0.848915	Y
2	IC 410-557456/13	4.0	4.065672	50.0	435377.0	1.016418	Y
3	IC 410-557456/14	10.0	11.767288	50.0	462443.0	1.176729	Y
4	IC 410-557456/15	20.0	22.513414	50.0	453443.0	1.125671	Y
5	ICIS 410-557456/16	50.0	61.492494	50.0	437516.0	1.22985	Y
6	IC 410-557456/17	100.0	115.799579	50.0	463275.0	1.157996	Y
7	IC 410-557456/18	300.0	313.681217	50.0	487950.0	1.045604	Y



Calibration

/ 1,2,4-Trichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

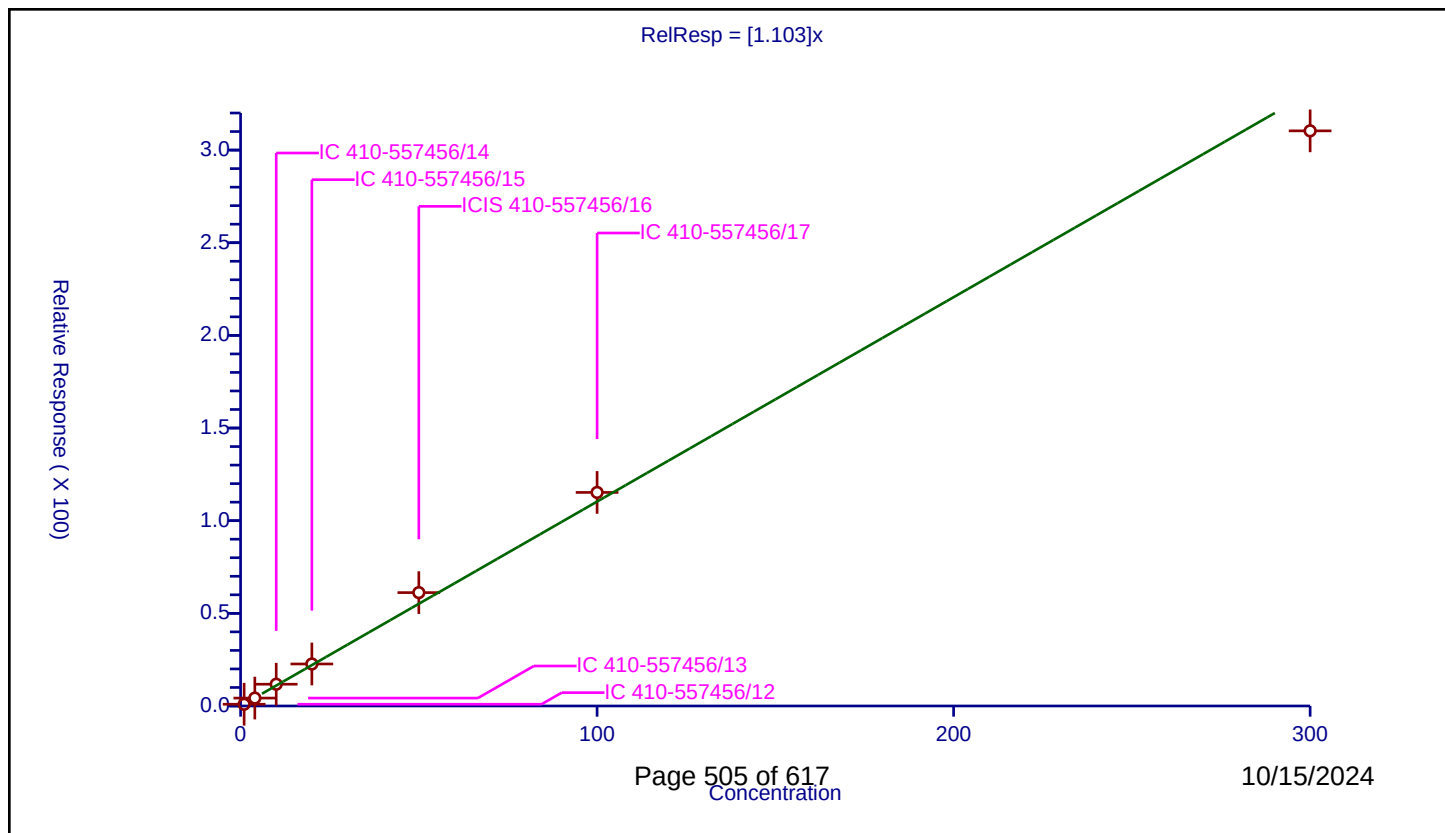
Curve Coefficients

Intercept: 0
 Slope: 1.103

Error Coefficients

Relative Standard Deviation: 8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.936134	50.0	440268.0	0.936134	Y
2	IC 410-557456/13	4.0	4.262398	50.0	435377.0	1.065599	Y
3	IC 410-557456/14	10.0	11.748583	50.0	462443.0	1.174858	Y
4	IC 410-557456/15	20.0	22.675728	50.0	453443.0	1.133786	Y
5	ICIS 410-557456/16	50.0	61.189077	50.0	437516.0	1.223782	Y
6	IC 410-557456/17	100.0	115.253143	50.0	463275.0	1.152531	Y
7	IC 410-557456/18	300.0	310.379137	50.0	487950.0	1.034597	Y



Calibration

/ 2-Ethylhexyl acrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

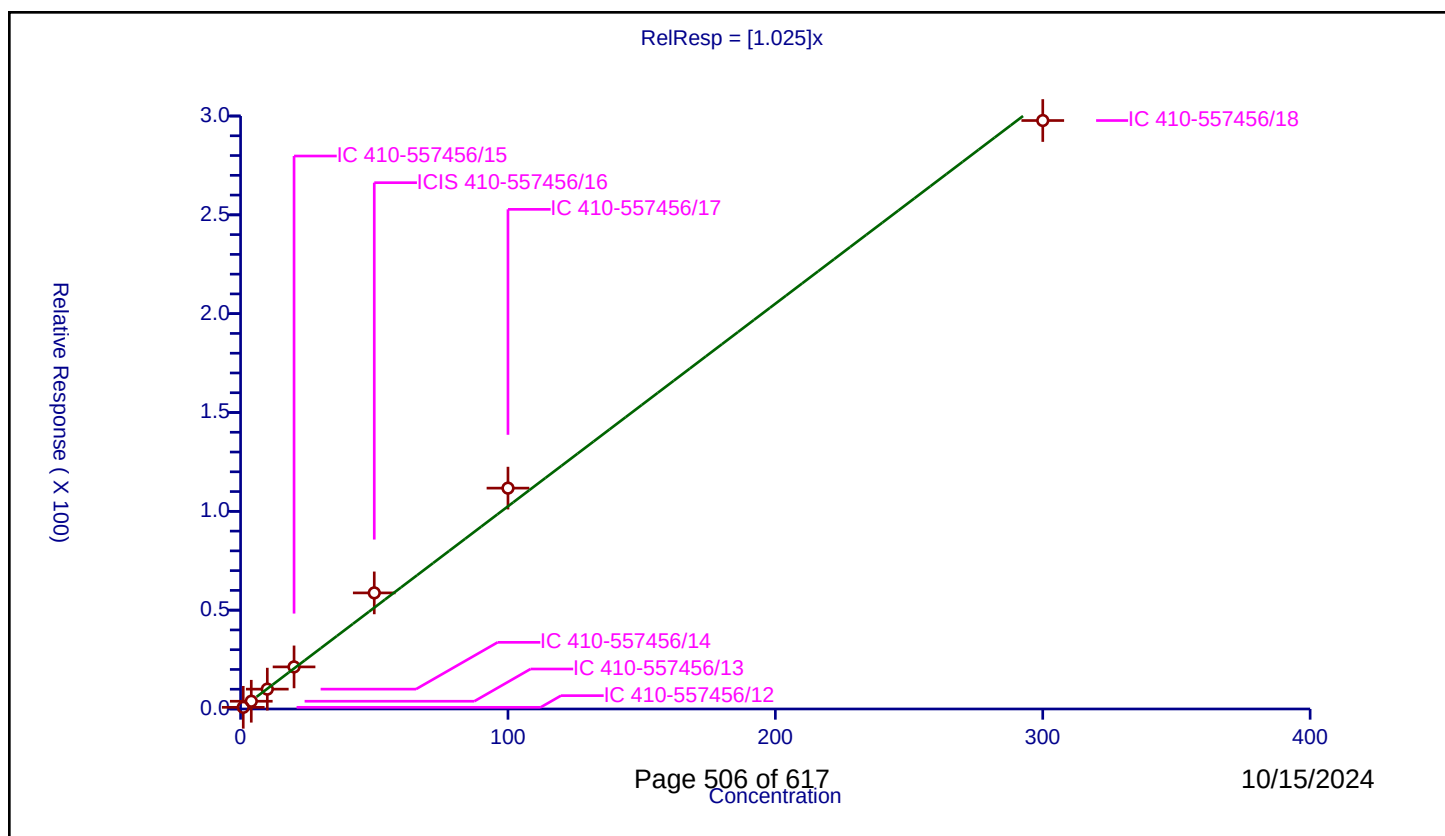
Curve Coefficients

Intercept: 0
 Slope: 1.025

Error Coefficients

Relative Standard Deviation: 10.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.00005	0.842328	50.0	440268.0	0.842286	Y
2	IC 410-557456/13	4.0002	3.925678	50.0	435377.0	0.98137	Y
3	IC 410-557456/14	10.0005	10.037561	50.0	462443.0	1.003706	Y
4	IC 410-557456/15	20.001	21.292533	50.0	453443.0	1.064573	Y
5	ICIS 410-557456/16	50.0025	58.734309	50.0	437516.0	1.174627	Y
6	IC 410-557456/17	100.005	111.739032	50.0	463275.0	1.117334	Y
7	IC 410-557456/18	300.015	297.715032	50.0	487950.0	0.992334	Y



Calibration

/ Hexachlorobutadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

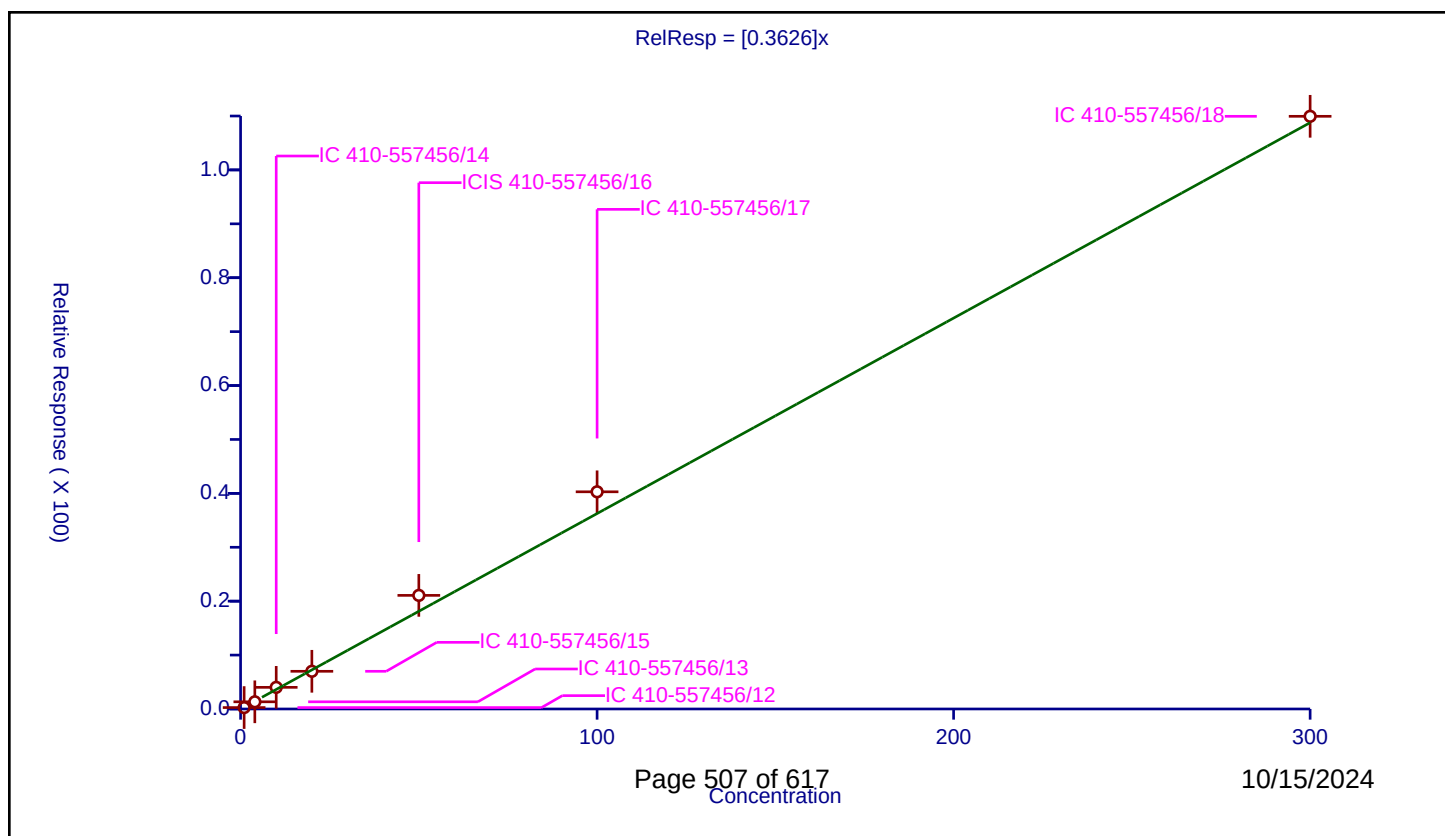
Curve Coefficients

Intercept: 0
Slope: 0.3626

Error Coefficients

Relative Standard Deviation: 14.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.263135	50.0	440268.0	0.263135	Y
2	IC 410-557456/13	4.0	1.330916	50.0	435377.0	0.332729	Y
3	IC 410-557456/14	10.0	4.016711	50.0	462443.0	0.401671	Y
4	IC 410-557456/15	20.0	6.989963	50.0	453443.0	0.349498	Y
5	ICIS 410-557456/16	50.0	21.073972	50.0	437516.0	0.421479	Y
6	IC 410-557456/17	100.0	40.288813	50.0	463275.0	0.402888	Y
7	IC 410-557456/18	300.0	109.947741	50.0	487950.0	0.366492	Y



Calibration

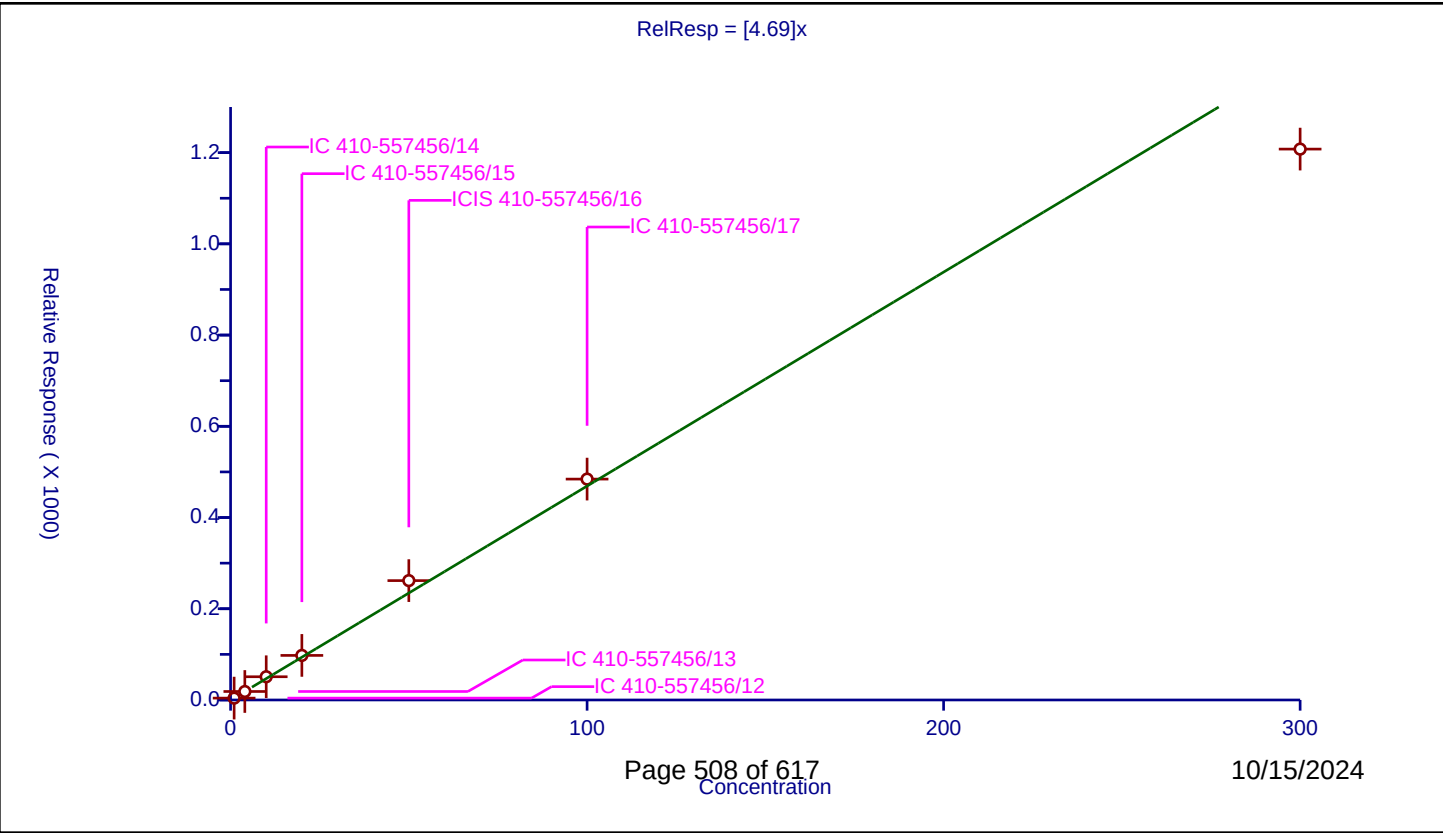
/ Naphthalene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.69
Error Coefficients	

Relative Standard Deviation: 10.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	4.094779	50.0	440268.0	4.094779	Y
2	IC 410-557456/13	4.0	18.606059	50.0	435377.0	4.651515	Y
3	IC 410-557456/14	10.0	50.974715	50.0	462443.0	5.097471	Y
4	IC 410-557456/15	20.0	97.718015	50.0	453443.0	4.885901	Y
5	ICIS 410-557456/16	50.0	261.711915	50.0	437516.0	5.234238	Y
6	IC 410-557456/17	100.0	484.257514	50.0	463275.0	4.842575	Y
7	IC 410-557456/18	300.0	1207.744236	50.0	487950.0	4.025814	Y



Calibration

/ 1,2,3-Trichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

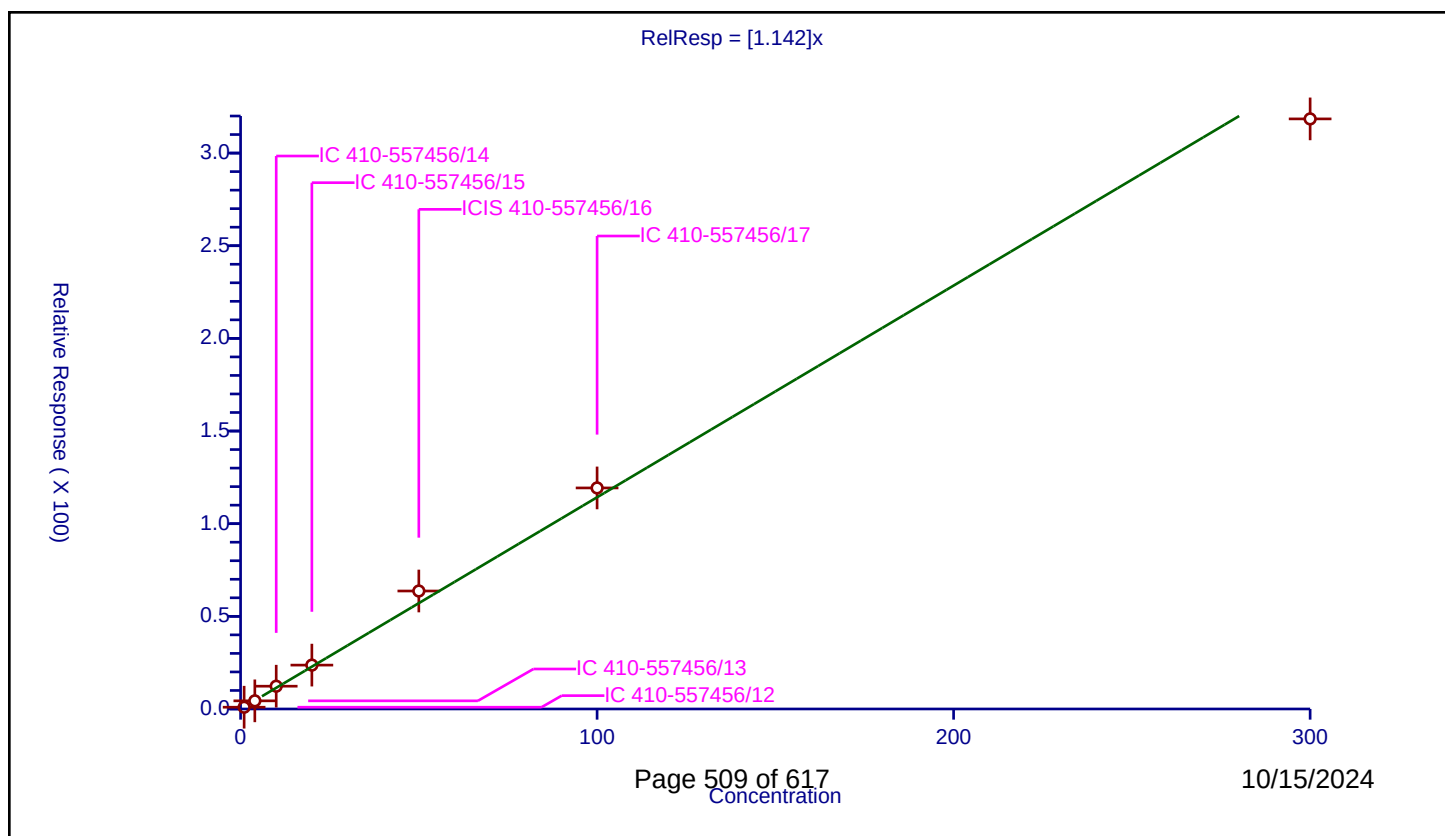
Curve Coefficients

Intercept: 0
Slope: 1.142

Error Coefficients

Relative Standard Deviation: 9.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	0.955668	50.0	440268.0	0.955668	Y
2	IC 410-557456/13	4.0	4.400209	50.0	435377.0	1.100052	Y
3	IC 410-557456/14	10.0	12.300543	50.0	462443.0	1.230054	Y
4	IC 410-557456/15	20.0	23.673538	50.0	453443.0	1.183677	Y
5	ICIS 410-557456/16	50.0	63.667157	50.0	437516.0	1.273343	Y
6	IC 410-557456/17	100.0	119.286817	50.0	463275.0	1.192868	Y
7	IC 410-557456/18	300.0	318.439082	50.0	487950.0	1.061464	Y



Calibration

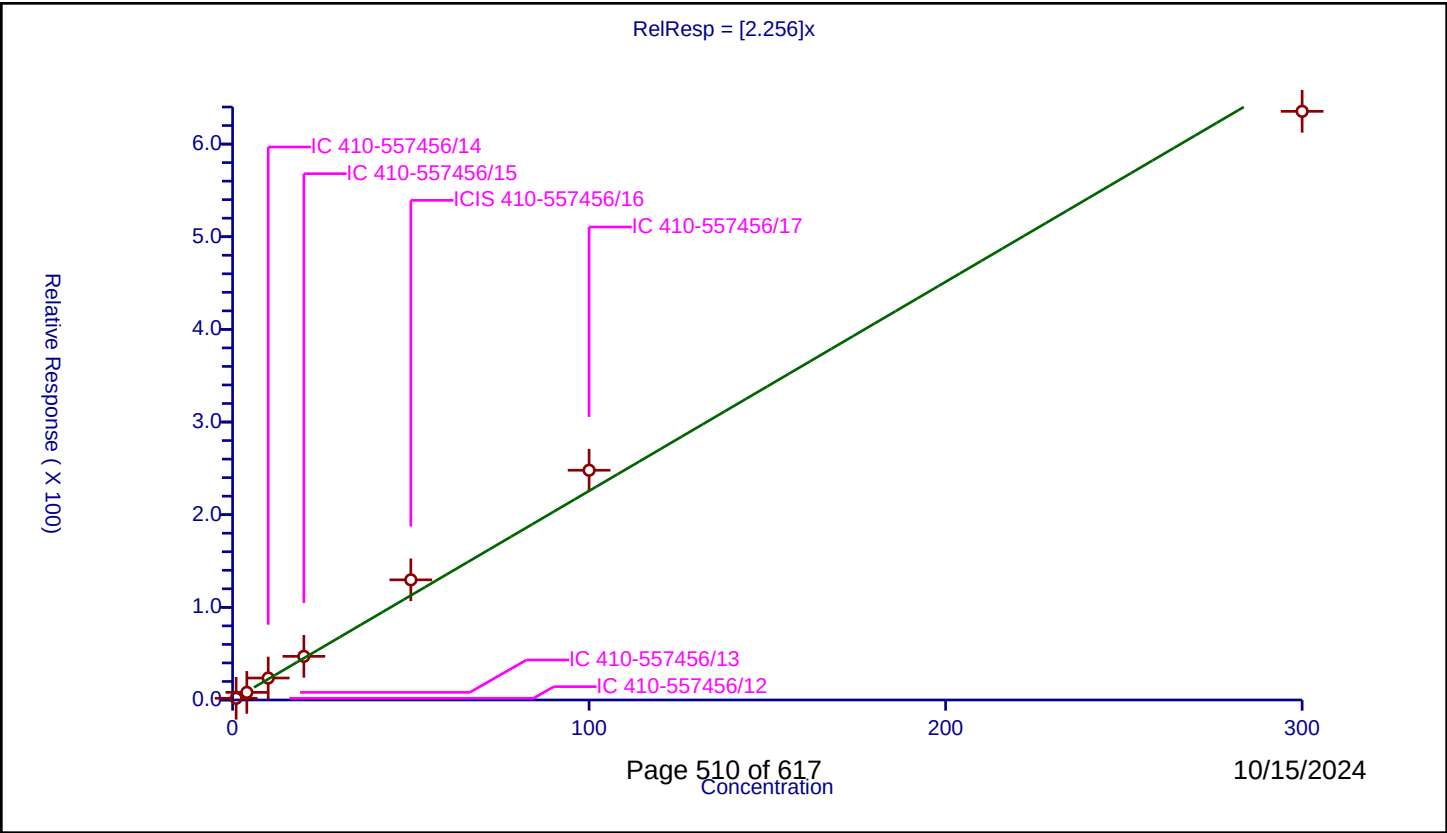
/ 2-Methylnaphthalene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.256
Error Coefficients	

Relative Standard Deviation: 11.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-557456/12	1.0	1.824116	50.0	440268.0	1.824116	Y
2	IC 410-557456/13	4.0	8.215524	50.0	435377.0	2.053881	Y
3	IC 410-557456/14	10.0	23.708327	50.0	462443.0	2.370833	Y
4	IC 410-557456/15	20.0	47.112537	50.0	453443.0	2.355627	Y
5	ICIS 410-557456/16	50.0	129.668058	50.0	437516.0	2.593361	Y
6	IC 410-557456/17	100.0	247.978199	50.0	463275.0	2.479782	Y
7	IC 410-557456/18	300.0	635.336407	50.0	487950.0	2.117788	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.: _____

Lab Sample ID: ICV 410-557456/20

Calibration Date: 10/01/2024 01:24

Instrument ID: 9137

Calib Start Date: 09/30/2024 22:30

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Calib End Date: 10/01/2024 00:40

Lab File ID: WS30X19.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.5639	0.4290	0.1000	15.2	20.0	-23.9	30.0
Chloromethane	Ave	0.5425	0.4129	0.1000	15.2	20.0	-23.9	30.0
Vinyl chloride	Ave	0.5372	0.4505	0.1000	16.8	20.0	-16.1	30.0
1,3-Butadiene	Ave	0.5451	0.4090		15.0	20.0	-25.0	30.0
Bromomethane	Ave	0.3829	0.3144	0.1000	16.4	20.0	-17.9	30.0
Chloroethane	Ave	0.2694	0.2424	0.1000	18.0	20.0	-10.0	30.0
Dichlorofluoromethane	Ave	0.8093	0.6850		16.9	20.0	-15.4	30.0
Trichlorofluoromethane	Ave	0.6470	0.5607	0.1000	17.3	20.0	-13.3	30.0
n-Pentane	Ave	0.4570	0.4568		20.0	20.0	-0.0	30.0
Ethanol	Ave	0.0621	0.0652		1050	1000	5.0	30.0
Freon 123a	Ave	0.3924	0.3768		19.2	20.0	-4.0	30.0
Acrolein	Ave	1.271	1.357		161	150	6.8	30.0
1,1-Dichloroethene	Ave	0.2611	0.3146	0.1000	24.1	20.0	20.5	30.0
Acetone	Ave	0.7621	0.8001	0.1000	262	250	5.0	30.0
Freon 113	Ave	0.3206	0.3408	0.1000	21.3	20.0	6.3	30.0
2-Propanol	Ave	0.7807	0.7448		143	150	-4.6	30.0
Methyl iodide	Ave	0.5273	0.5282		20.0	20.0	0.2	30.0
Carbon disulfide	Ave	0.9092	0.9505	0.1000	20.9	20.0	4.5	30.0
Methyl acetate	Ave	0.3354	0.3346	0.1000	19.9	20.0	-0.3	30.0
Allyl chloride	Ave	0.3801	0.3590		18.9	20.0	-5.5	30.0
Methylene Chloride	Ave	0.3015	0.3151	0.1000	20.9	20.0	4.5	30.0
t-Butyl alcohol	Ave	1.106	1.013		183	200	-8.5	30.0
Acrylonitrile	Ave	0.1771	0.1720		97.2	100	-2.8	30.0
Methyl tert-butyl ether	Ave	0.9237	0.8699	0.1000	18.8	20.0	-5.8	30.0
trans-1,2-Dichloroethene	Ave	0.2491	0.2701	0.1000	21.7	20.0	8.4	30.0
n-Hexane	Ave	0.3155	0.3341		21.2	20.0	5.9	30.0
1,1-Dichloroethane	Ave	0.4242	0.4556	0.2000	21.5	20.0	7.4	30.0
Isopropyl ether	Ave	0.8279	0.7782		18.8	20.0	-6.0	30.0
2-Chloro-1,3-butadiene	Ave	0.3835	0.3784		19.7	20.0	-1.3	30.0
Ethyl t-butyl ether	Ave	0.8793	0.8368		19.0	20.0	-4.8	30.0
2-Butanone (MEK)	Ave	0.2380	0.2174	0.1000	228	250	-8.7	30.0
cis-1,2-Dichloroethene	Ave	0.2848	0.2917	0.1000	20.5	20.0	2.4	30.0
2,2-Dichloropropane	Ave	0.4615	0.4755		20.6	20.0	3.0	30.0
Propionitrile	Ave	1.245	1.174		141	150	-5.7	30.0
Methyl acrylate	Ave	0.4202	0.4479		21.3	20.0	6.6	30.0
Methacrylonitrile	Ave	0.1740	0.1695		146	150	-2.5	30.0
Bromochloromethane	Ave	0.1484	0.1488		20.1	20.0	0.3	30.0
Tetrahydrofuran	Ave	1.086	0.9856		90.7	100	-9.3	30.0
Chloroform	Ave	0.4184	0.4397	0.2000	21.0	20.0	5.1	30.0
1,1,1-Trichloroethane	Ave	0.4440	0.4917	0.1000	22.2	20.0	10.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Lab Sample ID: ICV 410-557456/20

Calibration Date: 10/01/2024 01:24

Instrument ID: 9137

Calib Start Date: 09/30/2024 22:30

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Calib End Date: 10/01/2024 00:40

Lab File ID: WS30X19.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Cyclohexane	Ave	0.5279	0.5601	0.1000	21.2	20.0	6.1	30.0
1,1-Dichloropropene	Ave	0.3685	0.3848		20.9	20.0	4.4	30.0
Carbon tetrachloride	Ave	0.3707	0.4075	0.1000	22.0	20.0	9.9	30.0
Isobutyl alcohol	Ave	0.3688	0.3132		425	500	-15.1	30.0
Benzene	Ave	1.055	1.087	0.5000	20.6	20.0	3.1	30.0
1,2-Dichloroethane	Ave	0.3332	0.3292	0.1000	19.8	20.0	-1.2	30.0
t-Amyl methyl ether	Ave	0.8623	0.8322		19.3	20.0	-3.5	30.0
n-Heptane	Ave	0.2813	0.2911		20.7	20.0	3.4	30.0
n-Butanol	Ave	0.2745	0.2597		946	1000	-5.4	30.0
Trichloroethene	Ave	0.2801	0.2865	0.2000	20.5	20.0	2.3	30.0
Ethyl acrylate	Ave	0.4356	0.4440		20.4	20.0	1.9	30.0
Methylcyclohexane	Ave	0.4871	0.5073	0.1000	20.8	20.0	4.2	30.0
t-Amyl ethyl ether	Ave	0.4109	0.3908		19.0	20.0	-4.9	30.0
1,2-Dichloropropane	Ave	0.2673	0.2774	0.1000	20.8	20.0	3.8	30.0
Methyl methacrylate	Ave	0.2559	0.2347		18.3	20.0	-8.3	30.0
1,4-Dioxane	Ave	0.0782	0.0710	0.0050	454	500	-9.1	30.0
Dibromomethane	Ave	0.1806	0.1782		19.7	20.0	-1.3	30.0
Bromodichloromethane	Ave	0.3079	0.3093	0.2000	20.1	20.0	0.5	30.0
2-Nitropropane	Ave	1.770	1.448		16.4	20.0	-18.2	30.0
2-Chloroethyl vinyl ether	Ave	0.1887	0.1893		20.1	20.0	0.3	30.0
cis-1,3-Dichloropropene	Ave	0.4109	0.3846	0.2000	18.7	20.0	-6.4	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4552	0.4620	0.1000	254	250	1.5	30.0
Toluene	Ave	0.8767	0.9243	0.4000	21.1	20.0	5.4	30.0
trans-1,3-Dichloropropene	Ave	0.4913	0.4794	0.1000	19.5	20.0	-2.4	30.0
Ethyl methacrylate	Ave	0.5888	0.5678		19.3	20.0	-3.6	30.0
1,1,2-Trichloroethane	Ave	0.3325	0.3300	0.1000	19.9	20.0	-0.7	30.0
Tetrachloroethene	Ave	0.3632	0.3987	0.2000	22.0	20.0	9.8	30.0
1,3-Dichloropropane	Ave	0.5464	0.5353		19.6	20.0	-2.0	30.0
2-Hexanone	Ave	0.4265	0.4288	0.1000	251	250	0.5	30.0
Dibromochloromethane	Ave	0.3377	0.3262		19.3	20.0	-3.4	30.0
1,2-Dibromoethane (EDB)	Ave	0.3596	0.3500	0.1000	19.5	20.0	-2.6	30.0
1-Chlorohexane	Ave	0.4739	0.4969		21.0	20.0	4.8	30.0
Chlorobenzene	Ave	0.9913	1.023	0.5000	20.6	20.0	3.2	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3736	0.3884		20.8	20.0	4.0	30.0
Ethylbenzene	Ave	1.762	1.871	0.1000	21.2	20.0	6.2	30.0
m&p-Xylene	Ave	0.6965	0.7383	0.1000	42.4	40.0	6.0	30.0
n-Butyl acrylate	Ave	0.8363	0.9217		22.0	20.0	10.2	30.0
o-Xylene	Ave	0.7282	0.7685	0.3000	21.1	20.0	5.5	30.0
Styrene	Ave	1.113	1.164	0.3000	20.9	20.0	4.6	30.0
Bromoform	Ave	0.2607	0.2533	0.1000	19.4	20.0	-2.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.: _____

Lab Sample ID: ICV 410-557456/20

Calibration Date: 10/01/2024 01:24

Instrument ID: 9137

Calib Start Date: 09/30/2024 22:30

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Calib End Date: 10/01/2024 00:40

Lab File ID: WS30X19.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	1.656	2.055	0.1000	24.8	20.0	24.1	30.0
Cyclohexanone	Ave	0.2628	0.2625		499	500	-0.1	30.0
1,1,2,2-Tetrachloroethane	Ave	1.138	1.123	0.3000	19.7	20.0	-1.3	30.0
Bromobenzene	Ave	0.7774	0.7900		20.3	20.0	1.6	30.0
trans-1,4-Dichloro-2-butene	Ave	0.3004	0.2957		98.5	100	-1.5	30.0
1,2,3-Trichloropropane	Ave	0.3547	0.3404		19.2	20.0	-4.0	30.0
N-Propylbenzene	Ave	3.608	3.909		21.7	20.0	8.3	30.0
2-Chlorotoluene	Ave	0.7923	0.8378		21.1	20.0	5.7	30.0
1,3,5-Trimethylbenzene	Ave	2.673	2.860		21.4	20.0	7.0	30.0
4-Chlorotoluene	Ave	0.7556	0.7972		21.1	20.0	5.5	30.0
tert-Butylbenzene	Ave	0.5031	0.5247		20.9	20.0	4.3	30.0
1,2,4-Trimethylbenzene	Ave	2.770	2.917		21.1	20.0	5.3	30.0
sec-Butylbenzene	Ave	3.231	3.493		21.6	20.0	8.1	30.0
1,3-Dichlorobenzene	Ave	1.449	1.495	0.6000	20.6	20.0	3.2	30.0
p-Isopropyltoluene	Ave	2.854	3.029		21.2	20.0	6.2	30.0
1,4-Dichlorobenzene	Ave	1.485	1.539	0.5000	20.7	20.0	3.6	30.0
1,2,3-Trimethylbenzene	Ave	2.981	3.060		20.5	20.0	2.7	30.0
Benzyl chloride	Ave	2.219	2.173		19.6	20.0	-2.1	30.0
1,3-Diethylbenzene	Ave	1.659	1.821		21.9	20.0	9.7	30.0
1,4-Diethylbenzene	Ave	1.742	1.896		21.8	20.0	8.9	30.0
n-Butylbenzene	Ave	1.346	1.446		21.5	20.0	7.4	30.0
1,2-Dichlorobenzene	Ave	1.546	1.606	0.4000	20.8	20.0	3.8	30.0
1,2-Diethylbenzene	Ave	1.410	1.455		20.6	20.0	3.2	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.3391	0.3169	0.0500	18.7	20.0	-6.6	30.0
1,3,5-Trichlorobenzene	Ave	1.086	1.149		21.2	20.0	5.8	30.0
1,2,4-Trichlorobenzene	Ave	1.103	1.169	0.2000	21.2	20.0	6.0	30.0
2-Ethylhexyl acrylate	Ave	1.025	1.152		22.5	20.0	12.4	30.0
Hexachlorobutadiene	Ave	0.3626	0.3943		21.8	20.0	8.8	30.0
Naphthalene	Ave	4.690	4.861		20.7	20.0	3.6	30.0
1,2,3-Trichlorobenzene	Ave	1.142	1.167		20.4	20.0	2.2	30.0
2-Methylnaphthalene	Ave	2.256	2.612		23.1	20.0	15.7	30.0
Dibromofluoromethane (Surr)	Ave	0.2402	0.2371		49.4	50.0	-1.3	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0627	0.0618		49.3	50.0	-1.4	30.0
Toluene-d8 (Surr)	Ave	1.320	1.332		50.4	50.0	0.9	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4963	0.5064		51.0	50.0	2.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X19.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 01-Oct-2024 01:24:30 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0126367-020
 Misc. Info.: ICV
 Operator ID: MCD07824 Instrument ID: 9137
 Sublist:
 Method: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Oct-2024 09:16:56 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1618

First Level Reviewer: DVW2

Date: 01-Oct-2024 08:20:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.011	2.014	-0.003	98	177502	20.0	15.2	
7 Chloromethane	50	2.210	2.210	0.000	100	170855	20.0	15.2	
8 Vinyl chloride	62	2.329	2.326	0.003	98	186403	20.0	16.8	
9 Butadiene	39	2.351	2.351	0.000	95	169237	20.0	15.0	
11 Bromomethane	94	2.688	2.688	0.000	90	130092	20.0	16.4	
12 Chloroethane	64	2.772	2.768	0.004	100	100302	20.0	18.0	
13 Dichlorofluoromethane	67	3.041	3.038	0.003	98	283458	20.0	16.9	
14 Trichlorofluoromethane	101	3.109	3.102	0.007	98	232030	20.0	17.3	
15 Pentane	43	3.137	3.134	0.003	95	189005	20.0	20.0	
17 Ethanol	45	3.266	3.263	0.003	90	92485	999.9	1050.3	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.458	3.445	0.013	91	155914	20.0	19.2	
19 Acrolein	56	3.539	3.532	0.007	99	289382	150.3	160.5	
21 1,1-Dichloroethene	96	3.686	3.686	0.000	98	130190	20.0	24.1	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.712	3.712	0.000	64	141014	20.0	21.3	
20 Acetone	58	3.705	3.712	-0.007	100	283746	250.0	262.5	
25 Iodomethane	142	3.895	3.888	0.007	97	218560	20.0	20.0	
23 Isopropyl alcohol	45	3.888	3.891	-0.003	47	158474	150.0	143.1	
26 Carbon disulfide	76	4.010	4.010	0.000	99	393324	20.0	20.9	
28 Methyl acetate	43	4.145	4.148	-0.003	95	138443	20.0	19.9	
27 3-Chloro-1-propene	41	4.171	4.171	0.000	94	148572	20.0	18.9	
30 Methylene Chloride	84	4.386	4.379	0.007	89	130390	20.0	20.9	
* 32 t-Butyl alcohol-d10 (IS)	65	4.395	4.418	-0.023	58	354643	250.0	250.0	
33 2-Methyl-2-propanol	59	4.565	4.556	0.009	97	287285	200.0	183.1	
34 Acrylonitrile	53	4.732	4.729	0.003	98	355899	100.0	97.2	
35 trans-1,2-Dichloroethene	96	4.793	4.790	0.003	99	111753	20.0	21.7	
36 Methyl tert-butyl ether	73	4.793	4.793	0.000	88	359957	20.0	18.8	
37 Hexane	57	5.220	5.223	-0.003	92	138238	20.0	21.2	
38 1,1-Dichloroethane	63	5.461	5.464	-0.003	97	188538	20.0	21.5	
40 Isopropyl ether	45	5.522	5.515	0.007	93	322018	20.0	18.8	
41 2-Chloro-1,3-butadiene	53	5.563	5.570	-0.007	90	156567	20.0	19.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 Tert-butyl ethyl ether	59	6.061	6.061	0.000	97	346277	20.0	19.0	
44 2-Butanone (MEK)	43	6.279	6.272	0.007	99	1124734	250.0	228.4	
43 cis-1,2-Dichloroethene	96	6.301	6.301	0.000	84	120712	20.0	20.5	
45 2,2-Dichloropropane	77	6.324	6.321	0.003	86	196740	20.0	20.6	
47 Propionitrile	54	6.375	6.372	0.003	95	249857	150.0	141.5	
48 Methyl acrylate	55	6.388	6.394	-0.006	99	185135	20.0	21.3	
49 Methacrylonitrile	67	6.584	6.584	0.000	93	526123	150.0	146.2	
50 Chlorobromomethane	128	6.629	6.629	0.000	90	61582	20.0	20.1	
51 Tetrahydrofuran	71	6.645	6.638	0.007	78	139818	100.0	90.7	
52 Chloroform	83	6.780	6.780	0.000	94	181945	20.0	21.0	
\$ 54 Dibromofluoromethane (Surr)	113	6.998	6.994	0.004	94	245302	50.0	49.4	
55 1,1,1-Trichloroethane	97	7.007	7.014	-0.007	97	203466	20.0	22.2	
56 Cyclohexane	56	7.100	7.100	0.000	91	231757	20.0	21.2	
58 Carbon tetrachloride	117	7.219	7.213	0.006	97	168617	20.0	22.0	
57 1,1-Dichloropropene	75	7.219	7.219	0.000	96	159211	20.0	20.9	
59 Isobutyl alcohol	41	7.392	7.396	-0.004	96	222141	500.0	424.6	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.463	7.460	0.003	75	63939	50.0	49.3	
61 Benzene	78	7.486	7.485	0.001	97	449963	20.0	20.6	
62 1,2-Dichloroethane	62	7.559	7.562	-0.003	98	136235	20.0	19.8	
64 Tert-amyl methyl ether	73	7.681	7.678	0.003	99	344382	20.0	19.3	
* 65 Fluorobenzene (IS)	96	7.890	7.893	-0.003	99	1034493	50.0	50.0	
66 n-Heptane	43	7.893	7.896	-0.003	81	120438	20.0	20.7	
67 n-Butanol	56	8.265	8.268	-0.003	91	368367	1000.0	946.0	
68 Trichloroethene	95	8.371	8.368	0.003	96	118556	20.0	20.5	
69 Ethyl acrylate	55	8.477	8.480	-0.003	98	183704	20.0	20.4	
70 Methylcyclohexane	83	8.670	8.673	-0.003	90	209927	20.0	20.8	
71 1,2-Dichloropropane	63	8.702	8.702	0.000	72	114803	20.0	20.8	
72 2-ethoxy-2-methyl butane	87	8.698	8.708	-0.010	91	161727	20.0	19.0	
74 Methyl methacrylate	69	8.785	8.785	0.000	92	97132	20.0	18.3	
75 1,4-Dioxane	88	8.795	8.801	-0.006	45	50384	500.0	454.3	
73 Dibromomethane	93	8.814	8.811	0.003	97	73752	20.0	19.7	
77 Dichlorobromomethane	83	9.051	9.051	0.000	100	127978	20.0	20.1	
78 2-Nitropropane	41	9.327	9.327	0.000	96	41077	20.0	16.4	
79 2-Chloroethyl vinyl ether	63	9.404	9.401	0.003	92	78346	20.0	20.1	
81 cis-1,3-Dichloropropene	75	9.587	9.584	0.003	92	159140	20.0	18.7	
83 4-Methyl-2-pentanone (MIBK)	43	9.757	9.761	-0.004	96	2389839	250.0	253.7	
\$ 84 Toluene-d8 (Surr)	98	9.886	9.886	0.000	93	1035922	50.0	50.4	
85 Toluene	92	9.960	9.956	0.004	98	287522	20.0	21.1	
86 trans-1,3-Dichloropropene	75	10.213	10.216	-0.003	93	149133	20.0	19.5	
87 Ethyl methacrylate	69	10.271	10.271	0.000	89	176611	20.0	19.3	
88 1,1,2-Trichloroethane	97	10.415	10.415	0.000	90	102665	20.0	19.9	
90 Tetrachloroethene	166	10.502	10.499	0.003	97	124033	20.0	22.0	
91 1,3-Dichloropropane	76	10.579	10.576	0.003	89	166504	20.0	19.6	
94 2-Hexanone	43	10.630	10.627	0.003	95	1667249	250.0	251.4	
96 Chlorodibromomethane	129	10.787	10.784	0.003	90	101479	20.0	19.3	
98 Ethylene Dibromide	107	10.900	10.897	0.003	98	108883	20.0	19.5	
* 101 Chlorobenzene-d5 (IS)	117	11.327	11.327	0.000	85	777662	50.0	50.0	
103 1-Chlorohexane	91	11.330	11.333	-0.003	97	154573	20.0	21.0	
102 Chlorobenzene	112	11.349	11.349	0.000	96	318088	20.0	20.6	
104 1,1,1,2-Tetrachloroethane	131	11.429	11.432	-0.003	97	120819	20.0	20.8	
105 Ethylbenzene	91	11.436	11.436	0.000	98	582085	20.0	21.2	
106 m-Xylene & p-Xylene	106	11.548	11.548	0.000	98	459315	40.0	42.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 n-Butyl acrylate	55	11.821	11.824	-0.003	97	286193	20.0	22.0	
108 o-Xylene	106	11.875	11.878	-0.003	96	239042	20.0	21.1	
109 Styrene	104	11.891	11.891	0.000	93	361954	20.0	20.9	
110 Bromoform	173	12.045	12.049	-0.004	96	78778	20.0	19.4	
111 Isopropylbenzene	105	12.177	12.174	0.003	95	639142	20.0	24.8	
113 Cyclohexanone	55	12.260	12.260	0.000	91	186159	499.9	499.3	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.318	12.318	0.000	90	393825	50.0	51.0	
116 1,1,2,2-Tetrachloroethane	83	12.421	12.421	0.000	95	201122	20.0	19.7	
115 Bromobenzene	156	12.437	12.437	0.000	96	141463	20.0	20.3	
119 trans-1,4-Dichloro-2-butene	53	12.446	12.446	0.000	93	264804	100.0	98.5	
118 1,2,3-Trichloropropane	110	12.466	12.469	-0.003	84	60958	20.0	19.2	
120 N-Propylbenzene	91	12.501	12.501	0.000	98	700079	20.0	21.7	
121 2-Chlorotoluene	126	12.578	12.581	-0.003	98	150033	20.0	21.1	
122 1,3,5-Trimethylbenzene	105	12.636	12.636	0.000	94	512073	20.0	21.4	
123 4-Chlorotoluene	126	12.671	12.671	0.000	97	142753	20.0	21.1	
125 tert-Butylbenzene	134	12.880	12.880	0.000	93	93961	20.0	20.9	
127 1,2,4-Trimethylbenzene	105	12.921	12.918	0.003	97	522320	20.0	21.1	
128 sec-Butylbenzene	105	13.040	13.043	-0.003	94	625589	20.0	21.6	
131 1,3-Dichlorobenzene	146	13.140	13.143	-0.003	98	267733	20.0	20.6	
132 4-Isopropyltoluene	119	13.146	13.149	-0.003	98	542505	20.0	21.2	
* 133 1,4-Dichlorobenzene-d4	152	13.197	13.194	0.003	94	447689	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.213	13.213	0.000	95	275518	20.0	20.7	
148 1,2,3-Trimethylbenzene	105	13.226	13.226	0.000	98	548016	20.0	20.5	
170 Benzyl chloride	91	13.294	13.294	0.000	98	389052	20.0	19.6	
171 1,3-Diethylbenzene	119	13.348	13.348	0.000	95	326081	20.0	21.9	
172 p-Diethylbenzene	119	13.419	13.419	0.000	93	339569	20.0	21.8	
173 n-Butylbenzene	92	13.438	13.441	-0.003	97	258860	20.0	21.5	
174 1,2-Dichlorobenzene	146	13.477	13.473	0.004	98	287514	20.0	20.8	
175 o-diethylbenzene	119	13.493	13.493	0.000	94	260530	20.0	20.6	
176 1,2-Dibromo-3-Chloropropane	75	14.016	14.019	-0.003	88	56741	20.0	18.7	
177 1,3,5-Trichlorobenzene	180	14.141	14.141	0.000	98	205782	20.0	21.2	
179 1,2,4-Trichlorobenzene	180	14.568	14.568	0.000	93	209353	20.0	21.2	
181 2-Ethylhexyl acrylate	55	14.619	14.622	-0.003	80	206468	20.0	22.5	
180 Hexachlorobutadiene	225	14.645	14.648	-0.003	97	70614	20.0	21.8	
182 Naphthalene	128	14.747	14.750	-0.003	97	870427	20.0	20.7	
183 1,2,3-Trichlorobenzene	180	14.895	14.895	0.000	96	209002	20.0	20.4	
184 2-Methylnaphthalene	142	15.537	15.537	0.000	92	467680	20.0	23.1	

QC Flag Legend

Processing Flags

Reagents:

MSV_LCS_VOC#1_00187	Amount Added: 50.00	Units: uL	
MSV_LCS_2CEVE_00192	Amount Added: 50.00	Units: uL	
MSV_LCS_CYC_00010	Amount Added: 50.00	Units: uL	
MSV_LCS_ETOH_00009	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00218	Amount Added: 50.00	Units: uL	
MSV_Q_Acr_Std_00007	Amount Added: 2.00	Units: uL	
MSV_LCS_ACROL_00191	Amount Added: 50.00	Units: uL	
MSV_Cent_ISSS_00031	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 01-Oct-2024 09:16:58

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X19.D

Injection Date: 01-Oct-2024 01:24:30

Instrument ID: 9137

Operator ID: MCD07824

Lims ID: ICV

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

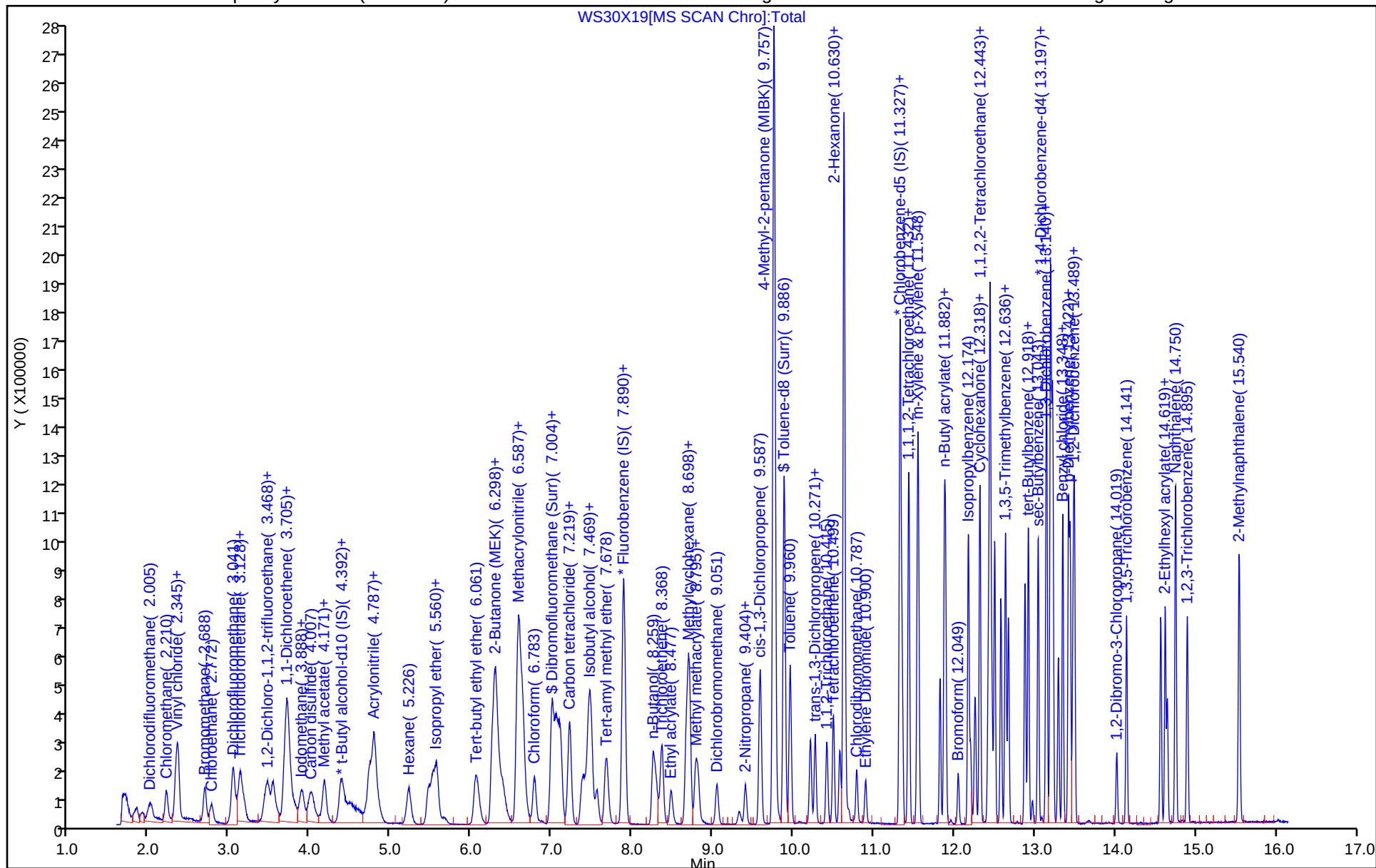
ALS Bottle#: 19

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Lab Sample ID: CCVIS 410-561893/3

Calibration Date: 10/10/2024 22:25

Instrument ID: 9137

Calib Start Date: 09/30/2024 22:30

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Calib End Date: 10/01/2024 00:40

Lab File ID: WC10X52.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.5639	0.5738	0.1000	50.9	50.0	1.7	20.0
Chloromethane	Ave	0.5425	0.5330	0.1000	49.1	50.0	-1.7	20.0
Vinyl chloride	Ave	0.5372	0.5316	0.1000	49.5	50.0	-1.0	20.0
1,3-Butadiene	Ave	0.5451	0.6361		58.3	50.0	16.7	20.0
Bromomethane	Ave	0.3829	0.3793	0.1000	49.5	50.0	-0.9	20.0
Chloroethane	Ave	0.2694	0.2843	0.1000	52.8	50.0	5.5	20.0
Dichlorofluoromethane	Ave	0.8093	0.8415		52.0	50.0	4.0	20.0
Trichlorofluoromethane	Ave	0.6470	0.6681	0.1000	51.6	50.0	3.3	20.0
n-Pentane	Ave	0.4570	0.4395		48.1	50.0	-3.8	20.0
Freon 123a	Ave	0.3924	0.4049		51.6	50.0	3.2	20.0
Acrolein	Ave	1.271	1.774		700	501	39.6*	20.0
1,1-Dichloroethene	Ave	0.2611	0.2676	0.1000	51.3	50.0	2.5	20.0
Freon 113	Ave	0.3206	0.3299	0.1000	51.5	50.0	2.9	20.0
Acetone	Ave	0.7621	0.9304	0.1000	122	100	22.1*	20.0
Methyl iodide	Ave	0.5273	0.5386		51.1	50.0	2.1	20.0
2-Propanol	Ave	0.7807	0.4697		150	250	-39.8*	20.0
Carbon disulfide	Ave	0.9092	0.9299	0.1000	51.1	50.0	2.3	20.0
Methyl acetate	Ave	0.3354	0.3311	0.1000	49.4	50.0	-1.3	20.0
Allyl chloride	Ave	0.3801	0.3812		50.1	50.0	0.3	20.0
Methylene Chloride	Ave	0.3015	0.3022	0.1000	50.1	50.0	0.3	20.0
t-Butyl alcohol	Ave	1.106	0.9159		207	250	-17.2	20.0
Acrylonitrile	Ave	0.1771	0.1872		132	125	5.7	20.0
Methyl tert-butyl ether	Ave	0.9237	0.8656	0.1000	46.9	50.0	-6.3	20.0
trans-1,2-Dichloroethene	Ave	0.2491	0.2596	0.1000	52.1	50.0	4.2	20.0
n-Hexane	Ave	0.3155	0.3079		48.8	50.0	-2.4	20.0
1,1-Dichloroethane	Ave	0.4242	0.4502	0.2000	53.1	50.0	6.1	20.0
Isopropyl ether	Ave	0.8279	0.8235		49.7	50.0	-0.5	20.0
2-Chloro-1,3-butadiene	Ave	0.3835	0.3941		51.4	50.0	2.8	20.0
Ethyl t-butyl ether	Ave	0.8793	0.8199		46.6	50.0	-6.8	20.0
2-Butanone (MEK)	Ave	0.2380	0.2381	0.1000	100	100	0.0	20.0
cis-1,2-Dichloroethene	Ave	0.2848	0.2930	0.1000	51.4	50.0	2.9	20.0
2,2-Dichloropropane	Ave	0.4615	0.4383		47.5	50.0	-5.0	20.0
Propionitrile	Ave	1.245	1.339		269	250	7.5	20.0
Methacrylonitrile	Ave	0.1740	0.1758		126	125	1.0	20.0
Bromochloromethane	Ave	0.1484	0.1554		52.4	50.0	4.7	20.0
Tetrahydrofuran	Ave	1.086	1.131		260	250	4.1	20.0
Chloroform	Ave	0.4184	0.4396	0.2000	52.5	50.0	5.1	20.0
1,1,1-Trichloroethane	Ave	0.4440	0.4470	0.1000	50.3	50.0	0.7	20.0
Cyclohexane	Ave	0.5279	0.5155	0.1000	48.8	50.0	-2.4	20.0
Carbon tetrachloride	Ave	0.3707	0.3836	0.1000	51.7	50.0	3.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Lab Sample ID: CCVIS 410-561893/3

Calibration Date: 10/10/2024 22:25

Instrument ID: 9137

Calib Start Date: 09/30/2024 22:30

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Calib End Date: 10/01/2024 00:40

Lab File ID: WC10X52.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1-Dichloropropene	Ave	0.3685	0.3774		51.2	50.0	2.4	20.0
Isobutyl alcohol	Ave	0.3688	0.3528		598	625	-4.4	20.0
Benzene	Ave	1.055	1.061	0.5000	50.3	50.0	0.6	20.0
1,2-Dichloroethane	Ave	0.3332	0.3387	0.1000	50.8	50.0	1.7	20.0
t-Amyl methyl ether	Ave	0.8623	0.8127		47.1	50.0	-5.7	20.0
n-Heptane	Ave	0.2813	0.2726		48.4	50.0	-3.1	20.0
n-Butanol	Ave	0.2745	0.2564		584	625	-6.6	20.0
Trichloroethene	Ave	0.2801	0.2639	0.2000	47.1	50.0	-5.8	20.0
Methylcyclohexane	Ave	0.4871	0.4538	0.1000	46.6	50.0	-6.8	20.0
t-Amyl ethyl ether	Ave	0.4109	0.3814		46.4	50.0	-7.2	20.0
1,2-Dichloropropane	Ave	0.2673	0.2724	0.1000	50.9	50.0	1.9	20.0
Methyl methacrylate	Ave	0.2559	0.2360		46.1	50.0	-7.8	20.0
1,4-Dioxane	Ave	0.0782	0.0760	0.0050	608	625	-2.8	20.0
Dibromomethane	Ave	0.1806	0.1849		51.2	50.0	2.4	20.0
Bromodichloromethane	Ave	0.3079	0.3153	0.2000	51.2	50.0	2.4	20.0
2-Nitropropane	Ave	1.770	1.795		254	250	1.4	20.0
2-Chloroethyl vinyl ether	Ave	0.1887	0.1961		52.0	50.0	4.0	20.0
cis-1,3-Dichloropropene	Ave	0.4109	0.3856	0.2000	46.9	50.0	-6.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4552	0.4967	0.1000	109	100	9.1	20.0
Toluene	Ave	0.8767	0.8421	0.4000	48.0	50.0	-3.9	20.0
trans-1,3-Dichloropropene	Ave	0.4913	0.4531	0.1000	46.1	50.0	-7.8	20.0
Ethyl methacrylate	Ave	0.5888	0.5563		47.2	50.0	-5.5	20.0
1,1,2-Trichloroethane	Ave	0.3325	0.3222	0.1000	48.5	50.0	-3.1	20.0
Tetrachloroethene	Ave	0.3632	0.3653	0.2000	50.3	50.0	0.6	20.0
1,3-Dichloropropane	Ave	0.5464	0.5330		48.8	50.0	-2.4	20.0
2-Hexanone	Ave	0.4265	0.4354	0.1000	102	100	2.1	20.0
Dibromochloromethane	Ave	0.3377	0.3428		50.8	50.0	1.5	20.0
1,2-Dibromoethane (EDB)	Ave	0.3596	0.3514	0.1000	48.9	50.0	-2.3	20.0
1-Chlorohexane	Ave	0.4739	0.4276		45.1	50.0	-9.8	20.0
Chlorobenzene	Ave	0.9913	0.9601	0.5000	48.4	50.0	-3.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3736	0.3855		51.6	50.0	3.2	20.0
Ethylbenzene	Ave	1.762	1.729	0.1000	49.1	50.0	-1.9	20.0
m&p-Xylene	Ave	0.6965	0.6739	0.1000	96.8	100	-3.2	20.0
o-Xylene	Ave	0.7282	0.7029	0.3000	48.3	50.0	-3.5	20.0
Styrene	Ave	1.113	1.069	0.3000	48.0	50.0	-4.0	20.0
Bromoform	Ave	0.2607	0.2613	0.1000	50.1	50.0	0.2	20.0
Isopropylbenzene	Ave	1.656	1.593	0.1000	48.1	50.0	-3.8	20.0
1,1,2,2-Tetrachloroethane	Ave	1.138	1.137	0.3000	50.0	50.0	-0.0	20.0
Bromobenzene	Ave	0.7774	0.7449		47.9	50.0	-4.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3004	0.2373		98.8	125	-21.0*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Lab Sample ID: CCVIS 410-561893/3

Calibration Date: 10/10/2024 22:25

Instrument ID: 9137

Calib Start Date: 09/30/2024 22:30

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Calib End Date: 10/01/2024 00:40

Lab File ID: WC10X52.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.3547	0.3492		49.2	50.0	-1.6	20.0
N-Propylbenzene	Ave	3.608	3.457		47.9	50.0	-4.2	20.0
2-Chlorotoluene	Ave	0.7923	0.7545		47.6	50.0	-4.8	20.0
1,3,5-Trimethylbenzene	Ave	2.673	2.522		47.2	50.0	-5.6	20.0
4-Chlorotoluene	Ave	0.7556	0.7349		48.6	50.0	-2.7	20.0
tert-Butylbenzene	Ave	0.5031	0.4707		46.8	50.0	-6.4	20.0
1,2,4-Trimethylbenzene	Ave	2.770	2.636		47.6	50.0	-4.8	20.0
sec-Butylbenzene	Ave	3.231	3.041		47.1	50.0	-5.9	20.0
1,3-Dichlorobenzene	Ave	1.449	1.391	0.6000	48.0	50.0	-4.0	20.0
p-Isopropyltoluene	Ave	2.854	2.678		46.9	50.0	-6.2	20.0
1,4-Dichlorobenzene	Ave	1.485	1.424	0.5000	47.9	50.0	-4.1	20.0
1,2,3-Trimethylbenzene	Ave	2.981	2.856		47.9	50.0	-4.2	20.0
Benzyl chloride	Ave	2.219	2.052		46.2	50.0	-7.5	20.0
1,3-Diethylbenzene	Ave	1.659	1.537		46.3	50.0	-7.4	20.0
1,4-Diethylbenzene	Ave	1.742	1.610		46.2	50.0	-7.6	20.0
n-Butylbenzene	Ave	1.346	1.273		47.3	50.0	-5.5	20.0
1,2-Dichlorobenzene	Ave	1.546	1.506	0.4000	48.7	50.0	-2.6	20.0
1,2-Diethylbenzene	Ave	1.410	1.326		47.0	50.0	-6.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.3391	0.3336	0.0500	49.2	50.0	-1.6	20.0
1,3,5-Trichlorobenzene	Ave	1.086	1.035		47.7	50.0	-4.7	20.0
1,2,4-Trichlorobenzene	Ave	1.103	1.032	0.2000	46.8	50.0	-6.4	20.0
Hexachlorobutadiene	Ave	0.3626	0.3434		47.4	50.0	-5.3	20.0
Naphthalene	Ave	4.690	4.558		48.6	50.0	-2.8	20.0
1,2,3-Trichlorobenzene	Ave	1.142	1.107		48.5	50.0	-3.1	20.0
2-Methylnaphthalene	Ave	2.256	2.197		48.7	50.0	-2.7	20.0
Dibromofluoromethane (Surr)	Ave	0.2402	0.2571		53.5	50.0	7.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0627	0.0620		49.5	50.0	-1.0	20.0
Toluene-d8 (Surr)	Ave	1.320	1.318		49.9	50.0	-0.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4963	0.4872		49.1	50.0	-1.8	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X52.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 10-Oct-2024 22:25:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127401-003
 Misc. Info.: CCVIS
 Operator ID: KEL87800 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub31
 Method: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 11-Oct-2024 13:50:33 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1645

First Level Reviewer: FQ4L

Date: 11-Oct-2024 13:50:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.014	2.014	0.000	99	607111	50.0	50.9	
7 Chloromethane	50	2.213	2.213	0.000	99	563972	50.0	49.1	
8 Vinyl chloride	62	2.332	2.332	0.000	99	562442	50.0	49.5	
9 Butadiene	39	2.358	2.358	0.000	93	673019	50.0	58.3	
11 Bromomethane	94	2.695	2.695	0.000	90	401344	50.0	49.5	
12 Chloroethane	64	2.781	2.781	0.000	100	300844	50.0	52.8	
13 Dichlorofluoromethane	67	3.047	3.047	0.000	98	890347	50.0	52.0	
14 Trichlorofluoromethane	101	3.108	3.108	0.000	97	706873	50.0	51.6	M
15 Pentane	43	3.150	3.150	0.000	98	465019	50.0	48.1	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.455	3.455	0.000	94	428427	50.0	51.6	
19 Acrolein	56	3.545	3.545	0.000	100	1152013	501.1	699.5	
21 1,1-Dichloroethene	96	3.699	3.699	0.000	99	283177	50.0	51.3	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.715	3.715	0.000	94	349070	50.0	51.5	
20 Acetone	58	3.731	3.731	0.000	82	120583	100.0	122.1	
25 Iodomethane	142	3.901	3.901	0.000	97	569898	50.0	51.1	
23 Isopropyl alcohol	45	3.914	3.914	0.000	34	152201	250.0	150.4	
26 Carbon disulfide	76	4.020	4.020	0.000	99	983883	50.0	51.1	
28 Methyl acetate	43	4.155	4.155	0.000	96	350318	50.0	49.4	M
27 3-Chloro-1-propene	41	4.183	4.183	0.000	92	403360	50.0	50.1	
30 Methylene Chloride	84	4.389	4.389	0.000	95	319779	50.0	50.1	
* 32 t-Butyl alcohol-d10 (IS)	65	4.408	4.408	0.000	40	324021	250.0	250.0	
33 2-Methyl-2-propanol	59	4.533	4.533	0.000	97	296765	250.0	207.0	
34 Acrylonitrile	53	4.739	4.739	0.000	100	495093	125.0	132.1	
36 Methyl tert-butyl ether	73	4.793	4.793	0.000	89	915848	50.0	46.9	
35 trans-1,2-Dichloroethene	96	4.796	4.796	0.000	99	274706	50.0	52.1	
37 Hexane	57	5.226	5.226	0.000	91	325795	50.0	48.8	
38 1,1-Dichloroethane	63	5.470	5.470	0.000	97	476350	50.0	53.1	
40 Isopropyl ether	45	5.525	5.525	0.000	95	871347	50.0	49.7	
41 2-Chloro-1,3-butadiene	53	5.579	5.579	0.000	90	417018	50.0	51.4	
42 Tert-butyl ethyl ether	59	6.067	6.067	0.000	97	867521	50.0	46.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	6.279	6.279	0.000	100	503904	100.0	100.0	
43 cis-1,2-Dichloroethene	96	6.301	6.301	0.000	84	310074	50.0	51.4	
45 2,2-Dichloropropane	77	6.330	6.330	0.000	88	463818	50.0	47.5	
47 Propionitrile	54	6.378	6.378	0.000	98	433808	250.0	268.8	
49 Methacrylonitrile	67	6.584	6.584	0.000	91	464981	125.0	126.3	
50 Chlorobromomethane	128	6.632	6.632	0.000	95	164431	50.0	52.4	
51 Tetrahydrofuran	71	6.648	6.648	0.000	89	366329	250.0	260.1	
52 Chloroform	83	6.786	6.786	0.000	94	465192	50.0	52.5	
\$ 54 Dibromofluoromethane (Surr)	113	6.998	6.998	0.000	93	272089	50.0	53.5	
55 1,1,1-Trichloroethane	97	7.014	7.014	0.000	99	472998	50.0	50.3	
56 Cyclohexane	56	7.107	7.107	0.000	90	545425	50.0	48.8	
58 Carbon tetrachloride	117	7.216	7.216	0.000	91	405853	50.0	51.7	
57 1,1-Dichloropropene	75	7.229	7.229	0.000	96	399382	50.0	51.2	
59 Isobutyl alcohol	41	7.392	7.392	0.000	96	285754	625.0	597.8	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.457	7.457	0.000	73	65622	50.0	49.5	
61 Benzene	78	7.489	7.489	0.000	97	1122999	50.0	50.3	
62 1,2-Dichloroethane	62	7.562	7.562	0.000	97	358383	50.0	50.8	
64 Tert-amyl methyl ether	73	7.678	7.678	0.000	99	859973	50.0	47.1	
* 65 Fluorobenzene (IS)	96	7.890	7.890	0.000	99	1058108	50.0	50.0	
66 n-Heptane	43	7.903	7.903	0.000	90	288452	50.0	48.4	
67 n-Butanol	56	8.262	8.262	0.000	88	207672	625.0	583.7	
68 Trichloroethene	95	8.365	8.365	0.000	97	279261	50.0	47.1	
70 Methylcyclohexane	83	8.673	8.673	0.000	90	480127	50.0	46.6	
72 2-ethoxy-2-methyl butane	87	8.702	8.702	0.000	93	403523	50.0	46.4	
71 1,2-Dichloropropane	63	8.708	8.708	0.000	76	288181	50.0	50.9	
74 Methyl methacrylate	69	8.785	8.785	0.000	93	249668	50.0	46.1	
75 1,4-Dioxane	88	8.795	8.795	0.000	60	61576	625.0	607.6	
73 Dibromomethane	93	8.820	8.820	0.000	97	195673	50.0	51.2	
77 Dichlorobromomethane	83	9.048	9.048	0.000	100	333584	50.0	51.2	
78 2-Nitropropane	41	9.324	9.324	0.000	97	581604	250.0	253.5	
79 2-Chloroethyl vinyl ether	63	9.404	9.404	0.000	92	207544	50.0	52.0	
81 cis-1,3-Dichloropropene	75	9.584	9.584	0.000	97	408019	50.0	46.9	
83 4-Methyl-2-pentanone (MIBK)	43	9.757	9.757	0.000	97	1051185	100.0	109.1	
\$ 84 Toluene-d8 (Surr)	98	9.886	9.886	0.000	93	1062391	50.0	49.9	
85 Toluene	92	9.959	9.959	0.000	98	678778	50.0	48.0	
86 trans-1,3-Dichloropropene	75	10.213	10.213	0.000	92	365251	50.0	46.1	
87 Ethyl methacrylate	69	10.271	10.271	0.000	90	448379	50.0	47.2	
88 1,1,2-Trichloroethane	97	10.412	10.412	0.000	91	259733	50.0	48.5	
90 Tetrachloroethene	166	10.499	10.499	0.000	98	294462	50.0	50.3	
91 1,3-Dichloropropane	76	10.576	10.576	0.000	89	429623	50.0	48.8	
94 2-Hexanone	43	10.627	10.627	0.000	96	701938	100.0	102.1	
96 Chlorodibromomethane	129	10.784	10.784	0.000	90	276330	50.0	50.8	
98 Ethylene Dibromide	107	10.896	10.896	0.000	100	283287	50.0	48.9	
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.323	0.000	84	806057	50.0	50.0	
103 1-Chlorohexane	91	11.330	11.330	0.000	97	344696	50.0	45.1	
102 Chlorobenzene	112	11.349	11.349	0.000	96	773863	50.0	48.4	
104 1,1,1,2-Tetrachloroethane	131	11.432	11.432	0.000	96	310731	50.0	51.6	
105 Ethylbenzene	91	11.432	11.432	0.000	98	1393350	50.0	49.1	
106 m-Xylene & p-Xylene	106	11.548	11.548	0.000	98	1086365	100.0	96.8	
108 o-Xylene	106	11.875	11.875	0.000	96	566574	50.0	48.3	
109 Styrene	104	11.888	11.888	0.000	94	861298	50.0	48.0	
110 Bromoform	173	12.048	12.048	0.000	97	210625	50.0	50.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
111 Isopropylbenzene	105	12.170	12.170	0.000	95	1283725	50.0	48.1	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.312	12.312	0.000	90	392749	50.0	49.1	
116 1,1,2,2-Tetrachloroethane	83	12.418	12.418	0.000	96	525963	50.0	50.0	
115 Bromobenzene	156	12.434	12.434	0.000	97	344445	50.0	47.9	
119 trans-1,4-Dichloro-2-butene	53	12.443	12.443	0.000	86	274339	125.0	98.8	
118 1,2,3-Trichloropropane	110	12.466	12.466	0.000	86	161460	50.0	49.2	
120 N-Propylbenzene	91	12.501	12.501	0.000	99	1598463	50.0	47.9	
121 2-Chlorotoluene	126	12.578	12.578	0.000	97	348885	50.0	47.6	
122 1,3,5-Trimethylbenzene	105	12.633	12.633	0.000	94	1166331	50.0	47.2	
123 4-Chlorotoluene	126	12.668	12.668	0.000	97	339801	50.0	48.6	
125 tert-Butylbenzene	134	12.876	12.876	0.000	93	217668	50.0	46.8	
127 1,2,4-Trimethylbenzene	105	12.918	12.918	0.000	97	1218715	50.0	47.6	
128 sec-Butylbenzene	105	13.040	13.040	0.000	94	1405979	50.0	47.1	
131 1,3-Dichlorobenzene	146	13.136	13.136	0.000	98	643174	50.0	48.0	
132 4-Isopropyltoluene	119	13.146	13.146	0.000	97	1238285	50.0	46.9	
* 133 1,4-Dichlorobenzene-d4	152	13.191	13.191	0.000	95	462393	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.213	13.213	0.000	95	658378	50.0	47.9	
148 1,2,3-Trimethylbenzene	105	13.223	13.223	0.000	98	1320372	50.0	47.9	
170 Benzyl chloride	91	13.290	13.290	0.000	98	948613	50.0	46.2	
171 1,3-Diethylbenzene	119	13.345	13.345	0.000	95	710748	50.0	46.3	
172 p-Diethylbenzene	119	13.415	13.415	0.000	94	744333	50.0	46.2	
173 n-Butylbenzene	92	13.435	13.435	0.000	97	588477	50.0	47.3	
174 1,2-Dichlorobenzene	146	13.473	13.473	0.000	99	696555	50.0	48.7	
175 o-diethylbenzene	119	13.489	13.489	0.000	94	613023	50.0	47.0	
176 1,2-Dibromo-3-Chloropropane	75	14.016	14.016	0.000	87	154244	50.0	49.2	
177 1,3,5-Trichlorobenzene	180	14.137	14.137	0.000	98	478703	50.0	47.7	
179 1,2,4-Trichlorobenzene	180	14.564	14.564	0.000	94	477383	50.0	46.8	
180 Hexachlorobutadiene	225	14.644	14.644	0.000	96	158792	50.0	47.4	
182 Naphthalene	128	14.747	14.747	0.000	97	2107508	50.0	48.6	
183 1,2,3-Trichlorobenzene	180	14.892	14.892	0.000	96	512058	50.0	48.5	
184 2-Methylnaphthalene	142	15.533	15.533	0.000	91	1015655	50.0	48.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_2CEVE_00196

Amount Added: 5.00

Units: uL

MSV_CCV_VOC#1_00204

Amount Added: 5.00

Units: uL

MSV_CCV_VOC#3_00201

Amount Added: 4.00

Units: uL

MSV_CCV_GASES_00869

Amount Added: 2.50

Units: uL

MSV_Cent_ISSS_00030

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 11-Oct-2024 13:50:34

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X52.D

Injection Date: 10-Oct-2024 22:25:30

Instrument ID: 9137

Operator ID: KEL87800

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

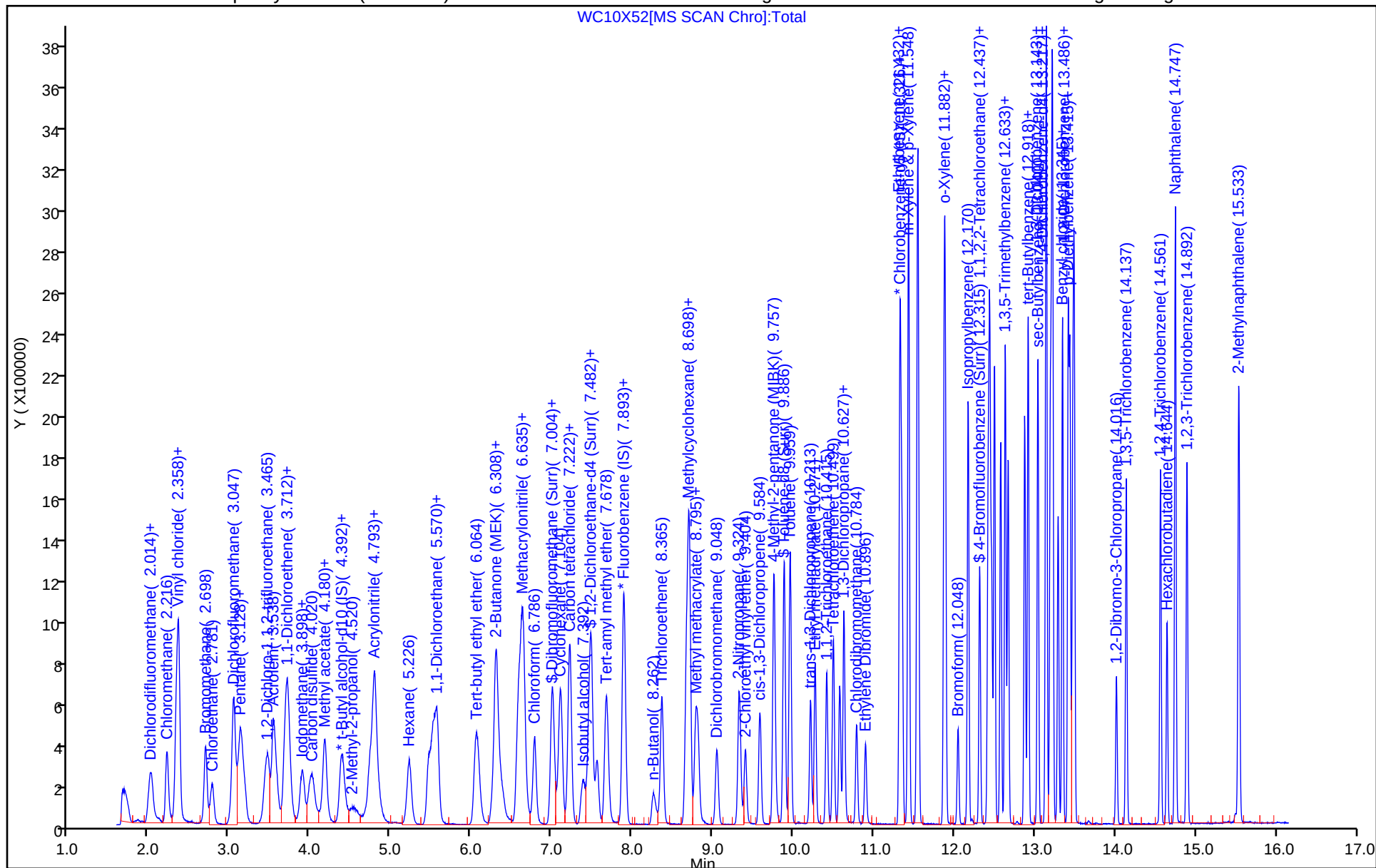
ALS Bottle#: 2

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC

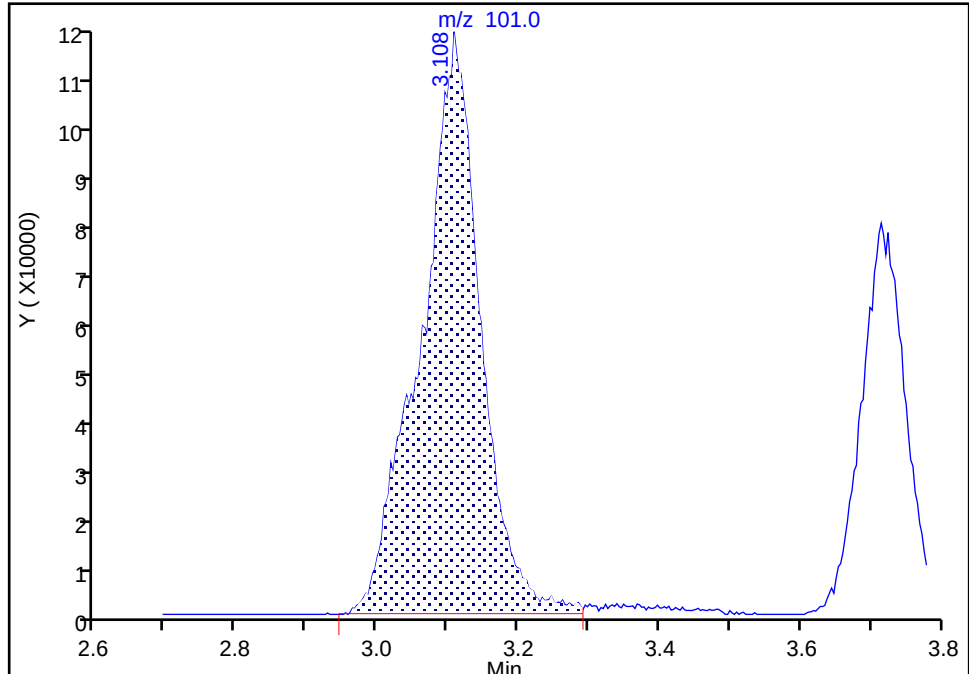
Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X52.D
Injection Date: 10-Oct-2024 22:25:30 Instrument ID: 9137
Lims ID: CCVIS
Client ID:
Operator ID: KEL87800 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

14 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

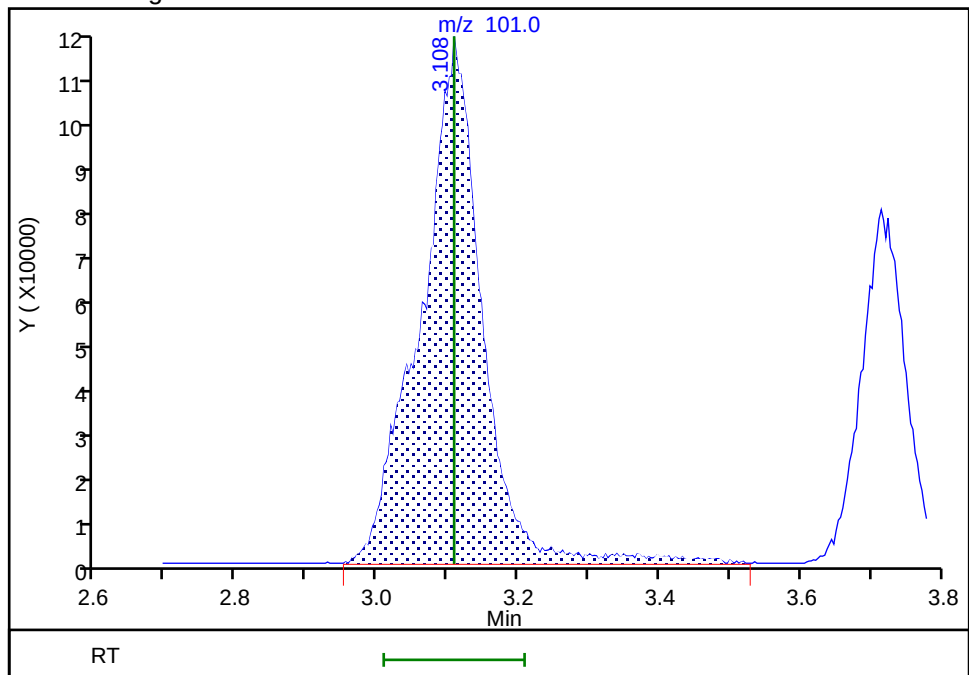
RT: 3.11
Area: 690740
Amount: 50.450310
Amount Units: ug/l

Processing Integration Results



RT: 3.11
Area: 706873
Amount: 51.628633
Amount Units: ug/l

Manual Integration Results



Reviewer: S8BP, 10-Oct-2024 22:49:23 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

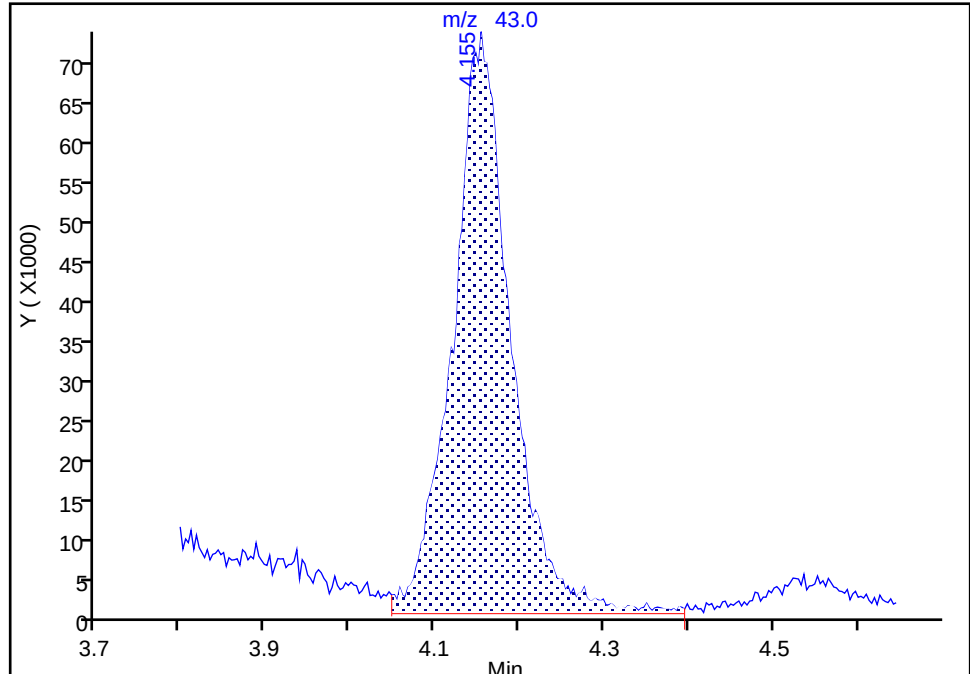
Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X52.D
Injection Date: 10-Oct-2024 22:25:30 Instrument ID: 9137
Lims ID: CCVIS
Client ID:
Operator ID: KEL87800 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

28 Methyl acetate, CAS: 79-20-9

Signal: 1

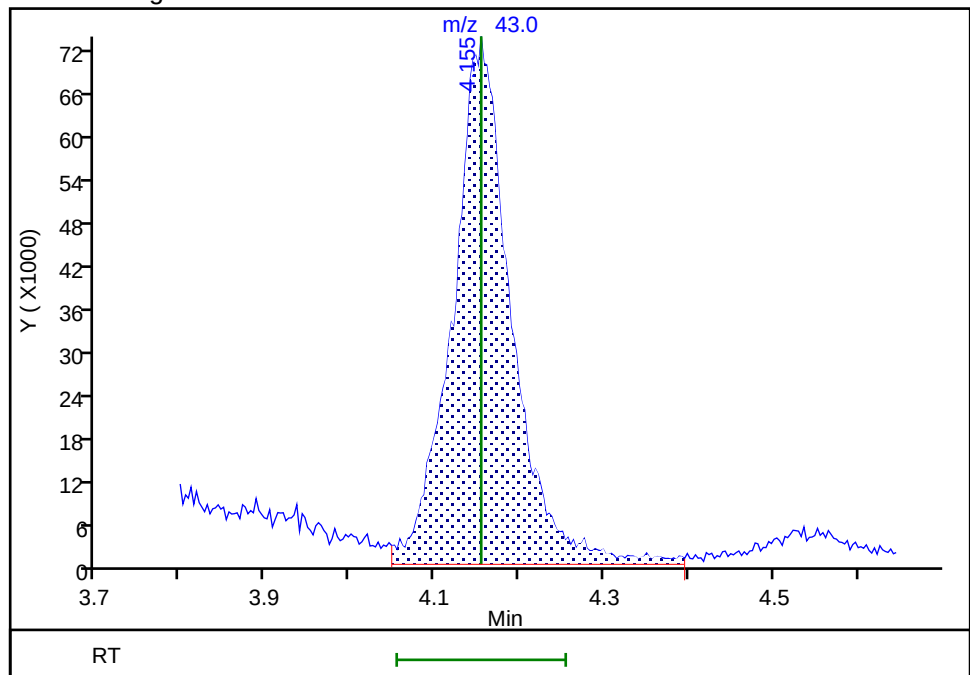
RT: 4.15
Area: 347359
Amount: 48.937938
Amount Units: ug/l

Processing Integration Results



RT: 4.15
Area: 350318
Amount: 49.354819
Amount Units: ug/l

Manual Integration Results



Reviewer: S8BP, 10-Oct-2024 22:49:47 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Baseline

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Lab Sample ID: CCVIS 410-562572/3

Calibration Date: 10/13/2024 19:58

Instrument ID: 9137

Calib Start Date: 09/30/2024 22:30

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Calib End Date: 10/01/2024 00:40

Lab File ID: WC13X02.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.5639	0.3597	0.1000	31.9	50.0	-36.2*	20.0
Chloromethane	Ave	0.5425	0.4279	0.1000	39.4	50.0	-21.1*	20.0
Vinyl chloride	Ave	0.5372	0.4362	0.1000	40.6	50.0	-18.8	20.0
1,3-Butadiene	Ave	0.5451	0.5502		50.5	50.0	0.9	20.0
Bromomethane	Ave	0.3829	0.3185	0.1000	41.6	50.0	-16.8	20.0
Chloroethane	Ave	0.2694	0.2432	0.1000	45.1	50.0	-9.7	20.0
Dichlorofluoromethane	Ave	0.8093	0.7285		45.0	50.0	-10.0	20.0
Trichlorofluoromethane	Ave	0.6470	0.5438	0.1000	42.0	50.0	-15.9	20.0
n-Pentane	Ave	0.4570	0.4103		44.9	50.0	-10.2	20.0
Freon 123a	Ave	0.3924	0.3567		45.5	50.0	-9.1	20.0
Acrolein	Ave	1.271	1.414		558	501	11.3	20.0
1,1-Dichloroethene	Ave	0.2611	0.2444	0.1000	46.8	50.0	-6.4	20.0
Freon 113	Ave	0.3206	0.2903	0.1000	45.3	50.0	-9.4	20.0
Acetone	Ave	0.7621	0.8979	0.1000	118	100	17.8	20.0
Methyl iodide	Ave	0.5273	0.4985		47.3	50.0	-5.5	20.0
2-Propanol	Ave	0.7807	0.4067		130	250	-47.9*	20.0
Carbon disulfide	Ave	0.9092	0.8450	0.1000	46.5	50.0	-7.1	20.0
Methyl acetate	Ave	0.3354	0.3119	0.1000	46.5	50.0	-7.0	20.0
Allyl chloride	Ave	0.3801	0.3594		47.3	50.0	-5.4	20.0
Methylene Chloride	Ave	0.3015	0.2792	0.1000	46.3	50.0	-7.4	20.0
t-Butyl alcohol	Ave	1.106	1.119		253	250	1.2	20.0
Acrylonitrile	Ave	0.1771	0.1767		125	125	-0.2	20.0
trans-1,2-Dichloroethene	Ave	0.2491	0.2343	0.1000	47.0	50.0	-6.0	20.0
Methyl tert-butyl ether	Ave	0.9237	0.8378	0.1000	45.4	50.0	-9.3	20.0
n-Hexane	Ave	0.3155	0.2999		47.5	50.0	-4.9	20.0
1,1-Dichloroethane	Ave	0.4242	0.4058	0.2000	47.8	50.0	-4.3	20.0
Isopropyl ether	Ave	0.8279	0.7862		47.5	50.0	-5.0	20.0
2-Chloro-1,3-butadiene	Ave	0.3835	0.3639		47.4	50.0	-5.1	20.0
Ethyl t-butyl ether	Ave	0.8793	0.7958		45.2	50.0	-9.5	20.0
2-Butanone (MEK)	Ave	0.2380	0.2240	0.1000	94.1	100	-5.9	20.0
cis-1,2-Dichloroethene	Ave	0.2848	0.2710	0.1000	47.6	50.0	-4.8	20.0
2,2-Dichloropropane	Ave	0.4615	0.4137		44.8	50.0	-10.4	20.0
Propionitrile	Ave	1.245	1.298		261	250	4.2	20.0
Methacrylonitrile	Ave	0.1740	0.1607		115	125	-7.6	20.0
Bromochloromethane	Ave	0.1484	0.1410		47.5	50.0	-5.0	20.0
Tetrahydrofuran	Ave	1.086	1.085		250	250	-0.1	20.0
Chloroform	Ave	0.4184	0.4088	0.2000	48.9	50.0	-2.3	20.0
1,1,1-Trichloroethane	Ave	0.4440	0.4120	0.1000	46.4	50.0	-7.2	20.0
Cyclohexane	Ave	0.5279	0.4772	0.1000	45.2	50.0	-9.6	20.0
Carbon tetrachloride	Ave	0.3707	0.3571	0.1000	48.2	50.0	-3.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Lab Sample ID: CCVIS 410-562572/3

Calibration Date: 10/13/2024 19:58

Instrument ID: 9137

Calib Start Date: 09/30/2024 22:30

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Calib End Date: 10/01/2024 00:40

Lab File ID: WC13X02.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1-Dichloropropene	Ave	0.3685	0.3410		46.3	50.0	-7.5	20.0
Isobutyl alcohol	Ave	0.3688	0.3267		554	625	-11.4	20.0
Benzene	Ave	1.055	0.9685	0.5000	45.9	50.0	-8.2	20.0
1,2-Dichloroethane	Ave	0.3332	0.3083	0.1000	46.3	50.0	-7.5	20.0
t-Amyl methyl ether	Ave	0.8623	0.7744		44.9	50.0	-10.2	20.0
n-Heptane	Ave	0.2813	0.2513		44.7	50.0	-10.7	20.0
n-Butanol	Ave	0.2745	0.2511		572	625	-8.5	20.0
Trichloroethene	Ave	0.2801	0.2419	0.2000	43.2	50.0	-13.7	20.0
Methylcyclohexane	Ave	0.4871	0.4386	0.1000	45.0	50.0	-10.0	20.0
1,2-Dichloropropane	Ave	0.2673	0.2484	0.1000	46.4	50.0	-7.1	20.0
t-Amyl ethyl ether	Ave	0.4109	0.3647		44.4	50.0	-11.3	20.0
Methyl methacrylate	Ave	0.2559	0.2261		44.2	50.0	-11.6	20.0
1,4-Dioxane	Ave	0.0782	0.0720	0.0050	576	625	-7.9	20.0
Dibromomethane	Ave	0.1806	0.1652		45.7	50.0	-8.5	20.0
Bromodichloromethane	Ave	0.3079	0.2904	0.2000	47.2	50.0	-5.7	20.0
2-Nitropropane	Ave	1.770	1.753		248	250	-0.9	20.0
2-Chloroethyl vinyl ether	Ave	0.1887	0.1780		47.2	50.0	-5.7	20.0
cis-1,3-Dichloropropene	Ave	0.4109	0.3560	0.2000	43.3	50.0	-13.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4552	0.4597	0.1000	101	100	1.0	20.0
Toluene	Ave	0.8767	0.8024	0.4000	45.8	50.0	-8.5	20.0
trans-1,3-Dichloropropene	Ave	0.4913	0.4379	0.1000	44.6	50.0	-10.9	20.0
Ethyl methacrylate	Ave	0.5888	0.5372		45.6	50.0	-8.8	20.0
1,1,2-Trichloroethane	Ave	0.3325	0.3004	0.1000	45.2	50.0	-9.7	20.0
Tetrachloroethene	Ave	0.3632	0.3384	0.2000	46.6	50.0	-6.8	20.0
1,3-Dichloropropane	Ave	0.5464	0.5005		45.8	50.0	-8.4	20.0
2-Hexanone	Ave	0.4265	0.4165	0.1000	97.7	100	-2.3	20.0
Dibromochloromethane	Ave	0.3377	0.3270		48.4	50.0	-3.2	20.0
1,2-Dibromoethane (EDB)	Ave	0.3596	0.3333	0.1000	46.4	50.0	-7.3	20.0
1-Chlorohexane	Ave	0.4739	0.4219		44.5	50.0	-11.0	20.0
Chlorobenzene	Ave	0.9913	0.9046	0.5000	45.6	50.0	-8.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3736	0.3688		49.4	50.0	-1.3	20.0
Ethylbenzene	Ave	1.762	1.645	0.1000	46.7	50.0	-6.6	20.0
m&p-Xylene	Ave	0.6965	0.6497	0.1000	93.3	100	-6.7	20.0
o-Xylene	Ave	0.7282	0.6868	0.3000	47.2	50.0	-5.7	20.0
Styrene	Ave	1.113	1.016	0.3000	45.6	50.0	-8.7	20.0
Bromoform	Ave	0.2607	0.2531	0.1000	48.5	50.0	-2.9	20.0
Isopropylbenzene	Ave	1.656	1.577	0.1000	47.6	50.0	-4.8	20.0
1,1,2,2-Tetrachloroethane	Ave	1.138	1.097	0.3000	48.2	50.0	-3.6	20.0
Bromobenzene	Ave	0.7774	0.7177		46.2	50.0	-7.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3004	0.1612		67.1	125	-46.3*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Lab Sample ID: CCVIS 410-562572/3

Calibration Date: 10/13/2024 19:58

Instrument ID: 9137

Calib Start Date: 09/30/2024 22:30

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Calib End Date: 10/01/2024 00:40

Lab File ID: WC13X02.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.3547	0.3394		47.8	50.0	-4.3	20.0
N-Propylbenzene	Ave	3.608	3.434		47.6	50.0	-4.8	20.0
2-Chlorotoluene	Ave	0.7923	0.7469		47.1	50.0	-5.7	20.0
1,3,5-Trimethylbenzene	Ave	2.673	2.542		47.5	50.0	-4.9	20.0
4-Chlorotoluene	Ave	0.7556	0.7088		46.9	50.0	-6.2	20.0
tert-Butylbenzene	Ave	0.5031	0.4753		47.2	50.0	-5.5	20.0
1,2,4-Trimethylbenzene	Ave	2.770	2.656		47.9	50.0	-4.1	20.0
sec-Butylbenzene	Ave	3.231	3.101		48.0	50.0	-4.0	20.0
1,3-Dichlorobenzene	Ave	1.449	1.334	0.6000	46.0	50.0	-8.0	20.0
p-Isopropyltoluene	Ave	2.854	2.725		47.7	50.0	-4.5	20.0
1,4-Dichlorobenzene	Ave	1.485	1.364	0.5000	45.9	50.0	-8.1	20.0
1,2,3-Trimethylbenzene	Ave	2.981	2.820		47.3	50.0	-5.4	20.0
Benzyl chloride	Ave	2.219	2.116		47.7	50.0	-4.6	20.0
1,3-Diethylbenzene	Ave	1.659	1.567		47.2	50.0	-5.6	20.0
1,4-Diethylbenzene	Ave	1.742	1.639		47.1	50.0	-5.9	20.0
n-Butylbenzene	Ave	1.346	1.284		47.7	50.0	-4.6	20.0
1,2-Dichlorobenzene	Ave	1.546	1.456	0.4000	47.1	50.0	-5.8	20.0
1,2-Diethylbenzene	Ave	1.410	1.338		47.4	50.0	-5.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.3391	0.3283	0.0500	48.4	50.0	-3.2	20.0
1,3,5-Trichlorobenzene	Ave	1.086	1.022		47.1	50.0	-5.9	20.0
1,2,4-Trichlorobenzene	Ave	1.103	1.020	0.2000	46.2	50.0	-7.5	20.0
Hexachlorobutadiene	Ave	0.3626	0.3243		44.7	50.0	-10.5	20.0
Naphthalene	Ave	4.690	4.444		47.4	50.0	-5.3	20.0
1,2,3-Trichlorobenzene	Ave	1.142	1.075		47.1	50.0	-5.9	20.0
2-Methylnaphthalene	Ave	2.256	2.177		48.2	50.0	-3.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2402	0.2561		53.3	50.0	6.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0627	0.0632		50.5	50.0	0.9	20.0
Toluene-d8 (Surr)	Ave	1.320	1.360		51.5	50.0	3.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4963	0.4925		49.6	50.0	-0.8	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X02.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 13-Oct-2024 19:58:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127582-003
 Misc. Info.: CCVIS
 Operator ID: gaw91131 Instrument ID: 9137
 Sublist: chrom-MSVoa_9137*sub31
 Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 13-Oct-2024 23:14:05 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1675

First Level Reviewer: JS6E

Date: 13-Oct-2024 20:28:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.011	2.011	0.000	99	455920	50.0	31.9	
7 Chloromethane	50	2.219	2.219	0.000	100	542355	50.0	39.4	
8 Vinyl chloride	62	2.335	2.335	0.000	99	552944	50.0	40.6	
9 Butadiene	39	2.361	2.361	0.000	91	697401	50.0	50.5	
11 Bromomethane	94	2.694	2.694	0.000	91	403755	50.0	41.6	
12 Chloroethane	64	2.781	2.781	0.000	100	308287	50.0	45.1	
13 Dichlorofluoromethane	67	3.047	3.047	0.000	98	923475	50.0	45.0	
14 Trichlorofluoromethane	101	3.111	3.111	0.000	97	689333	50.0	42.0	
15 Pentane	43	3.147	3.147	0.000	98	520105	50.0	44.9	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.464	3.464	0.000	94	452182	50.0	45.5	
19 Acrolein	56	3.541	3.541	0.000	100	1062338	501.1	557.6	
21 1,1-Dichloroethene	96	3.696	3.696	0.000	99	309791	50.0	46.8	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.721	3.721	0.000	93	368003	50.0	45.3	
20 Acetone	58	3.724	3.724	0.000	87	134628	100.0	117.8	
25 Iodomethane	142	3.904	3.904	0.000	98	631940	50.0	47.3	
23 Isopropyl alcohol	45	3.920	3.920	0.000	38	152459	250.0	130.3	
26 Carbon disulfide	76	4.020	4.020	0.000	99	1071041	50.0	46.5	
28 Methyl acetate	43	4.158	4.158	0.000	99	395305	50.0	46.5	
27 3-Chloro-1-propene	41	4.180	4.180	0.000	97	455573	50.0	47.3	
30 Methylene Chloride	84	4.382	4.382	0.000	91	353918	50.0	46.3	
* 32 t-Butyl alcohol-d10 (IS)	65	4.389	4.389	0.000	39	374841	250.0	250.0	
33 2-Methyl-2-propanol	59	4.536	4.536	0.000	96	419503	250.0	252.9	
34 Acrylonitrile	53	4.742	4.742	0.000	99	559998	125.0	124.8	
35 trans-1,2-Dichloroethene	96	4.793	4.793	0.000	99	296943	50.0	47.0	
36 Methyl tert-butyl ether	73	4.799	4.799	0.000	89	1061976	50.0	45.4	
37 Hexane	57	5.229	5.229	0.000	94	380161	50.0	47.5	
38 1,1-Dichloroethane	63	5.467	5.467	0.000	96	514379	50.0	47.8	
40 Isopropyl ether	45	5.528	5.528	0.000	95	996615	50.0	47.5	
41 2-Chloro-1,3-butadiene	53	5.579	5.579	0.000	90	461271	50.0	47.4	
42 Tert-butyl ethyl ether	59	6.060	6.060	0.000	98	1008675	50.0	45.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	6.285	6.285	0.000	98	567845	100.0	94.1	
43 cis-1,2-Dichloroethene	96	6.304	6.304	0.000	83	343514	50.0	47.6	
45 2,2-Dichloropropane	77	6.320	6.320	0.000	87	524356	50.0	44.8	
47 Propionitrile	54	6.381	6.381	0.000	99	486478	250.0	260.6	
49 Methacrylonitrile	67	6.596	6.596	0.000	92	509131	125.0	115.5	
50 Chlorobromomethane	128	6.638	6.638	0.000	95	178758	50.0	47.5	
51 Tetrahydrofuran	71	6.654	6.654	0.000	89	406814	250.0	249.7	
52 Chloroform	83	6.786	6.786	0.000	94	518174	50.0	48.9	
\$ 54 Dibromofluoromethane (Surr)	113	7.001	7.001	0.000	93	324664	50.0	53.3	
55 1,1,1-Trichloroethane	97	7.020	7.020	0.000	98	522218	50.0	46.4	
56 Cyclohexane	56	7.107	7.107	0.000	90	604854	50.0	45.2	
58 Carbon tetrachloride	117	7.219	7.219	0.000	93	452620	50.0	48.2	
57 1,1-Dichloropropene	75	7.225	7.225	0.000	96	432281	50.0	46.3	
59 Isobutyl alcohol	41	7.389	7.389	0.000	94	306119	625.0	553.6	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.460	7.460	0.000	72	80146	50.0	50.5	
61 Benzene	78	7.488	7.488	0.000	97	1227602	50.0	45.9	
62 1,2-Dichloroethane	62	7.562	7.562	0.000	98	390785	50.0	46.3	
64 Tert-amyl methyl ether	73	7.675	7.675	0.000	99	981588	50.0	44.9	
* 65 Fluorobenzene (IS)	96	7.896	7.896	0.000	97	1267560	50.0	50.0	
66 n-Heptane	43	7.899	7.899	0.000	62	318483	50.0	44.7	
67 n-Butanol	56	8.265	8.265	0.000	88	235305	625.0	571.7	
68 Trichloroethene	95	8.371	8.371	0.000	97	306612	50.0	43.2	
70 Methylcyclohexane	83	8.676	8.676	0.000	90	555931	50.0	45.0	
71 1,2-Dichloropropane	63	8.708	8.708	0.000	70	314802	50.0	46.4	
72 2-ethoxy-2-methyl butane	87	8.711	8.711	0.000	92	462242	50.0	44.4	
74 Methyl methacrylate	69	8.785	8.785	0.000	92	286622	50.0	44.2	
75 1,4-Dioxane	88	8.798	8.798	0.000	35	67483	625.0	575.6	
73 Dibromomethane	93	8.820	8.820	0.000	98	209425	50.0	45.7	
77 Dichlorobromomethane	83	9.051	9.051	0.000	100	368104	50.0	47.2	
78 2-Nitropropane	41	9.330	9.330	0.000	96	657178	250.0	247.6	
79 2-Chloroethyl vinyl ether	63	9.407	9.407	0.000	93	225575	50.0	47.2	
81 cis-1,3-Dichloropropene	75	9.587	9.587	0.000	97	451194	50.0	43.3	
83 4-Methyl-2-pentanone (MIBK)	43	9.760	9.760	0.000	96	1165411	100.0	101.0	
\$ 84 Toluene-d8 (Surr)	98	9.886	9.886	0.000	93	1268416	50.0	51.5	
85 Toluene	92	9.963	9.963	0.000	98	748208	50.0	45.8	
86 trans-1,3-Dichloropropene	75	10.216	10.216	0.000	92	408357	50.0	44.6	
87 Ethyl methacrylate	69	10.274	10.274	0.000	90	500973	50.0	45.6	
88 1,1,2-Trichloroethane	97	10.418	10.418	0.000	90	280088	50.0	45.2	
90 Tetrachloroethene	166	10.498	10.498	0.000	98	315519	50.0	46.6	
91 1,3-Dichloropropane	76	10.579	10.579	0.000	89	466689	50.0	45.8	
94 2-Hexanone	43	10.630	10.630	0.000	96	776708	100.0	97.7	
96 Chlorodibromomethane	129	10.787	10.787	0.000	92	304967	50.0	48.4	
98 Ethylene Dibromide	107	10.900	10.900	0.000	99	310851	50.0	46.4	
* 101 Chlorobenzene-d5 (IS)	117	11.326	11.326	0.000	84	932517	50.0	50.0	
103 1-Chlorohexane	91	11.333	11.333	0.000	97	393435	50.0	44.5	
102 Chlorobenzene	112	11.352	11.352	0.000	96	843525	50.0	45.6	
104 1,1,1,2-Tetrachloroethane	131	11.432	11.432	0.000	97	343931	50.0	49.4	
105 Ethylbenzene	91	11.435	11.435	0.000	98	1534399	50.0	46.7	
106 m-Xylene & p-Xylene	106	11.548	11.548	0.000	98	1211708	100.0	93.3	
108 o-Xylene	106	11.875	11.875	0.000	96	640496	50.0	47.2	
109 Styrene	104	11.891	11.891	0.000	94	947442	50.0	45.6	
110 Bromoform	173	12.048	12.048	0.000	97	235979	50.0	48.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
111 Isopropylbenzene	105	12.173	12.173	0.000	95	1470389	50.0	47.6	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.318	12.318	0.000	89	459268	50.0	49.6	
116 1,1,2,2-Tetrachloroethane	83	12.421	12.421	0.000	95	570601	50.0	48.2	
115 Bromobenzene	156	12.437	12.437	0.000	95	373204	50.0	46.2	
119 trans-1,4-Dichloro-2-butene	53	12.443	12.443	0.000	89	209616	125.0	67.1	
118 1,2,3-Trichloropropane	110	12.469	12.469	0.000	86	176471	50.0	47.8	
120 N-Propylbenzene	91	12.501	12.501	0.000	98	1785410	50.0	47.6	
121 2-Chlorotoluene	126	12.578	12.578	0.000	97	388378	50.0	47.1	
122 1,3,5-Trimethylbenzene	105	12.636	12.636	0.000	95	1321566	50.0	47.5	
123 4-Chlorotoluene	126	12.671	12.671	0.000	97	368584	50.0	46.9	
125 tert-Butylbenzene	134	12.876	12.876	0.000	92	247126	50.0	47.2	
127 1,2,4-Trimethylbenzene	105	12.918	12.918	0.000	97	1381076	50.0	47.9	
128 sec-Butylbenzene	105	13.040	13.040	0.000	94	1612605	50.0	48.0	
131 1,3-Dichlorobenzene	146	13.139	13.139	0.000	98	693440	50.0	46.0	
132 4-Isopropyltoluene	119	13.146	13.146	0.000	97	1416928	50.0	47.7	
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.194	0.000	95	519983	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.213	13.213	0.000	95	709323	50.0	45.9	
148 1,2,3-Trimethylbenzene	105	13.223	13.223	0.000	98	1466299	50.0	47.3	
170 Benzyl chloride	91	13.290	13.290	0.000	98	1100471	50.0	47.7	
171 1,3-Diethylbenzene	119	13.345	13.345	0.000	95	814675	50.0	47.2	
172 p-Diethylbenzene	119	13.419	13.419	0.000	94	852395	50.0	47.1	
173 n-Butylbenzene	92	13.438	13.438	0.000	97	667506	50.0	47.7	
174 1,2-Dichlorobenzene	146	13.476	13.476	0.000	98	757204	50.0	47.1	
175 o-diethylbenzene	119	13.489	13.489	0.000	95	695905	50.0	47.4	
176 1,2-Dibromo-3-Chloropropane	75	14.015	14.015	0.000	87	170714	50.0	48.4	
177 1,3,5-Trichlorobenzene	180	14.141	14.141	0.000	98	531528	50.0	47.1	
179 1,2,4-Trichlorobenzene	180	14.564	14.564	0.000	95	530526	50.0	46.2	
180 Hexachlorobutadiene	225	14.644	14.644	0.000	98	168647	50.0	44.7	
182 Naphthalene	128	14.747	14.747	0.000	97	2310665	50.0	47.4	
183 1,2,3-Trichlorobenzene	180	14.895	14.895	0.000	96	559054	50.0	47.1	
184 2-Methylnaphthalene	142	15.536	15.536	0.000	92	1132045	50.0	48.2	

QC Flag Legend

Processing Flags

Reagents:

MSV_CCV_2CEVE_00196	Amount Added: 5.00	Units: uL	
MSV_CCV_VOC#1_00204	Amount Added: 5.00	Units: uL	
MSV_CCV_VOC#3_00201	Amount Added: 4.00	Units: uL	
MSV_CCV_GASES_00885	Amount Added: 2.50	Units: uL	
MSV_Cent_ISSS_00030	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 13-Oct-2024 23:14:06

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X02.D

Injection Date: 13-Oct-2024 19:58:30

Instrument ID: 9137

Operator ID: gaw91131

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

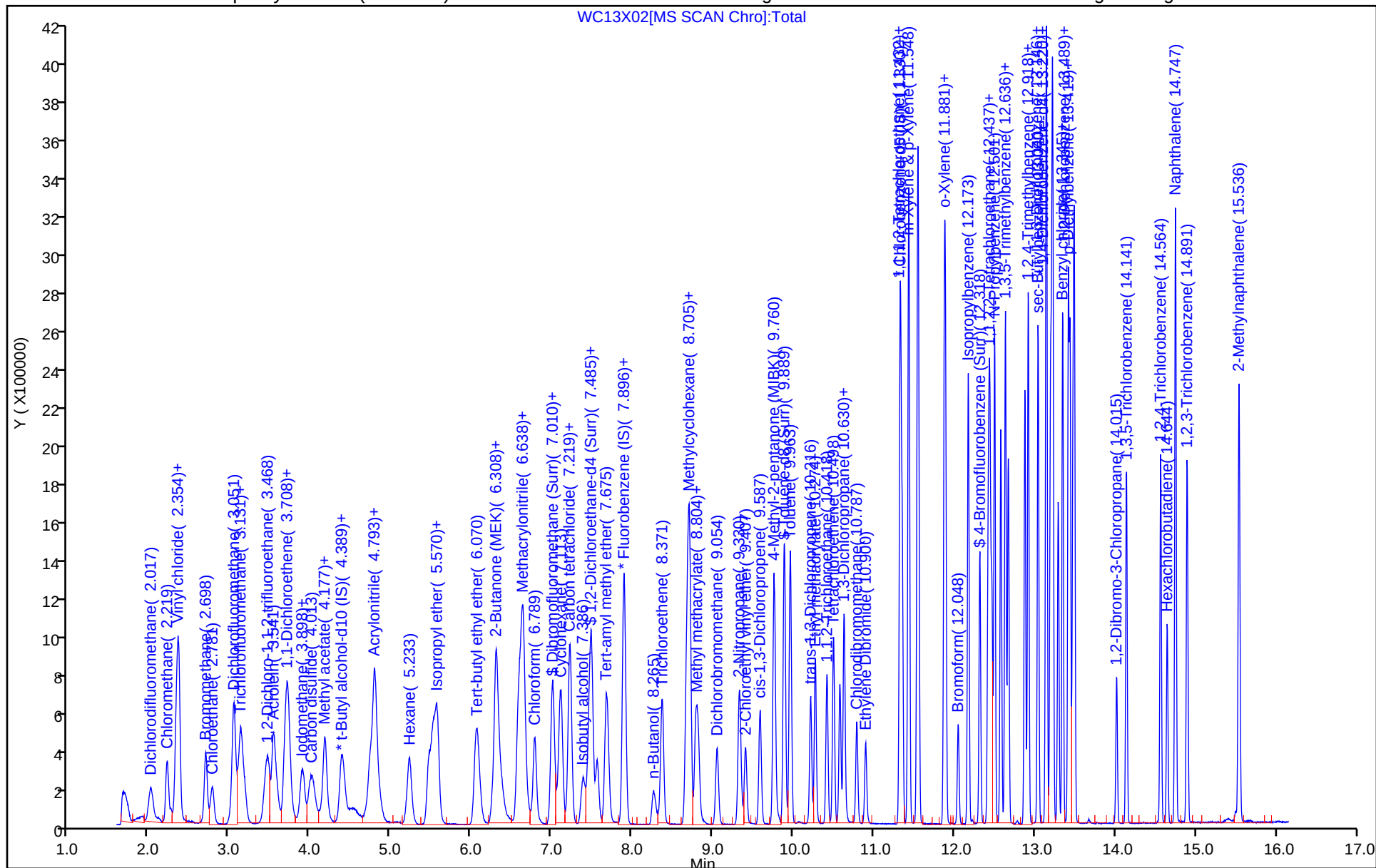
ALS Bottle#: 2

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30T04.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 30-Sep-2024 18:32:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0126367-001
Misc. Info.: bfb
Operator ID: MCD07824 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 01-Oct-2024 09:16:56 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1618

First Level Reviewer: Y6ZN

Date: 30-Sep-2024 18:49:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 53 BFB	95	4.152	4.152	0.000	0	437410	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

MSV_V_BFB_00017

Amount Added: 1.00

Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30T04.D

Injection Date: 30-Sep-2024 18:32:30

Instrument ID: 9137

Lims ID: bfb

Client ID:

Operator ID: MCD07824

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

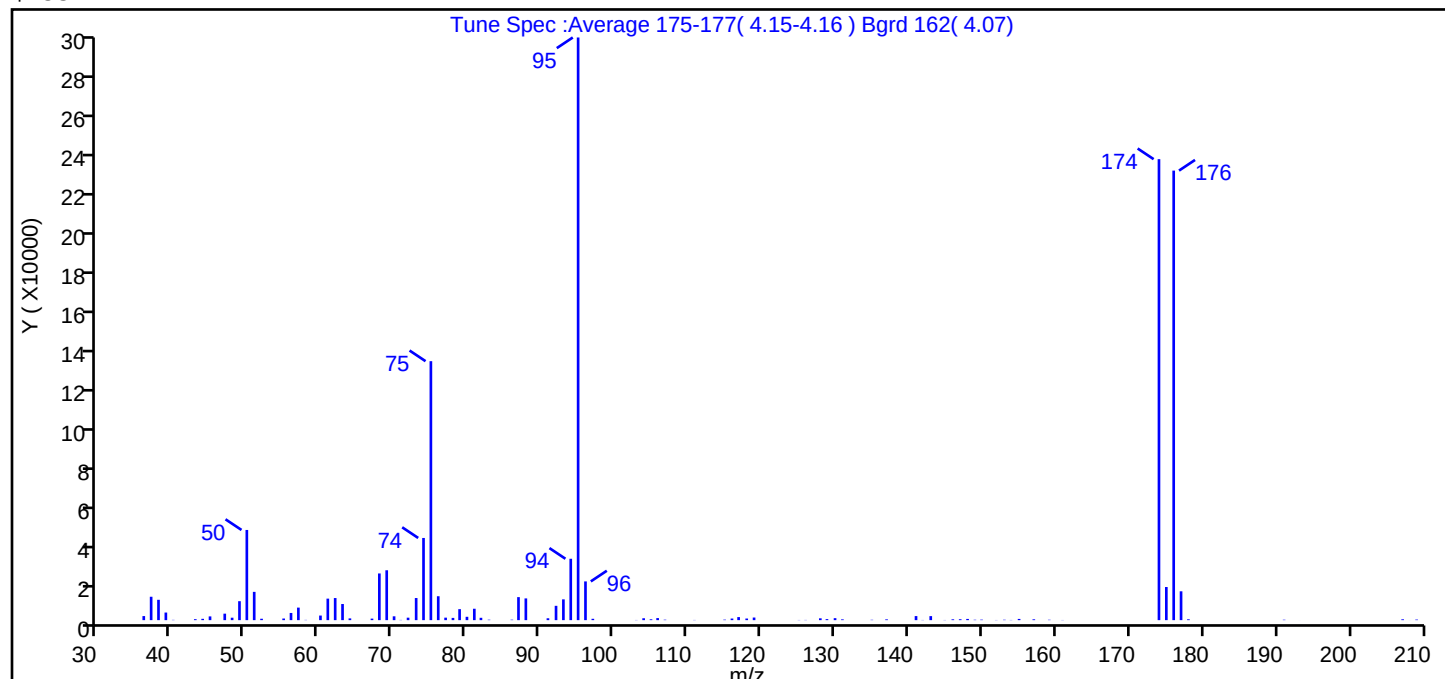
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Tune Method: BFB Method 8260

\$ 53 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.5
75	30 to 60% of m/z 95	44.4
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	79.1
175	5 to 9% of m/z 174	5.7 (7.2)
176	Greater than 95% but less than 101% of m/z 174	77.2 (97.5)
177	5 to 9% of m/z 176	5.0 (6.4)

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30T04.D\MSVoa_9137.rsl\spectra.d
Injection Date: 30-Sep-2024 18:32:30
Spectrum: Tune Spec :Average 175-177(4.15-4.16) Bgrd 162(4.07)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 95

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2069	68.00	23768	96.00	19720	145.00	89
37.00	11910	69.00	25392	97.00	685	146.00	419
38.00	10359	70.00	1950	103.00	90	147.00	460
39.00	3870	71.00	108	104.00	962	148.00	617
40.00	137	72.00	1256	105.00	433	149.00	202
43.00	483	73.00	11257	106.00	1048	150.00	256
44.00	671	74.00	41840	107.00	230	152.00	84
45.00	1906	75.00	131840	111.00	101	153.00	206
47.00	3300	76.00	12174	115.00	255	154.00	94
48.00	1243	77.00	1266	116.00	816	155.00	617
49.00	9650	78.00	1141	117.00	1555	157.00	422
50.00	45912	79.00	5594	118.00	821	159.00	197
51.00	14398	80.00	1704	119.00	1331	161.00	84
52.00	713	81.00	5804	125.00	91	174.00	234688
55.00	824	82.00	1194	126.00	107	175.00	16864
56.00	3656	83.00	226	128.00	925	176.00	228864
57.00	6381	86.00	230	129.00	525	177.00	14684
58.00	126	87.00	11718	130.00	1007	178.00	427
60.00	2334	88.00	11066	131.00	398	191.00	212
61.00	10951	91.00	953	135.00	181	193.00	11
62.00	11247	92.00	7289	137.00	399	207.00	424
63.00	8209	93.00	10582	141.00	2071	208.00	15
64.00	891	94.00	31248	142.00	93	209.00	294
67.00	774	95.00	296640	143.00	2049		

Report Date: 01-Oct-2024 09:16:56

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30T04.D

Injection Date: 30-Sep-2024 18:32:30

Instrument ID: 9137

Operator ID: MCD07824

Lims ID: bfb

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

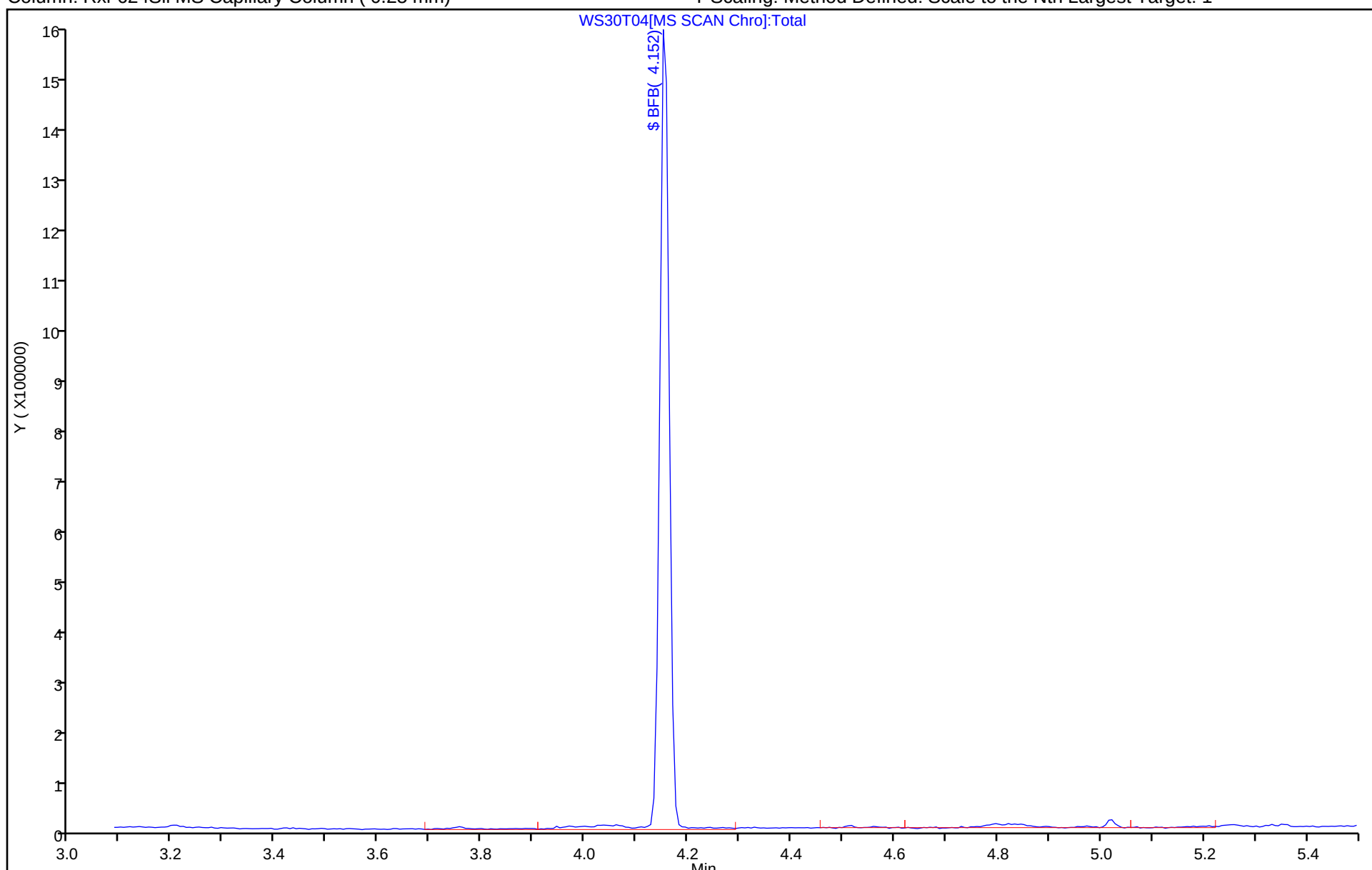
ALS Bottle#: 1

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10T51.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 10-Oct-2024 21:50:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0127401-001
Misc. Info.: BFB
Operator ID: KEL87800 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2024 02:03:14 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1676

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 53 BFB	95	4.152	4.152	0.000	0	452685	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

MSV_V_BFB_00017

Amount Added: 1.00

Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10T51.D

Injection Date: 10-Oct-2024 21:50:30

Instrument ID: 9137

Lims ID: BFB

Client ID:

Operator ID: KEL87800

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

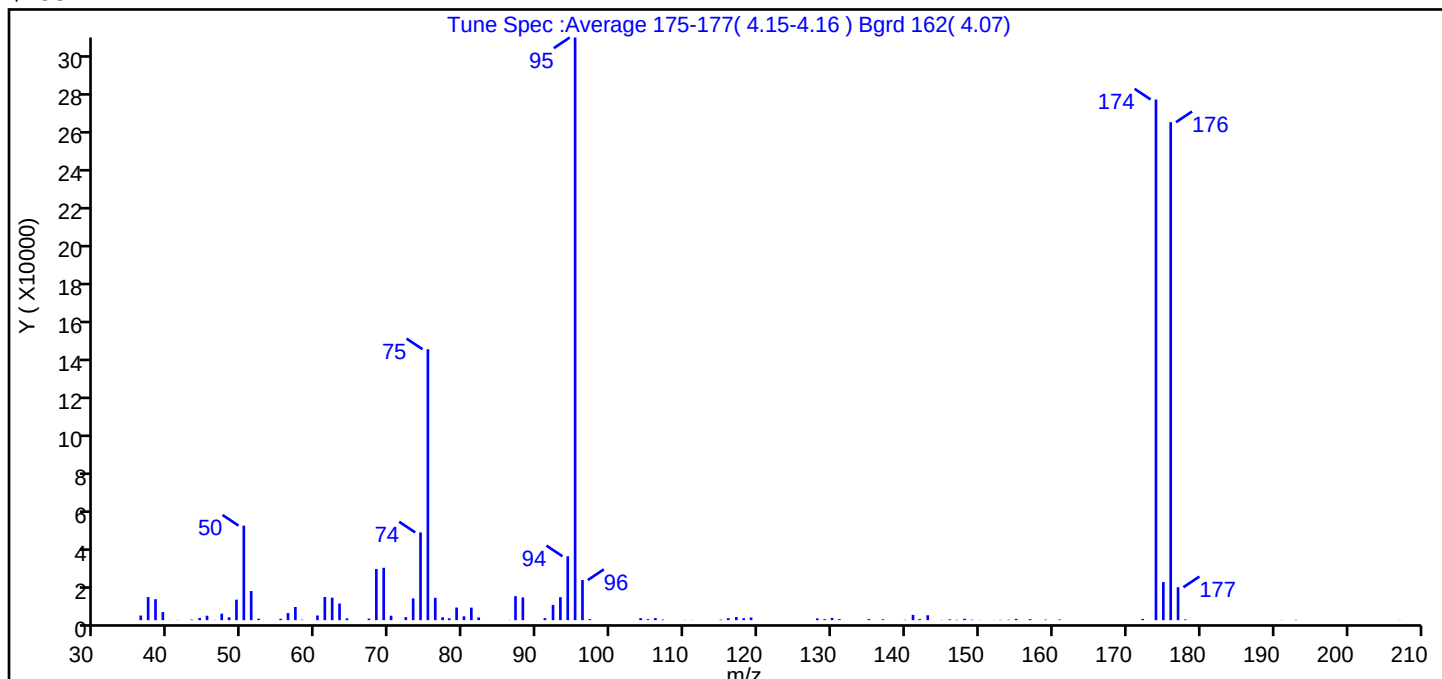
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Tune Method: BFB Method 8260

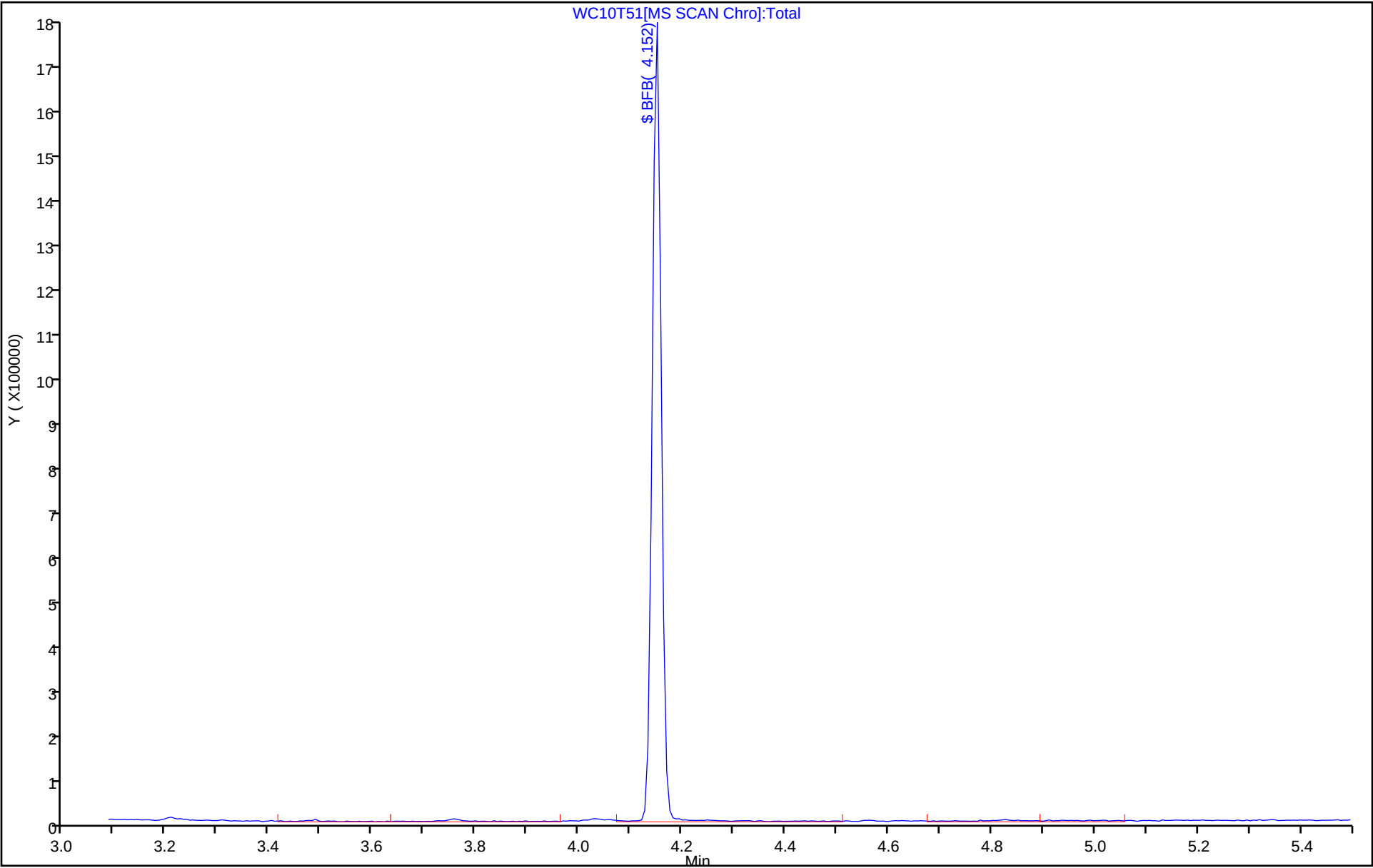
\$ 53 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.2
75	30 to 60% of m/z 95	46.5
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	89.4
175	5 to 9% of m/z 174	6.5 (7.3)
176	Greater than 95% but less than 101% of m/z 174	85.5 (95.6)
177	5 to 9% of m/z 176	5.7 (6.6)

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10T51.D\MSVoa_9137.rsl\spectra.d
Injection Date: 10-Oct-2024 21:50:30
Spectrum: Tune Spec :Average 175-177(4.15-4.16) Bgrd 162(4.07)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2438	64.00	940	96.00	21256	146.00	438
37.00	12237	67.00	811	97.00	544	147.00	188
38.00	11106	68.00	27136	104.00	1070	148.00	759
39.00	4275	69.00	27768	105.00	512	149.00	231
40.00	67	70.00	2349	106.00	1104	150.00	86
41.00	89	72.00	1601	107.00	301	152.00	86
43.00	301	73.00	11533	110.00	94	153.00	149
44.00	1163	74.00	46536	111.00	102	154.00	226
45.00	2354	75.00	143680	115.00	296	155.00	681
46.00	114	76.00	11871	116.00	1070	157.00	549
47.00	3436	77.00	1514	117.00	1662	159.00	274
48.00	1520	78.00	1009	118.00	1016	161.00	358
49.00	10849	79.00	6684	119.00	1413	172.00	642
50.00	50128	80.00	2036	128.00	921	174.00	276160
51.00	15435	81.00	6631	129.00	498	175.00	20176
52.00	742	82.00	1422	130.00	1161	176.00	264128
55.00	721	86.00	99	131.00	525	177.00	17464
56.00	3759	87.00	12731	135.00	529	178.00	377
57.00	6970	88.00	12032	137.00	420	191.00	99
58.00	226	91.00	1074	140.00	177	193.00	193
60.00	2468	92.00	8093	141.00	2782	207.00	76
61.00	12289	93.00	12158	142.00	549		
62.00	11917	94.00	33880	143.00	2600		
63.00	8801	95.00	309056	145.00	124		



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13T01.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 13-Oct-2024 19:21:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0127582-001
Misc. Info.: BFB
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 13-Oct-2024 23:14:56 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1675

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 53 BFB	95	4.152	4.152	0.000	0	313059	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

MSV_V_BFB_00017

Amount Added: 1.00

Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13T01.D

Injection Date: 13-Oct-2024 19:21:30

Instrument ID: 9137

Lims ID: BFB

Client ID:

Operator ID: gaw91131

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

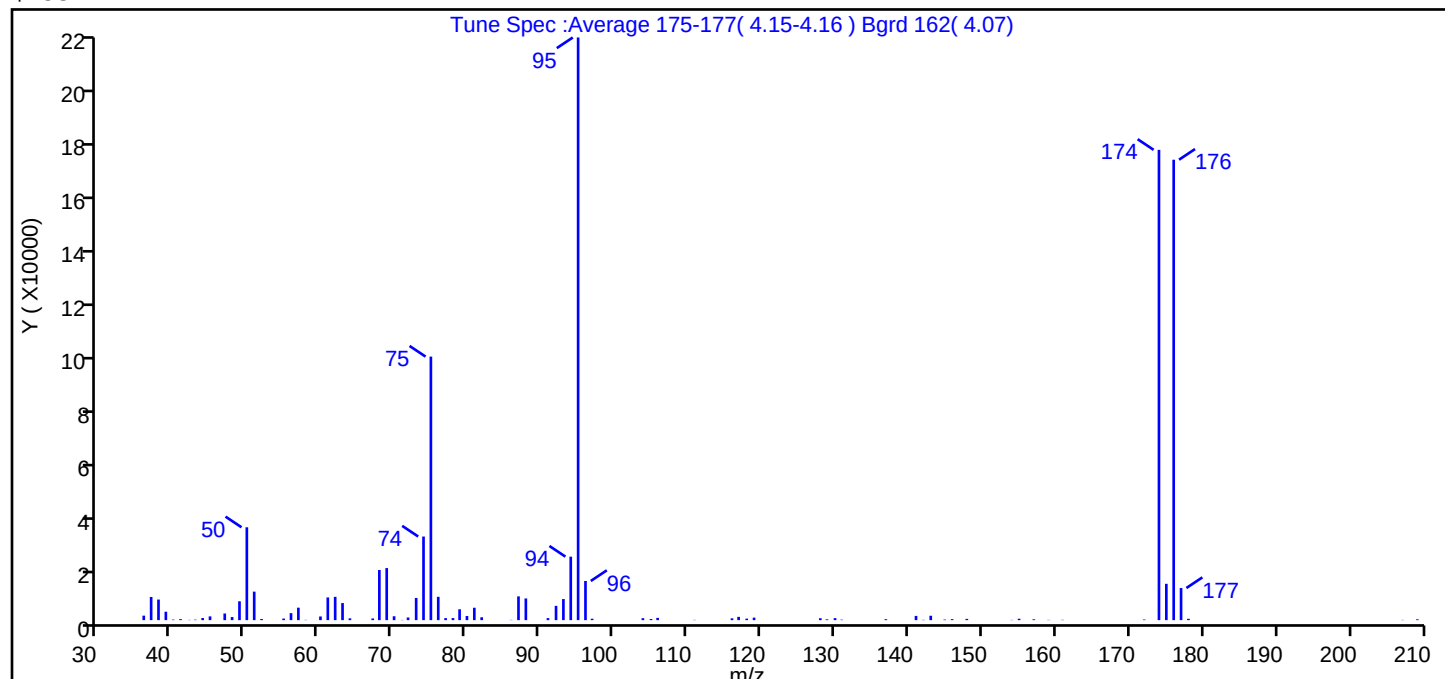
Dil. Factor: 1.0000

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Tune Method: BFB Method 8260

\$ 53 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.9
75	30 to 60% of m/z 95	45.2
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	80.7
175	5 to 9% of m/z 174	6.2 (7.7)
176	Greater than 95% but less than 101% of m/z 174	79.0 (97.9)
177	5 to 9% of m/z 176	5.5 (7.0)

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13T01.D\MSVoa_9137.rsl\spectra.d
Injection Date: 13-Oct-2024 19:21:30
Spectrum: Tune Spec :Average 175-177(4.15-4.16) Bgrd 162(4.07)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1632	61.00	8249	87.00	8634	137.00	345
37.00	8420	62.00	8461	88.00	7877	141.00	1538
38.00	7481	63.00	6207	91.00	739	142.00	113
39.00	3058	64.00	649	92.00	5193	143.00	1593
40.00	190	67.00	613	93.00	7665	145.00	211
41.00	374	68.00	18216	94.00	23072	146.00	364
42.00	88	69.00	18920	95.00	211712	148.00	454
43.00	173	70.00	1415	96.00	14233	154.00	84
44.00	768	71.00	84	97.00	521	155.00	513
45.00	1366	72.00	965	104.00	715	157.00	307
47.00	2413	73.00	8065	105.00	418	159.00	97
48.00	1124	74.00	30384	106.00	825	161.00	118
49.00	6857	75.00	95760	111.00	92	172.00	219
50.00	33744	76.00	8470	116.00	655	174.00	170880
51.00	10359	77.00	736	117.00	1191	175.00	13205
52.00	416	78.00	756	118.00	547	176.00	167296
55.00	573	79.00	3944	119.00	914	177.00	11670
56.00	2543	80.00	1500	128.00	698	178.00	491
57.00	4533	81.00	4508	129.00	296	207.00	87
58.00	99	82.00	1048	130.00	732	209.00	301
60.00	1338	86.00	92	131.00	168		

Report Date: 13-Oct-2024 23:14:57

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13T01.D

Injection Date: 13-Oct-2024 19:21:30

Instrument ID: 9137

Operator ID: gaw91131

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

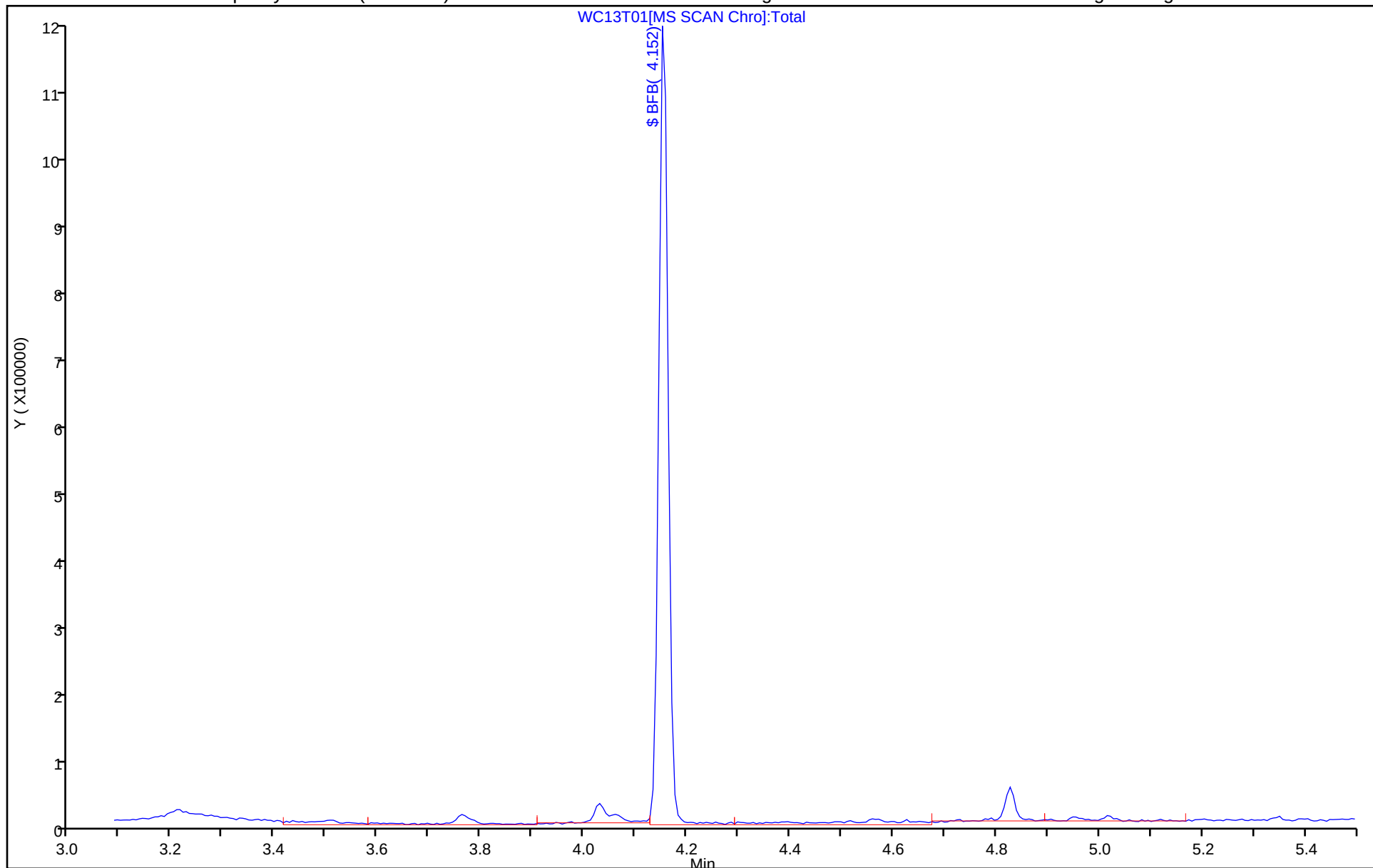
ALS Bottle#: 1

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID:

Lab Sample ID: MB 410-561893/6

Matrix: Water

Lab File ID: WC10X55.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 5(mL)

Date Analyzed: 10/10/2024 23:31

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 561893

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	Job No.: 410-191672-1
SDG No.:	
Client Sample ID:	Lab Sample ID: MB 410-561893/6
Matrix: Water	Lab File ID: WC10X55.D
Analysis Method: 8260D	Date Collected:
Sample wt/vol: 5(mL)	Date Analyzed: 10/10/2024 23:31
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: R-624SilMS 30m ID: 0.25 (mm)
Purge Volume: 5.0 (mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 561893	Units: ug/L
Preparation Batch No.:	Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X55.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 10-Oct-2024 23:31:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127401-006
 Misc. Info.: MB
 Operator ID: KEL87800 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 11-Oct-2024 13:50:33 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1645

First Level Reviewer: FQ4L

Date: 11-Oct-2024 13:53:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
A 1 C4-C10	1		(0.000-0.100)					ND	
A 2 C4-C12	1		(0.000-0.250)					ND	
4 Chlorotrifluoroethene	116		1.969					ND	
6 Dichlorodifluoromethane	85		2.014					ND	
5 Chlorodifluoromethane	51		2.021					ND	
7 Chloromethane	50		2.213					ND	
8 Vinyl chloride	62		2.332					ND	
9 Butadiene	39		2.358					ND	7
10 2-Chloro-1,1,1-Trifluoroethane	118		2.428					ND	
11 Bromomethane	94		2.695					ND	7
12 Chloroethane	64		2.781					ND	
13 Dichlorofluoromethane	67		3.047					ND	7
14 Trichlorofluoromethane	101		3.108					ND	
15 Pentane	43		3.150					ND	7
17 Ethanol	45		3.208					ND	
16 Ethyl ether	59		3.349					ND	
18 1,2-Dichloro-1,1,2-trifluoroetha	67		3.455					ND	
19 Acrolein	56		3.545					ND	7
21 1,1-Dichloroethene	96		3.699					ND	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.715					ND	
20 Acetone	58		3.731					ND	
25 Iodomethane	142		3.901					ND	
23 Isopropyl alcohol	45		3.914					ND	
26 Carbon disulfide	76		4.020					ND	7
29 Acetonitrile	41		4.138					ND	
28 Methyl acetate	43		4.155					ND	
27 3-Chloro-1-propene	41		4.183					ND	7
30 Methylene Chloride	84		4.389					ND	7
* 32 t-Butyl alcohol-d10 (IS)	65	4.379	4.408	-0.029	5	302098	250.0	250.0	
33 2-Methyl-2-propanol	59		4.533					ND	
34 Acrylonitrile	53		4.739					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Methyl tert-butyl ether	73		4.793					ND	
35 trans-1,2-Dichloroethene	96		4.796					ND	
37 Hexane	57		5.226					ND	
39 Vinyl acetate	43		5.464					ND	7
38 1,1-Dichloroethane	63		5.470					ND	
40 Isopropyl ether	45		5.525					ND	
41 2-Chloro-1,3-butadiene	53		5.579					ND	
42 Tert-butyl ethyl ether	59		6.067					ND	
S 80 1,2-Dichloroethene, Total	100		6.155					ND	7
44 2-Butanone (MEK)	43		6.279					ND	
43 cis-1,2-Dichloroethene	96		6.301					ND	
46 Ethyl acetate	43		6.330					ND	
45 2,2-Dichloropropane	77		6.330					ND	
47 Propionitrile	54		6.378					ND	
A 82 C6-C10	1	6.394	(2.952-9.836)		0	287660		NC	
48 Methyl acrylate	55		6.397					ND	
49 Methacrylonitrile	67		6.584					ND	
50 Chlorobromomethane	128		6.632					ND	
51 Tetrahydrofuran	71		6.648					ND	
52 Chloroform	83		6.786					ND	
\$ 54 Dibromofluoromethane (Surr)	113	6.994	6.998	-0.004	94	243098	50.0	53.0	
55 1,1,1-Trichloroethane	97		7.014					ND	
56 Cyclohexane	56		7.107					ND	
A 89 C5-C12	1	7.153	(2.686-11.621)		0	2827066		NC	
58 Carbon tetrachloride	117		7.216					ND	
57 1,1-Dichloropropene	75		7.229					ND	
A 92 C6-C12	1	7.286	(2.952-11.621)		0	2817383		NC	
59 Isobutyl alcohol	41		7.392					ND	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.450	7.457	-0.007	69	58423	50.0	48.8	
61 Benzene	78		7.489					ND	
95 t-Amyl alcohol	73		7.511					ND	
62 1,2-Dichloroethane	62		7.562					ND	
63 Isopropyl acetate	43		7.572					ND	7
64 Tert-amyl methyl ether	73		7.678					ND	
* 65 Fluorobenzene (IS)	96	7.886	7.890	-0.004	99	954922	50.0	50.0	
66 n-Heptane	43		7.903					ND	7
67 n-Butanol	56		8.262					ND	
68 Trichloroethene	95		8.365					ND	
69 Ethyl acrylate	55		8.480					ND	
70 Methylcyclohexane	83		8.673					ND	
72 2-ethoxy-2-methyl butane	87		8.702					ND	
71 1,2-Dichloropropane	63		8.708					ND	
74 Methyl methacrylate	69		8.785					ND	
75 1,4-Dioxane	88		8.795					ND	
73 Dibromomethane	93		8.820					ND	
76 n-Propyl acetate	61		8.862					ND	
77 Dichlorobromomethane	83		9.048					ND	
78 2-Nitropropane	41		9.324					ND	7
79 2-Chloroethyl vinyl ether	63		9.404					ND	
124 2,3,4-Trichlorobutene	109		9.417					ND	
81 cis-1,3-Dichloropropene	75		9.584					ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.757					ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 84 Toluene-d8 (Surr)	98	9.882	9.886	-0.004	93	938193	50.0	48.4	
85 Toluene	92		9.959					ND	
S 162 1,3-Dichloropropene, Total	100		10.060					ND	7
86 trans-1,3-Dichloropropene	75		10.213					ND	
87 Ethyl methacrylate	69		10.271					ND	
88 1,1,2-Trichloroethane	97		10.412					ND	
90 Tetrachloroethene	166		10.499					ND	
91 1,3-Dichloropropane	76		10.576					ND	
93 3,4-Dichloro-1-butene	75		10.614					ND	7
94 2-Hexanone	43		10.627					ND	7
97 n-Butyl acetate	43		10.739					ND	7
96 Chlorodibromomethane	129		10.784					ND	
98 Ethylene Dibromide	107		10.896					ND	
S 178 Xylenes, Total	106		11.245					ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.323	0.000	85	734060	50.0	50.0	
103 1-Chlorohexane	91		11.330					ND	7
102 Chlorobenzene	112		11.349					ND	7
104 1,1,1,2-Tetrachloroethane	131		11.432					ND	
105 Ethylbenzene	91		11.432					ND	7
106 m-Xylene & p-Xylene	106		11.548					ND	7
107 n-Butyl acrylate	55		11.821					ND	
108 o-Xylene	106		11.875					ND	
109 Styrene	104		11.888					ND	7
110 Bromoform	173		12.048					ND	
111 Isopropylbenzene	105		12.170					ND	7
112 cis-1,4-Dichloro-2-butene	88		12.222					ND	U
113 Cyclohexanone	55		12.257					ND	7
\$ 114 4-Bromofluorobenzene (Surr)	95	12.315	12.312	0.003	91	346081	50.0	47.5	
116 1,1,2,2-Tetrachloroethane	83		12.418					ND	
115 Bromobenzene	156		12.434					ND	
119 trans-1,4-Dichloro-2-butene	53		12.443					ND	
118 1,2,3-Trichloropropane	110		12.466					ND	
120 N-Propylbenzene	91		12.501					ND	
121 2-Chlorotoluene	126		12.578					ND	
122 1,3,5-Trimethylbenzene	105		12.633					ND	
123 4-Chlorotoluene	126		12.668					ND	
125 tert-Butylbenzene	134		12.876					ND	
126 Pentachloroethane	167		12.915					ND	
127 1,2,4-Trimethylbenzene	105		12.918					ND	
128 sec-Butylbenzene	105		13.040					ND	
131 1,3-Dichlorobenzene	146		13.136					ND	7
132 4-Isopropyltoluene	119		13.146					ND	7
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.191	0.003	95	418656	50.0	50.0	
134 1,4-Dichlorobenzene	146		13.213					ND	7
148 1,2,3-Trimethylbenzene	105		13.223					ND	7
170 Benzyl chloride	91		13.290					ND	7
171 1,3-Diethylbenzene	119		13.345					ND	7
172 p-Diethylbenzene	119		13.415					ND	7
173 n-Butylbenzene	92		13.435					ND	
174 1,2-Dichlorobenzene	146		13.473					ND	
175 o-diethylbenzene	119		13.489					ND	7
185 Hexachloroethane	201		13.560					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
176 1,2-Dibromo-3-Chloropropane	75		14.016					ND	
177 1,3,5-Trichlorobenzene	180		14.137					ND	7
179 1,2,4-Trichlorobenzene	180		14.564					ND	7
181 2-Ethylhexyl acrylate	55		14.616					ND	
180 Hexachlorobutadiene	225		14.644					ND	
182 Naphthalene	128		14.747					ND	7
183 1,2,3-Trichlorobenzene	180		14.892					ND	7
184 2-Methylnaphthalene	142		15.533					ND	7
186 tert-Butyl Formate	1		0.000					ND	
212 1,3-Divinylbenzene	1		0.000					ND	
213 Propene oxide	1		0.000					ND	
215 2-ethoxy-2-methyl butane TIC	1		0.000					ND	
216 Dimethylformamide TIC	1		0.000					ND	
217 Undecane	1		0.000					ND	
218 4-Ethyltoluene	1		0.000					ND	
219 sec-Butyl Alcohol	45		0.000					ND	
220 Diethoxymethane	1		0.000					ND	
211 Ethyl bromide	1		0.000					ND	
221 1,4-Divinylbenzene	1		0.000					ND	
223 3-Pentanone TIC	1		0.000					ND	
\$ 280 trans-1,2,3-Trichlorobutene-2 TIC	1		0.000					ND	
281 2,3-Dimethylbutane TIC	1		0.000					ND	
282 2,2-Dimethylbutane TIC	1		0.000					ND	
283 Methylcyclopentane TIC	1		0.000					ND	
284 Dimethyl Sulfide TIC	1		0.000					ND	
285 2,2-Dimethylpropane TIC	1		0.000					ND	
286 2-Methylhexane TIC	1		0.000					ND	
288 3-Methylpentane TIC	1		0.000					ND	
222 1,1,1,2-Tetrafluoroethane TIC	1		0.000					ND	
210 n-Octane	1		0.000					ND	
S 209 divinyl benzene	1		0.000					ND	7
187 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
188 cis-1,2,3-Trichlorobutene-2	1		0.000					ND	
189 Decamethylcyclopentasiloxane TIC	1		0.000					ND	
190 n-Nonane	1		0.000					ND	
191 Gasoline (Unleaded)	1		0.000					ND	
192 1-Methylnaphthalene	142		0.000					ND	
193 sec-Butyl Alcohol TIC	1		0.000					ND	
194 1-Chlorobutane	1		0.000					ND	
195 trans-1,2,3-Trichlorobutene-2	1		0.000					ND	
196 3-Methyl-1-butene	1		0.000					ND	
197 Propanol	1		0.000					ND	
198 3-chloro-1-Butene	1		0.000					ND	
199 Chloroacetonitrile	1		0.000					ND	
200 Methylal	1		0.000					ND	
201 2,3-Dichloro-1,3-butadiene	1		0.000					ND	
S 202 Total BTEX	1		0.000					ND	
203 Isobutyl acetate	43		0.000					ND	
204 1-Bromo-2-chloroethane	1		0.000					ND	
S 205 Total Diethylbenzene	1		0.000					ND	7
206 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000					ND	
289 Cyclopentane TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

290 3-Methylhexane TIC

1

0.000

ND

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00030

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 11-Oct-2024 13:53:44

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X55.D

Injection Date: 10-Oct-2024 23:31:30

Instrument ID: 9137

Operator ID: KEL87800

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

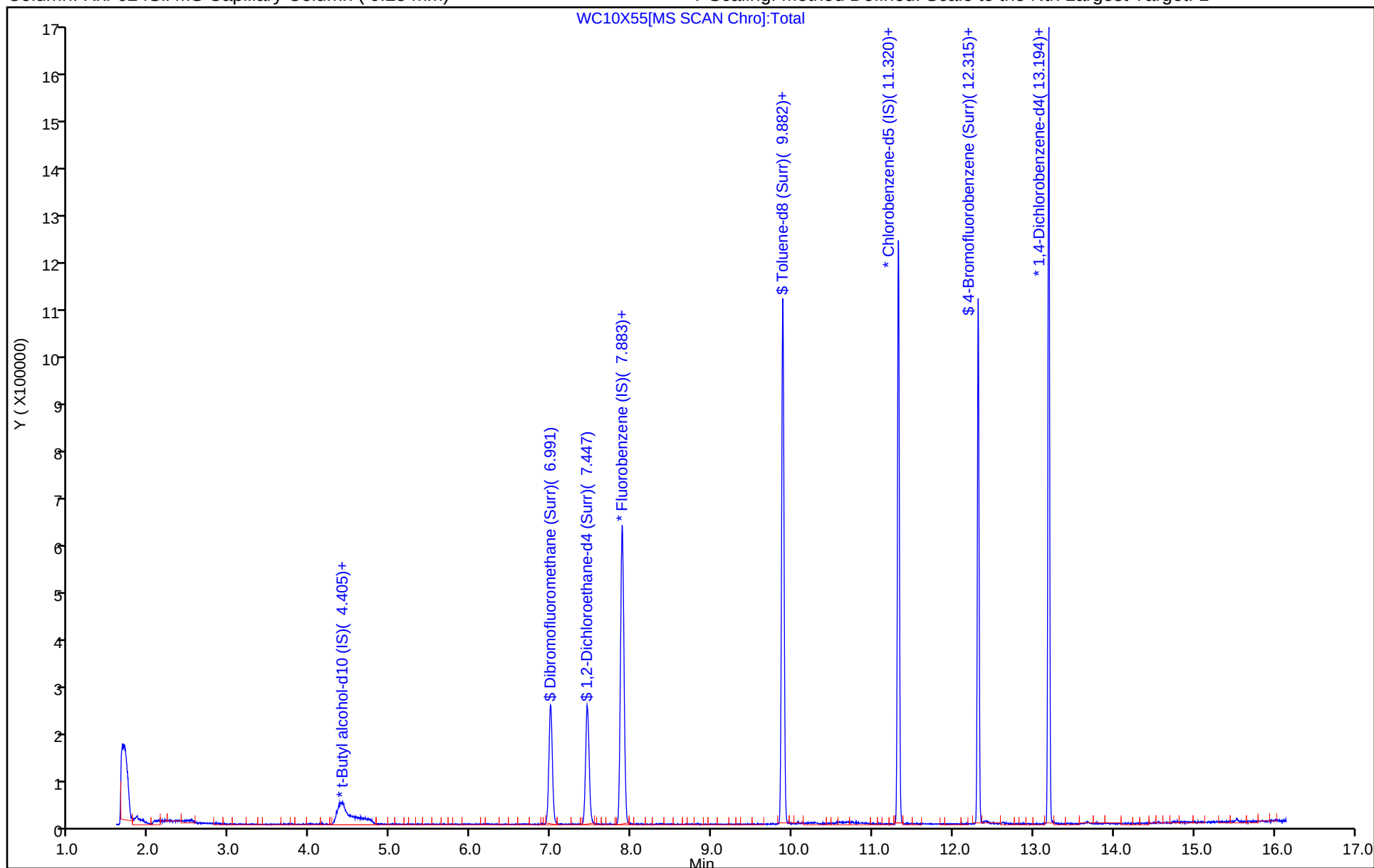
ALS Bottle#: 5

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X55.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 10-Oct-2024 23:31:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127401-006
Misc. Info.: MB
Operator ID: KEL87800 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2024 13:50:33 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1645

First Level Reviewer: FQ4L

Date: 11-Oct-2024 13:53:43

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	53.0	106.00
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	48.8	97.64
\$ 84 Toluene-d8 (Surr)	50.0	48.4	96.80
\$ 114 4-Bromofluorobenzene (Surr)	50.0	47.5	94.99

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID:

Lab Sample ID: MB 410-562572/10

Matrix: Water

Lab File ID: WC13X09.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 5(mL)

Date Analyzed: 10/13/2024 22:31

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 562572

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID:

Lab Sample ID: MB 410-562572/10

Matrix: Water

Lab File ID: WC13X09.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 5 (mL)

Date Analyzed: 10/13/2024 22:31

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 562572

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X09.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 13-Oct-2024 22:31:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127582-010
 Misc. Info.: MB
 Operator ID: gaw91131 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 13-Oct-2024 23:14:08 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1675

First Level Reviewer: JS6E

Date: 13-Oct-2024 23:13:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
A 1 C4-C10	1		(0.000-0.100)					ND	
A 2 C4-C12	1		(0.000-0.250)					ND	
4 Chlorotrifluoroethene	116		1.969					ND	
6 Dichlorodifluoromethane	85		2.011					ND	
5 Chlorodifluoromethane	51		2.021					ND	
7 Chloromethane	50		2.219					ND	
8 Vinyl chloride	62		2.335					ND	
9 Butadiene	39		2.361					ND	7
10 2-Chloro-1,1,1-Trifluoroethane	118		2.428					ND	
11 Bromomethane	94		2.694					ND	
12 Chloroethane	64		2.781					ND	
13 Dichlorofluoromethane	67		3.047					ND	
14 Trichlorofluoromethane	101		3.111					ND	
15 Pentane	43		3.147					ND	
17 Ethanol	45		3.221					ND	7
16 Ethyl ether	59		3.349					ND	
18 1,2-Dichloro-1,1,2-trifluoroetha	67		3.464					ND	
19 Acrolein	56		3.541					ND	
21 1,1-Dichloroethene	96		3.696					ND	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.721					ND	
20 Acetone	58		3.724					ND	U
25 Iodomethane	142		3.904					ND	
23 Isopropyl alcohol	45		3.920					ND	
26 Carbon disulfide	76		4.020					ND	
29 Acetonitrile	41		4.138					ND	7
28 Methyl acetate	43		4.158					ND	7
27 3-Chloro-1-propene	41		4.180					ND	7
30 Methylene Chloride	84		4.382					ND	
* 32 t-Butyl alcohol-d10 (IS)	65	4.392	4.389	0.003	21	326128	250.0	250.0	
33 2-Methyl-2-propanol	59		4.536					ND	
34 Acrylonitrile	53		4.742					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 trans-1,2-Dichloroethene	96		4.793					ND	
36 Methyl tert-butyl ether	73		4.799					ND	
37 Hexane	57		5.229					ND	
39 Vinyl acetate	43		5.464					ND	7
38 1,1-Dichloroethane	63		5.467					ND	
40 Isopropyl ether	45		5.528					ND	
41 2-Chloro-1,3-butadiene	53		5.579					ND	
42 Tert-butyl ethyl ether	59		6.060					ND	
S 80 1,2-Dichloroethene, Total	100		6.155					ND	7
44 2-Butanone (MEK)	43		6.285					ND	
43 cis-1,2-Dichloroethene	96		6.304					ND	7
45 2,2-Dichloropropane	77		6.320					ND	
46 Ethyl acetate	43		6.330					ND	
47 Propionitrile	54		6.381					ND	
48 Methyl acrylate	55		6.385					ND	
A 82 C6-C10	1	6.394	(2.952-9.836)		0	302104		NC	
49 Methacrylonitrile	67		6.596					ND	
50 Chlorobromomethane	128		6.638					ND	
51 Tetrahydrofuran	71		6.654					ND	
52 Chloroform	83		6.786					ND	
\$ 54 Dibromofluoromethane (Surr)	113	6.998	7.001	-0.003	93	277995	50.0	52.0	
55 1,1,1-Trichloroethane	97		7.020					ND	
56 Cyclohexane	56		7.107					ND	
A 89 C5-C12	1	7.153	(2.686-11.621)		0	3275991		NC	
58 Carbon tetrachloride	117		7.219					ND	
57 1,1-Dichloropropene	75		7.225					ND	
A 92 C6-C12	1	7.286	(2.952-11.621)		0	3261600		NC	
59 Isobutyl alcohol	41		7.389					ND	7
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.453	7.460	-0.007	70	69556	50.0	49.9	
61 Benzene	78		7.488					ND	
95 t-Amyl alcohol	73		7.511					ND	
62 1,2-Dichloroethane	62		7.562					ND	
63 Isopropyl acetate	43		7.572					ND	7
64 Tert-amyl methyl ether	73		7.675					ND	
* 65 Fluorobenzene (IS)	96	7.887	7.896	-0.009	99	1112846	50.0	50.0	
66 n-Heptane	43		7.899					ND	7
67 n-Butanol	56		8.265					ND	
68 Trichloroethene	95		8.371					ND	
69 Ethyl acrylate	55		8.477					ND	
70 Methylcyclohexane	83		8.676					ND	
71 1,2-Dichloropropane	63		8.708					ND	
72 2-ethoxy-2-methyl butane	87		8.711					ND	
74 Methyl methacrylate	69		8.785					ND	
75 1,4-Dioxane	88		8.798					ND	
73 Dibromomethane	93		8.820					ND	
76 n-Propyl acetate	61		8.862					ND	
77 Dichlorobromomethane	83		9.051					ND	
78 2-Nitropropane	41		9.330					ND	7
79 2-Chloroethyl vinyl ether	63		9.407					ND	
124 2,3,4-Trichlorobutene	109		9.417					ND	
81 cis-1,3-Dichloropropene	75		9.587					ND	7
83 4-Methyl-2-pentanone (MIBK)	43		9.760					ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 84 Toluene-d8 (Surr)	98	9.886	9.886	0.000	93	1097661	50.0	50.8	
85 Toluene	92		9.963					ND	
S 162 1,3-Dichloropropene, Total	100		10.060					ND	7
86 trans-1,3-Dichloropropene	75		10.216					ND	7
87 Ethyl methacrylate	69		10.274					ND	
88 1,1,2-Trichloroethane	97		10.418					ND	
90 Tetrachloroethene	166		10.498					ND	
91 1,3-Dichloropropane	76		10.579					ND	
93 3,4-Dichloro-1-butene	75		10.614					ND	7
94 2-Hexanone	43		10.630					ND	7
97 n-Butyl acetate	43		10.739					ND	7
96 Chlorodibromomethane	129		10.787					ND	
98 Ethylene Dibromide	107		10.900					ND	
S 178 Xylenes, Total	106		11.245					ND	7
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.326	-0.003	84	818692	50.0	50.0	
103 1-Chlorohexane	91		11.333					ND	U
102 Chlorobenzene	112		11.352					ND	
104 1,1,1,2-Tetrachloroethane	131		11.432					ND	
105 Ethylbenzene	91		11.435					ND	7
106 m-Xylene & p-Xylene	106		11.548					ND	7
107 n-Butyl acrylate	55		11.821					ND	
108 o-Xylene	106		11.875					ND	
109 Styrene	104		11.891					ND	
110 Bromoform	173		12.048					ND	
111 Isopropylbenzene	105		12.173					ND	
112 cis-1,4-Dichloro-2-butene	88		12.222					ND	U
113 Cyclohexanone	55		12.254					ND	7
\$ 114 4-Bromofluorobenzene (Surr)	95	12.318	12.318	0.000	90	402089	50.0	49.5	
116 1,1,2,2-Tetrachloroethane	83		12.421					ND	
115 Bromobenzene	156		12.437					ND	
119 trans-1,4-Dichloro-2-butene	53		12.443					ND	
118 1,2,3-Trichloropropane	110		12.469					ND	
120 N-Propylbenzene	91		12.501					ND	
121 2-Chlorotoluene	126		12.578					ND	
122 1,3,5-Trimethylbenzene	105		12.636					ND	
123 4-Chlorotoluene	126		12.671					ND	
125 tert-Butylbenzene	134		12.876					ND	
126 Pentachloroethane	167		12.915					ND	
127 1,2,4-Trimethylbenzene	105		12.918					ND	7
128 sec-Butylbenzene	105		13.040					ND	
131 1,3-Dichlorobenzene	146		13.139					ND	7
132 4-Isopropyltoluene	119		13.146					ND	7
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.194	0.000	95	460921	50.0	50.0	
134 1,4-Dichlorobenzene	146		13.213					ND	7
148 1,2,3-Trimethylbenzene	105		13.223					ND	
170 Benzyl chloride	91		13.290					ND	7
171 1,3-Diethylbenzene	119		13.345					ND	
172 p-Diethylbenzene	119		13.419					ND	
173 n-Butylbenzene	92		13.438					ND	
174 1,2-Dichlorobenzene	146		13.476					ND	
175 o-diethylbenzene	119		13.489					ND	
185 Hexachloroethane	201		13.560					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
176 1,2-Dibromo-3-Chloropropane	75		14.015					ND	
177 1,3,5-Trichlorobenzene	180		14.141					ND	
179 1,2,4-Trichlorobenzene	180		14.564					ND	
181 2-Ethylhexyl acrylate	55		14.616					ND	
180 Hexachlorobutadiene	225		14.644					ND	
182 Naphthalene	128		14.747					ND	7
183 1,2,3-Trichlorobenzene	180		14.895					ND	
184 2-Methylnaphthalene	142		15.536					ND	
186 tert-Butyl Formate	1		0.000					ND	
211 Ethyl bromide	1		0.000					ND	
212 1,3-Divinylbenzene	1		0.000					ND	
213 Propene oxide	1		0.000					ND	
215 2-ethoxy-2-methyl butane TIC	1		0.000					ND	
216 Dimethylformamide TIC	1		0.000					ND	
217 Undecane	1		0.000					ND	
218 4-Ethyltoluene	1		0.000					ND	
219 sec-Butyl Alcohol	45		0.000					ND	
220 Diethoxymethane	1		0.000					ND	
221 1,4-Divinylbenzene	1		0.000					ND	
222 1,1,1,2-Tetrafluoroethane TIC	1		0.000					ND	
223 3-Pentanone TIC	1		0.000					ND	
\$ 280 trans-1,2,3-Trichlorobutene-2 TIC	1		0.000					ND	
281 2,3-Dimethylbutane TIC	1		0.000					ND	
282 2,2-Dimethylbutane TIC	1		0.000					ND	
283 Methylcyclopentane TIC	1		0.000					ND	
284 Dimethyl Sulfide TIC	1		0.000					ND	
285 2,2-Dimethylpropane TIC	1		0.000					ND	
286 2-Methylhexane TIC	1		0.000					ND	
288 3-Methylpentane TIC	1		0.000					ND	
210 n-Octane	1		0.000					ND	
S 209 divinyl benzene	1		0.000					ND	7
196 3-Methyl-1-butene	1		0.000					ND	
187 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
188 cis-1,2,3-Trichlorobutene-2	1		0.000					ND	
189 Decamethylcyclopentasiloxane TIC	1		0.000					ND	
190 n-Nonane	1		0.000					ND	
191 Gasoline (Unleaded)	1		0.000					ND	
192 1-Methylnaphthalene	142		0.000					ND	
193 sec-Butyl Alcohol TIC	1		0.000					ND	
194 1-Chlorobutane	1		0.000					ND	
195 trans-1,2,3-Trichlorobutene-2	1		0.000					ND	
197 Propanol	1		0.000					ND	
198 3-chloro-1-Butene	1		0.000					ND	
199 Chloroacetonitrile	1		0.000					ND	
200 Methylal	1		0.000					ND	
201 2,3-Dichloro-1,3-butadiene	1		0.000					ND	
S 202 Total BTEX	1		0.000					ND	
203 Isobutyl acetate	43		0.000					ND	
204 1-Bromo-2-chloroethane	1		0.000					ND	
S 205 Total Diethylbenzene	1		0.000					ND	7
206 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000					ND	
289 Cyclopentane TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

290 3-Methylhexane TIC

1

0.000

ND

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

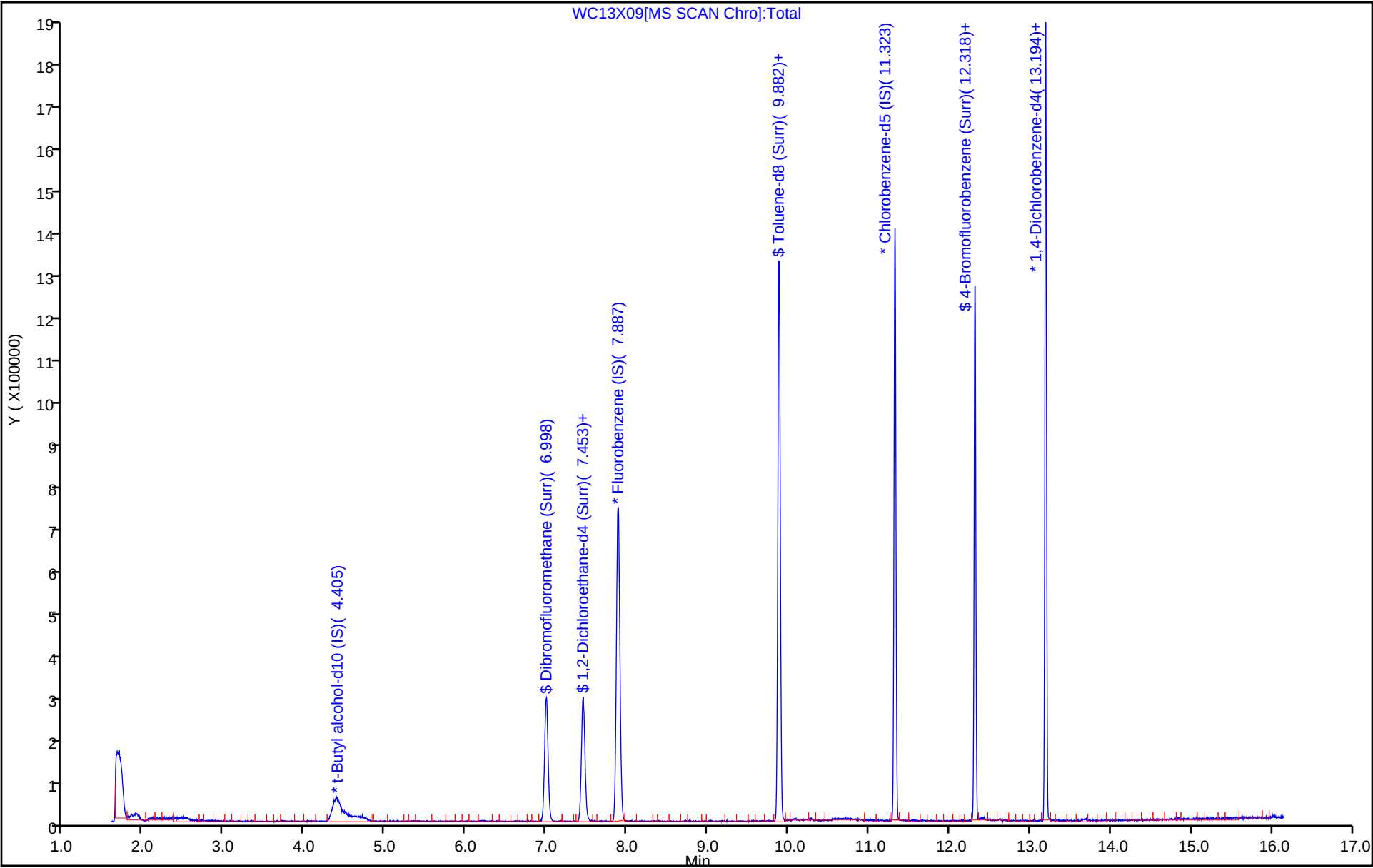
Reagents:

MSV_Cent_ISSS_00030

Amount Added: 5.00

Units: uL

Run Reagent



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X09.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 13-Oct-2024 22:31:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127582-010
Misc. Info.: MB
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 13-Oct-2024 23:14:08 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1675

First Level Reviewer: JS6E

Date: 13-Oct-2024 23:13:48

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	52.0	104.02
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	49.9	99.75
\$ 84 Toluene-d8 (Surr)	50.0	50.8	101.55
\$ 114 4-Bromofluorobenzene (Surr)	50.0	49.5	98.96

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X09.D

Injection Date: 13-Oct-2024 22:31:30

Instrument ID: 9137

Lims ID: MB

Client ID:

Operator ID: gaw91131

ALS Bottle#:

9

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: MSVoa_9137

Limit Group:

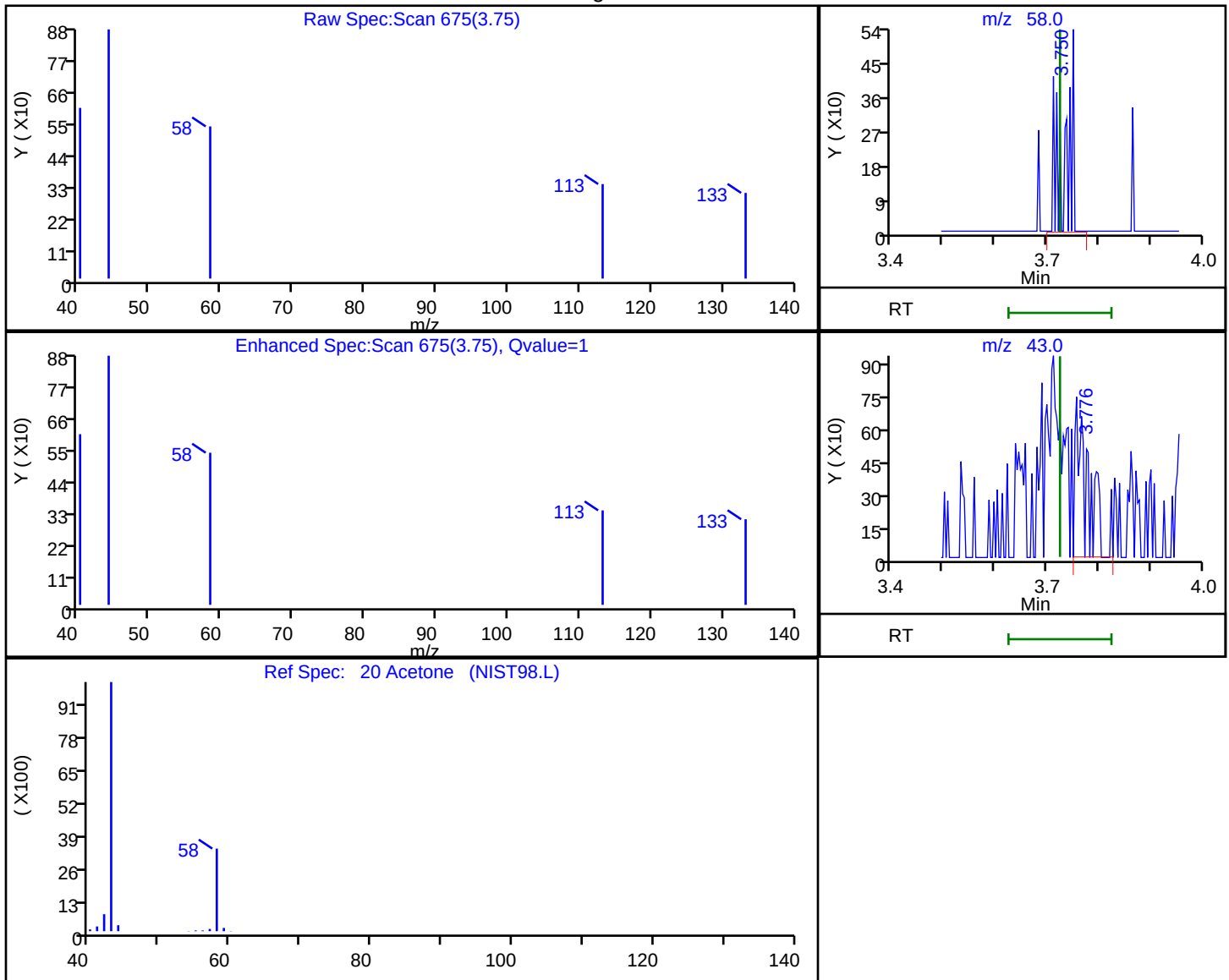
MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID)

MS Quad

20 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.75	58.00	489	0.491862
3.78	43.00	1245	

Reviewer: JS6E, 13-Oct-2024 23:13:10 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 410-561893/4

Matrix: Water

Lab File ID: WC10X53.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 5(mL)

Date Analyzed: 10/10/2024 22:47

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 561893

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	20.0		1.0	0.30
71-55-6	1,1,1-Trichloroethane	21.9		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	20.8		1.0	0.30
79-00-5	1,1,2-Trichloroethane	19.8		1.0	0.30
75-34-3	1,1-Dichloroethane	22.6		1.0	0.30
75-35-4	1,1-Dichloroethene	24.3		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	20.3		1.0	0.20
107-06-2	1,2-Dichloroethane	22.1		1.0	0.30
78-87-5	1,2-Dichloropropane	21.4		1.0	0.30
78-93-3	2-Butanone (MEK)	256		10	0.50
591-78-6	2-Hexanone	264		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	278		10	0.50
67-64-1	Acetone	271		20	0.70
71-43-2	Benzene	21.3		1.0	0.30
74-97-5	Bromochloromethane	20.5		5.0	0.20
75-27-4	Bromodichloromethane	21.3		1.0	0.20
75-25-2	Bromoform	19.4		4.0	1.0
74-83-9	Bromomethane	20.0		1.0	0.30
75-15-0	Carbon disulfide	21.4		5.0	0.30
56-23-5	Carbon tetrachloride	22.1		1.0	0.30
108-90-7	Chlorobenzene	20.2		1.0	0.30
75-00-3	Chloroethane	21.2		1.0	0.30
67-66-3	Chloroform	22.0		1.0	0.30
74-87-3	Chloromethane	20.8		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	21.5		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	18.5		1.0	0.20
124-48-1	Dibromochloromethane	19.6		1.0	0.20
100-41-4	Ethylbenzene	20.1		1.0	0.40
1634-04-4	Methyl tert-butyl ether	19.2		1.0	0.20
75-09-2	Methylene Chloride	22.1		1.0	0.30
100-42-5	Styrene	19.5		5.0	0.30
127-18-4	Tetrachloroethene	20.7		1.0	0.30

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Instrument ID: 9137

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X53.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 10-Oct-2024 22:47:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127401-004
 Misc. Info.: LCS
 Operator ID: KEL87800 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 11-Oct-2024 13:50:33 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1645

First Level Reviewer: FQ4L

Date: 11-Oct-2024 13:51:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.008	2.014	-0.006	99	230015	20.0	20.4	
7 Chloromethane	50	2.203	2.213	-0.010	100	225612	20.0	20.8	
8 Vinyl chloride	62	2.325	2.332	-0.007	97	225318	20.0	20.9	
9 Butadiene	39	2.341	2.358	-0.017	93	263786	20.0	24.2	
11 Bromomethane	94	2.681	2.695	-0.013	90	153229	20.0	20.0	
12 Chloroethane	64	2.768	2.781	-0.013	100	114207	20.0	21.2	
13 Dichlorofluoromethane	67	3.028	3.047	-0.019	98	298052	20.0	18.4	
14 Trichlorofluoromethane	101	3.095	3.108	-0.013	98	245663	20.0	19.0	M
15 Pentane	43	3.128	3.150	-0.022	98	192063	20.0	21.0	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.448	3.455	-0.007	93	157421	20.0	20.0	
19 Acrolein	56	3.522	3.545	-0.023	98	313565	150.3	191.6	
21 1,1-Dichloroethene	96	3.676	3.699	-0.023	98	127023	20.0	24.3	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.702	3.715	-0.013	79	132076	20.0	20.6	
20 Acetone	58	3.712	3.731	-0.019	100	265791	250.0	270.7	
25 Iodomethane	142	3.878	3.901	-0.023	98	215134	20.0	20.4	
23 Isopropyl alcohol	45	3.907	3.914	-0.007	44	87673	150.0	87.2	
26 Carbon disulfide	76	4.007	4.020	-0.013	100	388872	20.0	21.4	
28 Methyl acetate	43	4.142	4.155	-0.013	96	142452	20.0	21.2	M
27 3-Chloro-1-propene	41	4.161	4.183	-0.022	94	142368	20.0	18.7	
30 Methylene Chloride	84	4.376	4.389	-0.013	93	133500	20.0	22.1	
* 32 t-Butyl alcohol-d10 (IS)	65	4.411	4.408	0.003	51	322031	250.0	250.0	
33 2-Methyl-2-propanol	59	4.511	4.533	-0.022	96	273955	200.0	192.2	
34 Acrylonitrile	53	4.726	4.739	-0.013	99	372843	100.0	105.1	
36 Methyl tert-butyl ether	73	4.783	4.793	-0.010	93	355219	20.0	19.2	
35 trans-1,2-Dichloroethene	96	4.780	4.796	-0.016	99	109661	20.0	22.0	
37 Hexane	57	5.207	5.226	-0.019	93	130614	20.0	20.7	
38 1,1-Dichloroethane	63	5.454	5.470	-0.016	96	192205	20.0	22.6	
40 Isopropyl ether	45	5.505	5.525	-0.020	94	327239	20.0	19.7	
41 2-Chloro-1,3-butadiene	53	5.566	5.579	-0.013	90	150866	20.0	19.6	
42 Tert-butyl ethyl ether	59	6.044	6.067	-0.023	97	329728	20.0	18.7	
44 2-Butanone (MEK)	43	6.263	6.279	-0.016	99	1220522	250.0	256.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 cis-1,2-Dichloroethene	96	6.295	6.301	-0.006	82	122509	20.0	21.5	
45 2,2-Dichloropropane	77	6.311	6.330	-0.019	86	186386	20.0	20.2	
47 Propionitrile	54	6.365	6.378	-0.013	99	265974	150.0	165.8	
49 Methacrylonitrile	67	6.574	6.584	-0.010	92	549856	150.0	157.8	
50 Chlorobromomethane	128	6.628	6.632	-0.004	91	60994	20.0	20.5	
51 Tetrahydrofuran	71	6.635	6.648	-0.013	82	141227	100.0	100.9	
52 Chloroform	83	6.773	6.786	-0.013	94	184278	20.0	22.0	
\$ 54 Dibromofluoromethane (Surr)	113	6.988	6.998	-0.010	93	248339	50.0	51.6	
55 1,1,1-Trichloroethane	97	7.004	7.014	-0.010	97	194775	20.0	21.9	
56 Cyclohexane	56	7.097	7.107	-0.010	90	208710	20.0	19.7	
58 Carbon tetrachloride	117	7.209	7.216	-0.007	92	163759	20.0	22.1	
57 1,1-Dichloropropene	75	7.219	7.229	-0.010	96	155667	20.0	21.1	
59 Isobutyl alcohol	41	7.386	7.392	-0.006	92	236362	500.0	497.5	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.450	7.457	-0.007	77	61217	50.0	48.8	
61 Benzene	78	7.479	7.489	-0.010	97	449369	20.0	21.3	
62 1,2-Dichloroethane	62	7.556	7.562	-0.006	98	147279	20.0	22.1	
64 Tert-amyl methyl ether	73	7.668	7.678	-0.010	99	316958	20.0	18.4	
* 65 Fluorobenzene (IS)	96	7.883	7.890	-0.007	98	1001552	50.0	50.0	
66 n-Heptane	43	7.886	7.903	-0.017	44	115520	20.0	20.5	
67 n-Butanol	56	8.259	8.262	-0.003	90	351091	1000.0	992.9	
68 Trichloroethene	95	8.358	8.365	-0.007	97	115618	20.0	20.6	
70 Methylcyclohexane	83	8.666	8.673	-0.007	89	187670	20.0	19.2	
72 2-ethoxy-2-methyl butane	87	8.701	8.702	-0.001	92	152277	20.0	18.5	
71 1,2-Dichloropropane	63	8.698	8.708	-0.010	75	114407	20.0	21.4	
74 Methyl methacrylate	69	8.782	8.785	-0.003	91	94574	20.0	18.4	
75 1,4-Dioxane	88	8.801	8.795	0.006	51	51280	500.0	509.2	
73 Dibromomethane	93	8.807	8.820	-0.013	96	74363	20.0	20.6	
77 Dichlorobromomethane	83	9.042	9.048	-0.006	99	131130	20.0	21.3	
78 2-Nitropropane	41	9.321	9.324	-0.003	95	37207	20.0	16.3	
79 2-Chloroethyl vinyl ether	63	9.398	9.404	-0.006	91	78028	20.0	20.6	
81 cis-1,3-Dichloropropene	75	9.577	9.584	-0.007	96	152583	20.0	18.5	
83 4-Methyl-2-pentanone (MIBK)	43	9.757	9.757	0.000	96	2535280	250.0	278.0	
\$ 84 Toluene-d8 (Surr)	98	9.885	9.886	-0.001	93	1029809	50.0	49.5	
85 Toluene	92	9.956	9.959	-0.003	98	277400	20.0	20.1	
86 trans-1,3-Dichloropropene	75	10.213	10.213	0.000	92	142780	20.0	18.4	
87 Ethyl methacrylate	69	10.271	10.271	0.000	89	164195	20.0	17.7	
88 1,1,2-Trichloroethane	97	10.412	10.412	0.000	91	103559	20.0	19.8	
90 Tetrachloroethene	166	10.495	10.499	-0.004	97	118626	20.0	20.7	
91 1,3-Dichloropropane	76	10.575	10.576	-0.001	90	171635	20.0	19.9	
94 2-Hexanone	43	10.627	10.627	0.000	96	1770339	250.0	263.5	
96 Chlorodibromomethane	129	10.787	10.784	0.003	91	104354	20.0	19.6	
98 Ethylene Dibromide	107	10.896	10.896	0.000	97	115221	20.0	20.3	
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.323	0.000	85	787661	50.0	50.0	
103 1-Chlorohexane	91	11.326	11.330	-0.004	77	137747	20.0	18.5	
102 Chlorobenzene	112	11.349	11.349	0.000	97	315174	20.0	20.2	
104 1,1,1,2-Tetrachloroethane	131	11.426	11.432	-0.006	92	117762	20.0	20.0	
105 Ethylbenzene	91	11.432	11.432	0.000	98	559046	20.0	20.1	
106 m-Xylene & p-Xylene	106	11.544	11.548	-0.004	98	436967	40.0	39.8	
108 o-Xylene	106	11.875	11.875	0.000	96	224403	20.0	19.6	
109 Styrene	104	11.888	11.888	0.000	95	341176	20.0	19.5	
110 Bromoform	173	12.042	12.048	-0.006	96	79706	20.0	19.4	
111 Isopropylbenzene	105	12.170	12.170	0.000	95	589581	20.0	22.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 114 4-Bromofluorobenzene (Surr)	95	12.315	12.312	0.003	91	379150	50.0	48.5	
116 1,1,2,2-Tetrachloroethane	83	12.417	12.418	-0.001	96	214651	20.0	20.8	
115 Bromobenzene	156	12.430	12.434	-0.004	96	139211	20.0	19.8	
119 trans-1,4-Dichloro-2-butene	53	12.443	12.443	0.000	91	211616	100.0	77.7	
118 1,2,3-Trichloropropane	110	12.465	12.466	-0.001	85	64633	20.0	20.1	
120 N-Propylbenzene	91	12.498	12.501	-0.003	99	669737	20.0	20.5	
121 2-Chlorotoluene	126	12.578	12.578	0.000	97	140017	20.0	19.5	
122 1,3,5-Trimethylbenzene	105	12.632	12.633	0.000	94	471070	20.0	19.4	
123 4-Chlorotoluene	126	12.671	12.668	0.003	97	137234	20.0	20.0	
125 tert-Butylbenzene	134	12.873	12.876	-0.003	93	89000	20.0	19.5	
127 1,2,4-Trimethylbenzene	105	12.915	12.918	-0.003	97	490888	20.0	19.5	
128 sec-Butylbenzene	105	13.037	13.040	-0.003	94	576455	20.0	19.7	
131 1,3-Dichlorobenzene	146	13.136	13.136	0.000	98	261679	20.0	19.9	
132 4-Isopropyltoluene	119	13.143	13.146	-0.003	98	502516	20.0	19.4	
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.191	0.003	94	453340	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.210	13.213	-0.003	95	271804	20.0	20.2	
148 1,2,3-Trimethylbenzene	105	13.220	13.223	-0.003	98	508089	20.0	18.8	
170 Benzyl chloride	91	13.287	13.290	-0.003	98	350507	20.0	17.4	
171 1,3-Diethylbenzene	119	13.345	13.345	0.000	95	295545	20.0	19.6	
172 p-Diethylbenzene	119	13.415	13.415	0.000	94	305575	20.0	19.4	
173 n-Butylbenzene	92	13.438	13.435	0.003	97	243534	20.0	20.0	
174 1,2-Dichlorobenzene	146	13.473	13.473	0.000	98	285323	20.0	20.3	
175 o-diethylbenzene	119	13.489	13.489	0.000	95	243299	20.0	19.0	
176 1,2-Dibromo-3-Chloropropane	75	14.012	14.016	-0.004	87	57877	20.0	18.8	
177 1,3,5-Trichlorobenzene	180	14.137	14.137	0.000	97	197172	20.0	20.0	
179 1,2,4-Trichlorobenzene	180	14.561	14.564	-0.003	95	199012	20.0	19.9	
180 Hexachlorobutadiene	225	14.644	14.644	0.000	97	67276	20.0	20.5	
182 Naphthalene	128	14.747	14.747	0.000	97	845926	20.0	19.9	
183 1,2,3-Trichlorobenzene	180	14.891	14.892	-0.001	96	212537	20.0	20.5	
184 2-Methylnaphthalene	142	15.533	15.533	0.000	94	441151	20.0	21.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00188

Amount Added: 50.00

Units: uL

MSV_LCS_Gases_00219

Amount Added: 50.00

Units: uL

MSV_LCS_ACROL_00192

Amount Added: 50.00

Units: uL

MSV_LCS_2CEVE_00193

Amount Added: 50.00

Units: uL

MSV_Cent_ISSS_00030

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 11-Oct-2024 13:51:35

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X53.D

Injection Date: 10-Oct-2024 22:47:30

Instrument ID: 9137

Operator ID: KEL87800

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

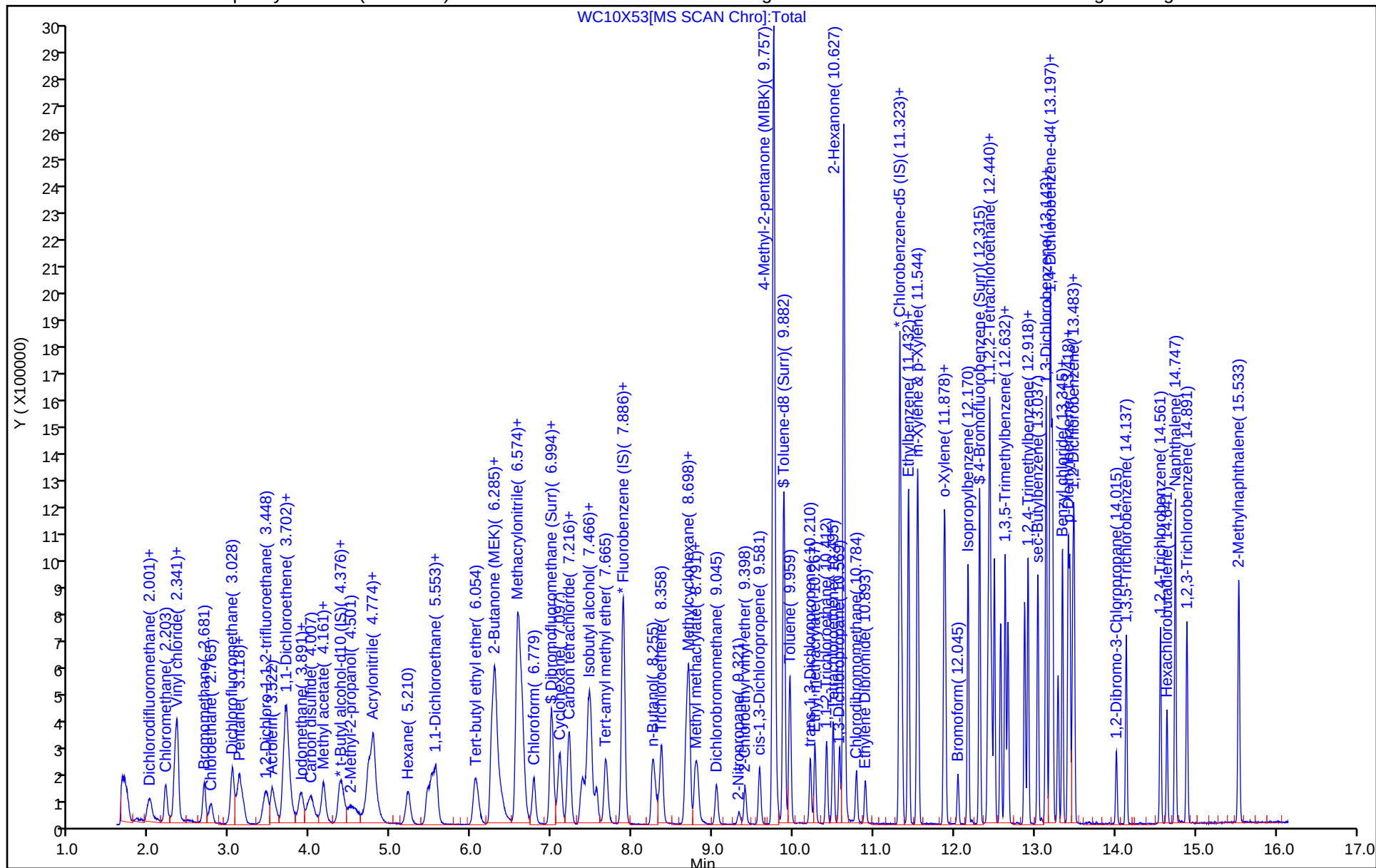
ALS Bottle#: 3

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X53.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 10-Oct-2024 22:47:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127401-004
Misc. Info.: LCS
Operator ID: KEL87800 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2024 13:50:33 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1645

First Level Reviewer: FQ4L

Date: 11-Oct-2024 13:51:34

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	51.6	103.24
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	48.8	97.55
\$ 84 Toluene-d8 (Surr)	50.0	49.5	99.02
\$ 114 4-Bromofluorobenzene (Surr)	50.0	48.5	96.99

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 410-562572/5

Matrix: Water

Lab File ID: WC13X04.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 5(mL)

Date Analyzed: 10/13/2024 20:42

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 562572

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	19.3		1.0	0.30
71-55-6	1,1,1-Trichloroethane	18.6		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	18.8		1.0	0.30
79-00-5	1,1,2-Trichloroethane	18.3		1.0	0.30
75-34-3	1,1-Dichloroethane	19.9		1.0	0.30
75-35-4	1,1-Dichloroethene	20.1		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	18.0		1.0	0.20
107-06-2	1,2-Dichloroethane	18.8		1.0	0.30
78-87-5	1,2-Dichloropropane	18.4		1.0	0.30
78-93-3	2-Butanone (MEK)	225		10	0.50
591-78-6	2-Hexanone	244		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	243		10	0.50
67-64-1	Acetone	267		20	0.70
71-43-2	Benzene	18.3		1.0	0.30
74-97-5	Bromochloromethane	19.1		5.0	0.20
75-27-4	Bromodichloromethane	18.7		1.0	0.20
75-25-2	Bromoform	18.1		4.0	1.0
74-83-9	Bromomethane	14.2		1.0	0.30
75-15-0	Carbon disulfide	17.3		5.0	0.30
56-23-5	Carbon tetrachloride	19.3		1.0	0.30
108-90-7	Chlorobenzene	18.4		1.0	0.30
75-00-3	Chloroethane	16.3		1.0	0.30
67-66-3	Chloroform	19.3		1.0	0.30
74-87-3	Chloromethane	13.8		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	19.0		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	15.5		1.0	0.20
124-48-1	Dibromochloromethane	18.5		1.0	0.20
100-41-4	Ethylbenzene	18.6		1.0	0.40
1634-04-4	Methyl tert-butyl ether	16.9		1.0	0.20
75-09-2	Methylene Chloride	18.9		1.0	0.30
100-42-5	Styrene	17.8		5.0	0.30
127-18-4	Tetrachloroethene	18.9		1.0	0.30

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	Job No.: 410-191672-1
SDG No.:	
Client Sample ID:	Lab Sample ID: LCS 410-562572/5
Matrix: Water	Lab File ID: WC13X04.D
Analysis Method: 8260D	Date Collected:
Sample wt/vol: 5(mL)	Date Analyzed: 10/13/2024 20:42
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: R-624SilMS 30m ID: 0.25 (mm)
Purge Volume: 5.0 (mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 562572	Units: ug/L
Preparation Batch No.:	Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	18.1		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	19.8		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	16.7		1.0	0.20
79-01-6	Trichloroethene	17.8		1.0	0.30
75-01-4	Vinyl chloride	14.1		1.0	0.30
1330-20-7	Xylenes, Total	54.8		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		80-120
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X04.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 13-Oct-2024 20:42:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127582-005
 Misc. Info.: LCS
 Operator ID: gaw91131 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 13-Oct-2024 23:14:56 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1675

First Level Reviewer: JS6E

Date: 13-Oct-2024 21:30:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.014	2.011	0.003	99	150671	20.0	10.7	
7 Chloromethane	50	2.216	2.219	-0.003	100	185822	20.0	13.8	
8 Vinyl chloride	62	2.335	2.335	0.000	98	188813	20.0	14.1	
9 Butadiene	39	2.358	2.361	-0.003	92	289358	20.0	21.3	
11 Bromomethane	94	2.694	2.694	0.000	91	135413	20.0	14.2	
12 Chloroethane	64	2.781	2.781	0.000	99	109251	20.0	16.3	
13 Dichlorofluoromethane	67	3.044	3.047	-0.003	98	286192	20.0	14.2	
14 Trichlorofluoromethane	101	3.118	3.111	0.007	96	220988	20.0	13.7	
15 Pentane	43	3.141	3.147	-0.006	98	188103	20.0	16.5	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.461	3.464	-0.003	94	158303	20.0	16.2	
19 Acrolein	56	3.542	3.541	0.001	100	282516	150.3	153.4	
21 1,1-Dichloroethene	96	3.696	3.696	0.000	97	130443	20.0	20.1	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.728	3.721	0.007	64	132264	20.0	16.6	
20 Acetone	58	3.728	3.724	0.004	100	294670	250.0	266.7	
25 Iodomethane	142	3.901	3.904	-0.003	98	222269	20.0	16.9	
23 Isopropyl alcohol	45	3.885	3.920	-0.035	37	97750	150.0	86.4	
26 Carbon disulfide	76	4.020	4.020	0.000	99	392635	20.0	17.3	
28 Methyl acetate	43	4.151	4.158	-0.007	97	171429	20.0	20.5	
27 3-Chloro-1-propene	41	4.183	4.180	0.003	93	162669	20.0	17.2	
30 Methylene Chloride	84	4.386	4.382	0.004	92	141861	20.0	18.9	
* 32 t-Butyl alcohol-d10 (IS)	65	4.434	4.389	0.045	54	362420	250.0	250.0	
33 2-Methyl-2-propanol	59	4.562	4.536	0.026	97	259790	200.0	162.0	
34 Acrylonitrile	53	4.742	4.742	0.000	100	413391	100.0	93.8	
35 trans-1,2-Dichloroethene	96	4.796	4.793	0.003	99	122497	20.0	19.8	
36 Methyl tert-butyl ether	73	4.790	4.799	-0.009	89	388903	20.0	16.9	
37 Hexane	57	5.233	5.229	0.004	91	135600	20.0	17.3	
38 1,1-Dichloroethane	63	5.470	5.467	0.003	96	209685	20.0	19.9	
40 Isopropyl ether	45	5.522	5.528	-0.006	97	360608	20.0	17.5	
41 2-Chloro-1,3-butadiene	53	5.583	5.579	0.004	89	161329	20.0	16.9	
42 Tert-butyl ethyl ether	59	6.067	6.060	0.007	97	369019	20.0	16.9	
44 2-Butanone (MEK)	43	6.269	6.285	-0.016	99	1335323	250.0	225.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 cis-1,2-Dichloroethene	96	6.301	6.304	-0.003	83	134452	20.0	19.0	
45 2,2-Dichloropropane	77	6.321	6.320	0.001	87	202331	20.0	17.6	
47 Propionitrile	54	6.382	6.381	0.001	99	290158	150.0	160.8	
49 Methacrylonitrile	67	6.587	6.596	-0.009	90	611841	150.0	141.3	
50 Chlorobromomethane	128	6.632	6.638	-0.006	91	70534	20.0	19.1	
51 Tetrahydrofuran	71	6.661	6.654	0.007	79	157751	100.0	100.2	
52 Chloroform	83	6.786	6.786	0.000	94	201402	20.0	19.3	
\$ 54 Dibromofluoromethane (Surr)	113	7.001	7.001	0.000	93	315035	50.0	52.7	
55 1,1,1-Trichloroethane	97	7.020	7.020	0.000	98	206099	20.0	18.6	
56 Cyclohexane	56	7.110	7.107	0.003	89	220582	20.0	16.8	
58 Carbon tetrachloride	117	7.219	7.219	0.000	88	177815	20.0	19.3	
57 1,1-Dichloropropene	75	7.225	7.225	0.000	95	165105	20.0	18.0	
59 Isobutyl alcohol	41	7.396	7.389	0.007	98	243771	500.0	455.9	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.460	7.460	0.000	76	81967	50.0	52.5	
61 Benzene	78	7.489	7.488	0.001	97	479987	20.0	18.3	
62 1,2-Dichloroethane	62	7.562	7.562	0.000	98	155639	20.0	18.8	
64 Tert-amyl methyl ether	73	7.681	7.675	0.006	99	351602	20.0	16.4	
* 65 Fluorobenzene (IS)	96	7.896	7.896	0.000	98	1244886	50.0	50.0	
66 n-Heptane	43	7.899	7.899	0.000	44	122633	20.0	17.5	
67 n-Butanol	56	8.262	8.265	-0.003	88	366471	1000.0	920.9	
68 Trichloroethene	95	8.374	8.371	0.003	99	123957	20.0	17.8	
70 Methylcyclohexane	83	8.676	8.676	0.000	91	198092	20.0	16.3	
71 1,2-Dichloropropane	63	8.711	8.708	0.003	70	122708	20.0	18.4	
72 2-ethoxy-2-methyl butane	87	8.714	8.711	0.003	94	166401	20.0	16.3	
74 Methyl methacrylate	69	8.788	8.785	0.003	92	103347	20.0	16.2	
75 1,4-Dioxane	88	8.801	8.798	0.003	58	51371	500.0	453.2	
73 Dibromomethane	93	8.817	8.820	-0.003	96	81776	20.0	18.2	
77 Dichlorobromomethane	83	9.048	9.051	-0.003	99	143450	20.0	18.7	
78 2-Nitropropane	41	9.327	9.330	-0.003	99	43911	20.0	17.1	
79 2-Chloroethyl vinyl ether	63	9.404	9.407	-0.003	90	82127	20.0	17.5	
81 cis-1,3-Dichloropropene	75	9.587	9.587	0.000	97	158933	20.0	15.5	
83 4-Methyl-2-pentanone (MIBK)	43	9.761	9.760	0.001	96	2750900	250.0	242.7	
\$ 84 Toluene-d8 (Surr)	98	9.889	9.886	0.003	93	1237054	50.0	51.6	
85 Toluene	92	9.966	9.963	0.003	98	289037	20.0	18.1	
86 trans-1,3-Dichloropropene	75	10.216	10.216	0.000	92	149492	20.0	16.7	
87 Ethyl methacrylate	69	10.277	10.274	0.003	90	178893	20.0	16.7	
88 1,1,2-Trichloroethane	97	10.418	10.418	0.000	90	110819	20.0	18.3	
90 Tetrachloroethene	166	10.499	10.498	0.001	98	124965	20.0	18.9	
91 1,3-Dichloropropane	76	10.582	10.579	0.003	89	178427	20.0	18.0	
94 2-Hexanone	43	10.630	10.630	0.000	95	1891305	250.0	244.0	
96 Chlorodibromomethane	129	10.791	10.787	0.004	90	113853	20.0	18.5	
98 Ethylene Dibromide	107	10.896	10.900	-0.004	98	117787	20.0	18.0	
* 101 Chlorobenzene-d5 (IS)	117	11.326	11.326	0.000	85	908705	50.0	50.0	
103 1-Chlorohexane	91	11.330	11.333	-0.003	59	149649	20.0	17.4	
102 Chlorobenzene	112	11.352	11.352	0.000	96	331278	20.0	18.4	
104 1,1,1,2-Tetrachloroethane	131	11.432	11.432	0.000	92	131241	20.0	19.3	
105 Ethylbenzene	91	11.436	11.435	0.001	98	595918	20.0	18.6	
106 m-Xylene & p-Xylene	106	11.548	11.548	0.000	98	459492	40.0	36.3	
108 o-Xylene	106	11.878	11.875	0.003	96	244497	20.0	18.5	
109 Styrene	104	11.891	11.891	0.000	94	359070	20.0	17.8	
110 Bromoform	173	12.048	12.048	0.000	96	85646	20.0	18.1	
111 Isopropylbenzene	105	12.174	12.173	0.001	95	630203	20.0	20.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 114 4-Bromofluorobenzene (Surr)	95	12.318	12.318	0.000	90	443428	50.0	49.2	
116 1,1,2,2-Tetrachloroethane	83	12.421	12.421	0.000	96	216448	20.0	18.8	
115 Bromobenzene	156	12.437	12.437	0.000	97	146509	20.0	18.6	
119 trans-1,4-Dichloro-2-butene	53	12.443	12.443	0.000	87	152829	100.0	50.3	
118 1,2,3-Trichloropropane	110	12.466	12.469	-0.003	86	68478	20.0	19.1	
120 N-Propylbenzene	91	12.501	12.501	0.000	98	699884	20.0	19.2	
121 2-Chlorotoluene	126	12.578	12.578	0.000	97	150158	20.0	18.7	
122 1,3,5-Trimethylbenzene	105	12.636	12.636	0.000	96	502079	20.0	18.6	
123 4-Chlorotoluene	126	12.668	12.671	-0.003	97	138735	20.0	18.2	
125 tert-Butylbenzene	134	12.876	12.876	0.000	92	91289	20.0	17.9	
127 1,2,4-Trimethylbenzene	105	12.918	12.918	0.000	97	521005	20.0	18.6	
128 sec-Butylbenzene	105	13.040	13.040	0.000	94	617052	20.0	18.9	
131 1,3-Dichlorobenzene	146	13.140	13.139	0.001	98	272028	20.0	18.6	
132 4-Isopropyltoluene	119	13.146	13.146	0.000	97	519742	20.0	18.0	
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.194	0.000	95	505460	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.213	13.213	0.000	96	281435	20.0	18.8	
148 1,2,3-Trimethylbenzene	105	13.223	13.223	0.000	98	533396	20.0	17.7	
170 Benzyl chloride	91	13.294	13.290	0.004	98	391615	20.0	17.5	
171 1,3-Diethylbenzene	119	13.348	13.345	0.003	96	317952	20.0	19.0	
172 p-Diethylbenzene	119	13.415	13.419	-0.003	95	324047	20.0	18.4	
173 n-Butylbenzene	92	13.438	13.438	0.000	97	256391	20.0	18.8	
174 1,2-Dichlorobenzene	146	13.476	13.476	0.000	98	293265	20.0	18.8	
175 o-diethylbenzene	119	13.492	13.489	0.003	95	254841	20.0	17.9	
176 1,2-Dibromo-3-Chloropropane	75	14.016	14.015	0.001	87	60128	20.0	17.5	
177 1,3,5-Trichlorobenzene	180	14.137	14.141	-0.004	97	204280	20.0	18.6	
179 1,2,4-Trichlorobenzene	180	14.564	14.564	0.000	94	209541	20.0	18.8	
180 Hexachlorobutadiene	225	14.644	14.644	0.000	97	67482	20.0	18.4	
182 Naphthalene	128	14.747	14.747	0.000	96	877219	20.0	18.5	
183 1,2,3-Trichlorobenzene	180	14.895	14.895	0.000	95	211278	20.0	18.3	
184 2-Methylnaphthalene	142	15.540	15.536	0.004	92	439394	20.0	19.3	

QC Flag Legend

Processing Flags

Reagents:

MSV_LCS_VOC#1_00188	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00219	Amount Added: 50.00	Units: uL	
MSV_LCS_ACROL_00192	Amount Added: 50.00	Units: uL	
MSV_LCS_2CEVE_00193	Amount Added: 50.00	Units: uL	
MSV_Cent_ISSS_00030	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 13-Oct-2024 23:24:18

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X04.D

Injection Date: 13-Oct-2024 20:42:30

Instrument ID: 9137

Operator ID: gaw91131

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

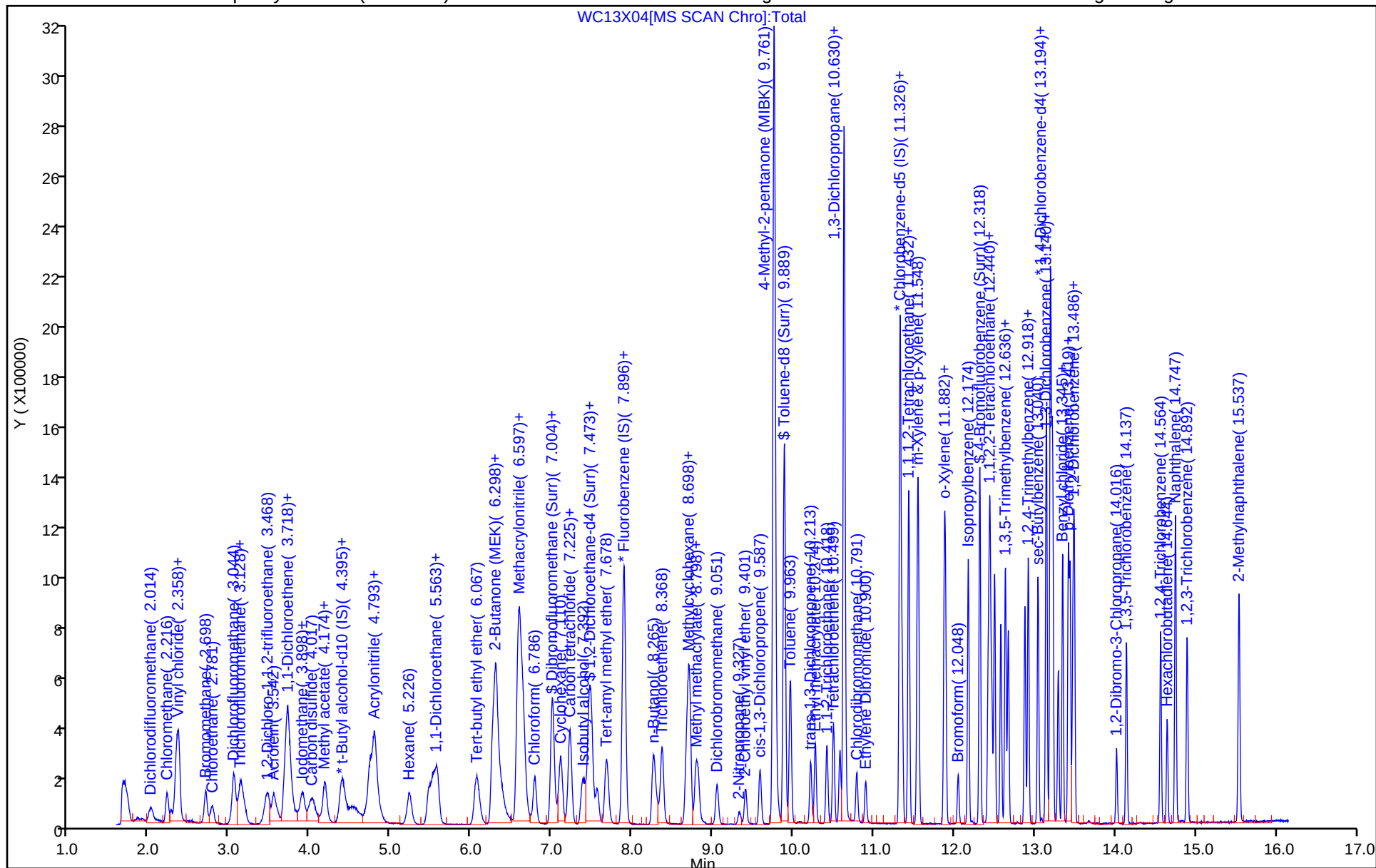
ALS Bottle#: 4

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X04.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 13-Oct-2024 20:42:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127582-005
Misc. Info.: LCS
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 13-Oct-2024 23:14:56 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1675

First Level Reviewer: JS6E

Date: 13-Oct-2024 21:30:33

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	52.7	105.37
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	52.5	105.08
\$ 84 Toluene-d8 (Surr)	50.0	51.6	103.11
\$ 114 4-Bromofluorobenzene (Surr)	50.0	49.2	98.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCSD 410-562572/6

Matrix: Water

Lab File ID: WC13X05.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 5 (mL)

Date Analyzed: 10/13/2024 21:04

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 562572

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	18.3		1.0	0.30
71-55-6	1,1,1-Trichloroethane	18.4		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	18.9		1.0	0.30
79-00-5	1,1,2-Trichloroethane	18.3		1.0	0.30
75-34-3	1,1-Dichloroethane	18.9		1.0	0.30
75-35-4	1,1-Dichloroethene	19.6		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	18.2		1.0	0.20
107-06-2	1,2-Dichloroethane	18.5		1.0	0.30
78-87-5	1,2-Dichloropropane	17.9		1.0	0.30
78-93-3	2-Butanone (MEK)	230		10	0.50
591-78-6	2-Hexanone	249		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	245		10	0.50
67-64-1	Acetone	241		20	0.70
71-43-2	Benzene	17.8		1.0	0.30
74-97-5	Bromochloromethane	17.8		5.0	0.20
75-27-4	Bromodichloromethane	18.2		1.0	0.20
75-25-2	Bromoform	18.3		4.0	1.0
74-83-9	Bromomethane	14.2		1.0	0.30
75-15-0	Carbon disulfide	17.0		5.0	0.30
56-23-5	Carbon tetrachloride	18.7		1.0	0.30
108-90-7	Chlorobenzene	18.2		1.0	0.30
75-00-3	Chloroethane	15.7		1.0	0.30
67-66-3	Chloroform	18.3		1.0	0.30
74-87-3	Chloromethane	13.6		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	18.1		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	16.0		1.0	0.20
124-48-1	Dibromochloromethane	18.1		1.0	0.20
100-41-4	Ethylbenzene	18.4		1.0	0.40
1634-04-4	Methyl tert-butyl ether	16.8		1.0	0.20
75-09-2	Methylene Chloride	18.4		1.0	0.30
100-42-5	Styrene	17.5		5.0	0.30
127-18-4	Tetrachloroethene	18.8		1.0	0.30

FORM I

GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No. :

Client Sample ID:

Lab Sample ID: LCSD 410-562572/6

Matrix: Water

Lab File ID: WC13X05.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 5 (mL)

Date Analyzed: 10/13/2024 21:04

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 562572

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	18.2		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	18.6		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	17.2		1.0	0.20
79-01-6	Trichloroethene	17.2		1.0	0.30
75-01-4	Vinyl chloride	14.1		1.0	0.30
1330-20-7	Xylenes, Total	54.4		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X05.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 13-Oct-2024 21:04:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127582-006
 Misc. Info.: LCSD
 Operator ID: gaw91131 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 13-Oct-2024 23:14:56 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1675

First Level Reviewer: JS6E

Date: 13-Oct-2024 21:35:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.005	2.011	-0.006	99	147073	20.0	10.7	
7 Chloromethane	50	2.200	2.219	-0.019	100	180199	20.0	13.6	
8 Vinyl chloride	62	2.322	2.335	-0.013	98	185030	20.0	14.1	
9 Butadiene	39	2.342	2.361	-0.019	93	263219	20.0	19.8	
11 Bromomethane	94	2.682	2.694	-0.012	90	132985	20.0	14.2	
12 Chloroethane	64	2.772	2.781	-0.009	99	103336	20.0	15.7	
13 Dichlorofluoromethane	67	3.035	3.047	-0.012	97	278502	20.0	14.1	
14 Trichlorofluoromethane	101	3.096	3.111	-0.015	96	215351	20.0	13.7	
15 Pentane	43	3.118	3.147	-0.029	98	176700	20.0	15.9	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.449	3.464	-0.015	91	147583	20.0	15.4	
19 Acrolein	56	3.529	3.541	-0.012	99	282466	150.3	137.2	
21 1,1-Dichloroethene	96	3.686	3.696	-0.010	97	124789	20.0	19.6	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.702	3.721	-0.019	73	123184	20.0	15.8	
20 Acetone	58	3.699	3.724	-0.025	100	297098	250.0	240.5	
25 Iodomethane	142	3.885	3.904	-0.019	97	211210	20.0	16.4	
23 Isopropyl alcohol	45	3.879	3.920	-0.041	34	93694	150.0	74.1	
26 Carbon disulfide	76	4.004	4.020	-0.016	99	376707	20.0	17.0	
28 Methyl acetate	43	4.132	4.158	-0.026	99	158095	20.0	19.3	
27 3-Chloro-1-propene	41	4.167	4.180	-0.013	95	150972	20.0	16.3	
30 Methylene Chloride	84	4.373	4.382	-0.009	93	135274	20.0	18.4	
* 32 t-Butyl alcohol-d10 (IS)	65	4.379	4.389	-0.010	53	405175	250.0	250.0	
33 2-Methyl-2-propanol	59	4.540	4.536	0.004	99	251474	200.0	140.2	
34 Acrylonitrile	53	4.732	4.742	-0.010	97	411369	100.0	95.3	
35 trans-1,2-Dichloroethene	96	4.787	4.793	-0.006	99	113013	20.0	18.6	
36 Methyl tert-butyl ether	73	4.774	4.799	-0.025	90	378180	20.0	16.8	
37 Hexane	57	5.210	5.229	-0.019	93	125048	20.0	16.3	
38 1,1-Dichloroethane	63	5.454	5.467	-0.013	96	195026	20.0	18.9	
40 Isopropyl ether	45	5.522	5.528	-0.006	94	345296	20.0	17.1	
41 2-Chloro-1,3-butadiene	53	5.570	5.579	-0.009	89	155785	20.0	16.7	
42 Tert-butyl ethyl ether	59	6.051	6.060	-0.009	96	356429	20.0	16.6	
44 2-Butanone (MEK)	43	6.260	6.285	-0.025	99	1336041	250.0	230.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 cis-1,2-Dichloroethene	96	6.301	6.304	-0.003	83	125953	20.0	18.1	
45 2,2-Dichloropropane	77	6.308	6.320	-0.012	84	195052	20.0	17.3	
47 Propionitrile	54	6.362	6.381	-0.019	97	290397	150.0	143.9	
49 Methacrylonitrile	67	6.577	6.596	-0.019	91	591770	150.0	139.5	
50 Chlorobromomethane	128	6.629	6.638	-0.009	93	64331	20.0	17.8	
51 Tetrahydrofuran	71	6.629	6.654	-0.025	81	158689	100.0	90.1	
52 Chloroform	83	6.780	6.786	-0.006	94	186742	20.0	18.3	
\$ 54 Dibromofluoromethane (Surr)	113	6.995	7.001	-0.006	94	302810	50.0	51.7	
55 1,1,1-Trichloroethane	97	7.011	7.020	-0.009	99	199539	20.0	18.4	
56 Cyclohexane	56	7.104	7.107	-0.003	89	207559	20.0	16.1	
58 Carbon tetrachloride	117	7.206	7.219	-0.013	97	168580	20.0	18.7	
57 1,1-Dichloropropene	75	7.222	7.225	-0.003	96	155465	20.0	17.3	
59 Isobutyl alcohol	41	7.380	7.389	-0.009	93	253536	500.0	424.2	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.453	7.460	-0.007	77	74261	50.0	48.6	
61 Benzene	78	7.476	7.488	-0.012	96	456790	20.0	17.8	
62 1,2-Dichloroethane	62	7.556	7.562	-0.006	97	150610	20.0	18.5	
64 Tert-amyl methyl ether	73	7.672	7.675	-0.003	98	347589	20.0	16.5	
* 65 Fluorobenzene (IS)	96	7.887	7.896	-0.009	99	1219060	50.0	50.0	
66 n-Heptane	43	7.896	7.899	-0.003	86	114966	20.0	16.8	
67 n-Butanol	56	8.256	8.265	-0.009	89	394363	1000.0	886.4	
68 Trichloroethene	95	8.358	8.371	-0.013	99	117756	20.0	17.2	
70 Methylcyclohexane	83	8.673	8.676	-0.003	91	186463	20.0	15.7	
71 1,2-Dichloropropane	63	8.708	8.708	0.000	70	116372	20.0	17.9	
72 2-ethoxy-2-methyl butane	87	8.702	8.711	-0.009	91	162372	20.0	16.2	
74 Methyl methacrylate	69	8.785	8.785	0.000	92	106025	20.0	17.0	
75 1,4-Dioxane	88	8.798	8.798	0.000	49	54549	500.0	430.5	
73 Dibromomethane	93	8.811	8.820	-0.009	97	78442	20.0	17.8	
77 Dichlorobromomethane	83	9.045	9.051	-0.006	99	136251	20.0	18.2	
78 2-Nitropropane	41	9.324	9.330	-0.006	98	40045	20.0	14.0	
79 2-Chloroethyl vinyl ether	63	9.398	9.407	-0.009	91	81397	20.0	17.7	
81 cis-1,3-Dichloropropene	75	9.584	9.587	-0.003	97	160443	20.0	16.0	
83 4-Methyl-2-pentanone (MIBK)	43	9.761	9.760	0.001	96	2723764	250.0	245.4	
\$ 84 Toluene-d8 (Surr)	98	9.883	9.886	-0.003	93	1230697	50.0	51.5	
85 Toluene	92	9.960	9.963	-0.003	98	287871	20.0	18.2	
86 trans-1,3-Dichloropropene	75	10.213	10.216	-0.003	92	152670	20.0	17.2	
87 Ethyl methacrylate	69	10.274	10.274	0.000	89	176609	20.0	16.6	
88 1,1,2-Trichloroethane	97	10.412	10.418	-0.006	90	110035	20.0	18.3	
90 Tetrachloroethene	166	10.495	10.498	-0.003	97	123720	20.0	18.8	
91 1,3-Dichloropropane	76	10.579	10.579	0.000	90	176418	20.0	17.9	
94 2-Hexanone	43	10.627	10.630	-0.003	96	1918343	250.0	248.7	
96 Chlorodibromomethane	129	10.787	10.787	0.000	91	110508	20.0	18.1	
98 Ethylene Dibromide	107	10.897	10.900	-0.003	98	118448	20.0	18.2	
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.326	-0.003	85	904417	50.0	50.0	
103 1-Chlorohexane	91	11.327	11.333	-0.006	97	144700	20.0	16.9	
102 Chlorobenzene	112	11.349	11.352	-0.003	96	326378	20.0	18.2	
104 1,1,1,2-Tetrachloroethane	131	11.432	11.432	0.000	93	123381	20.0	18.3	
105 Ethylbenzene	91	11.432	11.435	-0.003	98	586743	20.0	18.4	
106 m-Xylene & p-Xylene	106	11.548	11.548	0.000	98	454008	40.0	36.0	
108 o-Xylene	106	11.875	11.875	0.000	95	242780	20.0	18.4	
109 Styrene	104	11.891	11.891	0.000	94	351586	20.0	17.5	
110 Bromoform	173	12.045	12.048	-0.003	96	86457	20.0	18.3	
111 Isopropylbenzene	105	12.174	12.173	0.001	95	618469	20.0	20.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 114 4-Bromofluorobenzene (Surr)	95	12.318	12.318	0.000	90	443825	50.0	49.4	
116 1,1,2,2-Tetrachloroethane	83	12.421	12.421	0.000	96	216173	20.0	18.9	
115 Bromobenzene	156	12.434	12.437	-0.003	97	140225	20.0	18.0	
119 trans-1,4-Dichloro-2-butene	53	12.443	12.443	0.000	88	164979	100.0	54.8	
118 1,2,3-Trichloropropane	110	12.466	12.469	-0.003	85	68158	20.0	19.2	
120 N-Propylbenzene	91	12.501	12.501	0.000	99	682265	20.0	18.9	
121 2-Chlorotoluene	126	12.578	12.578	0.000	97	145338	20.0	18.3	
122 1,3,5-Trimethylbenzene	105	12.636	12.636	0.000	95	501743	20.0	18.7	
123 4-Chlorotoluene	126	12.671	12.671	0.000	97	138518	20.0	18.3	
125 tert-Butylbenzene	134	12.876	12.876	0.000	92	92082	20.0	18.3	
127 1,2,4-Trimethylbenzene	105	12.918	12.918	0.000	97	513366	20.0	18.5	
128 sec-Butylbenzene	105	13.040	13.040	0.000	94	601867	20.0	18.6	
131 1,3-Dichlorobenzene	146	13.140	13.139	0.001	97	263635	20.0	18.1	
132 4-Isopropyltoluene	119	13.146	13.146	0.000	97	518920	20.0	18.1	
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.194	0.000	95	501355	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.213	13.213	0.000	95	274262	20.0	18.4	
148 1,2,3-Trimethylbenzene	105	13.223	13.223	0.000	98	524385	20.0	17.5	
170 Benzyl chloride	91	13.290	13.290	0.000	98	391977	20.0	17.6	
171 1,3-Diethylbenzene	119	13.345	13.345	0.000	95	310264	20.0	18.6	
172 p-Diethylbenzene	119	13.416	13.419	-0.002	93	317549	20.0	18.2	
173 n-Butylbenzene	92	13.438	13.438	0.000	97	247822	20.0	18.4	
174 1,2-Dichlorobenzene	146	13.477	13.476	0.001	98	288964	20.0	18.6	
175 o-diethylbenzene	119	13.493	13.489	0.004	95	249878	20.0	17.7	
176 1,2-Dibromo-3-Chloropropane	75	14.012	14.015	-0.003	87	62566	20.0	18.4	
177 1,3,5-Trichlorobenzene	180	14.138	14.141	-0.003	98	199515	20.0	18.3	
179 1,2,4-Trichlorobenzene	180	14.564	14.564	0.000	95	204900	20.0	18.5	
180 Hexachlorobutadiene	225	14.645	14.644	0.001	97	65807	20.0	18.1	
182 Naphthalene	128	14.747	14.747	0.000	97	887387	20.0	18.9	
183 1,2,3-Trichlorobenzene	180	14.895	14.895	0.000	96	212980	20.0	18.6	
184 2-Methylnaphthalene	142	15.540	15.536	0.004	94	453319	20.0	20.0	

QC Flag Legend

Processing Flags

Reagents:

MSV_LCS_VOC#1_00188	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00219	Amount Added: 50.00	Units: uL	
MSV_LCS_ACROL_00192	Amount Added: 50.00	Units: uL	
MSV_LCS_2CEVE_00193	Amount Added: 50.00	Units: uL	
MSV_Cent_ISSS_00030	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 13-Oct-2024 23:24:21

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X05.D

Injection Date: 13-Oct-2024 21:04:30

Instrument ID: 9137

Operator ID: gaw91131

Lims ID: LCSD

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

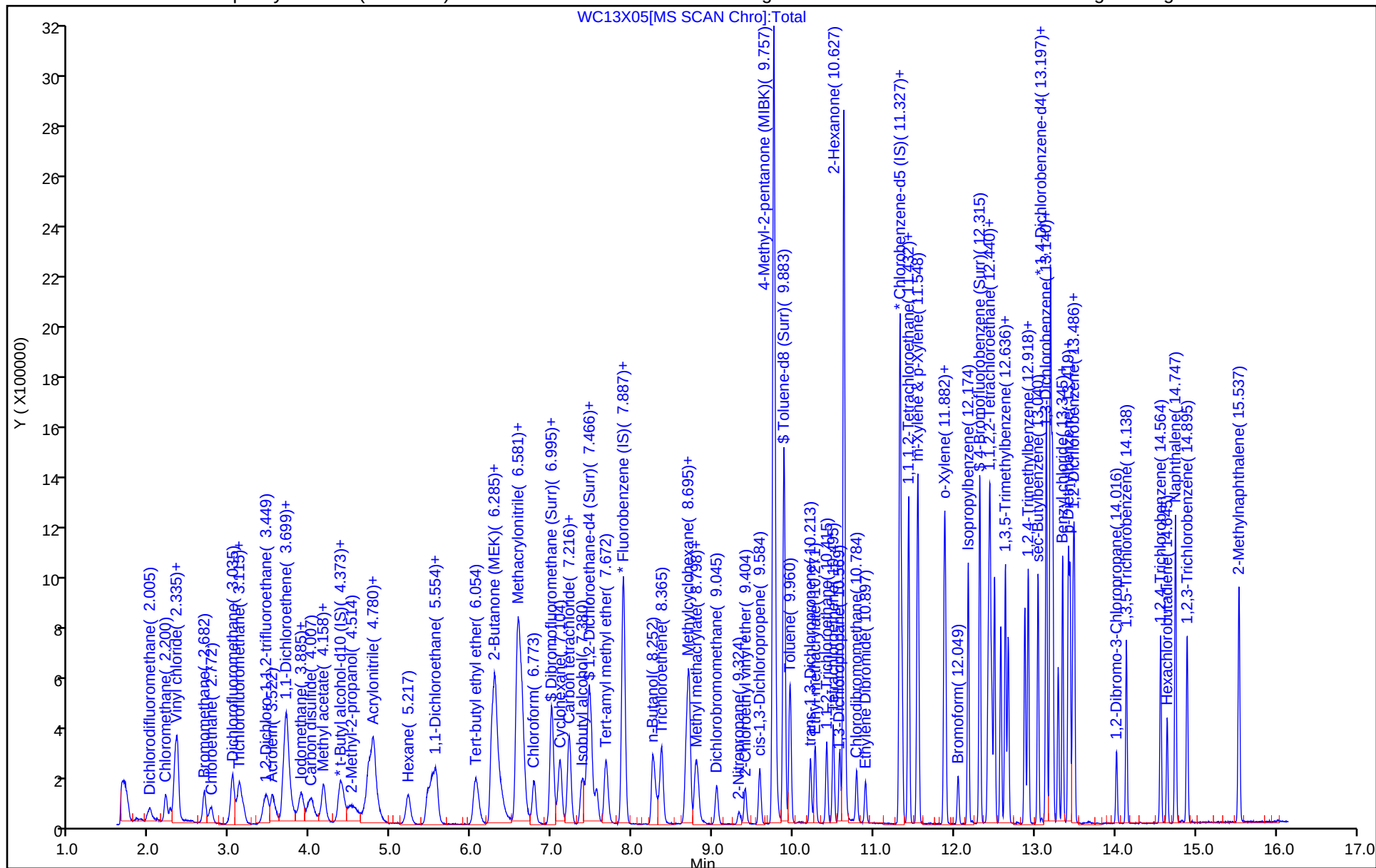
ALS Bottle#: 5

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\WC13X05.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 13-Oct-2024 21:04:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127582-006
Misc. Info.: LCSD
Operator ID: gaw91131 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241013-127582.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 13-Oct-2024 23:14:56 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1675

First Level Reviewer: JS6E

Date: 13-Oct-2024 21:35:09

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	51.7	103.43
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	48.6	97.22
\$ 84 Toluene-d8 (Surr)	50.0	51.5	103.06
\$ 114 4-Bromofluorobenzene (Surr)	50.0	49.4	98.88

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-MW-79-0/1-0 MS MS

Lab Sample ID: 410-191672-1 MS

Matrix: Water

Lab File ID: WC10X59.D

Analysis Method: 8260D

Date Collected: 10/08/2024 12:00

Sample wt/vol: 5(mL)

Date Analyzed: 10/11/2024 00:57

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 561893

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	21.4		1.0	0.30
71-55-6	1,1,1-Trichloroethane	24.5		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	19.9		1.0	0.30
79-00-5	1,1,2-Trichloroethane	20.4		1.0	0.30
75-34-3	1,1-Dichloroethane	26.1		1.0	0.30
75-35-4	1,1-Dichloroethene	26.3		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	20.3		1.0	0.20
107-06-2	1,2-Dichloroethane	22.8		1.0	0.30
78-87-5	1,2-Dichloropropane	23.2		1.0	0.30
78-93-3	2-Butanone (MEK)	252		10	0.50
591-78-6	2-Hexanone	262		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	274		10	0.50
67-64-1	Acetone	264		20	0.70
71-43-2	Benzene	23.2		1.0	0.30
74-97-5	Bromochloromethane	22.2		5.0	0.20
75-27-4	Bromodichloromethane	22.0		1.0	0.20
75-25-2	Bromoform	19.3		4.0	1.0
74-83-9	Bromomethane	21.5		1.0	0.30
75-15-0	Carbon disulfide	23.3		5.0	0.30
56-23-5	Carbon tetrachloride	24.9		1.0	0.30
108-90-7	Chlorobenzene	21.9		1.0	0.30
75-00-3	Chloroethane	22.7		1.0	0.30
67-66-3	Chloroform	23.8		1.0	0.30
74-87-3	Chloromethane	21.9		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	23.9		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	18.5		1.0	0.20
124-48-1	Dibromochloromethane	20.3		1.0	0.20
100-41-4	Ethylbenzene	22.1		1.0	0.40
1634-04-4	Methyl tert-butyl ether	19.0		1.0	0.20
75-09-2	Methylene Chloride	22.9		1.0	0.30
100-42-5	Styrene	19.6		5.0	0.30
127-18-4	Tetrachloroethene	23.3		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-MW-79-0/1-0 MS MS

Lab Sample ID: 410-191672-1 MS

Matrix: Water

Lab File ID: WC10X59.D

Analysis Method: 8260D

Date Collected: 10/08/2024 12:00

Sample wt/vol: 5 (mL)

Date Analyzed: 10/11/2024 00:57

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25 (mm)

Purge Volume: 5.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 561893

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	21.9		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	23.6		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	18.4		1.0	0.20
79-01-6	Trichloroethene	21.8		1.0	0.30
75-01-4	Vinyl chloride	22.9		1.0	0.30
1330-20-7	Xylenes, Total	63.9		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X59.D
 Lims ID: 410-191672-A-1 MS
 Client ID: HD-MW-79-0/1-0 MS
 Sample Type: MS
 Inject. Date: 11-Oct-2024 00:57:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127401-010
 Operator ID: KEL87800 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 11-Oct-2024 14:20:40 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1645

First Level Reviewer: FQ4L

Date: 11-Oct-2024 14:22:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.014	2.014	0.000	100	258689	20.0	24.1	
7 Chloromethane	50	2.207	2.213	-0.006	100	226529	20.0	21.9	
8 Vinyl chloride	62	2.329	2.332	-0.003	98	234424	20.0	22.9	
9 Butadiene	39	2.354	2.358	-0.004	92	289104	20.0	27.8	
11 Bromomethane	94	2.688	2.695	-0.006	91	156875	20.0	21.5	
12 Chloroethane	64	2.775	2.781	-0.006	99	116423	20.0	22.7	
13 Dichlorofluoromethane	67	3.044	3.047	-0.003	98	297932	20.0	19.3	
14 Trichlorofluoromethane	101	3.095	3.108	-0.013	98	264756	20.0	21.5	
15 Pentane	43	3.137	3.150	-0.013	96	213662	20.0	24.5	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.465	3.455	0.009	92	163408	20.0	21.9	
21 1,1-Dichloroethene	96	3.683	3.699	-0.016	99	130934	20.0	26.3	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.708	3.715	-0.007	79	148464	20.0	24.3	
20 Acetone	58	3.724	3.731	-0.007	100	247426	250.0	264.4	
25 Iodomethane	142	3.898	3.901	-0.003	99	216674	20.0	21.6	
23 Isopropyl alcohol	45	3.901	3.914	-0.013	36	70004	150.0	73.0	
26 Carbon disulfide	76	4.010	4.020	-0.010	99	403231	20.0	23.3	
28 Methyl acetate	43	4.142	4.155	-0.013	98	128475	20.0	20.1	
27 3-Chloro-1-propene	41	4.170	4.183	-0.013	94	150112	20.0	20.7	
30 Methylene Chloride	84	4.379	4.389	-0.010	96	131338	20.0	22.9	
* 32 t-Butyl alcohol-d10 (IS)	65	4.382	4.408	-0.026	51	306999	250.0	250.0	
33 2-Methyl-2-propanol	59	4.527	4.533	-0.006	95	231132	200.0	170.1	
34 Acrylonitrile	53	4.738	4.739	-0.001	99	356122	100.0	105.6	
36 Methyl tert-butyl ether	73	4.790	4.793	-0.003	88	335195	20.0	19.0	
35 trans-1,2-Dichloroethene	96	4.796	4.796	0.000	98	112096	20.0	23.6	
37 Hexane	57	5.223	5.226	-0.003	92	143577	20.0	23.9	
38 1,1-Dichloroethane	63	5.457	5.470	-0.013	97	210643	20.0	26.1	
40 Isopropyl ether	45	5.515	5.525	-0.010	96	318103	20.0	20.2	
41 2-Chloro-1,3-butadiene	53	5.576	5.579	-0.003	91	159617	20.0	21.8	
42 Tert-butyl ethyl ether	59	6.061	6.067	-0.007	97	314913	20.0	18.8	
44 2-Butanone (MEK)	43	6.263	6.279	-0.016	100	1142293	250.0	251.8	
43 cis-1,2-Dichloroethene	96	6.298	6.301	-0.003	81	129761	20.0	23.9	
45 2,2-Dichloropropane	77	6.317	6.330	-0.013	88	192668	20.0	21.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
47 Propionitrile	54	6.372	6.378	-0.006	99	240171	150.0	157.1	
49 Methacrylonitrile	67	6.584	6.584	0.000	91	516571	150.0	155.8	
50 Chlorobromomethane	128	6.632	6.632	0.000	94	62899	20.0	22.2	
51 Tetrahydrofuran	71	6.645	6.648	-0.003	79	132947	100.0	99.6	
52 Chloroform	83	6.783	6.786	-0.003	95	189899	20.0	23.8	
\$ 54 Dibromofluoromethane (Surr)	113	6.998	6.998	0.000	93	240773	50.0	52.6	
55 1,1,1-Trichloroethane	97	7.007	7.014	-0.007	97	207146	20.0	24.5	
56 Cyclohexane	56	7.100	7.107	-0.007	91	233852	20.0	23.2	
58 Carbon tetrachloride	117	7.219	7.216	0.003	94	175702	20.0	24.9	
57 1,1-Dichloropropene	75	7.222	7.229	-0.007	95	162902	20.0	23.2	
59 Isobutyl alcohol	41	7.386	7.392	-0.006	94	215923	500.0	476.8	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.453	7.457	-0.004	76	59125	50.0	49.5	
61 Benzene	78	7.482	7.489	-0.007	97	466062	20.0	23.2	
62 1,2-Dichloroethane	62	7.562	7.562	0.000	97	144651	20.0	22.8	
64 Tert-amyl methyl ether	73	7.671	7.678	-0.007	97	301392	20.0	18.3	
* 65 Fluorobenzene (IS)	96	7.890	7.890	0.000	99	952721	50.0	50.0	
66 n-Heptane	43	7.893	7.903	-0.010	91	128328	20.0	23.9	
67 n-Butanol	56	8.255	8.262	-0.007	89	307352	1000.0	911.8	
68 Trichloroethene	95	8.368	8.365	0.003	97	116576	20.0	21.8	
70 Methylcyclohexane	83	8.676	8.673	0.003	92	204232	20.0	22.0	
72 2-ethoxy-2-methyl butane	87	8.705	8.702	0.003	93	145578	20.0	18.6	
71 1,2-Dichloropropane	63	8.701	8.708	-0.007	75	118087	20.0	23.2	
74 Methyl methacrylate	69	8.782	8.785	-0.003	91	89455	20.0	18.3	
75 1,4-Dioxane	88	8.785	8.795	-0.010	42	44958	500.0	468.2	
73 Dibromomethane	93	8.817	8.820	-0.003	97	73657	20.0	21.4	
77 Dichlorobromomethane	83	9.045	9.048	-0.003	100	128775	20.0	22.0	
78 2-Nitropropane	41	9.330	9.324	0.006	99	34347	20.0	15.8	
81 cis-1,3-Dichloropropene	75	9.584	9.584	0.000	96	145055	20.0	18.5	
83 4-Methyl-2-pentanone (MIBK)	43	9.757	9.757	0.000	97	2374703	250.0	273.8	
\$ 84 Toluene-d8 (Surr)	98	9.886	9.886	0.000	93	978060	50.0	49.8	
85 Toluene	92	9.956	9.959	-0.003	98	286221	20.0	21.9	
86 trans-1,3-Dichloropropene	75	10.216	10.213	0.003	93	134704	20.0	18.4	
87 Ethyl methacrylate	69	10.271	10.271	0.000	90	153191	20.0	17.5	
88 1,1,2-Trichloroethane	97	10.415	10.412	0.003	91	101013	20.0	20.4	
90 Tetrachloroethene	166	10.495	10.499	-0.004	98	126174	20.0	23.3	
91 1,3-Dichloropropane	76	10.579	10.576	0.003	89	166319	20.0	20.4	
94 2-Hexanone	43	10.627	10.627	0.000	96	1665437	250.0	262.3	
96 Chlorodibromomethane	129	10.787	10.784	0.003	89	102251	20.0	20.3	
98 Ethylene Dibromide	107	10.896	10.896	0.000	98	108899	20.0	20.3	
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.323	0.000	85	744437	50.0	50.0	
103 1-Chlorohexane	91	11.330	11.330	0.000	96	144353	20.0	20.5	
102 Chlorobenzene	112	11.349	11.349	0.000	96	322659	20.0	21.9	
104 1,1,1,2-Tetrachloroethane	131	11.429	11.432	-0.003	95	119019	20.0	21.4	
105 Ethylbenzene	91	11.432	11.432	0.000	98	579801	20.0	22.1	
106 m-Xylene & p-Xylene	106	11.548	11.548	0.000	98	445406	40.0	43.0	
108 o-Xylene	106	11.875	11.875	0.000	96	226119	20.0	20.9	
109 Styrene	104	11.888	11.888	0.000	94	324208	20.0	19.6	
110 Bromoform	173	12.045	12.048	-0.003	96	74822	20.0	19.3	
111 Isopropylbenzene	105	12.170	12.170	0.000	96	601513	20.0	24.4	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.315	12.312	0.003	89	363403	50.0	49.2	
116 1,1,2,2-Tetrachloroethane	83	12.417	12.418	-0.001	95	197625	20.0	19.9	
115 Bromobenzene	156	12.433	12.434	-0.001	94	138940	20.0	20.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 trans-1,4-Dichloro-2-butene	53	12.443	12.443	0.000	91	190599	100.0	72.8	
118 1,2,3-Trichloropropane	110	12.462	12.466	-0.004	86	59657	20.0	19.3	
120 N-Propylbenzene	91	12.498	12.501	-0.003	99	693191	20.0	22.0	
121 2-Chlorotoluene	126	12.578	12.578	0.000	97	142923	20.0	20.7	
122 1,3,5-Trimethylbenzene	105	12.632	12.633	0.000	94	480697	20.0	20.6	
123 4-Chlorotoluene	126	12.671	12.668	0.003	96	136109	20.0	20.7	
125 tert-Butylbenzene	134	12.873	12.876	-0.003	92	88337	20.0	20.1	
127 1,2,4-Trimethylbenzene	105	12.915	12.918	-0.003	97	490008	20.0	20.3	
128 sec-Butylbenzene	105	13.040	13.040	0.000	94	590765	20.0	21.0	
131 1,3-Dichlorobenzene	146	13.139	13.136	0.003	97	262884	20.0	20.8	
132 4-Isopropyltoluene	119	13.143	13.146	-0.003	97	505113	20.0	20.3	
* 133 1,4-Dichlorobenzene-d4	152	13.191	13.191	0.000	95	435735	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.210	13.213	-0.003	95	264837	20.0	20.5	
148 1,2,3-Trimethylbenzene	105	13.223	13.223	0.000	98	503614	20.0	19.4	
170 Benzyl chloride	91	13.290	13.290	0.000	98	322917	20.0	16.7	
171 1,3-Diethylbenzene	119	13.345	13.345	0.000	95	296789	20.0	20.5	
172 p-Diethylbenzene	119	13.415	13.415	0.000	95	307251	20.0	20.2	
173 n-Butylbenzene	92	13.435	13.435	0.000	97	246560	20.0	21.0	
174 1,2-Dichlorobenzene	146	13.470	13.473	-0.003	98	278504	20.0	20.7	
175 o-diethylbenzene	119	13.489	13.489	0.000	95	246668	20.0	20.1	
176 1,2-Dibromo-3-Chloropropane	75	14.012	14.016	-0.004	86	52663	20.0	17.8	
177 1,3,5-Trichlorobenzene	180	14.137	14.137	0.000	98	192602	20.0	20.4	
179 1,2,4-Trichlorobenzene	180	14.561	14.564	-0.003	94	187260	20.0	19.5	
180 Hexachlorobutadiene	225	14.644	14.644	0.000	97	65342	20.0	20.7	
182 Naphthalene	128	14.747	14.747	0.000	97	766879	20.0	18.8	
183 1,2,3-Trichlorobenzene	180	14.888	14.892	-0.004	95	195214	20.0	19.6	
184 2-Methylnaphthalene	142	15.533	15.533	0.000	92	371230	20.0	18.9	

QC Flag Legend

Processing Flags

Reagents:

MSV_LCS_VOC#1_00188

Amount Added: 21.50

Units: uL

MSV_LCS_Gases_00219

Amount Added: 21.50

Units: uL

MSV_Cent_ISSS_00030

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 11-Oct-2024 14:22:54

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X59.D

Injection Date: 11-Oct-2024 00:57:30

Instrument ID: 9137

Operator ID: KEL87800

Lims ID: 410-191672-A-1 MS

Worklist Smp#: 10

Client ID: HD-MW-79-0/1-0 MS

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

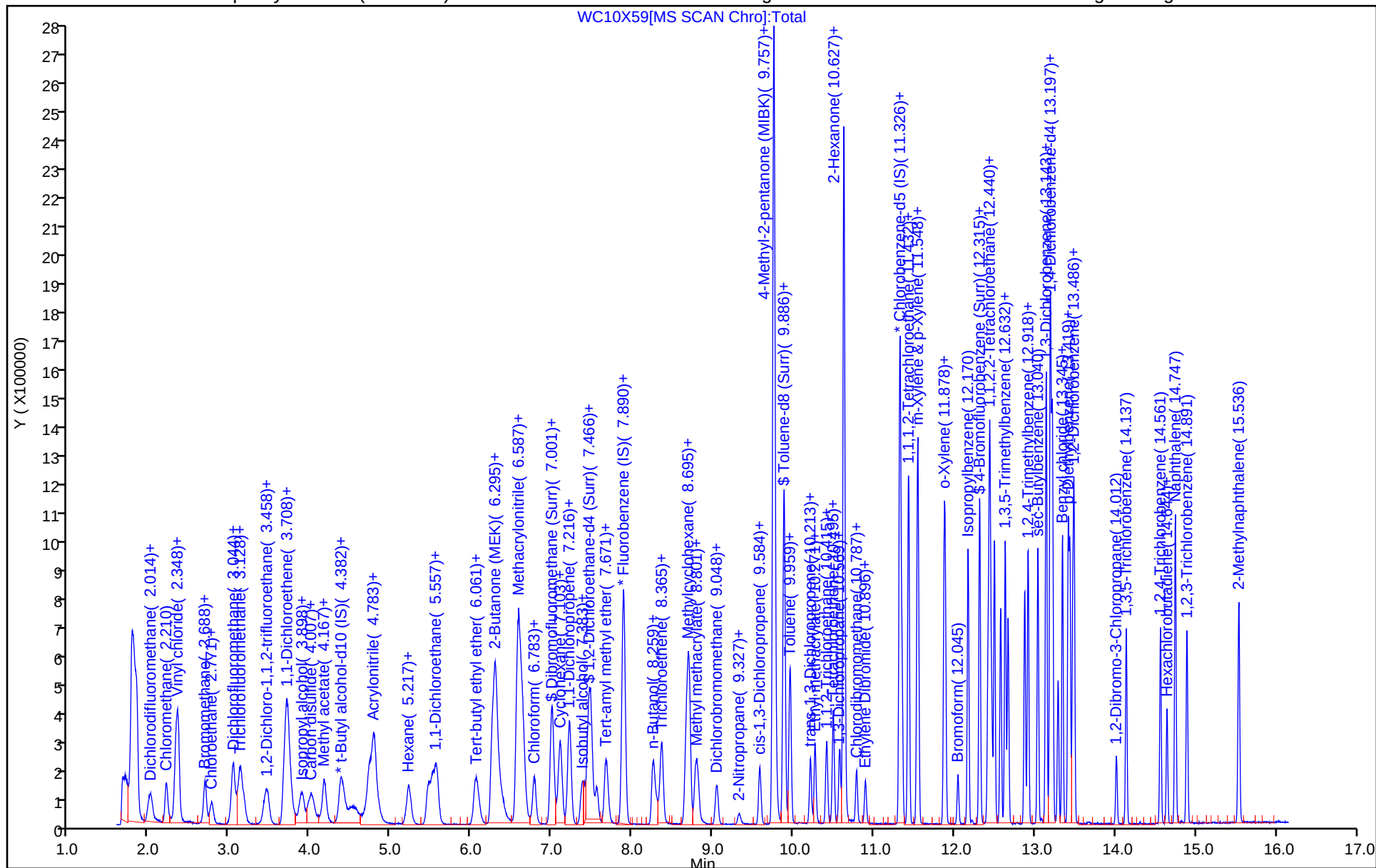
ALS Bottle#: 9

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X59.D
Lims ID: 410-191672-A-1 MS
Client ID: HD-MW-79-0/1-0 MS
Sample Type: MS
Inject. Date: 11-Oct-2024 00:57:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127401-010
Operator ID: KEL87800 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2024 14:20:40 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1645

First Level Reviewer: FQ4L

Date: 11-Oct-2024 14:22:53

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	52.6	105.23
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	49.5	99.04
\$ 84 Toluene-d8 (Surr)	50.0	49.8	99.51
\$ 114 4-Bromofluorobenzene (Surr)	50.0	49.2	98.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-191672-1

SDG No.:

Client Sample ID: HD-MW-79-0/1-0 MSD MSD

Lab Sample ID: 410-191672-1 MSD

Matrix: Water

Lab File ID: WC10X60.D

Analysis Method: 8260D

Date Collected: 10/08/2024 12:00

Sample wt/vol: 5(mL)

Date Analyzed: 10/11/2024 01:19

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 561893

Units: ug/L

Preparation Batch No.:

Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	19.5		1.0	0.30
71-55-6	1,1,1-Trichloroethane	23.0		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	18.7		1.0	0.30
79-00-5	1,1,2-Trichloroethane	18.1		1.0	0.30
75-34-3	1,1-Dichloroethane	24.4		1.0	0.30
75-35-4	1,1-Dichloroethene	25.1		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	18.6		1.0	0.20
107-06-2	1,2-Dichloroethane	20.9		1.0	0.30
78-87-5	1,2-Dichloropropane	21.3		1.0	0.30
78-93-3	2-Butanone (MEK)	240		10	0.50
591-78-6	2-Hexanone	243		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	256		10	0.50
67-64-1	Acetone	235		20	0.70
71-43-2	Benzene	21.6		1.0	0.30
74-97-5	Bromochloromethane	20.1		5.0	0.20
75-27-4	Bromodichloromethane	20.7		1.0	0.20
75-25-2	Bromoform	17.9		4.0	1.0
74-83-9	Bromomethane	19.5		1.0	0.30
75-15-0	Carbon disulfide	22.2		5.0	0.30
56-23-5	Carbon tetrachloride	23.0		1.0	0.30
108-90-7	Chlorobenzene	19.8		1.0	0.30
75-00-3	Chloroethane	21.6		1.0	0.30
67-66-3	Chloroform	22.3		1.0	0.30
74-87-3	Chloromethane	20.8		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	21.6		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	17.4		1.0	0.20
124-48-1	Dibromochloromethane	18.7		1.0	0.20
100-41-4	Ethylbenzene	20.4		1.0	0.40
1634-04-4	Methyl tert-butyl ether	17.9		1.0	0.20
75-09-2	Methylene Chloride	21.7		1.0	0.30
100-42-5	Styrene	18.4		5.0	0.30
127-18-4	Tetrachloroethene	22.2		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	Job No.: 410-191672-1
SDG No.:	
Client Sample ID: HD-MW-79-0/1-0 MSD MSD	Lab Sample ID: 410-191672-1 MSD
Matrix: Water	Lab File ID: WC10X60.D
Analysis Method: 8260D	Date Collected: 10/08/2024 12:00
Sample wt/vol: 5 (mL)	Date Analyzed: 10/11/2024 01:19
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: R-624SilMS 30m ID: 0.25 (mm)
Purge Volume: 5.0 (mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 561893	Units: ug/L
Preparation Batch No.:	Instrument ID: 9137

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	20.4		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	23.3		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	17.0		1.0	0.20
79-01-6	Trichloroethene	21.3		1.0	0.30
75-01-4	Vinyl chloride	21.4		1.0	0.30
1330-20-7	Xylenes, Total	59.7		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X60.D
 Lims ID: 410-191672-A-1 MSD
 Client ID: HD-MW-79-0/1-0 MSD
 Sample Type: MSD
 Inject. Date: 11-Oct-2024 01:19:30 ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0127401-011
 Operator ID: KEL87800 Instrument ID: 9137
 Method: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\MSVoa_9137.m
 Limit Group: MSV - 8260C_D
 Last Update: 11-Oct-2024 14:20:40 Calib Date: 01-Oct-2024 00:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1645

First Level Reviewer: FQ4L

Date: 11-Oct-2024 14:21:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Dichlorodifluoromethane	85	2.008	2.014	-0.006	99	230749	20.0	21.3	
7 Chloromethane	50	2.210	2.213	-0.003	100	217043	20.0	20.8	
8 Vinyl chloride	62	2.325	2.332	-0.007	98	220642	20.0	21.4	
9 Butadiene	39	2.348	2.358	-0.010	92	275482	20.0	26.3	
11 Bromomethane	94	2.688	2.695	-0.006	91	143626	20.0	19.5	
12 Chloroethane	64	2.775	2.781	-0.006	100	111711	20.0	21.6	
13 Dichlorofluoromethane	67	3.038	3.047	-0.009	98	290570	20.0	18.7	
14 Trichlorofluoromethane	101	3.102	3.108	-0.006	98	249208	20.0	20.0	
15 Pentane	43	3.128	3.150	-0.022	97	206123	20.0	23.5	
18 1,2-Dichloro-1,1,2-trifluoroetha	67	3.452	3.455	-0.003	95	159009	20.0	21.1	
21 1,1-Dichloroethene	96	3.683	3.699	-0.016	98	126089	20.0	25.1	
22 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.715	3.715	0.000	67	142951	20.0	23.2	
20 Acetone	58	3.702	3.731	-0.029	100	224694	250.0	234.8	
25 Iodomethane	142	3.898	3.901	-0.003	97	204294	20.0	20.1	
23 Isopropyl alcohol	45	3.888	3.914	-0.026	42	71361	150.0	72.8	
26 Carbon disulfide	76	4.007	4.020	-0.013	99	387596	20.0	22.2	
28 Methyl acetate	43	4.148	4.155	-0.007	97	132410	20.0	20.5	
27 3-Chloro-1-propene	41	4.167	4.183	-0.016	91	143394	20.0	19.6	
30 Methylene Chloride	84	4.379	4.389	-0.010	93	125687	20.0	21.7	
* 32 t-Butyl alcohol-d10 (IS)	65	4.402	4.408	-0.006	58	313968	250.0	250.0	
33 2-Methyl-2-propanol	59	4.524	4.533	-0.009	94	202211	200.0	145.5	
34 Acrylonitrile	53	4.726	4.739	-0.013	99	322744	100.0	94.8	
36 Methyl tert-butyl ether	73	4.777	4.793	-0.016	96	318275	20.0	17.9	
35 trans-1,2-Dichloroethene	96	4.787	4.796	-0.009	99	111540	20.0	23.3	
37 Hexane	57	5.217	5.226	-0.009	94	135591	20.0	22.3	
38 1,1-Dichloroethane	63	5.454	5.470	-0.016	97	199083	20.0	24.4	
40 Isopropyl ether	45	5.515	5.525	-0.010	96	304324	20.0	19.1	
41 2-Chloro-1,3-butadiene	53	5.563	5.579	-0.016	91	152135	20.0	20.6	
42 Tert-butyl ethyl ether	59	6.057	6.067	-0.010	98	295374	20.0	17.5	
44 2-Butanone (MEK)	43	6.266	6.279	-0.013	100	1098096	250.0	239.9	
43 cis-1,2-Dichloroethene	96	6.295	6.301	-0.006	84	118301	20.0	21.6	
45 2,2-Dichloropropane	77	6.327	6.330	-0.003	92	185239	20.0	20.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
47 Propionitrile	54	6.375	6.378	-0.003	98	230207	150.0	147.2	
49 Methacrylonitrile	67	6.580	6.584	-0.004	91	479718	150.0	143.4	
50 Chlorobromomethane	128	6.625	6.632	-0.007	94	57395	20.0	20.1	
51 Tetrahydrofuran	71	6.638	6.648	-0.010	77	128914	100.0	94.5	
52 Chloroform	83	6.776	6.786	-0.010	94	179468	20.0	22.3	
\$ 54 Dibromofluoromethane (Surr)	113	6.994	6.998	-0.004	93	239974	50.0	52.0	
55 1,1,1-Trichloroethane	97	7.007	7.014	-0.007	98	196513	20.0	23.0	
56 Cyclohexane	56	7.107	7.107	0.000	93	224265	20.0	22.1	
58 Carbon tetrachloride	117	7.219	7.216	0.003	90	164286	20.0	23.0	
57 1,1-Dichloropropene	75	7.216	7.229	-0.013	94	155358	20.0	21.9	
59 Isobutyl alcohol	41	7.389	7.392	-0.003	94	213496	500.0	460.9	
\$ 60 1,2-Dichloroethane-d4 (Surr)	102	7.460	7.457	0.003	76	61649	50.0	51.2	
61 Benzene	78	7.485	7.489	-0.004	97	438595	20.0	21.6	
62 1,2-Dichloroethane	62	7.559	7.562	-0.003	97	134046	20.0	20.9	
64 Tert-amyl methyl ether	73	7.671	7.678	-0.007	98	286937	20.0	17.3	
* 65 Fluorobenzene (IS)	96	7.886	7.890	-0.004	99	961566	50.0	50.0	
66 n-Heptane	43	7.899	7.903	-0.004	90	121965	20.0	22.5	
67 n-Butanol	56	8.259	8.262	-0.003	89	291196	1000.0	844.7	
68 Trichloroethene	95	8.365	8.365	0.000	98	114489	20.0	21.3	
70 Methylcyclohexane	83	8.676	8.673	0.003	93	199625	20.0	21.3	
72 2-ethoxy-2-methyl butane	87	8.705	8.702	0.003	92	137693	20.0	17.4	
71 1,2-Dichloropropane	63	8.702	8.708	-0.006	75	109613	20.0	21.3	
74 Methyl methacrylate	69	8.785	8.785	0.000	92	82614	20.0	16.8	
75 1,4-Dioxane	88	8.782	8.795	-0.013	70	42887	500.0	436.8	
73 Dibromomethane	93	8.814	8.820	-0.006	97	69329	20.0	20.0	
77 Dichlorobromomethane	83	9.048	9.048	0.000	99	122416	20.0	20.7	
78 2-Nitropropane	41	9.331	9.324	0.006	96	34055	20.0	15.3	
81 cis-1,3-Dichloropropene	75	9.584	9.584	0.000	92	137696	20.0	17.4	
83 4-Methyl-2-pentanone (MIBK)	43	9.757	9.757	0.000	97	2241180	250.0	256.0	
\$ 84 Toluene-d8 (Surr)	98	9.882	9.886	-0.004	93	989772	50.0	49.1	
85 Toluene	92	9.959	9.959	0.000	98	272849	20.0	20.4	
86 trans-1,3-Dichloropropene	75	10.213	10.213	0.000	92	127583	20.0	17.0	
87 Ethyl methacrylate	69	10.268	10.271	-0.003	90	144484	20.0	16.1	
88 1,1,2-Trichloroethane	97	10.412	10.412	0.000	91	91913	20.0	18.1	
90 Tetrachloroethene	166	10.499	10.499	0.000	98	122982	20.0	22.2	
91 1,3-Dichloropropane	76	10.576	10.576	0.000	90	152543	20.0	18.3	
94 2-Hexanone	43	10.627	10.627	0.000	96	1584030	250.0	243.4	
96 Chlorodibromomethane	129	10.787	10.784	0.003	90	96192	20.0	18.7	
98 Ethylene Dibromide	107	10.896	10.896	0.000	99	101820	20.0	18.6	
* 101 Chlorobenzene-d5 (IS)	117	11.323	11.323	0.000	84	763044	50.0	50.0	
103 1-Chlorohexane	91	11.330	11.330	0.000	97	140328	20.0	19.4	
102 Chlorobenzene	112	11.349	11.349	0.000	96	299818	20.0	19.8	
104 1,1,1,2-Tetrachloroethane	131	11.429	11.432	-0.003	94	110949	20.0	19.5	
105 Ethylbenzene	91	11.432	11.432	0.000	98	549760	20.0	20.4	
106 m-Xylene & p-Xylene	106	11.541	11.548	-0.007	98	429883	40.0	40.4	
108 o-Xylene	106	11.875	11.875	0.000	96	214084	20.0	19.3	
109 Styrene	104	11.891	11.888	0.003	95	312436	20.0	18.4	
110 Bromoform	173	12.045	12.048	-0.003	97	71128	20.0	17.9	
111 Isopropylbenzene	105	12.170	12.170	0.000	95	584232	20.0	23.1	
\$ 114 4-Bromofluorobenzene (Surr)	95	12.315	12.312	0.003	90	368822	50.0	48.7	
116 1,1,2,2-Tetrachloroethane	83	12.417	12.418	-0.001	96	184171	20.0	18.7	
115 Bromobenzene	156	12.434	12.434	0.000	96	130707	20.0	19.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 trans-1,4-Dichloro-2-butene	53	12.443	12.443	0.000	90	179676	100.0	69.3	
118 1,2,3-Trichloropropane	110	12.462	12.466	-0.004	86	57698	20.0	18.8	
120 N-Propylbenzene	91	12.501	12.501	0.000	98	656916	20.0	21.1	
121 2-Chlorotoluene	126	12.575	12.578	-0.003	97	134282	20.0	19.6	
122 1,3,5-Trimethylbenzene	105	12.632	12.633	0.000	94	459089	20.0	19.9	
123 4-Chlorotoluene	126	12.668	12.668	0.000	97	129359	20.0	19.8	
125 tert-Butylbenzene	134	12.876	12.876	0.000	92	85318	20.0	19.6	
127 1,2,4-Trimethylbenzene	105	12.915	12.918	-0.003	97	469238	20.0	19.6	
128 sec-Butylbenzene	105	13.037	13.040	-0.003	94	567721	20.0	20.4	
131 1,3-Dichlorobenzene	146	13.136	13.136	0.000	97	246793	20.0	19.7	
132 4-Isopropyltoluene	119	13.146	13.146	0.000	97	480904	20.0	19.5	
* 133 1,4-Dichlorobenzene-d4	152	13.194	13.191	0.003	94	431654	50.0	50.0	
134 1,4-Dichlorobenzene	146	13.210	13.213	-0.003	95	253773	20.0	19.8	
148 1,2,3-Trimethylbenzene	105	13.223	13.223	0.000	98	475044	20.0	18.5	
170 Benzyl chloride	91	13.290	13.290	0.000	98	295644	20.0	15.4	
171 1,3-Diethylbenzene	119	13.342	13.345	-0.003	95	284747	20.0	19.9	
172 p-Diethylbenzene	119	13.415	13.415	0.000	96	290324	20.0	19.3	
173 n-Butylbenzene	92	13.435	13.435	0.000	97	234504	20.0	20.2	
174 1,2-Dichlorobenzene	146	13.473	13.473	0.000	98	262241	20.0	19.6	
175 o-diethylbenzene	119	13.489	13.489	0.000	95	231916	20.0	19.0	
176 1,2-Dibromo-3-Chloropropane	75	14.012	14.016	-0.004	87	49773	20.0	17.0	
177 1,3,5-Trichlorobenzene	180	14.137	14.137	0.000	98	180563	20.0	19.3	
179 1,2,4-Trichlorobenzene	180	14.561	14.564	-0.003	94	182452	20.0	19.2	
180 Hexachlorobutadiene	225	14.644	14.644	0.000	98	62124	20.0	19.8	
182 Naphthalene	128	14.747	14.747	0.000	97	722968	20.0	17.9	
183 1,2,3-Trichlorobenzene	180	14.888	14.892	-0.004	96	183851	20.0	18.6	
184 2-Methylnaphthalene	142	15.537	15.533	0.004	92	352474	20.0	18.1	

QC Flag Legend

Processing Flags

Reagents:

MSV_LCS_VOC#1_00188

Amount Added: 21.50

Units: uL

MSV_LCS_Gases_00219

Amount Added: 21.50

Units: uL

MSV_Cent_ISSS_00030

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 11-Oct-2024 14:21:59

Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X60.D

Injection Date: 11-Oct-2024 01:19:30

Instrument ID: 9137

Operator ID: KEL87800

Lims ID: 410-191672-A-1 MSD

Worklist Smp#: 11

Client ID: HD-MW-79-0/1-0 MSD

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

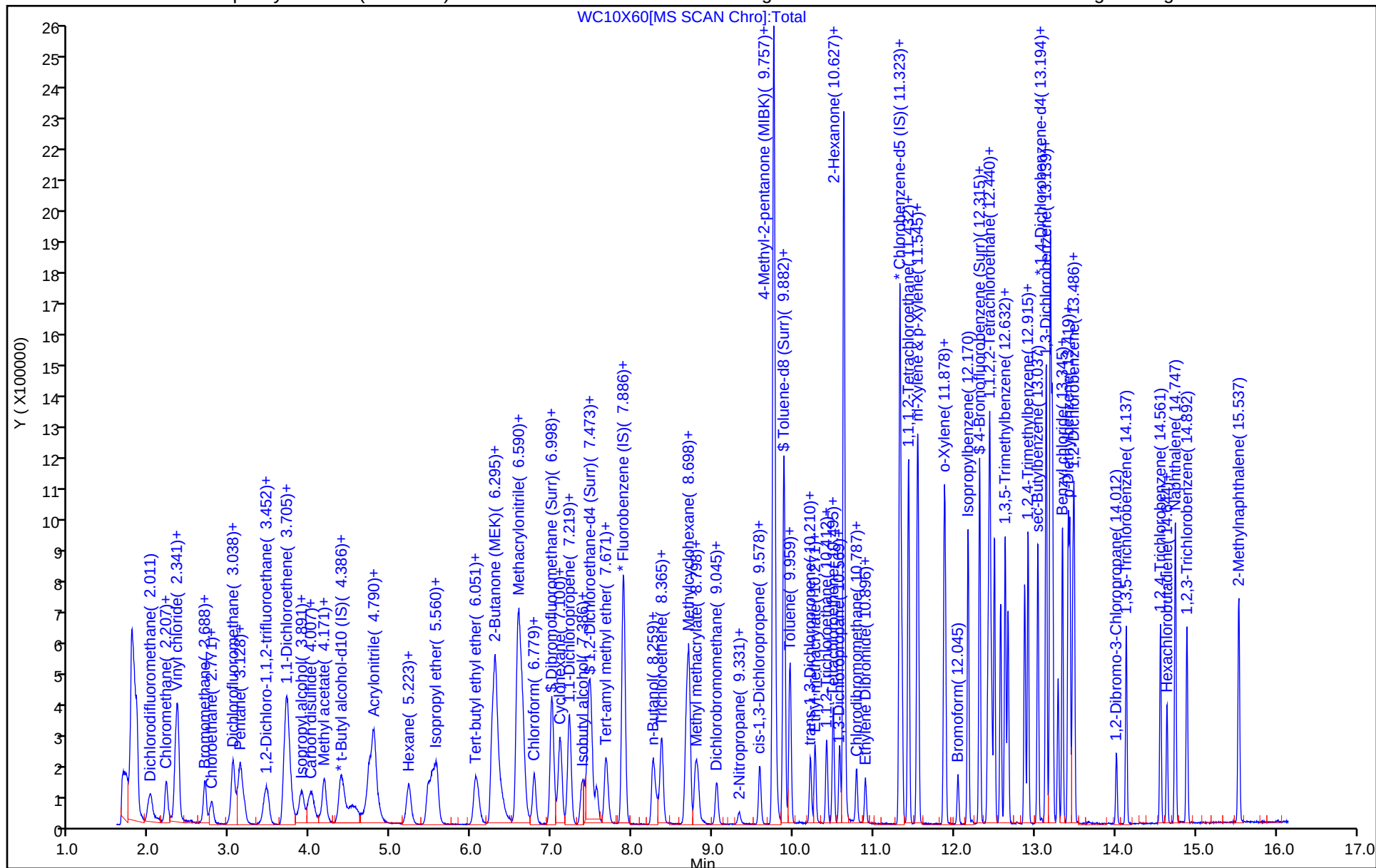
ALS Bottle#: 10

Method: MSVoa_9137

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm)

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\WC10X60.D
Lims ID: 410-191672-A-1 MSD
Client ID: HD-MW-79-0/1-0 MSD
Sample Type: MSD
Inject. Date: 11-Oct-2024 01:19:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0127401-011
Operator ID: KEL87800 Instrument ID: 9137
Method: \\chromfs\Lancaster\ChromData\9137\20241010-127401.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 11-Oct-2024 14:20:40 Calib Date: 01-Oct-2024 00:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20240930-126367.b\WS30X17.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1645

First Level Reviewer: FQ4L

Date: 11-Oct-2024 14:21:58

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	50.0	52.0	103.92
\$ 60 1,2-Dichloroethane-d4 (Surr)	50.0	51.2	102.32
\$ 84 Toluene-d8 (Surr)	50.0	49.1	98.24
\$ 114 4-Bromofluorobenzene (Surr)	50.0	48.7	97.39

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Instrument ID: 9137

Start Date: 09/30/2024 18:32

Analysis Batch Number: 557456

End Date: 10/01/2024 01:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-557456/1		09/30/2024 18:32	1	WS30T04.D	R-624SilMS 30m 0.25 (mm)
IC 410-557456/3		09/30/2024 19:14	1	WS30X02.D	R-624SilMS 30m 0.25 (mm)
IC 410-557456/4		09/30/2024 19:35	1	WS30X03.D	R-624SilMS 30m 0.25 (mm)
IC 410-557456/5		09/30/2024 19:57	1	WS30X04.D	R-624SilMS 30m 0.25 (mm)
IC 410-557456/6		09/30/2024 20:19	1	WS30X05.D	R-624SilMS 30m 0.25 (mm)
CCV 410-557456/1006		09/30/2024 20:19	1		R-624SilMS 30m 0.25 (mm)
IC 410-557456/7		09/30/2024 20:41	1	WS30X06.D	R-624SilMS 30m 0.25 (mm)
IC 410-557456/8		09/30/2024 21:03	1	WS30X07.D	R-624SilMS 30m 0.25 (mm)
IC 410-557456/12		09/30/2024 22:30	1	WS30X11.D	R-624SilMS 30m 0.25 (mm)
IC 410-557456/13		09/30/2024 22:52	1	WS30X12.D	R-624SilMS 30m 0.25 (mm)
IC 410-557456/14		09/30/2024 23:13	1	WS30X13.D	R-624SilMS 30m 0.25 (mm)
IC 410-557456/15		09/30/2024 23:35	1	WS30X14.D	R-624SilMS 30m 0.25 (mm)
ICIS 410-557456/16		09/30/2024 23:57	1	WS30X15.D	R-624SilMS 30m 0.25 (mm)
CCVIS 410-557456/1016		09/30/2024 23:57	1		R-624SilMS 30m 0.25 (mm)
IC 410-557456/17		10/01/2024 00:19	1	WS30X16.D	R-624SilMS 30m 0.25 (mm)
IC 410-557456/18		10/01/2024 00:40	1	WS30X17.D	R-624SilMS 30m 0.25 (mm)
ICV 410-557456/20		10/01/2024 01:24	1	WS30X19.D	R-624SilMS 30m 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Instrument ID: 9137

Start Date: 10/10/2024 21:50

Analysis Batch Number: 561893

End Date: 10/11/2024 07:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-561893/1		10/10/2024 21:50	1	WC10T51.D	R-624SilMS 30m 0.25 (mm)
CCVIS 410-561893/3		10/10/2024 22:25	1	WC10X52.D	R-624SilMS 30m 0.25 (mm)
LCS 410-561893/4		10/10/2024 22:47	1	WC10X53.D	R-624SilMS 30m 0.25 (mm)
ZZZZZ (QC)		10/10/2024 23:09	1		R-624SilMS 30m 0.25 (mm)
MB 410-561893/6		10/10/2024 23:31	1	WC10X55.D	R-624SilMS 30m 0.25 (mm)
410-191672-9	HD-QC3-0/1-4	10/10/2024 23:52	1	WC10X56.D	R-624SilMS 30m 0.25 (mm)
410-191672-10	HD-QC3-0/1-3	10/11/2024 00:14	1	WC10X57.D	R-624SilMS 30m 0.25 (mm)
410-191672-1	HD-MW-79-0/1-0	10/11/2024 00:36	1	WC10X58.D	R-624SilMS 30m 0.25 (mm)
410-191672-1 MS	HD-MW-79-0/1-0 MS MS	10/11/2024 00:57	1	WC10X59.D	R-624SilMS 30m 0.25 (mm)
410-191672-1 MSD	HD-MW-79-0/1-0 MSD MSD	10/11/2024 01:19	1	WC10X60.D	R-624SilMS 30m 0.25 (mm)
410-191672-2	HD-MW-142D-0/1-0	10/11/2024 01:41	1	WC10X61.D	R-624SilMS 30m 0.25 (mm)
ZZZZZ (Client)		10/11/2024 02:02	1		R-624SilMS 30m 0.25 (mm)
ZZZZZ (Client)		10/11/2024 02:24	1		R-624SilMS 30m 0.25 (mm)
ZZZZZ (Client)		10/11/2024 02:46	1		R-624SilMS 30m 0.25 (mm)
ZZZZZ (Client)		10/11/2024 03:08	1		R-624SilMS 30m 0.25 (mm)
ZZZZZ (Client)		10/11/2024 03:29	1		R-624SilMS 30m 0.25 (mm)
ZZZZZ (Client)		10/11/2024 03:51	10		R-624SilMS 30m 0.25 (mm)
ZZZZZ (Client)		10/11/2024 04:13	10		R-624SilMS 30m 0.25 (mm)
ZZZZZ (Client)		10/11/2024 04:35	10		R-624SilMS 30m 0.25 (mm)
ZZZZZ (Client)		10/11/2024 04:56	10		R-624SilMS 30m 0.25 (mm)
ZZZZZ (Client)		10/11/2024 05:18	1		R-624SilMS 30m 0.25 (mm)
ZZZZZ (Client)		10/11/2024 05:40	20		R-624SilMS 30m 0.25 (mm)
ZZZZZ (Client)		10/11/2024 06:01	1		R-624SilMS 30m 0.25 (mm)
ZZZZZ (Client)		10/11/2024 06:23	20		R-624SilMS 30m 0.25 (mm)
ZZZZZ (Client)		10/11/2024 06:45	20		R-624SilMS 30m 0.25 (mm)
ZZZZZ (Client)		10/11/2024 07:07	50		R-624SilMS 30m 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-191672-1

SDG No.:

Instrument ID: 9137

Start Date: 10/13/2024 19:21

Analysis Batch Number: 562572

End Date: 10/14/2024 06:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-562572/1		10/13/2024 19:21	1	WC13T01.D	R-624Si1MS 30m 0.25 (mm)
CCVIS 410-562572/3		10/13/2024 19:58	1	WC13X02.D	R-624Si1MS 30m 0.25 (mm)
CCV 410-562572/4		10/13/2024 20:20	1		R-624Si1MS 30m 0.25 (mm)
LCS 410-562572/5		10/13/2024 20:42	1	WC13X04.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ (QC)		10/13/2024 20:42	1		R-624Si1MS 30m 0.25 (mm)
LCSD 410-562572/6		10/13/2024 21:04	1	WC13X05.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ (QC)		10/13/2024 21:04	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ (QC)		10/13/2024 21:26	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ (QC)		10/13/2024 21:48	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ (QC)		10/13/2024 22:09	1		R-624Si1MS 30m 0.25 (mm)
MB 410-562572/10		10/13/2024 22:31	1	WC13X09.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ (Client)		10/13/2024 22:53	1		R-624Si1MS 30m 0.25 (mm)
410-191672-12	HD-QC4-0/1-2	10/13/2024 23:15	1	WC13X11.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ (Client)		10/13/2024 23:37	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ (Client)		10/13/2024 23:59	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ (Client)		10/14/2024 00:20	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ (Client)		10/14/2024 00:42	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ (Client)		10/14/2024 01:04	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ (Client)		10/14/2024 01:26	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ (Client)		10/14/2024 01:47	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ (Client)		10/14/2024 02:09	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ (Client)		10/14/2024 02:31	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ (Client)		10/14/2024 02:53	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ (Client)		10/14/2024 03:15	1		R-624Si1MS 30m 0.25 (mm)
410-191672-3	HD-MW-112-0/1-0	10/14/2024 03:36	1	WC13X23.D	R-624Si1MS 30m 0.25 (mm)
410-191672-4	HD-MW-115-0/1-0	10/14/2024 03:58	1	WC13X24.D	R-624Si1MS 30m 0.25 (mm)
410-191672-5	HD-MW-142S-0/1-0	10/14/2024 04:20	1	WC13X25.D	R-624Si1MS 30m 0.25 (mm)
410-191672-6	HD-MW-143S-0/1-0	10/14/2024 04:42	1	WC13X26.D	R-624Si1MS 30m 0.25 (mm)
410-191672-7	HD-MW-148A-72.5/73-0	10/14/2024 05:04	1	WC13X27.D	R-624Si1MS 30m 0.25 (mm)
410-191672-8	HD-MW-148A-136/136.5-0	10/14/2024 05:26	1	WC13X28.D	R-624Si1MS 30m 0.25 (mm)
410-191672-11	HD-QC3-0/1-1	10/14/2024 05:47	1	WC13X29.D	R-624Si1MS 30m 0.25 (mm)
410-191672-13	HD-MW-186-0/1-0	10/14/2024 06:09	1	WC13X30.D	R-624Si1MS 30m 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1

SDG No.: _____

Batch Number: 557456 Batch Start Date: 09/30/24 18:32 Batch Analyst: Drexinger, Marissa CBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Lot#Vial	MSV_4ppbEtOH 00696	MSV_CCV_2CEVE 00195	MSV_CCV_CYC 00010
BFB 410-557456/1		8260D			1 uL	1 uL				
IC 410-557456/3		8260D			5 mL	5 mL	2768			
IC 410-557456/4		8260D			5 mL	5 mL	2768			
IC 410-557456/5		8260D			5 mL	5 mL	2768			
IC 410-557456/6		8260D			5 mL	5 mL	2768			
IC 410-557456/7		8260D			5 mL	5 mL	2768			
IC 410-557456/8		8260D			5 mL	5 mL	2768			
IC 410-557456/12		8260D			5 mL	5 mL	2768	12.5 mL		
IC 410-557456/13		8260D			5 mL	5 mL	2768		4 uL	32 uL
IC 410-557456/14		8260D			5 mL	5 mL	2768		2 uL	8 uL
IC 410-557456/15		8260D			5 mL	5 mL	2768		4 uL	16 uL
ICIS 410-557456/16		8260D			5 mL	5 mL	2768		5 uL	10 uL
IC 410-557456/17		8260D			5 mL	5 mL	2768		5 uL	10 uL
IC 410-557456/18		8260D			5 mL	5 mL	2768		15 uL	30 uL
ICV 410-557456/20		8260D			5 mL	5 mL	2768			

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_EE 00007	MSV_CCV_ETOH 00007	MSV_CCV_GASES 00881	MSV_CCV_LKB 00011	MSV_CCV_OH_Sp 00014	MSV_CCV_Penta 00054
BFB 410-557456/1		8260D								
IC 410-557456/3		8260D			4 uL			4 uL		4 uL
IC 410-557456/4		8260D			2 uL			2 uL		2 uL
IC 410-557456/5		8260D			4 uL			4 uL		4 uL
IC 410-557456/6		8260D			5 uL			5 uL		5 uL
IC 410-557456/7		8260D			5 uL			5 uL		5 uL
IC 410-557456/8		8260D			15 uL			15 uL		15 uL
IC 410-557456/12		8260D								

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.

8260D

Page 1 of 4

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1

SDG No.: _____

Batch Number: 557456 Batch Start Date: 09/30/24 18:32 Batch Analyst: Drexinger, Marissa CBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_EE 00007	MSV_CCV_ETOH 00007	MSV_CCV_GASES 00881	MSV_CCV_LKB 00011	MSV_CCV_OH_Sp 00014	MSV_CCV_Penta 00054
IC 410-557456/13		8260D				20 uL	2 uL		4 uL	
IC 410-557456/14		8260D				8 uL	1 uL		2 uL	
IC 410-557456/15		8260D				16 uL	2 uL		4 uL	
ICIS 410-557456/16		8260D				10 uL	2.5 uL		5 uL	
IC 410-557456/17		8260D				10 uL	2.5 uL		5 uL	
IC 410-557456/18		8260D				30 uL	7.5 uL		15 uL	
ICV 410-557456/20		8260D								

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_V5ACE 00040	MSV_CCV_VOC#1 00203	MSV_CCV_VOC#3 00200	MSV_Cent_ISO 00005	MSV_Cent_ISSS 00031	MSV_LCS_2CEVE 00192
BFB 410-557456/1		8260D								
IC 410-557456/3		8260D			4 uL			5 uL		
IC 410-557456/4		8260D			2 uL			5 uL		
IC 410-557456/5		8260D			4 uL			5 uL		
IC 410-557456/6		8260D			5 uL			5 uL		
IC 410-557456/7		8260D			5 uL			5 uL		
IC 410-557456/8		8260D			15 uL			5 uL		
IC 410-557456/12		8260D							5 uL	
IC 410-557456/13		8260D				4 uL	3.2 uL		5 uL	
IC 410-557456/14		8260D				2 uL	1.6 uL		5 uL	
IC 410-557456/15		8260D				4 uL	3.2 uL		5 uL	
ICIS 410-557456/16		8260D				5 uL	4 uL		5 uL	
IC 410-557456/17		8260D				5 uL	4 uL		5 uL	
IC 410-557456/18		8260D				15 uL	12 uL		5 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1

SDG No.: _____

Batch Number: 557456 Batch Start Date: 09/30/24 18:32 Batch Analyst: Drexinger, Marissa CBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_V5ACE 00040	MSV_CCV_VOC#1 00203	MSV_CCV_VOC#3 00200	MSV_Cent_ISO 00005	MSV_Cent_ISSS 00031	MSV_LCS_2CEVE 00192
ICV 410-557456/20		8260D							5 uL	50 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_ACROL 00191	MSV_LCS_CYC 00010	MSV_LCS_ETOH 00009	MSV_LCS_Gases 00218	MSV_LCS_VOC#1 00187	MSV_Q_Acr_Std 00007
BFB 410-557456/1		8260D								
IC 410-557456/3		8260D								
IC 410-557456/4		8260D								
IC 410-557456/5		8260D								
IC 410-557456/6		8260D								
IC 410-557456/7		8260D								
IC 410-557456/8		8260D								
IC 410-557456/12		8260D								
IC 410-557456/13		8260D								
IC 410-557456/14		8260D								
IC 410-557456/15		8260D								
ICIS 410-557456/16		8260D								
IC 410-557456/17		8260D								
IC 410-557456/18		8260D								
ICV 410-557456/20		8260D			50 uL	50 uL	50 uL	50 uL	50 uL	2 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_V_BFB 00017	MSV_V_SMFreon 00050				
BFB 410-557456/1		8260D			1 uL					
IC 410-557456/3		8260D				2 uL				
IC 410-557456/4		8260D				1 uL				
IC 410-557456/5		8260D				2 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1

SDG No.: _____

Batch Number: 557456 Batch Start Date: 09/30/24 18:32 Batch Analyst: Drexinger, Marissa CBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_V_BFB 000I7	MSV_V_SMFreon 00050				
IC 410-557456/6		8260D				2.5 uL				
IC 410-557456/7		8260D				2.5 uL				
IC 410-557456/8		8260D				7.5 uL				
IC 410-557456/12		8260D								
IC 410-557456/13		8260D								
IC 410-557456/14		8260D								
IC 410-557456/15		8260D								
ICIS 410-557456/16		8260D								
IC 410-557456/17		8260D								
IC 410-557456/18		8260D								
ICV 410-557456/20		8260D								

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1

SDG No.: _____

Batch Number: 561893 Batch Start Date: 10/10/24 21:50 Batch Analyst: Campbell, Miranda EBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCh eck	Headspace	Lot#Vial
BFB 410-561893/1		8260D			1 uL	1 uL				
CCVIS 410-561893/3		8260D			5 mL	5 mL				2768
LCS 410-561893/4		8260D			5 mL	5 mL				2768
MB 410-561893/6		8260D			5 mL	5 mL				2768
410-191672-A-9	HD-QC3-0/1-4	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191672-A-10	HD-QC3-0/1-3	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191672-A-1	HD-MW-79-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191672-A-1 MS	HD-MW-79-0/1-0 MS	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191672-A-1 MSD	HD-MW-79-0/1-0 MSD	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191672-A-2	HD-MW-142D-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_2CEVE 00196	MSV_CCV_GASES 00869	MSV_CCV_VOC#1 00204	MSV_CCV_VOC#3 00201	MSV_Cent_ISSS 00030	MSV_LCS_2CEVE 00193
BFB 410-561893/1		8260D								
CCVIS 410-561893/3		8260D			5 uL	2.5 uL	5 uL	4 uL	5 uL	
LCS 410-561893/4		8260D							5 uL	50 uL
MB 410-561893/6		8260D							5 uL	
410-191672-A-9	HD-QC3-0/1-4	8260D	Water	T					5 uL	
410-191672-A-10	HD-QC3-0/1-3	8260D	Water	T					5 uL	
410-191672-A-1	HD-MW-79-0/1-0	8260D	Water	T					5 uL	
410-191672-A-1 MS	HD-MW-79-0/1-0 MS	8260D	Water	T					5 uL	
410-191672-A-1 MSD	HD-MW-79-0/1-0 MSD	8260D	Water	T					5 uL	
410-191672-A-2	HD-MW-142D-0/1-0	8260D	Water	T					5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS ACROL 00192	MSV_LCS Gases 00219	MSV_LCS VOC#1 00188	MSV V_BFB 00017		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1

SDG No.: _____

Batch Number: 561893 Batch Start Date: 10/10/24 21:50 Batch Analyst: Campbell, Miranda EBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_ACROL 00192	MSV_LCS_Gases 00219	MSV_LCS_VOC#1 00188	MSV_V_BFB 00017		
BFB 410-561893/1		8260D						1 uL		
CCVIS 410-561893/3		8260D								
LCS 410-561893/4		8260D			50 uL	50 uL	50 uL			
MB 410-561893/6		8260D								
410-191672-A-9	HD-QC3-0/1-4	8260D	Water	T						
410-191672-A-10	HD-QC3-0/1-3	8260D	Water	T						
410-191672-A-1	HD-MW-79-0/1-0	8260D	Water	T						
410-191672-A-1 MS	HD-MW-79-0/1-0 MS	8260D	Water	T		21.5 uL	21.5 uL			
410-191672-A-1 MSD	HD-MW-79-0/1-0 MSD	8260D	Water	T		21.5 uL	21.5 uL			
410-191672-A-2	HD-MW-142D-0/1-0	8260D	Water	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1

SDG No.: _____

Batch Number: 562572 Batch Start Date: 10/13/24 19:21 Batch Analyst: Walmer, GavinBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCh eck	Headspace	Lot#Vial
BFB 410-562572/1		8260D			1 uL	1 uL				
CCVIS 410-562572/3		8260D			5 mL	5 mL				2768
LCS 410-562572/5		8260D			5 mL	5 mL				2768
LCSD 410-562572/6		8260D			5 mL	5 mL				2768
MB 410-562572/10		8260D			5 mL	5 mL				2768
410-191672-A-12	HD-QC4-0/1-2	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191672-A-3	HD-MW-112-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191672-A-4	HD-MW-115-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191672-A-5	HD-MW-142S-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191672-A-6	HD-MW-143S-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191672-A-7	HD-MW-148A-72.5/73-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191672-A-8	HD-MW-148A-136/136.5-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191672-A-11	HD-QC3-0/1-1	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-191672-A-13	HD-MW-186-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_2CEVE 00196	MSV_CCV_GASES 00885	MSV_CCV_VOC#1 00204	MSV_CCV_VOC#3 00201	MSV_Cent_ISSS 00030	MSV_LCS_2CEVE 00193
BFB 410-562572/1		8260D								
CCVIS 410-562572/3		8260D			5 uL	2.5 uL	5 uL	4 uL	5 uL	
LCS 410-562572/5		8260D							5 uL	50 uL
LCSD 410-562572/6		8260D							5 uL	50 uL
MB 410-562572/10		8260D							5 uL	
410-191672-A-12	HD-QC4-0/1-2	8260D	Water	T					5 uL	
410-191672-A-3	HD-MW-112-0/1-0	8260D	Water	T					5 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 1 of 3

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1

SDG No.:

Batch Number: 562572 Batch Start Date: 10/13/24 19:21 Batch Analyst: Walmer, Gavin

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_2CEVE 00196	MSV_CCV_GASES 00885	MSV_CCV_VOC#1 00204	MSV_CCV_VOC#3 00201	MSV_Cent_ISSS 00030	MSV_LCS_2CEVE 00193
410-191672-A-4	HD-MW-115-0/1-0	8260D	Water	T					5 uL	
410-191672-A-5	HD-MW-142S-0/1-0	8260D	Water	T					5 uL	
410-191672-A-6	HD-MW-143S-0/1-0	8260D	Water	T					5 uL	
410-191672-A-7	HD-MW-148A-72.5/73-0	8260D	Water	T					5 uL	
410-191672-A-8	HD-MW-148A-136/136.5-0	8260D	Water	T					5 uL	
410-191672-A-11	HD-QC3-0/1-1	8260D	Water	T					5 uL	
410-191672-A-13	HD-MW-186-0/1-0	8260D	Water	T					5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS ACROL 00192	MSV_LCS Gases 00219	MSV_LCS VOC#1 00188	MSV V_BFB 00017		
BFB 410-562572/1		8260D						1 uL		
CCVIS 410-562572/3		8260D								
LCS 410-562572/5		8260D			50 uL	50 uL	50 uL			
LCSD 410-562572/6		8260D			50 uL	50 uL	50 uL			
MB 410-562572/10		8260D								
410-191672-A-12	HD-QC4-0/1-2	8260D	Water	T						
410-191672-A-3	HD-MW-112-0/1-0	8260D	Water	T						
410-191672-A-4	HD-MW-115-0/1-0	8260D	Water	T						
410-191672-A-5	HD-MW-142S-0/1-0	8260D	Water	T						
410-191672-A-6	HD-MW-143S-0/1-0	8260D	Water	T						
410-191672-A-7	HD-MW-148A-72.5/73-0	8260D	Water	T						
410-191672-A-8	HD-MW-148A-136/136.5-0	8260D	Water	T						
410-191672-A-11	HD-QC3-0/1-1	8260D	Water	T						
410-191672-A-13	HD-MW-186-0/1-0	8260D	Water	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-191672-1

SDG No.: _____

Batch Number: 562572 Batch Start Date: 10/13/24 19:21 Batch Analyst: Walmer, GavinBatch Method: 8260D Batch End Date: _____

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents



Lancaster
Environmental

410-191672 Chain of Custody

Environmental Analysis Request/Chain of Custody

Acct. #

Group #

Sample #

Client: Groundwater Sciences Corporation				Matrix			Analyses Requested										For Lab Use Only		
Project Name/#: 2024 Comprehensive Sampling		Site ID #: FYNOP, York PA		☐ Tissue	☒ Ground	☐ Surface	Preservation Codes										SF #:		
Project Manager: Chris O'Neil		P.O. #: 10012.52		☐ Potable	☐ NPDES												SCR #:		
Sampler: Casey Littlefield (GSC) Lucas Grimm (LDG)		PWSID #: N/A		☐ Soil	☐ Water	☐ Other:	Total # of Containers	Aqueous VOCs via 8260D (standard level)										Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ P = H ₃ PO ₄ O = Other	
Phone #: (717) 901-8176 / (717) 756-1246		Quote #:																	
State where samples were collected: York, PA		For Compliance: Yes ☐ No ☒																	
Collection				☐ Grab	☐ Composite														
Sample Identification		Date	Time													Remarks			
HD-MW-79-0/1-0		10/8/2024	1200	x			x	3	x								All Samples		
HD-MW-79-0/1-0 MS		10/8/2024	1200	x			x	3	x								preserved on ice		
HD-MW-79-0/1-0 MSD		10/8/2024	1200	x			x	3	x										
HD-MW-142D-0/1-0		10/8/2024	1325	x			x	3	x								Jasen Fritz (GSC)		
HD-MW-112-0/1-0		10/7/2024	1350	x			x	3	x								additional sampler		
HD-MW-115-0/1-0		10/7/2024	1140	x			x	3	x										
HD-MW-142S-0/1-0		10/7/2024	1214	x			x	3	x										
HD-MW-143S-0/1-0		10/7/2024	1040	x			x	3	x										
HD-MW-148A-72.5/73-0		10/7/2024	1400	x			x	3	x										
HD-MW-148A-136/136.5-0		10/7/2024	1240	x			x	3	x										
Turnaround Time Requested (TAT) (please check): Standard ☒ Rush ☐				Relinquished by: <i>[Signature]</i>		Date	Time	Received by: <i>[Signature]</i>		Date	Time								
(Rush TAT is subject to laboratory approval and surcharges.)						10/9/24	1212			10/9/24	1212								
Date results are needed: STANDARD				Relinquished by: <i>[Signature]</i>		Date	Time	Received by:		Date	Time								
Rush results requested by (please check): E-Mail ☒ Phone ☐						10/9/24	1706												
E-mail Address: On-File				Relinquished by:		Date	Time	Received by:		Date	Time								
Phone:																			
Data Package Options (please check if required)				Relinquished by:		Date	Time	Received by:		Date	Time								
Type I (Validation/non-CLP) ☐ MA MCP ☐																			
Type III (Reduced non-CLP) ☐ CT RCP ☐																			
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐																			
NJ DKQP ☐ NYSDEC Category ☐ A or ☐ B																			
CLP Like Deliverables, Project Specific Analyte List				Relinquished by Commercial Carrier:															
EDD Required? Yes ☒ No ☐ If yes, format: _____				UPS _____ FedEx _____ Other ☒															
								Temperature upon receipt		R: 0.7 C: 0.7 14:05		8/250		10/9/24					



**Lancaster Laboratories
Environmental**

Acct #	Group #	Sample #

[illegible]

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-191672-1

Login Number: 191672

List Number: 1

Creator: Santiago, Nathaniel

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is 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 acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	False	Headspace greater than 6mm in diameter in some but not all containers

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-191672-1

Login Number: 191672

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 2

Creator: Jeremiah, Cory T

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		