



ANALYTICAL REPORT

PREPARED FOR

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Generated 05/09/2025

JOB DESCRIPTION

fYNOP Monthly Surface Water

JOB NUMBER

410-219242-1

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
05/09/2025

Authorized for release by
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Definitions/Glossary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
^c	CCV Recovery is outside acceptance limits.
cn	Refer to Case Narrative for further detail
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
410-219242-1**

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 4/25/2025 4:44 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 2.0°C.

GC/MS VOA

Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-640992 recovered above the upper control limit for 2-Butanone (MEK). 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: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Client Sample ID: HD-COD-SW-6-0/1-0

Lab Sample ID: 410-219242-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.10	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-7-0/1-0

Lab Sample ID: 410-219242-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.13	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.15	J	0.50	0.080	ug/L	1		8260D	Total/NA
Toluene	0.083	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.26	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-8-0/1-0

Lab Sample ID: 410-219242-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.19	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.91		0.50	0.20	ug/L	1		8260D	Total/NA
Toluene	0.099	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.23	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-9-0/1-0

Lab Sample ID: 410-219242-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.16	J	0.50	0.090	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.24	J	0.50	0.20	ug/L	1		8260D	Total/NA
Toluene	0.12	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.11	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-13-0/1-0

Lab Sample ID: 410-219242-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.10	J	0.50	0.080	ug/L	1		8260D	Total/NA
Carbon disulfide	0.10	J	1.0	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.092	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.22	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.7		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.24	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-15-0/1-0

Lab Sample ID: 410-219242-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.27	J	0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.16	J	0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.18	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.75		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	4.9		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	1.2		0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-16-0/1-0

Lab Sample ID: 410-219242-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.15	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.56		0.50	0.20	ug/L	1		8260D	Total/NA
Toluene	0.087	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.21	J	0.50	0.080	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Client Sample ID: HD-COD-SW-17-0/1-0

Lab Sample ID: 410-219242-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	12		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	2.2		0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.90		0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.17	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.1		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	3.7		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	140		10	4.0	ug/L	20		8260D	Total/NA

Client Sample ID: HD-COD-SW-26-0/1-0

Lab Sample ID: 410-219242-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.13	J	0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.68		0.50	0.090	ug/L	1		8260D	Total/NA
Tetrachloroethene	4.0		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.16	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-27-0/1-0

Lab Sample ID: 410-219242-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.12	J	1.0	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.17	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.13	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.17	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-28-0/1-0

Lab Sample ID: 410-219242-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.12	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.091	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.27	J	0.50	0.20	ug/L	1		8260D	Total/NA
Toluene	0.11	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.16	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-29-0/1-0

Lab Sample ID: 410-219242-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.094	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.16	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.57		0.50	0.20	ug/L	1		8260D	Total/NA
Toluene	0.11	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.22	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-QC1-0/1-1

Lab Sample ID: 410-219242-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	12		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	2.1		0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.93		0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.19	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.1		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	3.7		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	140		10	4.0	ug/L	20		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Client Sample ID: HD-QC1-0/1-2 Lab Sample ID: 410-219242-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.22	J	1.0	0.10	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Client Sample ID: HD-COD-SW-6-0/1-0

Lab Sample ID: 410-219242-1

Date Collected: 04/24/25 10:00

Matrix: Water

Date Received: 04/25/25 16:44

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		0.50	0.070	ug/L			05/08/25 00:03	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 00:03	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			05/08/25 00:03	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 00:03	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			05/08/25 00:03	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 00:03	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			05/08/25 00:03	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			05/08/25 00:03	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			05/08/25 00:03	1
2-Butanone (MEK)	ND	^c cn	5.0	1.0	ug/L			05/08/25 00:03	1
2-Hexanone	ND		5.0	2.0	ug/L			05/08/25 00:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			05/08/25 00:03	1
Acetone	ND		5.0	1.5	ug/L			05/08/25 00:03	1
Benzene	ND		0.50	0.10	ug/L			05/08/25 00:03	1
Bromochloromethane	ND		0.50	0.080	ug/L			05/08/25 00:03	1
Bromodichloromethane	ND		0.50	0.080	ug/L			05/08/25 00:03	1
Bromoform	ND		1.0	0.30	ug/L			05/08/25 00:03	1
Bromomethane	ND		0.50	0.10	ug/L			05/08/25 00:03	1
Carbon disulfide	ND		1.0	0.10	ug/L			05/08/25 00:03	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			05/08/25 00:03	1
Chlorobenzene	ND		0.50	0.070	ug/L			05/08/25 00:03	1
Chloroethane	ND		0.50	0.10	ug/L			05/08/25 00:03	1
Chloroform	ND		0.50	0.090	ug/L			05/08/25 00:03	1
Chloromethane	ND		0.50	0.10	ug/L			05/08/25 00:03	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			05/08/25 00:03	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/25 00:03	1
Dibromochloromethane	ND		0.50	0.080	ug/L			05/08/25 00:03	1
Ethylbenzene	ND		0.50	0.080	ug/L			05/08/25 00:03	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			05/08/25 00:03	1
Methylene Chloride	ND		0.50	0.20	ug/L			05/08/25 00:03	1
Styrene	ND		0.50	0.070	ug/L			05/08/25 00:03	1
Tetrachloroethene	ND		0.50	0.20	ug/L			05/08/25 00:03	1
Toluene	ND		0.50	0.080	ug/L			05/08/25 00:03	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 00:03	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/25 00:03	1
Trichloroethene	0.10	J	0.50	0.080	ug/L			05/08/25 00:03	1
Vinyl chloride	ND		0.50	0.10	ug/L			05/08/25 00:03	1
Xylenes, Total	ND		1.0	0.070	ug/L			05/08/25 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		05/08/25 00:03	1
4-Bromofluorobenzene (Surr)	96		80 - 120		05/08/25 00:03	1
Dibromofluoromethane (Surr)	101		80 - 120		05/08/25 00:03	1
Toluene-d8 (Surr)	103		80 - 120		05/08/25 00:03	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Client Sample ID: HD-COD-SW-7-0/1-0

Lab Sample ID: 410-219242-2

Date Collected: 04/24/25 10:37

Matrix: Water

Date Received: 04/25/25 16:44

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		0.50	0.070	ug/L			05/08/25 00:24	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 00:24	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			05/08/25 00:24	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 00:24	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			05/08/25 00:24	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 00:24	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			05/08/25 00:24	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			05/08/25 00:24	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			05/08/25 00:24	1
2-Butanone (MEK)	ND	^c cn	5.0	1.0	ug/L			05/08/25 00:24	1
2-Hexanone	ND		5.0	2.0	ug/L			05/08/25 00:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			05/08/25 00:24	1
Acetone	ND		5.0	1.5	ug/L			05/08/25 00:24	1
Benzene	ND		0.50	0.10	ug/L			05/08/25 00:24	1
Bromochloromethane	ND		0.50	0.080	ug/L			05/08/25 00:24	1
Bromodichloromethane	ND		0.50	0.080	ug/L			05/08/25 00:24	1
Bromoform	ND		1.0	0.30	ug/L			05/08/25 00:24	1
Bromomethane	ND		0.50	0.10	ug/L			05/08/25 00:24	1
Carbon disulfide	ND		1.0	0.10	ug/L			05/08/25 00:24	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			05/08/25 00:24	1
Chlorobenzene	ND		0.50	0.070	ug/L			05/08/25 00:24	1
Chloroethane	ND		0.50	0.10	ug/L			05/08/25 00:24	1
Chloroform	0.13	J	0.50	0.090	ug/L			05/08/25 00:24	1
Chloromethane	ND		0.50	0.10	ug/L			05/08/25 00:24	1
cis-1,2-Dichloroethene	0.15	J	0.50	0.080	ug/L			05/08/25 00:24	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/25 00:24	1
Dibromochloromethane	ND		0.50	0.080	ug/L			05/08/25 00:24	1
Ethylbenzene	ND		0.50	0.080	ug/L			05/08/25 00:24	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			05/08/25 00:24	1
Methylene Chloride	ND		0.50	0.20	ug/L			05/08/25 00:24	1
Styrene	ND		0.50	0.070	ug/L			05/08/25 00:24	1
Tetrachloroethene	ND		0.50	0.20	ug/L			05/08/25 00:24	1
Toluene	0.083	J	0.50	0.080	ug/L			05/08/25 00:24	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 00:24	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/25 00:24	1
Trichloroethene	0.26	J	0.50	0.080	ug/L			05/08/25 00:24	1
Vinyl chloride	ND		0.50	0.10	ug/L			05/08/25 00:24	1
Xylenes, Total	ND		1.0	0.070	ug/L			05/08/25 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		05/08/25 00:24	1
4-Bromofluorobenzene (Surr)	96		80 - 120		05/08/25 00:24	1
Dibromofluoromethane (Surr)	101		80 - 120		05/08/25 00:24	1
Toluene-d8 (Surr)	101		80 - 120		05/08/25 00:24	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Client Sample ID: HD-COD-SW-8-0/1-0

Lab Sample ID: 410-219242-3

Date Collected: 04/24/25 08:47

Matrix: Water

Date Received: 04/25/25 16:44

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		0.50	0.070	ug/L			05/08/25 00:45	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 00:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			05/08/25 00:45	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 00:45	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			05/08/25 00:45	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 00:45	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			05/08/25 00:45	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			05/08/25 00:45	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			05/08/25 00:45	1
2-Butanone (MEK)	ND	^c cn	5.0	1.0	ug/L			05/08/25 00:45	1
2-Hexanone	ND		5.0	2.0	ug/L			05/08/25 00:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			05/08/25 00:45	1
Acetone	ND		5.0	1.5	ug/L			05/08/25 00:45	1
Benzene	ND		0.50	0.10	ug/L			05/08/25 00:45	1
Bromochloromethane	ND		0.50	0.080	ug/L			05/08/25 00:45	1
Bromodichloromethane	ND		0.50	0.080	ug/L			05/08/25 00:45	1
Bromoform	ND		1.0	0.30	ug/L			05/08/25 00:45	1
Bromomethane	ND		0.50	0.10	ug/L			05/08/25 00:45	1
Carbon disulfide	ND		1.0	0.10	ug/L			05/08/25 00:45	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			05/08/25 00:45	1
Chlorobenzene	ND		0.50	0.070	ug/L			05/08/25 00:45	1
Chloroethane	ND		0.50	0.10	ug/L			05/08/25 00:45	1
Chloroform	ND		0.50	0.090	ug/L			05/08/25 00:45	1
Chloromethane	ND		0.50	0.10	ug/L			05/08/25 00:45	1
cis-1,2-Dichloroethene	0.19	J	0.50	0.080	ug/L			05/08/25 00:45	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/25 00:45	1
Dibromochloromethane	ND		0.50	0.080	ug/L			05/08/25 00:45	1
Ethylbenzene	ND		0.50	0.080	ug/L			05/08/25 00:45	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			05/08/25 00:45	1
Methylene Chloride	ND		0.50	0.20	ug/L			05/08/25 00:45	1
Styrene	ND		0.50	0.070	ug/L			05/08/25 00:45	1
Tetrachloroethene	0.91		0.50	0.20	ug/L			05/08/25 00:45	1
Toluene	0.099	J	0.50	0.080	ug/L			05/08/25 00:45	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 00:45	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/25 00:45	1
Trichloroethene	0.23	J	0.50	0.080	ug/L			05/08/25 00:45	1
Vinyl chloride	ND		0.50	0.10	ug/L			05/08/25 00:45	1
Xylenes, Total	ND		1.0	0.070	ug/L			05/08/25 00:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		05/08/25 00:45	1
4-Bromofluorobenzene (Surr)	96		80 - 120		05/08/25 00:45	1
Dibromofluoromethane (Surr)	100		80 - 120		05/08/25 00:45	1
Toluene-d8 (Surr)	101		80 - 120		05/08/25 00:45	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Client Sample ID: HD-COD-SW-9-0/1-0

Lab Sample ID: 410-219242-4

Date Collected: 04/24/25 12:10

Matrix: Water

Date Received: 04/25/25 16:44

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		0.50	0.070	ug/L			05/08/25 01:06	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 01:06	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			05/08/25 01:06	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 01:06	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			05/08/25 01:06	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 01:06	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			05/08/25 01:06	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			05/08/25 01:06	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			05/08/25 01:06	1
2-Butanone (MEK)	ND	^c cn	5.0	1.0	ug/L			05/08/25 01:06	1
2-Hexanone	ND		5.0	2.0	ug/L			05/08/25 01:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			05/08/25 01:06	1
Acetone	ND		5.0	1.5	ug/L			05/08/25 01:06	1
Benzene	ND		0.50	0.10	ug/L			05/08/25 01:06	1
Bromochloromethane	ND		0.50	0.080	ug/L			05/08/25 01:06	1
Bromodichloromethane	ND		0.50	0.080	ug/L			05/08/25 01:06	1
Bromoform	ND		1.0	0.30	ug/L			05/08/25 01:06	1
Bromomethane	ND		0.50	0.10	ug/L			05/08/25 01:06	1
Carbon disulfide	ND		1.0	0.10	ug/L			05/08/25 01:06	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			05/08/25 01:06	1
Chlorobenzene	ND		0.50	0.070	ug/L			05/08/25 01:06	1
Chloroethane	ND		0.50	0.10	ug/L			05/08/25 01:06	1
Chloroform	0.16	J	0.50	0.090	ug/L			05/08/25 01:06	1
Chloromethane	ND		0.50	0.10	ug/L			05/08/25 01:06	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			05/08/25 01:06	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/25 01:06	1
Dibromochloromethane	ND		0.50	0.080	ug/L			05/08/25 01:06	1
Ethylbenzene	ND		0.50	0.080	ug/L			05/08/25 01:06	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			05/08/25 01:06	1
Methylene Chloride	ND		0.50	0.20	ug/L			05/08/25 01:06	1
Styrene	ND		0.50	0.070	ug/L			05/08/25 01:06	1
Tetrachloroethene	0.24	J	0.50	0.20	ug/L			05/08/25 01:06	1
Toluene	0.12	J	0.50	0.080	ug/L			05/08/25 01:06	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 01:06	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/25 01:06	1
Trichloroethene	0.11	J	0.50	0.080	ug/L			05/08/25 01:06	1
Vinyl chloride	ND		0.50	0.10	ug/L			05/08/25 01:06	1
Xylenes, Total	ND		1.0	0.070	ug/L			05/08/25 01:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		05/08/25 01:06	1
4-Bromofluorobenzene (Surr)	96		80 - 120		05/08/25 01:06	1
Dibromofluoromethane (Surr)	104		80 - 120		05/08/25 01:06	1
Toluene-d8 (Surr)	101		80 - 120		05/08/25 01:06	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Client Sample ID: HD-COD-SW-13-0/1-0

Lab Sample ID: 410-219242-5

Date Collected: 04/24/25 09:03

Matrix: Water

Date Received: 04/25/25 16:44

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		0.50	0.070	ug/L			05/08/25 01:27	1
1,1,1-Trichloroethane	0.10	J	0.50	0.080	ug/L			05/08/25 01:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			05/08/25 01:27	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 01:27	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			05/08/25 01:27	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 01:27	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			05/08/25 01:27	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			05/08/25 01:27	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			05/08/25 01:27	1
2-Butanone (MEK)	ND	^c cn	5.0	1.0	ug/L			05/08/25 01:27	1
2-Hexanone	ND		5.0	2.0	ug/L			05/08/25 01:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			05/08/25 01:27	1
Acetone	ND		5.0	1.5	ug/L			05/08/25 01:27	1
Benzene	ND		0.50	0.10	ug/L			05/08/25 01:27	1
Bromochloromethane	ND		0.50	0.080	ug/L			05/08/25 01:27	1
Bromodichloromethane	ND		0.50	0.080	ug/L			05/08/25 01:27	1
Bromoform	ND		1.0	0.30	ug/L			05/08/25 01:27	1
Bromomethane	ND		0.50	0.10	ug/L			05/08/25 01:27	1
Carbon disulfide	0.10	J	1.0	0.10	ug/L			05/08/25 01:27	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			05/08/25 01:27	1
Chlorobenzene	ND		0.50	0.070	ug/L			05/08/25 01:27	1
Chloroethane	ND		0.50	0.10	ug/L			05/08/25 01:27	1
Chloroform	0.092	J	0.50	0.090	ug/L			05/08/25 01:27	1
Chloromethane	ND		0.50	0.10	ug/L			05/08/25 01:27	1
cis-1,2-Dichloroethene	0.22	J	0.50	0.080	ug/L			05/08/25 01:27	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/25 01:27	1
Dibromochloromethane	ND		0.50	0.080	ug/L			05/08/25 01:27	1
Ethylbenzene	ND		0.50	0.080	ug/L			05/08/25 01:27	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			05/08/25 01:27	1
Methylene Chloride	ND		0.50	0.20	ug/L			05/08/25 01:27	1
Styrene	ND		0.50	0.070	ug/L			05/08/25 01:27	1
Tetrachloroethene	1.7		0.50	0.20	ug/L			05/08/25 01:27	1
Toluene	ND		0.50	0.080	ug/L			05/08/25 01:27	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 01:27	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/25 01:27	1
Trichloroethene	0.24	J	0.50	0.080	ug/L			05/08/25 01:27	1
Vinyl chloride	ND		0.50	0.10	ug/L			05/08/25 01:27	1
Xylenes, Total	ND		1.0	0.070	ug/L			05/08/25 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		05/08/25 01:27	1
4-Bromofluorobenzene (Surr)	97		80 - 120		05/08/25 01:27	1
Dibromofluoromethane (Surr)	99		80 - 120		05/08/25 01:27	1
Toluene-d8 (Surr)	101		80 - 120		05/08/25 01:27	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Client Sample ID: HD-COD-SW-15-0/1-0

Lab Sample ID: 410-219242-6

Date Collected: 04/24/25 11:00

Matrix: Water

Date Received: 04/25/25 16:44

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		0.50	0.070	ug/L			05/08/25 01:47	1
1,1,1-Trichloroethane	0.27	J	0.50	0.080	ug/L			05/08/25 01:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			05/08/25 01:47	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 01:47	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			05/08/25 01:47	1
1,1-Dichloroethene	0.16	J	0.50	0.10	ug/L			05/08/25 01:47	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			05/08/25 01:47	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			05/08/25 01:47	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			05/08/25 01:47	1
2-Butanone (MEK)	ND	^c cn	5.0	1.0	ug/L			05/08/25 01:47	1
2-Hexanone	ND		5.0	2.0	ug/L			05/08/25 01:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			05/08/25 01:47	1
Acetone	ND		5.0	1.5	ug/L			05/08/25 01:47	1
Benzene	ND		0.50	0.10	ug/L			05/08/25 01:47	1
Bromochloromethane	ND		0.50	0.080	ug/L			05/08/25 01:47	1
Bromodichloromethane	ND		0.50	0.080	ug/L			05/08/25 01:47	1
Bromoform	ND		1.0	0.30	ug/L			05/08/25 01:47	1
Bromomethane	ND		0.50	0.10	ug/L			05/08/25 01:47	1
Carbon disulfide	ND		1.0	0.10	ug/L			05/08/25 01:47	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			05/08/25 01:47	1
Chlorobenzene	ND		0.50	0.070	ug/L			05/08/25 01:47	1
Chloroethane	ND		0.50	0.10	ug/L			05/08/25 01:47	1
Chloroform	0.18	J	0.50	0.090	ug/L			05/08/25 01:47	1
Chloromethane	ND		0.50	0.10	ug/L			05/08/25 01:47	1
cis-1,2-Dichloroethene	0.75		0.50	0.080	ug/L			05/08/25 01:47	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/25 01:47	1
Dibromochloromethane	ND		0.50	0.080	ug/L			05/08/25 01:47	1
Ethylbenzene	ND		0.50	0.080	ug/L			05/08/25 01:47	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			05/08/25 01:47	1
Methylene Chloride	ND		0.50	0.20	ug/L			05/08/25 01:47	1
Styrene	ND		0.50	0.070	ug/L			05/08/25 01:47	1
Tetrachloroethene	4.9		0.50	0.20	ug/L			05/08/25 01:47	1
Toluene	ND		0.50	0.080	ug/L			05/08/25 01:47	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 01:47	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/25 01:47	1
Trichloroethene	1.2		0.50	0.080	ug/L			05/08/25 01:47	1
Vinyl chloride	ND		0.50	0.10	ug/L			05/08/25 01:47	1
Xylenes, Total	ND		1.0	0.070	ug/L			05/08/25 01:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		05/08/25 01:47	1
4-Bromofluorobenzene (Surr)	96		80 - 120		05/08/25 01:47	1
Dibromofluoromethane (Surr)	101		80 - 120		05/08/25 01:47	1
Toluene-d8 (Surr)	102		80 - 120		05/08/25 01:47	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Client Sample ID: HD-COD-SW-16-0/1-0

Lab Sample ID: 410-219242-7

Date Collected: 04/24/25 09:20

Matrix: Water

Date Received: 04/25/25 16:44

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		0.50	0.070	ug/L			05/08/25 02:50	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 02:50	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			05/08/25 02:50	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 02:50	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			05/08/25 02:50	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 02:50	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			05/08/25 02:50	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			05/08/25 02:50	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			05/08/25 02:50	1
2-Butanone (MEK)	ND	^c cn	5.0	1.0	ug/L			05/08/25 02:50	1
2-Hexanone	ND		5.0	2.0	ug/L			05/08/25 02:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			05/08/25 02:50	1
Acetone	ND		5.0	1.5	ug/L			05/08/25 02:50	1
Benzene	ND		0.50	0.10	ug/L			05/08/25 02:50	1
Bromochloromethane	ND		0.50	0.080	ug/L			05/08/25 02:50	1
Bromodichloromethane	ND		0.50	0.080	ug/L			05/08/25 02:50	1
Bromoform	ND		1.0	0.30	ug/L			05/08/25 02:50	1
Bromomethane	ND		0.50	0.10	ug/L			05/08/25 02:50	1
Carbon disulfide	ND		1.0	0.10	ug/L			05/08/25 02:50	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			05/08/25 02:50	1
Chlorobenzene	ND		0.50	0.070	ug/L			05/08/25 02:50	1
Chloroethane	ND		0.50	0.10	ug/L			05/08/25 02:50	1
Chloroform	ND		0.50	0.090	ug/L			05/08/25 02:50	1
Chloromethane	ND		0.50	0.10	ug/L			05/08/25 02:50	1
cis-1,2-Dichloroethene	0.15	J	0.50	0.080	ug/L			05/08/25 02:50	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/25 02:50	1
Dibromochloromethane	ND		0.50	0.080	ug/L			05/08/25 02:50	1
Ethylbenzene	ND		0.50	0.080	ug/L			05/08/25 02:50	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			05/08/25 02:50	1
Methylene Chloride	ND		0.50	0.20	ug/L			05/08/25 02:50	1
Styrene	ND		0.50	0.070	ug/L			05/08/25 02:50	1
Tetrachloroethene	0.56		0.50	0.20	ug/L			05/08/25 02:50	1
Toluene	0.087	J	0.50	0.080	ug/L			05/08/25 02:50	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 02:50	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/25 02:50	1
Trichloroethene	0.21	J	0.50	0.080	ug/L			05/08/25 02:50	1
Vinyl chloride	ND		0.50	0.10	ug/L			05/08/25 02:50	1
Xylenes, Total	ND		1.0	0.070	ug/L			05/08/25 02:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		05/08/25 02:50	1
4-Bromofluorobenzene (Surr)	97		80 - 120		05/08/25 02:50	1
Dibromofluoromethane (Surr)	100		80 - 120		05/08/25 02:50	1
Toluene-d8 (Surr)	101		80 - 120		05/08/25 02:50	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Client Sample ID: HD-COD-SW-17-0/1-0

Lab Sample ID: 410-219242-8

Date Collected: 04/24/25 09:30

Matrix: Water

Date Received: 04/25/25 16:44

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		0.50	0.070	ug/L			05/08/25 06:38	1
1,1,1-Trichloroethane	12		0.50	0.080	ug/L			05/08/25 06:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			05/08/25 06:38	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 06:38	1
1,1-Dichloroethane	2.2		0.50	0.10	ug/L			05/08/25 06:38	1
1,1-Dichloroethene	0.90		0.50	0.10	ug/L			05/08/25 06:38	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			05/08/25 06:38	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			05/08/25 06:38	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			05/08/25 06:38	1
2-Butanone (MEK)	ND	^c cn	5.0	1.0	ug/L			05/08/25 06:38	1
2-Hexanone	ND		5.0	2.0	ug/L			05/08/25 06:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			05/08/25 06:38	1
Acetone	ND		5.0	1.5	ug/L			05/08/25 06:38	1
Benzene	ND		0.50	0.10	ug/L			05/08/25 06:38	1
Bromochloromethane	ND		0.50	0.080	ug/L			05/08/25 06:38	1
Bromodichloromethane	ND		0.50	0.080	ug/L			05/08/25 06:38	1
Bromoform	ND		1.0	0.30	ug/L			05/08/25 06:38	1
Bromomethane	ND		0.50	0.10	ug/L			05/08/25 06:38	1
Carbon disulfide	ND		1.0	0.10	ug/L			05/08/25 06:38	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			05/08/25 06:38	1
Chlorobenzene	ND		0.50	0.070	ug/L			05/08/25 06:38	1
Chloroethane	ND		0.50	0.10	ug/L			05/08/25 06:38	1
Chloroform	0.17	J	0.50	0.090	ug/L			05/08/25 06:38	1
Chloromethane	ND		0.50	0.10	ug/L			05/08/25 06:38	1
cis-1,2-Dichloroethene	2.1		0.50	0.080	ug/L			05/08/25 06:38	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/25 06:38	1
Dibromochloromethane	ND		0.50	0.080	ug/L			05/08/25 06:38	1
Ethylbenzene	ND		0.50	0.080	ug/L			05/08/25 06:38	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			05/08/25 06:38	1
Methylene Chloride	ND		0.50	0.20	ug/L			05/08/25 06:38	1
Styrene	ND		0.50	0.070	ug/L			05/08/25 06:38	1
Toluene	ND		0.50	0.080	ug/L			05/08/25 06:38	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 06:38	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/25 06:38	1
Trichloroethene	3.7		0.50	0.080	ug/L			05/08/25 06:38	1
Vinyl chloride	ND		0.50	0.10	ug/L			05/08/25 06:38	1
Xylenes, Total	ND		1.0	0.070	ug/L			05/08/25 06:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		80 - 120		05/08/25 06:38	1
4-Bromofluorobenzene (Surr)	94		80 - 120		05/08/25 06:38	1
Dibromofluoromethane (Surr)	102		80 - 120		05/08/25 06:38	1
Toluene-d8 (Surr)	96		80 - 120		05/08/25 06:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	140		10	4.0	ug/L			05/08/25 06:58	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120					05/08/25 06:58	20

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Client Sample ID: HD-COD-SW-17-0/1-0

Lab Sample ID: 410-219242-8

Date Collected: 04/24/25 09:30

Matrix: Water

Date Received: 04/25/25 16:44

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		05/08/25 06:58	20
Dibromofluoromethane (Surr)	101		80 - 120		05/08/25 06:58	20
Toluene-d8 (Surr)	101		80 - 120		05/08/25 06:58	20

Client Sample ID: HD-COD-SW-26-0/1-0

Lab Sample ID: 410-219242-9

Date Collected: 04/24/25 10:17

Matrix: Water

Date Received: 04/25/25 16:44

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		0.50	0.070	ug/L			05/08/25 03:10	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 03:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			05/08/25 03:10	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 03:10	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			05/08/25 03:10	1
1,1-Dichloroethene	0.13	J	0.50	0.10	ug/L			05/08/25 03:10	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			05/08/25 03:10	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			05/08/25 03:10	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			05/08/25 03:10	1
2-Butanone (MEK)	ND	^c cn	5.0	1.0	ug/L			05/08/25 03:10	1
2-Hexanone	ND		5.0	2.0	ug/L			05/08/25 03:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			05/08/25 03:10	1
Acetone	ND		5.0	1.5	ug/L			05/08/25 03:10	1
Benzene	ND		0.50	0.10	ug/L			05/08/25 03:10	1
Bromochloromethane	ND		0.50	0.080	ug/L			05/08/25 03:10	1
Bromodichloromethane	ND		0.50	0.080	ug/L			05/08/25 03:10	1
Bromoform	ND		1.0	0.30	ug/L			05/08/25 03:10	1
Bromomethane	ND		0.50	0.10	ug/L			05/08/25 03:10	1
Carbon disulfide	ND		1.0	0.10	ug/L			05/08/25 03:10	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			05/08/25 03:10	1
Chlorobenzene	ND		0.50	0.070	ug/L			05/08/25 03:10	1
Chloroethane	ND		0.50	0.10	ug/L			05/08/25 03:10	1
Chloroform	0.68		0.50	0.090	ug/L			05/08/25 03:10	1
Chloromethane	ND		0.50	0.10	ug/L			05/08/25 03:10	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			05/08/25 03:10	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/25 03:10	1
Dibromochloromethane	ND		0.50	0.080	ug/L			05/08/25 03:10	1
Ethylbenzene	ND		0.50	0.080	ug/L			05/08/25 03:10	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			05/08/25 03:10	1
Methylene Chloride	ND		0.50	0.20	ug/L			05/08/25 03:10	1
Styrene	ND		0.50	0.070	ug/L			05/08/25 03:10	1
Tetrachloroethene	4.0		0.50	0.20	ug/L			05/08/25 03:10	1
Toluene	ND		0.50	0.080	ug/L			05/08/25 03:10	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 03:10	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/25 03:10	1
Trichloroethene	0.16	J	0.50	0.080	ug/L			05/08/25 03:10	1
Vinyl chloride	ND		0.50	0.10	ug/L			05/08/25 03:10	1
Xylenes, Total	ND		1.0	0.070	ug/L			05/08/25 03:10	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Client Sample ID: HD-COD-SW-26-0/1-0

Lab Sample ID: 410-219242-9

Date Collected: 04/24/25 10:17

Matrix: Water

Date Received: 04/25/25 16:44

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		05/08/25 03:10	1
4-Bromofluorobenzene (Surr)	97		80 - 120		05/08/25 03:10	1
Dibromofluoromethane (Surr)	102		80 - 120		05/08/25 03:10	1
Toluene-d8 (Surr)	101		80 - 120		05/08/25 03:10	1

Client Sample ID: HD-COD-SW-27-0/1-0

Lab Sample ID: 410-219242-10

Date Collected: 04/24/25 10:50

Matrix: Water

Date Received: 04/25/25 16:44

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		0.50	0.070	ug/L			05/08/25 03:31	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 03:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			05/08/25 03:31	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 03:31	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			05/08/25 03:31	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 03:31	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			05/08/25 03:31	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			05/08/25 03:31	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			05/08/25 03:31	1
2-Butanone (MEK)	ND	^c cn	5.0	1.0	ug/L			05/08/25 03:31	1
2-Hexanone	ND		5.0	2.0	ug/L			05/08/25 03:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			05/08/25 03:31	1
Acetone	ND		5.0	1.5	ug/L			05/08/25 03:31	1
Benzene	ND		0.50	0.10	ug/L			05/08/25 03:31	1
Bromochloromethane	ND		0.50	0.080	ug/L			05/08/25 03:31	1
Bromodichloromethane	ND		0.50	0.080	ug/L			05/08/25 03:31	1
Bromoform	ND		1.0	0.30	ug/L			05/08/25 03:31	1
Bromomethane	ND		0.50	0.10	ug/L			05/08/25 03:31	1
Carbon disulfide	0.12	J	1.0	0.10	ug/L			05/08/25 03:31	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			05/08/25 03:31	1
Chlorobenzene	ND		0.50	0.070	ug/L			05/08/25 03:31	1
Chloroethane	ND		0.50	0.10	ug/L			05/08/25 03:31	1
Chloroform	0.17	J	0.50	0.090	ug/L			05/08/25 03:31	1
Chloromethane	ND		0.50	0.10	ug/L			05/08/25 03:31	1
cis-1,2-Dichloroethene	0.13	J	0.50	0.080	ug/L			05/08/25 03:31	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/25 03:31	1
Dibromochloromethane	ND		0.50	0.080	ug/L			05/08/25 03:31	1
Ethylbenzene	ND		0.50	0.080	ug/L			05/08/25 03:31	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			05/08/25 03:31	1
Methylene Chloride	ND		0.50	0.20	ug/L			05/08/25 03:31	1
Styrene	ND		0.50	0.070	ug/L			05/08/25 03:31	1
Tetrachloroethene	ND		0.50	0.20	ug/L			05/08/25 03:31	1
Toluene	ND		0.50	0.080	ug/L			05/08/25 03:31	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 03:31	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/25 03:31	1
Trichloroethene	0.17	J	0.50	0.080	ug/L			05/08/25 03:31	1
Vinyl chloride	ND		0.50	0.10	ug/L			05/08/25 03:31	1
Xylenes, Total	ND		1.0	0.070	ug/L			05/08/25 03:31	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Client Sample ID: HD-COD-SW-27-0/1-0

Lab Sample ID: 410-219242-10

Date Collected: 04/24/25 10:50

Matrix: Water

Date Received: 04/25/25 16:44

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		05/08/25 03:31	1
4-Bromofluorobenzene (Surr)	99		80 - 120		05/08/25 03:31	1
Dibromofluoromethane (Surr)	100		80 - 120		05/08/25 03:31	1
Toluene-d8 (Surr)	101		80 - 120		05/08/25 03:31	1

Client Sample ID: HD-COD-SW-28-0/1-0

Lab Sample ID: 410-219242-11

Date Collected: 04/24/25 12:25

Matrix: Water

Date Received: 04/25/25 16:44

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		0.50	0.070	ug/L			05/08/25 03:52	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 03:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			05/08/25 03:52	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 03:52	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			05/08/25 03:52	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 03:52	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			05/08/25 03:52	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			05/08/25 03:52	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			05/08/25 03:52	1
2-Butanone (MEK)	ND	^c cn	5.0	1.0	ug/L			05/08/25 03:52	1
2-Hexanone	ND		5.0	2.0	ug/L			05/08/25 03:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			05/08/25 03:52	1
Acetone	ND		5.0	1.5	ug/L			05/08/25 03:52	1
Benzene	ND		0.50	0.10	ug/L			05/08/25 03:52	1
Bromochloromethane	ND		0.50	0.080	ug/L			05/08/25 03:52	1
Bromodichloromethane	ND		0.50	0.080	ug/L			05/08/25 03:52	1
Bromoform	ND		1.0	0.30	ug/L			05/08/25 03:52	1
Bromomethane	ND		0.50	0.10	ug/L			05/08/25 03:52	1
Carbon disulfide	ND		1.0	0.10	ug/L			05/08/25 03:52	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			05/08/25 03:52	1
Chlorobenzene	ND		0.50	0.070	ug/L			05/08/25 03:52	1
Chloroethane	ND		0.50	0.10	ug/L			05/08/25 03:52	1
Chloroform	0.12	J	0.50	0.090	ug/L			05/08/25 03:52	1
Chloromethane	ND		0.50	0.10	ug/L			05/08/25 03:52	1
cis-1,2-Dichloroethene	0.091	J	0.50	0.080	ug/L			05/08/25 03:52	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/25 03:52	1
Dibromochloromethane	ND		0.50	0.080	ug/L			05/08/25 03:52	1
Ethylbenzene	ND		0.50	0.080	ug/L			05/08/25 03:52	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			05/08/25 03:52	1
Methylene Chloride	ND		0.50	0.20	ug/L			05/08/25 03:52	1
Styrene	ND		0.50	0.070	ug/L			05/08/25 03:52	1
Tetrachloroethene	0.27	J	0.50	0.20	ug/L			05/08/25 03:52	1
Toluene	0.11	J	0.50	0.080	ug/L			05/08/25 03:52	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 03:52	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/25 03:52	1
Trichloroethene	0.16	J	0.50	0.080	ug/L			05/08/25 03:52	1
Vinyl chloride	ND		0.50	0.10	ug/L			05/08/25 03:52	1
Xylenes, Total	ND		1.0	0.070	ug/L			05/08/25 03:52	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Client Sample ID: HD-COD-SW-28-0/1-0

Lab Sample ID: 410-219242-11

Date Collected: 04/24/25 12:25

Matrix: Water

Date Received: 04/25/25 16:44

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		05/08/25 03:52	1
4-Bromofluorobenzene (Surr)	96		80 - 120		05/08/25 03:52	1
Dibromofluoromethane (Surr)	101		80 - 120		05/08/25 03:52	1
Toluene-d8 (Surr)	101		80 - 120		05/08/25 03:52	1

Client Sample ID: HD-COD-SW-29-0/1-0

Lab Sample ID: 410-219242-12

Date Collected: 04/24/25 08:32

Matrix: Water

Date Received: 04/25/25 16:44

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		0.50	0.070	ug/L			05/08/25 04:12	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 04:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			05/08/25 04:12	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 04:12	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			05/08/25 04:12	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 04:12	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			05/08/25 04:12	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			05/08/25 04:12	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			05/08/25 04:12	1
2-Butanone (MEK)	ND	^c cn	5.0	1.0	ug/L			05/08/25 04:12	1
2-Hexanone	ND		5.0	2.0	ug/L			05/08/25 04:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			05/08/25 04:12	1
Acetone	ND		5.0	1.5	ug/L			05/08/25 04:12	1
Benzene	ND		0.50	0.10	ug/L			05/08/25 04:12	1
Bromochloromethane	ND		0.50	0.080	ug/L			05/08/25 04:12	1
Bromodichloromethane	ND		0.50	0.080	ug/L			05/08/25 04:12	1
Bromoform	ND		1.0	0.30	ug/L			05/08/25 04:12	1
Bromomethane	ND		0.50	0.10	ug/L			05/08/25 04:12	1
Carbon disulfide	ND		1.0	0.10	ug/L			05/08/25 04:12	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			05/08/25 04:12	1
Chlorobenzene	ND		0.50	0.070	ug/L			05/08/25 04:12	1
Chloroethane	ND		0.50	0.10	ug/L			05/08/25 04:12	1
Chloroform	0.094	J	0.50	0.090	ug/L			05/08/25 04:12	1
Chloromethane	ND		0.50	0.10	ug/L			05/08/25 04:12	1
cis-1,2-Dichloroethene	0.16	J	0.50	0.080	ug/L			05/08/25 04:12	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/25 04:12	1
Dibromochloromethane	ND		0.50	0.080	ug/L			05/08/25 04:12	1
Ethylbenzene	ND		0.50	0.080	ug/L			05/08/25 04:12	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			05/08/25 04:12	1
Methylene Chloride	ND		0.50	0.20	ug/L			05/08/25 04:12	1
Styrene	ND		0.50	0.070	ug/L			05/08/25 04:12	1
Tetrachloroethene	0.57		0.50	0.20	ug/L			05/08/25 04:12	1
Toluene	0.11	J	0.50	0.080	ug/L			05/08/25 04:12	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 04:12	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/25 04:12	1
Trichloroethene	0.22	J	0.50	0.080	ug/L			05/08/25 04:12	1
Vinyl chloride	ND		0.50	0.10	ug/L			05/08/25 04:12	1
Xylenes, Total	ND		1.0	0.070	ug/L			05/08/25 04:12	1

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Client Sample ID: HD-COD-SW-29-0/1-0

Lab Sample ID: 410-219242-12

Date Collected: 04/24/25 08:32

Matrix: Water

Date Received: 04/25/25 16:44

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		05/08/25 04:12	1
4-Bromofluorobenzene (Surr)	96		80 - 120		05/08/25 04:12	1
Dibromofluoromethane (Surr)	100		80 - 120		05/08/25 04:12	1
Toluene-d8 (Surr)	100		80 - 120		05/08/25 04:12	1

Client Sample ID: HD-QC1-0/1-1

Lab Sample ID: 410-219242-13

Date Collected: 04/24/25 12:00

Matrix: Water

Date Received: 04/25/25 16:44

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		0.50	0.070	ug/L			05/08/25 07:19	1
1,1,1-Trichloroethane	12		0.50	0.080	ug/L			05/08/25 07:19	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			05/08/25 07:19	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			05/08/25 07:19	1
1,1-Dichloroethane	2.1		0.50	0.10	ug/L			05/08/25 07:19	1
1,1-Dichloroethene	0.93		0.50	0.10	ug/L			05/08/25 07:19	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			05/08/25 07:19	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			05/08/25 07:19	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			05/08/25 07:19	1
2-Butanone (MEK)	ND	^c cn	5.0	1.0	ug/L			05/08/25 07:19	1
2-Hexanone	ND		5.0	2.0	ug/L			05/08/25 07:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			05/08/25 07:19	1
Acetone	ND		5.0	1.5	ug/L			05/08/25 07:19	1
Benzene	ND		0.50	0.10	ug/L			05/08/25 07:19	1
Bromochloromethane	ND		0.50	0.080	ug/L			05/08/25 07:19	1
Bromodichloromethane	ND		0.50	0.080	ug/L			05/08/25 07:19	1
Bromoform	ND		1.0	0.30	ug/L			05/08/25 07:19	1
Bromomethane	ND		0.50	0.10	ug/L			05/08/25 07:19	1
Carbon disulfide	ND		1.0	0.10	ug/L			05/08/25 07:19	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			05/08/25 07:19	1
Chlorobenzene	ND		0.50	0.070	ug/L			05/08/25 07:19	1
Chloroethane	ND		0.50	0.10	ug/L			05/08/25 07:19	1
Chloroform	0.19	J	0.50	0.090	ug/L			05/08/25 07:19	1
Chloromethane	ND		0.50	0.10	ug/L			05/08/25 07:19	1
cis-1,2-Dichloroethene	2.1		0.50	0.080	ug/L			05/08/25 07:19	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/08/25 07:19	1
Dibromochloromethane	ND		0.50	0.080	ug/L			05/08/25 07:19	1
Ethylbenzene	ND		0.50	0.080	ug/L			05/08/25 07:19	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			05/08/25 07:19	1
Methylene Chloride	ND		0.50	0.20	ug/L			05/08/25 07:19	1
Styrene	ND		0.50	0.070	ug/L			05/08/25 07:19	1
Toluene	ND		0.50	0.080	ug/L			05/08/25 07:19	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			05/08/25 07:19	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/08/25 07:19	1
Trichloroethene	3.7		0.50	0.080	ug/L			05/08/25 07:19	1
Vinyl chloride	ND		0.50	0.10	ug/L			05/08/25 07:19	1
Xylenes, Total	ND		1.0	0.070	ug/L			05/08/25 07:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		05/08/25 07:19	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Client Sample ID: HD-QC1-0/1-1

Lab Sample ID: 410-219242-13

Date Collected: 04/24/25 12:00

Matrix: Water

Date Received: 04/25/25 16:44

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		05/08/25 07:19	1
Dibromofluoromethane (Surr)	103		80 - 120		05/08/25 07:19	1
Toluene-d8 (Surr)	98		80 - 120		05/08/25 07:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	140		10	4.0	ug/L			05/08/25 07:40	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		05/08/25 07:40	20
4-Bromofluorobenzene (Surr)	94		80 - 120		05/08/25 07:40	20
Dibromofluoromethane (Surr)	101		80 - 120		05/08/25 07:40	20
Toluene-d8 (Surr)	100		80 - 120		05/08/25 07:40	20

Client Sample ID: HD-QC1-0/1-2

Lab Sample ID: 410-219242-14

Date Collected: 04/24/25 00:00

Matrix: Water

Date Received: 04/25/25 16:44

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		0.50	0.070	ug/L			05/07/25 23:21	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			05/07/25 23:21	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			05/07/25 23:21	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			05/07/25 23:21	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			05/07/25 23:21	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			05/07/25 23:21	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			05/07/25 23:21	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			05/07/25 23:21	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			05/07/25 23:21	1
2-Butanone (MEK)	ND	^c cn	5.0	1.0	ug/L			05/07/25 23:21	1
2-Hexanone	ND		5.0	2.0	ug/L			05/07/25 23:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			05/07/25 23:21	1
Acetone	ND		5.0	1.5	ug/L			05/07/25 23:21	1
Benzene	ND		0.50	0.10	ug/L			05/07/25 23:21	1
Bromochloromethane	ND		0.50	0.080	ug/L			05/07/25 23:21	1
Bromodichloromethane	ND		0.50	0.080	ug/L			05/07/25 23:21	1
Bromoform	ND		1.0	0.30	ug/L			05/07/25 23:21	1
Bromomethane	ND		0.50	0.10	ug/L			05/07/25 23:21	1
Carbon disulfide	0.22	J	1.0	0.10	ug/L			05/07/25 23:21	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			05/07/25 23:21	1
Chlorobenzene	ND		0.50	0.070	ug/L			05/07/25 23:21	1
Chloroethane	ND		0.50	0.10	ug/L			05/07/25 23:21	1
Chloroform	ND		0.50	0.090	ug/L			05/07/25 23:21	1
Chloromethane	ND		0.50	0.10	ug/L			05/07/25 23:21	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			05/07/25 23:21	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/07/25 23:21	1
Dibromochloromethane	ND		0.50	0.080	ug/L			05/07/25 23:21	1
Ethylbenzene	ND		0.50	0.080	ug/L			05/07/25 23:21	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			05/07/25 23:21	1
Methylene Chloride	ND		0.50	0.20	ug/L			05/07/25 23:21	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Client Sample ID: HD-QC1-0/1-2

Lab Sample ID: 410-219242-14

Date Collected: 04/24/25 00:00

Matrix: Water

Date Received: 04/25/25 16:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.50	0.070	ug/L			05/07/25 23:21	1
Tetrachloroethene	ND		0.50	0.20	ug/L			05/07/25 23:21	1
Toluene	ND		0.50	0.080	ug/L			05/07/25 23:21	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			05/07/25 23:21	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/07/25 23:21	1
Trichloroethene	ND		0.50	0.080	ug/L			05/07/25 23:21	1
Vinyl chloride	ND		0.50	0.10	ug/L			05/07/25 23:21	1
Xylenes, Total	ND		1.0	0.070	ug/L			05/07/25 23:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		05/07/25 23:21	1
4-Bromofluorobenzene (Surr)	96		80 - 120		05/07/25 23:21	1
Dibromofluoromethane (Surr)	100		80 - 120		05/07/25 23:21	1
Toluene-d8 (Surr)	101		80 - 120		05/07/25 23:21	1

Default Detection Limits

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

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

Analyte	RL	MDL
1,1,1,2-Tetrachloroethane	0.50 ug/L	0.070 ug/L
1,1,1-Trichloroethane	0.50 ug/L	0.080 ug/L
1,1,2,2-Tetrachloroethane	0.50 ug/L	0.10 ug/L
1,1,2-Trichloroethane	0.50 ug/L	0.080 ug/L
1,1-Dichloroethane	0.50 ug/L	0.10 ug/L
1,1-Dichloroethene	0.50 ug/L	0.10 ug/L
1,2-Dibromoethane (EDB)	0.50 ug/L	0.080 ug/L
1,2-Dichloroethane	0.50 ug/L	0.070 ug/L
1,2-Dichloropropane	0.50 ug/L	0.10 ug/L
2-Butanone (MEK)	5.0 ug/L	1.0 ug/L
2-Hexanone	5.0 ug/L	2.0 ug/L
4-Methyl-2-pentanone (MIBK)	5.0 ug/L	1.0 ug/L
Acetone	5.0 ug/L	1.5 ug/L
Benzene	0.50 ug/L	0.10 ug/L
Bromochloromethane	0.50 ug/L	0.080 ug/L
Bromodichloromethane	0.50 ug/L	0.080 ug/L
Bromoform	1.0 ug/L	0.30 ug/L
Bromomethane	0.50 ug/L	0.10 ug/L
Carbon disulfide	1.0 ug/L	0.10 ug/L
Carbon tetrachloride	0.50 ug/L	0.10 ug/L
Chlorobenzene	0.50 ug/L	0.070 ug/L
Chloroethane	0.50 ug/L	0.10 ug/L
Chloroform	0.50 ug/L	0.090 ug/L
Chloromethane	0.50 ug/L	0.10 ug/L
cis-1,2-Dichloroethene	0.50 ug/L	0.080 ug/L
cis-1,3-Dichloropropene	0.50 ug/L	0.10 ug/L
Dibromochloromethane	0.50 ug/L	0.080 ug/L
Ethylbenzene	0.50 ug/L	0.080 ug/L
Methyl tert-butyl ether	0.50 ug/L	0.080 ug/L
Methylene Chloride	0.50 ug/L	0.20 ug/L
Styrene	0.50 ug/L	0.070 ug/L
Tetrachloroethene	0.50 ug/L	0.20 ug/L
Toluene	0.50 ug/L	0.080 ug/L
trans-1,2-Dichloroethene	0.50 ug/L	0.10 ug/L
trans-1,3-Dichloropropene	0.50 ug/L	0.080 ug/L
Trichloroethene	0.50 ug/L	0.080 ug/L
Vinyl chloride	0.50 ug/L	0.10 ug/L
Xylenes, Total	1.0 ug/L	0.070 ug/L

Surrogate Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

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)
410-219242-1	HD-COD-SW-6-0/1-0	101	96	101	103
410-219242-2	HD-COD-SW-7-0/1-0	104	96	101	101
410-219242-3	HD-COD-SW-8-0/1-0	103	96	100	101
410-219242-4	HD-COD-SW-9-0/1-0	105	96	104	101
410-219242-5	HD-COD-SW-13-0/1-0	103	97	99	101
410-219242-6	HD-COD-SW-15-0/1-0	102	96	101	102
410-219242-6 MS	HD-COD-SW-15-0/1-0 MS	105	98	102	102
410-219242-6 MSD	HD-COD-SW-15-0/1-0 MSD	104	99	101	102
410-219242-7	HD-COD-SW-16-0/1-0	102	97	100	101
410-219242-8	HD-COD-SW-17-0/1-0	96	94	102	96
410-219242-8 - DL	HD-COD-SW-17-0/1-0	105	94	101	101
410-219242-9	HD-COD-SW-26-0/1-0	103	97	102	101
410-219242-10	HD-COD-SW-27-0/1-0	99	99	100	101
410-219242-11	HD-COD-SW-28-0/1-0	102	96	101	101
410-219242-12	HD-COD-SW-29-0/1-0	104	96	100	100
410-219242-13	HD-QC1-0/1-1	103	96	103	98
410-219242-13 - DL	HD-QC1-0/1-1	100	94	101	100
410-219242-14	HD-QC1-0/1-2	101	96	100	101
LCS 410-640992/4	Lab Control Sample	104	97	101	102
MB 410-640992/6	Method Blank	104	95	100	99

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: fYNOP Monthly Surface Water

Job ID: 410-219242-1

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

Lab Sample ID: MB 410-640992/6

Matrix: Water

Analysis Batch: 640992

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		0.50	0.070	ug/L			05/07/25 22:58	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			05/07/25 22:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			05/07/25 22:58	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			05/07/25 22:58	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			05/07/25 22:58	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			05/07/25 22:58	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			05/07/25 22:58	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			05/07/25 22:58	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			05/07/25 22:58	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			05/07/25 22:58	1
2-Hexanone	ND		5.0	2.0	ug/L			05/07/25 22:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			05/07/25 22:58	1
Acetone	ND		5.0	1.5	ug/L			05/07/25 22:58	1
Benzene	ND		0.50	0.10	ug/L			05/07/25 22:58	1
Bromochloromethane	ND		0.50	0.080	ug/L			05/07/25 22:58	1
Bromodichloromethane	ND		0.50	0.080	ug/L			05/07/25 22:58	1
Bromoform	ND		1.0	0.30	ug/L			05/07/25 22:58	1
Bromomethane	ND		0.50	0.10	ug/L			05/07/25 22:58	1
Carbon disulfide	ND		1.0	0.10	ug/L			05/07/25 22:58	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			05/07/25 22:58	1
Chlorobenzene	ND		0.50	0.070	ug/L			05/07/25 22:58	1
Chloroethane	ND		0.50	0.10	ug/L			05/07/25 22:58	1
Chloroform	ND		0.50	0.090	ug/L			05/07/25 22:58	1
Chloromethane	ND		0.50	0.10	ug/L			05/07/25 22:58	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			05/07/25 22:58	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/07/25 22:58	1
Dibromochloromethane	ND		0.50	0.080	ug/L			05/07/25 22:58	1
Ethylbenzene	ND		0.50	0.080	ug/L			05/07/25 22:58	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			05/07/25 22:58	1
Methylene Chloride	ND		0.50	0.20	ug/L			05/07/25 22:58	1
Styrene	ND		0.50	0.070	ug/L			05/07/25 22:58	1
Tetrachloroethene	ND		0.50	0.20	ug/L			05/07/25 22:58	1
Toluene	ND		0.50	0.080	ug/L			05/07/25 22:58	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			05/07/25 22:58	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/07/25 22:58	1
Trichloroethene	ND		0.50	0.080	ug/L			05/07/25 22:58	1
Vinyl chloride	ND		0.50	0.10	ug/L			05/07/25 22:58	1
Xylenes, Total	ND		1.0	0.070	ug/L			05/07/25 22:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		05/07/25 22:58	1
4-Bromofluorobenzene (Surr)	95		80 - 120		05/07/25 22:58	1
Dibromofluoromethane (Surr)	100		80 - 120		05/07/25 22:58	1
Toluene-d8 (Surr)	99		80 - 120		05/07/25 22:58	1

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

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

Lab Sample ID: LCS 410-640992/4

Matrix: Water

Analysis Batch: 640992

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	5.00	4.99		ug/L		100	80 - 122
1,1,1-Trichloroethane	5.00	5.18		ug/L		104	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.23		ug/L		105	75 - 123
1,1,2-Trichloroethane	5.00	5.24		ug/L		105	80 - 120
1,1-Dichloroethane	5.00	5.63		ug/L		113	74 - 120
1,1-Dichloroethene	5.00	5.53		ug/L		111	80 - 131
1,2-Dibromoethane (EDB)	5.00	5.03		ug/L		101	80 - 120
1,2-Dichloroethane	5.00	5.29		ug/L		106	69 - 122
1,2-Dichloropropane	5.00	5.52		ug/L		110	80 - 120
2-Butanone (MEK)	62.5	73.2		ug/L		117	59 - 141
2-Hexanone	62.5	61.0		ug/L		98	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	68.3		ug/L		109	55 - 140
Acetone	62.5	65.2		ug/L		104	60 - 146
Benzene	5.00	5.22		ug/L		104	80 - 120
Bromochloromethane	5.00	5.35		ug/L		107	80 - 133
Bromodichloromethane	5.00	5.21		ug/L		104	80 - 123
Bromoform	5.00	4.83		ug/L		97	75 - 126
Bromomethane	5.00	4.55		ug/L		91	63 - 120
Carbon disulfide	5.00	4.78		ug/L		96	67 - 130
Carbon tetrachloride	5.00	5.05		ug/L		101	64 - 141
Chlorobenzene	5.00	5.09		ug/L		102	80 - 120
Chloroethane	5.00	5.13		ug/L		103	63 - 120
Chloroform	5.00	5.34		ug/L		107	80 - 120
Chloromethane	5.00	4.39		ug/L		88	56 - 124
cis-1,2-Dichloroethene	5.00	5.00		ug/L		100	80 - 122
cis-1,3-Dichloropropene	5.00	4.68		ug/L		94	67 - 121
Dibromochloromethane	5.00	5.03		ug/L		101	80 - 123
Ethylbenzene	5.00	5.23		ug/L		105	80 - 120
Methyl tert-butyl ether	5.00	4.59		ug/L		92	69 - 120
Methylene Chloride	5.00	5.53		ug/L		111	80 - 120
Styrene	5.00	5.41		ug/L		108	80 - 120
Tetrachloroethene	5.00	4.94		ug/L		99	80 - 120
Toluene	5.00	5.24		ug/L		105	80 - 120
trans-1,2-Dichloroethene	5.00	5.59		ug/L		112	80 - 122
trans-1,3-Dichloropropene	5.00	5.13		ug/L		103	61 - 129
Trichloroethene	5.00	5.13		ug/L		103	80 - 120
Vinyl chloride	5.00	4.52		ug/L		90	60 - 125
Xylenes, Total	15.0	15.8		ug/L		106	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		80 - 120
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	102		80 - 120

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

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

Lab Sample ID: 410-219242-6 MS

Matrix: Water

Analysis Batch: 640992

Client Sample ID: HD-COD-SW-15-0/1-0 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		5.00	5.11		ug/L		102	80 - 122
1,1,1-Trichloroethane	0.27	J	5.00	5.75		ug/L		110	78 - 126
1,1,2,2-Tetrachloroethane	ND		5.00	5.30		ug/L		106	75 - 123
1,1,2-Trichloroethane	ND		5.00	5.10		ug/L		102	80 - 120
1,1-Dichloroethane	ND		5.00	5.73		ug/L		114	74 - 120
1,1-Dichloroethene	0.16	J	5.00	6.21		ug/L		121	80 - 131
1,2-Dibromoethane (EDB)	ND		5.00	5.22		ug/L		104	80 - 120
1,2-Dichloroethane	ND		5.00	5.25		ug/L		105	69 - 122
1,2-Dichloropropane	ND		5.00	5.58		ug/L		111	80 - 120
2-Butanone (MEK)	ND	^c cn	62.6	55.9		ug/L		89	59 - 141
2-Hexanone	ND		62.6	48.2		ug/L		77	52 - 140
4-Methyl-2-pentanone (MIBK)	ND		62.6	55.1		ug/L		88	55 - 140
Acetone	ND		62.6	55.6		ug/L		89	60 - 146
Benzene	ND		5.00	5.32		ug/L		106	80 - 120
Bromochloromethane	ND		5.00	5.24		ug/L		105	80 - 133
Bromodichloromethane	ND		5.00	5.36		ug/L		107	80 - 123
Bromoform	ND		5.00	5.06		ug/L		101	75 - 126
Bromomethane	ND		5.00	4.84		ug/L		97	63 - 120
Carbon disulfide	ND		5.00	5.18		ug/L		103	67 - 130
Carbon tetrachloride	ND		5.00	5.59		ug/L		112	64 - 141
Chlorobenzene	ND		5.00	5.21		ug/L		104	80 - 120
Chloroethane	ND		5.00	5.47		ug/L		109	63 - 120
Chloroform	0.18	J	5.00	5.69		ug/L		110	80 - 120
Chloromethane	ND		5.00	4.39		ug/L		88	80 - 120
cis-1,2-Dichloroethene	0.75		5.00	5.91		ug/L		103	80 - 122
cis-1,3-Dichloropropene	ND		5.00	4.80		ug/L		96	67 - 121
Dibromochloromethane	ND		5.00	5.25		ug/L		105	80 - 123
Ethylbenzene	ND		5.00	5.47		ug/L		109	80 - 120
Methyl tert-butyl ether	ND		5.00	4.67		ug/L		93	69 - 120
Methylene Chloride	ND		5.00	5.57		ug/L		111	80 - 120
Styrene	ND		5.00	5.52		ug/L		110	80 - 120
Tetrachloroethene	4.9		5.00	10.2		ug/L		107	80 - 120
Toluene	ND		5.00	5.33		ug/L		107	80 - 120
trans-1,2-Dichloroethene	ND		5.00	5.65		ug/L		113	80 - 122
trans-1,3-Dichloropropene	ND		5.00	5.20		ug/L		104	61 - 129
Trichloroethene	1.2		5.00	6.64		ug/L		109	80 - 120
Vinyl chloride	ND		5.00	5.10		ug/L		102	60 - 125
Xylenes, Total	ND		15.0	16.2		ug/L		108	80 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	102		80 - 120

QC Sample Results

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

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

Lab Sample ID: 410-219242-6 MSD

Matrix: Water

Analysis Batch: 640992

Client Sample ID: HD-COD-SW-15-0/1-0 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		5.00	5.30		ug/L		106	80 - 122	4	30
1,1,1-Trichloroethane	0.27	J	5.00	5.97		ug/L		114	78 - 126	4	30
1,1,2,2-Tetrachloroethane	ND		5.00	5.25		ug/L		105	75 - 123	1	30
1,1,2-Trichloroethane	ND		5.00	5.30		ug/L		106	80 - 120	4	30
1,1-Dichloroethane	ND		5.00	5.95		ug/L		119	74 - 120	4	30
1,1-Dichloroethene	0.16	J	5.00	6.29		ug/L		123	80 - 131	1	30
1,2-Dibromoethane (EDB)	ND		5.00	5.34		ug/L		107	80 - 120	2	30
1,2-Dichloroethane	ND		5.00	5.57		ug/L		111	69 - 122	6	30
1,2-Dichloropropane	ND		5.00	5.84		ug/L		117	80 - 120	5	30
2-Butanone (MEK)	ND	^c cn	62.6	71.8		ug/L		115	59 - 141	25	30
2-Hexanone	ND		62.6	60.9		ug/L		97	52 - 140	23	30
4-Methyl-2-pentanone (MIBK)	ND		62.6	67.5		ug/L		108	55 - 140	20	30
Acetone	ND		62.6	61.0		ug/L		97	60 - 146	9	30
Benzene	ND		5.00	5.50		ug/L		110	80 - 120	3	30
Bromochloromethane	ND		5.00	5.60		ug/L		112	80 - 133	7	30
Bromodichloromethane	ND		5.00	5.57		ug/L		111	80 - 123	4	30
Bromoform	ND		5.00	5.12		ug/L		102	75 - 126	1	30
Bromomethane	ND		5.00	4.85		ug/L		97	63 - 120	0	30
Carbon disulfide	ND		5.00	5.28		ug/L		106	67 - 130	2	30
Carbon tetrachloride	ND		5.00	5.69		ug/L		114	64 - 141	2	30
Chlorobenzene	ND		5.00	5.37		ug/L		107	80 - 120	3	30
Chloroethane	ND		5.00	5.59		ug/L		112	63 - 120	2	30
Chloroform	0.18	J	5.00	5.81		ug/L		112	80 - 120	2	30
Chloromethane	ND		5.00	4.60		ug/L		92	80 - 120	5	30
cis-1,2-Dichloroethene	0.75		5.00	6.02		ug/L		105	80 - 122	2	30
cis-1,3-Dichloropropene	ND		5.00	5.00		ug/L		100	67 - 121	4	30
Dibromochloromethane	ND		5.00	5.40		ug/L		108	80 - 123	3	30
Ethylbenzene	ND		5.00	5.63		ug/L		113	80 - 120	3	30
Methyl tert-butyl ether	ND		5.00	4.72		ug/L		94	69 - 120	1	30
Methylene Chloride	ND		5.00	5.66		ug/L		113	80 - 120	2	30
Styrene	ND		5.00	5.76		ug/L		115	80 - 120	4	30
Tetrachloroethene	4.9		5.00	10.3		ug/L		109	80 - 120	1	30
Toluene	ND		5.00	5.52		ug/L		110	80 - 120	3	30
trans-1,2-Dichloroethene	ND		5.00	5.82		ug/L		116	80 - 122	3	30
trans-1,3-Dichloropropene	ND		5.00	5.34		ug/L		107	61 - 129	3	30
Trichloroethene	1.2		5.00	6.84		ug/L		113	80 - 120	3	30
Vinyl chloride	ND		5.00	4.95		ug/L		99	60 - 125	3	30
Xylenes, Total	ND		15.0	16.9		ug/L		112	80 - 120	4	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		80 - 120
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	102		80 - 120

QC Association Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

GC/MS VOA

Analysis Batch: 640992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-219242-1	HD-COD-SW-6-0/1-0	Total/NA	Water	8260D	
410-219242-2	HD-COD-SW-7-0/1-0	Total/NA	Water	8260D	
410-219242-3	HD-COD-SW-8-0/1-0	Total/NA	Water	8260D	
410-219242-4	HD-COD-SW-9-0/1-0	Total/NA	Water	8260D	
410-219242-5	HD-COD-SW-13-0/1-0	Total/NA	Water	8260D	
410-219242-6	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	
410-219242-7	HD-COD-SW-16-0/1-0	Total/NA	Water	8260D	
410-219242-8	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-219242-8 - DL	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-219242-9	HD-COD-SW-26-0/1-0	Total/NA	Water	8260D	
410-219242-10	HD-COD-SW-27-0/1-0	Total/NA	Water	8260D	
410-219242-11	HD-COD-SW-28-0/1-0	Total/NA	Water	8260D	
410-219242-12	HD-COD-SW-29-0/1-0	Total/NA	Water	8260D	
410-219242-13	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-219242-13 - DL	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-219242-14	HD-QC1-0/1-2	Total/NA	Water	8260D	
MB 410-640992/6	Method Blank	Total/NA	Water	8260D	
LCS 410-640992/4	Lab Control Sample	Total/NA	Water	8260D	
410-219242-6 MS	HD-COD-SW-15-0/1-0 MS	Total/NA	Water	8260D	
410-219242-6 MSD	HD-COD-SW-15-0/1-0 MSD	Total/NA	Water	8260D	

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Client Sample ID: HD-COD-SW-6-0/1-0

Lab Sample ID: 410-219242-1

Date Collected: 04/24/25 10:00

Matrix: Water

Date Received: 04/25/25 16:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	640992	JS6E	ELLE	05/08/25 00:03

Client Sample ID: HD-COD-SW-7-0/1-0

Lab Sample ID: 410-219242-2

Date Collected: 04/24/25 10:37

Matrix: Water

Date Received: 04/25/25 16:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	640992	JS6E	ELLE	05/08/25 00:24

Client Sample ID: HD-COD-SW-8-0/1-0

Lab Sample ID: 410-219242-3

Date Collected: 04/24/25 08:47

Matrix: Water

Date Received: 04/25/25 16:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	640992	JS6E	ELLE	05/08/25 00:45

Client Sample ID: HD-COD-SW-9-0/1-0

Lab Sample ID: 410-219242-4

Date Collected: 04/24/25 12:10

Matrix: Water

Date Received: 04/25/25 16:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	640992	JS6E	ELLE	05/08/25 01:06

Client Sample ID: HD-COD-SW-13-0/1-0

Lab Sample ID: 410-219242-5

Date Collected: 04/24/25 09:03

Matrix: Water

Date Received: 04/25/25 16:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	640992	JS6E	ELLE	05/08/25 01:27

Client Sample ID: HD-COD-SW-15-0/1-0

Lab Sample ID: 410-219242-6

Date Collected: 04/24/25 11:00

Matrix: Water

Date Received: 04/25/25 16:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	640992	JS6E	ELLE	05/08/25 01:47

Client Sample ID: HD-COD-SW-16-0/1-0

Lab Sample ID: 410-219242-7

Date Collected: 04/24/25 09:20

Matrix: Water

Date Received: 04/25/25 16:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	640992	JS6E	ELLE	05/08/25 02:50

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Client Sample ID: HD-COD-SW-17-0/1-0

Lab Sample ID: 410-219242-8

Date Collected: 04/24/25 09:30

Matrix: Water

Date Received: 04/25/25 16:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	640992	JS6E	ELLE	05/08/25 06:38
Total/NA	Analysis	8260D	DL	20	640992	JS6E	ELLE	05/08/25 06:58

Client Sample ID: HD-COD-SW-26-0/1-0

Lab Sample ID: 410-219242-9

Date Collected: 04/24/25 10:17

Matrix: Water

Date Received: 04/25/25 16:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	640992	JS6E	ELLE	05/08/25 03:10

Client Sample ID: HD-COD-SW-27-0/1-0

Lab Sample ID: 410-219242-10

Date Collected: 04/24/25 10:50

Matrix: Water

Date Received: 04/25/25 16:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	640992	JS6E	ELLE	05/08/25 03:31

Client Sample ID: HD-COD-SW-28-0/1-0

Lab Sample ID: 410-219242-11

Date Collected: 04/24/25 12:25

Matrix: Water

Date Received: 04/25/25 16:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	640992	JS6E	ELLE	05/08/25 03:52

Client Sample ID: HD-COD-SW-29-0/1-0

Lab Sample ID: 410-219242-12

Date Collected: 04/24/25 08:32

Matrix: Water

Date Received: 04/25/25 16:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	640992	JS6E	ELLE	05/08/25 04:12

Client Sample ID: HD-QC1-0/1-1

Lab Sample ID: 410-219242-13

Date Collected: 04/24/25 12:00

Matrix: Water

Date Received: 04/25/25 16:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	640992	JS6E	ELLE	05/08/25 07:19
Total/NA	Analysis	8260D	DL	20	640992	JS6E	ELLE	05/08/25 07:40

Client Sample ID: HD-QC1-0/1-2

Lab Sample ID: 410-219242-14

Date Collected: 04/24/25 00:00

Matrix: Water

Date Received: 04/25/25 16:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	640992	JS6E	ELLE	05/07/25 23:21

Lab Chronicle

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

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: fYNOP Monthly Surface Water

Job ID: 410-219242-1

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	01-31-26

Method Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP Monthly Surface Water

Job ID: 410-219242-1

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: fYNOP Monthly Surface Water

Job ID: 410-219242-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-219242-1	HD-COD-SW-6-0/1-0	Water	04/24/25 10:00	04/25/25 16:44
410-219242-2	HD-COD-SW-7-0/1-0	Water	04/24/25 10:37	04/25/25 16:44
410-219242-3	HD-COD-SW-8-0/1-0	Water	04/24/25 08:47	04/25/25 16:44
410-219242-4	HD-COD-SW-9-0/1-0	Water	04/24/25 12:10	04/25/25 16:44
410-219242-5	HD-COD-SW-13-0/1-0	Water	04/24/25 09:03	04/25/25 16:44
410-219242-6	HD-COD-SW-15-0/1-0	Water	04/24/25 11:00	04/25/25 16:44
410-219242-7	HD-COD-SW-16-0/1-0	Water	04/24/25 09:20	04/25/25 16:44
410-219242-8	HD-COD-SW-17-0/1-0	Water	04/24/25 09:30	04/25/25 16:44
410-219242-9	HD-COD-SW-26-0/1-0	Water	04/24/25 10:17	04/25/25 16:44
410-219242-10	HD-COD-SW-27-0/1-0	Water	04/24/25 10:50	04/25/25 16:44
410-219242-11	HD-COD-SW-28-0/1-0	Water	04/24/25 12:25	04/25/25 16:44
410-219242-12	HD-COD-SW-29-0/1-0	Water	04/24/25 08:32	04/25/25 16:44
410-219242-13	HD-QC1-0/1-1	Water	04/24/25 12:00	04/25/25 16:44
410-219242-14	HD-QC1-0/1-2	Water	04/24/25 00:00	04/25/25 16:44

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-219242-1

SDG No.:

Instrument ID: 19094

Analysis Batch Number: 623992

Lab Sample ID: IC 410-623992/13

Client Sample ID:

Date Analyzed: 03/31/25 15:52

Lab File ID: HM31X12.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.12	Other	UKEK	04/11/25 08:10
Bromomethane	2.42	Incomplete Integration	N7YK	04/01/25 15:57
Dichlorofluoromethane	2.72	Incomplete Integration	N7YK	04/01/25 15:57
Carbon disulfide	3.56	Incomplete Integration	N7YK	04/01/25 15:58
2-Chloro-1,3-butadiene	5.05	Incomplete Integration	N7YK	04/01/25 15:58
Chloroform	6.26	Incomplete Integration	N7YK	04/01/25 15:58
Carbon tetrachloride	6.70	Incomplete Integration	N7YK	04/01/25 15:59
1,1-Dichloropropene	6.72	Incomplete Integration	N7YK	04/01/25 15:58
Methylcyclohexane	8.19	Incomplete Integration	N7YK	04/01/25 15:59
4-Methyl-2-pentanone (MIBK)	9.34	Other	UKEK	04/11/25 08:29
Tetrachloroethene	10.13	Other	UKEK	04/11/25 08:32
1,3-Dichloropropane	10.21	Other	UKEK	04/11/25 08:32
m&p-Xylene	11.23	Incomplete Integration	N7YK	04/01/25 15:59
n-Butylbenzene	13.16	Incomplete Integration	N7YK	04/01/25 16:00
1,3,5-Trichlorobenzene	13.87	Incomplete Integration	N7YK	04/01/25 16:00

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-219242-1

SDG No.:

Instrument ID: 19094

Analysis Batch Number: 623992

Lab Sample ID: IC 410-623992/14

Client Sample ID:

Date Analyzed: 03/31/25 16:13

Lab File ID: HM31X13.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Freon 123a	3.07	Incomplete Integration	N7YK	04/01/25 16:01
Acrolein	3.22	Incomplete Integration	N7YK	04/01/25 16:02
Acetone	3.45	Incomplete Integration	N7YK	04/01/25 16:02
t-Butyl alcohol	4.02	Incomplete Integration	N7YK	04/01/25 16:02
1,1-Dichloroethane	4.94	Incomplete Integration	N7YK	04/01/25 16:03
cis-1,2-Dichloroethene	5.81	Other	UKEK	04/11/25 08:54
Methacrylonitrile	6.11	Incomplete Integration	N7YK	04/01/25 16:03
Dibromomethane	8.34	Incomplete Integration	N7YK	04/02/25 15:16
2-Nitropropane	8.85	Incomplete Integration	N7YK	04/01/25 16:04
1-Bromo-2-chloroethane	8.99	Incomplete Integration	N7YK	04/01/25 16:04
cis-1,3-Dichloropropene	9.18	Incomplete Integration	N7YK	04/01/25 16:04
trans-1,3-Dichloropropene	9.87	Incomplete Integration	N7YK	04/01/25 16:04
Ethyl methacrylate	9.93	Incomplete Integration	N7YK	04/01/25 16:04
1,1,2-Trichloroethane	10.05	Incomplete Integration	N7YK	04/01/25 16:04
1-Chlorohexane	11.00	Incomplete Integration	N7YK	04/01/25 16:04
n-Butylbenzene	13.15	Incomplete Integration	N7YK	04/01/25 16:05
Naphthalene	14.48	Incomplete Integration	N7YK	04/01/25 16:05

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-219242-1

SDG No.:

Instrument ID: 19094

Analysis Batch Number: 623992

Lab Sample ID: IC 410-623992/15

Client Sample ID:

Date Analyzed: 03/31/25 16:34

Lab File ID: HM31X14.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.76	Incomplete Integration	N7YK	04/01/25 16:06
t-Butyl alcohol	3.96	Incomplete Integration	N7YK	04/01/25 16:06
Dibromomethane	8.34	Incomplete Integration	N7YK	04/01/25 16:07
2-Nitropropane	8.84	Incomplete Integration	N7YK	04/01/25 16:07
1-Bromo-2-chloroethane	8.98	Incomplete Integration	N7YK	04/01/25 16:07
cis-1,3-Dichloropropene	9.16	Incomplete Integration	N7YK	04/01/25 16:07
trans-1,3-Dichloropropene	9.84	Incomplete Integration	N7YK	04/01/25 16:07
Ethyl methacrylate	9.92	Incomplete Integration	N7YK	04/01/25 16:07

Lab Sample ID: IC 410-623992/16

Client Sample ID:

Date Analyzed: 03/31/25 16:54

Lab File ID: HM31X15.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propionitrile	5.92	Other	UKEK	04/11/25 09:46
n-Butanol	8.01	Incomplete Integration	DVW2	04/10/25 10:34

Lab Sample ID: IC 410-623992/17

Client Sample ID:

Date Analyzed: 03/31/25 17:16

Lab File ID: HM31X16.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.41	Incomplete Integration	N7YK	04/01/25 16:13
Methyl acetate	3.73	Incomplete Integration	DVW2	04/10/25 10:10
Acrylonitrile	4.26	Incomplete Integration	DVW2	04/10/25 10:16
Propionitrile	5.89	Other	UKEK	04/11/25 09:46
n-Butanol	7.92	Incomplete Integration	DVW2	04/10/25 10:34
1,4-Dioxane	8.32	Incomplete Integration	N7YK	04/01/25 16:14

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-219242-1

SDG No.:

Instrument ID: 19094

Analysis Batch Number: 623992

Lab Sample ID: IC 410-623992/18

Client Sample ID:

Date Analyzed: 03/31/25 17:36

Lab File ID: HM31X17.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.72	Other	UKEK	04/11/25 09:49
t-Butyl alcohol	4.01	Other	UKEK	04/11/25 09:48
Acrylonitrile	4.28	Other	UKEK	04/11/25 09:48
Propionitrile	5.88	Other	UKEK	04/11/25 09:47
n-Butanol	7.83	Incomplete Integration	DVW2	04/10/25 10:34
1,4-Dioxane	8.34	Incomplete Integration	N7YK	04/01/25 16:17

Lab Sample ID: IC 410-623992/19

Client Sample ID:

Date Analyzed: 03/31/25 17:57

Lab File ID: HM31X18.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.68	Incomplete Integration	N7YK	04/01/25 16:18
t-Butyl alcohol	3.97	Incomplete Integration	N7YK	04/02/25 15:26
1,4-Dioxane	8.32	Incomplete Integration	N7YK	04/01/25 16:19

Lab Sample ID: ICIS 410-623992/20

Client Sample ID:

Date Analyzed: 03/31/25 18:18

Lab File ID: HM31X19.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.69	Incomplete Integration	N7YK	04/01/25 16:20
Acrylonitrile	4.22	Other	UKEK	04/11/25 09:53
1,4-Dioxane	8.33	Incomplete Integration	N7YK	04/01/25 16:20

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-219242-1

SDG No.:

Instrument ID: 19094

Analysis Batch Number: 623992

Lab Sample ID: IC 410-623992/21

Client Sample ID:

Date Analyzed: 03/31/25 18:38

Lab File ID: HM31X20.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.68	Incomplete Integration	DVW2	04/10/25 10:10
Methylene Chloride	3.89	Other	UKEK	04/11/25 09:37
Acrylonitrile	4.21	Other	UKEK	04/11/25 09:56
1,4-Dioxane	8.33	Incomplete Integration	N7YK	04/01/25 16:22

Lab Sample ID: ICV 410-623992/23

Client Sample ID:

Date Analyzed: 03/31/25 19:20

Lab File ID: HM31X22.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.32	Incomplete Integration	N7YK	04/01/25 16:24

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-219242-1

SDG No.:

Instrument ID: 19094

Analysis Batch Number: 640992

Lab Sample ID: CCVIS 410-640992/3

Client Sample ID:

Date Analyzed: 05/07/25 21:56

Lab File ID: HY07X32.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.70	Incomplete Integration	JS6E	05/07/25 22:42
1,4-Dioxane	8.32	Incomplete Integration	JS6E	05/07/25 22:47

Lab Sample ID: 410-219242-1

Client Sample ID: HD-COD-SW-6-0/1-0

Date Analyzed: 05/08/25 00:03

Lab File ID: HY07X38.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	5.80	Incomplete Integration	N7YK	05/08/25 09:24
Trichloroethene	7.90	Incomplete Integration	N7YK	05/08/25 09:24

Lab Sample ID: 410-219242-2

Client Sample ID: HD-COD-SW-7-0/1-0

Date Analyzed: 05/08/25 00:24

Lab File ID: HY07X39.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.57	Incomplete Integration	N7YK	05/08/25 09:25
Trichloroethene	7.90	Incomplete Integration	N7YK	05/08/25 09:25
Tetrachloroethene	10.12	Incomplete Integration	N7YK	05/08/25 09:26

Lab Sample ID: 410-219242-3

Client Sample ID: HD-COD-SW-8-0/1-0

Date Analyzed: 05/08/25 00:45

Lab File ID: HY07X40.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.56	Incomplete Integration	N7YK	05/08/25 09:26
cis-1,2-Dichloroethene	5.80	Incomplete Integration	N7YK	05/08/25 09:26
Chloroform	6.26	Incomplete Integration	N7YK	05/08/25 09:26
Trichloroethene	7.89	Incomplete Integration	N7YK	05/08/25 09:27

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-219242-1

SDG No.:

Instrument ID: 19094

Analysis Batch Number: 640992

Lab Sample ID: 410-219242-4

Client Sample ID: HD-COD-SW-9-0/1-0

Date Analyzed: 05/08/25 01:06

Lab File ID: HY07X41.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.56	Incomplete Integration	N7YK	05/08/25 09:28
Trichloroethene	7.90	Incomplete Integration	N7YK	05/08/25 09:28

Lab Sample ID: 410-219242-7

Client Sample ID: HD-COD-SW-16-0/1-0

Date Analyzed: 05/08/25 02:50

Lab File ID: HY07X46.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.88	Incomplete Integration	N7YK	05/08/25 10:08

Lab Sample ID: 410-219242-9

Client Sample ID: HD-COD-SW-26-0/1-0

Date Analyzed: 05/08/25 03:10

Lab File ID: HY07X47.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	5.80	Incomplete Integration	N7YK	05/08/25 10:09
1,1,2-Trichloroethane		Invalid Compound ID	N7YK	05/08/25 10:09

Lab Sample ID: 410-219242-10

Client Sample ID: HD-COD-SW-27-0/1-0

Date Analyzed: 05/08/25 03:31

Lab File ID: HY07X48.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.56	Incomplete Integration	N7YK	05/08/25 10:10
Chloroform	6.27	Incomplete Integration	N7YK	05/08/25 10:11
Trichloroethene	7.90	Incomplete Integration	N7YK	05/08/25 10:11
Tetrachloroethene	10.12	Incomplete Integration	N7YK	05/08/25 10:11

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-219242-1

SDG No.:

Instrument ID: 19094

Analysis Batch Number: 640992

Lab Sample ID: 410-219242-11

Client Sample ID: HD-COD-SW-28-0/1-0

Date Analyzed: 05/08/25 03:52

Lab File ID: HY07X49.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.57	Incomplete Integration	N7YK	05/08/25 10:11
Trichloroethene	7.89	Incomplete Integration	N7YK	05/08/25 10:12
Tetrachloroethene	10.13	Incomplete Integration	N7YK	05/08/25 10:12

Lab Sample ID: 410-219242-12

Client Sample ID: HD-COD-SW-29-0/1-0

Date Analyzed: 05/08/25 04:12

Lab File ID: HY07X50.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.57	Incomplete Integration	N7YK	05/08/25 10:13
Trichloroethene	7.90	Incomplete Integration	N7YK	05/08/25 10:13
1,1,1-Trichloroethane		Invalid Compound ID	N7YK	05/08/25 10:13

Lab Sample ID: 410-219242-8

Client Sample ID: HD-COD-SW-17-0/1-0

Date Analyzed: 05/08/25 06:38

Lab File ID: HY07X57.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
trans-1,2-Dichloroethene	4.32	Incomplete Integration	N7YK	05/08/25 10:17

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-219242-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_LCS_VOC#1_00214	04/23/25	03/24/25	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00261	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_00258	1 mL	Carbon disulfide	40 ug/mL
					MSV_Q_Ketones_00257	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_00261	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	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-219242-1

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
.MSV_M_MIX2SEC_00258	05/31/27		Restek, Lot A0212017		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
.MSV_Q_Ketones_00257	04/30/27		Restek, Lot A0209876		(Purchased Reagent)		Methyl tert-butyl ether	1000 ug/mL
							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_00217	05/28/25	04/28/25	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00265	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-219242-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00266	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
							MSV_Q_Ketones_00259	1 mL
					2-Hexanone	500 ug/mL		
					4-Methyl-2-pentanone (MIBK)	500 ug/mL		
.MSV_M_MIX1SEC_00265	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		
					Trichloroethene	1000 ug/mL		
					.MSV_M_MIX2SEC_00266	05/31/27	Restek, Lot A0212017	
	Methyl tert-butyl ether	1000 ug/mL						
.MSV_Q_Ketones_00259	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_LL_#1_826_00163	04/30/25	03/31/25	Methanol, Lot EJ274	1 mL	MSV_CCV_VOC#1_00229	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-219242-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC

Job No.: 410-219242-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							2-Nitropropane	250 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Acrylonitrile	125 ug/mL
							Benzyl chloride	50 ug/mL
							Carbon disulfide	50 ug/mL
							Cyclohexane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropyl ether	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl acetate	50 ug/mL
							Methyl methacrylate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							n-Butanol	4375 ug/mL
							n-Heptane	50 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
							Tetrahydrofuran	250 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_CCV_VOC#3_00230	200 uL	Acrolein	2439.54 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_V_VOA2_00283	150 uL	1,4-Dioxane	2500 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	4375 ug/mL
							Propionitrile	1000 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
							1,1,1,2-Tetrachloroethane	1000 ug/mL
.MSV_CCV_VOC#1_00229	04/30/25	03/31/25	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00228	1 mL	1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-219242-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-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-Trichloropropene	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-Dichloropropene	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-219242-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00225	1 mL	1,1,2-Trichloro-1,2,2-trifluor oethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-Methyl-2-propanol	5000 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 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
							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_00228	04/30/25	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
							1,1-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
							1,2-Dibromo-3-Chloropropane	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-219242-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00225	04/30/25	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
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-219242-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-Methyl-2-propanol	25000 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 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
							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_00230	04/30/25	03/31/25	Methanol, Lot EH471	5 mL	MSV_CCV_ACR_00026	0.5 mL	Acrolein	12197.7 ug/mL
					MSV_V_Ketones_00221	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_00026	05/05/25	03/06/25	Methanol, Lot EH471	10 mL	MSV_VACR_STK_00046	8.537 mL	Acrolein	121977 ug/mL
...MSV_VACR_STK_00046	05/05/25	03/06/25	Methanol, Lot EH471	10 mL	MSV_ACROLEIN_00039	1.538 g	Acrolein	142880 ug/mL
....MSV_ACROLEIN_00039	08/31/25	Chem Service, Lot 15807600			(Purchased Reagent)		Acrolein	0.929 g/g
..MSV_V_Ketones_00221	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_V_VOA2_00283	04/30/25	03/31/25	Methanol, Lot EH471	5 mL	MSV_V#2B_00421	1 mL	1,4-Dioxane	12500 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Methacrylonitrile	2500 ug/mL
							n-Butanol	25000 ug/mL
							Propionitrile	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_V#2B_00421	05/31/26	Restek, Lot A0211456			(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-219242-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isobutyl alcohol	62500 ug/mL
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_LL_#1_826_00166	06/04/25	05/05/25	Methanol, Lot EJ274	1 mL	MSV_CCV_VOC#1_00234	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Carbon disulfide	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
					MSV_CCV_VOC#3_00235	200 uL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
.MSV_CCV_VOC#1_00234	06/04/25	05/05/25	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00226	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-219242-1

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
							Trichloroethene	1000 ug/mL
							Carbon disulfide	1000 ug/mL
..MSV_MegaMIX#1_00226	06/04/25	Restek, Lot A0211483			MSV_MegaMix#2_00234	1 mL	Methyl tert-butyl ether	1000 ug/mL
					(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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC

Job No.: 410-219242-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	5000 ug/mL
..MSV_MegaMix#2_00234	06/04/25		Restek, Lot A0212010		(Purchased Reagent)		Trichloroethene	5000 ug/mL
							Carbon disulfide	5000 ug/mL
.MSV_CCV_VOC#3_00235	06/04/25	05/05/25	Methanol, Lot EH471	5 mL	MSV_V_Ketones_00233	1 mL	Methyl tert-butyl ether	5000 ug/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_00233	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_LL_#2_826_00174	04/25/25	03/31/25	Methanol, Lot EJ274	1 mL	CCV_ETBR_00008	50 uL	Ethyl bromide	50.0802 ug/mL
					MSV_BCE_00079	25 uL	1-Bromo-2-chloroethane	50 ug/mL
					MSV_CCV_EE_00008	50 uL	Ethyl ether	49.9966 ug/mL
					MSV_V_PentaCL_00057	10 uL	Pentachloroethane	50 ug/mL
.CCV_ETBR_00008	05/06/25	11/06/24	Methanol, Lot EH471	10 mL	MSV_VETBR_STK_00017	0.191 mL	Ethyl bromide	1001.6 ug/mL
..MSV_VETBR_STK_00017	05/06/25	11/06/24	Methanol, Lot EH471	10 mL	MSV_EtBr_00010	0.5244 g	Ethyl bromide	52440 ug/mL
...MSV_EtBr_00010	06/30/25		Chem Service, Lot 13345600		(Purchased Reagent)		Ethyl bromide	1 g/g
.MSV_BCE_00079	04/30/25		Restek, Lot A0201612		(Purchased Reagent)		1-Bromo-2-chloroethane	2000 ug/mL
.MSV_CCV_EE_00008	05/06/25	11/06/24	Methanol, Lot EH471	50 mL	MSV_EE_MISCSK_00015	1.115 mL	Ethyl ether	999.932 ug/mL
..MSV_EE_MISCSK_00015	05/06/25	11/06/24	Methanol, Lot EH471	10 mL	MSV_EE_Neat_00012	0.4484 g	Ethyl ether	44840 ug/mL
...MSV_EE_Neat_00012	06/30/27		Chem Service, Lot 14084700		(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_PentaCL_00057	04/25/25		Restek, Lot A0197490		(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_GAS826_00264	04/07/25	03/31/25	Methanol, Lot EJ274	1 mL	MSV_CCV_GASES_00998	25 uL	1,2-Dichloro-1,1,2-trifluoroethane	50 ug/mL
							Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00998	04/07/25		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_LL_GAS826_00270	05/12/25	05/05/25	Methanol, Lot EJ274	1 mL	MSV_CCV_GASES_01006	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-219242-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_01006	05/12/25		Restek, Lot A0212054		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LLcentISS_00016	09/12/25	03/12/25	Methanol, Lot EJ274	50 mL	MSV_8260_SS_01410	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_Cus826_IS_00674	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_01410	09/30/29		Restek, Lot A0216253		(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_00674	10/31/26		Restek, Lot A0203141		(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_QC_Gas826_00252	04/07/25	03/31/25	Methanol, Lot EJ274	1 mL	MSV_QC_2K_GAS_00296	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00296	04/07/25		Restek, Lot A0211460		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QC_Gas826_00258	05/12/25	05/05/25	Methanol, Lot EJ274	1 mL	MSV_QC_2K_GAS_00300	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00300	05/12/25		Restek, Lot A0211460		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_V_BFB_00018							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Xylenes, Total	
.MSV_VBFB_STK_00013	05/31/25	12/02/24	Methanol, Lot EH471	10 mL	MSV_VBFB_STK_00013	0.09 mL	BFB	50.076 ug/mL
					MSV_4BFB_NEAT_00012	1.391 g	BFB	139100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-219242-1
Testing, LLC

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MSV_4BFB_NEAT_00012	05/31/25		Chem Service, Lot 15267000		(Purchased Reagent)		BFB	1 g/g

Reagent

MSV_8260_SS_01410



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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. : 30240 **Lot No.:** A0216253

Description : 8260A Surrogate Mix
8260A Surrogate Mix 2,500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : September 30, 2029 **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	Dibromofluoromethane	1868-53-7	022013	99%	2,509.0 µg/mL	+/- 140.9447
2	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	2,506.3 µg/mL	+/- 140.7903
3	Toluene-d8	2037-26-5	PR-34141	99%	2,514.3 µg/mL	+/- 141.2397
4	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	2,510.5 µg/mL	+/- 141.0290

* 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:

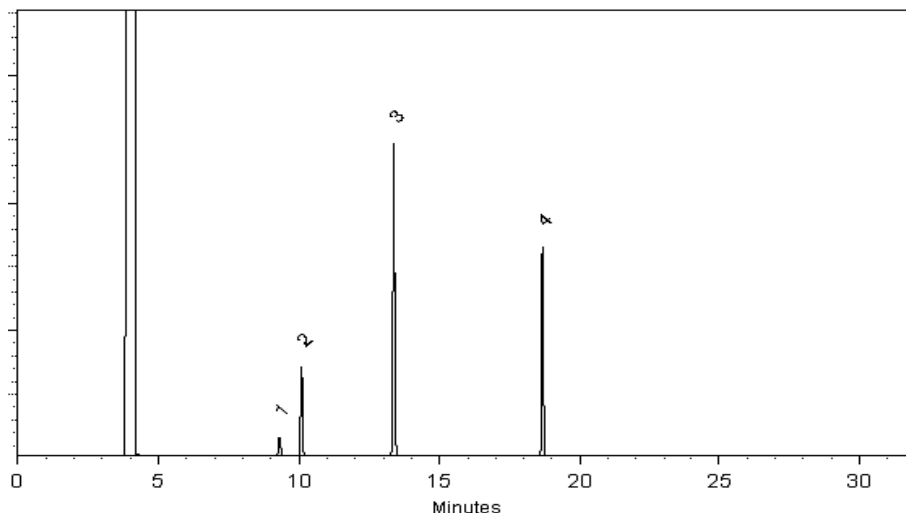
FID

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.

Scott McNeil - Operations Tech I

Date Mixed: 09-Sep-2024

Balance Serial # 1127510105

Brittany Federinko - Operations Tech I

Date Passed: 12-Sep-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_BCE_00079



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30469 **Lot No.:** A0201612
Description : 1-Bromo-2-chloroethane Standard
1-Bromo-2-Chloroethane Std, 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2028 **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-Bromo-2-chloroethane	107-04-0	BCCC1146	99%	2,004.0 µg/mL	+/- 112.6024

* 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:

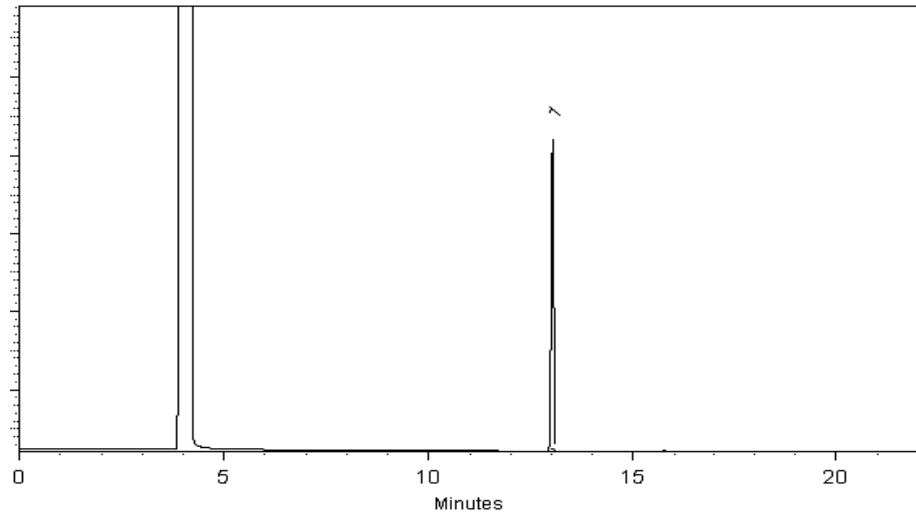
FID

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.

Morgan Craighead - Mix Technician

Date Mixed: 31-Aug-2023

Balance Serial # 1128342314

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Sep-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_CCV_GASES_00998



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577488 **Lot No.:** A0212054

Description : Custom Gases Standard
Custom Gases Standard 2,000µg/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	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,016.7 µg/mL	+/- 114.0219
2	Chloromethane (methyl chloride)	74-87-3	SHBP8835	99%	2,015.3 µg/mL	+/- 115.0747
3	Vinyl chloride	75-01-4	00015559	99%	2,015.3 µg/mL	+/- 115.4962
4	1,3-Butadiene	106-99-0	00019375	99%	2,020.7 µg/mL	+/- 114.1301
5	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,025.3 µg/mL	+/- 114.3368
6	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,023.4 µg/mL	+/- 114.7120
7	Dichlorofluoromethane (CFC-21)	75-43-4	14485600	90%	2,019.6 µg/mL	+/- 113.4524
8	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,020.0 µg/mL	+/- 113.4748
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	354-23-4	877500	99%	2,021.2 µg/mL	+/- 114.0989

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

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

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Quality Confirmation Test

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:

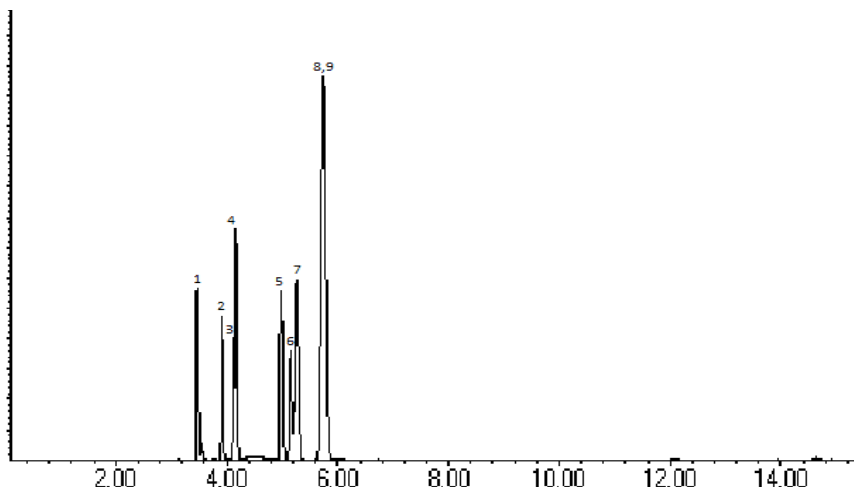
MSD

Split Vent:

Split ratio 10:1

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: 28-May-2024

Balance Serial # B251644995

Dillan Murphy - Operations Technician I

Date Passed: 03-Jun-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_CCV_GASES_01006



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577488 **Lot No.:** A0212054

Description : Custom Gases Standard
Custom Gases Standard 2,000µg/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	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,016.7 µg/mL	+/- 114.0219
2	Chloromethane (methyl chloride)	74-87-3	SHBP8835	99%	2,015.3 µg/mL	+/- 115.0747
3	Vinyl chloride	75-01-4	00015559	99%	2,015.3 µg/mL	+/- 115.4962
4	1,3-Butadiene	106-99-0	00019375	99%	2,020.7 µg/mL	+/- 114.1301
5	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,025.3 µg/mL	+/- 114.3368
6	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,023.4 µg/mL	+/- 114.7120
7	Dichlorofluoromethane (CFC-21)	75-43-4	14485600	90%	2,019.6 µg/mL	+/- 113.4524
8	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,020.0 µg/mL	+/- 113.4748
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	354-23-4	877500	99%	2,021.2 µg/mL	+/- 114.0989

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

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

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Quality Confirmation Test

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:

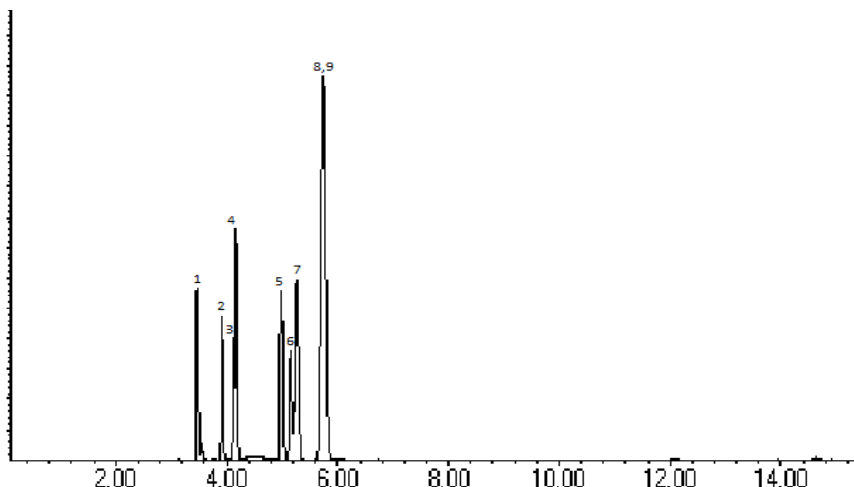
MSD

Split Vent:

Split ratio 10:1

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: 28-May-2024

Balance Serial # B251644995

Dillan Murphy - Operations Technician I

Date Passed: 03-Jun-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_Cus826_IS_00674



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.:** A0203141

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 : October 31, 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%	12,504.0 µg/mL	+/- 155.5359
2	Fluorobenzene	462-06-6	BCBZ5549	99%	2,503.5 µg/mL	+/- 31.1565
3	Chlorobenzene-d5	3114-55-4	PR-29571	99%	2,502.0 µg/mL	+/- 31.1378
4	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,504.5 µg/mL	+/- 31.1689

* 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:

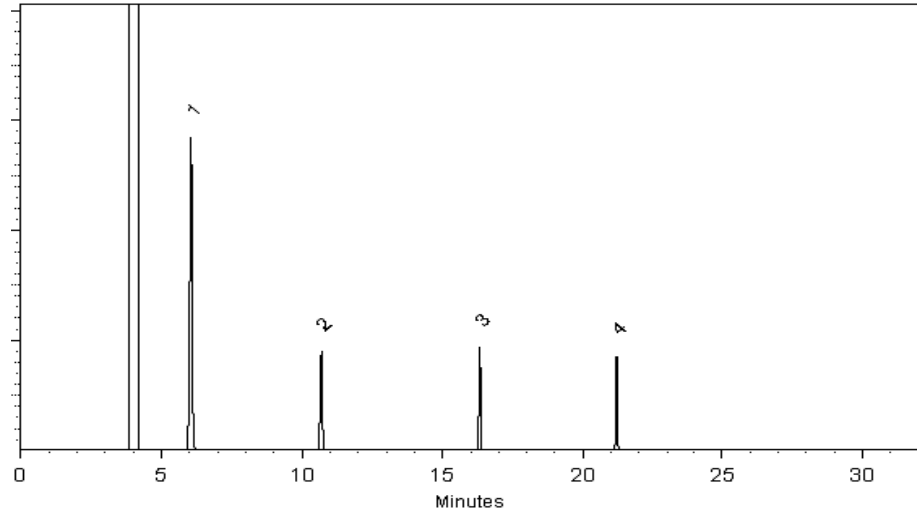
FID

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.


Laith Clemente - Operations Technician I

Date Mixed: 13-Oct-2023

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 18-Oct-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_EE_Neat_00012

CERTIFICATE OF ANALYSIS

Ethyl ether

CATALOG NUMBER	N-11897-1G
LOT NUMBER	14084700
DATE CERTIFIED	06/08/22
EXPIRATION DATE	06/30/27
CAS NUMBER	60-29-7
MOLECULAR FORMULA	C ₄ H ₁₀ O
MOLECULAR WEIGHT	74.12
STORAGE	Refrigerator storage (2 - 8 °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.



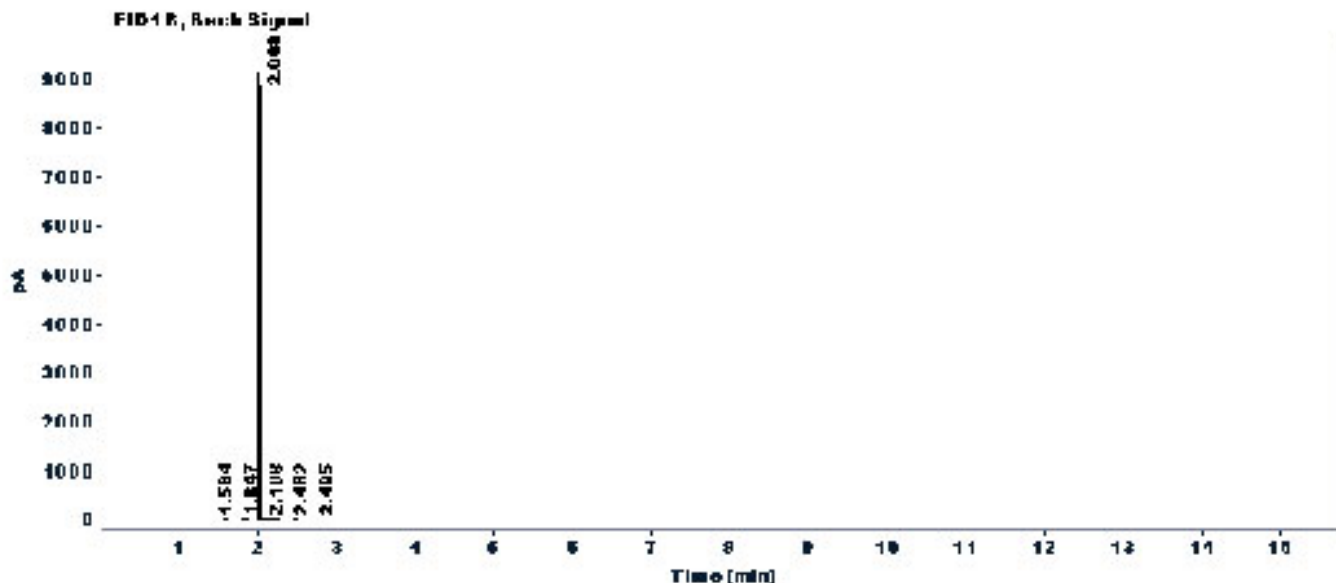
COA Form
Revision 3 (3/2015)

Print Date: 02/02/23

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2022 DATA\0622\ethyl ether.D
 Sample name: Ethyl ether
 Acq. method: FRANNY-BACK.M
 Instrument: GC3
 Location: 205
 Injection date: 6/8/2022 12:35:47 PM
 Injection Vol: 0.100
 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%
1.584	BB	0.0118	2.2881	3.0236	0.0324
1.847	BB	0.0128	3.4389	4.5659	0.0487
2.008	VB S	0.0123	7054.1309	8866.6377	99.8684
2.108	BB T	0.0124	0.6178	0.7662	0.0087
2.462	BV	0.0173	1.5205	1.4371	0.0215
2.495	VB	0.0170	1.4321	1.3951	0.0203
Sum			7063.4283		

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



Reagent

MSV_EtBr_00010

CERTIFICATE OF ANALYSIS

Ethyl bromide

CATALOG NUMBER N-11888-1G
LOT NUMBER 13345600
DATE CERTIFIED 06/15/22
EXPIRATION DATE 06/30/25
CAS NUMBER 74-96-4
MOLECULAR FORMULA C₂H₅Br
MOLECULAR WEIGHT 108.97
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:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

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)

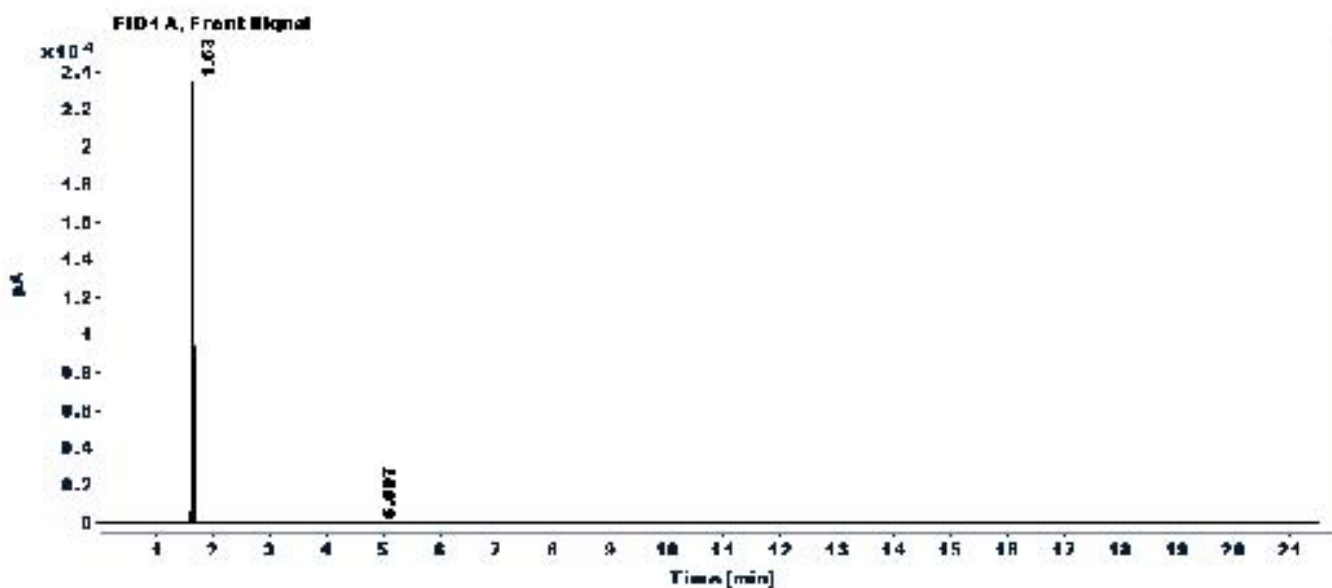
Print Date: 06/17/22

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\Chem32\1\Data\2022 Data\0622\ethyl bromide.D
 Sample name: Ethyl bromide
 Acq. method: FRONT MIX.M
 Instrument: GC3
 Injection date: 6/15/2022 2:26:35 PM
 Column name: Rxi-624Sil MS(30m x 0.32mm ID, 1.8um)

Location: 103
 Injection Vol: 0.200
 # Of Injections: 1



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
1.630	BB S	0.0235	34777.1563	23544.8711	99.8457
5.097	VV R	0.0334	53.7284	24.9837	0.1543
Sum			34830.8846		

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



Reagent

MSV_M_MIX1SEC_00265



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. : 577493 **Lot No.:** A0211284

Description : Custom VOC MegaMix®.SEC #1 Standard

Custom VOC MegaMix®.SEC #1 Standard 1,000µg/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.SEC	13896500	99%	1,004.5 µg/mL	+/- 57.7085
2	Methylene chloride (dichloromethane)	75-09-2.SEC	FGM02	99%	1,004.4 µg/mL	+/- 57.7027
3	trans-1,2-Dichloroethene	156-60-5.SEC	L5QOH	99%	1,003.9 µg/mL	+/- 57.6783
4	1,1-Dichloroethane	75-34-3.SEC	1026.30-3	98%	1,006.0 µg/mL	+/- 57.8000
5	2,2-Dichloropropane	594-20-7.SEC	I7E8E	99%	1,005.2 µg/mL	+/- 57.7516
6	cis-1,2-Dichloroethene	156-59-2.SEC	YZO5O	99%	1,004.3 µg/mL	+/- 57.6987
7	Chloroform	67-66-3.SEC	1297547	99%	1,003.9 µg/mL	+/- 57.6769
8	Bromochloromethane	74-97-5.SEC	13547000	99%	1,004.4 µg/mL	+/- 57.7079
9	1,1,1-Trichloroethane	71-55-6.SEC	14183000	99%	1,005.0 µg/mL	+/- 57.7415
10	1,1-Dichloropropene	563-58-6.SEC	556500	99%	1,003.8 µg/mL	+/- 57.6723
11	Carbon tetrachloride	56-23-5.SEC	11466	99%	1,003.9 µg/mL	+/- 57.6783
12	1,2-Dichloroethane	107-06-2.SEC	00016165	99%	1,003.1 µg/mL	+/- 57.6295
13	Benzene	71-43-2.SEC	B28Y008	99%	1,005.0 µg/mL	+/- 57.7401
14	Trichloroethene	79-01-6.SEC	H04X050	99%	1,003.3 µg/mL	+/- 57.6438
15	1,2-Dichloropropane	78-87-5.SEC	ERRBI-RH	99%	1,003.7 µg/mL	+/- 57.6639
16	Bromodichloromethane	75-27-4.SEC	28128	99%	1,004.8 µg/mL	+/- 57.7300

17	Dibromomethane	74-95-3.SEC MOKKJ	99%	1,004.5	µg/mL	+/- 57.7136
18	cis-1,3-Dichloropropene	10061-01-5.SEC 4870A	98%	1,004.8	µg/mL	+/- 57.7296
19	Toluene	108-88-3.SEC YND2B-BD	99%	1,004.1	µg/mL	+/- 57.6872
20	trans-1,3-Dichloropropene	10061-02-6.SEC ZDMSL	98%	1,006.1	µg/mL	+/- 57.8042
21	1,1,2-Trichloroethane	79-00-5.SEC 13547100	99%	1,003.8	µg/mL	+/- 57.6711
22	1,3-Dichloropropane	142-28-9.SEC IQCON	99%	1,003.6	µg/mL	+/- 57.6573
23	Tetrachloroethene	127-18-4.SEC F09W014	99%	1,003.9	µg/mL	+/- 57.6769
24	Dibromochloromethane	124-48-1.SEC 10234064	99%	1,003.9	µg/mL	+/- 57.6740
25	1,2-Dibromoethane (EDB)	106-93-4.SEC 050675P15E	99%	1,003.7	µg/mL	+/- 57.6677
26	Chlorobenzene	108-90-7.SEC 1161936	99%	1,004.0	µg/mL	+/- 57.6826
27	1,1,1,2-Tetrachloroethane	630-20-6.SEC 13789800	99%	1,003.4	µg/mL	+/- 57.6458
28	Ethylbenzene	100-41-4.SEC XO5UA	99%	1,004.6	µg/mL	+/- 57.7148
29	m-Xylene	108-38-3.SEC 7ZV6F	99%	1,004.8	µg/mL	+/- 57.7263
30	p-Xylene	106-42-3.SEC D6UOA	99%	1,004.6	µg/mL	+/- 57.7171
31	o-Xylene	95-47-6.SEC UJ6RI	99%	1,005.4	µg/mL	+/- 57.7619
32	Styrene	100-42-5.SEC QGQ7F	99%	1,003.8	µg/mL	+/- 57.6711
33	Isopropylbenzene (cumene)	98-82-8.SEC 7P24L	99%	1,005.3	µg/mL	+/- 57.7573
34	Bromoform	75-25-2.SEC 13723500	99%	1,003.9	µg/mL	+/- 57.6783
35	1,1,2,2-Tetrachloroethane	79-34-5.SEC BCCD5088	99%	1,003.8	µg/mL	+/- 57.6711
36	1,2,3-Trichloropropane	96-18-4.SEC 6V2ED	99%	1,003.2	µg/mL	+/- 57.6367
37	n-Propylbenzene	103-65-1.SEC XCGEC	99%	1,004.1	µg/mL	+/- 57.6895
38	Bromobenzene	108-86-1.SEC 8DKWJ	99%	1,004.2	µg/mL	+/- 57.6964
39	1,3,5-Trimethylbenzene	108-67-8.SEC GI2SM	99%	1,004.3	µg/mL	+/- 57.7022
40	2-Chlorotoluene	95-49-8.SEC BRHPM	99%	1,003.7	µg/mL	+/- 57.6642
41	4-Chlorotoluene	106-43-4.SEC S5SKD	99%	1,004.6	µg/mL	+/- 57.7171
42	tert-Butylbenzene	98-06-6.SEC D6OHC	99%	1,004.4	µg/mL	+/- 57.7033
43	1,2,4-Trimethylbenzene	95-63-6.SEC JHZDD	99%	1,004.6	µg/mL	+/- 57.7148
44	sec-Butylbenzene	135-98-8.SEC O4HRF	99%	1,005.1	µg/mL	+/- 57.7470
45	4-Isopropyltoluene (p-cymene)	99-87-6.SEC 13889300	98%	1,004.1	µg/mL	+/- 57.6911
46	1,3-Dichlorobenzene	541-73-1.SEC ZA2ZI	99%	1,003.6	µg/mL	+/- 57.6611
47	1,4-Dichlorobenzene	106-46-7.SEC J5GVD	99%	1,005.3	µg/mL	+/- 57.7559
48	n-Butylbenzene	104-51-8.SEC MMPGA	99%	1,005.4	µg/mL	+/- 57.7642
49	1,2-Dichlorobenzene	95-50-1.SEC R6QDM	99%	1,004.0	µg/mL	+/- 57.6812
50	1,2-Dibromo-3-chloropropane	96-12-8.SEC Q135-105	99%	1,004.2	µg/mL	+/- 57.6964
51	1,2,4-Trichlorobenzene	120-82-1.SEC 3LYYC	99%	1,004.6	µg/mL	+/- 57.7182
52	Hexachlorobutadiene	87-68-3.SEC 13889400	97%	1,004.2	µg/mL	+/- 57.6965

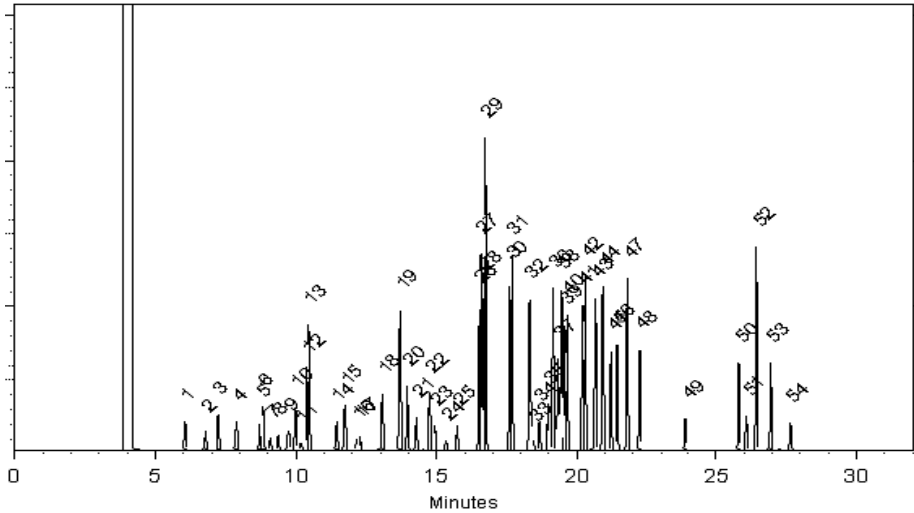
53	Naphthalene	91-20-3.SEC	AM5NG	99%	1,002.7	µg/mL	+/- 57.6079
54	1,2,3-Trichlorobenzene	87-61-6.SEC	A0043055	99%	1,004.6	µg/mL	+/- 57.7194

* 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.

Matt Fragassi
Matt Fragassi - Mix Technician

Date Mixed: 10-May-2024 **Balance Serial #** 1128342314

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

Date Passed: 14-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#1_00226



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	TMW GK	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

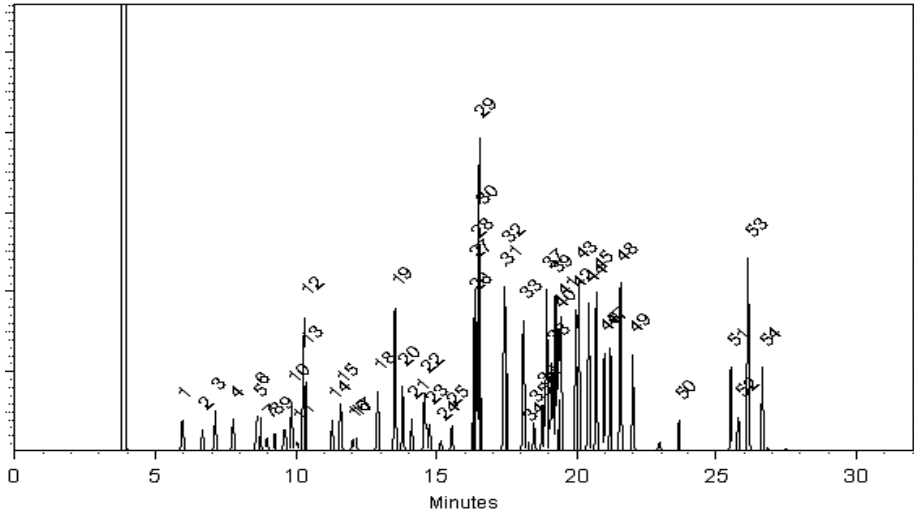
53	Naphthalene	91-20-3	STBL1057	99%	5,008.3	µg/mL	+/- 282.1039
54	1,2,3-Trichlorobenzene	87-61-6	MKBX7627V	99%	5,037.8	µg/mL	+/- 283.7656

* 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#1_00228



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

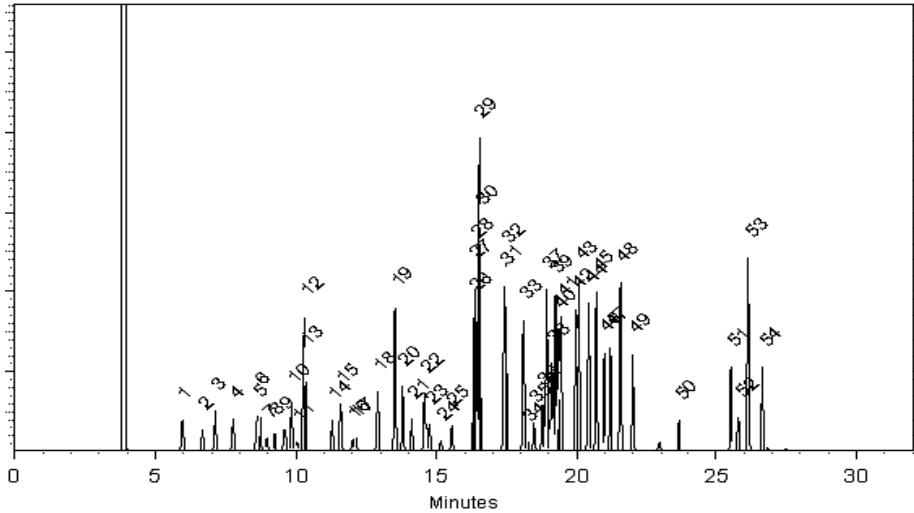
53	Naphthalene	91-20-3	STBL1057	99%	5,008.3	µg/mL	+/- 282.1039
54	1,2,3-Trichlorobenzene	87-61-6	MKBX7627V	99%	5,037.8	µg/mL	+/- 283.7656

* 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_00225



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:

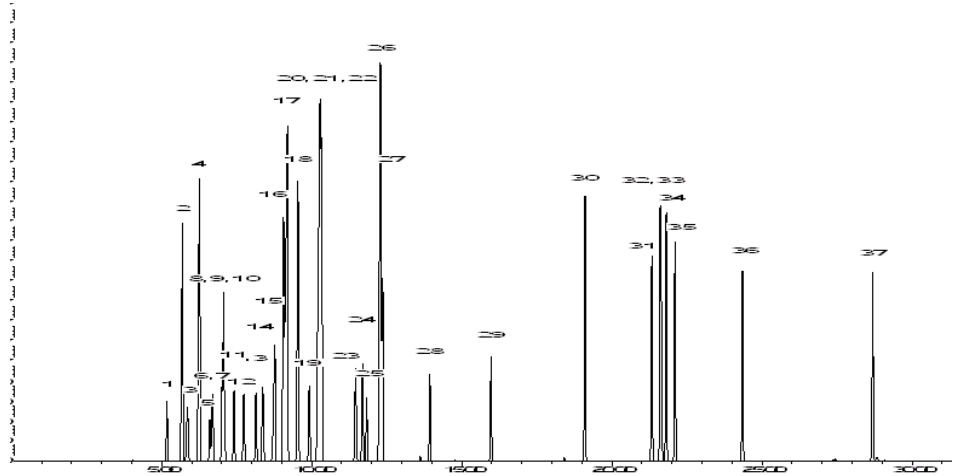
MSD

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_MegaMix#2_00234



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. : 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:

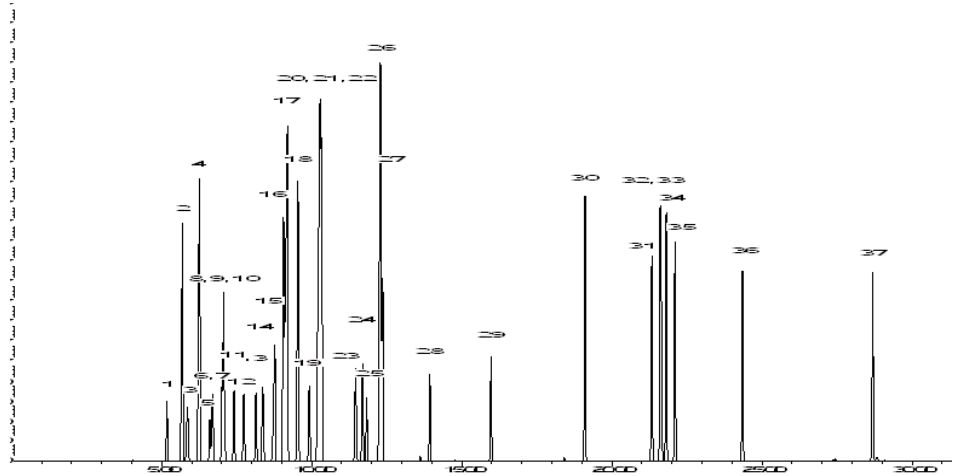
MSD

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_Q_Ketones_00259



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. : 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:

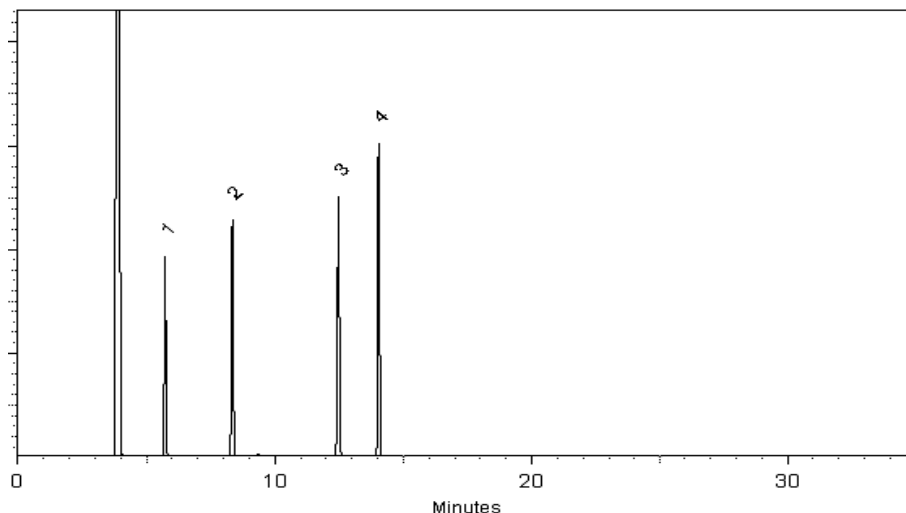
FID

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_00296



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. : 577488.SEC **Lot No.:** A0211460

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, 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	Dichlorodifluoromethane (CFC-12)	75-71-8.SEC	28888	99%	2,002.3 µg/mL	+/- 116.3467
2	Chloromethane (methyl chloride)	74-87-3.SEC	00022694	99%	2,014.2 µg/mL	+/- 117.1824
3	Vinyl chloride	75-01-4 *	00015559	99%	2,009.3 µg/mL	+/- 117.9630
4	1,3-Butadiene	106-99-0.SEC	28539	99%	2,030.2 µg/mL	+/- 117.6986
5	Bromomethane (methyl bromide)	74-83-9 *	00017022	99%	2,017.1 µg/mL	+/- 136.9230
6	Chloroethane (ethyl chloride)	75-00-3.SEC	00021903	99%	2,005.3 µg/mL	+/- 122.7081
7	Dichlorofluoromethane (CFC-21)	75-43-4 *	14485600	90%	2,016.0 µg/mL	+/- 113.2616
8	Trichlorofluoromethane (CFC-11)	75-69-4.SEC	00010739	99%	2,020.0 µg/mL	+/- 113.4863
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	354-23-4 *	877500	99%	2,005.1 µg/mL	+/- 115.4133

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

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.

Quality Confirmation Test

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:

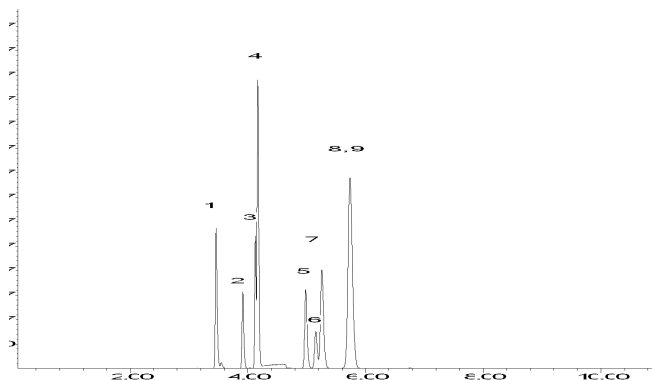
MSD

Split Vent:

Split ratio 10:1

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.


Matt Fragassi - Mix Technician

Date Mixed: 15-May-2024

Balance Serial # 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 22-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_QC_2K_GAS_00300



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. : 577488.SEC **Lot No.:** A0211460

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, 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	Dichlorodifluoromethane (CFC-12)	75-71-8.SEC	28888	99%	2,002.3 µg/mL	+/- 116.3467
2	Chloromethane (methyl chloride)	74-87-3.SEC	00022694	99%	2,014.2 µg/mL	+/- 117.1824
3	Vinyl chloride	75-01-4 *	00015559	99%	2,009.3 µg/mL	+/- 117.9630
4	1,3-Butadiene	106-99-0.SEC	28539	99%	2,030.2 µg/mL	+/- 117.6986
5	Bromomethane (methyl bromide)	74-83-9 *	00017022	99%	2,017.1 µg/mL	+/- 136.9230
6	Chloroethane (ethyl chloride)	75-00-3.SEC	00021903	99%	2,005.3 µg/mL	+/- 122.7081
7	Dichlorofluoromethane (CFC-21)	75-43-4 *	14485600	90%	2,016.0 µg/mL	+/- 113.2616
8	Trichlorofluoromethane (CFC-11)	75-69-4.SEC	00010739	99%	2,020.0 µg/mL	+/- 113.4863
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	354-23-4 *	877500	99%	2,005.1 µg/mL	+/- 115.4133

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

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.

Quality Confirmation Test

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:

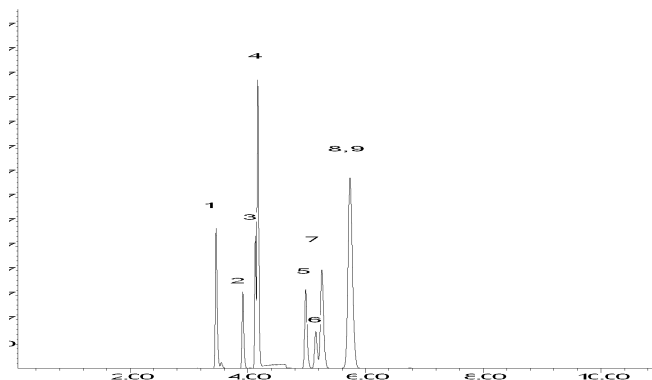
MSD

Split Vent:

Split ratio 10:1

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.


Matt Fragassi - Mix Technician

Date Mixed: 15-May-2024

Balance Serial # 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 22-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#2B_00421



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

www.restek.com

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. : 56734 **Lot No.:** A0211456

Description : Custom V # 2B Standard

Custom V #2B Standard 12,500-125,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : May 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

Elution Order	Compound	CAS #	Percent Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol)	67-63-0	99%	25,027.0 µg/mL	+/- 146.5386 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,028.0 µg/mL	+/- 146.5444 µg/mL
3	Propionitrile	107-12-0	99%	25,017.0 µg/mL	+/- 146.4800 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,514.0 µg/mL	+/- 73.2722 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,518.0 µg/mL	+/- 366.0566 µg/mL
6	1-Butanol	71-36-3	99%	125,047.0 µg/mL	+/- 732.1399 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,517.0 µg/mL	+/- 366.0508 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	98%	12,522.4 µg/mL	+/- 73.3216 µg/mL
Solvent:	P&T Methanol	67-56-1	99%		

Specific Reference Material Notes:

This RM (Reference Material) is not a CRM (Certified Reference Material) due to the 1-butanol concentration exceeding the maximum concentration on Restek's ISO Guide 34 scope of accreditation.

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:

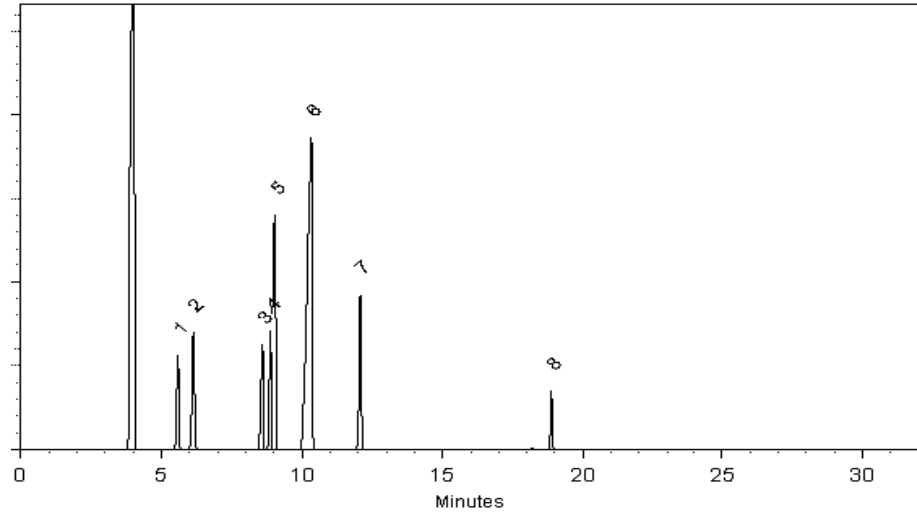
FID

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.


Laith Clemente - Operations Technician I

Date Mixed: 15-May-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-May-2024

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

General Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Uncertainty Value Notes:

- Uncertainties are determined using data from balances and glassware, raw material purity, and, when significant, equipment tolerances or calibration results.

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_00221



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:

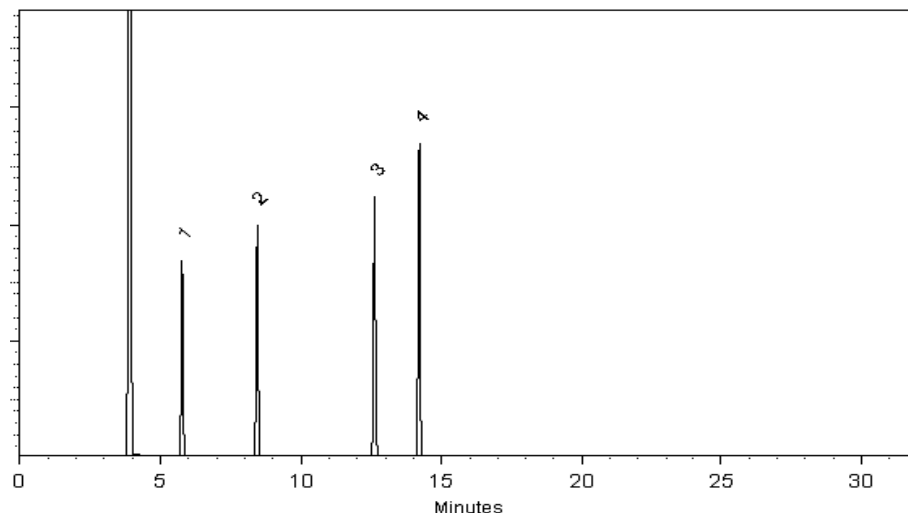
FID

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_Ketones_00233



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:

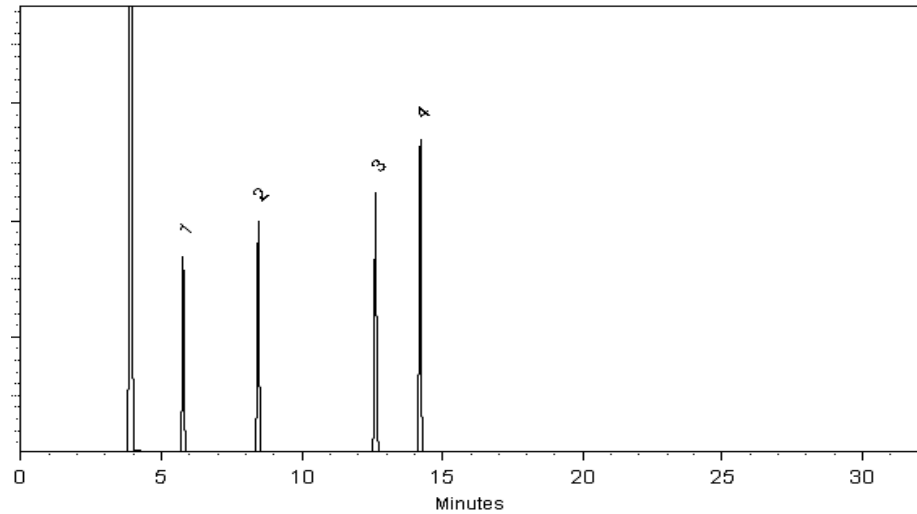
FID

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_00057



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:

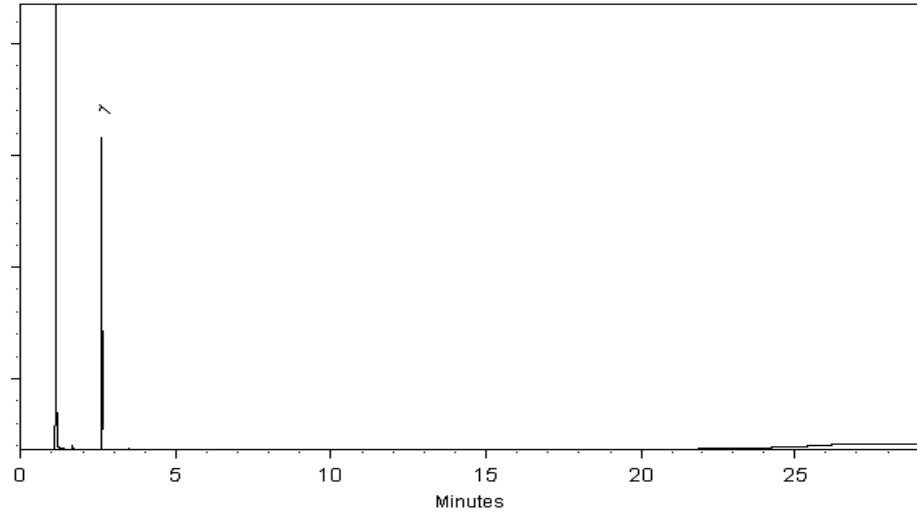
FID

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.
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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:

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

Method 8260D Low Level

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-219242-1

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-COD-SW-6-0/1-0	410-219242-1	101	101	103	96
HD-COD-SW-7-0/1-0	410-219242-2	101	104	101	96
HD-COD-SW-8-0/1-0	410-219242-3	100	103	101	96
HD-COD-SW-9-0/1-0	410-219242-4	104	105	101	96
HD-COD-SW-13-0/1-0	410-219242-5	99	103	101	97
HD-COD-SW-15-0/1-0	410-219242-6	101	102	102	96
HD-COD-SW-16-0/1-0	410-219242-7	100	102	101	97
HD-COD-SW-17-0/1-0	410-219242-8	102	96	96	94
HD-COD-SW-17-0/1-0 DL	410-219242-8 DL	101	105	101	94
HD-COD-SW-26-0/1-0	410-219242-9	102	103	101	97
HD-COD-SW-27-0/1-0	410-219242-10	100	99	101	99
HD-COD-SW-28-0/1-0	410-219242-11	101	102	101	96
HD-COD-SW-29-0/1-0	410-219242-12	100	104	100	96
HD-QC1-0/1-1	410-219242-13	103	103	98	96
HD-QC1-0/1-1 DL	410-219242-13 DL	101	100	100	94
HD-QC1-0/1-2	410-219242-14	100	101	101	96
	MB 410-640992/6	100	104	99	95
	LCS 410-640992/4	101	104	102	97
HD-COD-SW-15-0/1-0 MS MS	410-219242-6 MS	102	105	102	98
HD-COD-SW-15-0/1-0 MSD MSD	410-219242-6 MSD	101	104	102	99

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 III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-219242-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: HY07X33.D

Lab ID: LCS 410-640992/4

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	4.99	100	80-122	
1,1,1-Trichloroethane	5.00	5.18	104	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.23	105	75-123	
1,1,2-Trichloroethane	5.00	5.24	105	80-120	
1,1-Dichloroethane	5.00	5.63	113	74-120	
1,1-Dichloroethene	5.00	5.53	111	80-131	
1,2-Dibromoethane (EDB)	5.00	5.03	101	80-120	
1,2-Dichloroethane	5.00	5.29	106	69-122	
1,2-Dichloropropane	5.00	5.52	110	80-120	
2-Butanone (MEK)	62.5	73.2	117	59-141	
2-Hexanone	62.5	61.0	98	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	68.3	109	55-140	
Acetone	62.5	65.2	104	60-146	
Benzene	5.00	5.22	104	80-120	
Bromochloromethane	5.00	5.35	107	80-133	
Bromodichloromethane	5.00	5.21	104	80-123	
Bromoform	5.00	4.83	97	75-126	
Bromomethane	5.00	4.55	91	63-120	
Carbon disulfide	5.00	4.78	96	67-130	
Carbon tetrachloride	5.00	5.05	101	64-141	
Chlorobenzene	5.00	5.09	102	80-120	
Chloroethane	5.00	5.13	103	63-120	
Chloroform	5.00	5.34	107	80-120	
Chloromethane	5.00	4.39	88	56-124	
cis-1,2-Dichloroethene	5.00	5.00	100	80-122	
cis-1,3-Dichloropropene	5.00	4.68	94	67-121	
Dibromochloromethane	5.00	5.03	101	80-123	
Ethylbenzene	5.00	5.23	105	80-120	
Methyl tert-butyl ether	5.00	4.59	92	69-120	
Methylene Chloride	5.00	5.53	111	80-120	
Styrene	5.00	5.41	108	80-120	
Tetrachloroethene	5.00	4.94	99	80-120	
Toluene	5.00	5.24	105	80-120	
trans-1,2-Dichloroethene	5.00	5.59	112	80-122	
trans-1,3-Dichloropropene	5.00	5.13	103	61-129	
Trichloroethene	5.00	5.13	103	80-120	
Vinyl chloride	5.00	4.52	90	60-125	
Xylenes, Total	15.0	15.8	106	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.: 410-219242-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: HY07X44.D

Lab ID: 410-219242-6 MS

Client ID: HD-COD-SW-15-0/1-0 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	5.00	ND	5.11	102	80-122	
1,1,1-Trichloroethane	5.00	0.27 J	5.75	110	78-126	
1,1,2,2-Tetrachloroethane	5.00	ND	5.30	106	75-123	
1,1,2-Trichloroethane	5.00	ND	5.10	102	80-120	
1,1-Dichloroethane	5.00	ND	5.73	114	74-120	
1,1-Dichloroethene	5.00	0.16 J	6.21	121	80-131	
1,2-Dibromoethane (EDB)	5.00	ND	5.22	104	80-120	
1,2-Dichloroethane	5.00	ND	5.25	105	69-122	
1,2-Dichloropropane	5.00	ND	5.58	111	80-120	
2-Butanone (MEK)	62.6	ND	55.9	89	59-141	
2-Hexanone	62.6	ND	48.2	77	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	ND	55.1	88	55-140	
Acetone	62.6	ND	55.6	89	60-146	
Benzene	5.00	ND	5.32	106	80-120	
Bromochloromethane	5.00	ND	5.24	105	80-133	
Bromodichloromethane	5.00	ND	5.36	107	80-123	
Bromoform	5.00	ND	5.06	101	75-126	
Bromomethane	5.00	ND	4.84	97	63-120	
Carbon disulfide	5.00	ND	5.18	103	67-130	
Carbon tetrachloride	5.00	ND	5.59	112	64-141	
Chlorobenzene	5.00	ND	5.21	104	80-120	
Chloroethane	5.00	ND	5.47	109	63-120	
Chloroform	5.00	0.18 J	5.69	110	80-120	
Chloromethane	5.00	ND	4.39	88	80-120	
cis-1,2-Dichloroethene	5.00	0.75	5.91	103	80-122	
cis-1,3-Dichloropropene	5.00	ND	4.80	96	67-121	
Dibromochloromethane	5.00	ND	5.25	105	80-123	
Ethylbenzene	5.00	ND	5.47	109	80-120	
Methyl tert-butyl ether	5.00	ND	4.67	93	69-120	
Methylene Chloride	5.00	ND	5.57	111	80-120	
Styrene	5.00	ND	5.52	110	80-120	
Tetrachloroethene	5.00	4.9	10.2	107	80-120	
Toluene	5.00	ND	5.33	107	80-120	
trans-1,2-Dichloroethene	5.00	ND	5.65	113	80-122	
trans-1,3-Dichloropropene	5.00	ND	5.20	104	61-129	
Trichloroethene	5.00	1.2	6.64	109	80-120	
Vinyl chloride	5.00	ND	5.10	102	60-125	
Xylenes, Total	15.0	ND	16.2	108	80-120	

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.: 410-219242-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: HY07X45.D

Lab ID: 410-219242-6 MSD

Client ID: HD-COD-SW-15-0/1-0 MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	5.00	5.30	106	4	30	80-122	
1,1,1-Trichloroethane	5.00	5.97	114	4	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.25	105	1	30	75-123	
1,1,2-Trichloroethane	5.00	5.30	106	4	30	80-120	
1,1-Dichloroethane	5.00	5.95	119	4	30	74-120	
1,1-Dichloroethene	5.00	6.29	123	1	30	80-131	
1,2-Dibromoethane (EDB)	5.00	5.34	107	2	30	80-120	
1,2-Dichloroethane	5.00	5.57	111	6	30	69-122	
1,2-Dichloropropane	5.00	5.84	117	5	30	80-120	
2-Butanone (MEK)	62.6	71.8	115	25	30	59-141	
2-Hexanone	62.6	60.9	97	23	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	67.5	108	20	30	55-140	
Acetone	62.6	61.0	97	9	30	60-146	
Benzene	5.00	5.50	110	3	30	80-120	
Bromochloromethane	5.00	5.60	112	7	30	80-133	
Bromodichloromethane	5.00	5.57	111	4	30	80-123	
Bromoform	5.00	5.12	102	1	30	75-126	
Bromomethane	5.00	4.85	97	0	30	63-120	
Carbon disulfide	5.00	5.28	106	2	30	67-130	
Carbon tetrachloride	5.00	5.69	114	2	30	64-141	
Chlorobenzene	5.00	5.37	107	3	30	80-120	
Chloroethane	5.00	5.59	112	2	30	63-120	
Chloroform	5.00	5.81	112	2	30	80-120	
Chloromethane	5.00	4.60	92	5	30	80-120	
cis-1,2-Dichloroethene	5.00	6.02	105	2	30	80-122	
cis-1,3-Dichloropropene	5.00	5.00	100	4	30	67-121	
Dibromochloromethane	5.00	5.40	108	3	30	80-123	
Ethylbenzene	5.00	5.63	113	3	30	80-120	
Methyl tert-butyl ether	5.00	4.72	94	1	30	69-120	
Methylene Chloride	5.00	5.66	113	2	30	80-120	
Styrene	5.00	5.76	115	4	30	80-120	
Tetrachloroethene	5.00	10.3	109	1	30	80-120	
Toluene	5.00	5.52	110	3	30	80-120	
trans-1,2-Dichloroethene	5.00	5.82	116	3	30	80-122	
trans-1,3-Dichloropropene	5.00	5.34	107	3	30	61-129	
Trichloroethene	5.00	6.84	113	3	30	80-120	
Vinyl chloride	5.00	4.95	99	3	30	60-125	
Xylenes, Total	15.0	16.9	112	4	30	80-120	

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.: 410-219242-1

SDG No.:

Lab File ID: HY07X35.D

Lab Sample ID: MB 410-640992/6

Matrix: Water

Heated Purge: (Y/N) N

Instrument ID: 19094

Date Analyzed: 05/07/2025 22:58

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 410-640992/4	HY07X33.D	05/07/2025 22:17
HD-QC1-0/1-2	410-219242-14	HY07X36.D	05/07/2025 23:21
HD-COD-SW-6-0/1-0	410-219242-1	HY07X38.D	05/08/2025 00:03
HD-COD-SW-7-0/1-0	410-219242-2	HY07X39.D	05/08/2025 00:24
HD-COD-SW-8-0/1-0	410-219242-3	HY07X40.D	05/08/2025 00:45
HD-COD-SW-9-0/1-0	410-219242-4	HY07X41.D	05/08/2025 01:06
HD-COD-SW-13-0/1-0	410-219242-5	HY07X42.D	05/08/2025 01:27
HD-COD-SW-15-0/1-0	410-219242-6	HY07X43.D	05/08/2025 01:47
HD-COD-SW-15-0/1-0 MS MS	410-219242-6 MS	HY07X44.D	05/08/2025 02:08
HD-COD-SW-15-0/1-0 MSD MSD	410-219242-6 MSD	HY07X45.D	05/08/2025 02:29
HD-COD-SW-16-0/1-0	410-219242-7	HY07X46.D	05/08/2025 02:50
HD-COD-SW-26-0/1-0	410-219242-9	HY07X47.D	05/08/2025 03:10
HD-COD-SW-27-0/1-0	410-219242-10	HY07X48.D	05/08/2025 03:31
HD-COD-SW-28-0/1-0	410-219242-11	HY07X49.D	05/08/2025 03:52
HD-COD-SW-29-0/1-0	410-219242-12	HY07X50.D	05/08/2025 04:12
HD-COD-SW-17-0/1-0	410-219242-8	HY07X57.D	05/08/2025 06:38
HD-COD-SW-17-0/1-0 DL	410-219242-8 DL	HY07X58.D	05/08/2025 06:58
HD-QC1-0/1-1	410-219242-13	HY07X59.D	05/08/2025 07:19
HD-QC1-0/1-1 DL	410-219242-13 DL	HY07X60.D	05/08/2025 07:40

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

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-219242-1

SDG No.:

Lab File ID: HM31T01.D

BFB Injection Date: 03/31/2025

Instrument ID: 19094

BFB Injection Time: 15:05

Analysis Batch No.: 623992

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.0
75	30.0 - 60.0 % of mass 95	47.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.8
173	Less than 2.0 % of mass 174	0.4 (0.5) 1
174	Greater than 50% of mass 95	78.4
175	5.0 - 9.0 % of mass 174	6.0 (7.6) 1
176	95.0 - 101.0 % of mass 174	75.6 (96.4) 1
177	5.0 - 9.0 % of mass 176	5.3 (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
	IC 410-623992/13	HM31X12.D	03/31/2025	15:52
	IC 410-623992/14	HM31X13.D	03/31/2025	16:13
	IC 410-623992/15	HM31X14.D	03/31/2025	16:34
	IC 410-623992/16	HM31X15.D	03/31/2025	16:54
	IC 410-623992/17	HM31X16.D	03/31/2025	17:16
	IC 410-623992/18	HM31X17.D	03/31/2025	17:36
	IC 410-623992/19	HM31X18.D	03/31/2025	17:57
	ICIS 410-623992/20	HM31X19.D	03/31/2025	18:18
	IC 410-623992/21	HM31X20.D	03/31/2025	18:38
	ICV 410-623992/23	HM31X22.D	03/31/2025	19:20

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

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-219242-1

SDG No.:

Lab File ID: HY07T32.D

BFB Injection Date: 05/07/2025

Instrument ID: 19094

BFB Injection Time: 21:17

Analysis Batch No.: 640992

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.7
75	30.0 - 60.0 % of mass 95	49.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.1
173	Less than 2.0 % of mass 174	0.7 (0.8) 1
174	Greater than 50% of mass 95	82.7
175	5.0 - 9.0 % of mass 174	6.7 (8.1) 1
176	95.0 - 101.0 % of mass 174	80.8 (97.7) 1
177	5.0 - 9.0 % of mass 176	5.3 (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 410-640992/3	HY07X32.D	05/07/2025	21:56
	LCS 410-640992/4	HY07X33.D	05/07/2025	22:17
	MB 410-640992/6	HY07X35.D	05/07/2025	22:58
HD-QC1-0/1-2	410-219242-14	HY07X36.D	05/07/2025	23:21
HD-COD-SW-6-0/1-0	410-219242-1	HY07X38.D	05/08/2025	0:03
HD-COD-SW-7-0/1-0	410-219242-2	HY07X39.D	05/08/2025	0:24
HD-COD-SW-8-0/1-0	410-219242-3	HY07X40.D	05/08/2025	0:45
HD-COD-SW-9-0/1-0	410-219242-4	HY07X41.D	05/08/2025	1:06
HD-COD-SW-13-0/1-0	410-219242-5	HY07X42.D	05/08/2025	1:27
HD-COD-SW-15-0/1-0	410-219242-6	HY07X43.D	05/08/2025	1:47
HD-COD-SW-15-0/1-0 MS MS	410-219242-6 MS	HY07X44.D	05/08/2025	2:08
HD-COD-SW-15-0/1-0 MSD MSD	410-219242-6 MSD	HY07X45.D	05/08/2025	2:29
HD-COD-SW-16-0/1-0	410-219242-7	HY07X46.D	05/08/2025	2:50
HD-COD-SW-26-0/1-0	410-219242-9	HY07X47.D	05/08/2025	3:10
HD-COD-SW-27-0/1-0	410-219242-10	HY07X48.D	05/08/2025	3:31
HD-COD-SW-28-0/1-0	410-219242-11	HY07X49.D	05/08/2025	3:52
HD-COD-SW-29-0/1-0	410-219242-12	HY07X50.D	05/08/2025	4:12
HD-COD-SW-17-0/1-0	410-219242-8	HY07X57.D	05/08/2025	6:38
HD-COD-SW-17-0/1-0 DL	410-219242-8 DL	HY07X58.D	05/08/2025	6:58
HD-QC1-0/1-1	410-219242-13	HY07X59.D	05/08/2025	7:19
HD-QC1-0/1-1 DL	410-219242-13 DL	HY07X60.D	05/08/2025	7:40

FORM VIII

Job No.: 410-219242-1

Sample No.: ICIS 410-623992/20

Date Analyzed: 03/31/2025 18:18

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

Heated Purge: (Y/N) N

Calibration ID: 71644

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		42040	3.91	2055680	7.39	1458607	10.98
UPPER LIMIT		84080	4.41	4111360	7.89	2917214	11.48
LOWER LIMIT		21020	3.41	1027840	6.89	729304	10.48
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-623992/23		58699	3.90	2000681	7.39	1436438	10.98
CCVIS 410-640992/3		49445	3.93	1758539	7.39	1265488	10.98

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.: 410-219242-1

Sample No.: ICIS 410-623992/20

Date Analyzed: 03/31/2025 18:18

GC Column: R-624SilMS 30m

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration ID: 71644

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		791747	12.89				
UPPER LIMIT		1583494	13.39				
LOWER LIMIT		395874	12.39				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-623992/23		771991	12.89				
CCVIS 410-640992/3		675974	12.88				

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.: 410-219242-1
Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-640992/3 Date Analyzed: 05/07/2025 21:56

Instrument ID: 19094 GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): HY07X32.D Heated Purge: (Y/N) N

Calibration ID: 71644

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		49445	3.93	1758539	7.39	1265488	10.98
UPPER LIMIT		98890	4.43	3517078	7.89	2530976	11.48
LOWER LIMIT		24723	3.43	879270	6.89	632744	10.48
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-640992/4		49352	3.90	1761763	7.38	1251355	10.97
MB 410-640992/6		54376	3.90	1662723	7.39	1188980	10.98
410-219242-14	HD-QC1-0/1-2	55333	3.90	1734925	7.39	1234617	10.98
410-219242-1	HD-COD-SW-6-0/1-0	40511	3.89	1675547	7.38	1176636	10.98
410-219242-2	HD-COD-SW-7-0/1-0	47326	3.90	1658589	7.39	1185865	10.98
410-219242-3	HD-COD-SW-8-0/1-0	49083	3.90	1654092	7.38	1198963	10.98
410-219242-4	HD-COD-SW-9-0/1-0	46189	3.90	1601185	7.39	1162603	10.98
410-219242-5	HD-COD-SW-13-0/1-0	50585	3.89	1668844	7.39	1189970	10.98
410-219242-6	HD-COD-SW-15-0/1-0	62666	3.88	1689030	7.38	1202504	10.98
410-219242-6 MS	HD-COD-SW-15-0/1-0 MS MS	63996	3.93	1763317	7.38	1259830	10.98
410-219242-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	51785	3.92	1749924	7.38	1243461	10.98
410-219242-7	HD-COD-SW-16-0/1-0	55021	3.90	1714594	7.38	1217911	10.98
410-219242-9	HD-COD-SW-26-0/1-0	48424	3.89	1670498	7.38	1180856	10.98
410-219242-10	HD-COD-SW-27-0/1-0	49790	3.91	1669502	7.39	1181019	10.98
410-219242-11	HD-COD-SW-28-0/1-0	48567	3.90	1683466	7.39	1207283	10.98
410-219242-12	HD-COD-SW-29-0/1-0	62131	3.93	1662958	7.38	1200599	10.98
410-219242-8	HD-COD-SW-17-0/1-0	48590	3.90	1670196	7.39	1249283	10.98
410-219242-8 DL	HD-COD-SW-17-0/1-0 DL	50907	3.90	1673021	7.38	1208642	10.98
410-219242-13	HD-QC1-0/1-1	49065	3.89	1677785	7.39	1242722	10.98
410-219242-13 DL	HD-QC1-0/1-1 DL	50229	3.90	1656500	7.39	1213861	10.98

TBAd10 = t-Butyl alcohol-d10 (IS)

TBAd10 = t-Butyl alcohol-d10 (IS)

FB = Fluorobenzene (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.: 410-219242-1
Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-640992/3 Date Analyzed: 05/07/2025 21:56

Instrument ID: 19094 GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): HY07X32.D Heated Purge: (Y/N) N

Calibration ID: 71644

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		675974	12.88				
UPPER LIMIT		1351948	13.38				
LOWER LIMIT		337987	12.38				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-640992/4		661665	12.88				
MB 410-640992/6		619096	12.89				
410-219242-14	HD-QC1-0/1-2	645319	12.89				
410-219242-1	HD-COD-SW-6-0/1-0	607741	12.89				
410-219242-2	HD-COD-SW-7-0/1-0	611227	12.88				
410-219242-3	HD-COD-SW-8-0/1-0	603899	12.89				
410-219242-4	HD-COD-SW-9-0/1-0	602356	12.88				
410-219242-5	HD-COD-SW-13-0/1-0	613174	12.89				
410-219242-6	HD-COD-SW-15-0/1-0	613867	12.88				
410-219242-6 MS	HD-COD-SW-15-0/1-0 MS MS	668145	12.88				
410-219242-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	671451	12.88				
410-219242-7	HD-COD-SW-16-0/1-0	624056	12.89				
410-219242-9	HD-COD-SW-26-0/1-0	601909	12.89				
410-219242-10	HD-COD-SW-27-0/1-0	599675	12.88				
410-219242-11	HD-COD-SW-28-0/1-0	622119	12.88				
410-219242-12	HD-COD-SW-29-0/1-0	610155	12.89				
410-219242-8	HD-COD-SW-17-0/1-0	622727	12.89				
410-219242-8 DL	HD-COD-SW-17-0/1-0 DL	617593	12.89				
410-219242-13	HD-QC1-0/1-1	634141	12.89				
410-219242-13 DL	HD-QC1-0/1-1 DL	622222	12.89				

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.: 410-219242-1

SDG No.:

Client Sample ID: HD-COD-SW-6-0/1-0

Lab Sample ID: 410-219242-1

Matrix: Water

Lab File ID: HY07X38.D

Analysis Method: 8260D

Date Collected: 04/24/2025 10:00

Sample wt/vol: 25 (mL)

Date Analyzed: 05/08/2025 00:03

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 640992

Units: ug/L

Preparation Batch No.:

Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND	^c cn	5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-6-0/1-0 Lab Sample ID: 410-219242-1

Matrix: Water Lab File ID: HY07X38.D

Analysis Method: 8260D Date Collected: 04/24/2025 10:00

Sample wt/vol: 25 (mL) Date Analyzed: 05/08/2025 00:03

Soil Aliquot Vol: _____ Dilution Factor: 1

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

Purge Volume: 25.0 (mL) Heated Purge: (Y/N) N pH: _____

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

Analysis Batch No.: 640992 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.10	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

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)	101		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\19094\20250507-146489.b\HY07X38.D
 Lims ID: 410-219242-A-1
 Client ID: HD-COD-SW-6-0/1-0
 Sample Type: Client
 Inject. Date: 08-May-2025 00:03:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0146489-009
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 09:25:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.020	2.032	-0.012	92	3028	0.0385	
6 Vinyl chloride	62		2.142				ND	
9 Bromomethane	94		2.422				ND	
10 Chloroethane	64		2.507				ND	
17 1,1-Dichloroethene	96		3.282				ND	
19 Acetone	43		3.282				ND	
23 Carbon disulfide	76	3.568	3.568	0.000	59	4833	0.0388	
27 Methylene Chloride	84		3.885				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.891	3.928	-0.037	94	40511	50.0	
32 Methyl tert-butyl ether	73		4.263				ND	
33 trans-1,2-Dichloroethene	96		4.275				ND	
36 1,1-Dichloroethane	63		4.928				ND	
41 2-Butanone (MEK)	43		5.732				ND	
42 cis-1,2-Dichloroethene	96	5.799	5.769	0.030	1	3674	0.0708	M
48 Chlorobromomethane	128		6.104				ND	
50 Chloroform	83	6.263	6.257	0.006	90	4558	0.0562	
\$ 52 Dibromofluoromethane (Surr)	113	6.482	6.476	0.006	94	366625	10.1	
53 1,1,1-Trichloroethane	97		6.494				ND	
56 Carbon tetrachloride	117		6.714				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.939	6.940	-0.001	47	64928	10.1	
59 Benzene	78		6.970				ND	7
60 1,2-Dichloroethane	62		7.043				ND	
* 64 Fluorobenzene (IS)	96	7.384	7.385	-0.001	99	1675547	10.0	
68 Trichloroethene	95	7.903	7.872	0.031	88	5237	0.1018	M
70 1,2-Dichloropropane	63		8.208				ND	
76 Dichlorobromomethane	83		8.561				ND	
80 cis-1,3-Dichloropropene	75		9.134				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.317				ND	
\$ 83 Toluene-d8 (Surr)	98	9.457	9.457	0.000	94	1637520	10.3	
84 Toluene	92	9.555	9.537	0.018	98	7530	0.0603	
85 trans-1,3-Dichloropropene	75		9.817				ND	
106 1,1,2-Trichloroethane	97		10.030				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166		10.116				ND	7
109 2-Hexanone	43		10.250				ND	
111 Chlorodibromomethane	129		10.414				ND	
112 Ethylene Dibromide	107		10.530				ND	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	87	1176636	10.0	
115 Chlorobenzene	112		11.000				ND	
116 1,1,1,2-Tetrachloroethane	131		11.085				ND	
117 Ethylbenzene	91		11.091				ND	7
119 m-Xylene & p-Xylene	106		11.207				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.542				ND	7
121 Styrene	104		11.561				ND	
122 Bromoform	173		11.719				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	11.999	11.993	0.006	91	560406	9.62	
127 1,1,2,2-Tetrachloroethane	83		12.097				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.889	12.883	0.006	95	607741	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-May-2025 10:21:14

Chrom Revision: 2.3 18-Apr-2025 15:35:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X38.D

Injection Date: 08-May-2025 00:03:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-219242-A-1

Lab Sample ID: 410-219242-1

Worklist Smp#: 9

Client ID: HD-COD-SW-6-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

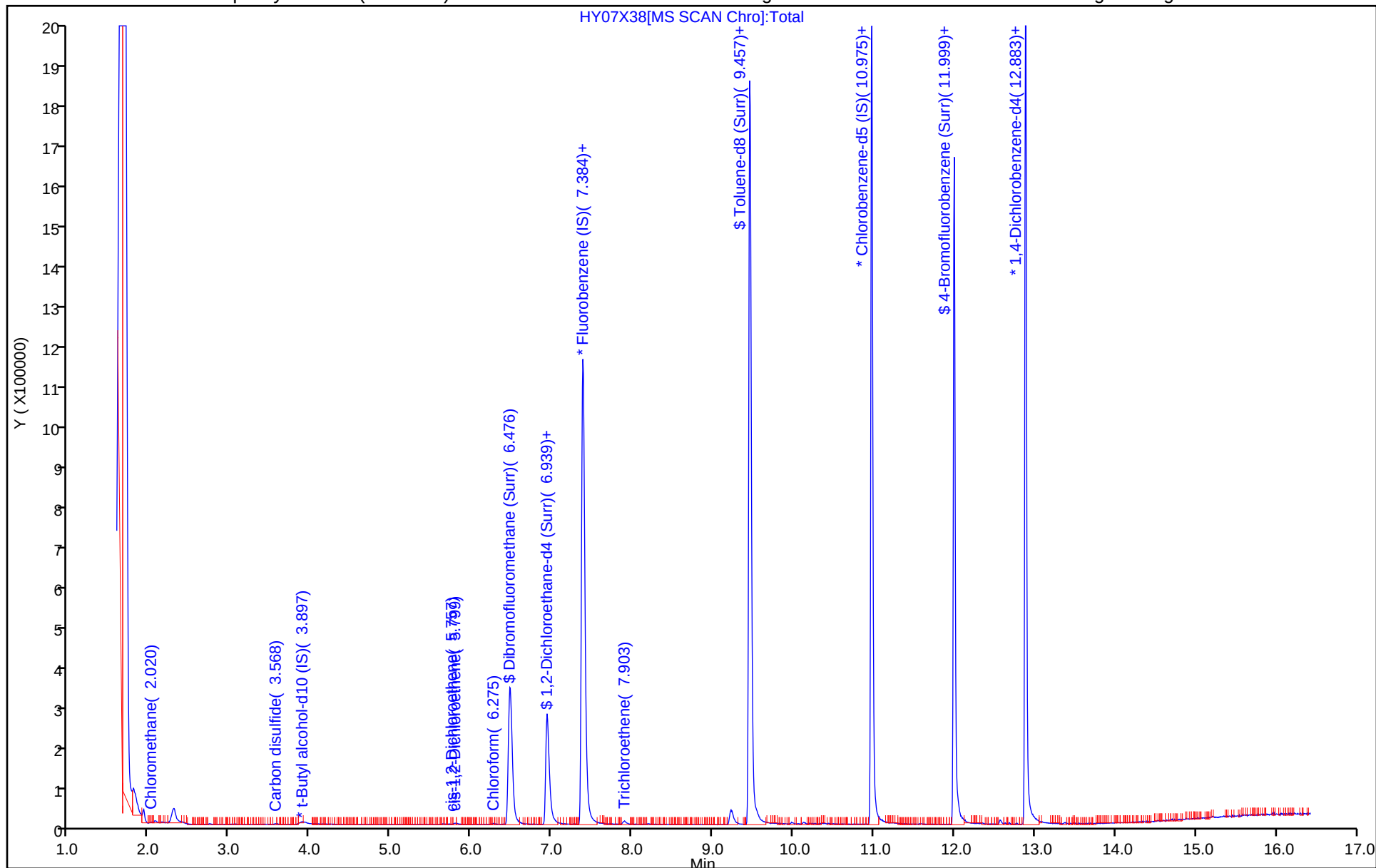
ALS Bottle#: 8

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X38.D
Lims ID: 410-219242-A-1
Client ID: HD-COD-SW-6-0/1-0
Sample Type: Client
Inject. Date: 08-May-2025 00:03:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0146489-009
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 09:25:06

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.1	100.75
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	100.77
\$ 83 Toluene-d8 (Surr)	10.0	10.3	102.86
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.62	96.17

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X38.D

Injection Date: 08-May-2025 00:03:30

Instrument ID: 19094

Lims ID: 410-219242-A-1

Lab Sample ID: 410-219242-1

Client ID: HD-COD-SW-6-0/1-0

Operator ID: gaw91131

ALS Bottle#: 8

Worklist Smp#: 9

Purge Vol: 25.000 mL

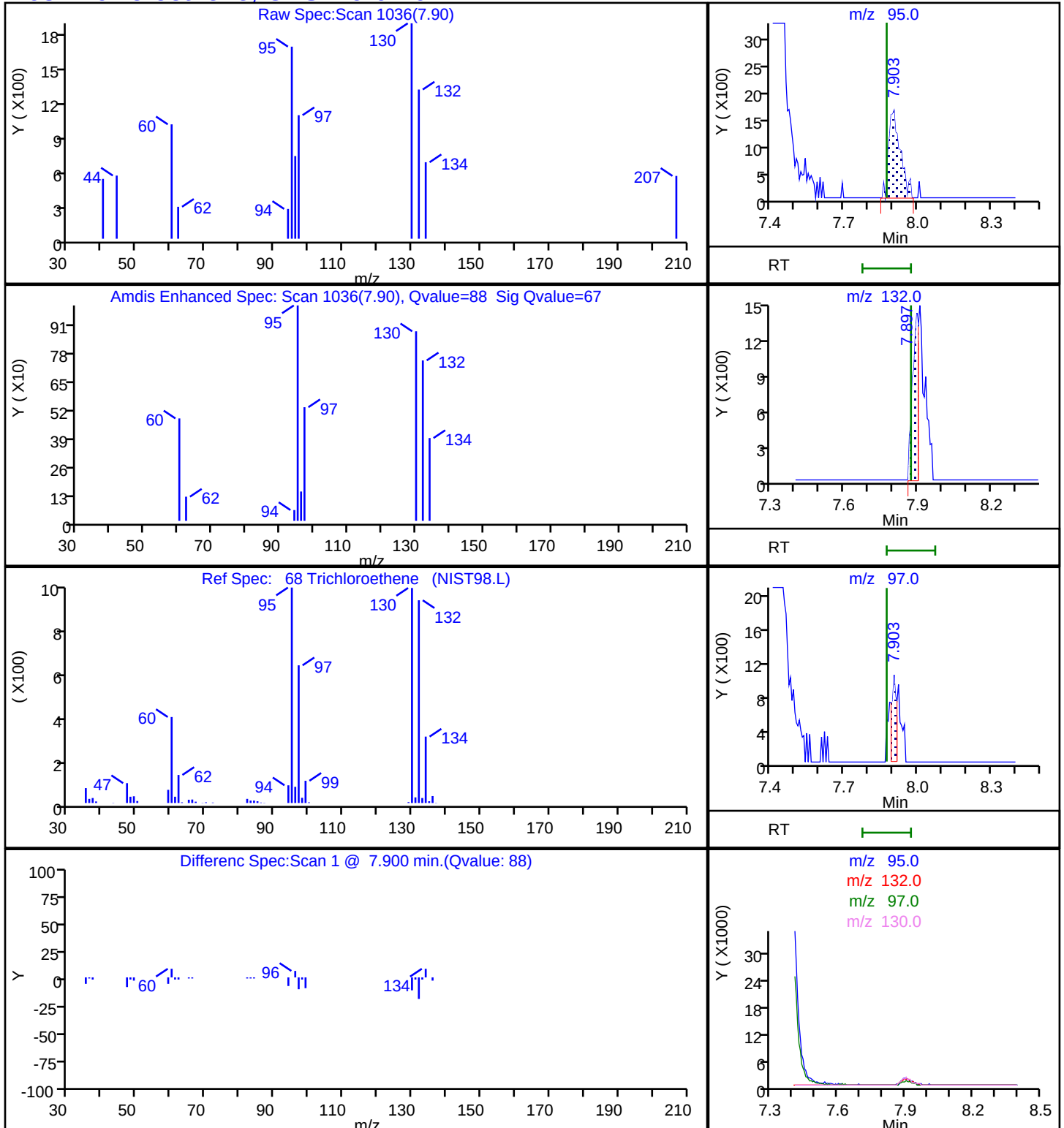
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

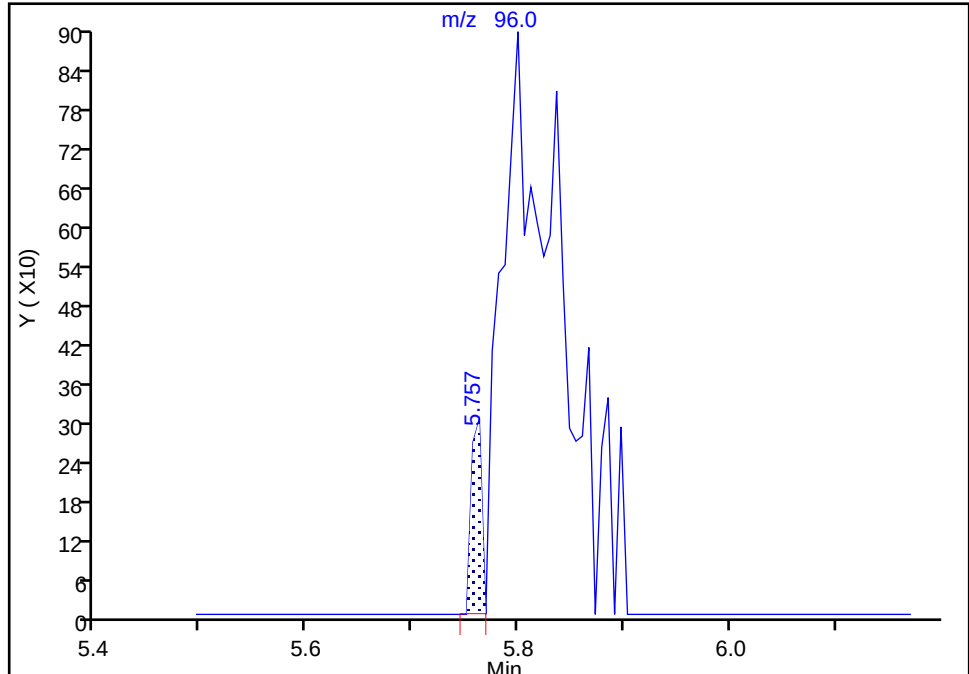
Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X38.D
Injection Date: 08-May-2025 00:03:30 Instrument ID: 19094
Lims ID: 410-219242-A-1 Lab Sample ID: 410-219242-1
Client ID: HD-COD-SW-6-0/1-0
Operator ID: gaw91131 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

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

Signal: 1

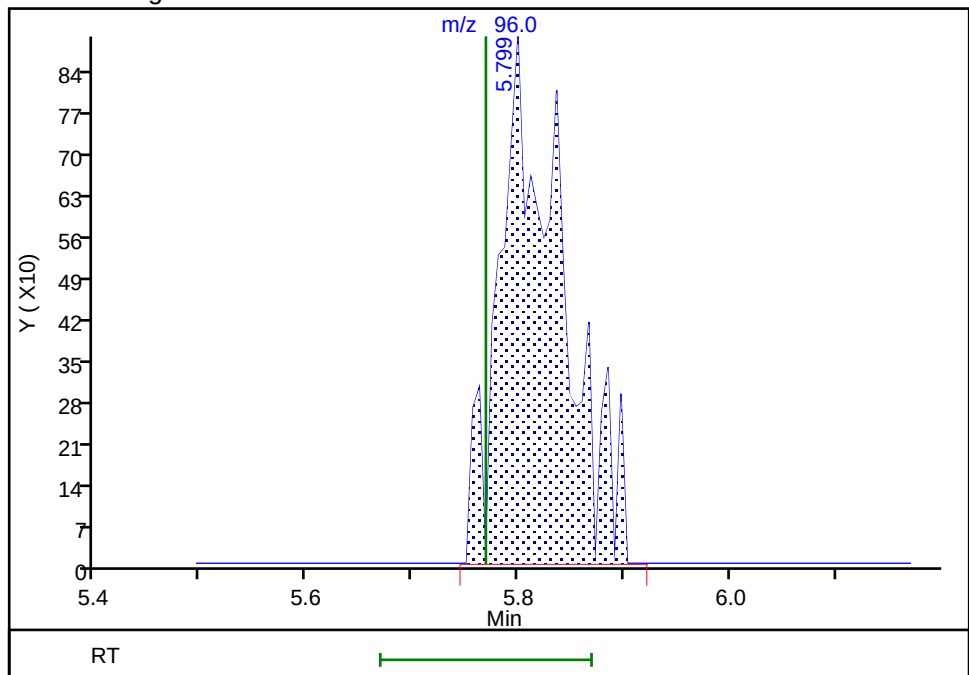
RT: 5.76
Area: 206
Amount: 0.003970
Amount Units: ug/l

Processing Integration Results



RT: 5.80
Area: 3674
Amount: 0.070802
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 09:24:24 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

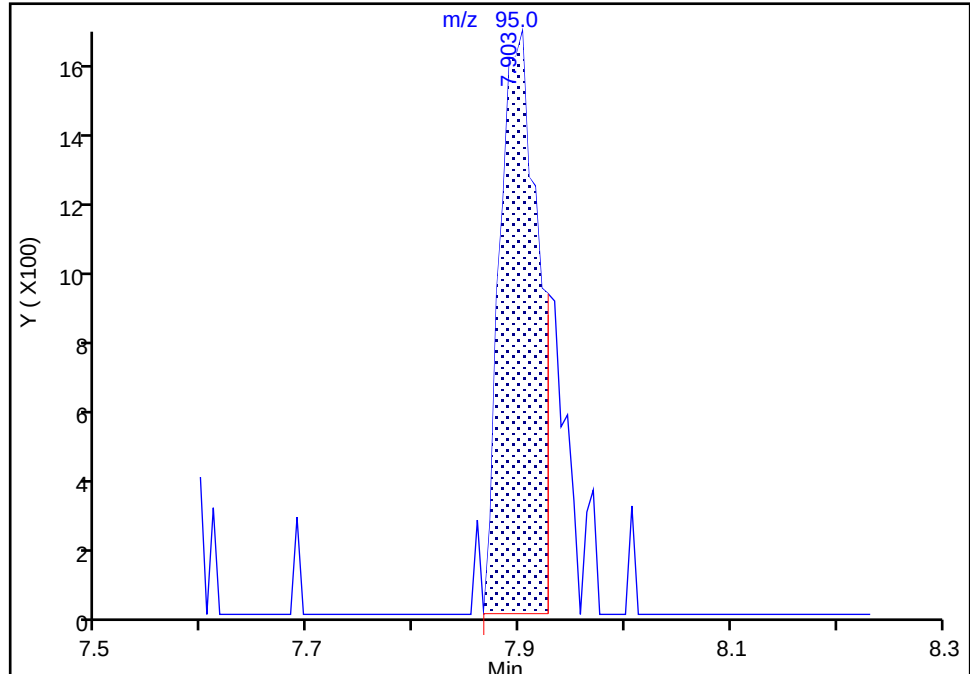
Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X38.D
Injection Date: 08-May-2025 00:03:30 Instrument ID: 19094
Lims ID: 410-219242-A-1 Lab Sample ID: 410-219242-1
Client ID: HD-COD-SW-6-0/1-0
Operator ID: gaw91131 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

68 Trichloroethene, CAS: 79-01-6

Signal: 1

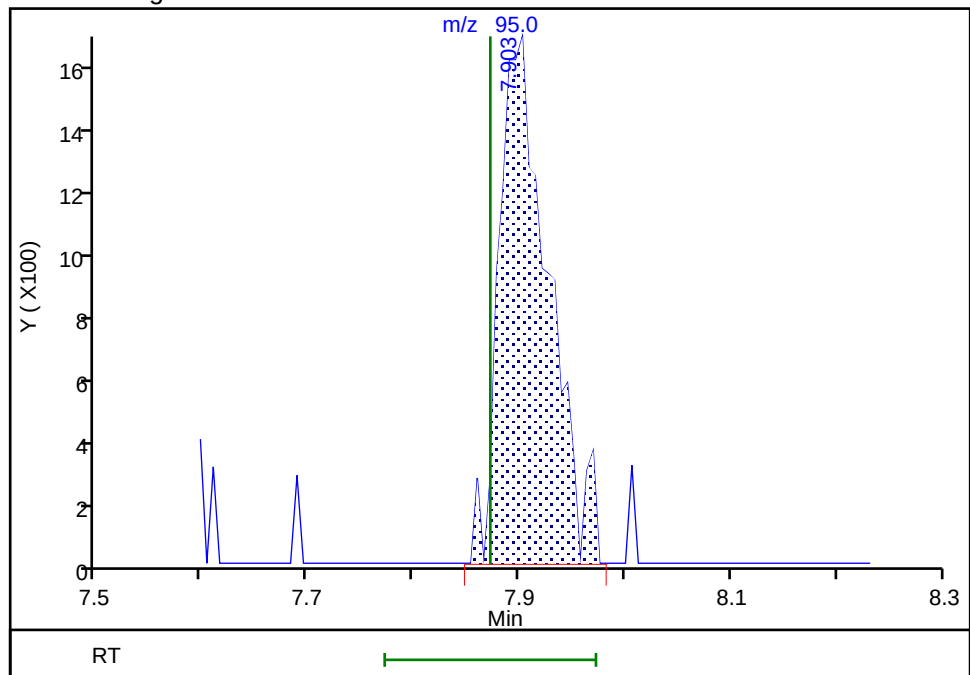
RT: 7.90
Area: 4088
Amount: 0.079470
Amount Units: ug/l

Processing Integration Results



RT: 7.90
Area: 5237
Amount: 0.101806
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 09:24:43 -04:00:00 (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.: 410-219242-1

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0

Lab Sample ID: 410-219242-2

Matrix: Water

Lab File ID: HY07X39.D

Analysis Method: 8260D

Date Collected: 04/24/2025 10:37

Sample wt/vol: 25 (mL)

Date Analyzed: 05/08/2025 00:24

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 640992

Units: ug/L

Preparation Batch No.:

Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND	^c cn	5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.13	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.15	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-7-0/1-0 Lab Sample ID: 410-219242-2

Matrix: Water Lab File ID: HY07X39.D

Analysis Method: 8260D Date Collected: 04/24/2025 10:37

Sample wt/vol: 25 (mL) Date Analyzed: 05/08/2025 00:24

Soil Aliquot Vol: _____ Dilution Factor: 1

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

Purge Volume: 25.0 (mL) Heated Purge: (Y/N) N pH: _____

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

Analysis Batch No.: 640992 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	0.083	J	0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.26	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		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\19094\20250507-146489.b\HY07X39.D
 Lims ID: 410-219242-A-2
 Client ID: HD-COD-SW-7-0/1-0
 Sample Type: Client
 Inject. Date: 08-May-2025 00:24:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0146489-010
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 09:26:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.032	2.032	0.000	79	4419	0.0568	
6 Vinyl chloride	62		2.142				ND	7
9 Bromomethane	94		2.422				ND	
10 Chloroethane	64		2.507				ND	
17 1,1-Dichloroethene	96		3.282				ND	
19 Acetone	43		3.282				ND	
23 Carbon disulfide	76	3.568	3.568	0.000	97	10614	0.0861	M
27 Methylene Chloride	84		3.885				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.897	3.928	-0.031	96	47326	50.0	
32 Methyl tert-butyl ether	73		4.263				ND	
33 trans-1,2-Dichloroethene	96		4.275				ND	
36 1,1-Dichloroethane	63		4.928				ND	
41 2-Butanone (MEK)	43		5.732				ND	7
42 cis-1,2-Dichloroethene	96	5.781	5.769	0.012	73	7940	0.1546	
48 Chlorobromomethane	128		6.104				ND	
50 Chloroform	83	6.275	6.257	0.018	90	10337	0.1288	
\$ 52 Dibromofluoromethane (Surr)	113	6.470	6.476	-0.006	93	365455	10.1	
53 1,1,1-Trichloroethane	97		6.494				ND	
56 Carbon tetrachloride	117		6.714				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.933	6.940	-0.007	46	66529	10.4	
59 Benzene	78		6.970				ND	7
60 1,2-Dichloroethane	62		7.043				ND	
* 64 Fluorobenzene (IS)	96	7.385	7.385	0.000	99	1658589	10.0	
68 Trichloroethene	95	7.897	7.872	0.025	95	13050	0.2563	M
70 1,2-Dichloropropane	63		8.208				ND	
76 Dichlorobromomethane	83		8.561				ND	7
80 cis-1,3-Dichloropropene	75		9.134				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.317				ND	
\$ 83 Toluene-d8 (Surr)	98	9.457	9.457	0.000	94	1621236	10.1	
84 Toluene	92	9.549	9.537	0.012	98	10417	0.0828	
85 trans-1,3-Dichloropropene	75		9.817				ND	
106 1,1,2-Trichloroethane	97		10.030				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.122	10.116	0.006	92	5273	0.0905	M
109 2-Hexanone	43		10.250				ND	
111 Chlorodibromomethane	129		10.414				ND	
112 Ethylene Dibromide	107		10.530				ND	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	87	1185865	10.0	
115 Chlorobenzene	112		11.000				ND	
116 1,1,1,2-Tetrachloroethane	131		11.085				ND	
117 Ethylbenzene	91		11.091				ND	7
119 m-Xylene & p-Xylene	106		11.207				ND	
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.542				ND	
121 Styrene	104		11.561				ND	
122 Bromoform	173		11.719				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.000	11.993	0.007	92	564303	9.61	
127 1,1,2,2-Tetrachloroethane	83		12.097				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.883	12.883	0.000	95	611227	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-May-2025 10:21:18

Chrom Revision: 2.3 18-Apr-2025 15:35:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X39.D

Injection Date: 08-May-2025 00:24:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-219242-A-2

Lab Sample ID: 410-219242-2

Worklist Smp#: 10

Client ID: HD-COD-SW-7-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

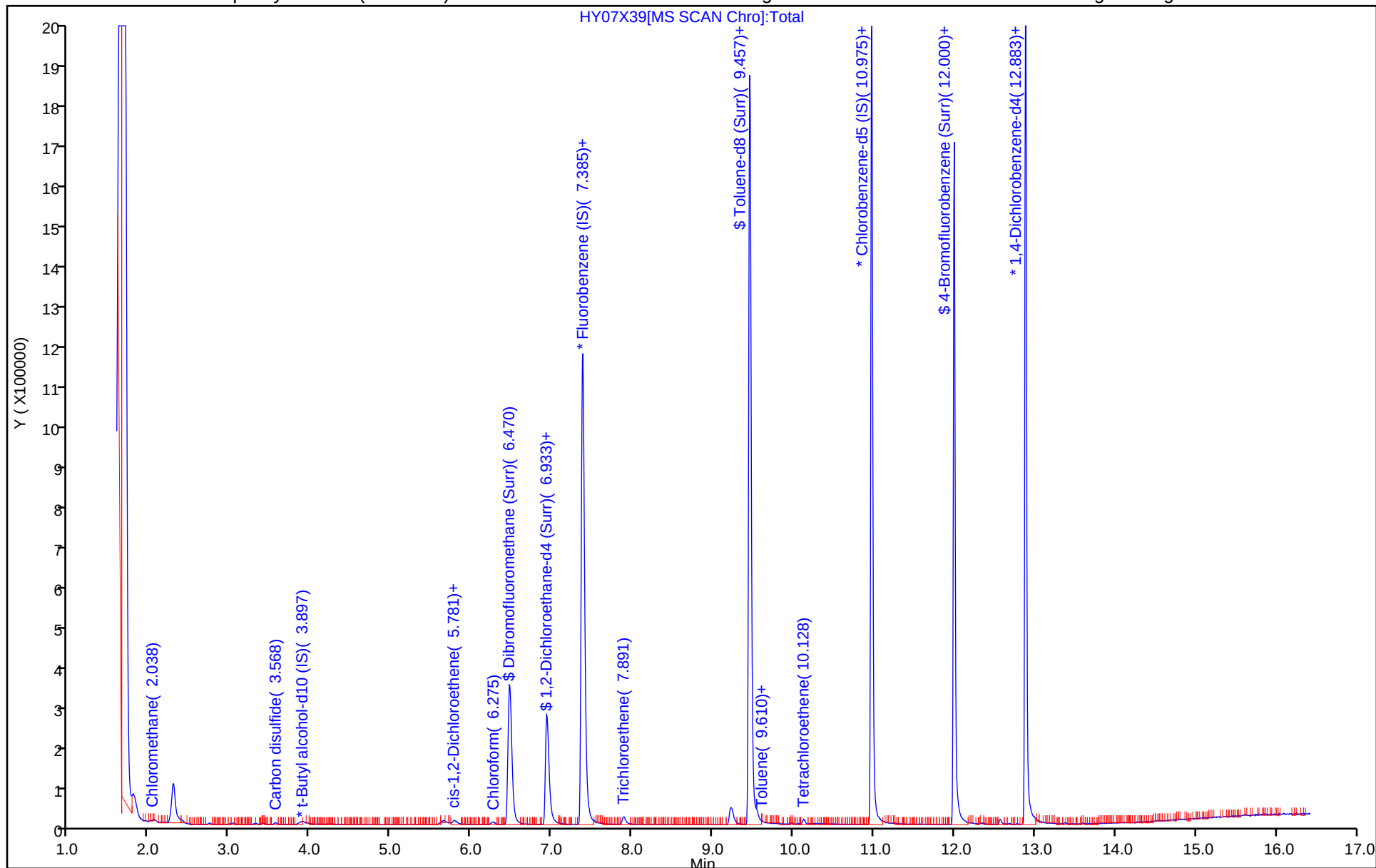
ALS Bottle#: 9

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X39.D
Lims ID: 410-219242-A-2
Client ID: HD-COD-SW-7-0/1-0
Sample Type: Client
Inject. Date: 08-May-2025 00:24:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0146489-010
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 09:26:21

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.1	101.45
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.31
\$ 83 Toluene-d8 (Surr)	10.0	10.1	101.05
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.61	96.09

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X39.D

Injection Date: 08-May-2025 00:24:30

Instrument ID: 19094

Lims ID: 410-219242-A-2

Lab Sample ID: 410-219242-2

Client ID: HD-COD-SW-7-0/1-0

Operator ID: gaw91131

ALS Bottle#: 9

Worklist Smp#: 10

Purge Vol: 25.000 mL

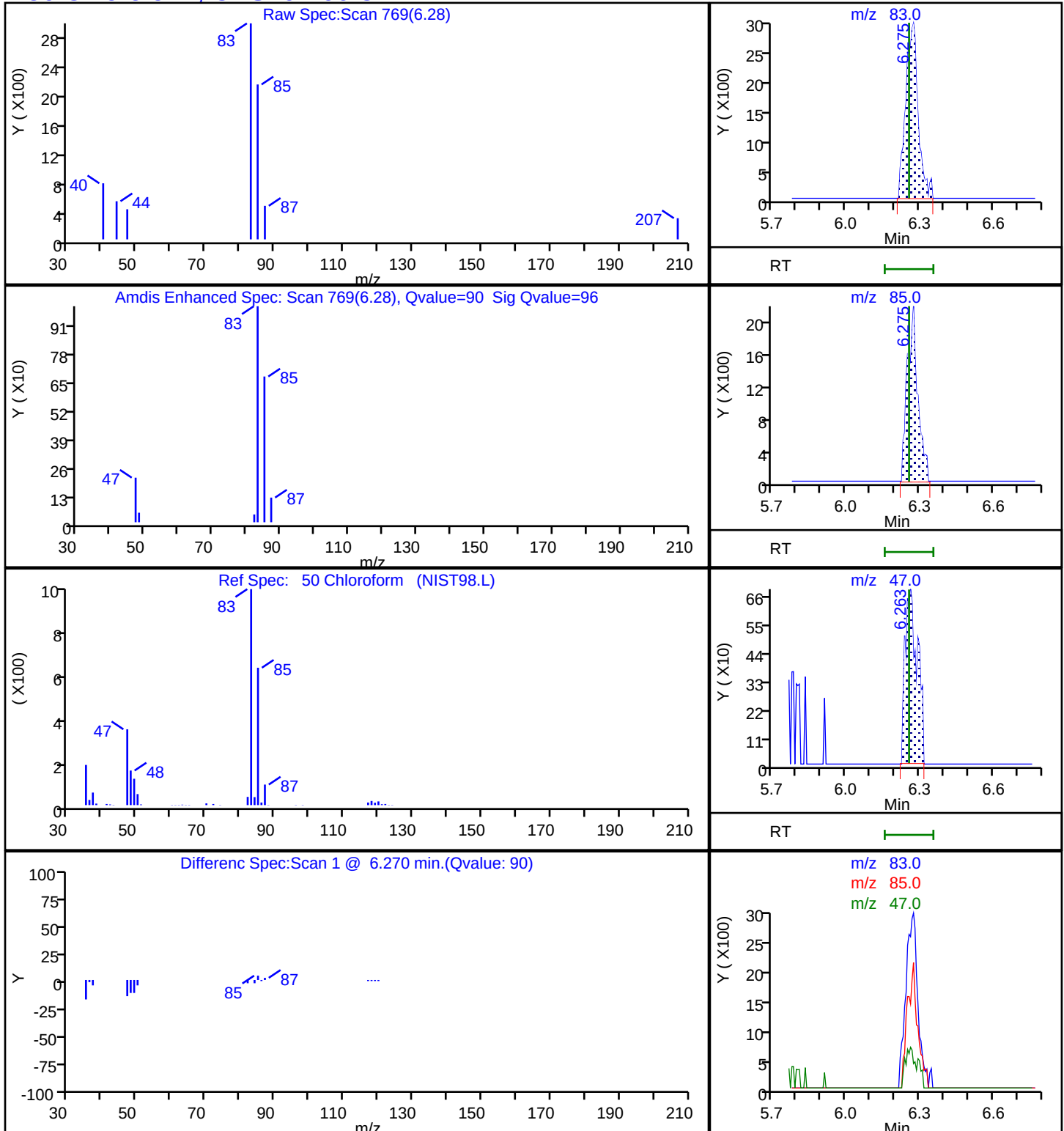
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X39.D

Injection Date: 08-May-2025 00:24:30

Instrument ID: 19094

Lims ID: 410-219242-A-2

Lab Sample ID: 410-219242-2

Client ID: HD-COD-SW-7-0/1-0

Operator ID: gaw91131

ALS Bottle#: 9

Worklist Smp#: 10

Purge Vol: 25.000 mL

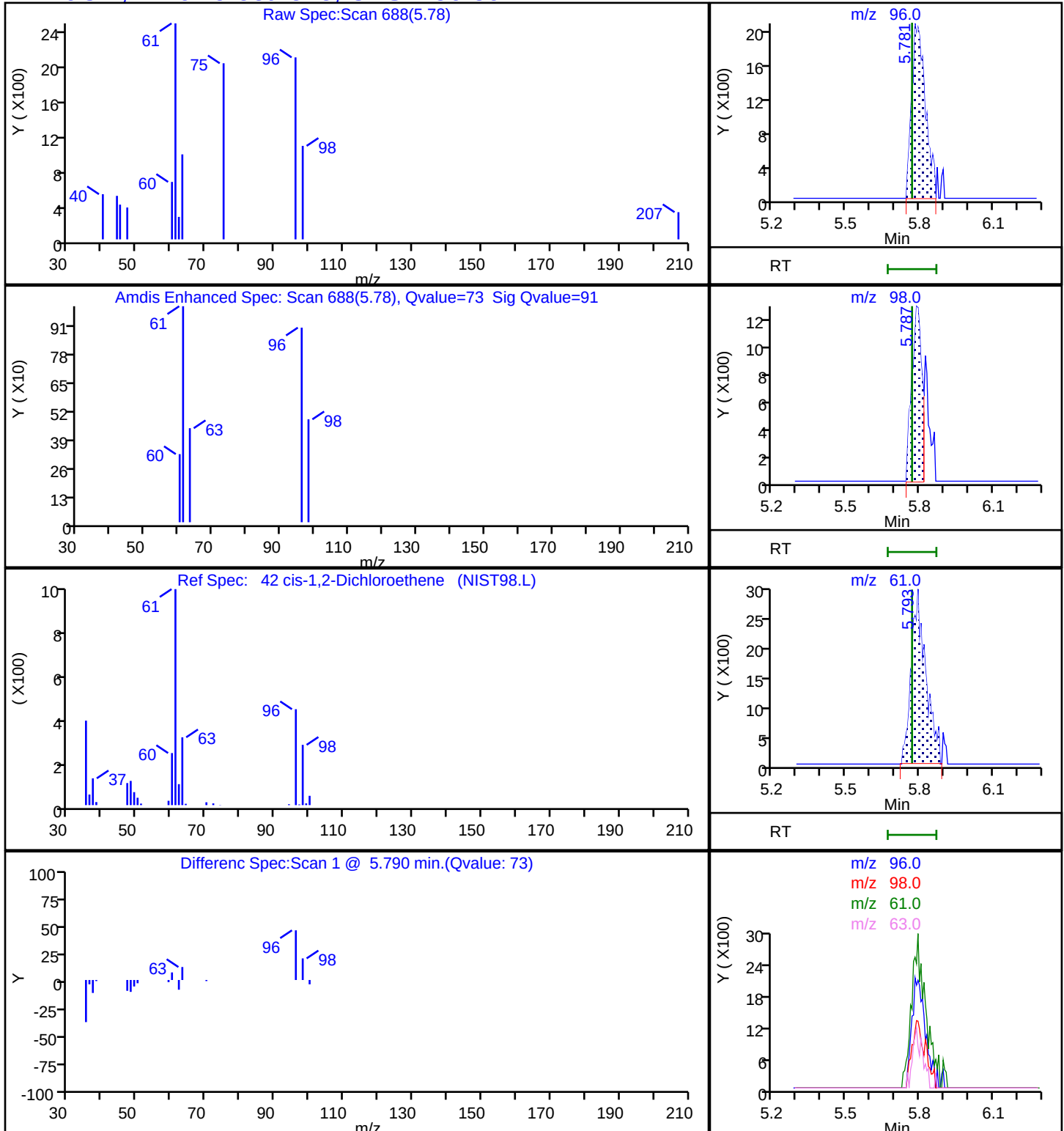
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X39.D

Injection Date: 08-May-2025 00:24:30

Instrument ID: 19094

Lims ID: 410-219242-A-2

Lab Sample ID: 410-219242-2

Client ID: HD-COD-SW-7-0/1-0

Operator ID: gaw91131

ALS Bottle#: 9

Worklist Smp#: 10

Purge Vol: 25.000 mL

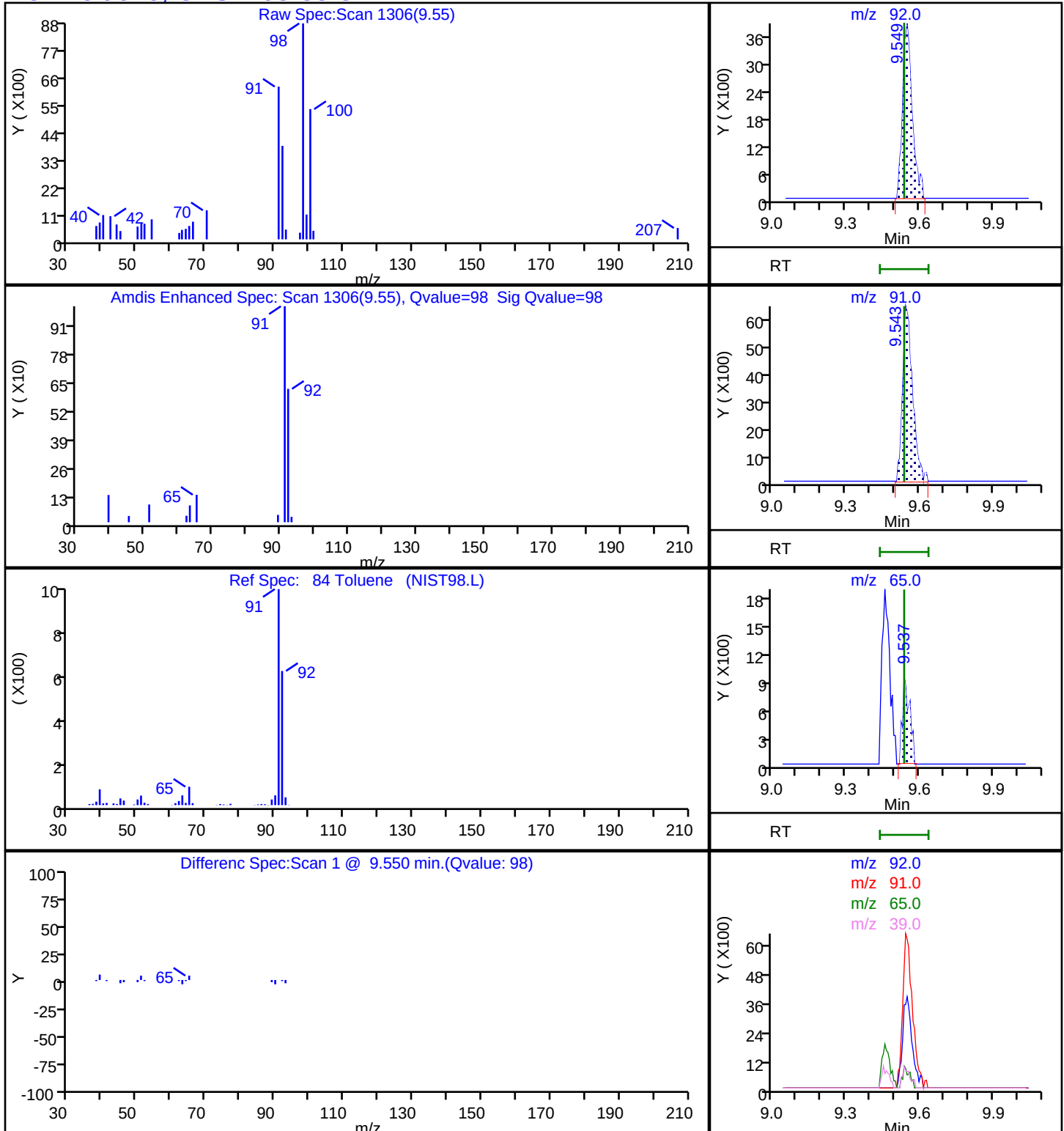
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

84 Toluene, CAS: 108-88-3

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X39.D

Injection Date: 08-May-2025 00:24:30

Instrument ID: 19094

Lims ID: 410-219242-A-2

Lab Sample ID: 410-219242-2

Client ID: HD-COD-SW-7-0/1-0

Operator ID: gaw91131

ALS Bottle#: 9

Worklist Smp#: 10

Purge Vol: 25.000 mL

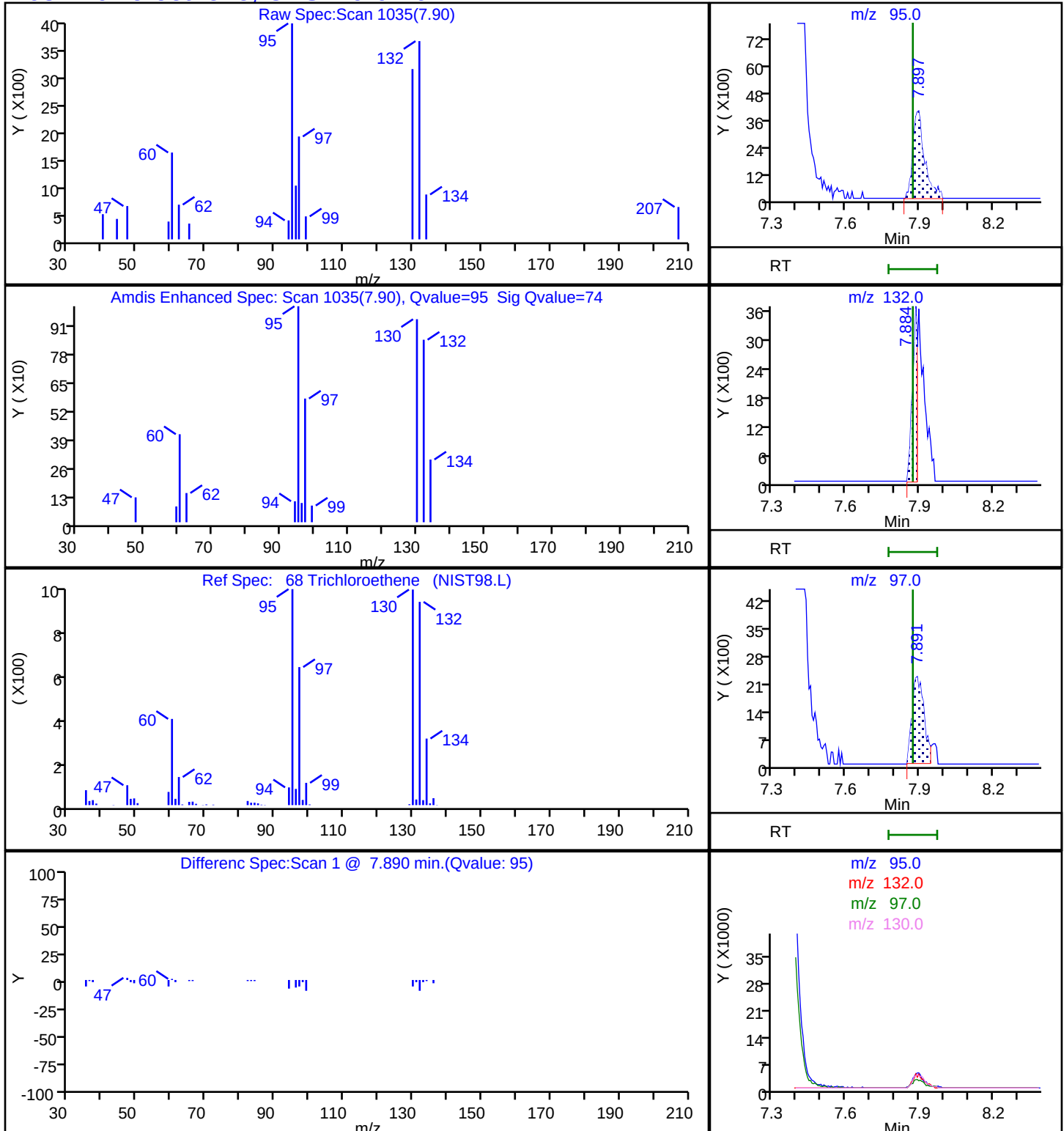
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

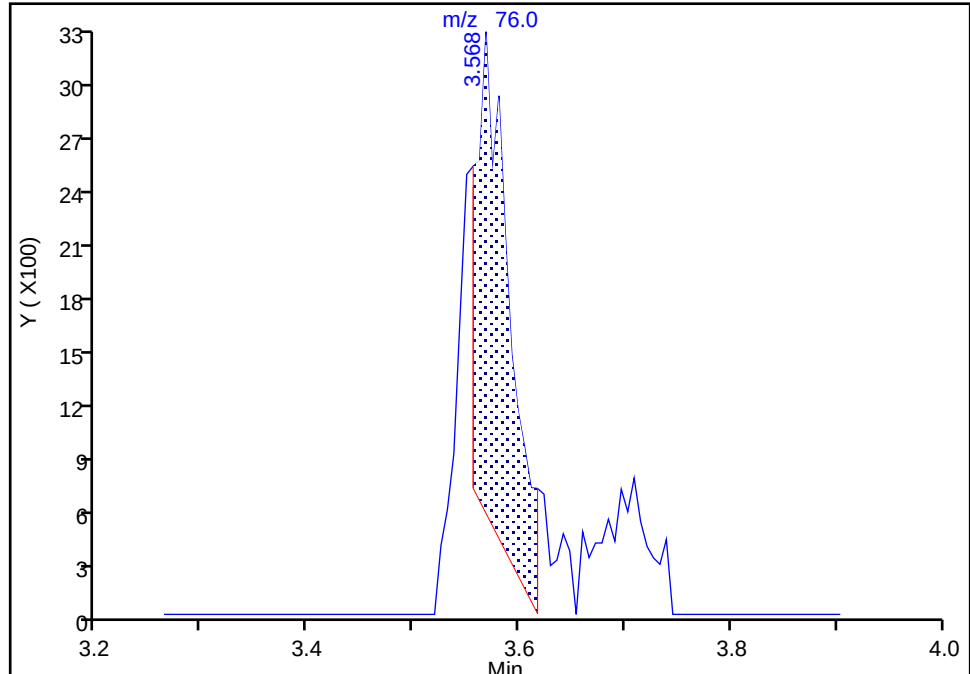
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Injection Date: 08-May-2025 00:24:30 Instrument ID: 19094
Lims ID: 410-219242-A-2 Lab Sample ID: 410-219242-2
Client ID: HD-COD-SW-7-0/1-0
Operator ID: gaw91131 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Carbon disulfide, CAS: 75-15-0

Signal: 1

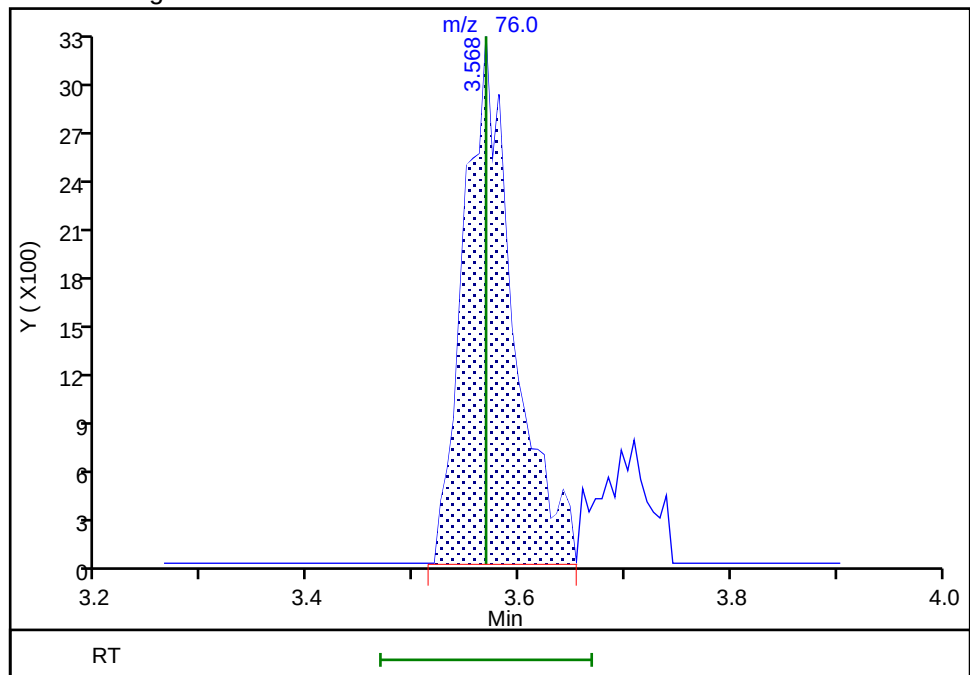
RT: 3.57
Area: 6212
Amount: 0.050370
Amount Units: ug/l

Processing Integration Results



RT: 3.57
Area: 10614
Amount: 0.086063
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 09:25:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

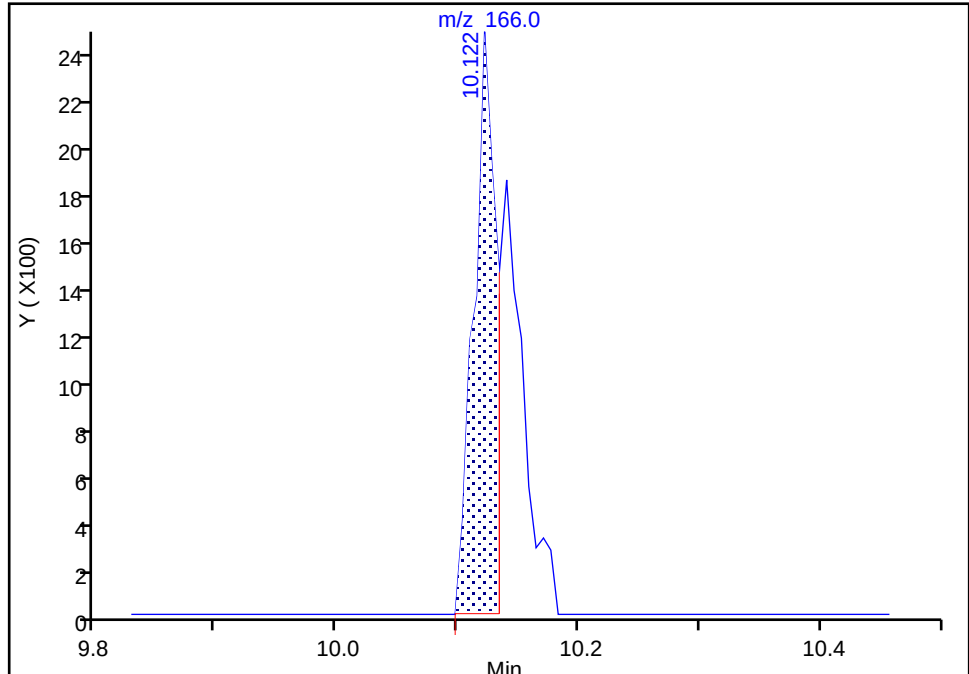
Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X39.D
Injection Date: 08-May-2025 00:24:30 Instrument ID: 19094
Lims ID: 410-219242-A-2 Lab Sample ID: 410-219242-2
Client ID: HD-COD-SW-7-0/1-0
Operator ID: gaw91131 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

107 Tetrachloroethene, CAS: 127-18-4

Signal: 1

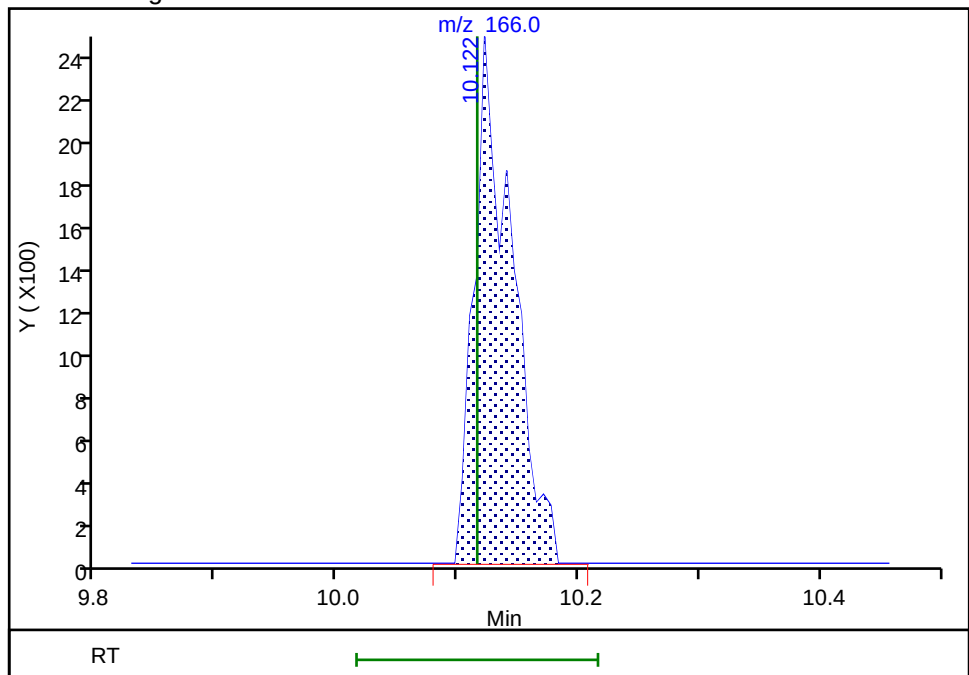
RT: 10.12
Area: 3165
Amount: 0.054339
Amount Units: ug/l

Processing Integration Results



RT: 10.12
Area: 5273
Amount: 0.090531
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 09:26:07 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

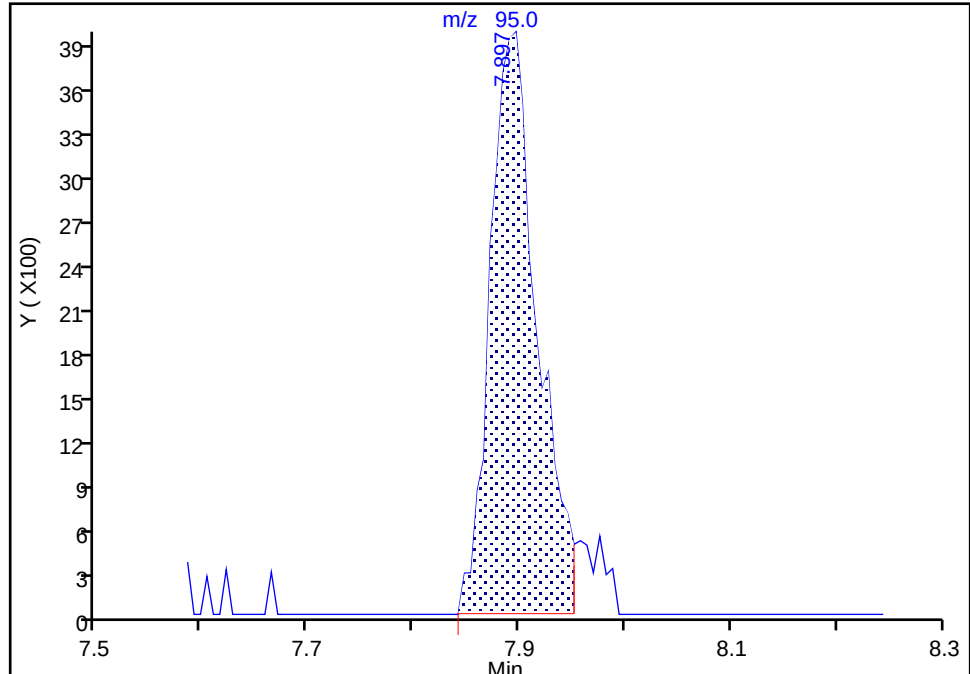
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Injection Date: 08-May-2025 00:24:30 Instrument ID: 19094
Lims ID: 410-219242-A-2 Lab Sample ID: 410-219242-2
Client ID: HD-COD-SW-7-0/1-0
Operator ID: gaw91131 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

68 Trichloroethene, CAS: 79-01-6

Signal: 1

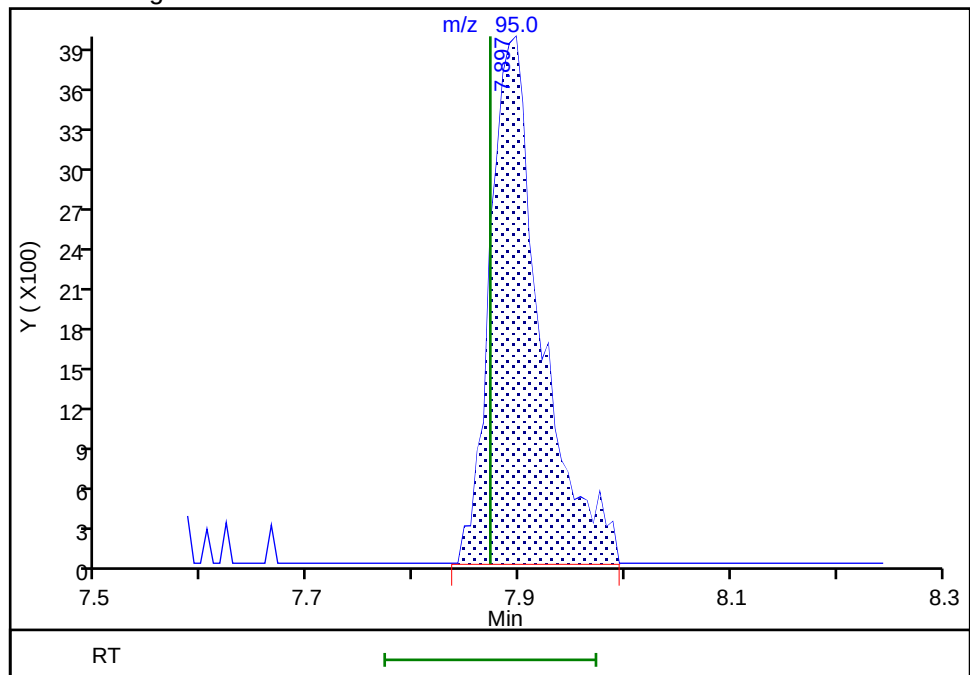
RT: 7.90
Area: 12190
Amount: 0.239393
Amount Units: ug/l

Processing Integration Results



RT: 7.90
Area: 13050
Amount: 0.256282
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 09:25:50 -04:00:00 (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.: 410-219242-1

SDG No.:

Client Sample ID: HD-COD-SW-8-0/1-0

Lab Sample ID: 410-219242-3

Matrix: Water

Lab File ID: HY07X40.D

Analysis Method: 8260D

Date Collected: 04/24/2025 08:47

Sample wt/vol: 25 (mL)

Date Analyzed: 05/08/2025 00:45

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 640992

Units: ug/L

Preparation Batch No.:

Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND	^c cn	5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.19	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.91		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-8-0/1-0 Lab Sample ID: 410-219242-3

Matrix: Water Lab File ID: HY07X40.D

Analysis Method: 8260D Date Collected: 04/24/2025 08:47

Sample wt/vol: 25 (mL) Date Analyzed: 05/08/2025 00:45

Soil Aliquot Vol: _____ Dilution Factor: 1

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

Purge Volume: 25.0 (mL) Heated Purge: (Y/N) N pH: _____

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

Analysis Batch No.: 640992 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	0.099	J	0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.23	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

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)	100		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\19094\20250507-146489.b\HY07X40.D
 Lims ID: 410-219242-A-3
 Client ID: HD-COD-SW-8-0/1-0
 Sample Type: Client
 Inject. Date: 08-May-2025 00:45:30 ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0146489-011
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 09:27:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.026	2.032	-0.006	92	3908	0.0503	
6 Vinyl chloride	62		2.142				ND	7
9 Bromomethane	94		2.422				ND	
10 Chloroethane	64		2.507				ND	
17 1,1-Dichloroethene	96		3.282				ND	
19 Acetone	43		3.282				ND	
23 Carbon disulfide	76	3.556	3.568	-0.012	94	6306	0.0513	M
27 Methylene Chloride	84		3.885				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.903	3.928	-0.025	96	49083	50.0	
32 Methyl tert-butyl ether	73		4.263				ND	
33 trans-1,2-Dichloroethene	96		4.275				ND	
36 1,1-Dichloroethane	63		4.928				ND	7
41 2-Butanone (MEK)	43		5.732				ND	
42 cis-1,2-Dichloroethene	96	5.799	5.769	0.030	79	9637	0.1881	M
48 Chlorobromomethane	128		6.104				ND	
50 Chloroform	83	6.263	6.257	0.006	89	7159	0.0895	M
\$ 52 Dibromofluoromethane (Surr)	113	6.476	6.476	0.000	93	358970	10.0	
53 1,1,1-Trichloroethane	97	6.482	6.494	-0.012	35	4202	0.0580	
56 Carbon tetrachloride	117		6.714				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.939	6.940	-0.001	48	65494	10.3	
59 Benzene	78		6.970				ND	7
60 1,2-Dichloroethane	62		7.043				ND	
* 64 Fluorobenzene (IS)	96	7.384	7.385	-0.001	98	1654092	10.0	
68 Trichloroethene	95	7.890	7.872	0.018	96	11493	0.2263	M
70 1,2-Dichloropropane	63		8.208				ND	
76 Dichlorobromomethane	83		8.561				ND	
80 cis-1,3-Dichloropropene	75		9.134				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.317				ND	
\$ 83 Toluene-d8 (Surr)	98	9.457	9.457	0.000	94	1640988	10.1	
84 Toluene	92	9.555	9.537	0.018	99	12561	0.0987	
85 trans-1,3-Dichloropropene	75		9.817				ND	
106 1,1,2-Trichloroethane	97		10.030				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.116	10.116	0.000	98	53704	0.9120	
109 2-Hexanone	43		10.250				ND	
111 Chlorodibromomethane	129		10.414				ND	
112 Ethylene Dibromide	107		10.530				ND	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	87	1198963	10.0	
115 Chlorobenzene	112		11.000				ND	
116 1,1,1,2-Tetrachloroethane	131		11.085				ND	
117 Ethylbenzene	91		11.091				ND	7
119 m-Xylene & p-Xylene	106		11.207				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.542				ND	7
121 Styrene	104		11.561				ND	
122 Bromoform	173		11.719				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	11.999	11.993	0.006	91	572853	9.65	
127 1,1,2,2-Tetrachloroethane	83		12.097				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.890	12.883	0.007	95	603899	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

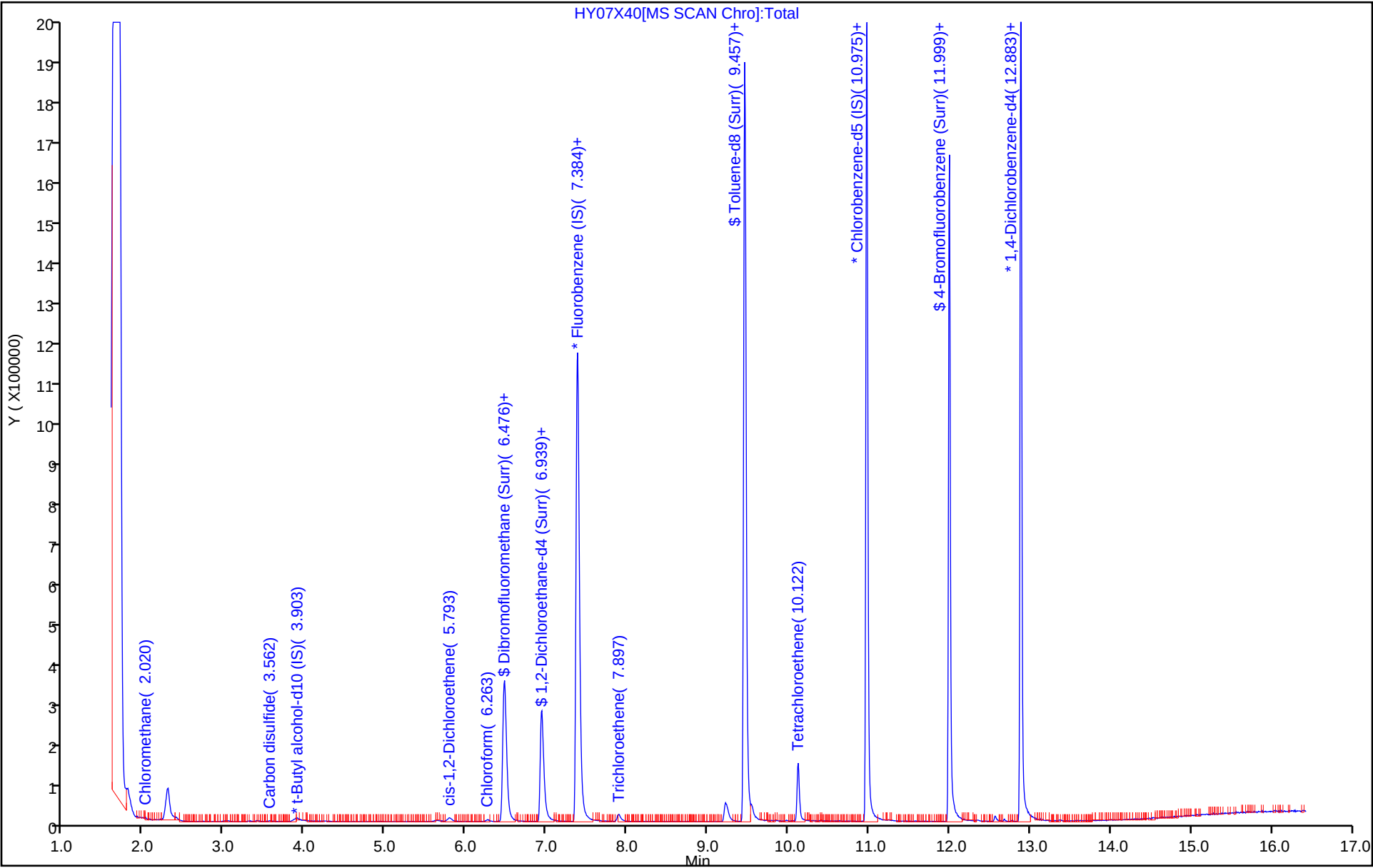
Reagents:

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X40.D
Lims ID: 410-219242-A-3
Client ID: HD-COD-SW-8-0/1-0
Sample Type: Client
Inject. Date: 08-May-2025 00:45:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0146489-011
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 09:27:34

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.0	99.92
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	102.96
\$ 83 Toluene-d8 (Surr)	10.0	10.1	101.16
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.65	96.48

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X40.D

Injection Date: 08-May-2025 00:45:30

Instrument ID: 19094

Lims ID: 410-219242-A-3

Lab Sample ID: 410-219242-3

Client ID: HD-COD-SW-8-0/1-0

Operator ID: gaw91131

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 25.000 mL

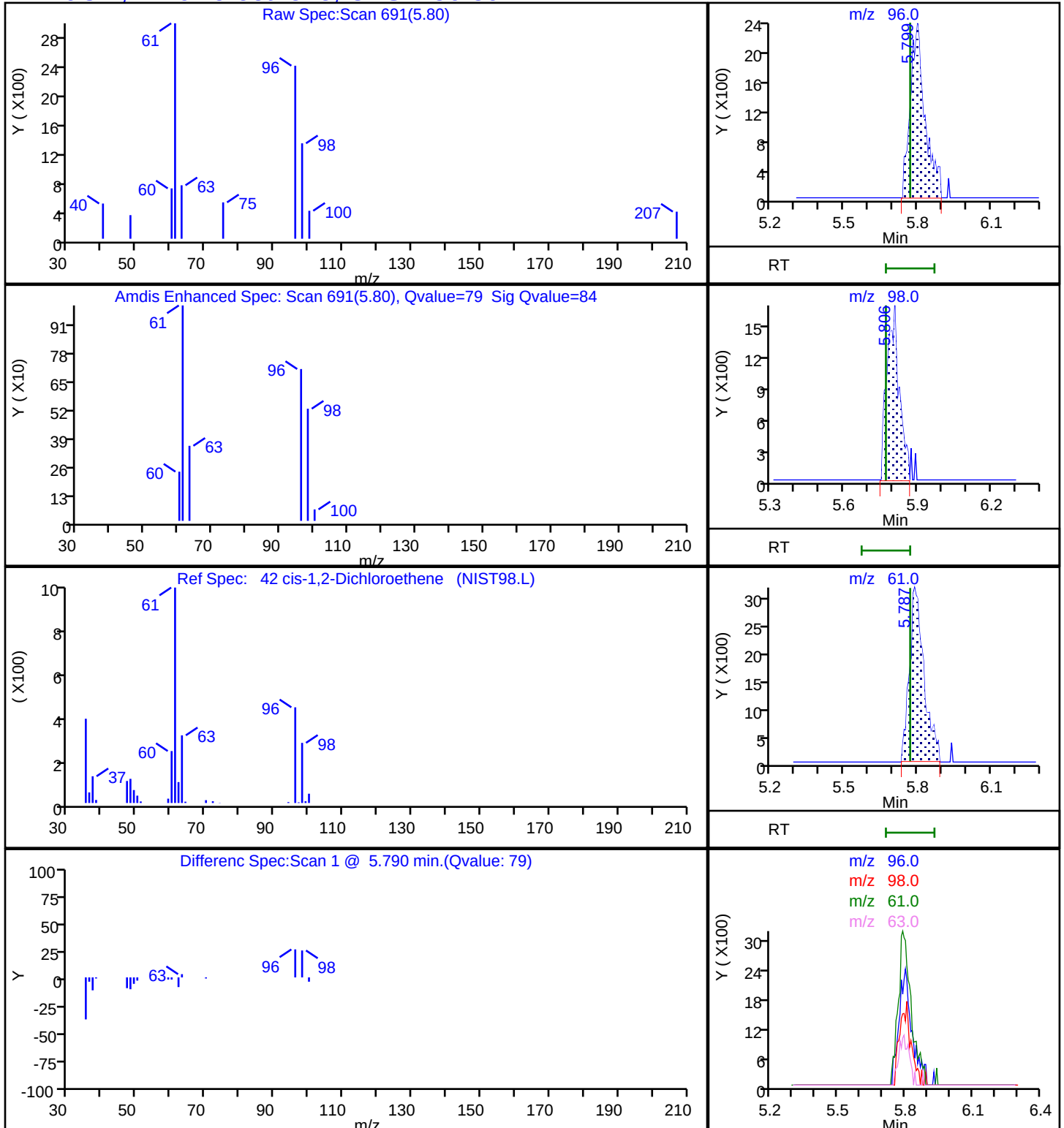
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X40.D

Injection Date: 08-May-2025 00:45:30

Instrument ID: 19094

Lims ID: 410-219242-A-3

Lab Sample ID: 410-219242-3

Client ID: HD-COD-SW-8-0/1-0

Operator ID: gaw91131

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 25.000 mL

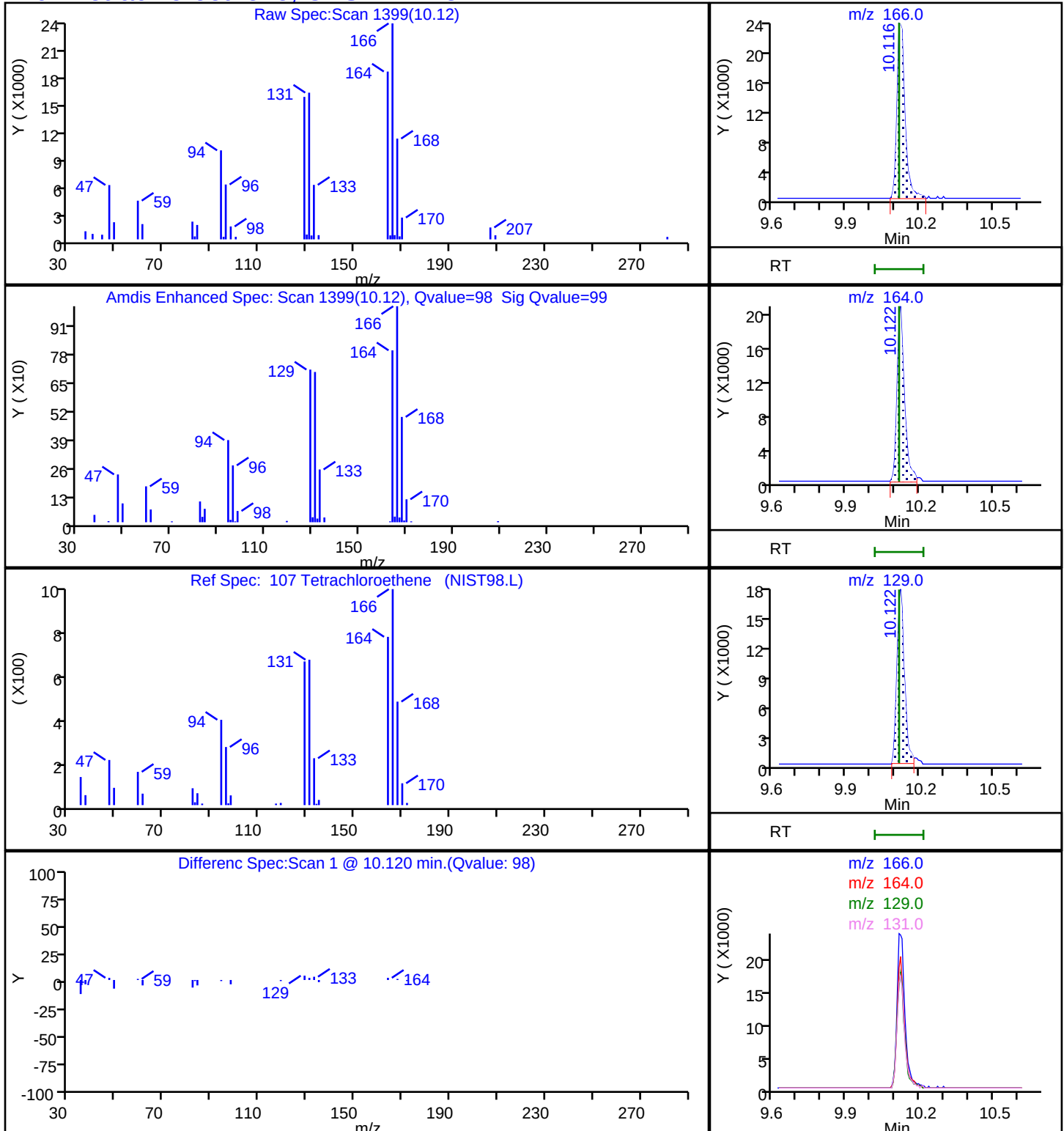
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

107 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X40.D

Injection Date: 08-May-2025 00:45:30

Instrument ID: 19094

Lims ID: 410-219242-A-3

Lab Sample ID: 410-219242-3

Client ID: HD-COD-SW-8-0/1-0

Operator ID: gaw91131

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 25.000 mL

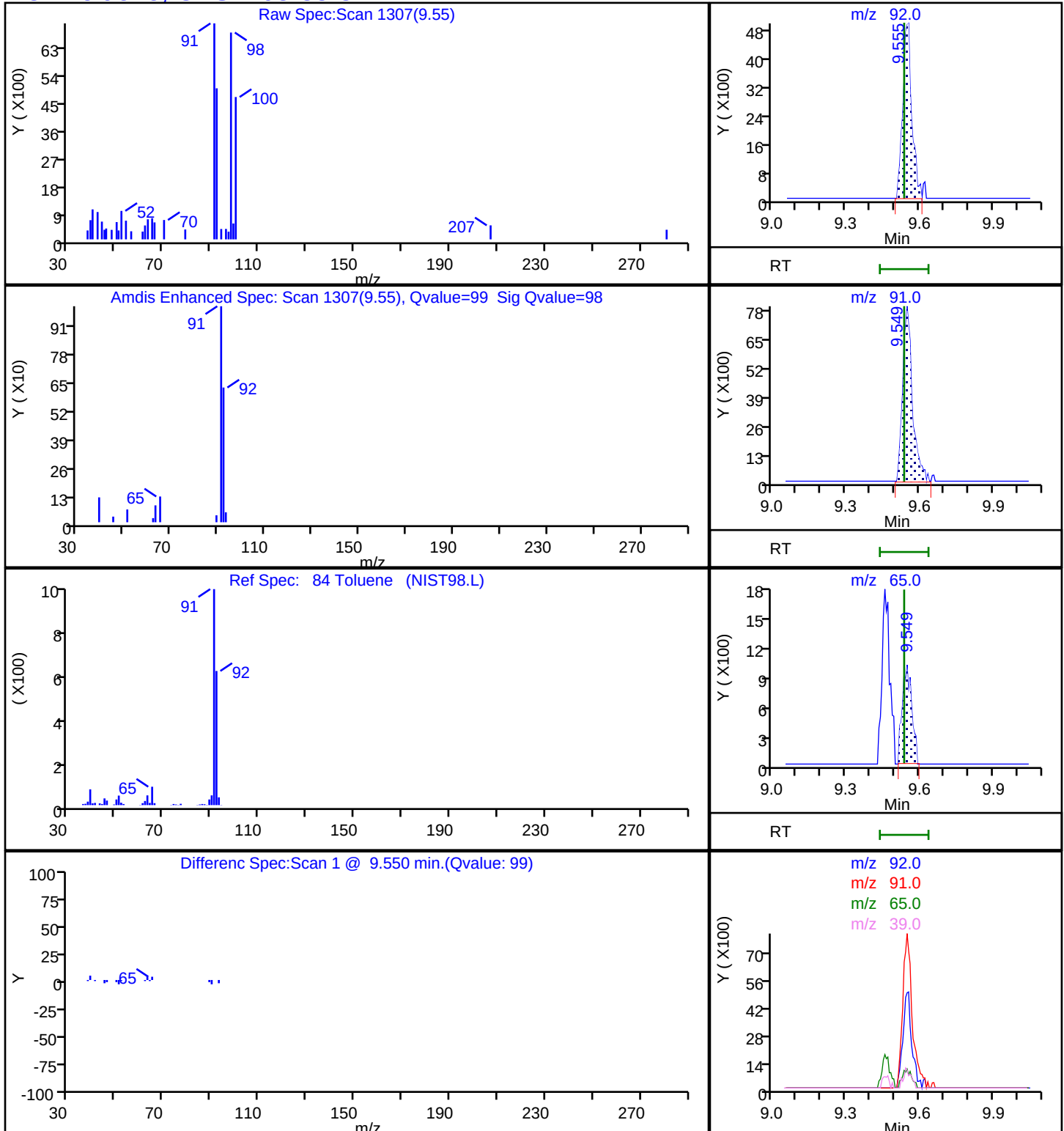
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

84 Toluene, CAS: 108-88-3

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X40.D

Injection Date: 08-May-2025 00:45:30

Instrument ID: 19094

Lims ID: 410-219242-A-3

Lab Sample ID: 410-219242-3

Client ID: HD-COD-SW-8-0/1-0

Operator ID: gaw91131

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 25.000 mL

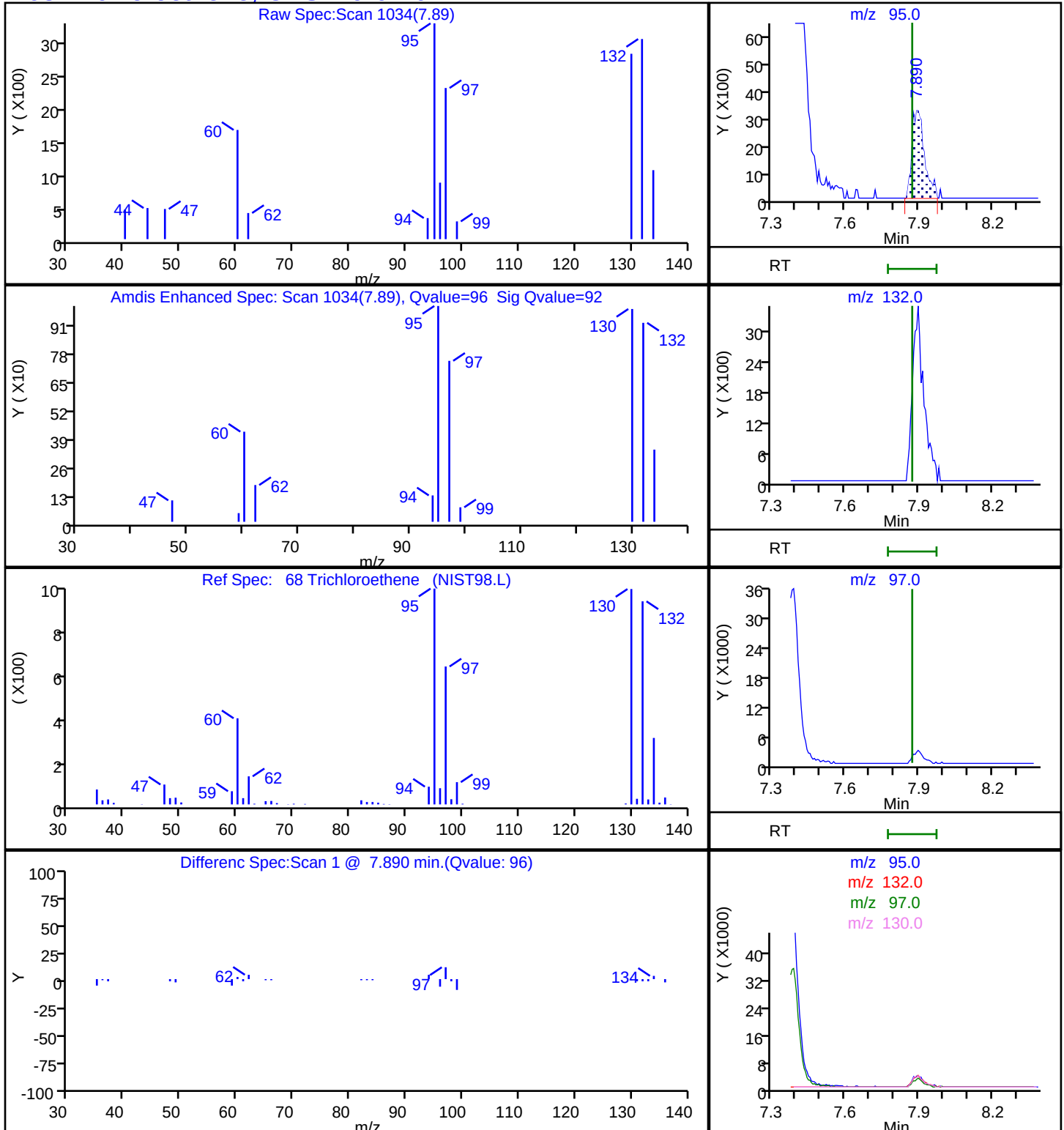
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 100m

MS Quad

68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

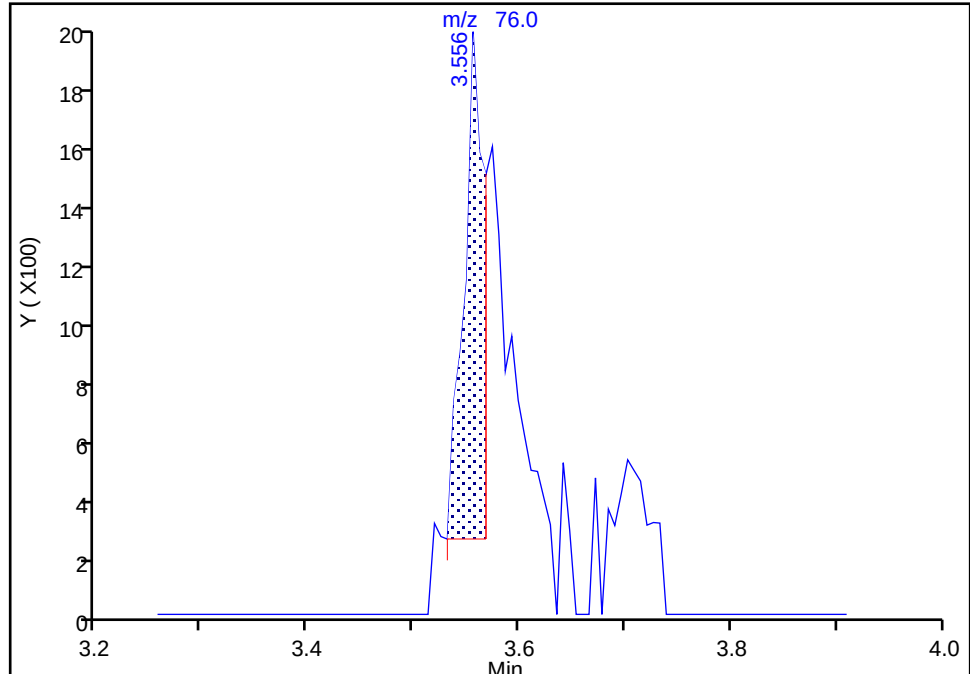
Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X40.D
Injection Date: 08-May-2025 00:45:30 Instrument ID: 19094
Lims ID: 410-219242-A-3 Lab Sample ID: 410-219242-3
Client ID: HD-COD-SW-8-0/1-0
Operator ID: gaw91131 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Carbon disulfide, CAS: 75-15-0

Signal: 1

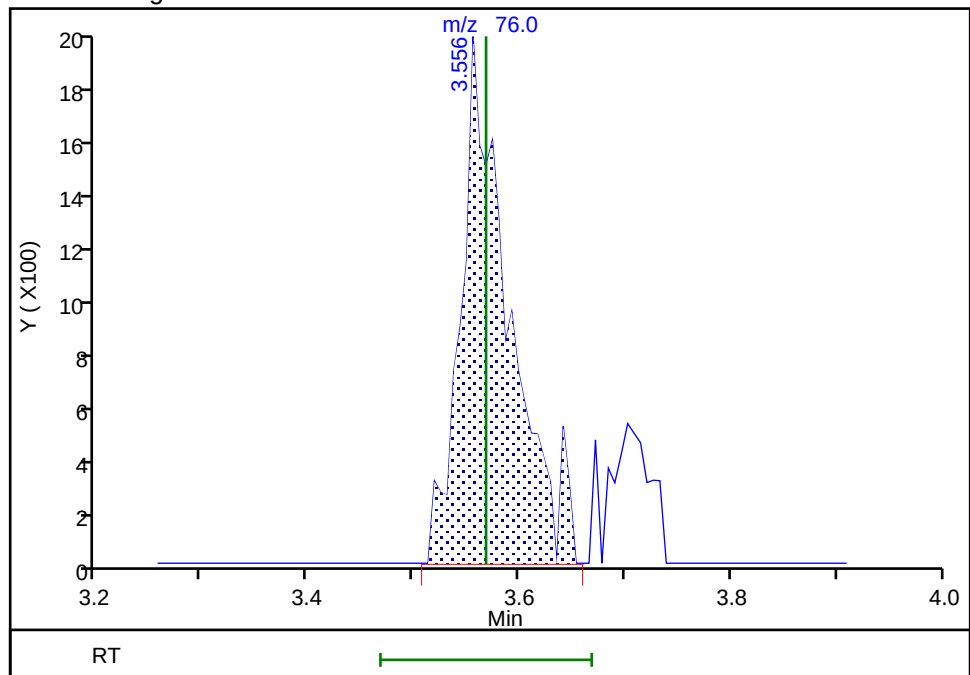
RT: 3.56
Area: 2312
Amount: 0.018798
Amount Units: ug/l

Processing Integration Results



RT: 3.56
Area: 6306
Amount: 0.051271
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 09:26:39 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

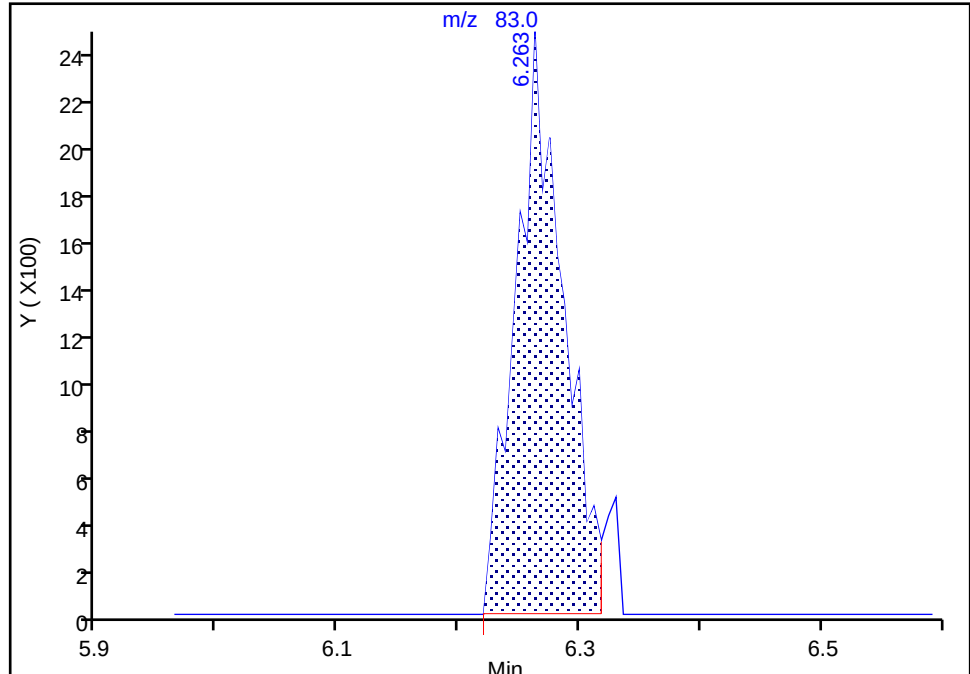
Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X40.D
Injection Date: 08-May-2025 00:45:30 Instrument ID: 19094
Lims ID: 410-219242-A-3 Lab Sample ID: 410-219242-3
Client ID: HD-COD-SW-8-0/1-0
Operator ID: gaw91131 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

50 Chloroform, CAS: 67-66-3

Signal: 1

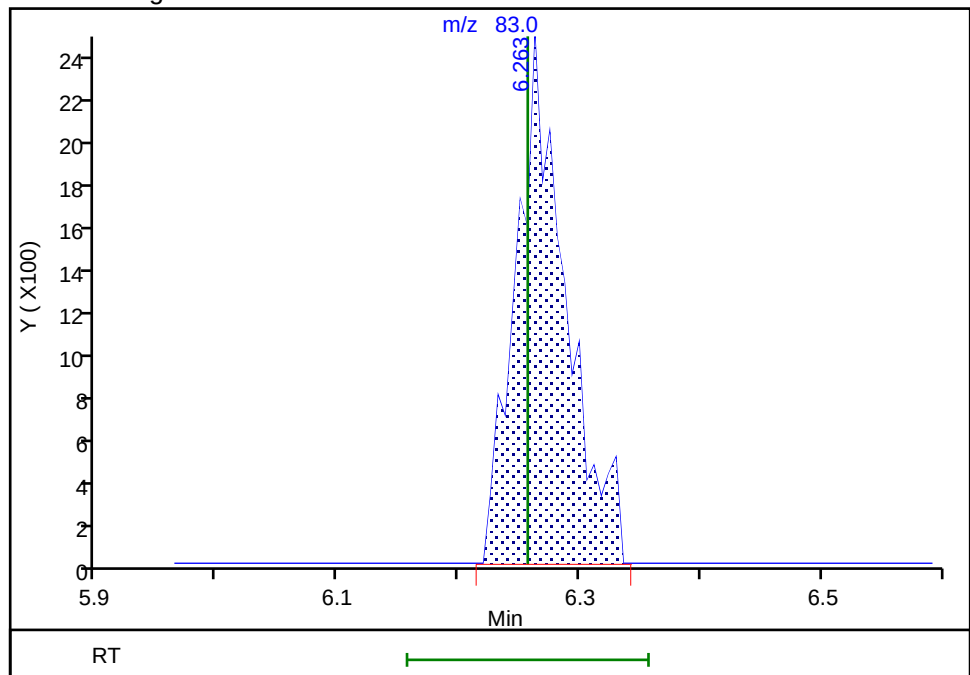
RT: 6.26
Area: 6820
Amount: 0.085228
Amount Units: ug/l

Processing Integration Results



RT: 6.26
Area: 7159
Amount: 0.089465
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 09:26:59 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

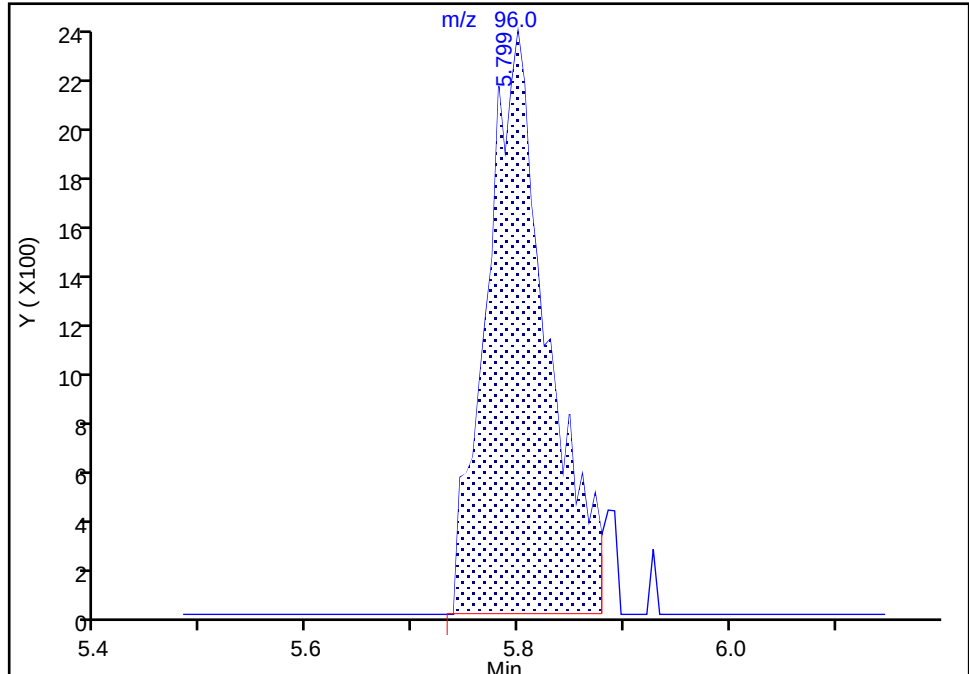
Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X40.D
Injection Date: 08-May-2025 00:45:30 Instrument ID: 19094
Lims ID: 410-219242-A-3 Lab Sample ID: 410-219242-3
Client ID: HD-COD-SW-8-0/1-0
Operator ID: gaw91131 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

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

Signal: 1

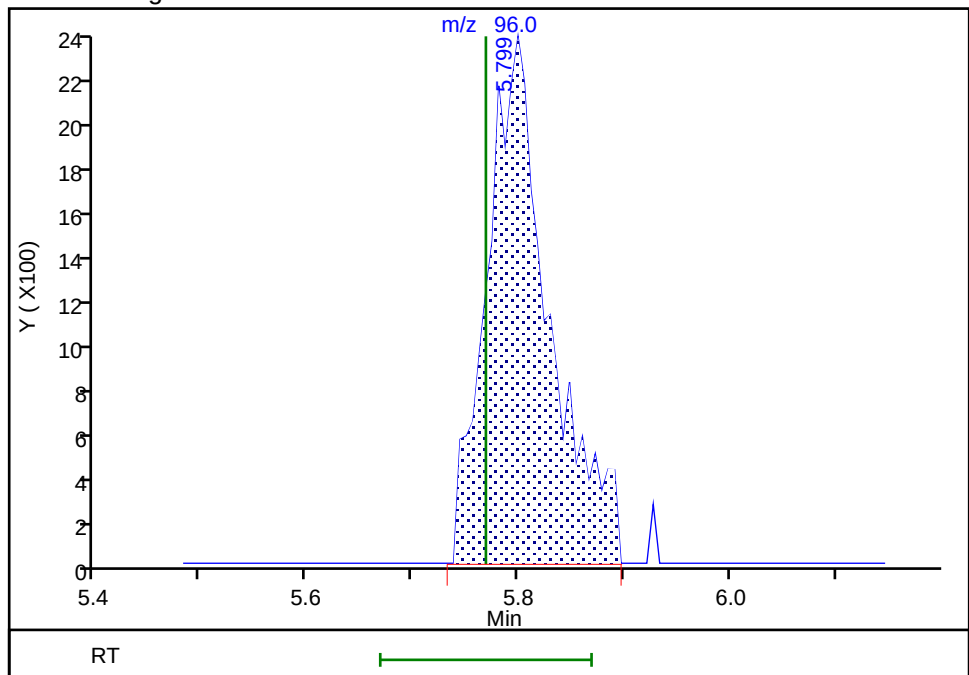
RT: 5.80
Area: 9331
Amount: 0.182150
Amount Units: ug/l

Processing Integration Results



RT: 5.80
Area: 9637
Amount: 0.188123
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 09:26:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

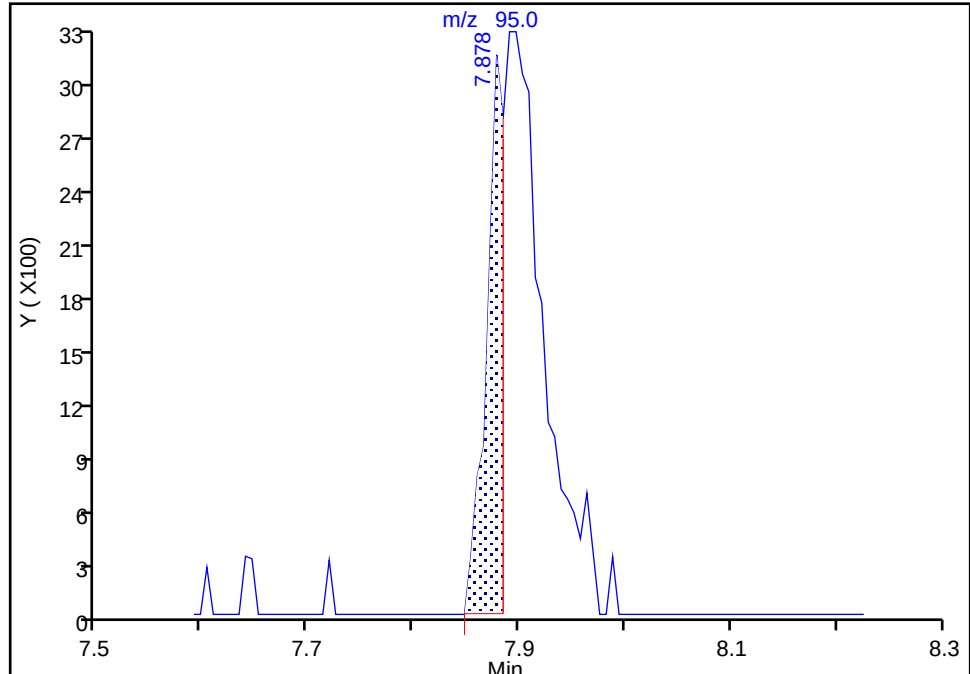
Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X40.D
Injection Date: 08-May-2025 00:45:30 Instrument ID: 19094
Lims ID: 410-219242-A-3 Lab Sample ID: 410-219242-3
Client ID: HD-COD-SW-8-0/1-0
Operator ID: gaw91131 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

68 Trichloroethene, CAS: 79-01-6

Signal: 1

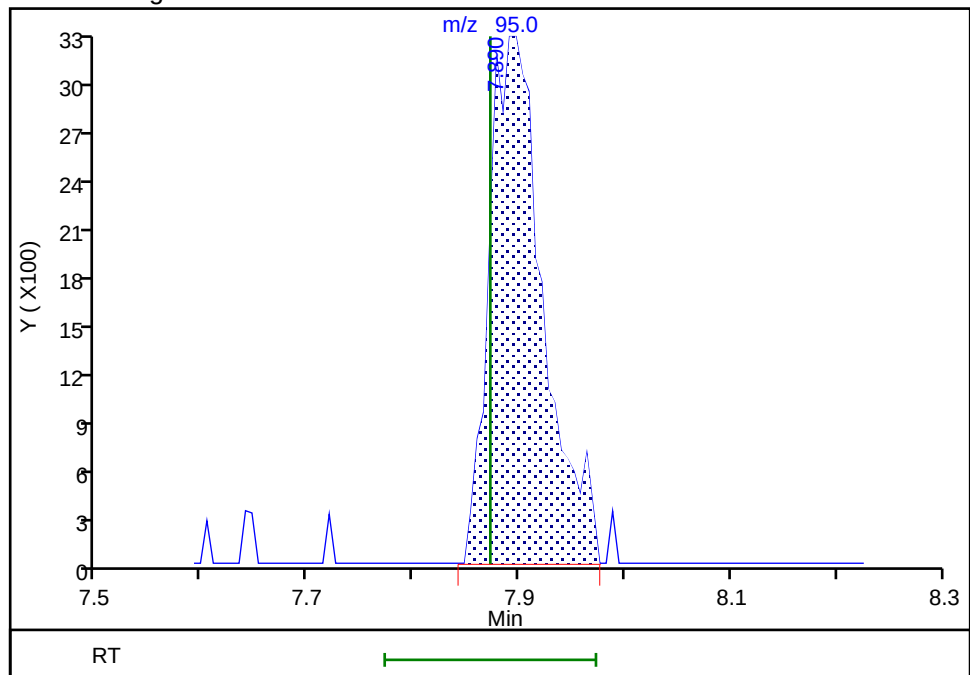
RT: 7.88
Area: 3655
Amount: 0.071974
Amount Units: ug/l

Processing Integration Results



RT: 7.89
Area: 11493
Amount: 0.226319
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 09:27:14 -04:00:00 (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.: 410-219242-1

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0

Lab Sample ID: 410-219242-4

Matrix: Water

Lab File ID: HY07X41.D

Analysis Method: 8260D

Date Collected: 04/24/2025 12:10

Sample wt/vol: 25 (mL)

Date Analyzed: 05/08/2025 01:06

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 640992

Units: ug/L

Preparation Batch No.:

Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND	^c cn	5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.16	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.24	J	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-9-0/1-0 Lab Sample ID: 410-219242-4

Matrix: Water Lab File ID: HY07X41.D

Analysis Method: 8260D Date Collected: 04/24/2025 12:10

Sample wt/vol: 25 (mL) Date Analyzed: 05/08/2025 01:06

Soil Aliquot Vol: _____ Dilution Factor: 1

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

Purge Volume: 25.0 (mL) Heated Purge: (Y/N) N pH: _____

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

Analysis Batch No.: 640992 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	0.12	J	0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.11	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		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\19094\20250507-146489.b\HY07X41.D
 Lims ID: 410-219242-A-4
 Client ID: HD-COD-SW-9-0/1-0
 Sample Type: Client
 Inject. Date: 08-May-2025 01:06:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0146489-012
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 09:29:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.026	2.032	-0.006	1	2416	0.0322	
6 Vinyl chloride	62		2.142				ND	
9 Bromomethane	94		2.422				ND	
10 Chloroethane	64		2.507				ND	
17 1,1-Dichloroethene	96		3.282				ND	
19 Acetone	43		3.282				ND	
23 Carbon disulfide	76	3.562	3.568	-0.006	99	7935	0.0666	M
27 Methylene Chloride	84		3.885				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.897	3.928	-0.031	93	46189	50.0	
32 Methyl tert-butyl ether	73		4.263				ND	
33 trans-1,2-Dichloroethene	96		4.275				ND	
36 1,1-Dichloroethane	63		4.928				ND	7
41 2-Butanone (MEK)	43		5.732				ND	
42 cis-1,2-Dichloroethene	96	5.787	5.769	0.018	4	3378	0.0681	
48 Chlorobromomethane	128		6.104				ND	
50 Chloroform	83	6.263	6.257	0.006	94	12083	0.1560	
\$ 52 Dibromofluoromethane (Surr)	113	6.476	6.476	0.000	94	360507	10.4	
53 1,1,1-Trichloroethane	97		6.494				ND	7
56 Carbon tetrachloride	117		6.714				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.946	6.940	0.006	46	64829	10.5	
59 Benzene	78		6.970				ND	7
60 1,2-Dichloroethane	62		7.043				ND	
* 64 Fluorobenzene (IS)	96	7.385	7.385	0.000	98	1601185	10.0	
68 Trichloroethene	95	7.903	7.872	0.031	93	5209	0.1060	M
70 1,2-Dichloropropane	63		8.208				ND	
76 Dichlorobromomethane	83		8.561				ND	7
80 cis-1,3-Dichloropropene	75		9.134				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.317				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.457	9.457	0.000	94	1587199	10.1	
84 Toluene	92	9.543	9.537	0.006	98	14303	0.1159	
85 trans-1,3-Dichloropropene	75		9.817				ND	
106 1,1,2-Trichloroethane	97		10.030				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.122	10.116	0.006	97	13845	0.2425	
109 2-Hexanone	43		10.250				ND	
111 Chlorodibromomethane	129		10.414				ND	
112 Ethylene Dibromide	107		10.530				ND	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	87	1162603	10.0	
115 Chlorobenzene	112		11.000				ND	
116 1,1,1,2-Tetrachloroethane	131		11.085				ND	
117 Ethylbenzene	91		11.091				ND	7
119 m-Xylene & p-Xylene	106		11.207				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.542				ND	
121 Styrene	104		11.561				ND	
122 Bromoform	173		11.719				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.000	11.993	0.007	91	554189	9.63	
127 1,1,2,2-Tetrachloroethane	83		12.097				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.883	12.883	0.000	95	602356	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-May-2025 10:21:24

Chrom Revision: 2.3 18-Apr-2025 15:35:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X41.D

Injection Date: 08-May-2025 01:06:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-219242-A-4

Lab Sample ID: 410-219242-4

Worklist Smp#: 12

Client ID: HD-COD-SW-9-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

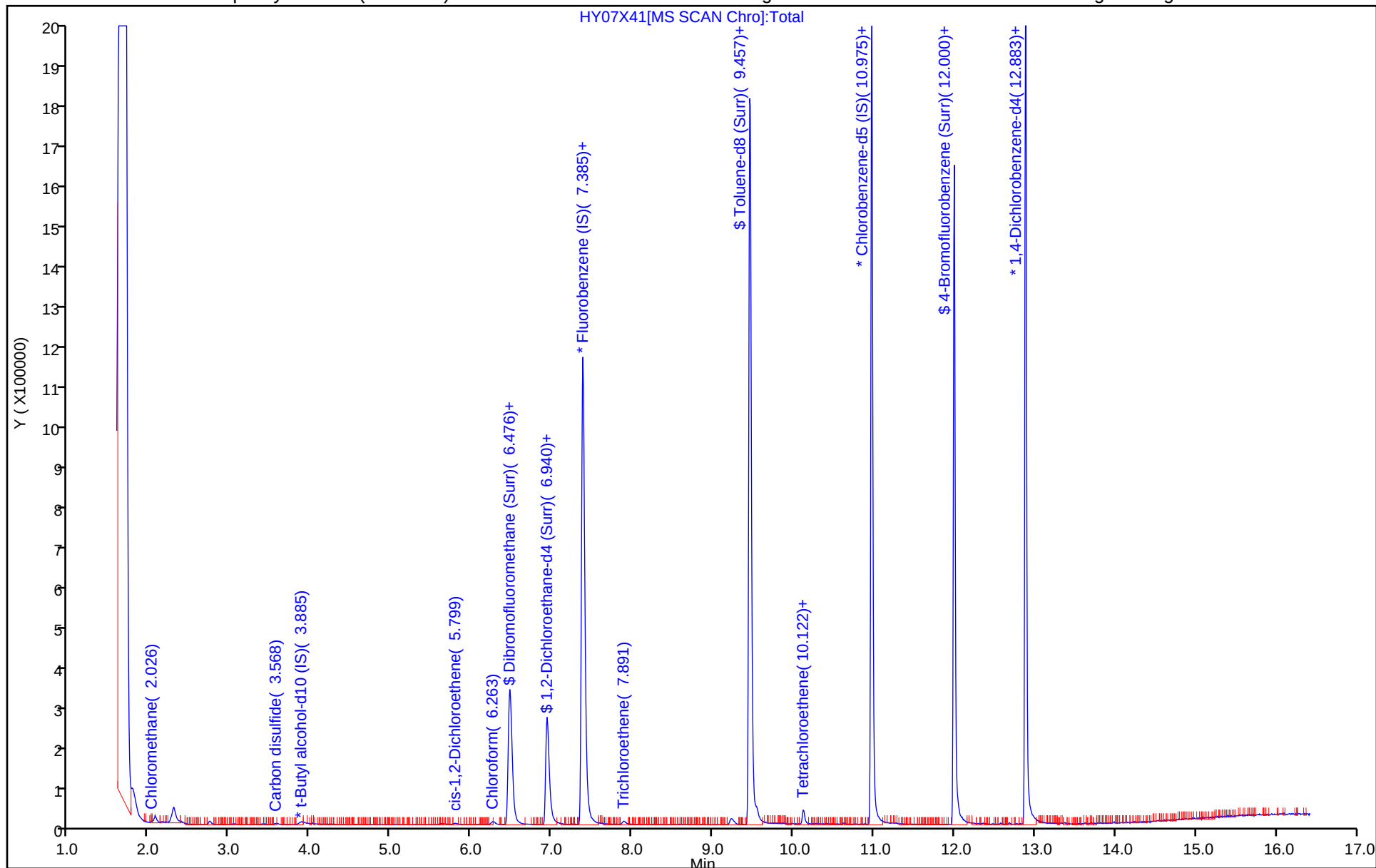
ALS Bottle#: 11

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X41.D
Lims ID: 410-219242-A-4
Client ID: HD-COD-SW-9-0/1-0
Sample Type: Client
Inject. Date: 08-May-2025 01:06:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0146489-012
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 09:29:18

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.4	103.67
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.28
\$ 83 Toluene-d8 (Surr)	10.0	10.1	100.91
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.63	96.26

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X41.D

Injection Date: 08-May-2025 01:06:30

Instrument ID: 19094

Lims ID: 410-219242-A-4

Lab Sample ID: 410-219242-4

Client ID: HD-COD-SW-9-0/1-0

Operator ID: gaw91131

ALS Bottle#: 11

Worklist Smp#: 12

Purge Vol: 25.000 mL

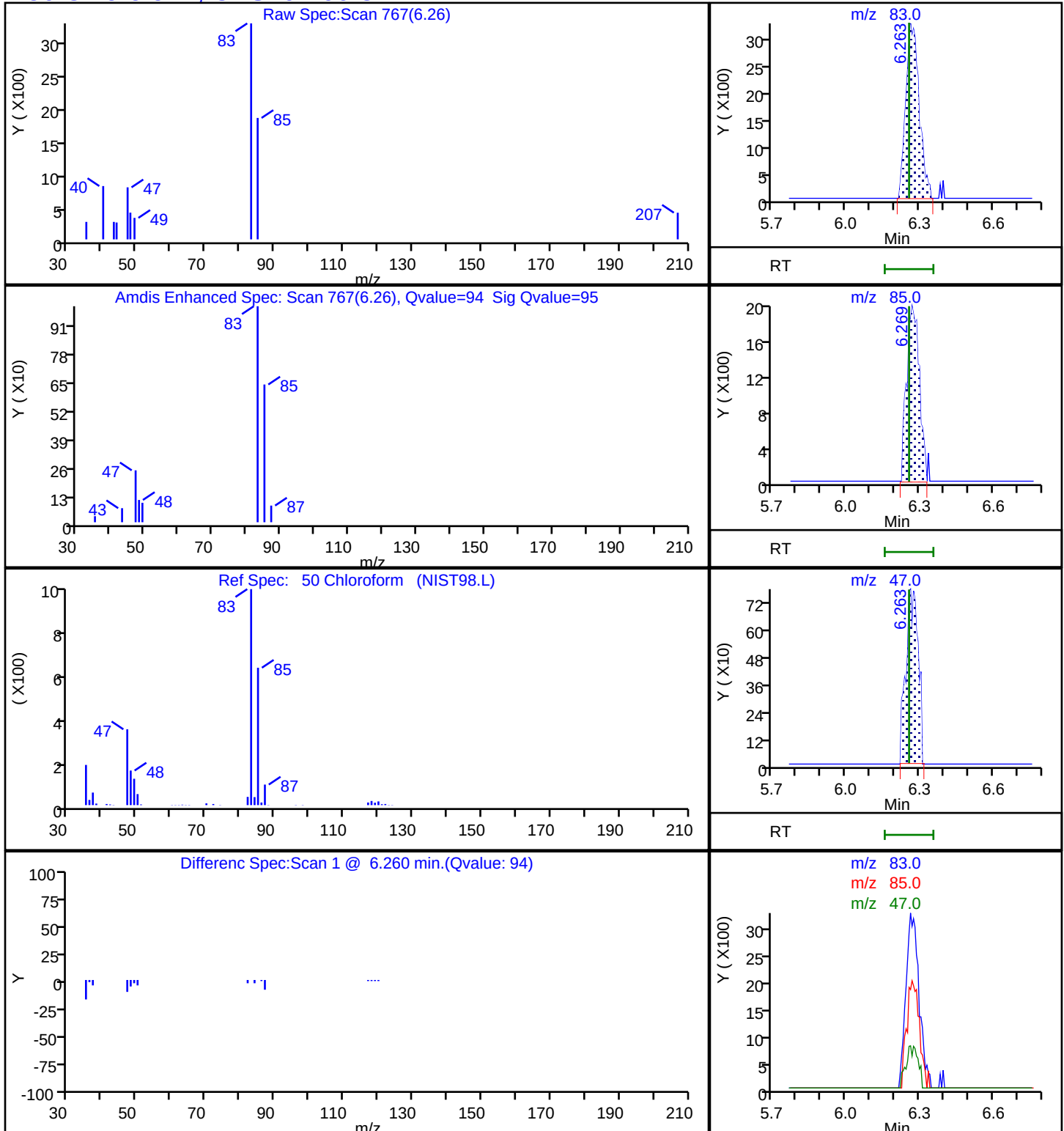
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X41.D

Injection Date: 08-May-2025 01:06:30

Instrument ID: 19094

Lims ID: 410-219242-A-4

Lab Sample ID: 410-219242-4

Client ID: HD-COD-SW-9-0/1-0

Operator ID: gaw91131

ALS Bottle#: 11

Worklist Smp#: 12

Purge Vol: 25.000 mL

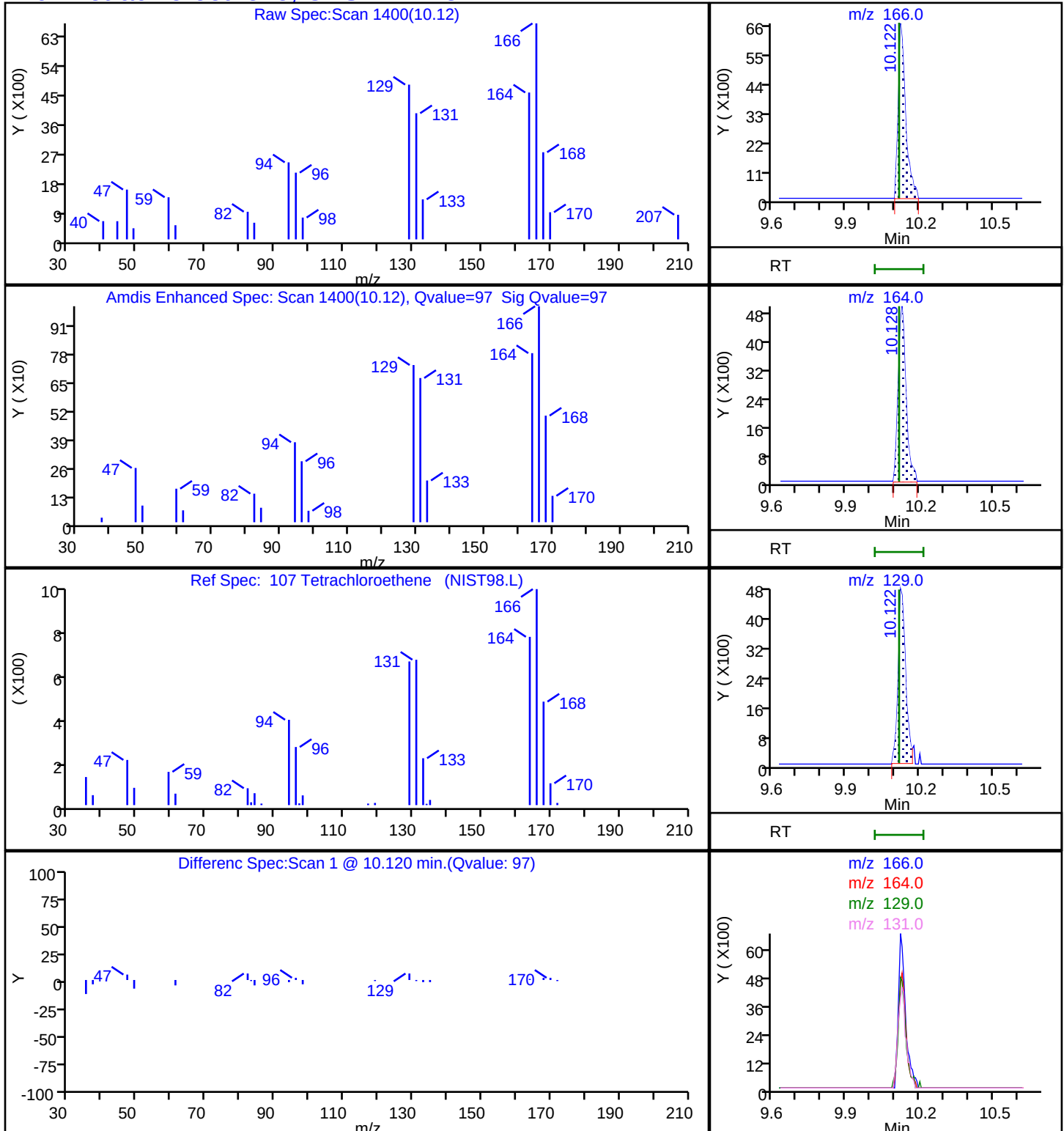
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

107 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X41.D

Injection Date: 08-May-2025 01:06:30

Instrument ID: 19094

Lims ID: 410-219242-A-4

Lab Sample ID: 410-219242-4

Client ID: HD-COD-SW-9-0/1-0

Operator ID: gaw91131

ALS Bottle#: 11

Worklist Smp#: 12

Purge Vol: 25.000 mL

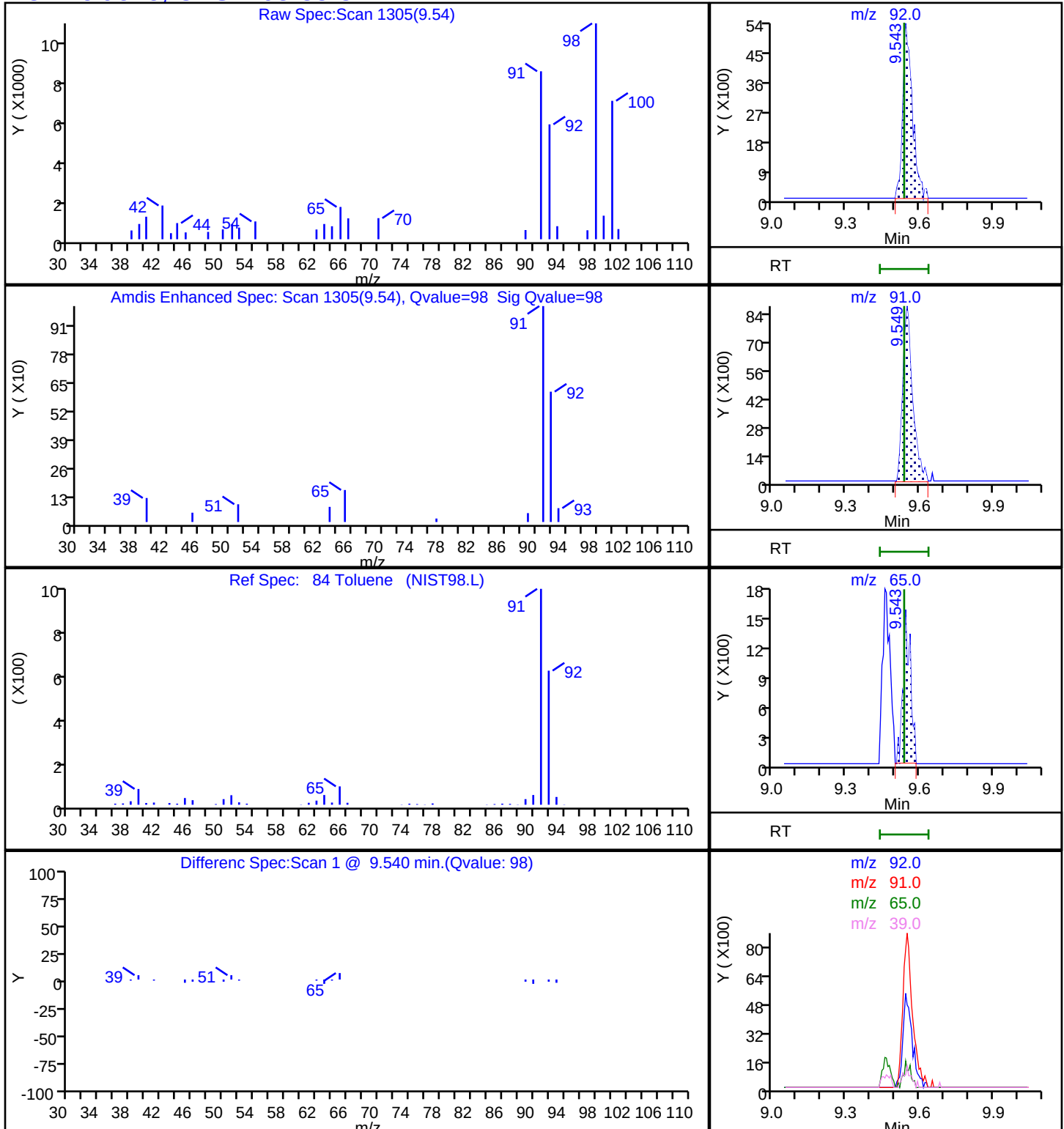
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

84 Toluene, CAS: 108-88-3

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X41.D

Injection Date: 08-May-2025 01:06:30

Instrument ID: 19094

Lims ID: 410-219242-A-4

Lab Sample ID: 410-219242-4

Client ID: HD-COD-SW-9-0/1-0

Operator ID: gaw91131

ALS Bottle#: 11

Worklist Smp#: 12

Purge Vol: 25.000 mL

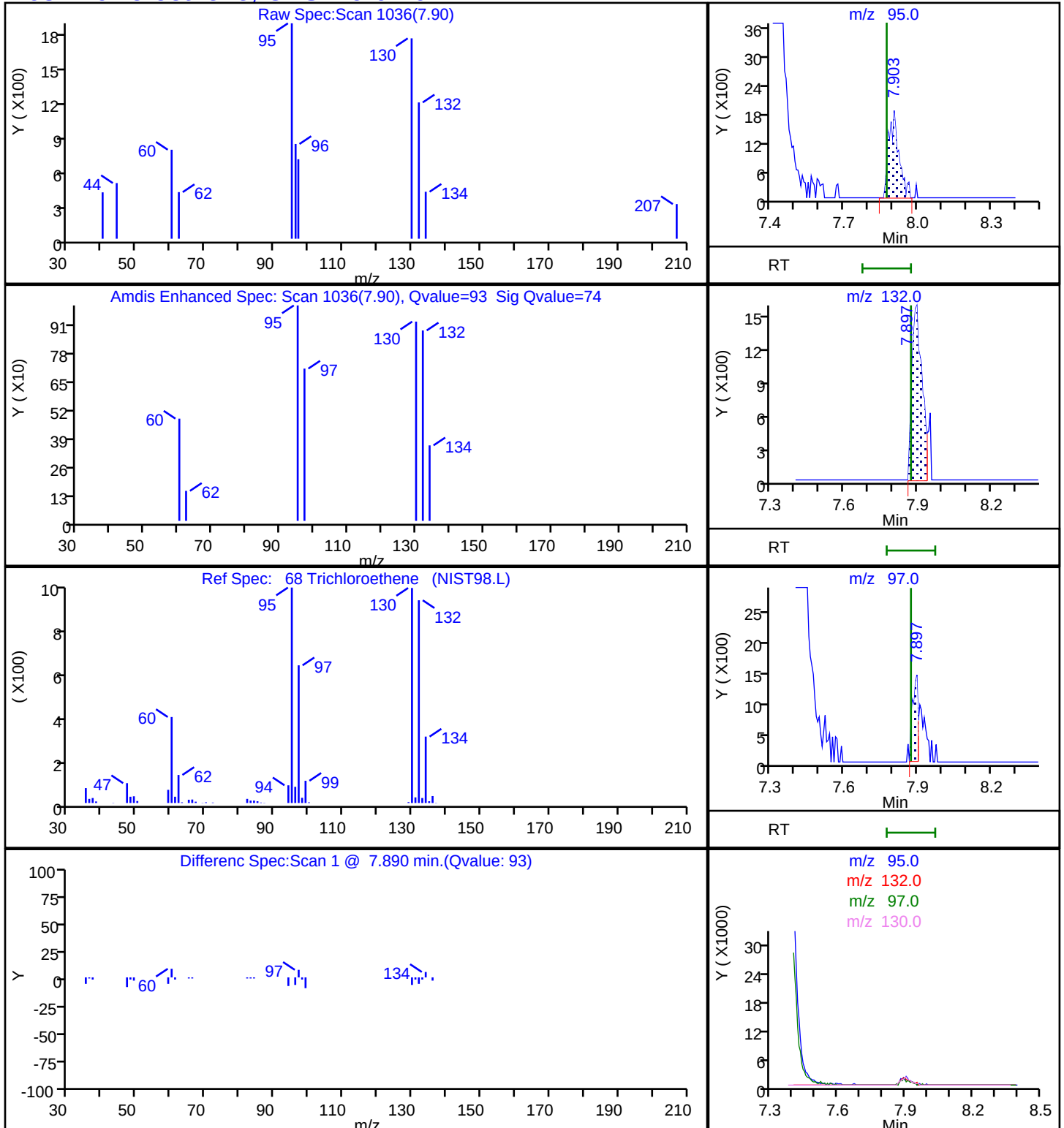
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

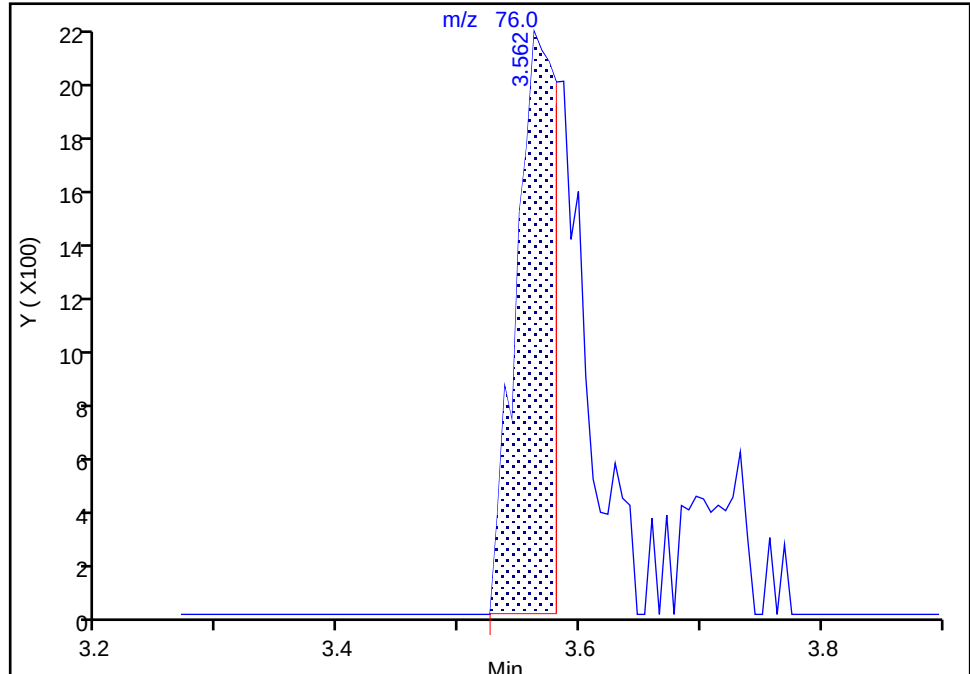
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Injection Date: 08-May-2025 01:06:30 Instrument ID: 19094
Lims ID: 410-219242-A-4 Lab Sample ID: 410-219242-4
Client ID: HD-COD-SW-9-0/1-0
Operator ID: gaw91131 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Carbon disulfide, CAS: 75-15-0

Signal: 1

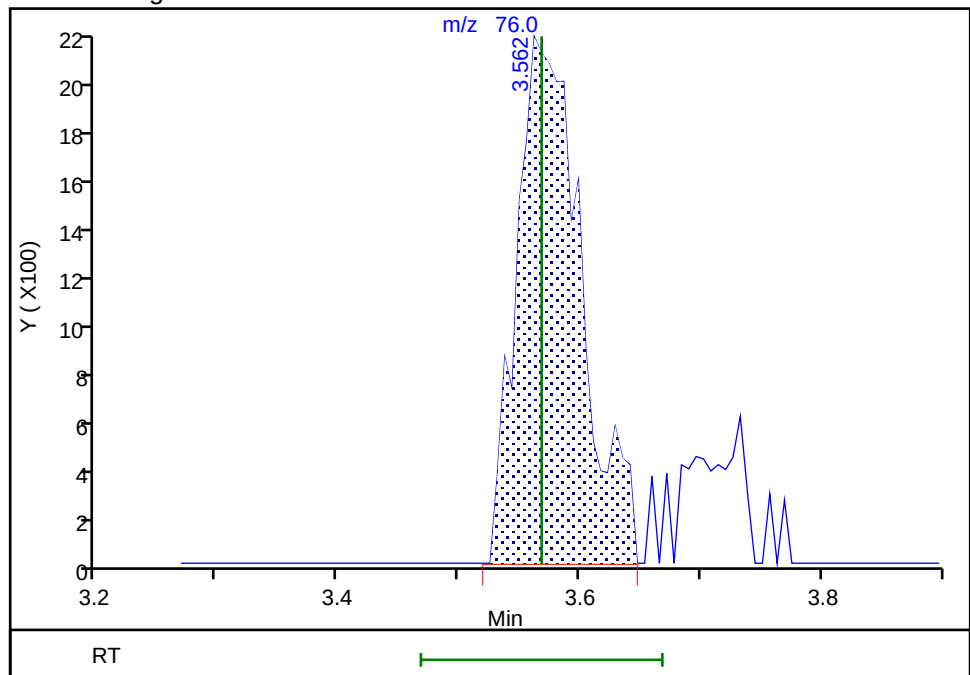
RT: 3.56
Area: 4866
Amount: 0.040870
Amount Units: ug/l

Processing Integration Results



RT: 3.56
Area: 7935
Amount: 0.066647
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 09:28:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

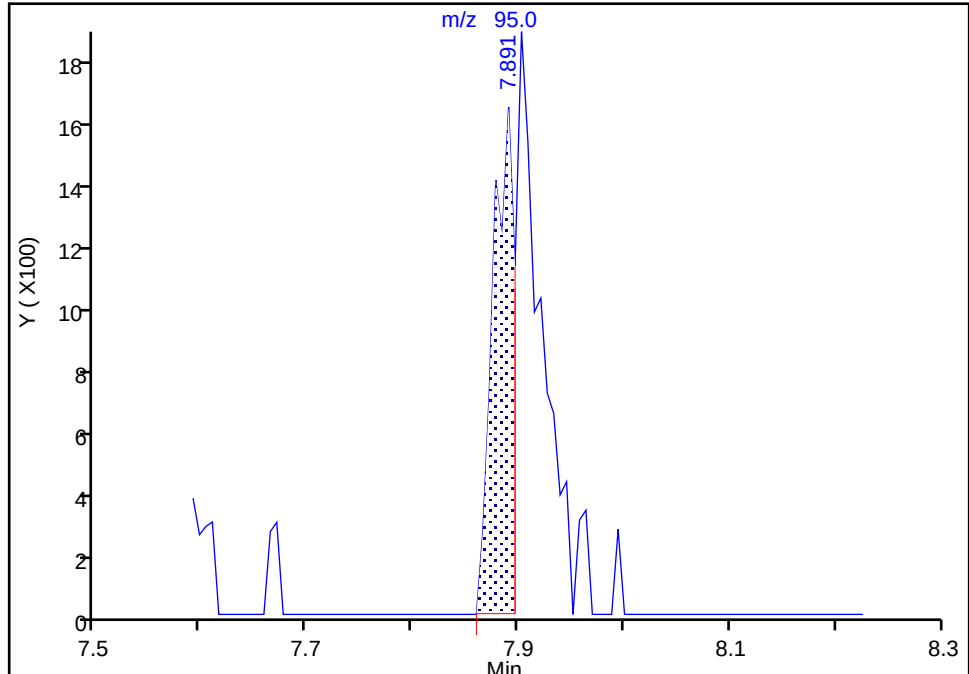
Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X41.D
Injection Date: 08-May-2025 01:06:30 Instrument ID: 19094
Lims ID: 410-219242-A-4 Lab Sample ID: 410-219242-4
Client ID: HD-COD-SW-9-0/1-0
Operator ID: gaw91131 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

68 Trichloroethene, CAS: 79-01-6

Signal: 1

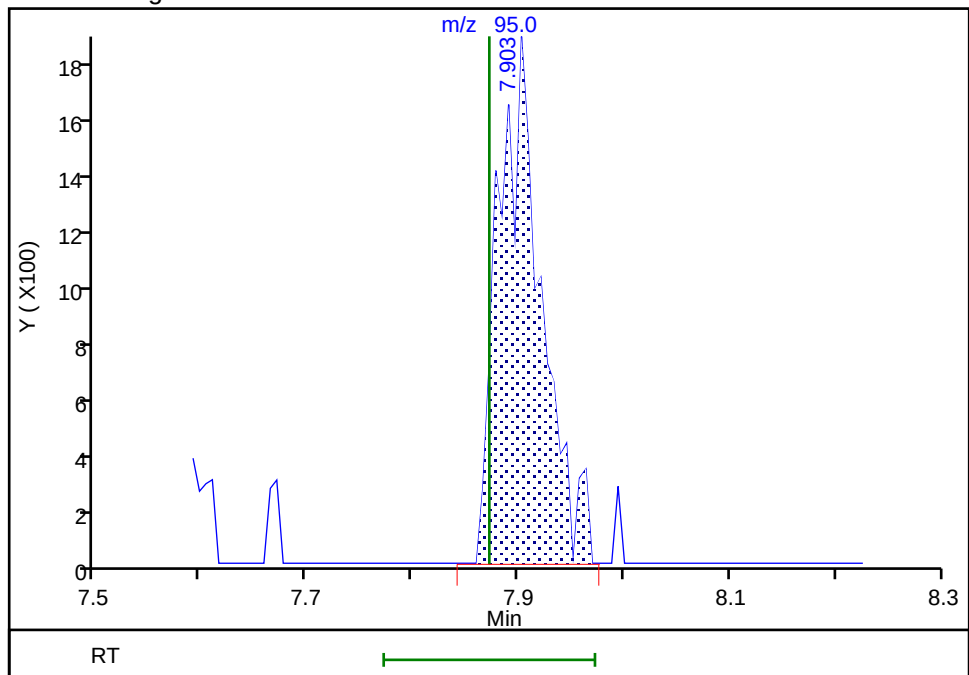
RT: 7.89
Area: 2277
Amount: 0.046320
Amount Units: ug/l

Processing Integration Results



RT: 7.90
Area: 5209
Amount: 0.105964
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 09:28:55 -04:00:00 (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.: 410-219242-1

SDG No.:

Client Sample ID: HD-COD-SW-13-0/1-0

Lab Sample ID: 410-219242-5

Matrix: Water

Lab File ID: HY07X42.D

Analysis Method: 8260D

Date Collected: 04/24/2025 09:03

Sample wt/vol: 25 (mL)

Date Analyzed: 05/08/2025 01:27

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 640992

Units: ug/L

Preparation Batch No.:

Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	0.10	J	0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND	^c cn	5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	0.10	J	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.092	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.22	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	1.7		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-13-0/1-0 Lab Sample ID: 410-219242-5

Matrix: Water Lab File ID: HY07X42.D

Analysis Method: 8260D Date Collected: 04/24/2025 09:03

Sample wt/vol: 25 (mL) Date Analyzed: 05/08/2025 01:27

Soil Aliquot Vol: _____ Dilution Factor: 1

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

Purge Volume: 25.0 (mL) Heated Purge: (Y/N) N pH: _____

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

Analysis Batch No.: 640992 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.24	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		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\19094\20250507-146489.b\HY07X42.D
 Lims ID: 410-219242-A-5
 Client ID: HD-COD-SW-13-0/1-0
 Sample Type: Client
 Inject. Date: 08-May-2025 01:27:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0146489-013
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 09:30:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.026	2.032	-0.006	94	4272	0.0546	
6 Vinyl chloride	62		2.142				ND	7
9 Bromomethane	94		2.422				ND	
10 Chloroethane	64		2.507				ND	
17 1,1-Dichloroethene	96		3.282				ND	
19 Acetone	43		3.282				ND	
23 Carbon disulfide	76	3.574	3.568	0.006	99	12879	0.1038	
27 Methylene Chloride	84		3.885				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.891	3.928	-0.037	94	50585	50.0	
32 Methyl tert-butyl ether	73		4.263				ND	
33 trans-1,2-Dichloroethene	96		4.275				ND	
36 1,1-Dichloroethane	63		4.928				ND	7
41 2-Butanone (MEK)	43		5.732				ND	
42 cis-1,2-Dichloroethene	96	5.793	5.769	0.024	79	11539	0.2233	
48 Chlorobromomethane	128		6.104				ND	
50 Chloroform	83	6.269	6.257	0.012	89	7420	0.0919	
\$ 52 Dibromofluoromethane (Surr)	113	6.476	6.476	0.000	93	360500	9.95	
53 1,1,1-Trichloroethane	97	6.501	6.494	0.007	88	7619	0.1042	
56 Carbon tetrachloride	117		6.714				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.939	6.940	-0.001	47	66340	10.3	
59 Benzene	78		6.970				ND	7
60 1,2-Dichloroethane	62		7.043				ND	
* 64 Fluorobenzene (IS)	96	7.385	7.385	0.000	98	1668844	10.0	
68 Trichloroethene	95	7.884	7.872	0.012	96	12074	0.2357	
70 1,2-Dichloropropane	63		8.208				ND	
76 Dichlorobromomethane	83		8.561				ND	
80 cis-1,3-Dichloropropene	75		9.134				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.317				ND	
\$ 83 Toluene-d8 (Surr)	98	9.463	9.457	0.006	94	1632446	10.1	
84 Toluene	92	9.549	9.537	0.012	95	9917	0.0785	
85 trans-1,3-Dichloropropene	75		9.817				ND	
106 1,1,2-Trichloroethane	97		10.030				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.122	10.116	0.006	98	97629	1.67	
109 2-Hexanone	43		10.250				ND	
111 Chlorodibromomethane	129		10.414				ND	
112 Ethylene Dibromide	107		10.530				ND	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	87	1189970	10.0	
115 Chlorobenzene	112		11.000				ND	
116 1,1,1,2-Tetrachloroethane	131		11.085				ND	
117 Ethylbenzene	91		11.091				ND	7
119 m-Xylene & p-Xylene	106		11.207				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.542				ND	7
121 Styrene	104		11.561				ND	
122 Bromoform	173		11.719				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	11.999	11.993	0.006	91	571272	9.69	
127 1,1,2,2-Tetrachloroethane	83		12.097				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.890	12.883	0.007	95	613174	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-May-2025 10:21:27

Chrom Revision: 2.3 18-Apr-2025 15:35:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X42.D

Injection Date: 08-May-2025 01:27:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-219242-A-5

Lab Sample ID: 410-219242-5

Worklist Smp#: 13

Client ID: HD-COD-SW-13-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

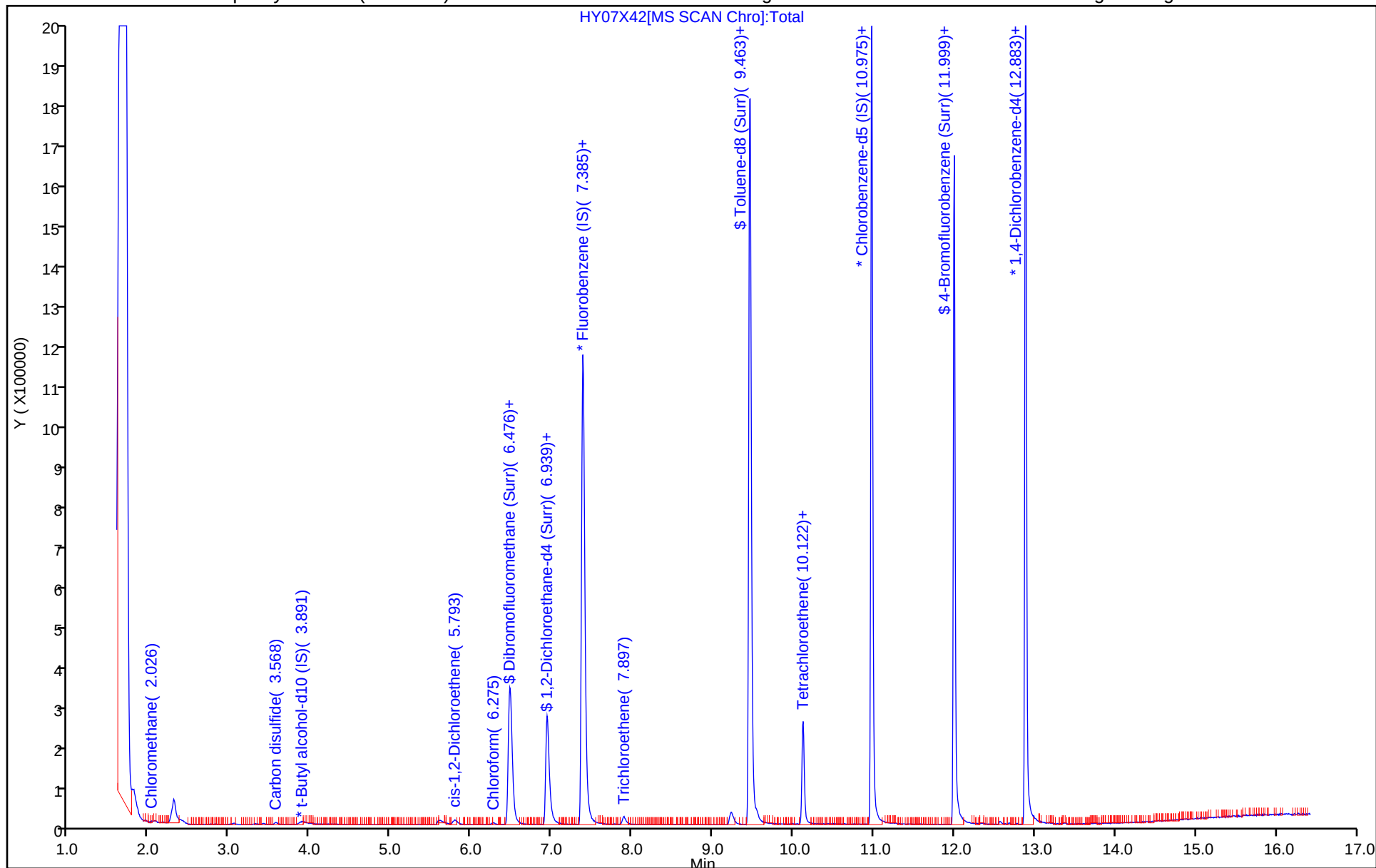
ALS Bottle#: 12

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X42.D
 Lims ID: 410-219242-A-5
 Client ID: HD-COD-SW-13-0/1-0
 Sample Type: Client
 Inject. Date: 08-May-2025 01:27:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0146489-013
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 09:30:06

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.95	99.46
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.37
\$ 83 Toluene-d8 (Surr)	10.0	10.1	101.40
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.69	96.94

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X42.D

Injection Date: 08-May-2025 01:27:30

Instrument ID: 19094

Lims ID: 410-219242-A-5

Lab Sample ID: 410-219242-5

Client ID: HD-COD-SW-13-0/1-0

Operator ID: gaw91131

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 25.000 mL

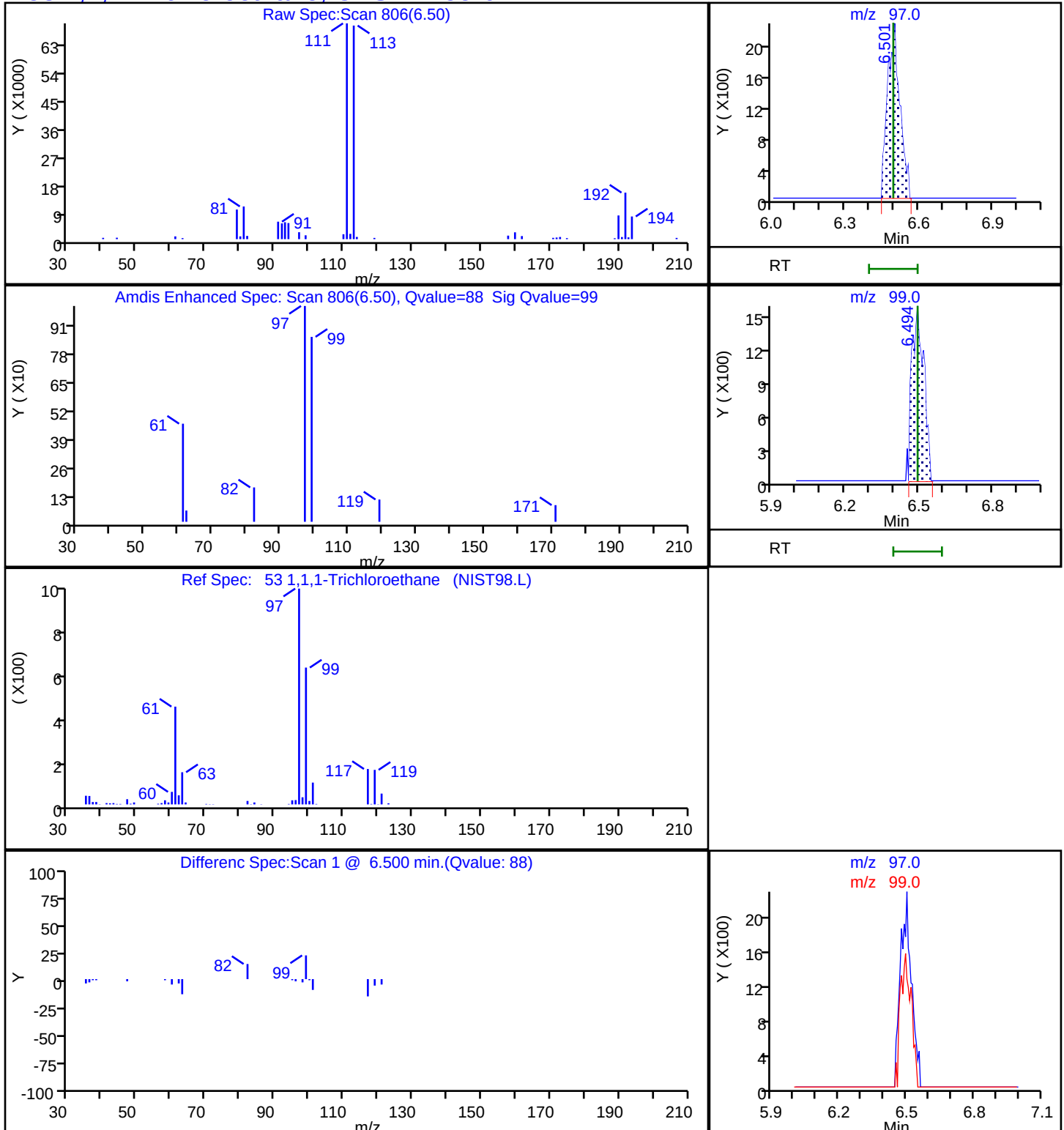
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

53 1,1,1-Trichloroethane, CAS: 71-55-6

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X42.D

Injection Date: 08-May-2025 01:27:30

Instrument ID: 19094

Lims ID: 410-219242-A-5

Lab Sample ID: 410-219242-5

Client ID: HD-COD-SW-13-0/1-0

Operator ID: gaw91131

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 25.000 mL

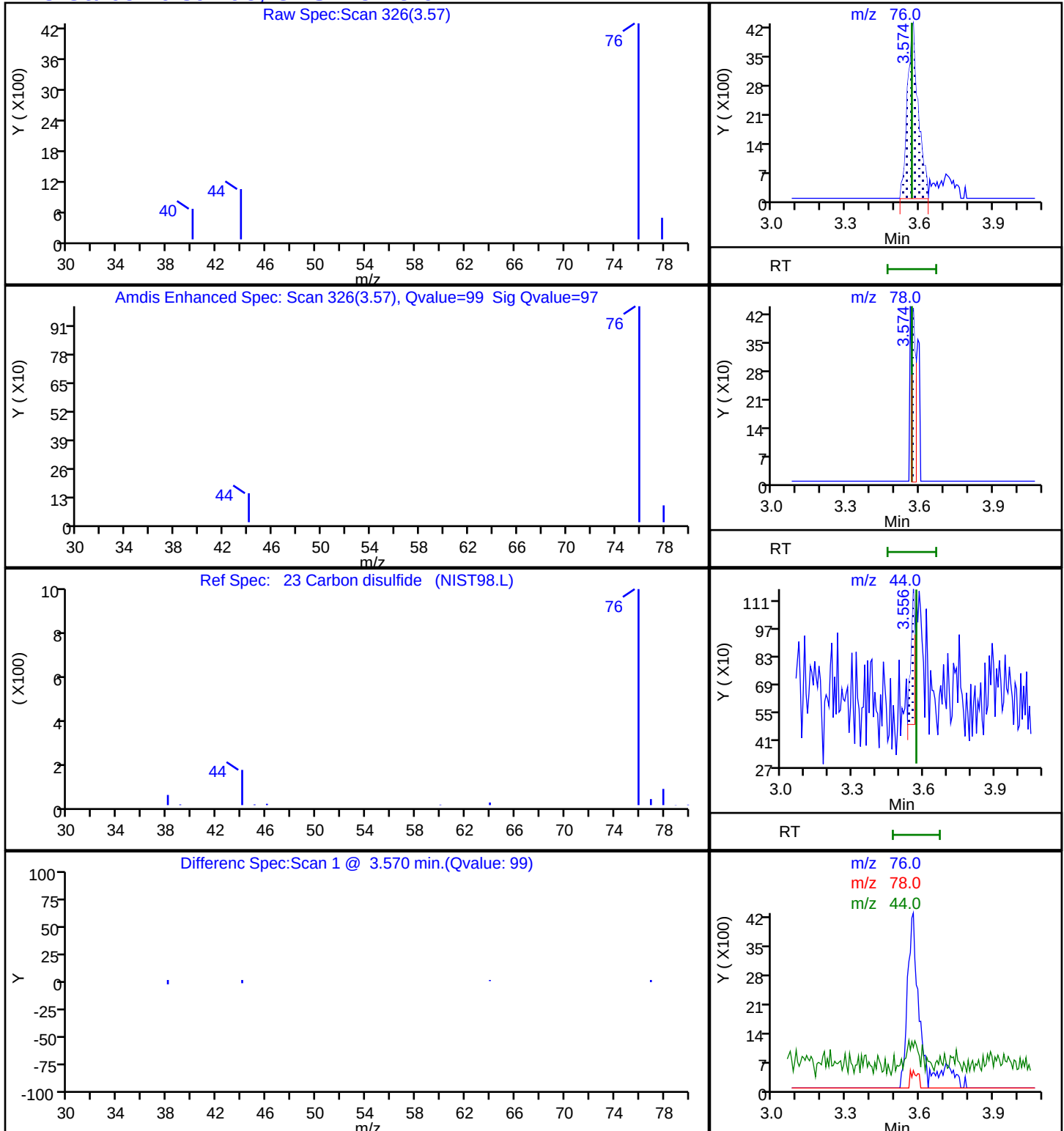
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

23 Carbon disulfide, CAS: 75-15-0

Chrom Revision: 2.3 18-Apr-2025 15:35:42

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X42.D

Instrument ID: 19094

Lab Sample ID: 410-219242-5

Operator ID: qaw91131

ALS Bottle#: 12

Worklist Smp#: 13

Dil. Factor: 1.0000

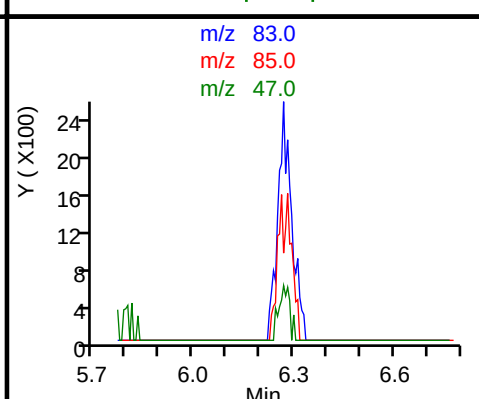
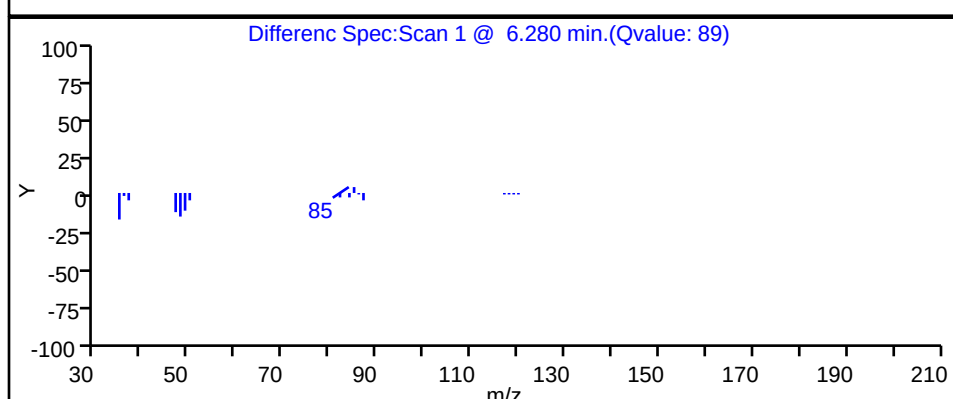
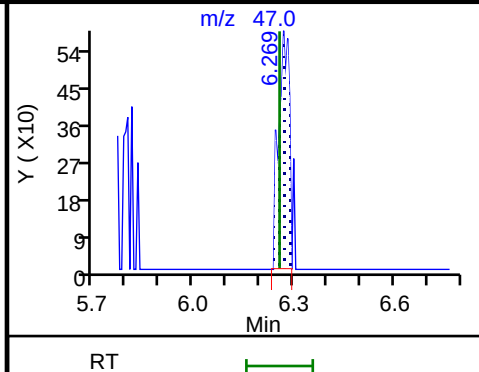
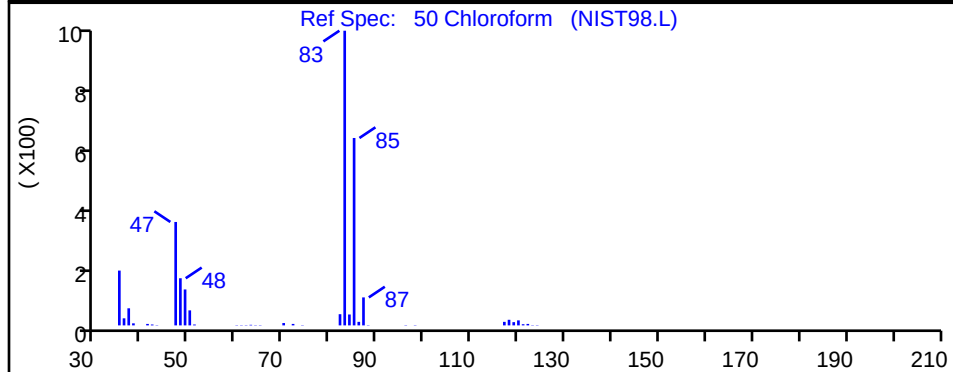
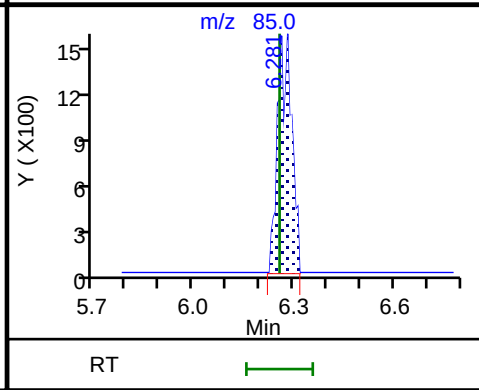
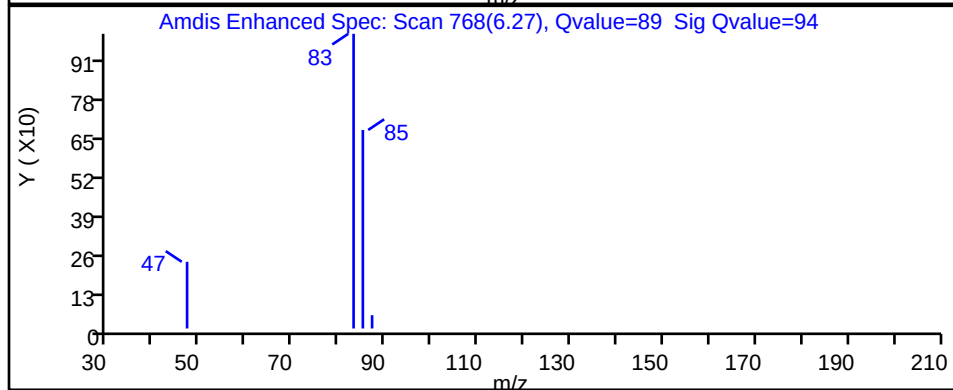
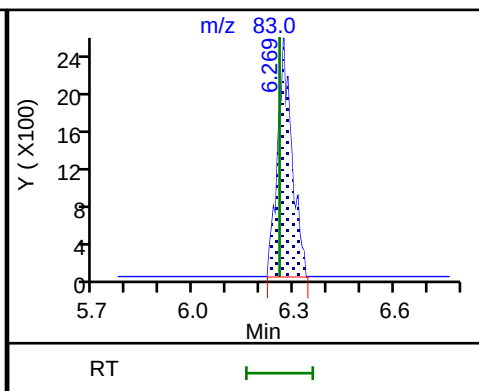
Limit Group: MSV - 8260C D

MS Quad

Raw Spec: Scan 768(6.27)

Mass spectrum plot showing relative intensity Y (X100) versus mass-to-charge ratio m/z. The x-axis ranges from 30 to 210, and the y-axis ranges from 0 to 24. The base peak is at m/z 83. Other significant peaks are at m/z 47, 85, and 207.

m/z	Relative Intensity (Y X100)
47	~5
83	24
85	~10
207	~3



Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X42.D

Injection Date: 08-May-2025 01:27:30

Instrument ID: 19094

Lims ID: 410-219242-A-5

Lab Sample ID: 410-219242-5

Client ID: HD-COD-SW-13-0/1-0

Operator ID: gaw91131

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 25.000 mL

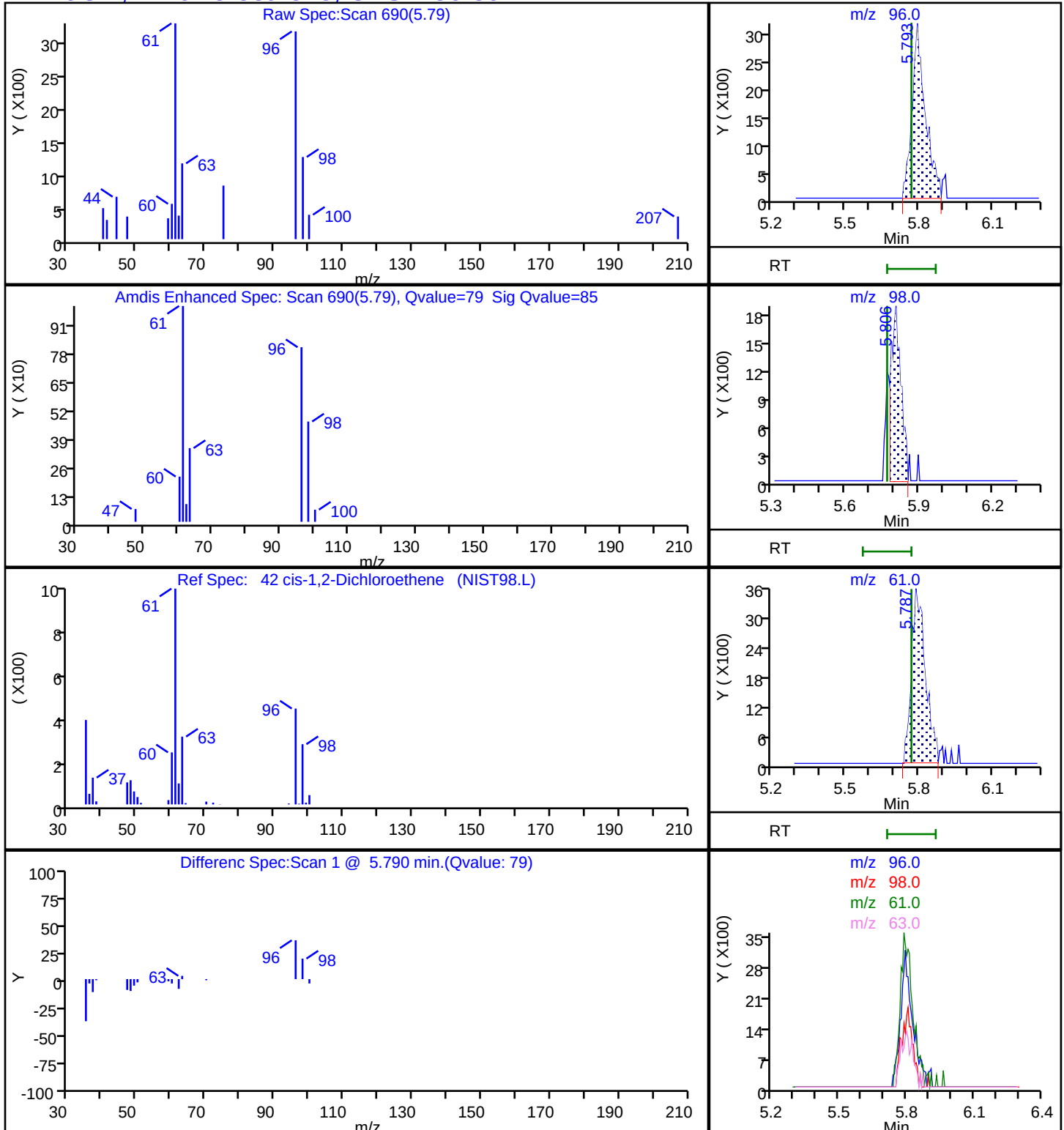
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X42.D

Injection Date: 08-May-2025 01:27:30

Instrument ID: 19094

Lims ID: 410-219242-A-5

Lab Sample ID: 410-219242-5

Client ID: HD-COD-SW-13-0/1-0

Operator ID: gaw91131

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 25.000 mL

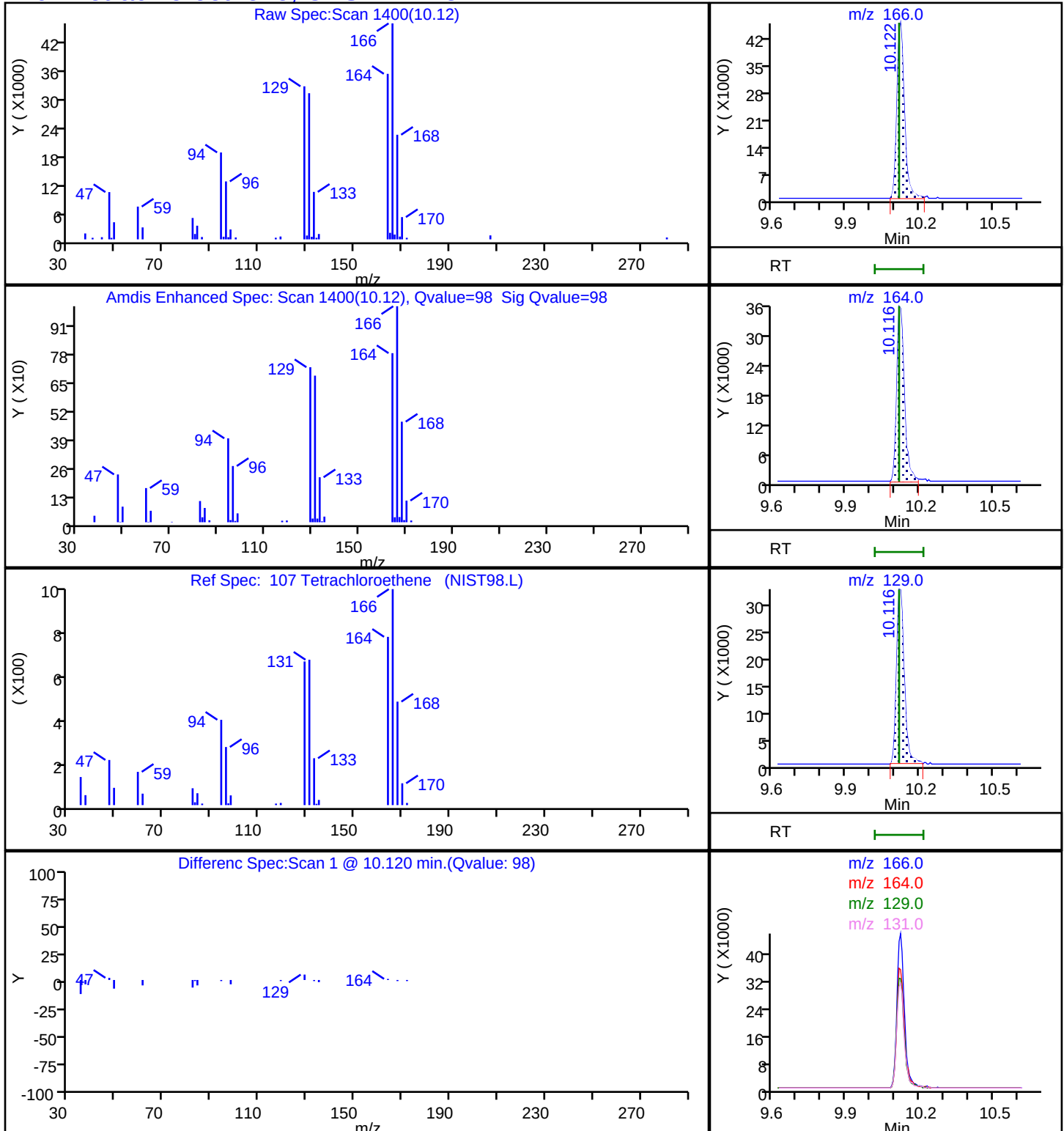
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

107 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X42.D

Injection Date: 08-May-2025 01:27:30

Instrument ID: 19094

Lims ID: 410-219242-A-5

Lab Sample ID: 410-219242-5

Client ID: HD-COD-SW-13-0/1-0

Operator ID: gaw91131

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 25.000 mL

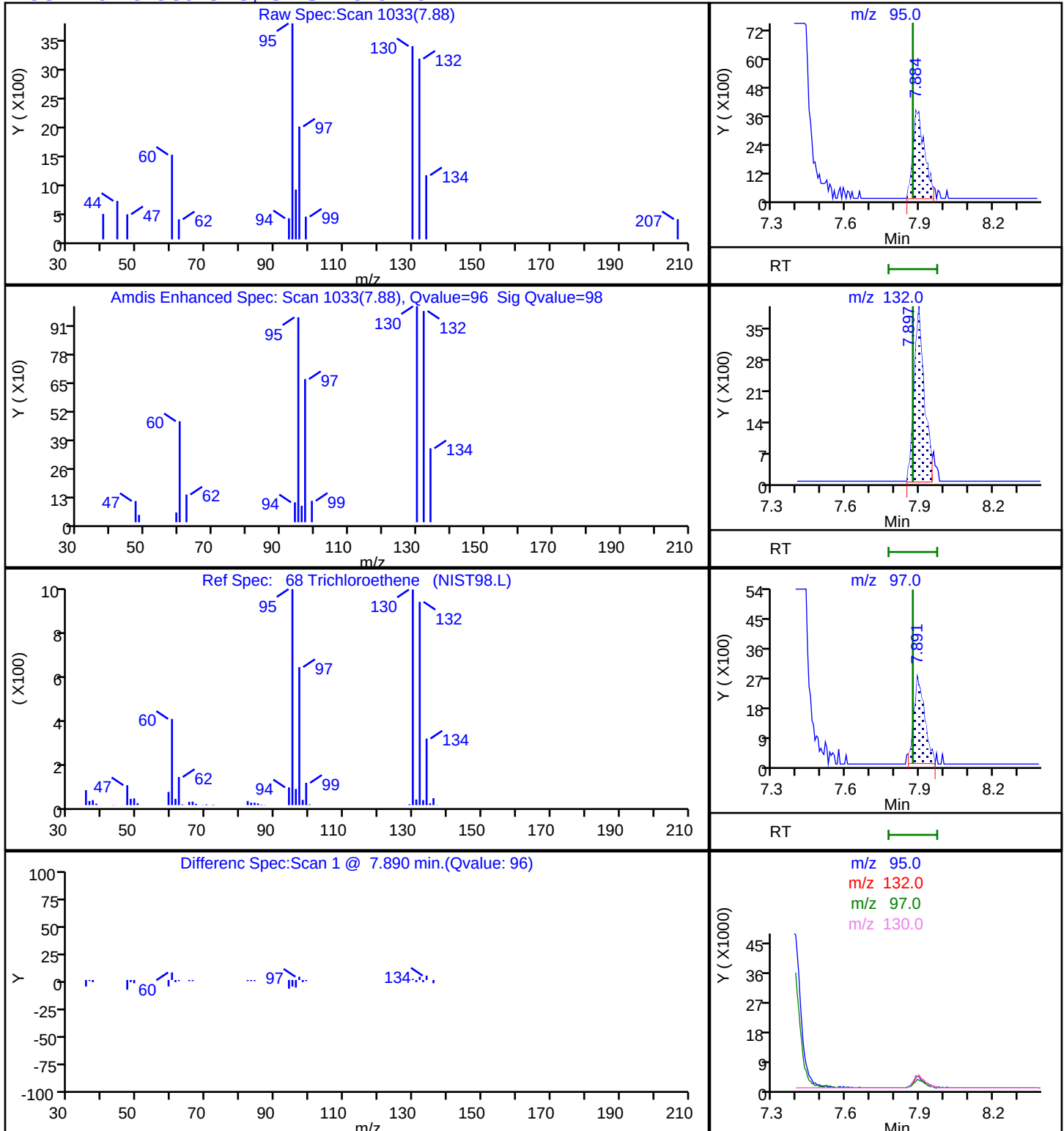
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

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.: 410-219242-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0

Lab Sample ID: 410-219242-6

Matrix: Water

Lab File ID: HY07X43.D

Analysis Method: 8260D

Date Collected: 04/24/2025 11:00

Sample wt/vol: 25 (mL)

Date Analyzed: 05/08/2025 01:47

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 640992

Units: ug/L

Preparation Batch No.:

Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	0.27	J	0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	0.16	J	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND	^c cn	5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.18	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.75		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	4.9		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	Job No.: 410-219242-1
SDG No.:	
Client Sample ID: HD-COD-SW-15-0/1-0	Lab Sample ID: 410-219242-6
Matrix: Water	Lab File ID: HY07X43.D
Analysis Method: 8260D	Date Collected: 04/24/2025 11:00
Sample wt/vol: 25 (mL)	Date Analyzed: 05/08/2025 01:47
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: R-624SilMS 30m ID: 0.25 (mm)
Purge Volume: 25.0 (mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 640992	Units: ug/L
Preparation Batch No.:	Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	1.2		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

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)	101		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\19094\20250507-146489.b\HY07X43.D
 Lims ID: 410-219242-A-6
 Client ID: HD-COD-SW-15-0/1-0
 Sample Type: Client
 Inject. Date: 08-May-2025 01:47:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0146489-014
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 09:31:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.800				ND	
2 Dichlorodifluoromethane	85		1.843				ND	
3 Chlorodifluoromethane	51		1.849				ND	7
4 Dimethyl ether	45		1.898				ND	
5 Chloromethane	50		2.032				ND	
7 Butadiene	39		2.129				ND	7
6 Vinyl chloride	62		2.142				ND	
8 2-Chloro-1,1,1-Trifluoroethane	118		2.184				ND	
9 Bromomethane	94		2.422				ND	
10 Chloroethane	64		2.507				ND	
11 Dichlorofluoromethane	67		2.715				ND	7
12 Trichlorofluoromethane	101		2.721				ND	
14 Ethyl ether	59		3.001				ND	
15 1,2-Dichloro-1,1,2-trifluoroetha	67		3.068				ND	
13 Ethanol	45		3.111				ND	
16 Acrolein	56		3.154				ND	
17 1,1-Dichloroethene	96	3.270	3.282	-0.012	96	6322	0.1615	
19 Acetone	43		3.282				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.324				ND	
T 18 Ethanol TIC	45		3.440				ND	7
21 Iodomethane	142		3.465				ND	
22 Ethyl bromide	108		3.489				ND	
23 Carbon disulfide	76		3.568				ND	
24 Methyl acetate	43		3.696				ND	
26 3-Chloro-1-propene	41		3.715				ND	
25 Acetonitrile	41		3.794				ND	
27 Methylene Chloride	84		3.885				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.879	3.928	-0.049	95	62666	50.0	
29 2-Methyl-2-propanol	59		4.032				ND	
T 30 Acetonitrile TIC	41	4.245	4.214	0.031	19	101	0.000598	7
31 Acrylonitrile	53		4.233				ND	
32 Methyl tert-butyl ether	73	4.263	4.263	0.000	1	2694	0.0296	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 trans-1,2-Dichloroethene	96		4.275				ND	
34 Hexane	57		4.696				ND	
35 Vinyl acetate	43		4.915				ND	
36 1,1-Dichloroethane	63	4.940	4.928	0.012	1	8626	0.0984	
37 Isopropyl ether	45		4.989				ND	
38 2-Chloro-1,3-butadiene	53		5.037				ND	
40 Tert-butyl ethyl ether	59		5.531				ND	
T 39 Vinyl acetate (TIC)	43		5.537				ND	
41 2-Butanone (MEK)	43		5.732				ND	
42 cis-1,2-Dichloroethene	96	5.781	5.769	0.012	80	39293	0.7512	
43 2,2-Dichloropropane	77		5.781				ND	
44 Propionitrile	54		5.818				ND	
45 Ethyl acetate	43		5.824				ND	
47 Methacrylonitrile	67		6.031				ND	
48 Chlorobromomethane	128		6.104				ND	
49 Tetrahydrofuran	71		6.123				ND	
S 46 1,2-Dichloroethene, Total	100				0		0.7512	
50 Chloroform	83	6.269	6.257	0.012	92	15004	0.1836	
\$ 52 Dibromofluoromethane (Surr)	113	6.470	6.476	-0.006	94	372297	10.1	
51 Methyl acrylate	55		6.482				ND	
53 1,1,1-Trichloroethane	97	6.488	6.494	-0.006	63	20000	0.2704	
54 Cyclohexane	56		6.598				ND	
55 1,1-Dichloropropene	75		6.708				ND	
56 Carbon tetrachloride	117		6.714				ND	7
57 Isobutyl alcohol	41		6.860				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.933	6.940	-0.007	46	66296	10.2	
59 Benzene	78		6.970				ND	
60 1,2-Dichloroethane	62		7.043				ND	
61 Isopropyl acetate	43		7.067				ND	
63 Tert-amyl methyl ether	73		7.171				ND	
62 1-Chlorobutane	56	7.366	7.250	0.116	2	2855	NC	
* 64 Fluorobenzene (IS)	96	7.378	7.385	-0.007	98	1689030	10.0	
65 n-Heptane	43		7.409				ND	
67 n-Butanol	56		7.775				ND	
66 t-Amyl alcohol	73		7.842				ND	
68 Trichloroethene	95	7.884	7.872	0.012	97	61254	1.18	
69 Methylcyclohexane	83		8.189				ND	
70 1,2-Dichloropropane	63		8.208				ND	
71 2-ethoxy-2-methyl butane	87		8.226				ND	
72 Methyl methacrylate	69		8.311				ND	
73 1,4-Dioxane	88		8.323				ND	
74 Dibromomethane	93		8.323				ND	
75 n-Propyl acetate	61		8.403				ND	
76 Dichlorobromomethane	83		8.561				ND	
77 2-Nitropropane	41		8.829				ND	
78 2-Chloroethyl vinyl ether	63		8.951				ND	
79 1-Bromo-2-chloroethane	63		8.964				ND	
80 cis-1,3-Dichloropropene	75		9.134				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.317				ND	
81 Chloroacetonitrile	75		9.427				ND	
\$ 83 Toluene-d8 (Surr)	98	9.457	9.457	0.000	94	1659674	10.2	
84 Toluene	92		9.537				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75		9.817				ND	
104 Ethyl methacrylate	69		9.890				ND	
T 93 Methyl acrylate TIC	55	9.457	10.000	-0.543	13	5810	0.0344	
T 100 Ethylene oxide TIC	44		10.000				ND	
T 87 2,3-Dibromo-1-propanol TIC	57		10.000				ND	
T 88 2-Bromo-3-chloropropene TIC	75	10.969	10.000	0.969	4	18774	0.1112	7
T 89 Epibromohydrin TIC	57	9.457	10.000	-0.543	12	998	0.005909	7
T 90 3-Chloro-1,2-propanediol TIC	44		10.000				ND	
T 91 Octamethylcyclotetrasiloxane TIC	78	9.969	10.000	-0.031	1	230	0.001362	7
T 94 Hexachloroethane TIC	117	10.116	10.000	0.116	11	2177	0.0129	7
T 92 Nitrobenzene TIC	77	9.463	10.000	-0.537	14	712	0.004215	7
T 97 2,3-Dibromopropene TIC	119	10.122	10.000	0.122	1	2169	0.0128	7
T 95 Chloroacetaldehyde TIC	50		10.000				ND	
T 103 2-Bromoethanol TIC	45	9.488	10.000	-0.512	1	117	0.000693	7
T 102 Epichlorohydrin TIC	57	9.457	10.000	-0.543	29	998	0.005909	7
T 101 Vinyl bromide TIC	106	11.993	10.000	1.993	12	1641	0.009716	7
T 86 Decamethylcyclopentasiloxane TIC	78	9.457	10.000	-0.543	1	840	0.004973	7
T 99 Isopropyl alcohol TIC	45		10.000				ND	
T 98 2-Chloroethanol TIC	44	10.274	10.000	0.274	1	490	0.002901	7
T 96 Monochloroacetic acid TIC	50	9.567	10.000	-0.433	1	129	0.000764	7
106 1,1,2-Trichloroethane	97		10.030				ND	7
S 105 1,3-Dichloropropene, Total	100		10.060				ND	7
107 Tetrachloroethene	166	10.116	10.116	0.000	98	287684	4.87	
108 1,3-Dichloropropane	76		10.195				ND	
109 2-Hexanone	43		10.250				ND	
110 n-Butyl acetate	43		10.390				ND	
111 Chlorodibromomethane	129		10.414				ND	7
112 Ethylene Dibromide	107		10.530				ND	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	87	1202504	10.0	
114 1-Chlorohexane	91		10.988				ND	7
115 Chlorobenzene	112		11.000				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.085				ND	
117 Ethylbenzene	91		11.091				ND	
119 m-Xylene & p-Xylene	106		11.207				ND	
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.542				ND	
121 Styrene	104		11.561				ND	
122 Bromoform	173		11.719				ND	
123 Isopropylbenzene	105		11.853				ND	
124 cis-1,4-Dichloro-2-butene	88		11.902				ND	U
125 Cyclohexanone	55		11.932				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.000	11.993	0.007	91	569959	9.57	
127 1,1,2,2-Tetrachloroethane	83		12.097				ND	
128 Bromobenzene	156		12.109				ND	
129 trans-1,4-Dichloro-2-butene	53		12.121				ND	
130 1,2,3-Trichloropropane	110		12.146				ND	
131 N-Propylbenzene	91		12.182				ND	
132 2-Chlorotoluene	126		12.256				ND	
133 1,3,5-Trimethylbenzene	105		12.323				ND	
134 4-Chlorotoluene	126		12.353				ND	
135 tert-Butylbenzene	134		12.566				ND	
136 Pentachloroethane	167		12.597				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
137 1,2,4-Trimethylbenzene	105		12.609				ND	
138 sec-Butylbenzene	105		12.731				ND	
139 1,3-Dichlorobenzene	146		12.829				ND	
140 4-Isopropyltoluene	119		12.841				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.883	12.883	0.000	95	613867	10.0	
142 1,4-Dichlorobenzene	146		12.902				ND	
143 1,2,3-Trimethylbenzene	120		12.914				ND	7
144 Benzyl chloride	126		12.981				ND	
145 p-Diethylbenzene	119		13.115				ND	
146 n-Butylbenzene	92		13.133				ND	
147 1,2-Dichlorobenzene	146		13.164				ND	
148 Hexachloroethane	201		13.682				ND	
149 1,2-Dibromo-3-Chloropropane	155		13.713				ND	
150 1,3,5-Trichlorobenzene	180		13.835				ND	
151 1,2,4-Trichlorobenzene	180		14.255				ND	
152 Hexachlorobutadiene	225		14.341				ND	
153 Naphthalene	128		14.438				ND	
154 1,2,3-Trichlorobenzene	180		14.578				ND	
155 tert-Butyl Formate	1		0.000				ND	
156 Dodecane	57		0.000				ND	
157 Pentane	43		0.000				ND	
158 1,1-Dichloroacetone	1		0.000				ND	
159 n-Decane	57		0.000				ND	
160 1-Bromo-3-Chloropropane	1		0.000				ND	
161 1-Chloropropane	1		0.000				ND	
162 Propene oxide	1		0.000				ND	
163 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
164 Methylal	1		0.000				ND	
165 2-Bromo-1-chloropropane	1		0.000				ND	
209 1,1-Dichloro-1-fluoroethane TICl			0.000				ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-May-2025 10:21:30

Chrom Revision: 2.3 18-Apr-2025 15:35:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X43.D

Injection Date: 08-May-2025 01:47:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-219242-A-6

Lab Sample ID: 410-219242-6

Worklist Smp#: 14

Client ID: HD-COD-SW-15-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

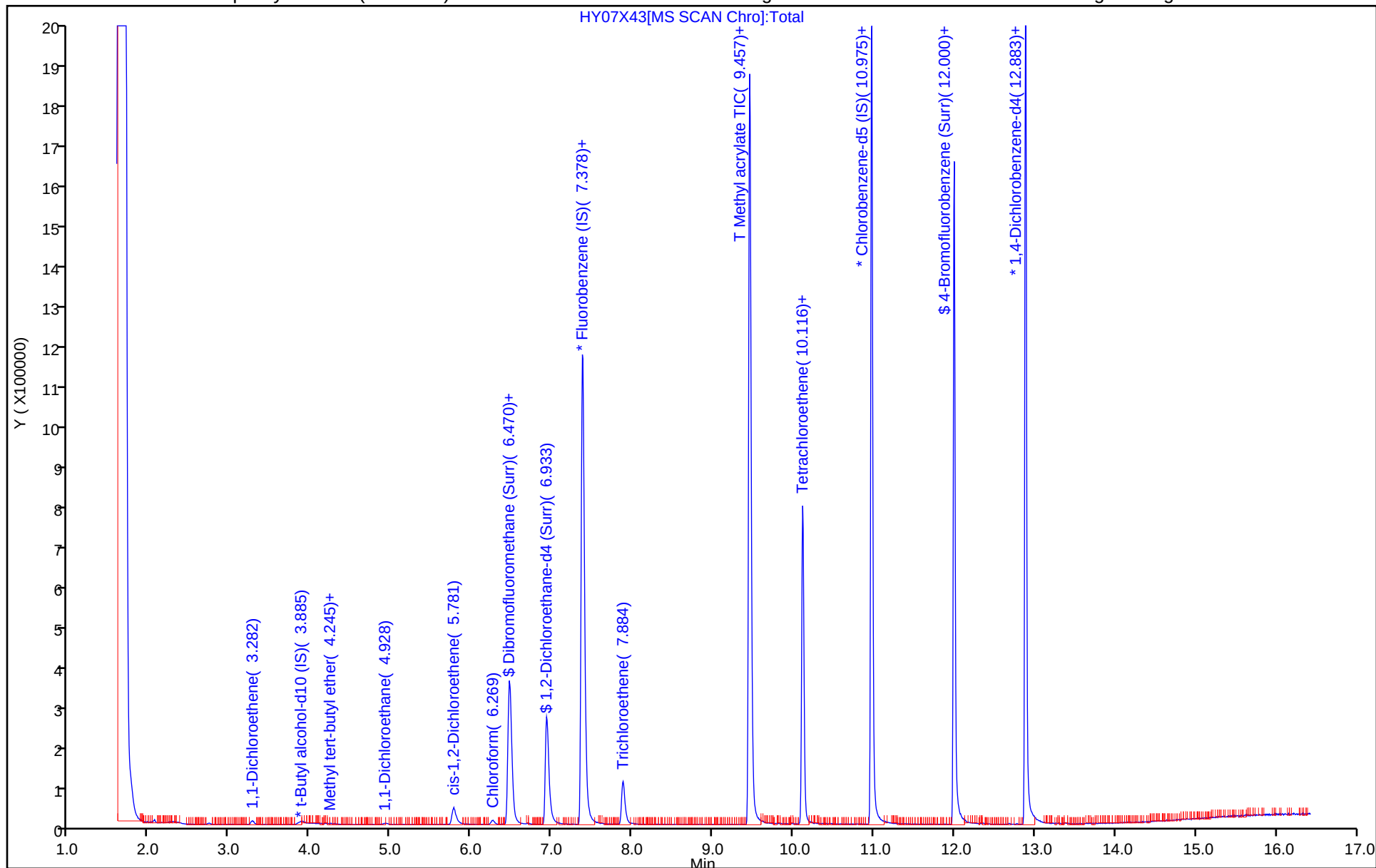
ALS Bottle#: 13

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X43.D
Lims ID: 410-219242-A-6
Client ID: HD-COD-SW-15-0/1-0
Sample Type: Client
Inject. Date: 08-May-2025 01:47:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0146489-014
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 09:31:48

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.1	101.49
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.07
\$ 83 Toluene-d8 (Surr)	10.0	10.2	102.01
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.57	95.71

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X43.D

Injection Date: 08-May-2025 01:47:30

Instrument ID: 19094

Lims ID: 410-219242-A-6

Lab Sample ID: 410-219242-6

Client ID: HD-COD-SW-15-0/1-0

Operator ID: gaw91131

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

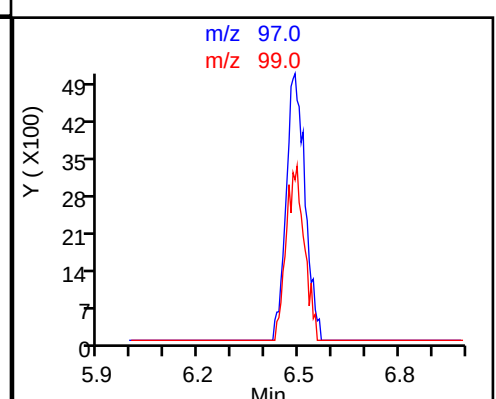
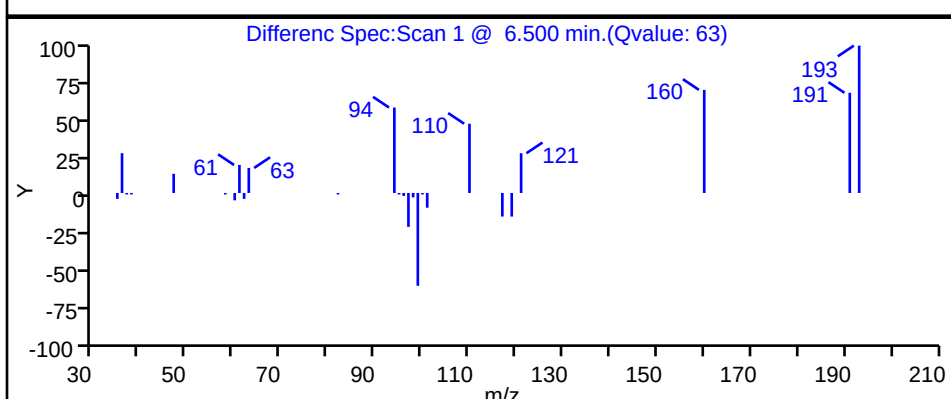
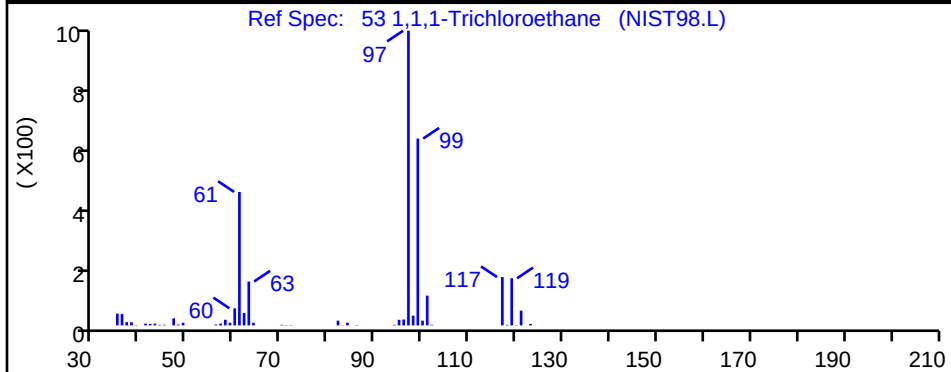
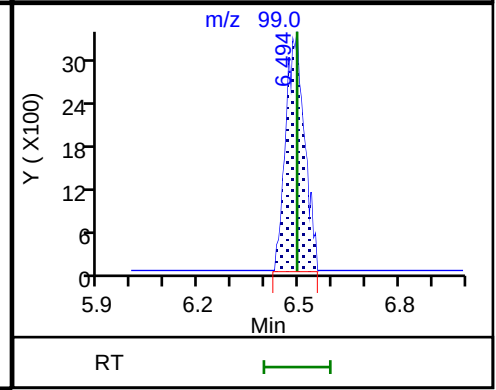
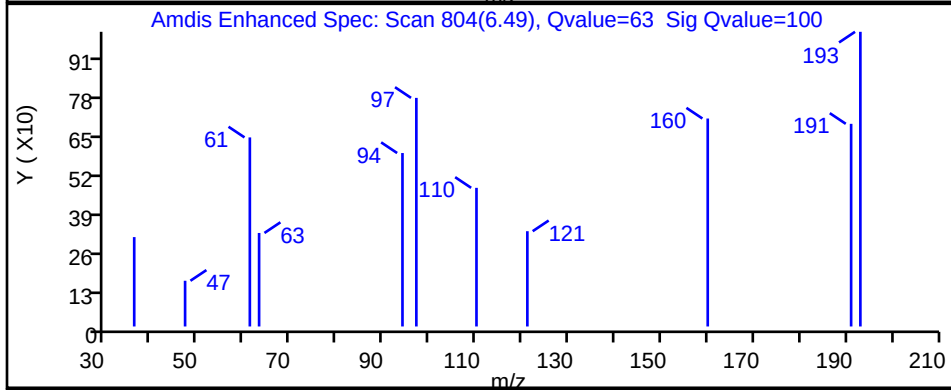
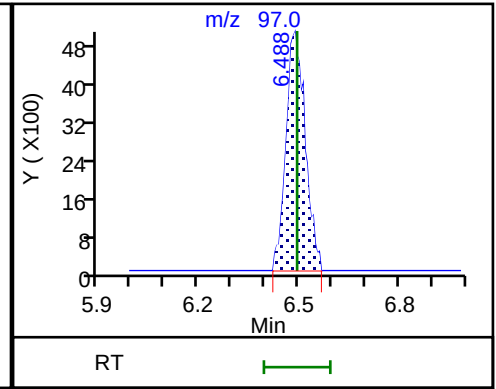
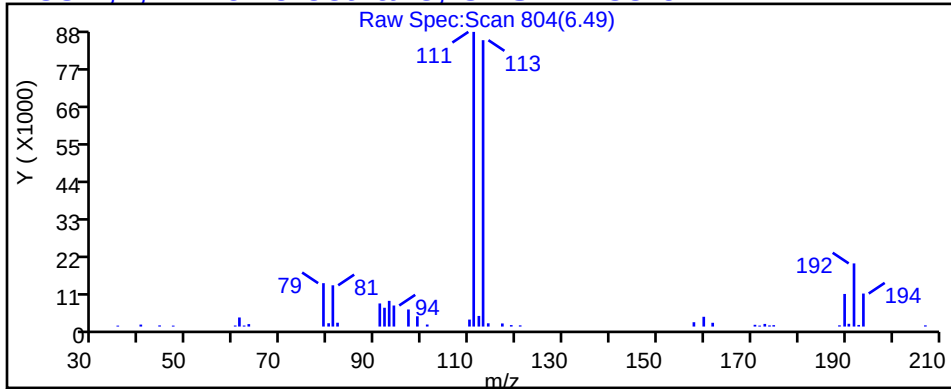
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

53 1,1,1-Trichloroethane, CAS: 71-55-6

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X43.D

Injection Date: 08-May-2025 01:47:30

Instrument ID: 19094

Lims ID: 410-219242-A-6

Lab Sample ID: 410-219242-6

Client ID: HD-COD-SW-15-0/1-0

Operator ID: gaw91131

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

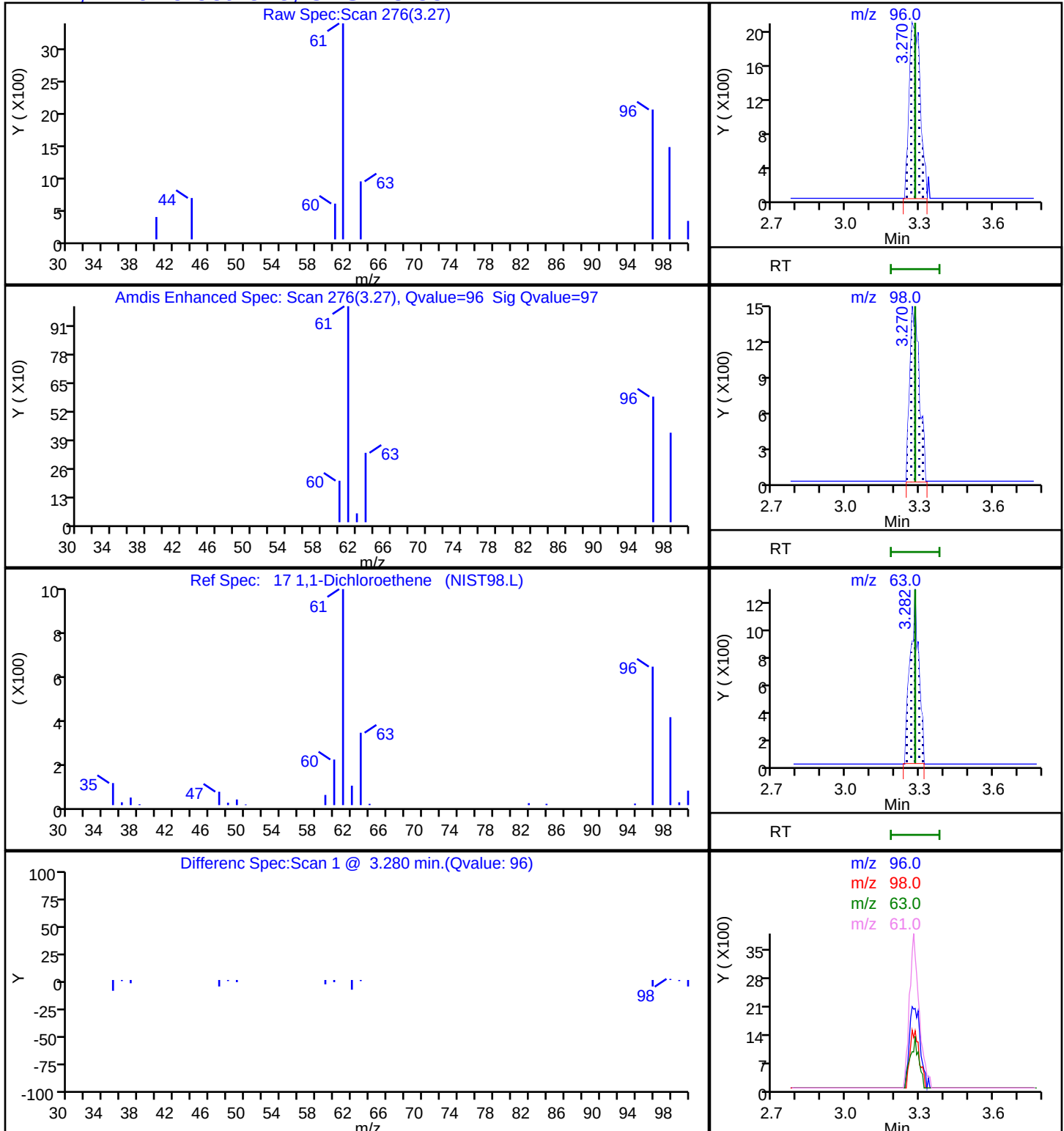
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

17 1,1-Dichloroethene, CAS: 75-35-4

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X43.D

Injection Date: 08-May-2025 01:47:30

Instrument ID: 19094

Lims ID: 410-219242-A-6

Lab Sample ID: 410-219242-6

Client ID: HD-COD-SW-15-0/1-0

Operator ID: gaw91131

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

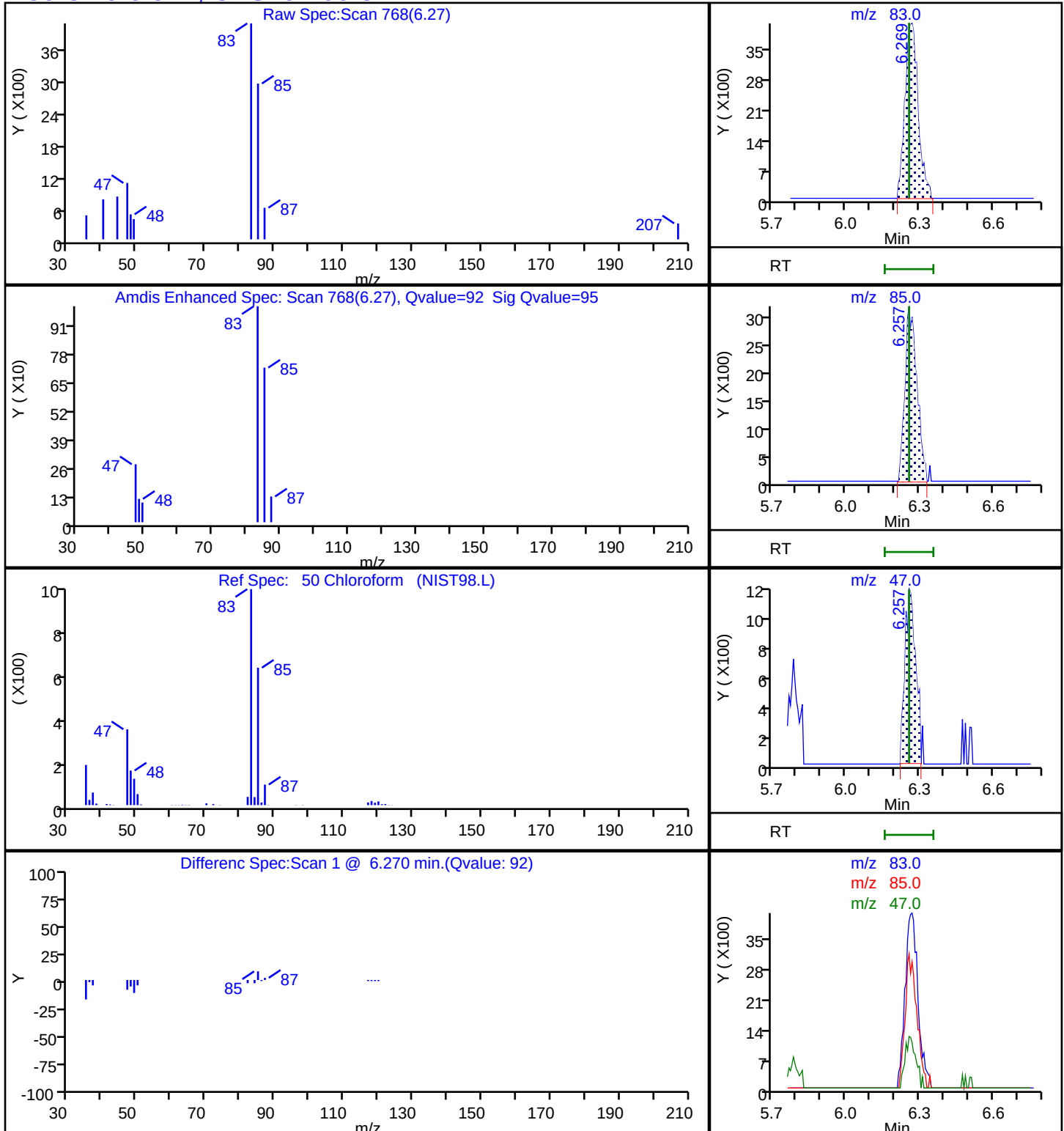
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X43.D

Injection Date: 08-May-2025 01:47:30

Instrument ID: 19094

Lims ID: 410-219242-A-6

Lab Sample ID: 410-219242-6

Client ID: HD-COD-SW-15-0/1-0

Operator ID: gaw91131

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

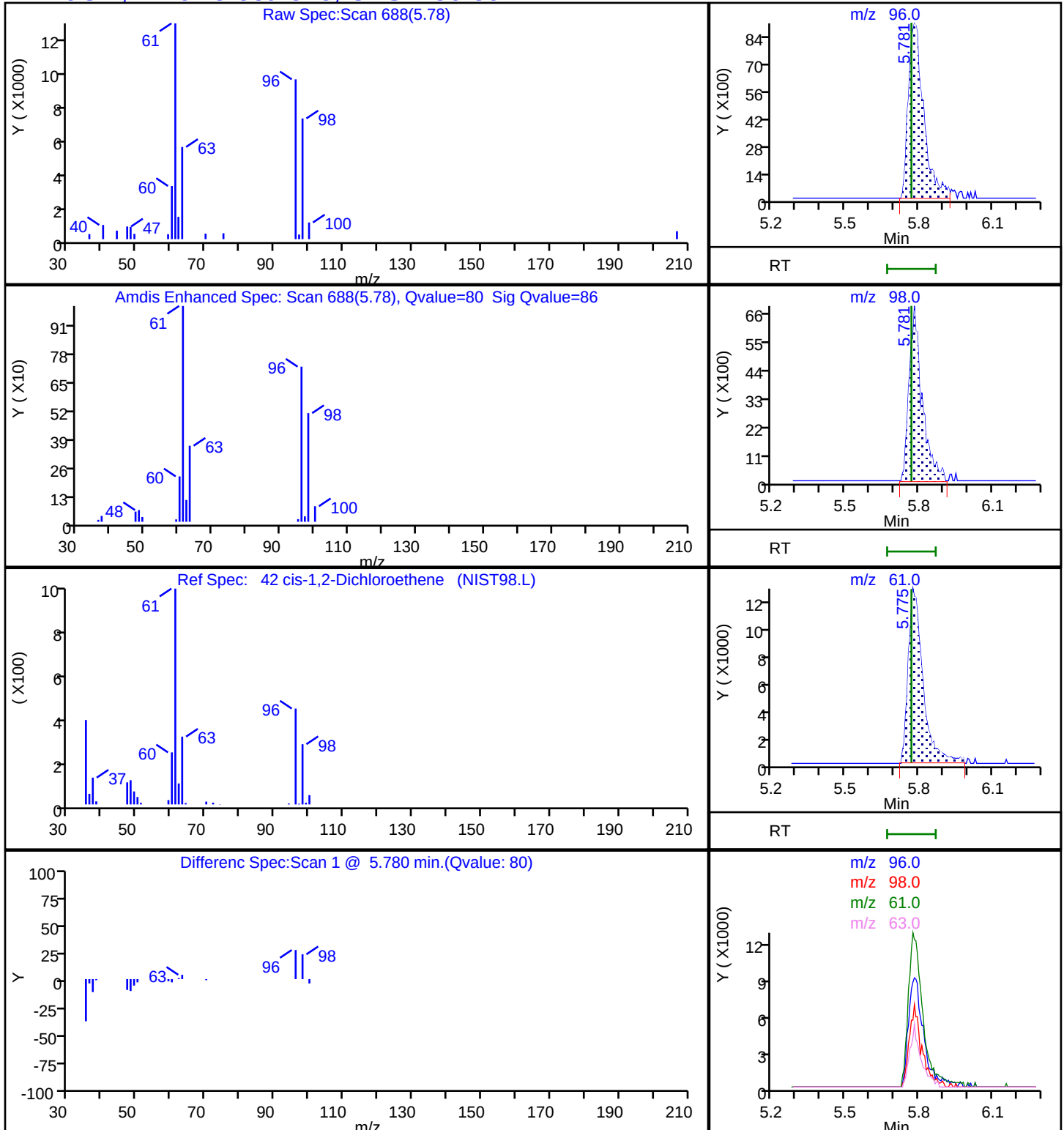
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X43.D

Injection Date: 08-May-2025 01:47:30

Instrument ID: 19094

Lims ID: 410-219242-A-6

Lab Sample ID: 410-219242-6

Client ID: HD-COD-SW-15-0/1-0

Operator ID: gaw91131

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

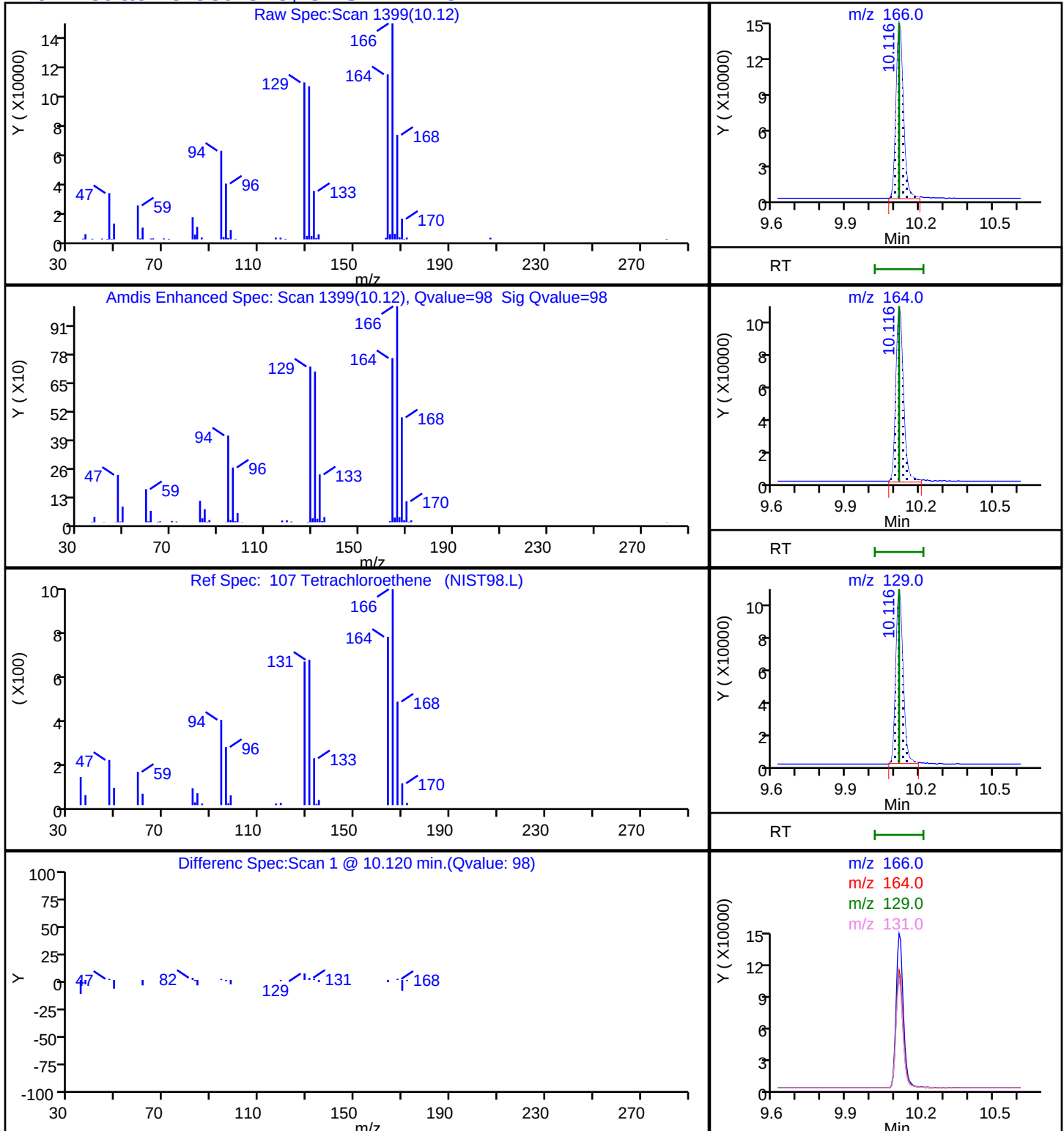
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

107 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X43.D

Injection Date: 08-May-2025 01:47:30

Instrument ID: 19094

Lims ID: 410-219242-A-6

Lab Sample ID: 410-219242-6

Client ID: HD-COD-SW-15-0/1-0

Operator ID: gaw91131

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

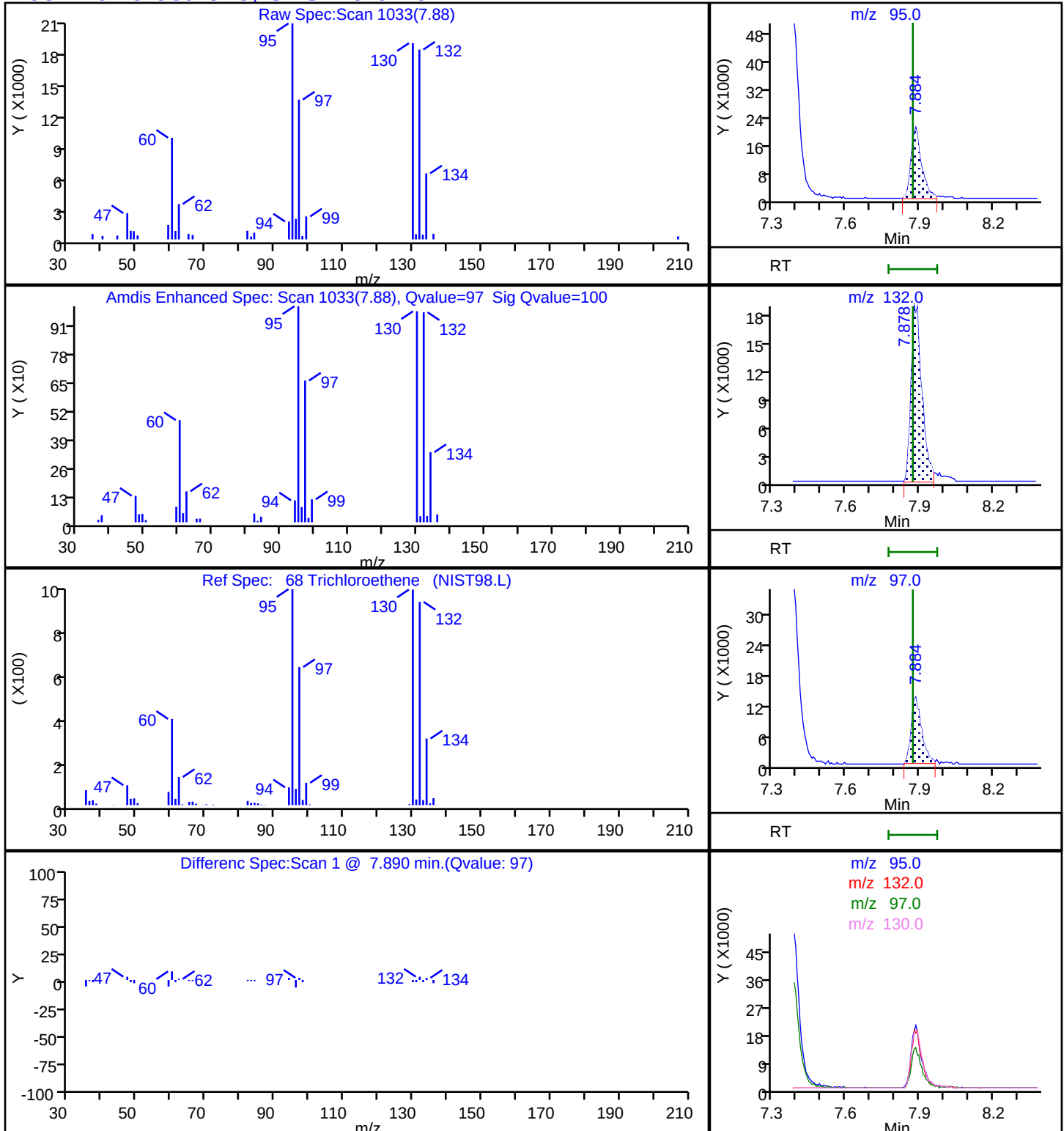
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

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.: 410-219242-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0

Lab Sample ID: 410-219242-7

Matrix: Water

Lab File ID: HY07X46.D

Analysis Method: 8260D

Date Collected: 04/24/2025 09:20

Sample wt/vol: 25 (mL)

Date Analyzed: 05/08/2025 02:50

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 640992

Units: ug/L

Preparation Batch No.:

Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND	^c cn	5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.15	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.56		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-219242-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0

Lab Sample ID: 410-219242-7

Matrix: Water

Lab File ID: HY07X46.D

Analysis Method: 8260D

Date Collected: 04/24/2025 09:20

Sample wt/vol: 25 (mL)

Date Analyzed: 05/08/2025 02:50

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 640992

Units: ug/L

Preparation Batch No.:

Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	0.087	J	0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.21	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

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)	100		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\19094\20250507-146489.b\HY07X46.D
 Lims ID: 410-219242-A-7
 Client ID: HD-COD-SW-16-0/1-0
 Sample Type: Client
 Inject. Date: 08-May-2025 02:50:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0146489-017
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 10:08:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.026	2.032	-0.006	94	4866	0.0605	
6 Vinyl chloride	62		2.142				ND	7
9 Bromomethane	94		2.422				ND	
10 Chloroethane	64		2.507				ND	
17 1,1-Dichloroethene	96		3.282				ND	
19 Acetone	43		3.282				ND	
23 Carbon disulfide	76	3.562	3.568	-0.006	99	8441	0.0662	
27 Methylene Chloride	84		3.885				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.903	3.928	-0.025	93	55021	50.0	
32 Methyl tert-butyl ether	73		4.263				ND	
33 trans-1,2-Dichloroethene	96		4.275				ND	
36 1,1-Dichloroethane	63		4.928				ND	
41 2-Butanone (MEK)	43		5.732				ND	
42 cis-1,2-Dichloroethene	96	5.799	5.769	0.030	81	7716	0.1453	
48 Chlorobromomethane	128		6.104				ND	
50 Chloroform	83	6.275	6.257	0.018	90	7359	0.0887	
\$ 52 Dibromofluoromethane (Surr)	113	6.476	6.476	0.000	93	373579	10.0	
53 1,1,1-Trichloroethane	97	6.494	6.494	0.000	35	2532	0.0337	
56 Carbon tetrachloride	117		6.714				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.933	6.940	-0.007	46	67248	10.2	
59 Benzene	78		6.970				ND	7
60 1,2-Dichloroethane	62		7.043				ND	
* 64 Fluorobenzene (IS)	96	7.384	7.385	-0.001	98	1714594	10.0	
68 Trichloroethene	95	7.884	7.872	0.012	94	11050	0.2099	M
70 1,2-Dichloropropane	63		8.208				ND	
76 Dichlorobromomethane	83		8.561				ND	7
80 cis-1,3-Dichloropropene	75		9.134				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.317				ND	
\$ 83 Toluene-d8 (Surr)	98	9.457	9.457	0.000	94	1671955	10.1	
84 Toluene	92	9.542	9.537	0.005	97	11262	0.0871	
85 trans-1,3-Dichloropropene	75		9.817				ND	
106 1,1,2-Trichloroethane	97		10.030				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.122	10.116	0.006	98	33725	0.5638	
109 2-Hexanone	43		10.250				ND	
111 Chlorodibromomethane	129		10.414				ND	
112 Ethylene Dibromide	107		10.530				ND	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	87	1217911	10.0	
115 Chlorobenzene	112		11.000				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.085				ND	
117 Ethylbenzene	91		11.091				ND	7
119 m-Xylene & p-Xylene	106		11.207				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.542				ND	7
121 Styrene	104		11.561				ND	7
122 Bromoform	173		11.719				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	11.999	11.993	0.006	92	587516	9.74	
127 1,1,2,2-Tetrachloroethane	83		12.097				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.889	12.883	0.006	95	624056	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-May-2025 10:21:51

Chrom Revision: 2.3 18-Apr-2025 15:35:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X46.D

Injection Date: 08-May-2025 02:50:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-219242-A-7

Lab Sample ID: 410-219242-7

Worklist Smp#: 17

Client ID: HD-COD-SW-16-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

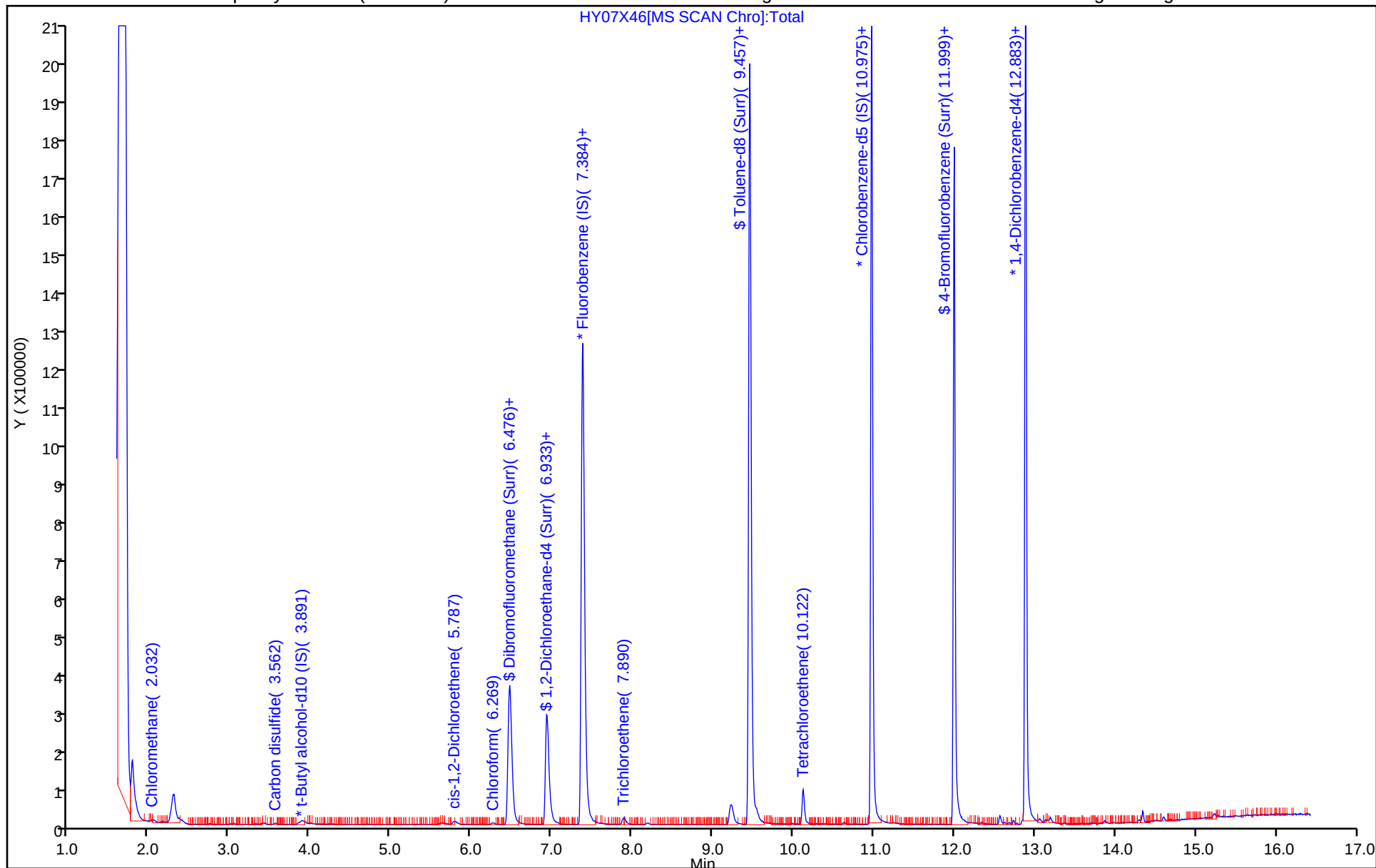
ALS Bottle#: 16

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X46.D
Lims ID: 410-219242-A-7
Client ID: HD-COD-SW-16-0/1-0
Sample Type: Client
Inject. Date: 08-May-2025 02:50:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0146489-017
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 10:08:49

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.0	100.32
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	101.99
\$ 83 Toluene-d8 (Surr)	10.0	10.1	101.47
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.74	97.41

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X46.D

Injection Date: 08-May-2025 02:50:30

Instrument ID: 19094

Lims ID: 410-219242-A-7

Lab Sample ID: 410-219242-7

Client ID: HD-COD-SW-16-0/1-0

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

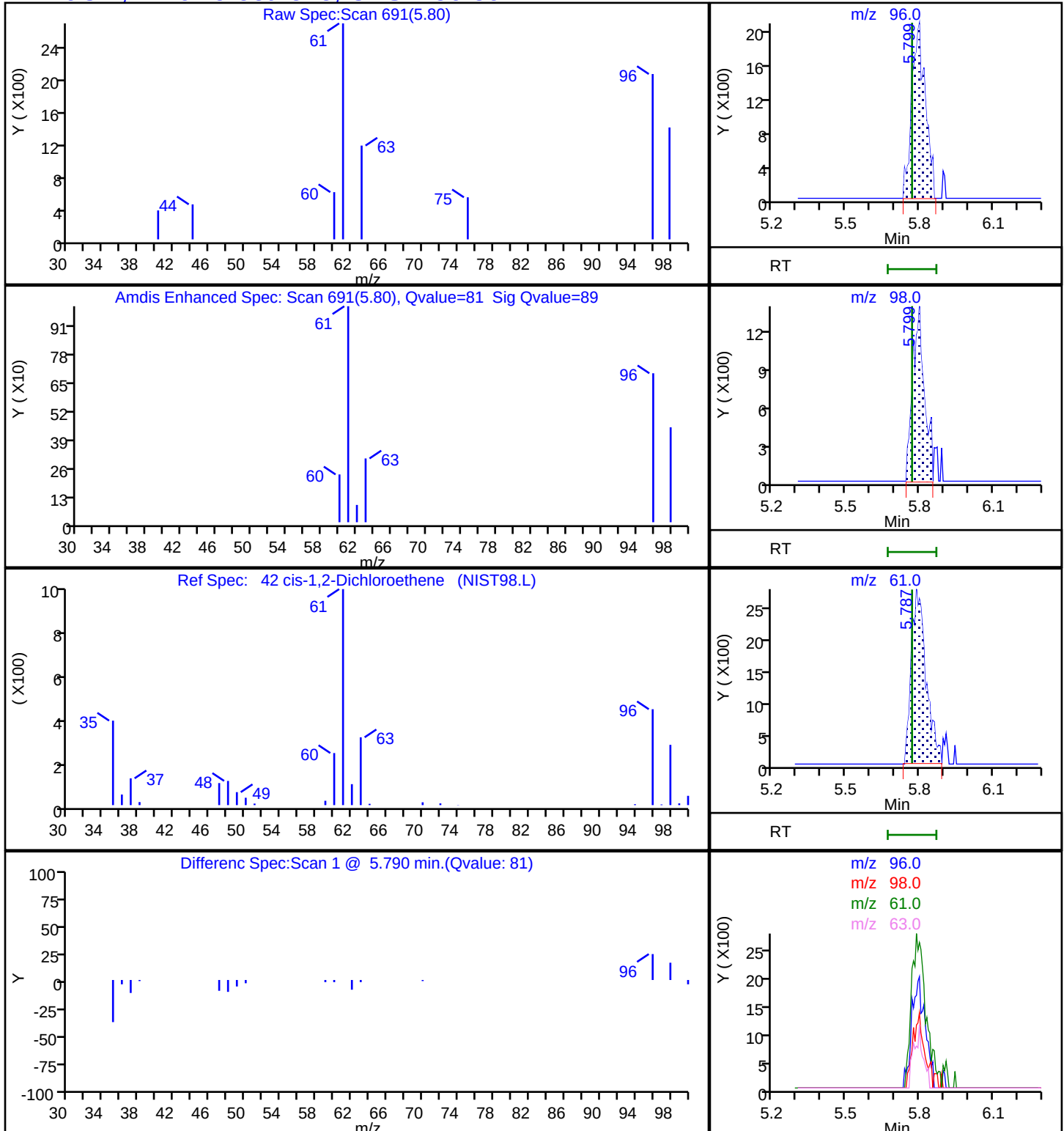
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 100m

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X46.D

Injection Date: 08-May-2025 02:50:30

Instrument ID: 19094

Lims ID: 410-219242-A-7

Lab Sample ID: 410-219242-7

Client ID: HD-COD-SW-16-0/1-0

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

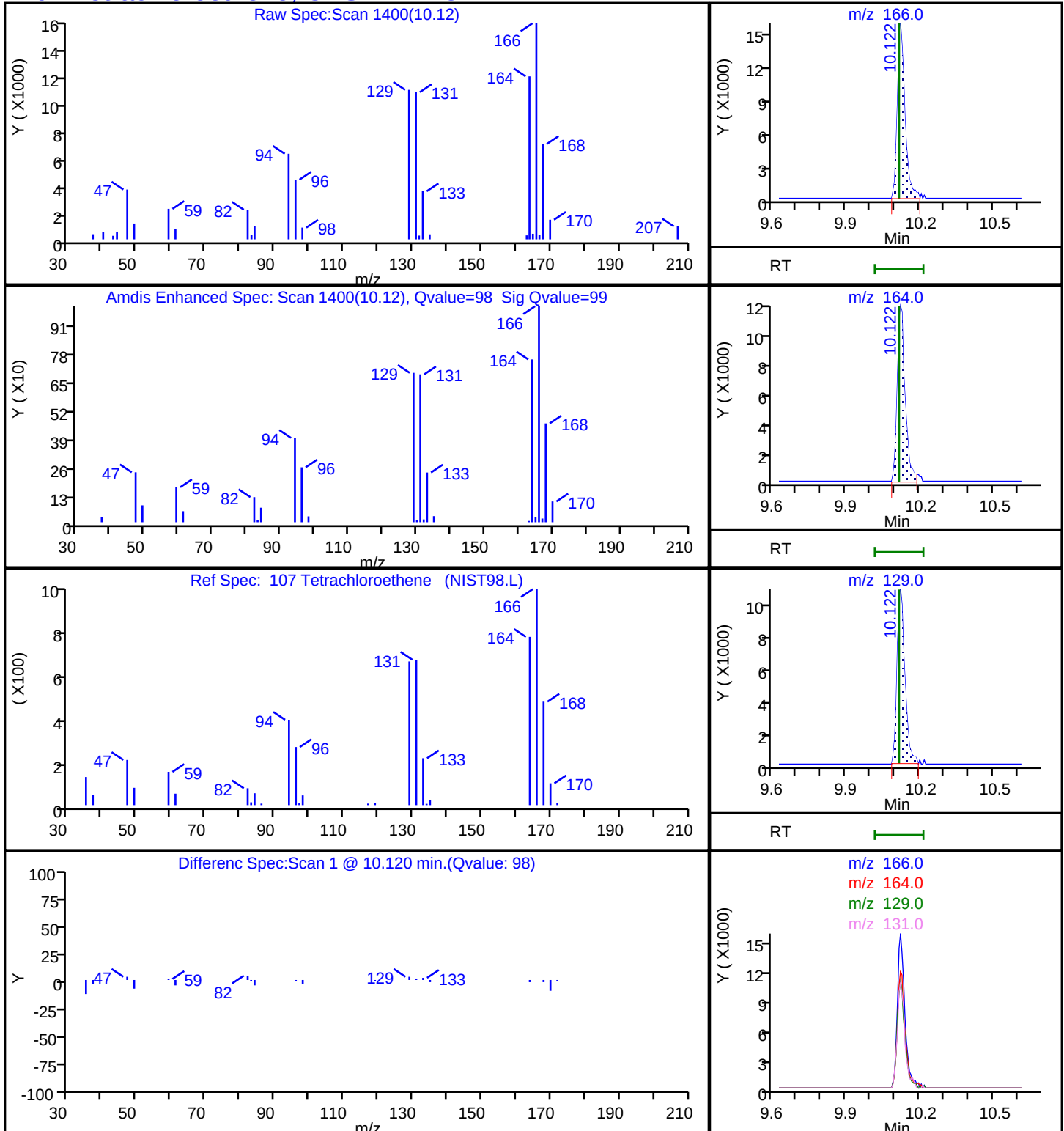
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

107 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X46.D

Injection Date: 08-May-2025 02:50:30

Instrument ID: 19094

Lims ID: 410-219242-A-7

Lab Sample ID: 410-219242-7

Client ID: HD-COD-SW-16-0/1-0

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

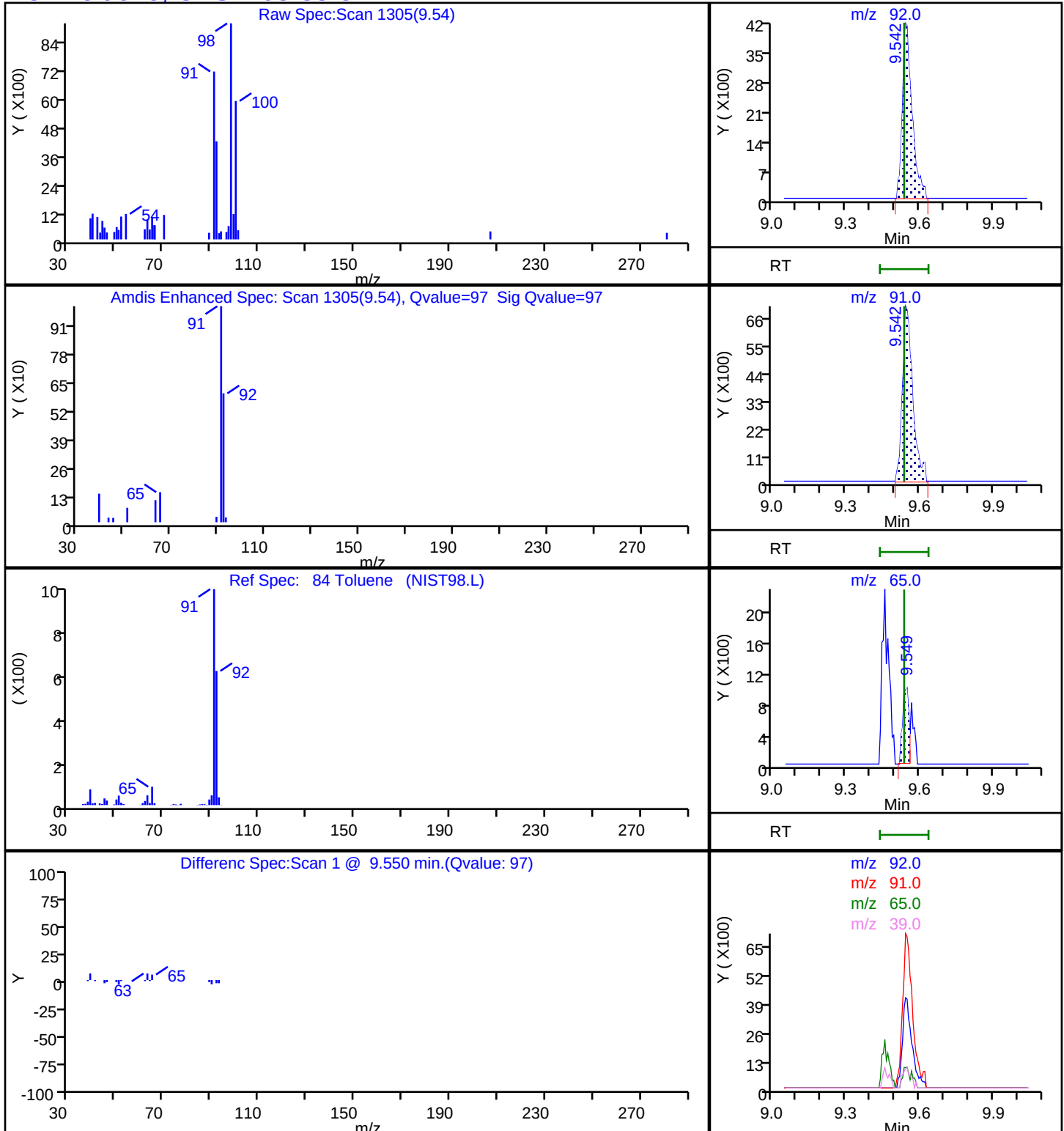
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

84 Toluene, CAS: 108-88-3

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X46.D

Injection Date: 08-May-2025 02:50:30

Instrument ID: 19094

Lims ID: 410-219242-A-7

Lab Sample ID: 410-219242-7

Client ID: HD-COD-SW-16-0/1-0

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

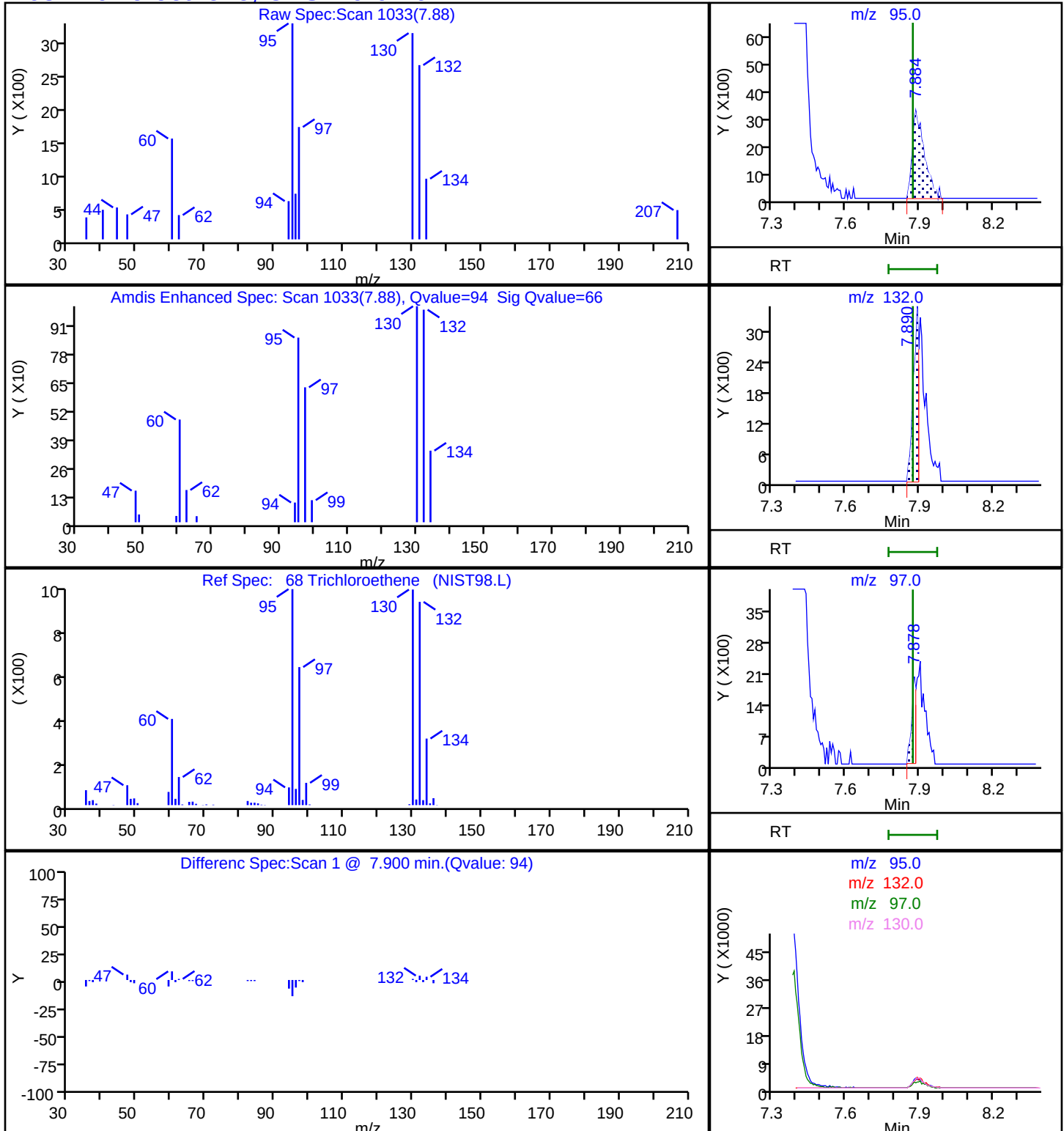
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

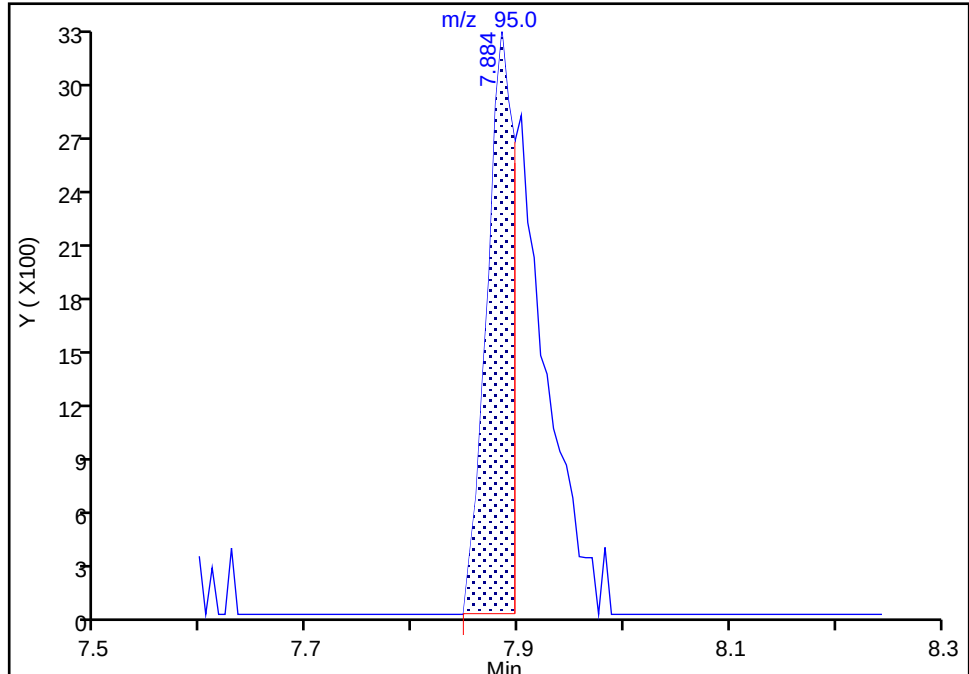
Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X46.D
Injection Date: 08-May-2025 02:50:30 Instrument ID: 19094
Lims ID: 410-219242-A-7 Lab Sample ID: 410-219242-7
Client ID: HD-COD-SW-16-0/1-0
Operator ID: gaw91131 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

68 Trichloroethene, CAS: 79-01-6

Signal: 1

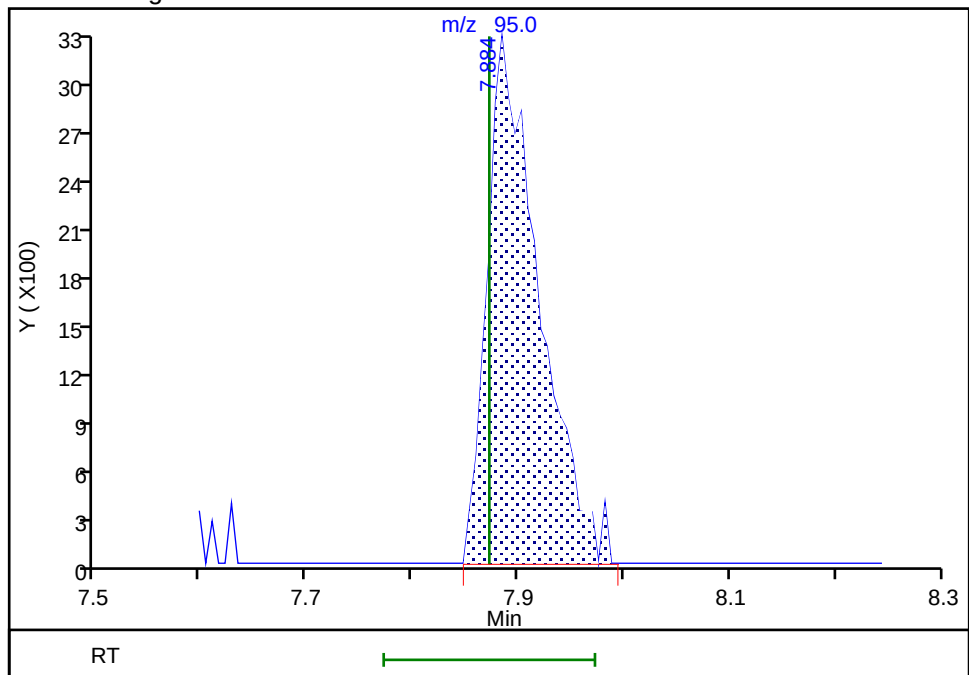
RT: 7.88
Area: 5767
Amount: 0.109556
Amount Units: ug/l

Processing Integration Results



RT: 7.88
Area: 11050
Amount: 0.209917
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 10:08:17 -04:00:00 (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.: 410-219242-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0

Lab Sample ID: 410-219242-8

Matrix: Water

Lab File ID: HY07X57.D

Analysis Method: 8260D

Date Collected: 04/24/2025 09:30

Sample wt/vol: 25 (mL)

Date Analyzed: 05/08/2025 06:38

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 640992

Units: ug/L

Preparation Batch No.:

Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	12		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	2.2		0.50	0.10
75-35-4	1,1-Dichloroethene	0.90		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND	^c cn	5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.17	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	2.1		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-17-0/1-0 Lab Sample ID: 410-219242-8

Matrix: Water Lab File ID: HY07X57.D

Analysis Method: 8260D Date Collected: 04/24/2025 09:30

Sample wt/vol: 25 (mL) Date Analyzed: 05/08/2025 06:38

Soil Aliquot Vol: _____ Dilution Factor: 1

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

Purge Volume: 25.0 (mL) Heated Purge: (Y/N) N pH: _____

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

Analysis Batch No.: 640992 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	3.7		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		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\19094\20250507-146489.b\HY07X57.D
 Lims ID: 410-219242-A-8
 Client ID: HD-COD-SW-17-0/1-0
 Sample Type: Client
 Inject. Date: 08-May-2025 06:38:30 ALS Bottle#: 27 Worklist Smp#: 28
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0146489-028
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 10:18:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.032				ND	7
6 Vinyl chloride	62		2.142				ND	7
9 Bromomethane	94		2.422				ND	
10 Chloroethane	64		2.507				ND	
17 1,1-Dichloroethene	96	3.288	3.282	0.006	96	34994	0.9040	
19 Acetone	43		3.282				ND	
23 Carbon disulfide	76		3.568				ND	
27 Methylene Chloride	84		3.885				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.903	3.928	-0.025	94	48590	50.0	
32 Methyl tert-butyl ether	73		4.263				ND	7
33 trans-1,2-Dichloroethene	96	4.324	4.275	0.049	1	2106	0.0486	M
36 1,1-Dichloroethane	63	4.928	4.928	0.000	96	188712	2.18	
41 2-Butanone (MEK)	43		5.732				ND	
42 cis-1,2-Dichloroethene	96	5.775	5.769	0.006	81	111092	2.15	
48 Chlorobromomethane	128		6.104				ND	
50 Chloroform	83	6.269	6.257	0.012	92	13874	0.1717	
\$ 52 Dibromofluoromethane (Surr)	113	6.482	6.476	0.006	93	371638	10.2	
53 1,1,1-Trichloroethane	97	6.494	6.494	0.000	99	880678	12.0	
56 Carbon tetrachloride	117		6.714				ND	7
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.939	6.940	-0.001	46	61762	9.62	
59 Benzene	78		6.970				ND	7
60 1,2-Dichloroethane	62		7.043				ND	
* 64 Fluorobenzene (IS)	96	7.385	7.385	-0.001	98	1670196	10.0	
68 Trichloroethene	95	7.878	7.872	0.006	99	189165	3.69	
70 1,2-Dichloropropane	63		8.208				ND	
76 Dichlorobromomethane	83		8.561				ND	
80 cis-1,3-Dichloropropene	75		9.134				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.317				ND	
\$ 83 Toluene-d8 (Surr)	98	9.463	9.457	0.006	94	1629555	9.64	
84 Toluene	92		9.537				ND	7
85 trans-1,3-Dichloropropene	75		9.817				ND	
106 1,1,2-Trichloroethane	97		10.030				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.116	10.116	0.000	98	10613465	173.0	E
109 2-Hexanone	43		10.250				ND	
111 Chlorodibromomethane	129		10.414				ND	7
112 Ethylene Dibromide	107		10.530				ND	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	87	1249283	10.0	
115 Chlorobenzene	112		11.000				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.085				ND	
117 Ethylbenzene	91		11.091				ND	
119 m-Xylene & p-Xylene	106		11.207				ND	
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.542				ND	
121 Styrene	104		11.561				ND	
122 Bromoform	173		11.719				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	11.999	11.993	0.006	91	583107	9.43	
127 1,1,2,2-Tetrachloroethane	83		12.097				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.890	12.883	0.007	95	622727	10.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-May-2025 10:22:35

Chrom Revision: 2.3 18-Apr-2025 15:35:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X57.D

Injection Date: 08-May-2025 06:38:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-219242-A-8

Lab Sample ID: 410-219242-8

Worklist Smp#: 28

Client ID: HD-COD-SW-17-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

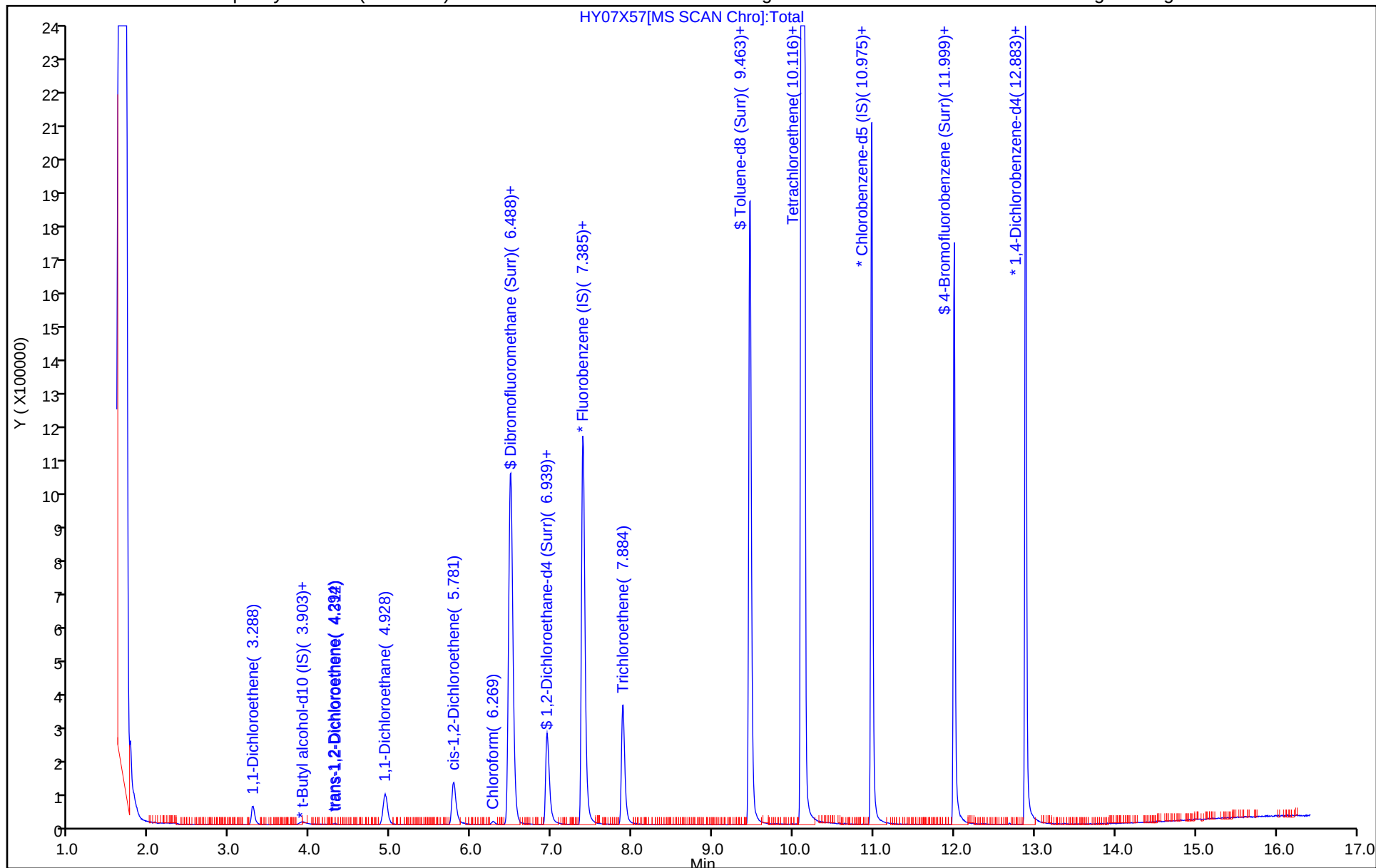
ALS Bottle#: 27

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X57.D
Lims ID: 410-219242-A-8
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 08-May-2025 06:38:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0146489-028
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 10:18:06

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.2	102.45
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.62	96.16
\$ 83 Toluene-d8 (Surr)	10.0	9.64	96.41
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.43	94.25

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X57.D

Injection Date: 08-May-2025 06:38:30

Instrument ID: 19094

Lims ID: 410-219242-A-8

Lab Sample ID: 410-219242-8

Client ID: HD-COD-SW-17-0/1-0

Operator ID: gaw91131

ALS Bottle#: 27

Worklist Smp#: 28

Purge Vol: 25.000 mL

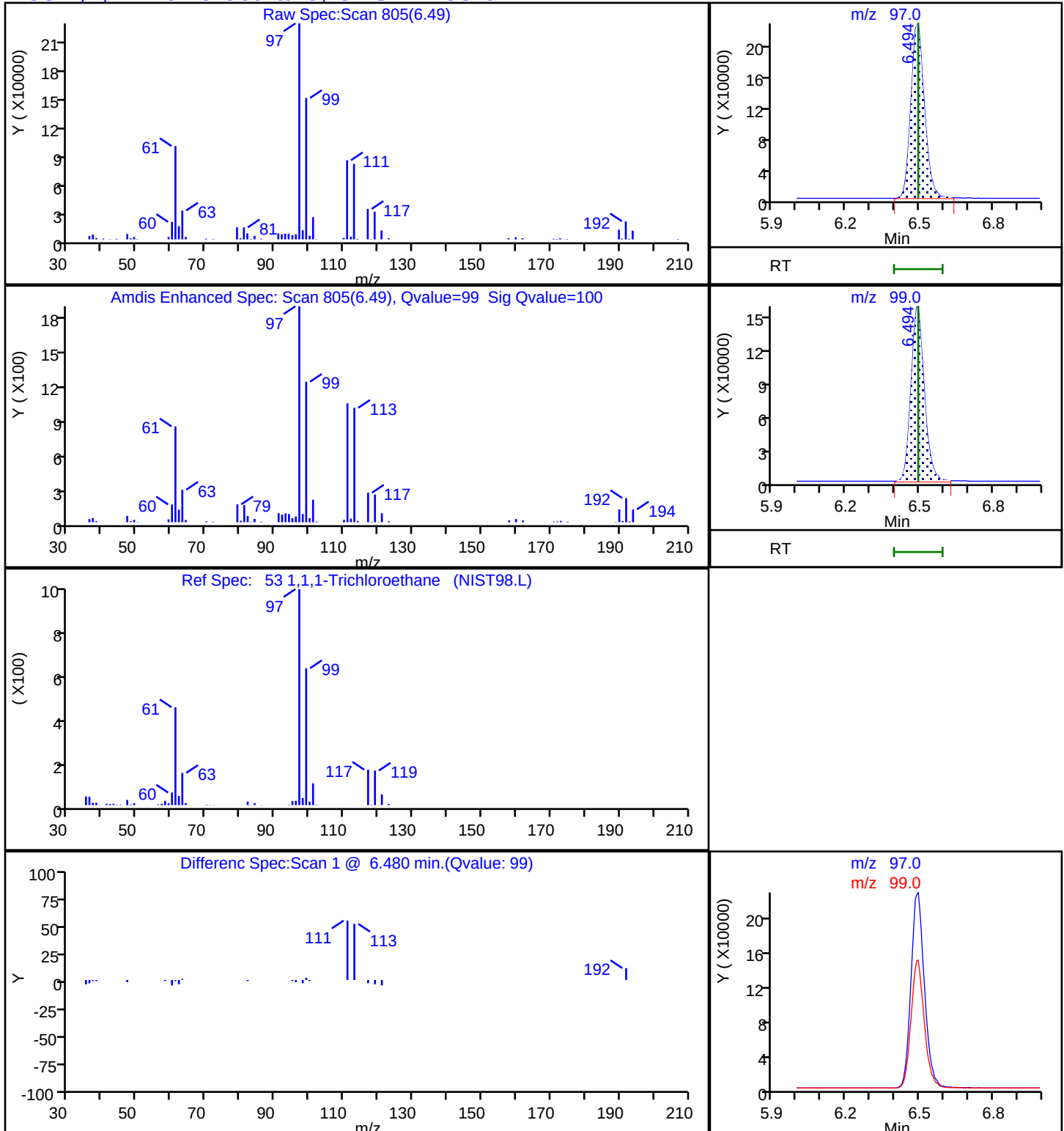
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

53 1,1,1-Trichloroethane, CAS: 71-55-6

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X57.D

Injection Date: 08-May-2025 06:38:30

Instrument ID: 19094

Lims ID: 410-219242-A-8

Lab Sample ID: 410-219242-8

Client ID: HD-COD-SW-17-0/1-0

Operator ID: gaw91131

ALS Bottle#: 27

Worklist Smp#: 28

Purge Vol: 25.000 mL

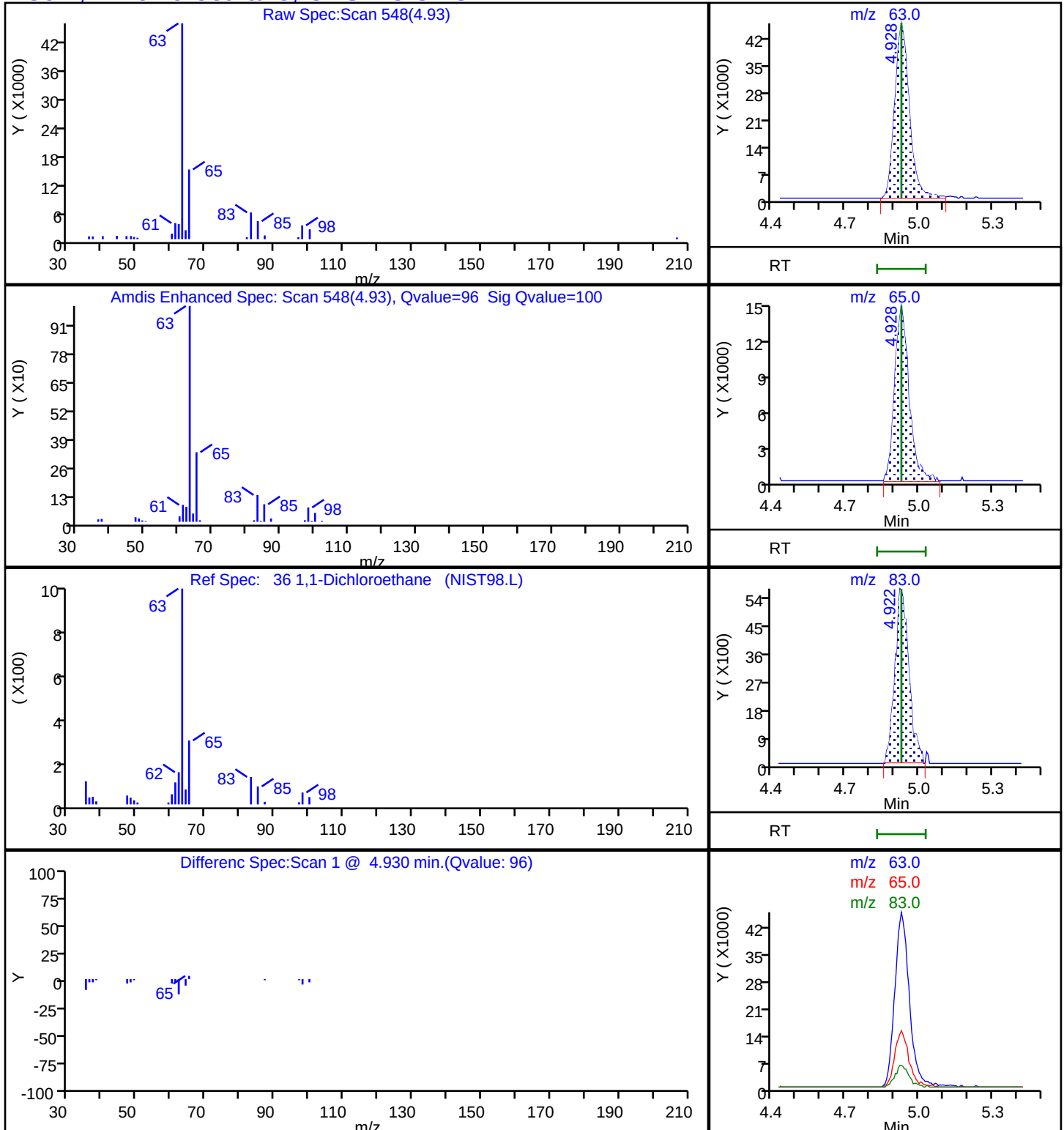
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

36 1,1-Dichloroethane, CAS: 75-34-3

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X57.D

Injection Date: 08-May-2025 06:38:30

Instrument ID: 19094

Lims ID: 410-219242-A-8

Lab Sample ID: 410-219242-8

Client ID: HD-COD-SW-17-0/1-0

Operator ID: gaw91131

ALS Bottle#: 27

Worklist Smp#: 28

Purge Vol: 25.000 mL

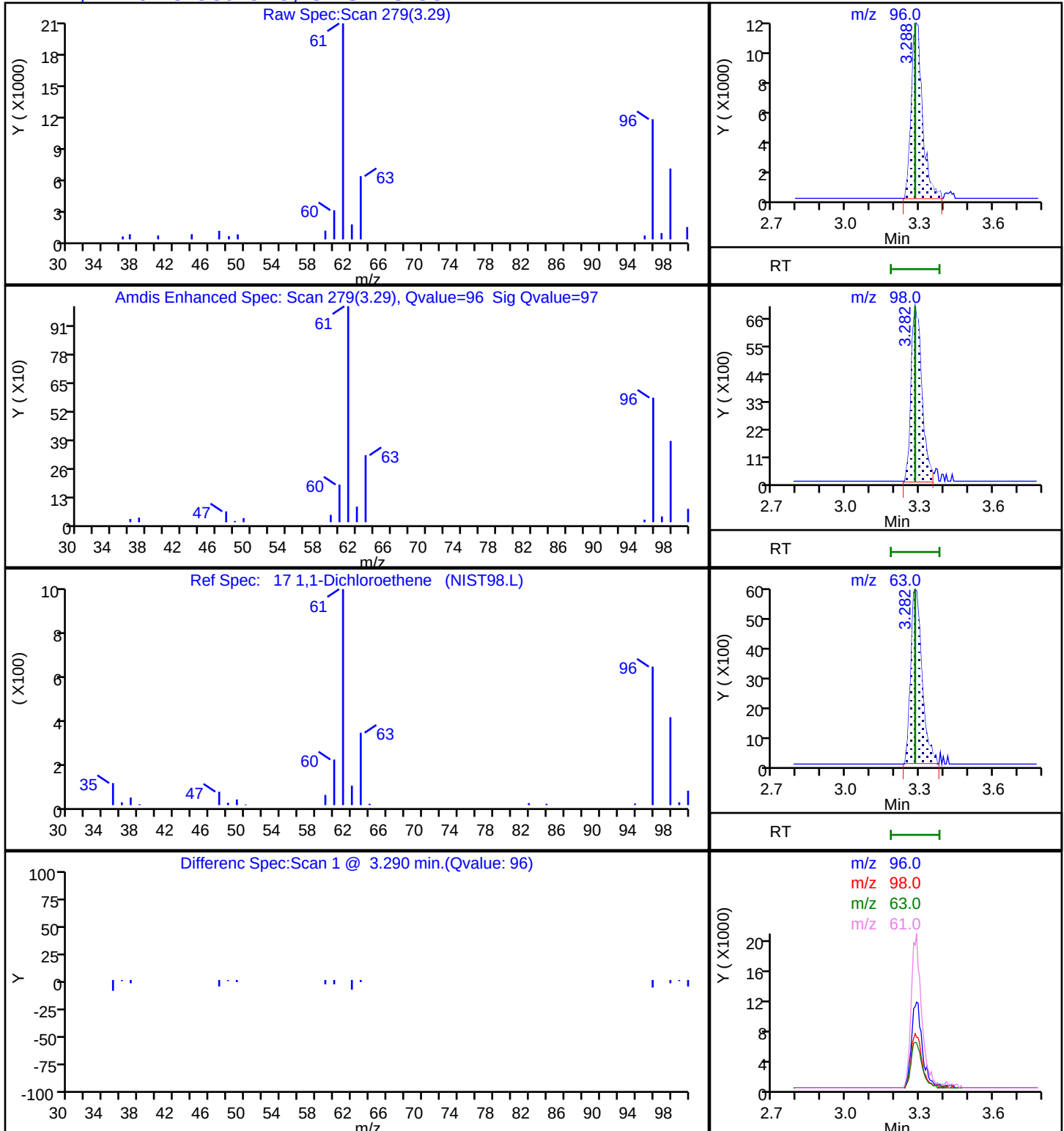
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

17 1,1-Dichloroethene, CAS: 75-35-4

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X57.D

Injection Date: 08-May-2025 06:38:30

Instrument ID: 19094

Lims ID: 410-219242-A-8

Lab Sample ID: 410-219242-8

Client ID: HD-COD-SW-17-0/1-0

Operator ID: gaw91131

ALS Bottle#: 27

Worklist Smp#: 28

Purge Vol: 25.000 mL

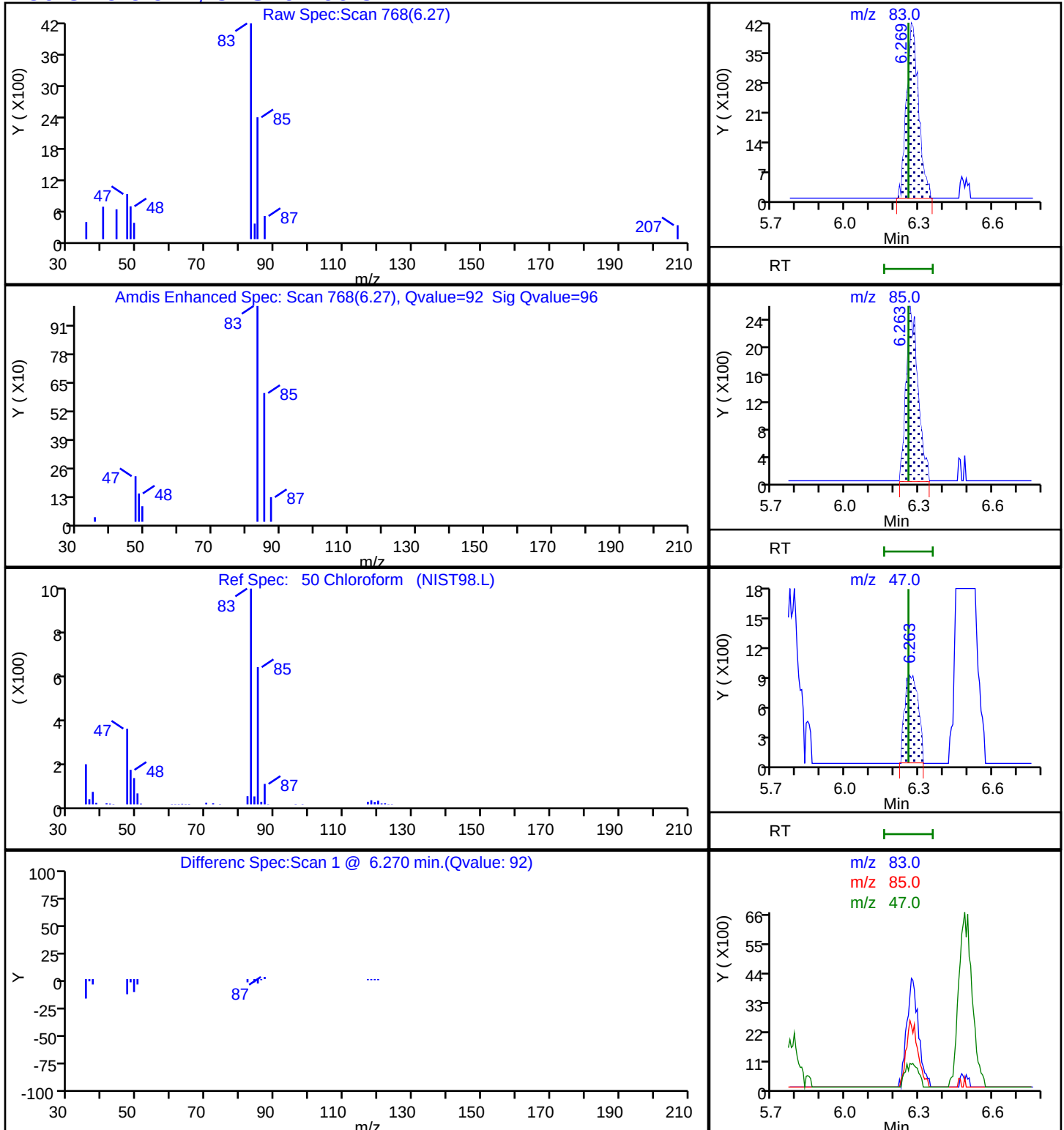
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X57.D

Injection Date: 08-May-2025 06:38:30

Instrument ID: 19094

Lims ID: 410-219242-A-8

Lab Sample ID: 410-219242-8

Client ID: HD-COD-SW-17-0/1-0

Operator ID: gaw91131

ALS Bottle#: 27

Worklist Smp#: 28

Purge Vol: 25.000 mL

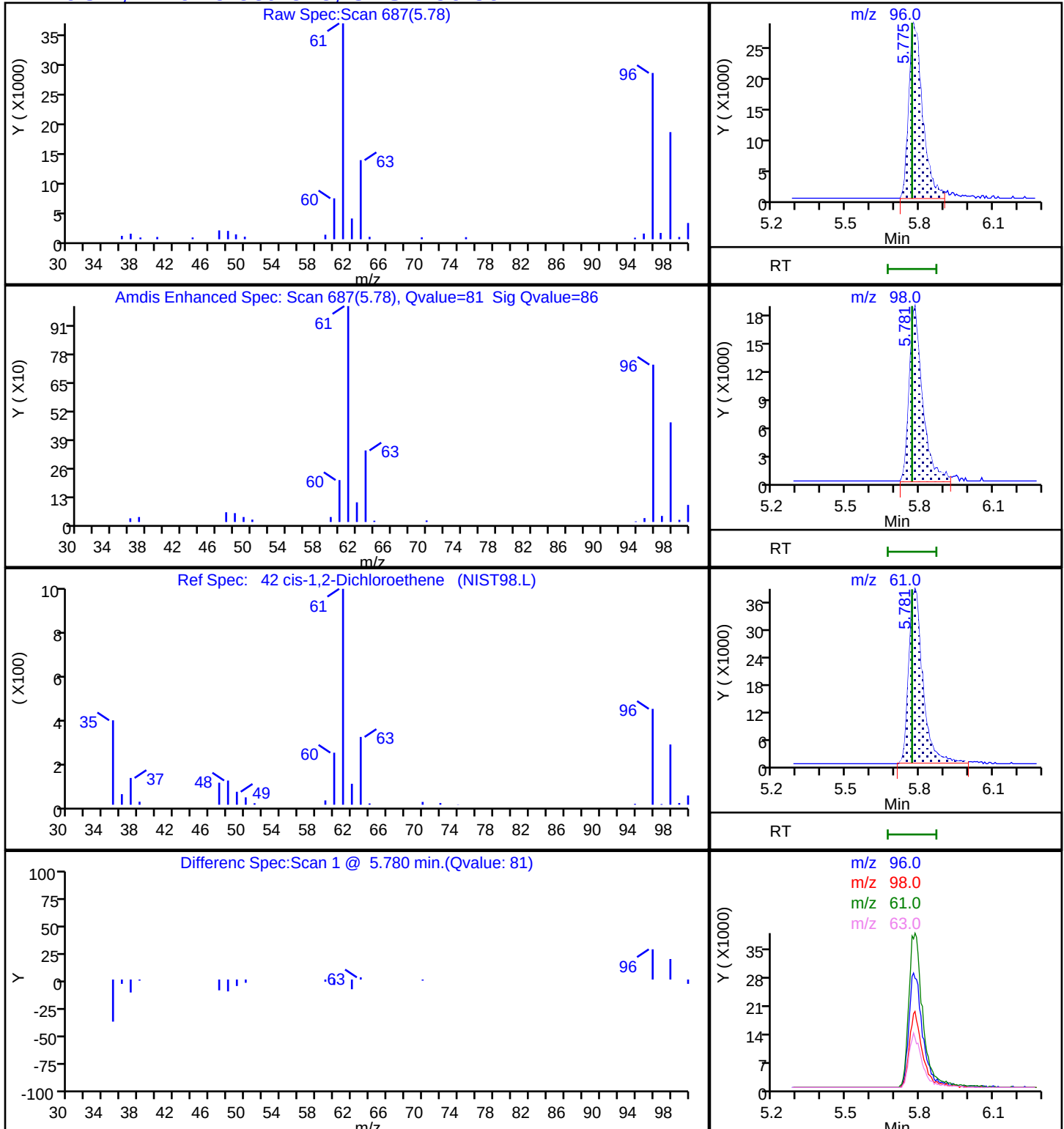
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X57.D

Injection Date: 08-May-2025 06:38:30

Instrument ID: 19094

Lims ID: 410-219242-A-8

Lab Sample ID: 410-219242-8

Client ID: HD-COD-SW-17-0/1-0

Operator ID: gaw91131

ALS Bottle#: 27

Worklist Smp#: 28

Purge Vol: 25.000 mL

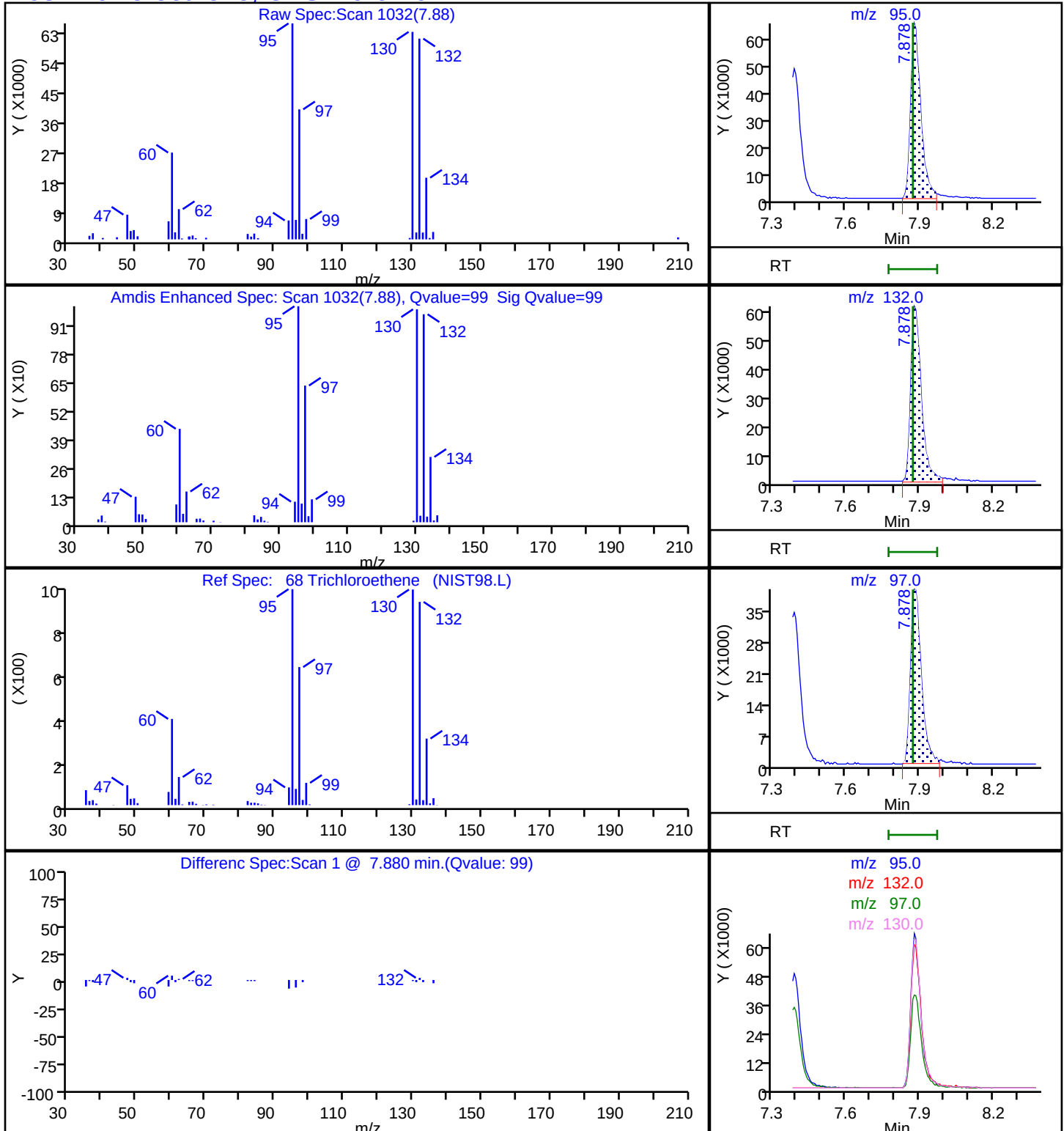
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

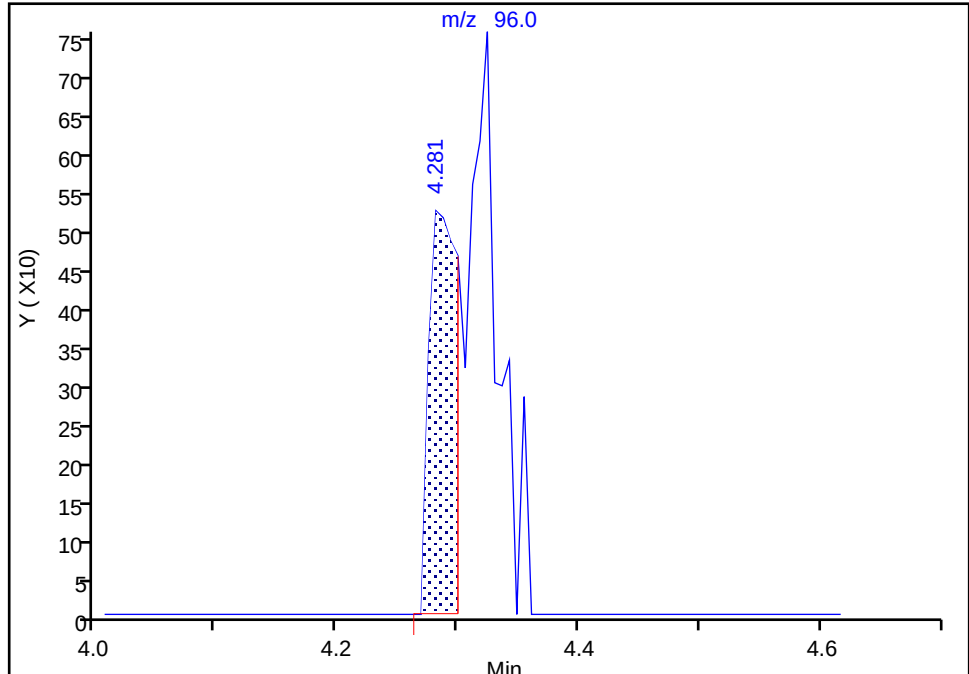
Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X57.D
Injection Date: 08-May-2025 06:38:30 Instrument ID: 19094
Lims ID: 410-219242-A-8 Lab Sample ID: 410-219242-8
Client ID: HD-COD-SW-17-0/1-0
Operator ID: gaw91131 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

33 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

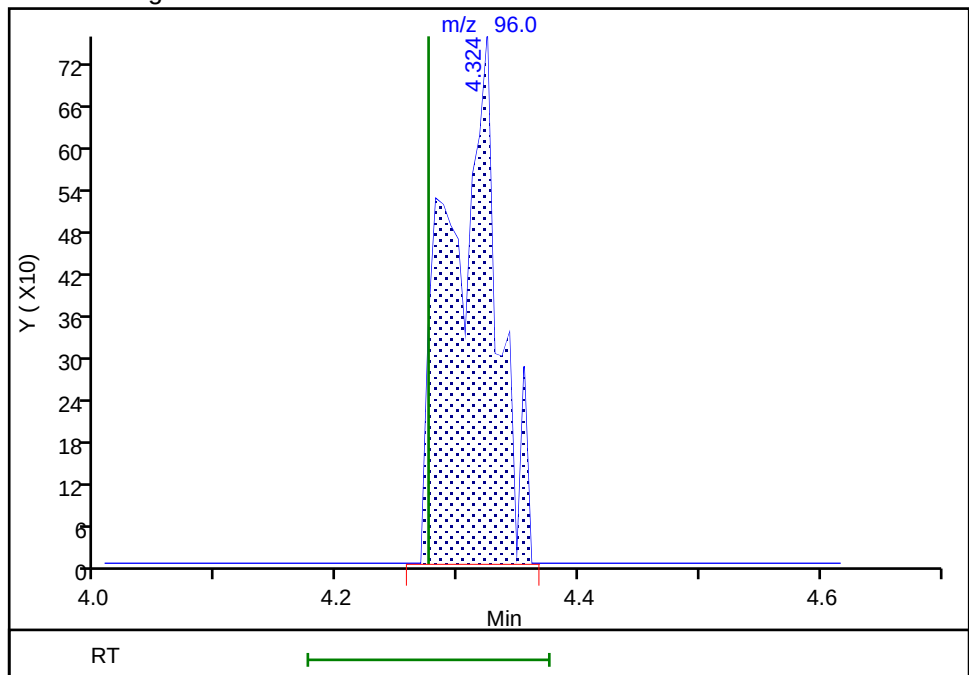
RT: 4.28
Area: 848
Amount: 0.019557
Amount Units: ug/l

Processing Integration Results



RT: 4.32
Area: 2106
Amount: 0.048569
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 10:17:31 -04:00:00 (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.: 410-219242-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0 DL

Lab Sample ID: 410-219242-8 DL

Matrix: Water

Lab File ID: HY07X58.D

Analysis Method: 8260D

Date Collected: 04/24/2025 09:30

Sample wt/vol: 25 (mL)

Date Analyzed: 05/08/2025 06:58

Soil Aliquot Vol:

Dilution Factor: 20

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 640992

Units: ug/L

Preparation Batch No.:

Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	140		10	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		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\19094\20250507-146489.b\HY07X58.D
 Lims ID: 410-219242-B-8
 Client ID: HD-COD-SW-17-0/1-0
 Sample Type: Client
 Inject. Date: 08-May-2025 06:58:30 ALS Bottle#: 28 Worklist Smp#: 29
 Purge Vol: 25.000 mL Dil. Factor: 20.0000
 Sample Info: 410-0146489-029
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 10:18:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.032				ND	
6 Vinyl chloride	62		2.142				ND	
9 Bromomethane	94		2.422				ND	
10 Chloroethane	64		2.507				ND	
17 1,1-Dichloroethene	96	3.306	3.282	0.024	10	1351	0.0348	
19 Acetone	43		3.282				ND	
23 Carbon disulfide	76		3.568				ND	
27 Methylene Chloride	84		3.885				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.903	3.928	-0.025	97	50907	50.0	
32 Methyl tert-butyl ether	73		4.263				ND	
33 trans-1,2-Dichloroethene	96		4.275				ND	
36 1,1-Dichloroethane	63	4.934	4.928	0.006	1	7539	0.0868	
41 2-Butanone (MEK)	43		5.732				ND	
42 cis-1,2-Dichloroethene	96	5.805	5.769	0.036	77	4645	0.0896	M
48 Chlorobromomethane	128		6.104				ND	
50 Chloroform	83		6.257				ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.476	6.476	0.000	94	366445	10.1	
53 1,1,1-Trichloroethane	97	6.488	6.494	-0.006	43	36855	0.5030	
56 Carbon tetrachloride	117		6.714				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.933	6.940	-0.007	47	67505	10.5	
59 Benzene	78		6.970				ND	
60 1,2-Dichloroethane	62		7.043				ND	7
* 64 Fluorobenzene (IS)	96	7.384	7.385	-0.001	99	1673021	10.0	
68 Trichloroethene	95	7.896	7.872	0.024	95	8010	0.1559	M
70 1,2-Dichloropropane	63		8.208				ND	
76 Dichlorobromomethane	83		8.561				ND	
80 cis-1,3-Dichloropropene	75		9.134				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.317				ND	
\$ 83 Toluene-d8 (Surr)	98	9.457	9.457	0.000	94	1643982	10.1	
84 Toluene	92		9.537				ND	
85 trans-1,3-Dichloropropene	75		9.817				ND	
106 1,1,2-Trichloroethane	97	10.116	10.030	0.086	36	2652	0.0964	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.116	10.116	0.000	98	412857	6.95	
109 2-Hexanone	43		10.250				ND	
111 Chlorodibromomethane	129		10.414				ND	7
112 Ethylene Dibromide	107		10.530				ND	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	87	1208642	10.0	
115 Chlorobenzene	112		11.000				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.085				ND	
117 Ethylbenzene	91		11.091				ND	
119 m-Xylene & p-Xylene	106		11.207				ND	
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.542				ND	
121 Styrene	104		11.561				ND	
122 Bromoform	173		11.719				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	11.999	11.993	0.006	91	561834	9.39	
127 1,1,2,2-Tetrachloroethane	83		12.097				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.889	12.883	0.006	95	617593	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-May-2025 10:22:38

Chrom Revision: 2.3 18-Apr-2025 15:35:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X58.D

Injection Date: 08-May-2025 06:58:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-219242-B-8

Lab Sample ID: 410-219242-8

Worklist Smp#: 29

Client ID: HD-COD-SW-17-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 20.0000

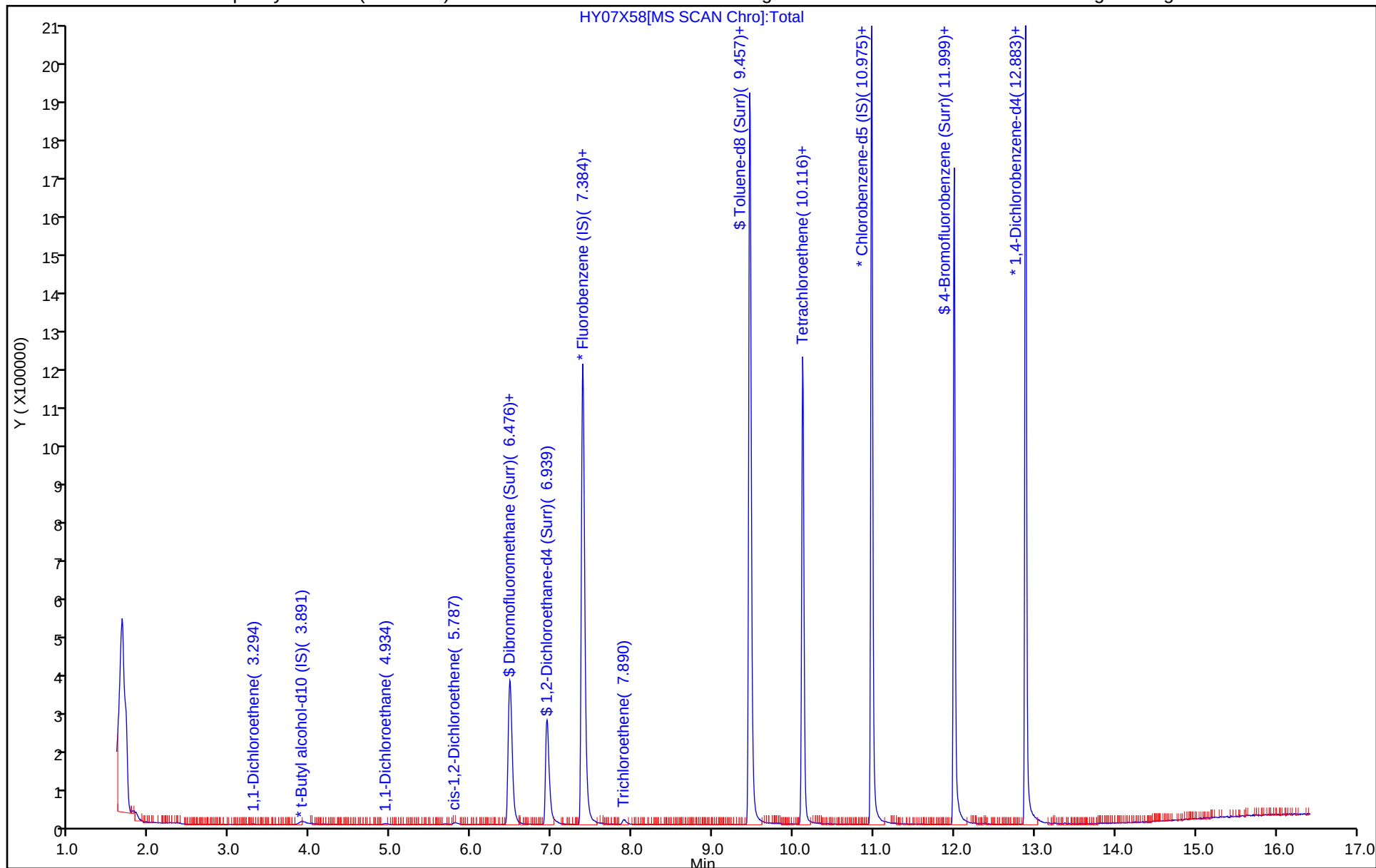
ALS Bottle#: 28

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X58.D
Lims ID: 410-219242-B-8
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 08-May-2025 06:58:30 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 25.000 mL Dil. Factor: 20.0000
Sample Info: 410-0146489-029
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 10:18:56

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.1	100.85
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	104.92
\$ 83 Toluene-d8 (Surr)	10.0	10.1	100.53
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.39	93.87

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X58.D

Injection Date: 08-May-2025 06:58:30

Instrument ID: 19094

Lims ID: 410-219242-B-8

Lab Sample ID: 410-219242-8

Client ID: HD-COD-SW-17-0/1-0

Operator ID: gaw91131

ALS Bottle#: 28

Worklist Smp#: 29

Purge Vol: 25.000 mL

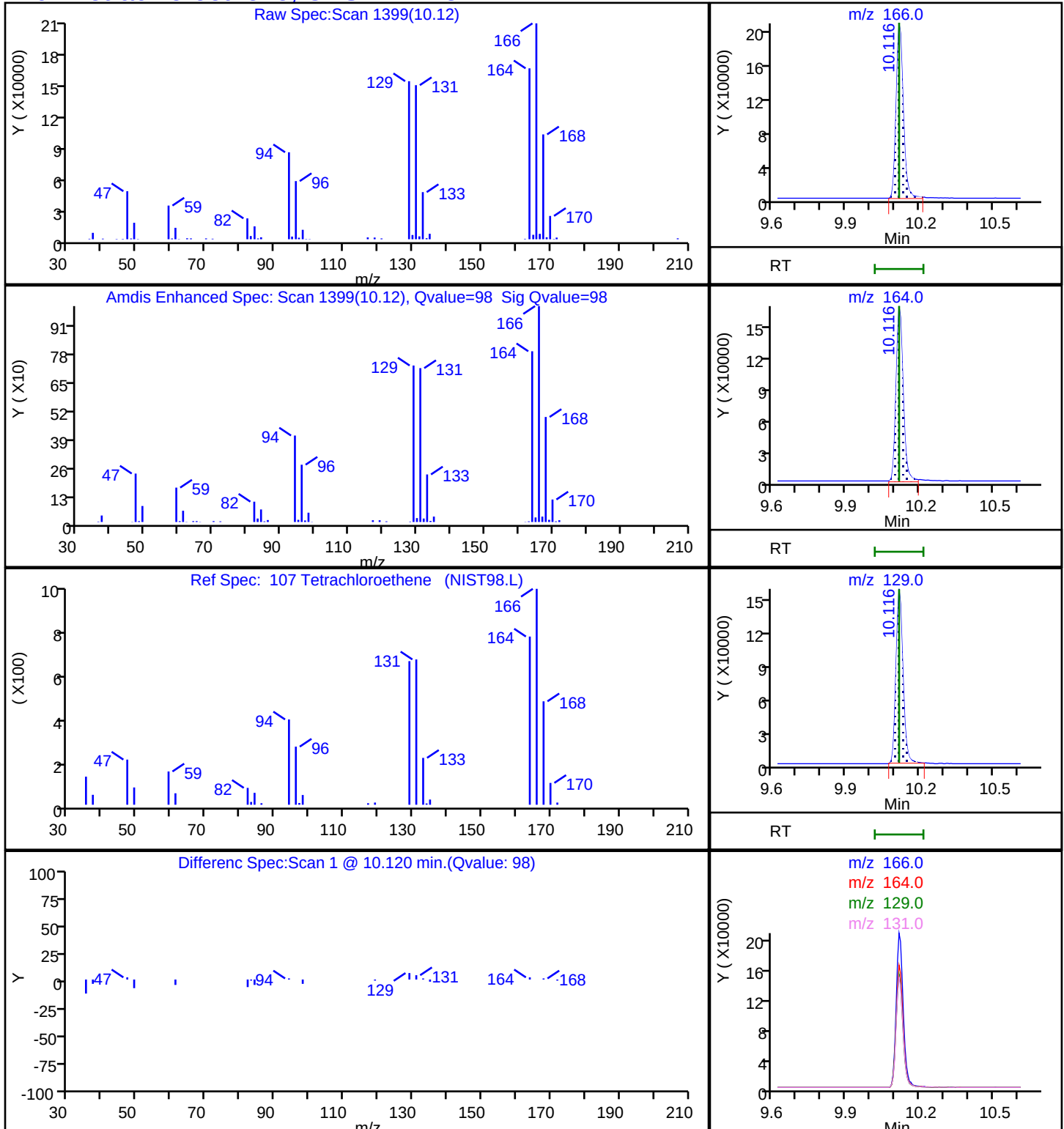
Dil. Factor: 20.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

107 Tetrachloroethene, CAS: 127-18-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-219242-1

SDG No.:

Client Sample ID: HD-COD-SW-26-0/1-0

Lab Sample ID: 410-219242-9

Matrix: Water

Lab File ID: HY07X47.D

Analysis Method: 8260D

Date Collected: 04/24/2025 10:17

Sample wt/vol: 25 (mL)

Date Analyzed: 05/08/2025 03:10

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 640992

Units: ug/L

Preparation Batch No.:

Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	0.13	J	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND	^c cn	5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.68		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	4.0		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-26-0/1-0 Lab Sample ID: 410-219242-9

Matrix: Water Lab File ID: HY07X47.D

Analysis Method: 8260D Date Collected: 04/24/2025 10:17

Sample wt/vol: 25 (mL) Date Analyzed: 05/08/2025 03:10

Soil Aliquot Vol: _____ Dilution Factor: 1

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

Purge Volume: 25.0 (mL) Heated Purge: (Y/N) N pH: _____

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

Analysis Batch No.: 640992 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.16	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		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\19094\20250507-146489.b\HY07X47.D
 Lims ID: 410-219242-A-9
 Client ID: HD-COD-SW-26-0/1-0
 Sample Type: Client
 Inject. Date: 08-May-2025 03:10:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0146489-018
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 10:09:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.032				ND	7
6 Vinyl chloride	62		2.142				ND	
9 Bromomethane	94		2.422				ND	
10 Chloroethane	64		2.507				ND	
17 1,1-Dichloroethene	96	3.281	3.282	-0.001	96	4926	0.1272	
19 Acetone	43		3.282				ND	
23 Carbon disulfide	76		3.568				ND	7
27 Methylene Chloride	84		3.885				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.885	3.928	-0.043	96	48424	50.0	
32 Methyl tert-butyl ether	73		4.263				ND	
33 trans-1,2-Dichloroethene	96		4.275				ND	
36 1,1-Dichloroethane	63	4.927	4.928	-0.001	1	2169	0.0250	
41 2-Butanone (MEK)	43		5.732				ND	
42 cis-1,2-Dichloroethene	96	5.799	5.769	0.030	1	2145	0.0415	M
48 Chlorobromomethane	128		6.104				ND	
50 Chloroform	83	6.269	6.257	0.012	94	55048	0.6812	
\$ 52 Dibromofluoromethane (Surr)	113	6.476	6.476	0.000	94	370907	10.2	
53 1,1,1-Trichloroethane	97		6.494				ND	7
56 Carbon tetrachloride	117		6.714				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.939	6.940	-0.001	47	66407	10.3	
59 Benzene	78		6.970				ND	7
60 1,2-Dichloroethane	62		7.043				ND	
* 64 Fluorobenzene (IS)	96	7.384	7.385	-0.001	98	1670498	10.0	
68 Trichloroethene	95	7.896	7.872	0.024	93	8107	0.1581	
70 1,2-Dichloropropane	63		8.208				ND	
76 Dichlorobromomethane	83		8.561				ND	7
80 cis-1,3-Dichloropropene	75		9.134				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.317				ND	
\$ 83 Toluene-d8 (Surr)	98	9.457	9.457	0.000	94	1612031	10.1	
84 Toluene	92		9.537				ND	7
85 trans-1,3-Dichloropropene	75		9.817				ND	
106 1,1,2-Trichloroethane	97		10.030				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.116	10.116	0.000	98	233471	4.03	
109 2-Hexanone	43		10.250				ND	
111 Chlorodibromomethane	129		10.414				ND	
112 Ethylene Dibromide	107		10.530				ND	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	87	1180856	10.0	
115 Chlorobenzene	112		11.000				ND	
116 1,1,1,2-Tetrachloroethane	131		11.085				ND	
117 Ethylbenzene	91		11.091				ND	
119 m-Xylene & p-Xylene	106		11.207				ND	
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.542				ND	
121 Styrene	104		11.561				ND	
122 Bromoform	173		11.719				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	11.999	11.993	0.006	91	564749	9.66	
127 1,1,2,2-Tetrachloroethane	83		12.097				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.889	12.883	0.006	95	601909	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-May-2025 10:21:54

Chrom Revision: 2.3 18-Apr-2025 15:35:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X47.D

Injection Date: 08-May-2025 03:10:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-219242-A-9

Lab Sample ID: 410-219242-9

Worklist Smp#: 18

Client ID: HD-COD-SW-26-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

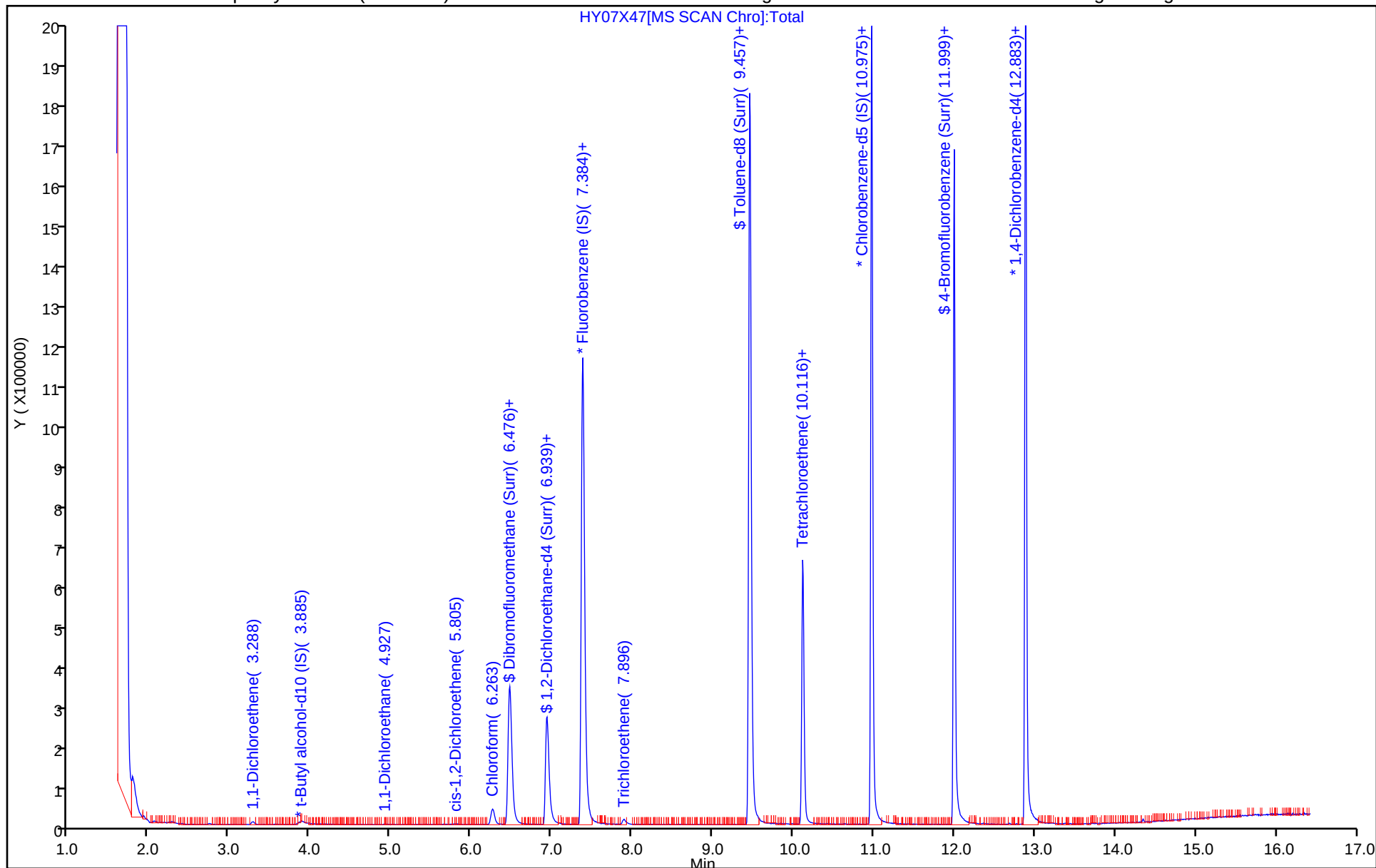
ALS Bottle#: 17

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X47.D
Lims ID: 410-219242-A-9
Client ID: HD-COD-SW-26-0/1-0
Sample Type: Client
Inject. Date: 08-May-2025 03:10:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0146489-018
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 10:09:45

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.2	102.23
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.37
\$ 83 Toluene-d8 (Surr)	10.0	10.1	100.90
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.66	96.57

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X47.D

Injection Date: 08-May-2025 03:10:30

Instrument ID: 19094

Lims ID: 410-219242-A-9

Lab Sample ID: 410-219242-9

Client ID: HD-COD-SW-26-0/1-0

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

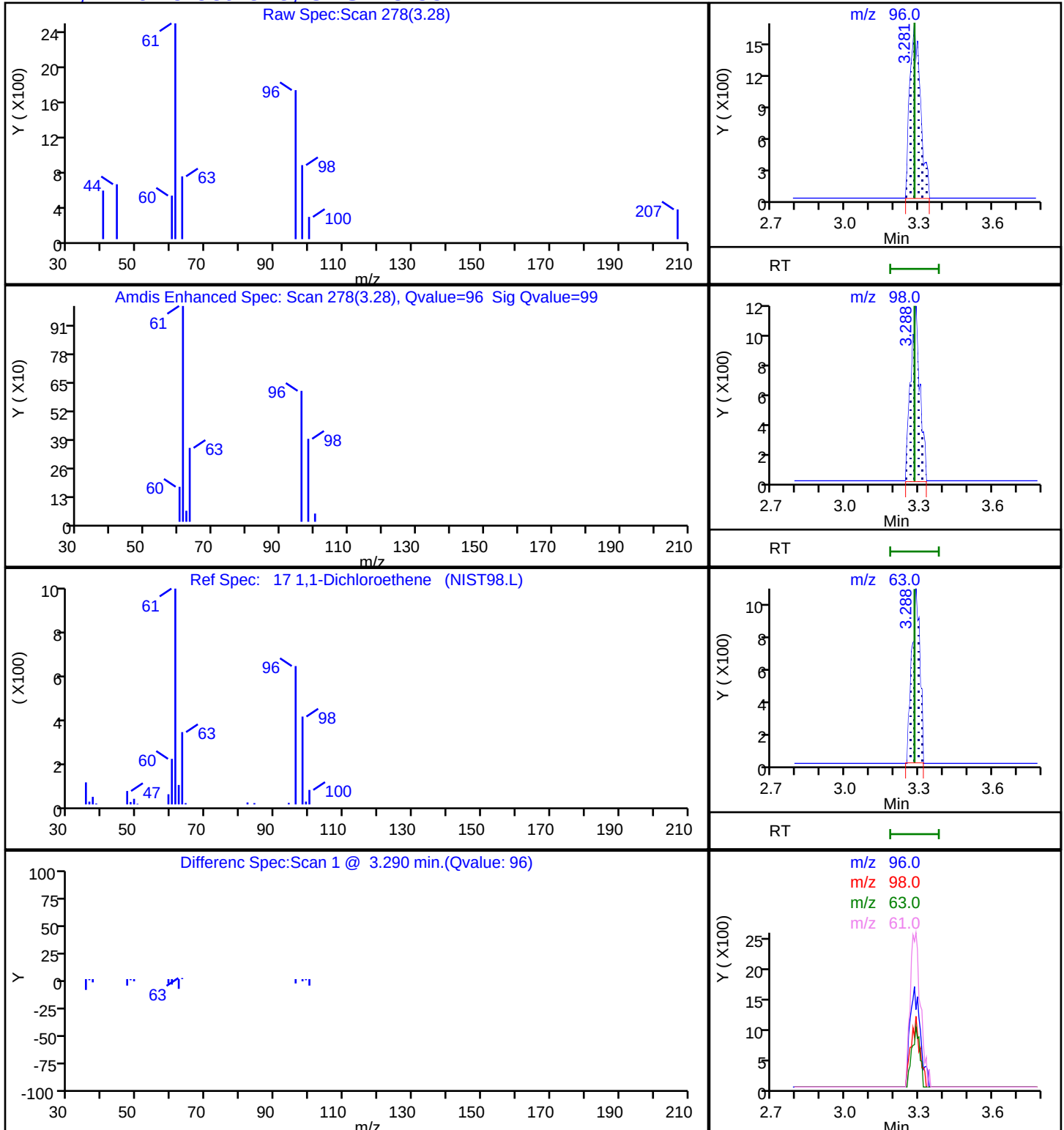
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 100m

MS Quad

17 1,1-Dichloroethene, CAS: 75-35-4

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X47.D

Injection Date: 08-May-2025 03:10:30

Instrument ID: 19094

Lims ID: 410-219242-A-9

Lab Sample ID: 410-219242-9

Client ID: HD-COD-SW-26-0/1-0

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

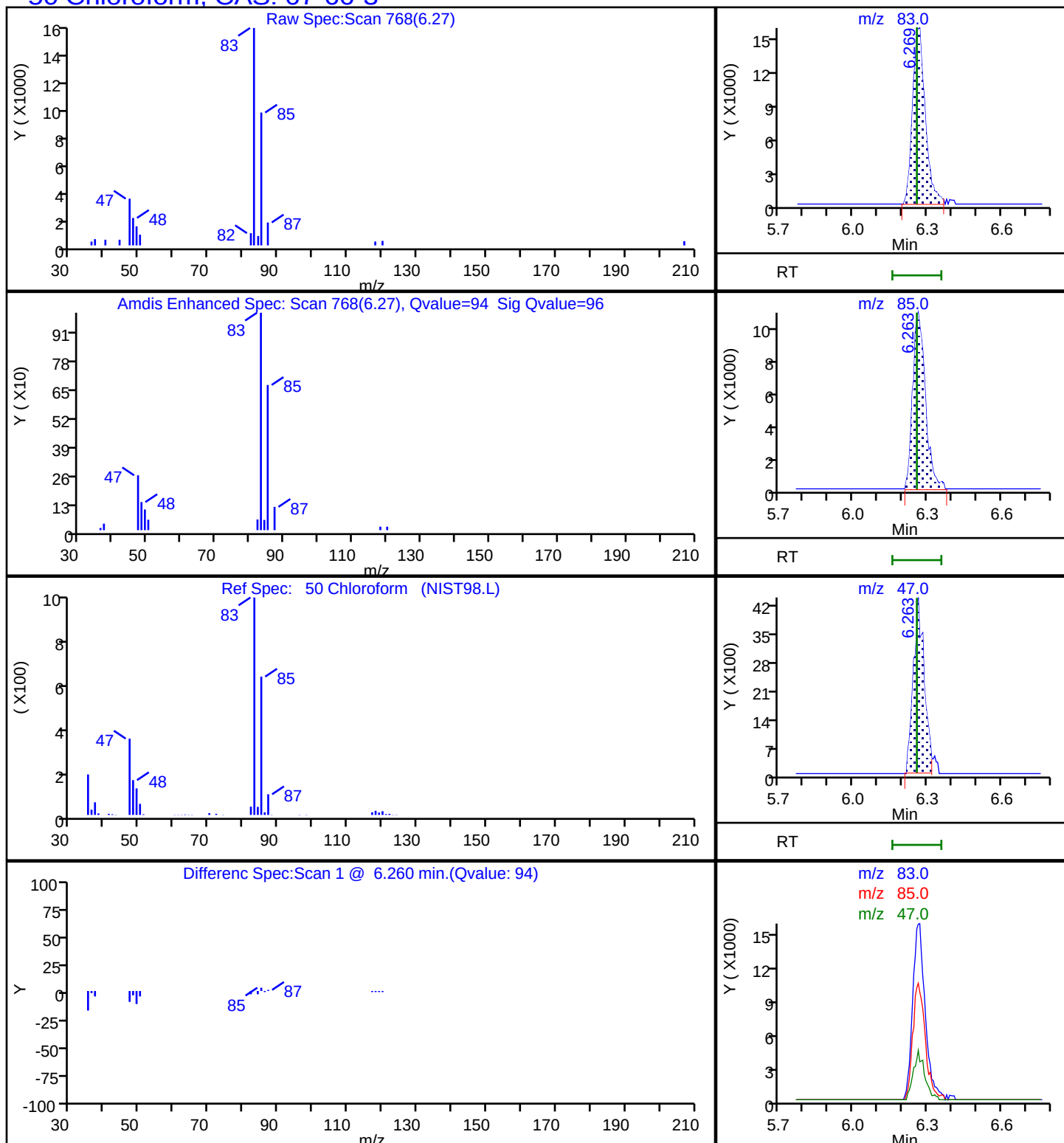
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X47.D

Injection Date: 08-May-2025 03:10:30

Instrument ID: 19094

Lims ID: 410-219242-A-9

Lab Sample ID: 410-219242-9

Client ID: HD-COD-SW-26-0/1-0

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

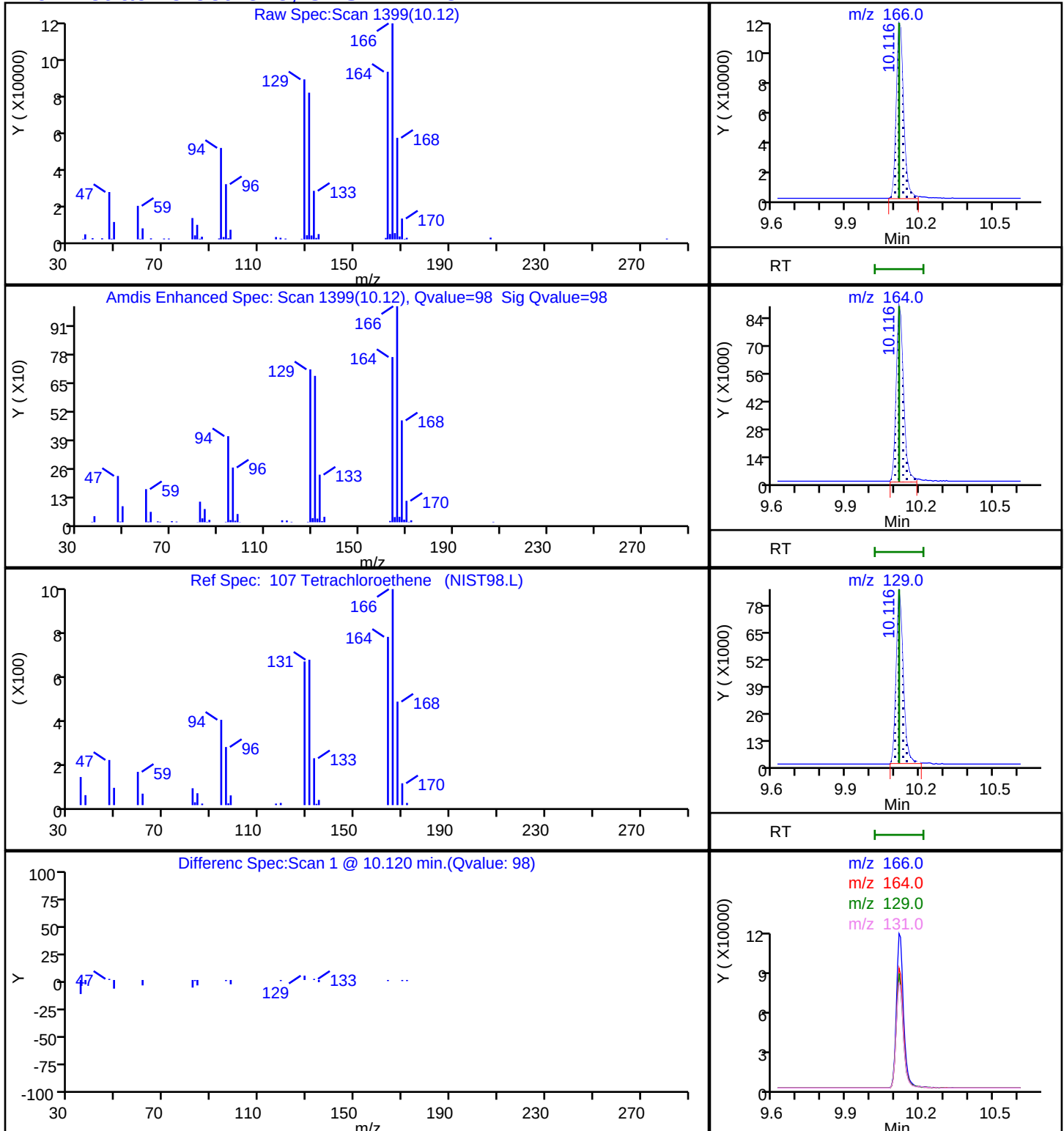
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

107 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X47.D

Injection Date: 08-May-2025 03:10:30

Instrument ID: 19094

Lims ID: 410-219242-A-9

Lab Sample ID: 410-219242-9

Client ID: HD-COD-SW-26-0/1-0

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

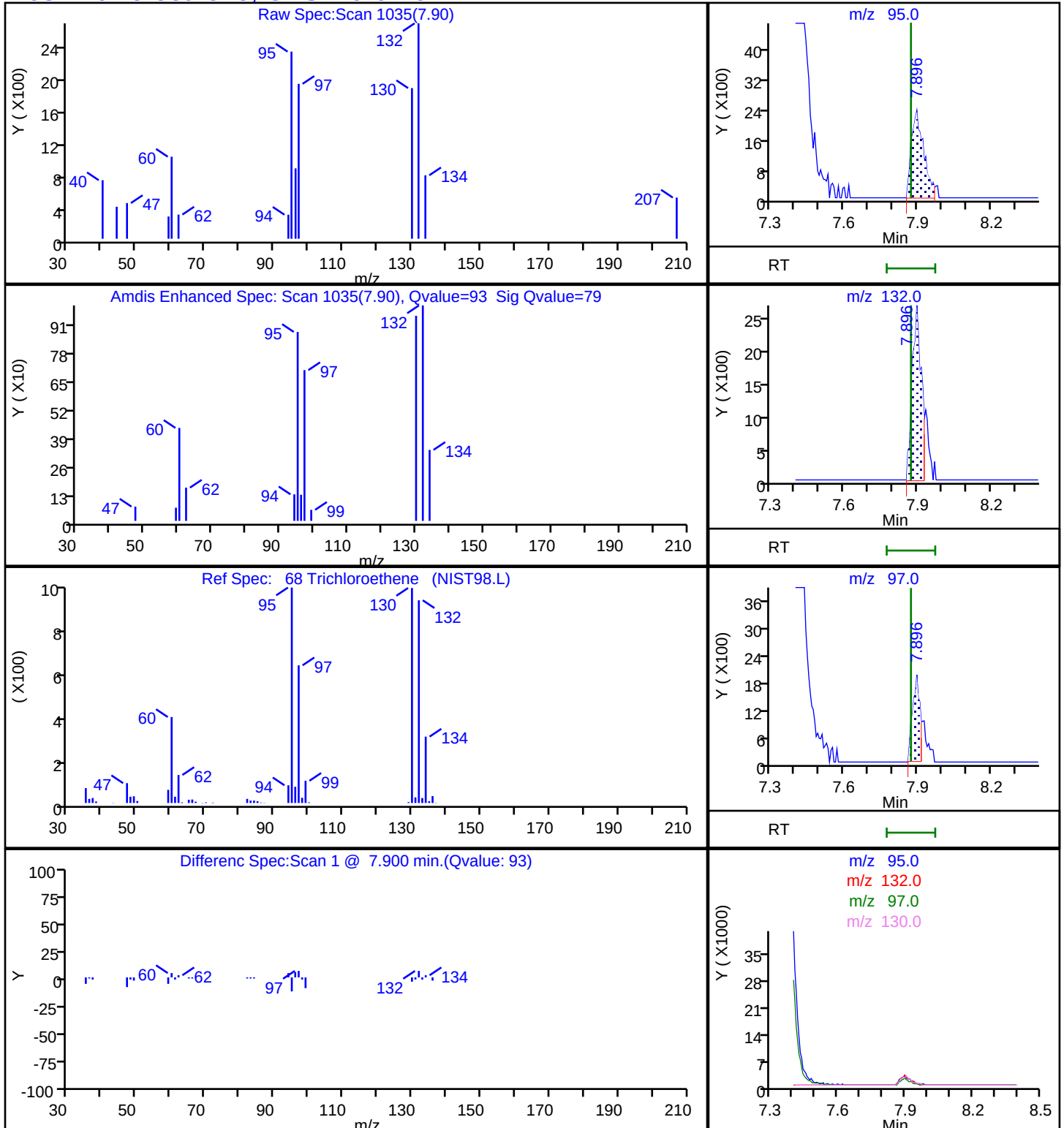
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X47.D

Injection Date: 08-May-2025 03:10:30

Instrument ID: 19094

Lims ID: 410-219242-A-9

Lab Sample ID: 410-219242-9

Client ID: HD-COD-SW-26-0/1-0

Operator ID: gaw91131

ALS Bottle#:

17

Worklist Smp#: 18

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_19094_25mL

Limit Group:

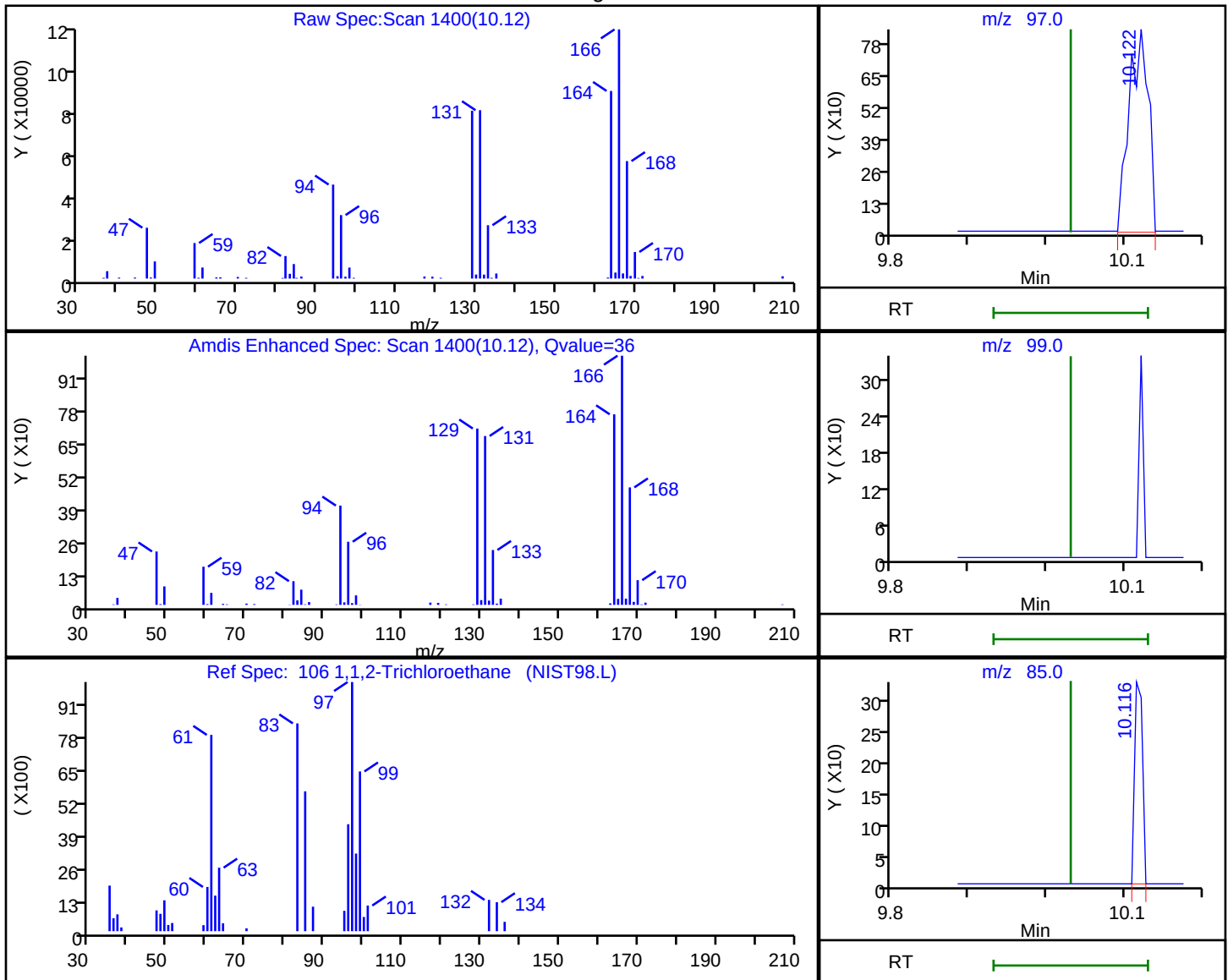
MSV - 8260C_D

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

MS Quad

106 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
10.12	97.00	1435	0.053380
10.03	99.00	0	
10.12	85.00	228	
10.11	83.00	4264	

Reviewer: N7YK, 08-May-2025 10:09:29 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

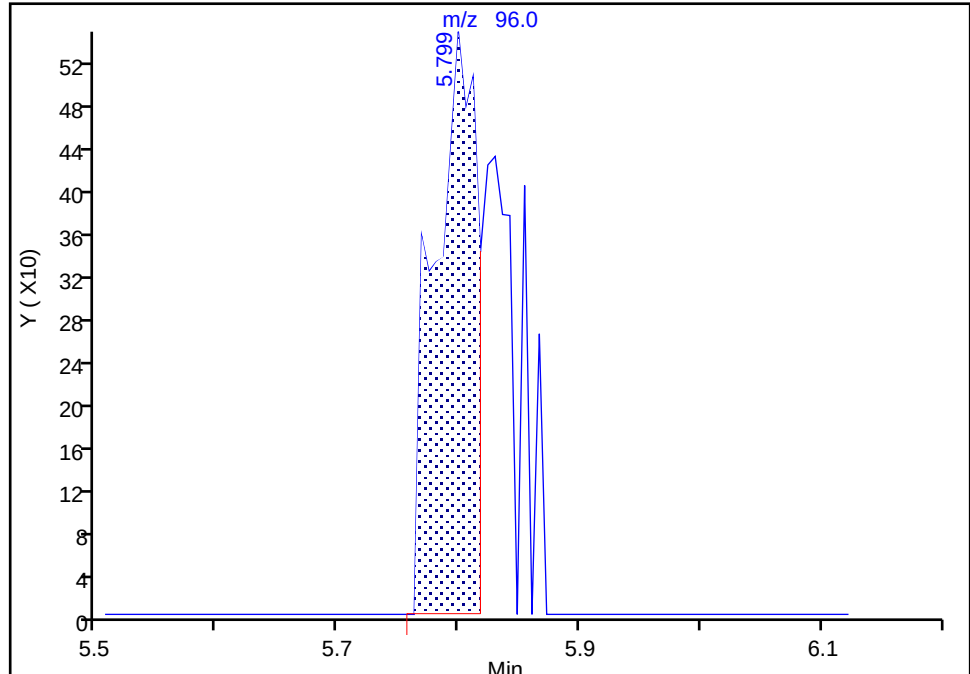
Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X47.D
Injection Date: 08-May-2025 03:10:30 Instrument ID: 19094
Lims ID: 410-219242-A-9 Lab Sample ID: 410-219242-9
Client ID: HD-COD-SW-26-0/1-0
Operator ID: gaw91131 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

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

Signal: 1

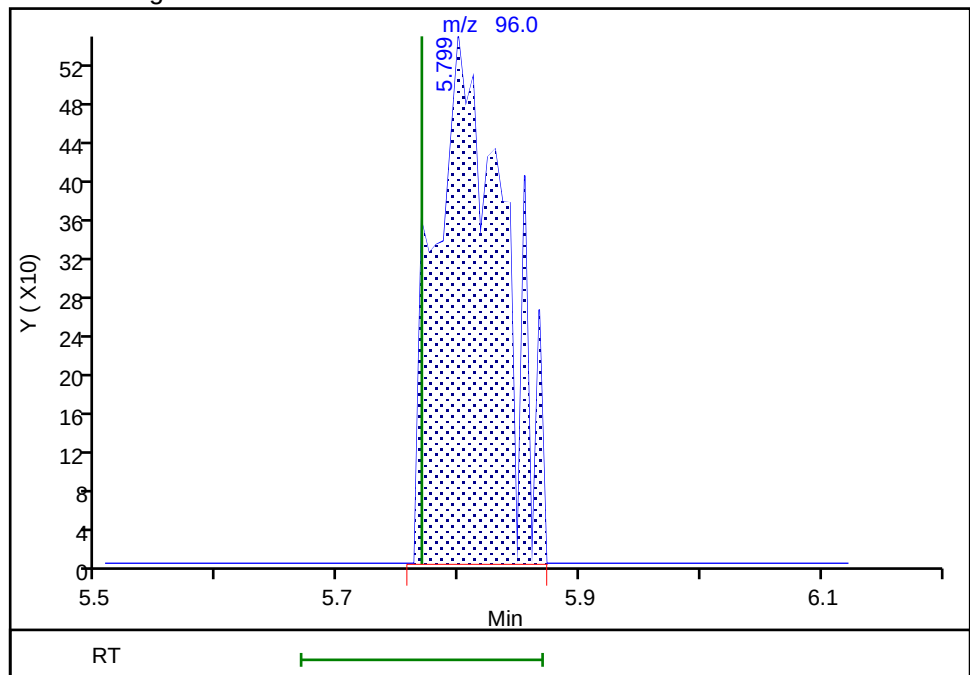
RT: 5.80
Area: 1323
Amount: 0.025573
Amount Units: ug/l

Processing Integration Results



RT: 5.80
Area: 2145
Amount: 0.041461
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 10:09:11 -04:00:00 (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.: 410-219242-1

SDG No.:

Client Sample ID: HD-COD-SW-27-0/1-0

Lab Sample ID: 410-219242-10

Matrix: Water

Lab File ID: HY07X48.D

Analysis Method: 8260D

Date Collected: 04/24/2025 10:50

Sample wt/vol: 25 (mL)

Date Analyzed: 05/08/2025 03:31

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 640992

Units: ug/L

Preparation Batch No.:

Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND	^c cn	5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	0.12	J	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.17	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.13	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-27-0/1-0 Lab Sample ID: 410-219242-10

Matrix: Water Lab File ID: HY07X48.D

Analysis Method: 8260D Date Collected: 04/24/2025 10:50

Sample wt/vol: 25 (mL) Date Analyzed: 05/08/2025 03:31

Soil Aliquot Vol: _____ Dilution Factor: 1

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

Purge Volume: 25.0 (mL) Heated Purge: (Y/N) N pH: _____

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

Analysis Batch No.: 640992 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.17	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		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\19094\20250507-146489.b\HY07X48.D
 Lims ID: 410-219242-A-10
 Client ID: HD-COD-SW-27-0/1-0
 Sample Type: Client
 Inject. Date: 08-May-2025 03:31:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0146489-019
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 10:11:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.026	2.032	-0.006	90	4781	0.0610	
6 Vinyl chloride	62		2.142				ND	7
9 Bromomethane	94		2.422				ND	
10 Chloroethane	64		2.507				ND	
17 1,1-Dichloroethene	96		3.282				ND	
19 Acetone	43		3.282				ND	
23 Carbon disulfide	76	3.562	3.568	-0.006	98	15265	0.1230	M
27 Methylene Chloride	84		3.885				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.910	3.928	-0.018	93	49790	50.0	
32 Methyl tert-butyl ether	73		4.263				ND	
33 trans-1,2-Dichloroethene	96		4.275				ND	
36 1,1-Dichloroethane	63		4.928				ND	
41 2-Butanone (MEK)	43		5.732				ND	
42 cis-1,2-Dichloroethene	96	5.787	5.769	0.018	79	6500	0.1257	
48 Chlorobromomethane	128		6.104				ND	
50 Chloroform	83	6.269	6.257	0.012	92	13769	0.1705	M
\$ 52 Dibromofluoromethane (Surr)	113	6.476	6.476	0.000	93	362963	10.0	
53 1,1,1-Trichloroethane	97		6.494				ND	
56 Carbon tetrachloride	117		6.714				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.940	6.940	0.000	49	63612	9.91	
59 Benzene	78		6.970				ND	7
60 1,2-Dichloroethane	62		7.043				ND	
* 64 Fluorobenzene (IS)	96	7.385	7.385	0.000	99	1669502	10.0	
68 Trichloroethene	95	7.897	7.872	0.025	93	8719	0.1701	M
70 1,2-Dichloropropane	63		8.208				ND	
76 Dichlorobromomethane	83		8.561				ND	7
80 cis-1,3-Dichloropropene	75		9.134				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.317				ND	
\$ 83 Toluene-d8 (Surr)	98	9.457	9.457	0.000	94	1619313	10.1	
84 Toluene	92	9.543	9.537	0.006	95	7719	0.0616	
85 trans-1,3-Dichloropropene	75		9.817				ND	
106 1,1,2-Trichloroethane	97		10.030				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.122	10.116	0.006	94	8057	0.1389	M
109 2-Hexanone	43		10.250				ND	
111 Chlorodibromomethane	129		10.414				ND	
112 Ethylene Dibromide	107		10.530				ND	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	87	1181019	10.0	
115 Chlorobenzene	112		11.000				ND	
116 1,1,1,2-Tetrachloroethane	131		11.085				ND	
117 Ethylbenzene	91		11.091				ND	7
119 m-Xylene & p-Xylene	106		11.207				ND	
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.542				ND	
121 Styrene	104		11.561				ND	
122 Bromoform	173		11.719				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.000	11.993	0.007	90	578649	9.89	
127 1,1,2,2-Tetrachloroethane	83		12.097				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.884	12.883	0.001	96	599675	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-May-2025 10:22:00

Chrom Revision: 2.3 18-Apr-2025 15:35:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X48.D

Injection Date: 08-May-2025 03:31:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-219242-A-10

Lab Sample ID: 410-219242-10

Worklist Smp#: 19

Client ID: HD-COD-SW-27-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

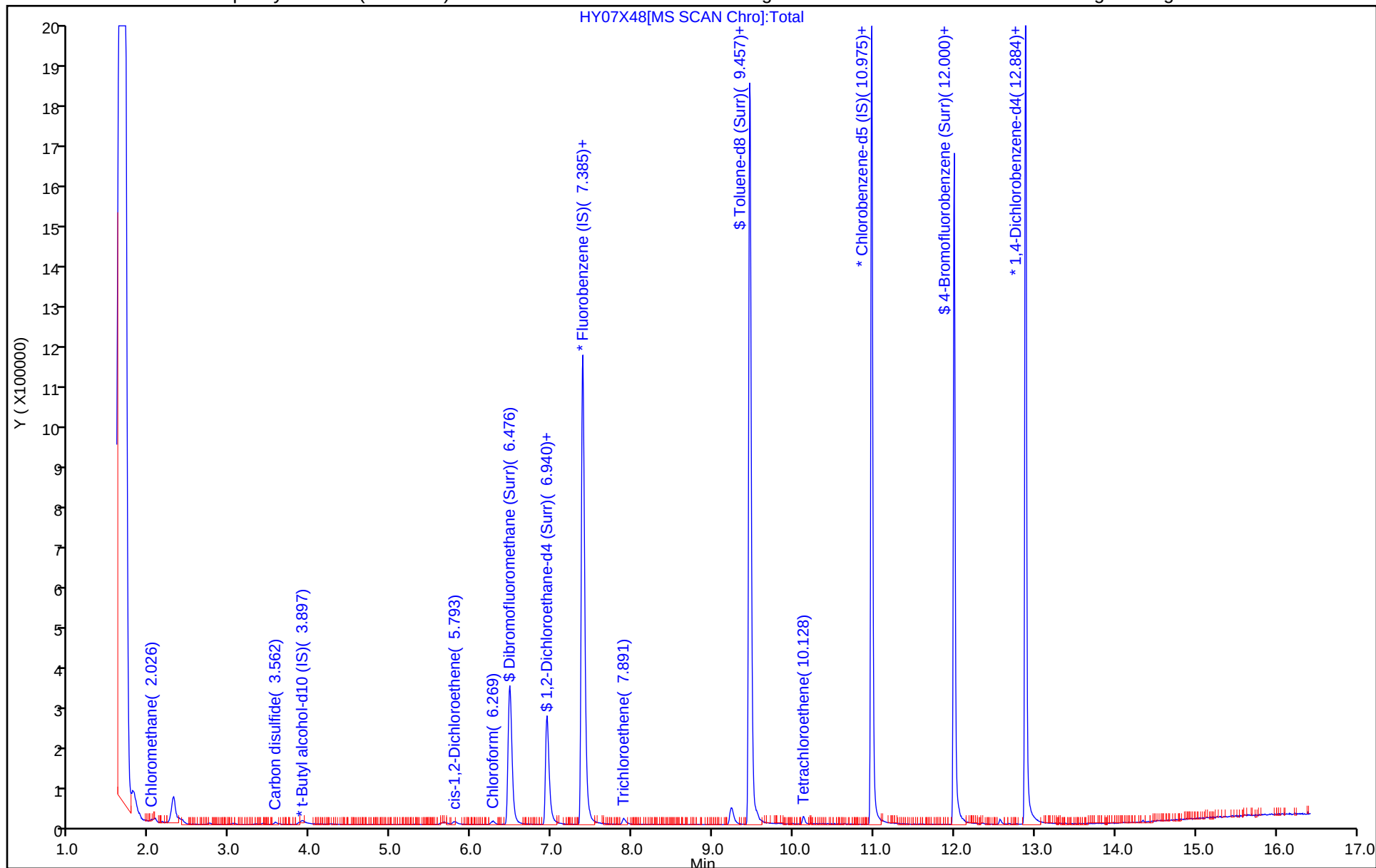
ALS Bottle#: 18

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X48.D
Lims ID: 410-219242-A-10
Client ID: HD-COD-SW-27-0/1-0
Sample Type: Client
Inject. Date: 08-May-2025 03:31:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0146489-019
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 10:11:39

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.0	100.10
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.91	99.08
\$ 83 Toluene-d8 (Surr)	10.0	10.1	101.34
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.89	98.94

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X48.D

Injection Date: 08-May-2025 03:31:30

Instrument ID: 19094

Lims ID: 410-219242-A-10

Lab Sample ID: 410-219242-10

Client ID: HD-COD-SW-27-0/1-0

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

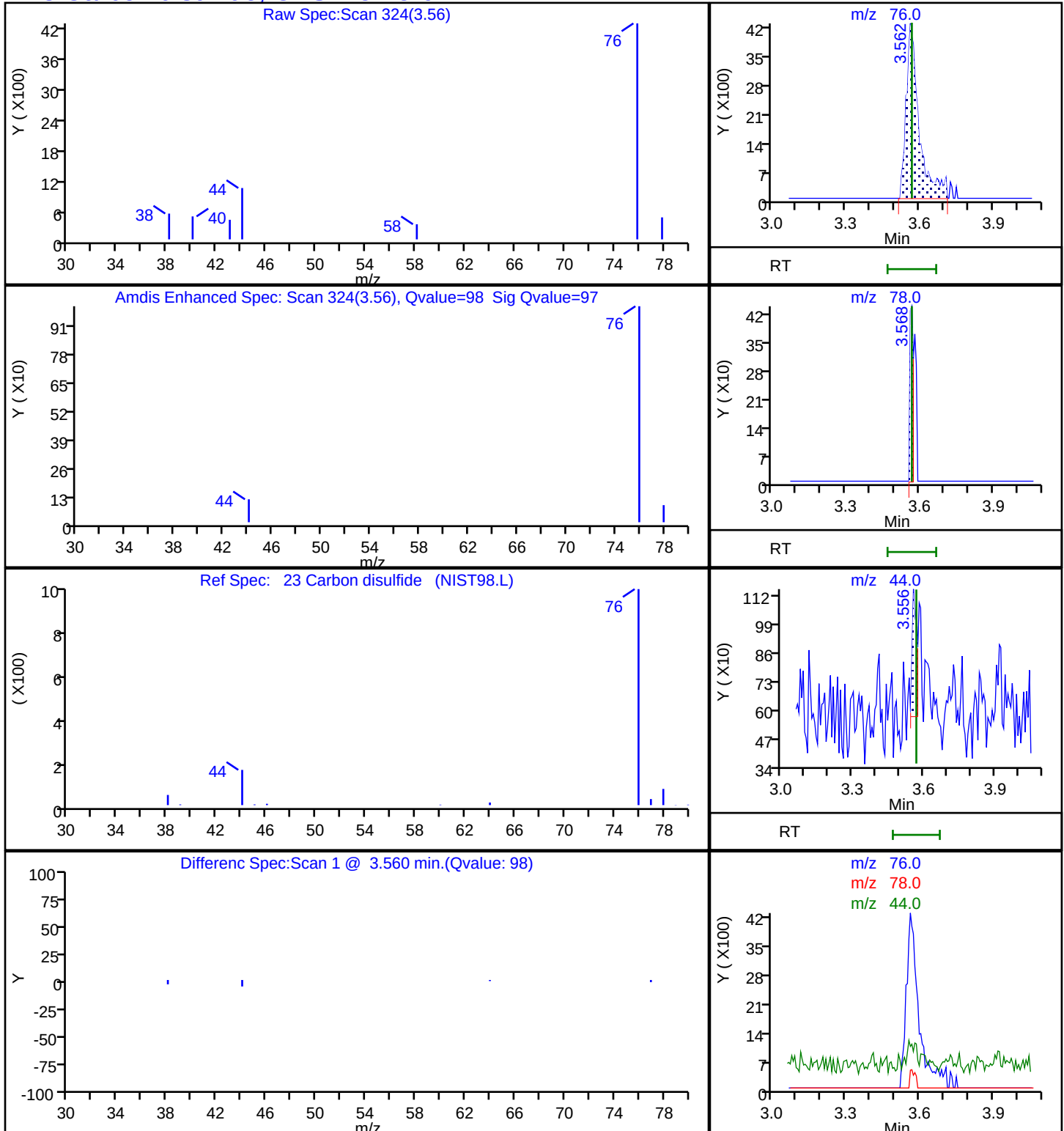
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 100m

MS Quad

23 Carbon disulfide, CAS: 75-15-0

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X48.D

Injection Date: 08-May-2025 03:31:30

Instrument ID: 19094

Lims ID: 410-219242-A-10

Lab Sample ID: 410-219242-10

Client ID: HD-COD-SW-27-0/1-0

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

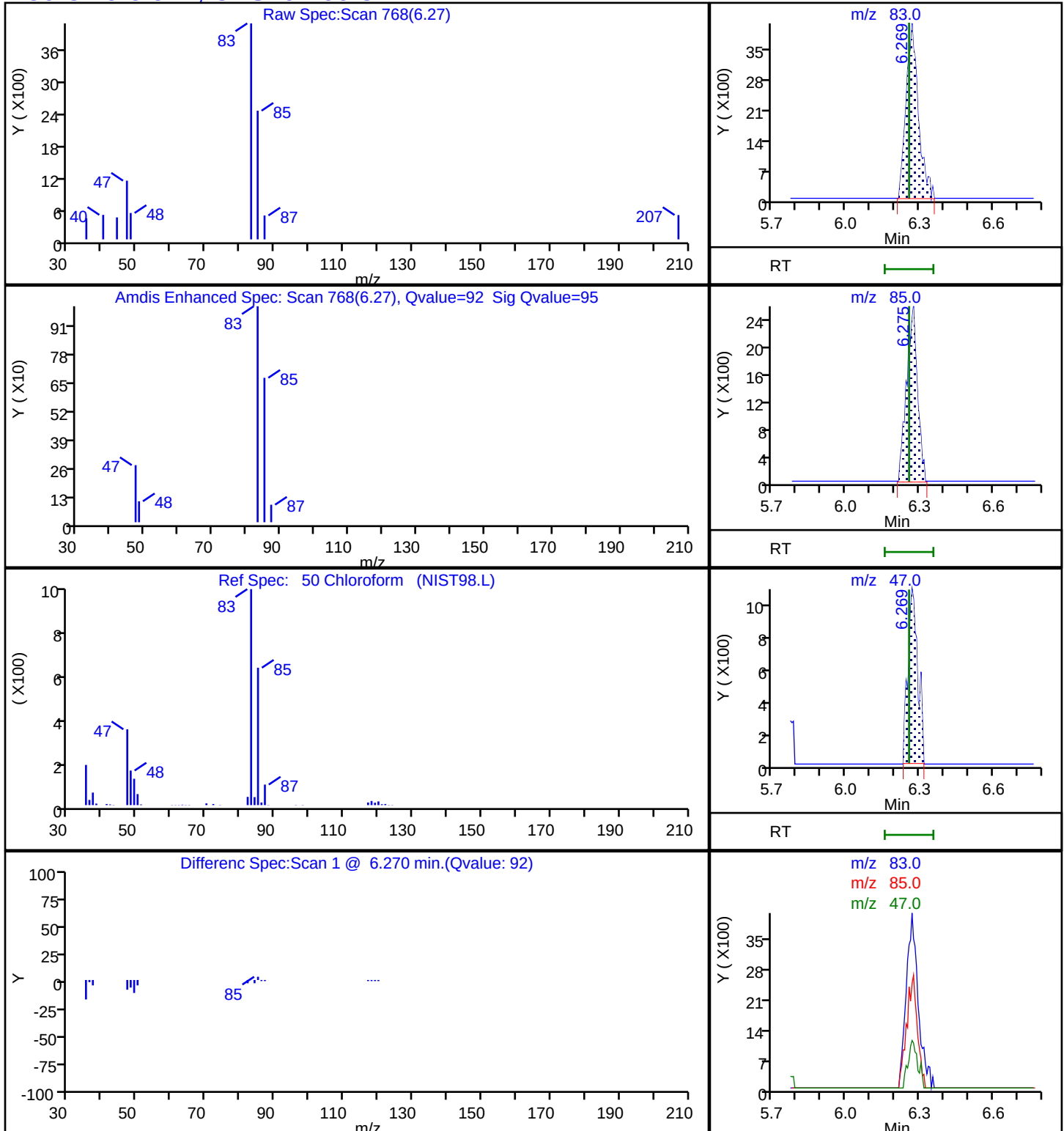
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X48.D

Injection Date: 08-May-2025 03:31:30

Instrument ID: 19094

Lims ID: 410-219242-A-10

Lab Sample ID: 410-219242-10

Client ID: HD-COD-SW-27-0/1-0

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

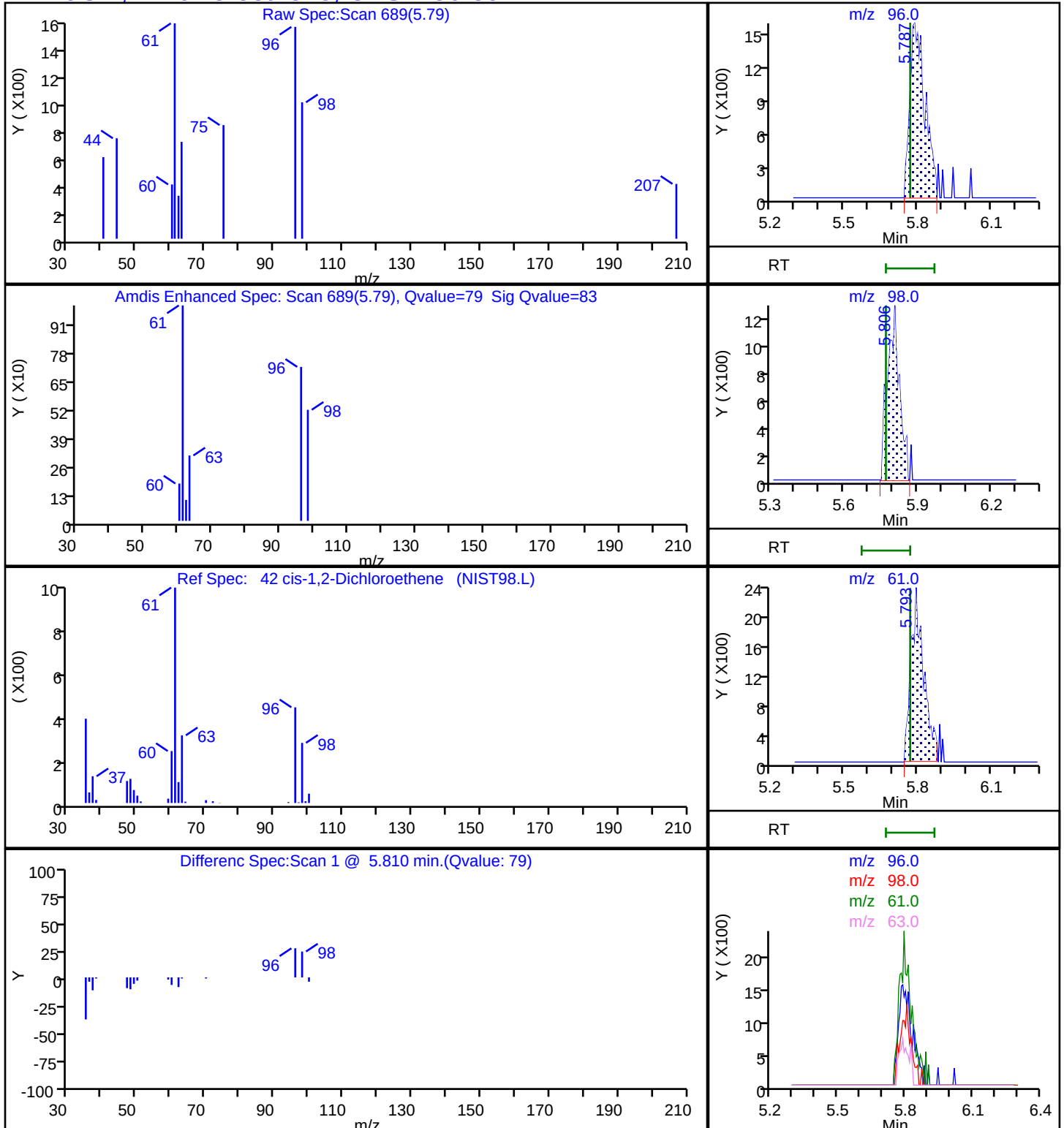
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X48.D

Injection Date: 08-May-2025 03:31:30

Instrument ID: 19094

Lims ID: 410-219242-A-10

Lab Sample ID: 410-219242-10

Client ID: HD-COD-SW-27-0/1-0

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

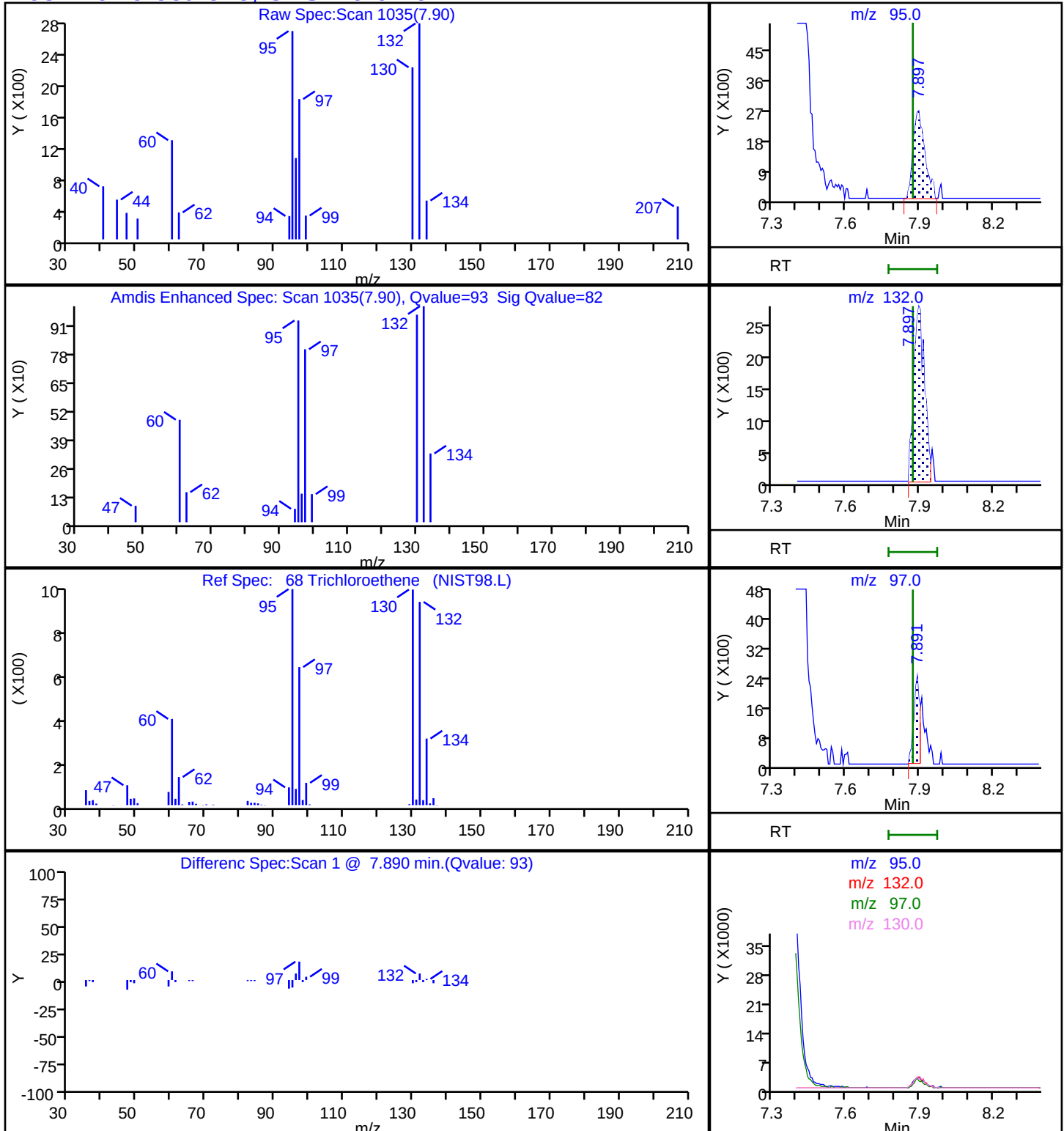
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) x 100m

MS Quad

68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

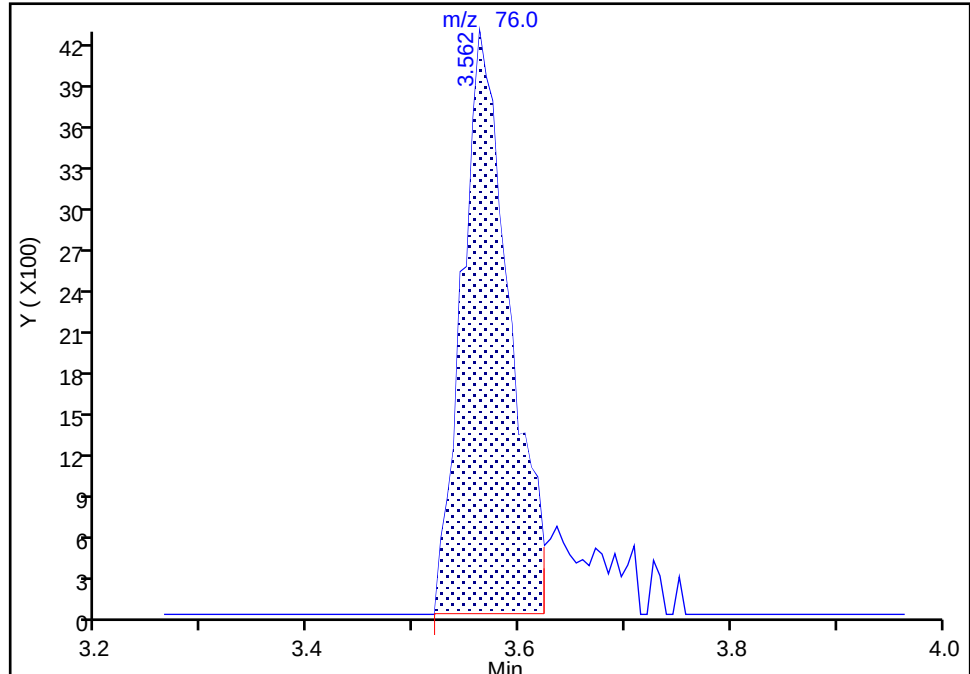
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Injection Date: 08-May-2025 03:31:30 Instrument ID: 19094
Lims ID: 410-219242-A-10 Lab Sample ID: 410-219242-10
Client ID: HD-COD-SW-27-0/1-0
Operator ID: gaw91131 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Carbon disulfide, CAS: 75-15-0

Signal: 1

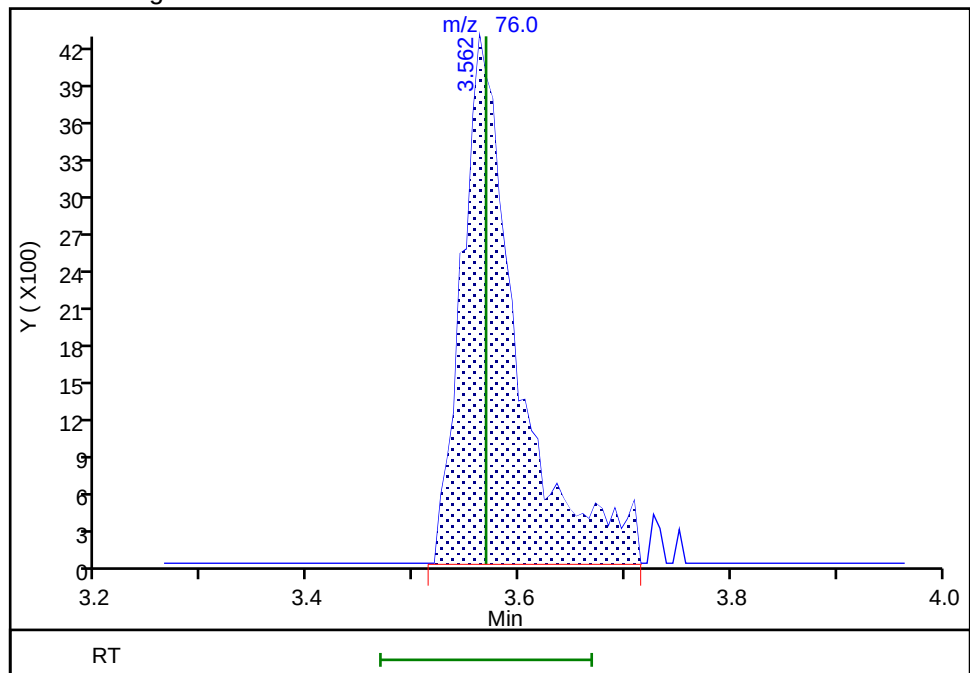
RT: 3.56
Area: 13059
Amount: 0.105197
Amount Units: ug/l

Processing Integration Results



RT: 3.56
Area: 15265
Amount: 0.122967
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 10:10:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

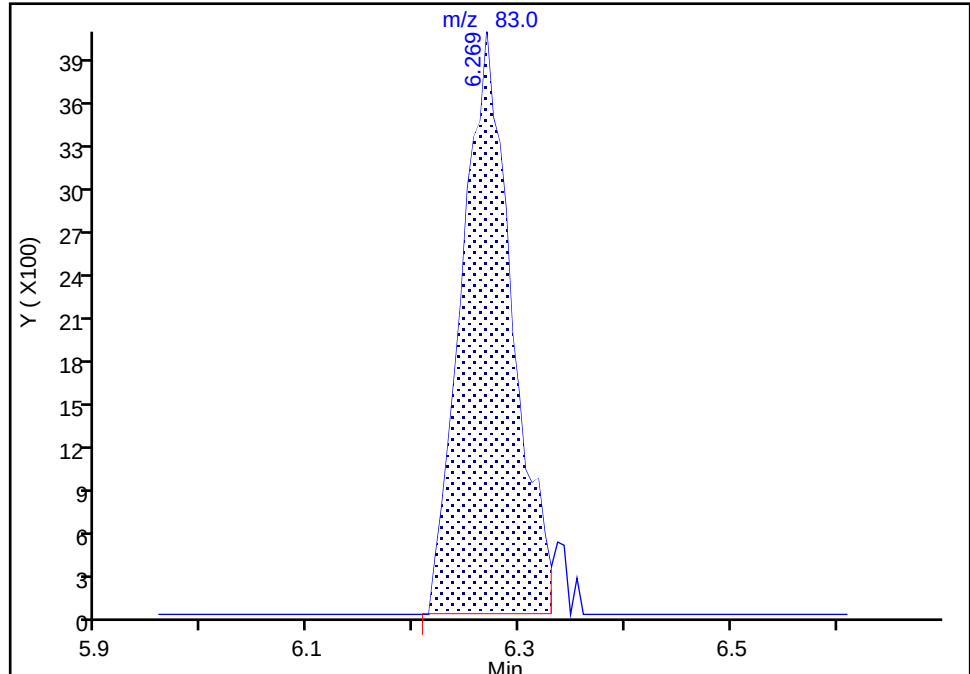
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Injection Date: 08-May-2025 03:31:30 Instrument ID: 19094
Lims ID: 410-219242-A-10 Lab Sample ID: 410-219242-10
Client ID: HD-COD-SW-27-0/1-0
Operator ID: gaw91131 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

50 Chloroform, CAS: 67-66-3

Signal: 1

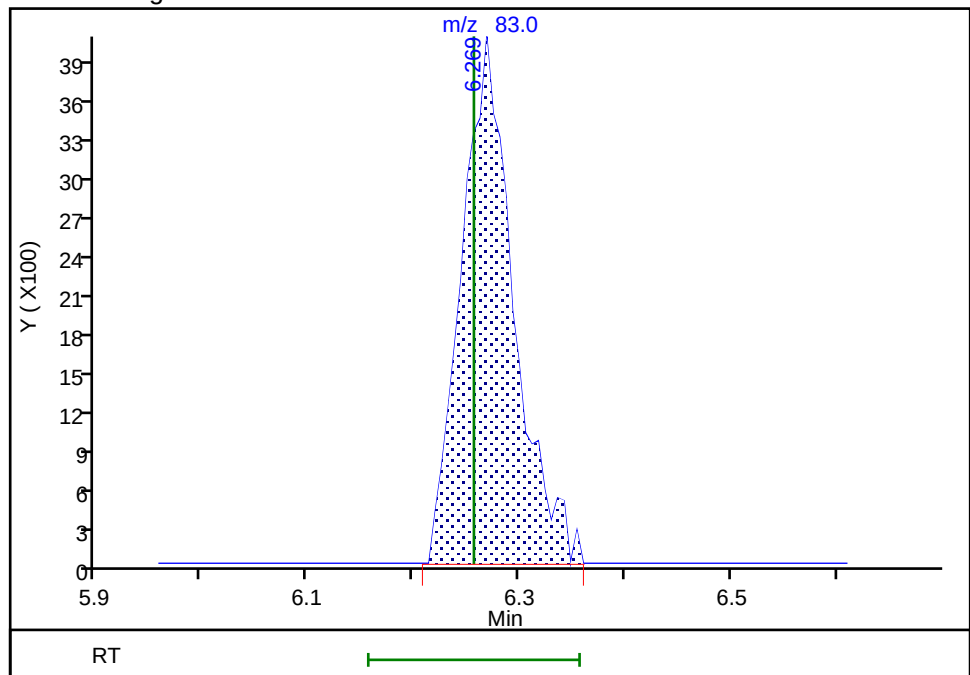
RT: 6.27
Area: 13321
Amount: 0.164933
Amount Units: ug/l

Processing Integration Results



RT: 6.27
Area: 13769
Amount: 0.170480
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 10:11:12 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

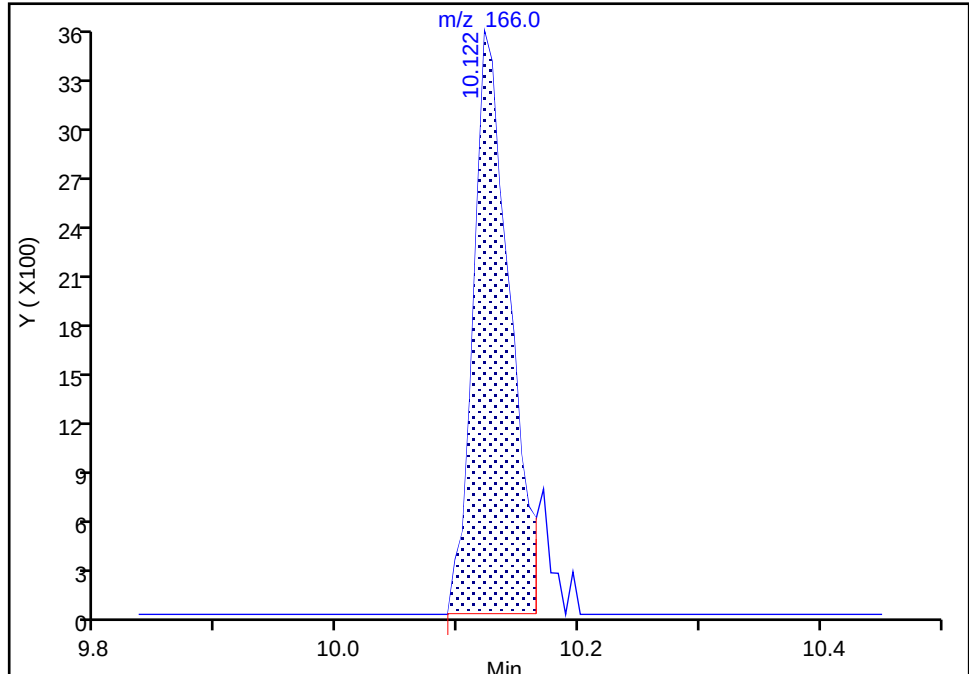
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Injection Date: 08-May-2025 03:31:30 Instrument ID: 19094
Lims ID: 410-219242-A-10 Lab Sample ID: 410-219242-10
Client ID: HD-COD-SW-27-0/1-0
Operator ID: gaw91131 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

107 Tetrachloroethene, CAS: 127-18-4

Signal: 1

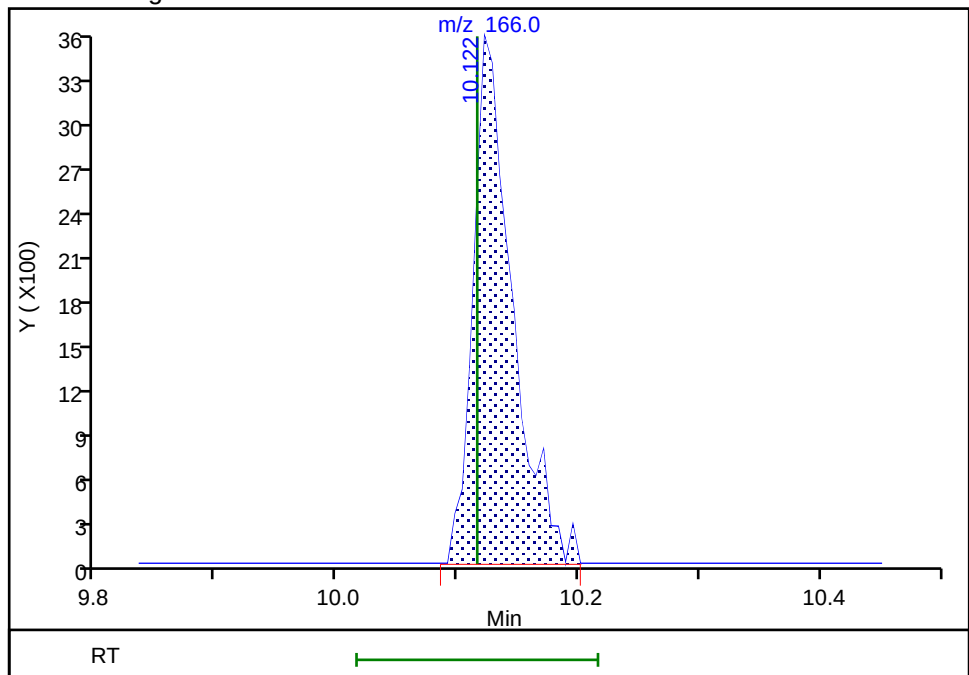
RT: 10.12
Area: 7493
Amount: 0.129174
Amount Units: ug/l

Processing Integration Results



RT: 10.12
Area: 8057
Amount: 0.138896
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 10:11:27 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

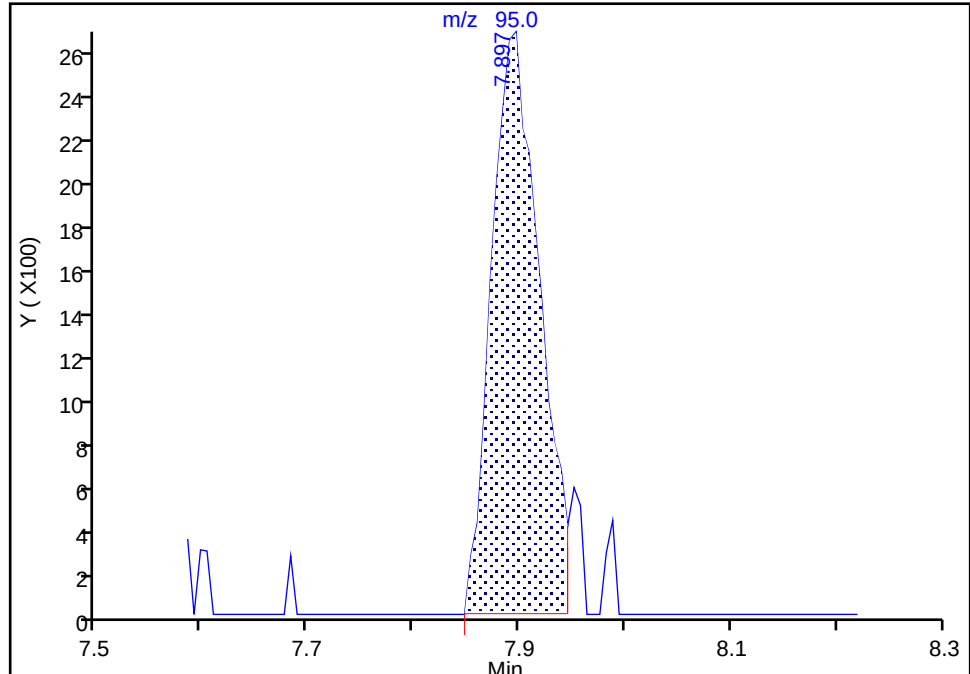
Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X48.D
Injection Date: 08-May-2025 03:31:30 Instrument ID: 19094
Lims ID: 410-219242-A-10 Lab Sample ID: 410-219242-10
Client ID: HD-COD-SW-27-0/1-0
Operator ID: gaw91131 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

68 Trichloroethene, CAS: 79-01-6

Signal: 1

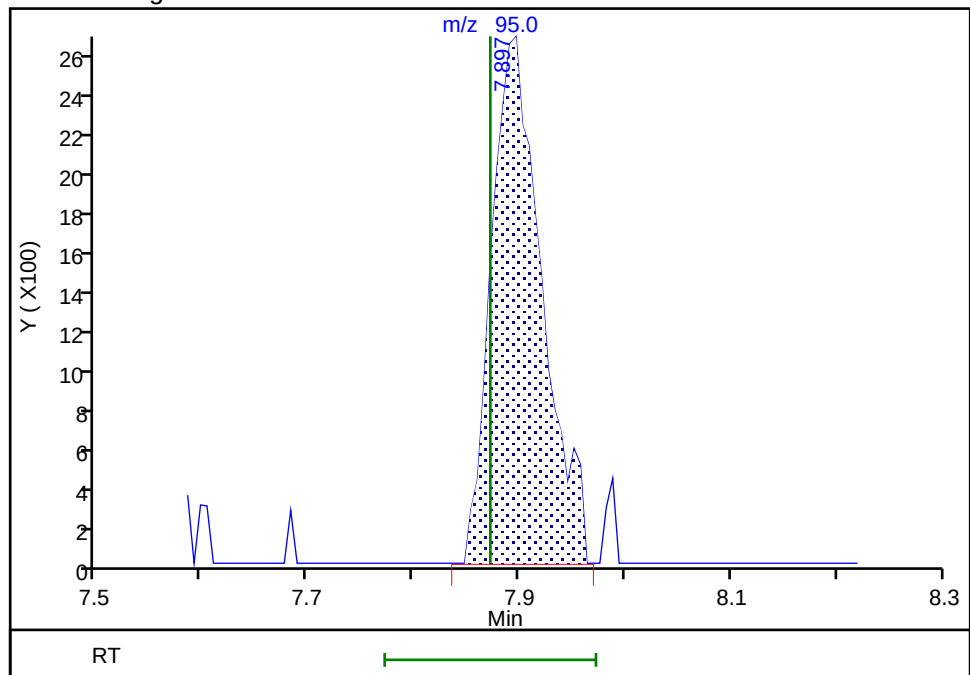
RT: 7.90
Area: 8331
Amount: 0.162539
Amount Units: ug/l

Processing Integration Results



RT: 7.90
Area: 8719
Amount: 0.170109
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 10:11:19 -04:00:00 (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.: 410-219242-1

SDG No.:

Client Sample ID: HD-COD-SW-28-0/1-0

Lab Sample ID: 410-219242-11

Matrix: Water

Lab File ID: HY07X49.D

Analysis Method: 8260D

Date Collected: 04/24/2025 12:25

Sample wt/vol: 25 (mL)

Date Analyzed: 05/08/2025 03:52

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 640992

Units: ug/L

Preparation Batch No.:

Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND	^c cn	5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.12	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.091	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.27	J	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-28-0/1-0 Lab Sample ID: 410-219242-11

Matrix: Water Lab File ID: HY07X49.D

Analysis Method: 8260D Date Collected: 04/24/2025 12:25

Sample wt/vol: 25 (mL) Date Analyzed: 05/08/2025 03:52

Soil Aliquot Vol: _____ Dilution Factor: 1

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

Purge Volume: 25.0 (mL) Heated Purge: (Y/N) N pH: _____

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

Analysis Batch No.: 640992 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	0.11	J	0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.16	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

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)	101		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\19094\20250507-146489.b\HY07X49.D
 Lims ID: 410-219242-A-11
 Client ID: HD-COD-SW-28-0/1-0
 Sample Type: Client
 Inject. Date: 08-May-2025 03:52:30 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0146489-020
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 10:12:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.032	2.032	0.000	26	3739	0.0473	
6 Vinyl chloride	62		2.142				ND	
9 Bromomethane	94		2.422				ND	
10 Chloroethane	64		2.507				ND	
17 1,1-Dichloroethene	96		3.282				ND	
19 Acetone	43		3.282				ND	
23 Carbon disulfide	76	3.568	3.568	0.000	95	7356	0.0588	M
27 Methylene Chloride	84		3.885				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.904	3.928	-0.024	96	48567	50.0	
32 Methyl tert-butyl ether	73		4.263				ND	
33 trans-1,2-Dichloroethene	96		4.275				ND	
36 1,1-Dichloroethane	63		4.928				ND	
41 2-Butanone (MEK)	43		5.732				ND	
42 cis-1,2-Dichloroethene	96	5.806	5.769	0.037	79	4722	0.0906	
48 Chlorobromomethane	128		6.104				ND	
50 Chloroform	83	6.269	6.257	0.012	91	10108	0.1241	
\$ 52 Dibromofluoromethane (Surr)	113	6.482	6.476	0.006	94	370342	10.1	
53 1,1,1-Trichloroethane	97		6.494				ND	7
56 Carbon tetrachloride	117		6.714				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.946	6.940	0.006	46	66313	10.2	
59 Benzene	78		6.970				ND	7
60 1,2-Dichloroethane	62		7.043				ND	
* 64 Fluorobenzene (IS)	96	7.385	7.385	0.000	98	1683466	10.0	
68 Trichloroethene	95	7.891	7.872	0.019	89	8123	0.1572	M
70 1,2-Dichloropropane	63		8.208				ND	
76 Dichlorobromomethane	83		8.561				ND	7
80 cis-1,3-Dichloropropene	75		9.134				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.317				ND	
\$ 83 Toluene-d8 (Surr)	98	9.463	9.457	0.006	94	1649481	10.1	
84 Toluene	92	9.555	9.537	0.018	97	14119	0.1102	
85 trans-1,3-Dichloropropene	75		9.817				ND	
106 1,1,2-Trichloroethane	97		10.030				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.128	10.116	0.012	97	15929	0.2686	M
109 2-Hexanone	43		10.250				ND	
111 Chlorodibromomethane	129		10.414				ND	
112 Ethylene Dibromide	107		10.530				ND	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	87	1207283	10.0	
115 Chlorobenzene	112		11.000				ND	
116 1,1,1,2-Tetrachloroethane	131		11.085				ND	
117 Ethylbenzene	91		11.091				ND	7
119 m-Xylene & p-Xylene	106		11.207				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.542				ND	
121 Styrene	104		11.561				ND	
122 Bromoform	173		11.719				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.000	11.993	0.007	91	572844	9.58	
127 1,1,2,2-Tetrachloroethane	83		12.097				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.884	12.883	0.001	95	622119	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-May-2025 10:22:05

Chrom Revision: 2.3 18-Apr-2025 15:35:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X49.D

Injection Date: 08-May-2025 03:52:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-219242-A-11

Lab Sample ID: 410-219242-11

Worklist Smp#: 20

Client ID: HD-COD-SW-28-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

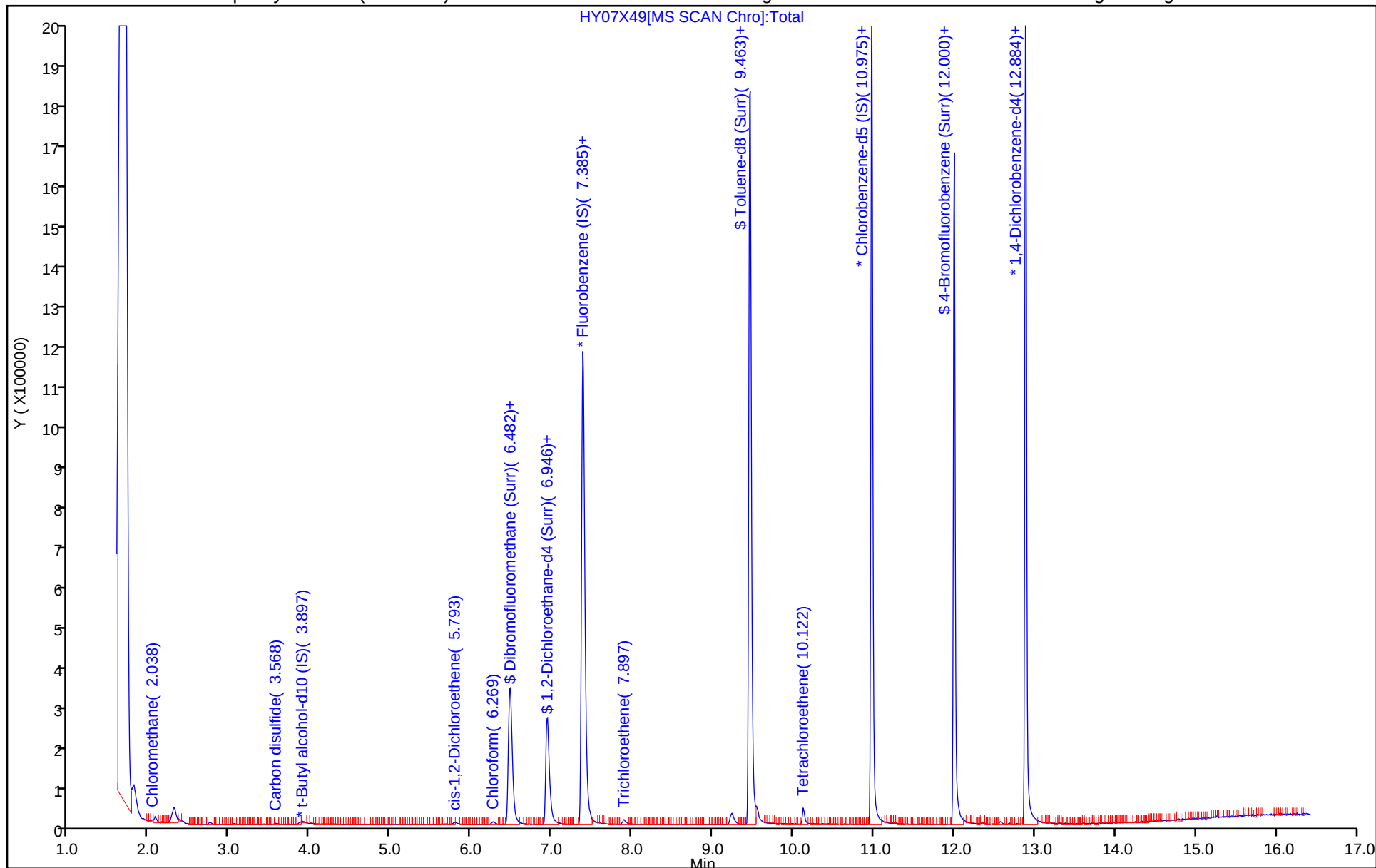
ALS Bottle#: 19

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X49.D
Lims ID: 410-219242-A-11
Client ID: HD-COD-SW-28-0/1-0
Sample Type: Client
Inject. Date: 08-May-2025 03:52:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0146489-020
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 10:12:44

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.1	101.29
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.43
\$ 83 Toluene-d8 (Surr)	10.0	10.1	100.98
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.58	95.81

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X49.D

Injection Date: 08-May-2025 03:52:30

Instrument ID: 19094

Lims ID: 410-219242-A-11

Lab Sample ID: 410-219242-11

Client ID: HD-COD-SW-28-0/1-0

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

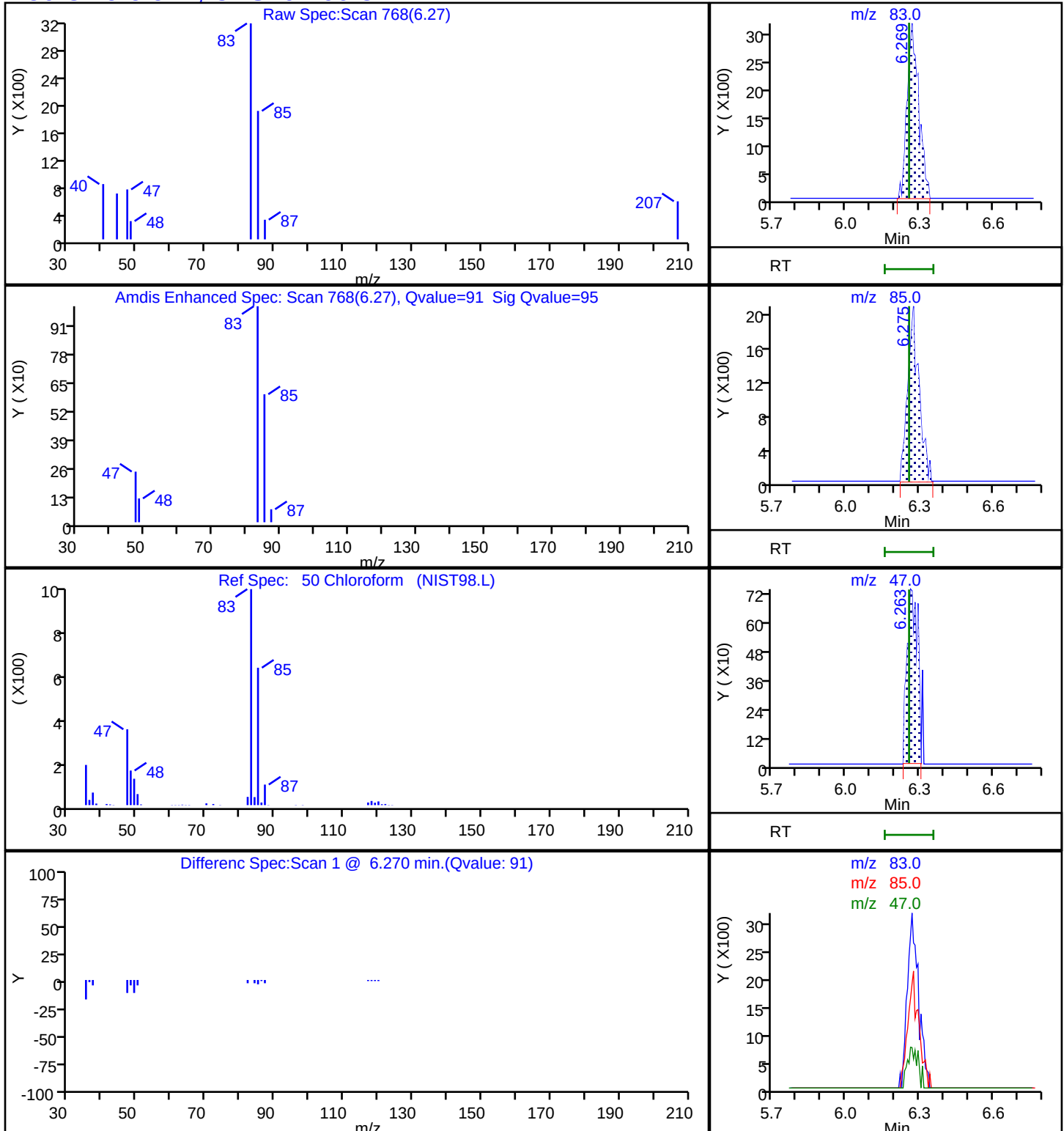
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X49.D

Injection Date: 08-May-2025 03:52:30

Instrument ID: 19094

Lims ID: 410-219242-A-11

Lab Sample ID: 410-219242-11

Client ID: HD-COD-SW-28-0/1-0

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

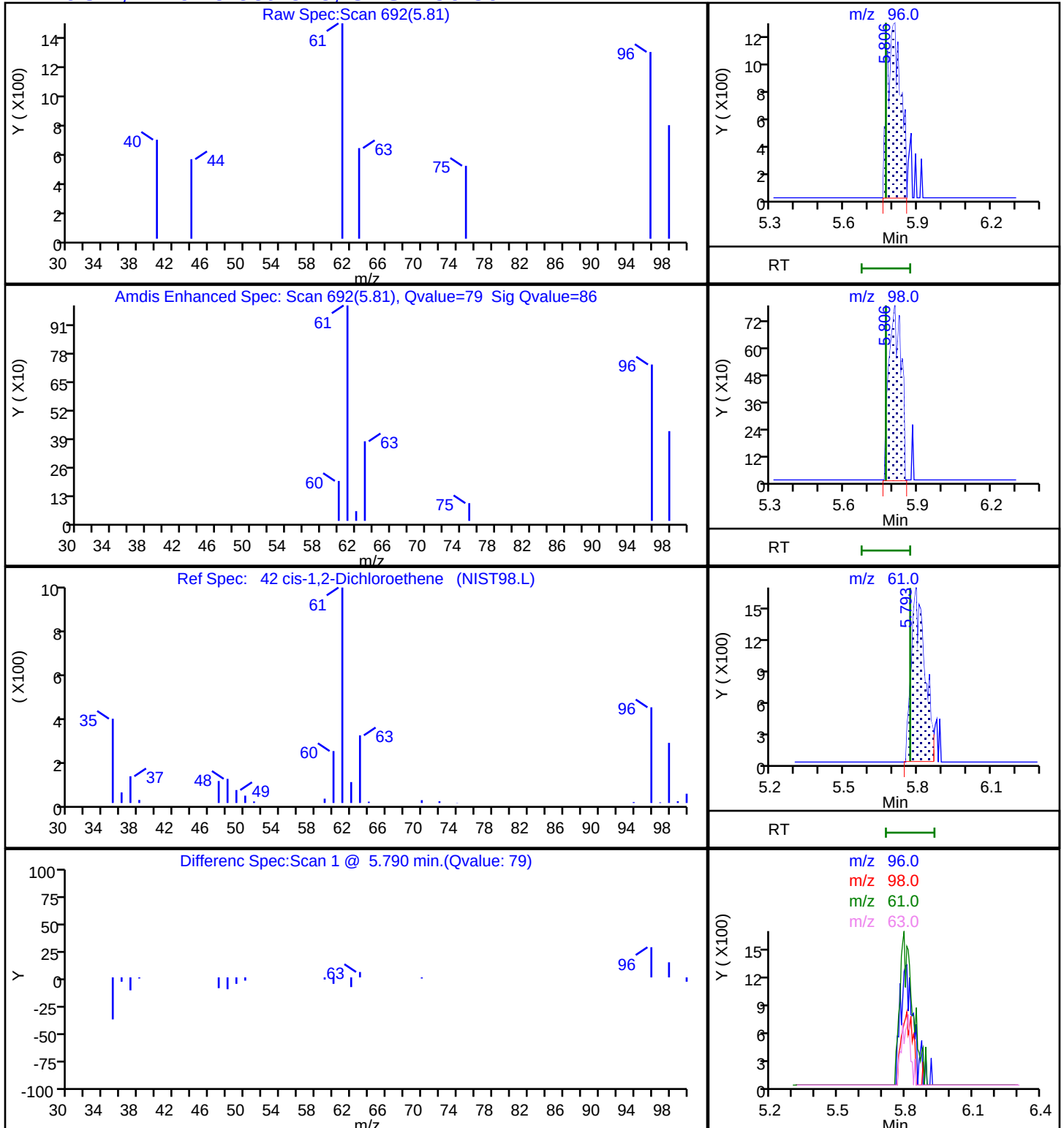
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X49.D

Injection Date: 08-May-2025 03:52:30

Instrument ID: 19094

Lims ID: 410-219242-A-11

Lab Sample ID: 410-219242-11

Client ID: HD-COD-SW-28-0/1-0

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

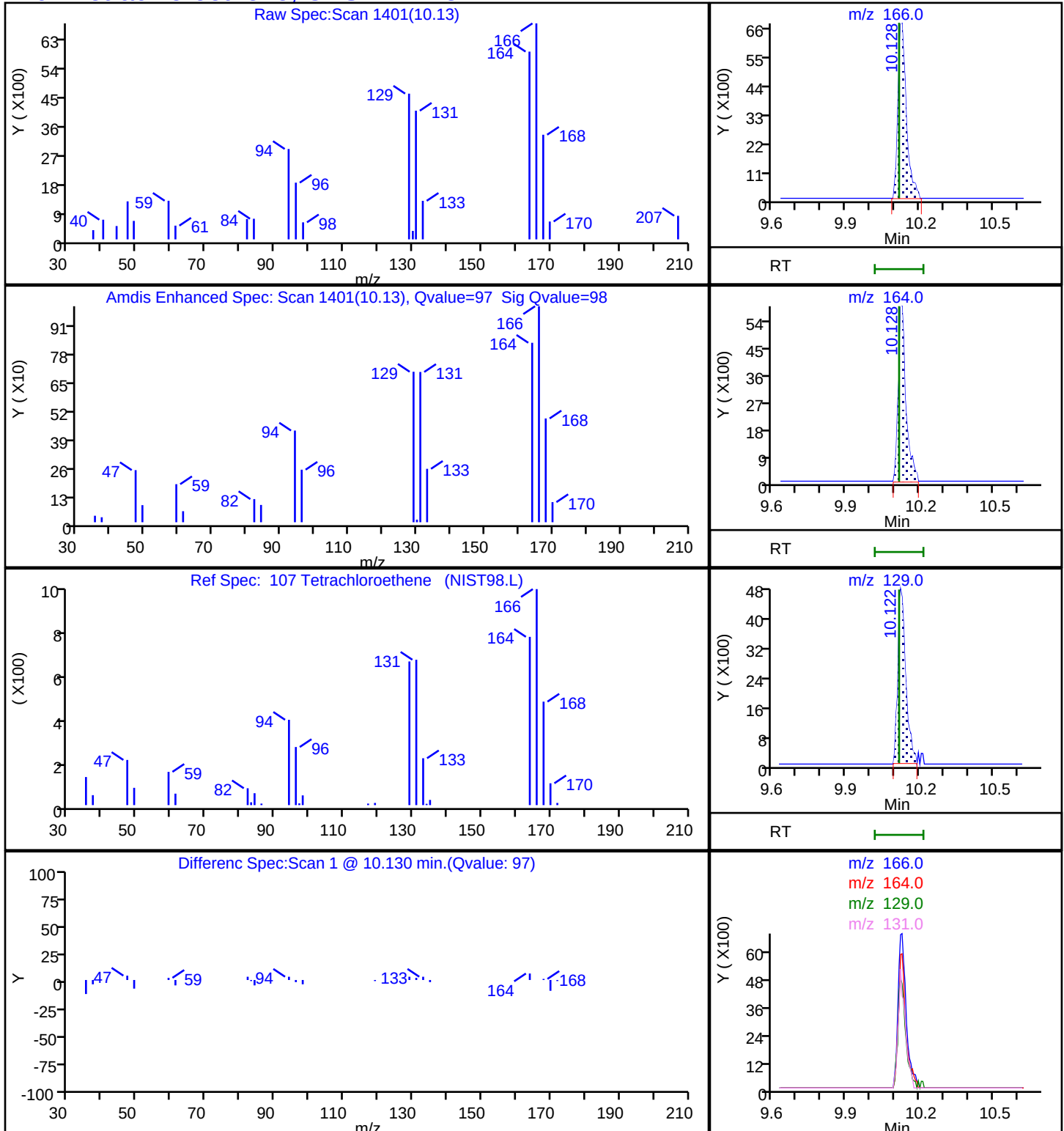
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

107 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X49.D

Injection Date: 08-May-2025 03:52:30

Instrument ID: 19094

Lims ID: 410-219242-A-11

Lab Sample ID: 410-219242-11

Client ID: HD-COD-SW-28-0/1-0

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

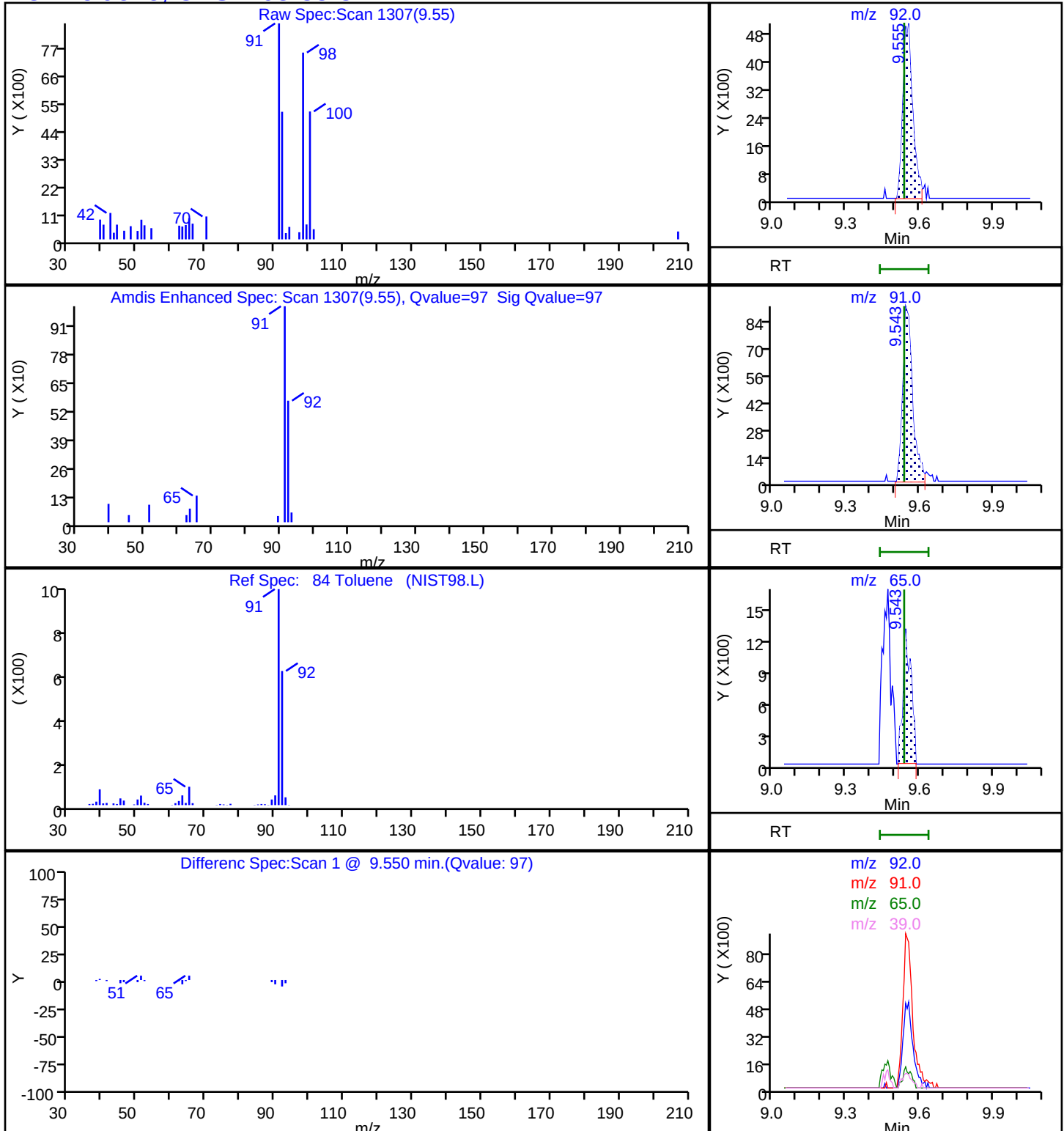
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

84 Toluene, CAS: 108-88-3

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X49.D

Injection Date: 08-May-2025 03:52:30

Instrument ID: 19094

Lims ID: 410-219242-A-11

Lab Sample ID: 410-219242-11

Client ID: HD-COD-SW-28-0/1-0

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

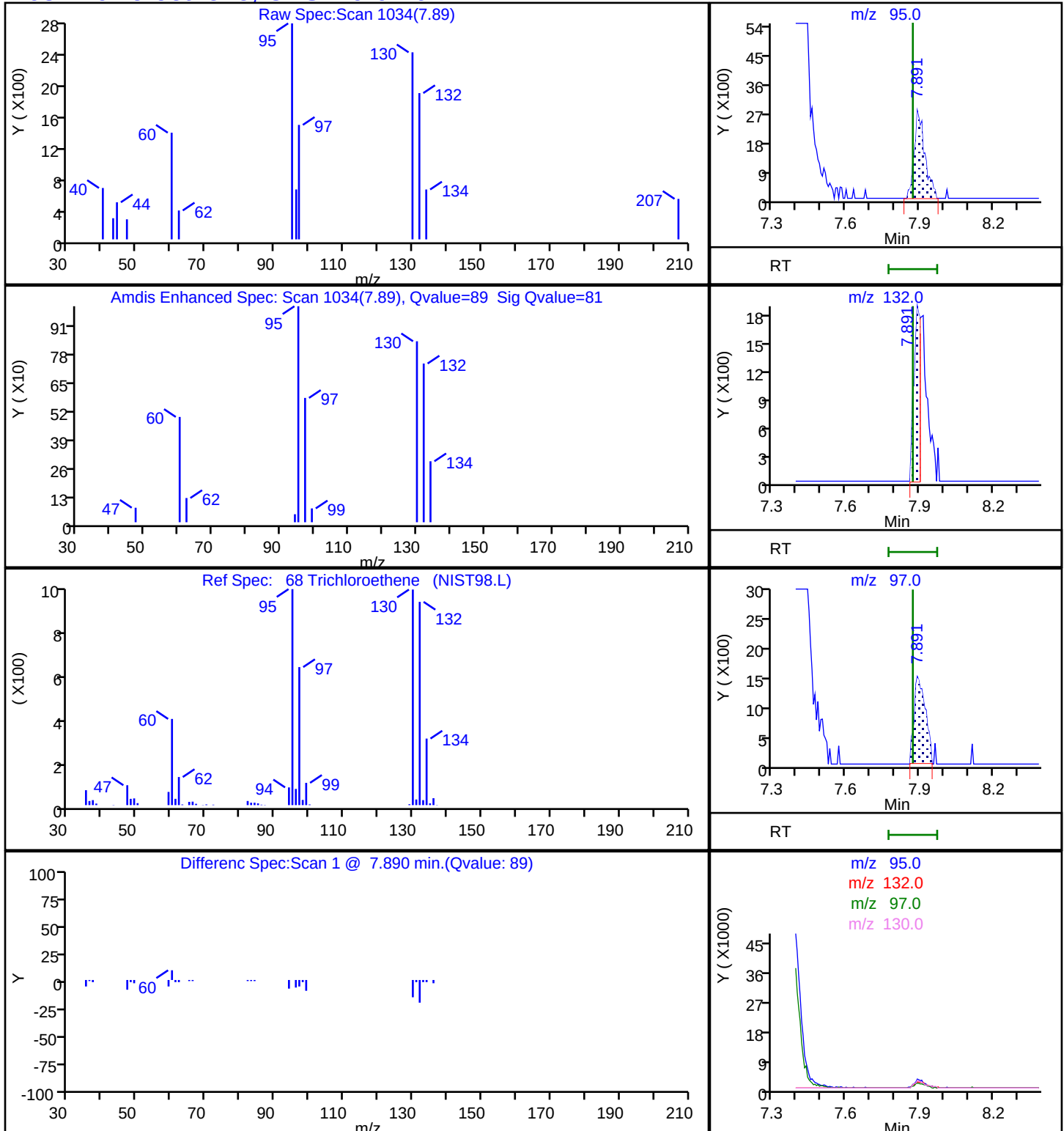
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

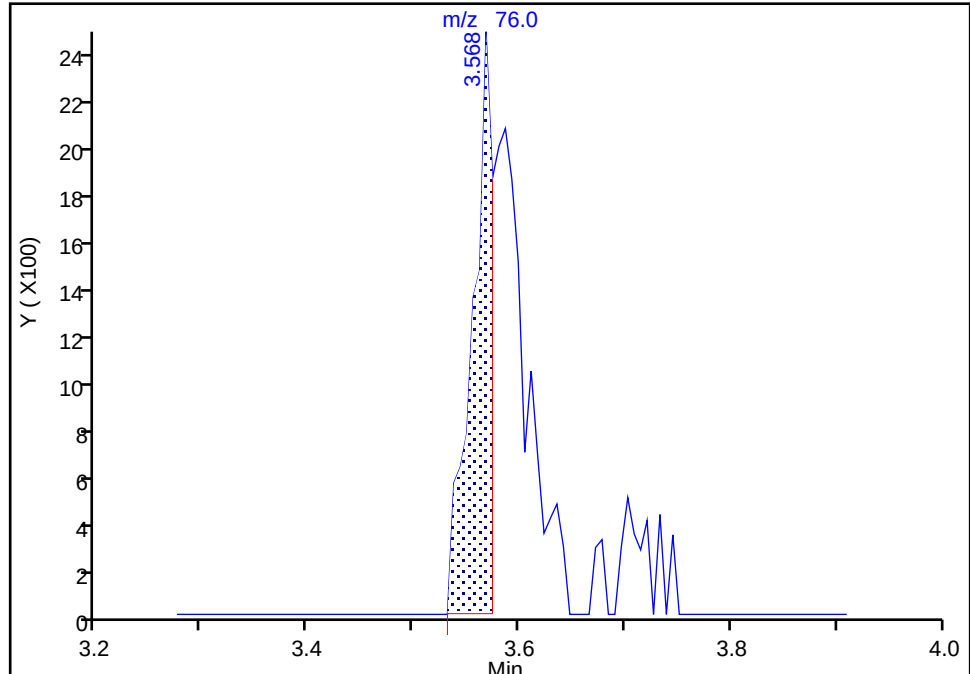
Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X49.D
Injection Date: 08-May-2025 03:52:30 Instrument ID: 19094
Lims ID: 410-219242-A-11 Lab Sample ID: 410-219242-11
Client ID: HD-COD-SW-28-0/1-0
Operator ID: gaw91131 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Carbon disulfide, CAS: 75-15-0

Signal: 1

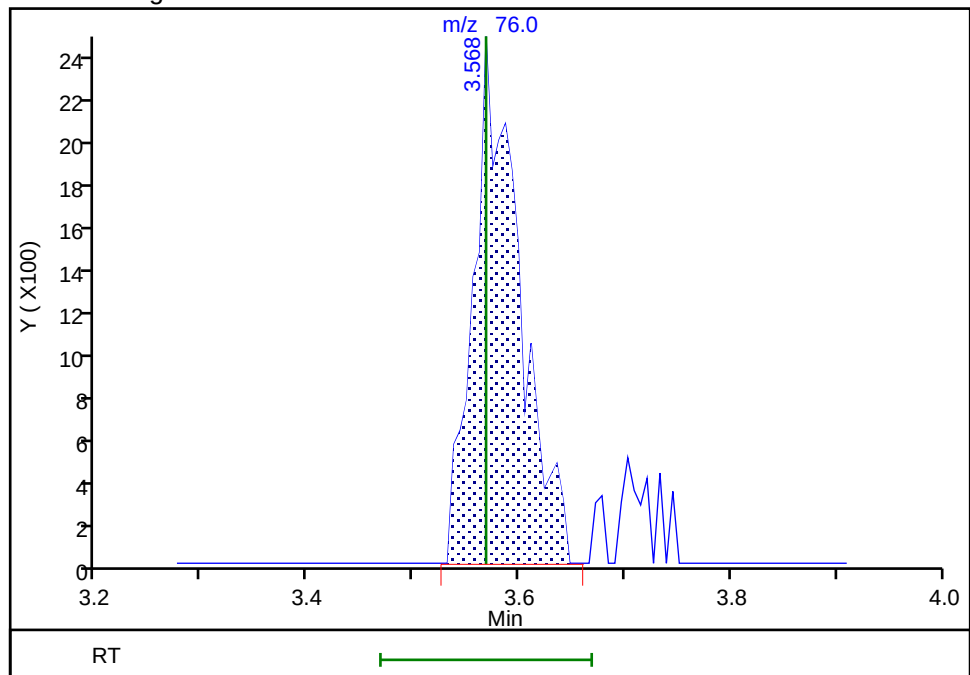
RT: 3.57
Area: 3277
Amount: 0.026179
Amount Units: ug/l

Processing Integration Results



RT: 3.57
Area: 7356
Amount: 0.058765
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 10:11:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

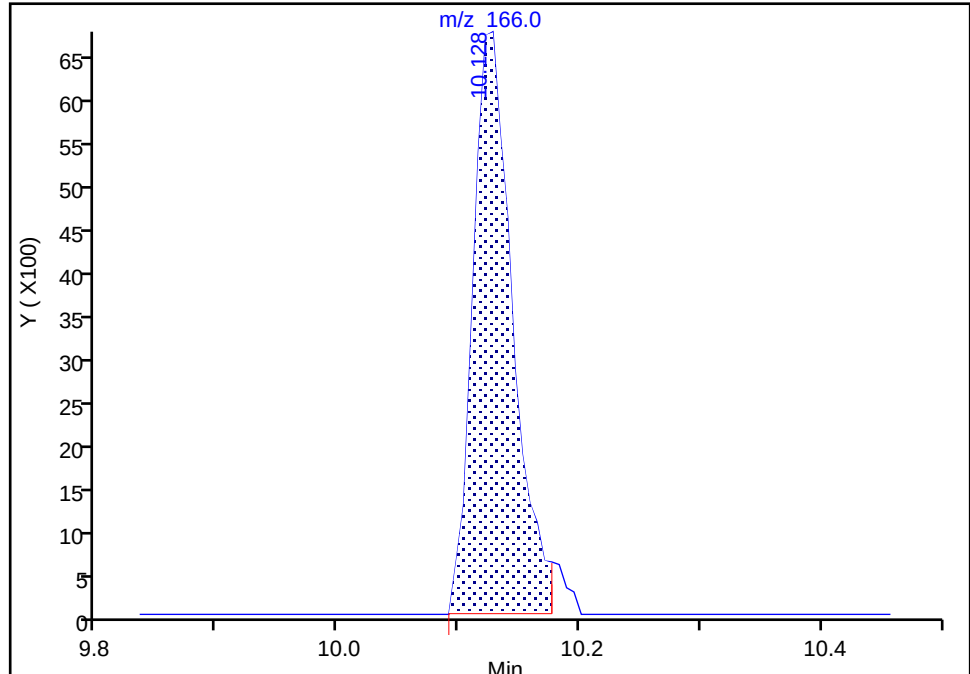
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Injection Date: 08-May-2025 03:52:30 Instrument ID: 19094
Lims ID: 410-219242-A-11 Lab Sample ID: 410-219242-11
Client ID: HD-COD-SW-28-0/1-0
Operator ID: gaw91131 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

107 Tetrachloroethene, CAS: 127-18-4

Signal: 1

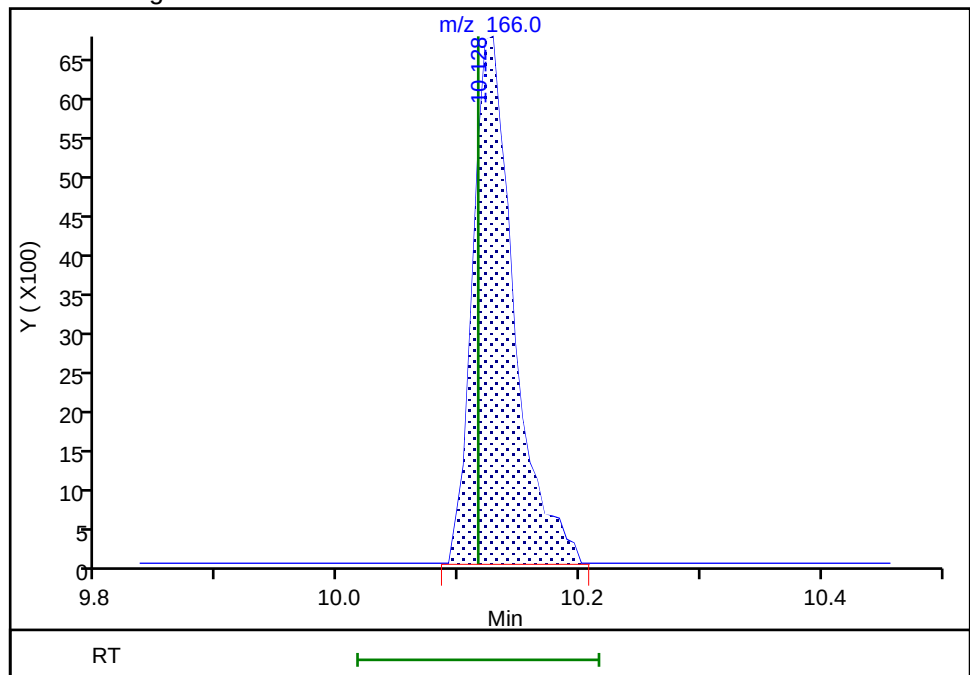
RT: 10.13
Area: 15508
Amount: 0.261530
Amount Units: ug/l

Processing Integration Results



RT: 10.13
Area: 15929
Amount: 0.268630
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 10:12:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

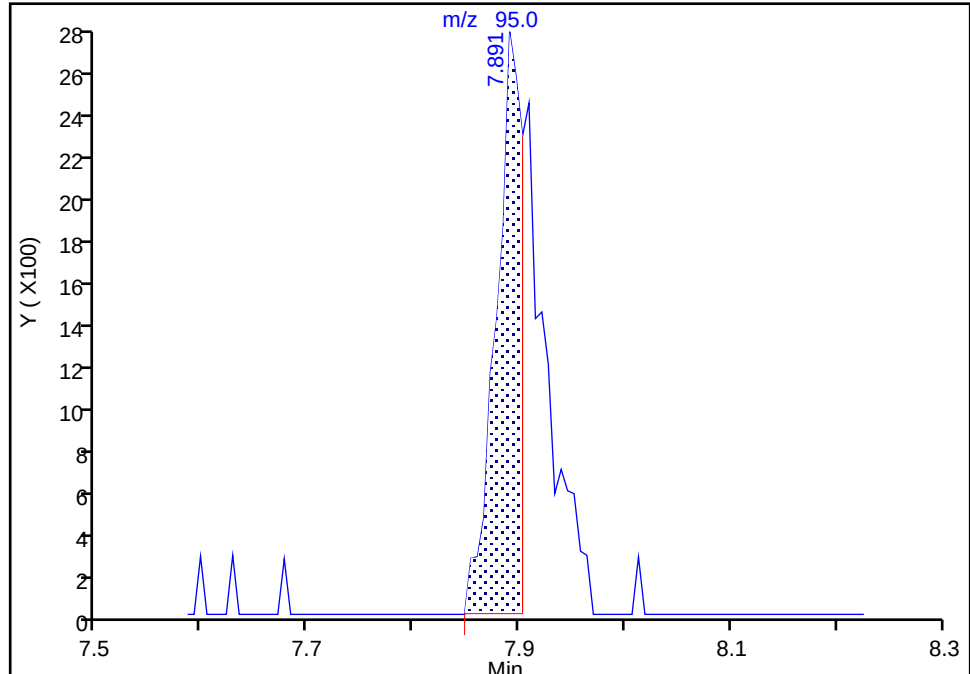
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Injection Date: 08-May-2025 03:52:30 Instrument ID: 19094
Lims ID: 410-219242-A-11 Lab Sample ID: 410-219242-11
Client ID: HD-COD-SW-28-0/1-0
Operator ID: gaw91131 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

68 Trichloroethene, CAS: 79-01-6

Signal: 1

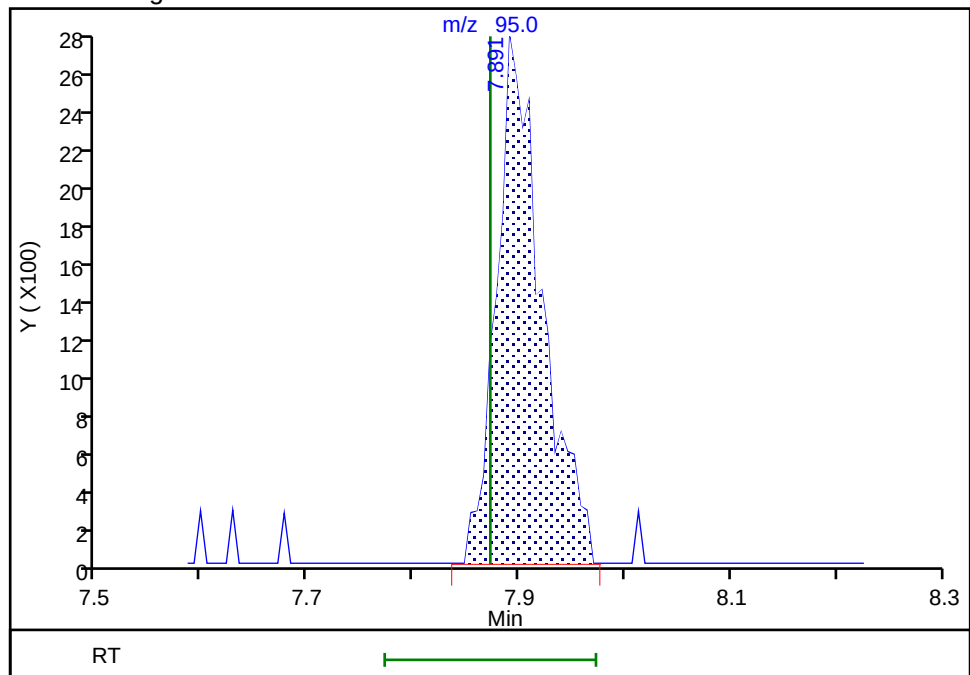
RT: 7.89
Area: 4699
Amount: 0.090918
Amount Units: ug/l

Processing Integration Results



RT: 7.89
Area: 8123
Amount: 0.157166
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 10:12:17 -04:00:00 (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.: 410-219242-1

SDG No.:

Client Sample ID: HD-COD-SW-29-0/1-0

Lab Sample ID: 410-219242-12

Matrix: Water

Lab File ID: HY07X50.D

Analysis Method: 8260D

Date Collected: 04/24/2025 08:32

Sample wt/vol: 25 (mL)

Date Analyzed: 05/08/2025 04:12

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 640992

Units: ug/L

Preparation Batch No.:

Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND	^c cn	5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.094	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.16	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.57		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-29-0/1-0 Lab Sample ID: 410-219242-12

Matrix: Water Lab File ID: HY07X50.D

Analysis Method: 8260D Date Collected: 04/24/2025 08:32

Sample wt/vol: 25 (mL) Date Analyzed: 05/08/2025 04:12

Soil Aliquot Vol: _____ Dilution Factor: 1

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

Purge Volume: 25.0 (mL) Heated Purge: (Y/N) N pH: _____

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

Analysis Batch No.: 640992 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	0.11	J	0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.22	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		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\19094\20250507-146489.b\HY07X50.D
 Lims ID: 410-219242-A-12
 Client ID: HD-COD-SW-29-0/1-0
 Sample Type: Client
 Inject. Date: 08-May-2025 04:12:30 ALS Bottle#: 20 Worklist Smp#: 21
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0146489-021
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 10:14:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.026	2.032	-0.006	1	4553	0.0583	
6 Vinyl chloride	62		2.142				ND	7
9 Bromomethane	94		2.422				ND	
10 Chloroethane	64		2.507				ND	
17 1,1-Dichloroethene	96		3.282				ND	
19 Acetone	43		3.282				ND	
23 Carbon disulfide	76	3.574	3.568	0.006	56	5225	0.0423	M
27 Methylene Chloride	84		3.885				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.928	3.928	0.000	95	62131	50.0	
32 Methyl tert-butyl ether	73		4.263				ND	
33 trans-1,2-Dichloroethene	96		4.275				ND	
36 1,1-Dichloroethane	63		4.928				ND	7
41 2-Butanone (MEK)	43		5.732				ND	7
42 cis-1,2-Dichloroethene	96	5.799	5.769	0.030	78	8076	0.1568	
48 Chlorobromomethane	128		6.104				ND	
50 Chloroform	83	6.281	6.257	0.024	87	7524	0.0935	
\$ 52 Dibromofluoromethane (Surr)	113	6.482	6.476	0.006	94	362778	10.0	
53 1,1,1-Trichloroethane	97		6.494				ND	U
56 Carbon tetrachloride	117		6.714				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.939	6.940	-0.001	46	66699	10.4	
59 Benzene	78		6.970				ND	7
60 1,2-Dichloroethane	62		7.043				ND	
* 64 Fluorobenzene (IS)	96	7.384	7.385	-0.001	98	1662958	10.0	
68 Trichloroethene	95	7.896	7.872	0.024	96	11217	0.2197	M
70 1,2-Dichloropropane	63		8.208				ND	
76 Dichlorobromomethane	83		8.561				ND	7
80 cis-1,3-Dichloropropene	75		9.134				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.317				ND	
\$ 83 Toluene-d8 (Surr)	98	9.463	9.457	0.006	94	1624415	10.0	
84 Toluene	92	9.549	9.537	0.012	93	13961	0.1096	
85 trans-1,3-Dichloropropene	75		9.817				ND	
106 1,1,2-Trichloroethane	97		10.030				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.128	10.116	0.012	97	33547	0.5689	
109 2-Hexanone	43		10.250				ND	
111 Chlorodibromomethane	129		10.414				ND	
112 Ethylene Dibromide	107		10.530				ND	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	86	1200599	10.0	
115 Chlorobenzene	112		11.000				ND	
116 1,1,1,2-Tetrachloroethane	131		11.085				ND	
117 Ethylbenzene	91		11.091				ND	7
119 m-Xylene & p-Xylene	106		11.207				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.542				ND	7
121 Styrene	104		11.561				ND	
122 Bromoform	173		11.719				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	11.999	11.993	0.006	91	569719	9.58	
127 1,1,2,2-Tetrachloroethane	83		12.097				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.889	12.883	0.006	95	610155	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-May-2025 10:22:12

Chrom Revision: 2.3 18-Apr-2025 15:35:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X50.D

Injection Date: 08-May-2025 04:12:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-219242-A-12

Lab Sample ID: 410-219242-12

Worklist Smp#: 21

Client ID: HD-COD-SW-29-0/1-0

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

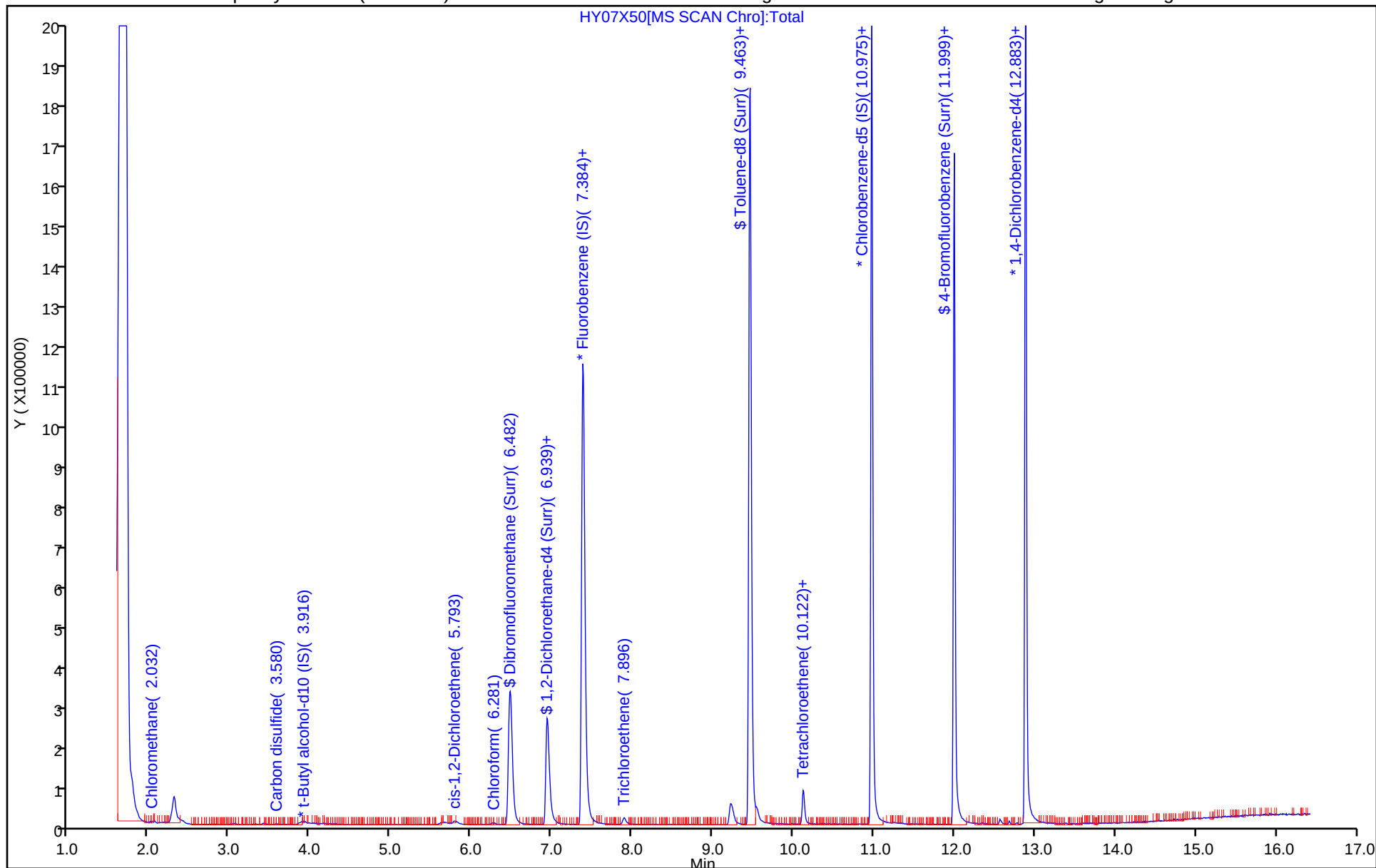
ALS Bottle#: 20

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X50.D
Lims ID: 410-219242-A-12
Client ID: HD-COD-SW-29-0/1-0
Sample Type: Client
Inject. Date: 08-May-2025 04:12:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0146489-021
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 10:14:02

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.0	100.44
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.30
\$ 83 Toluene-d8 (Surr)	10.0	10.0	100.00
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.58	95.82

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X50.D

Injection Date: 08-May-2025 04:12:30

Instrument ID: 19094

Lims ID: 410-219242-A-12

Lab Sample ID: 410-219242-12

Client ID: HD-COD-SW-29-0/1-0

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

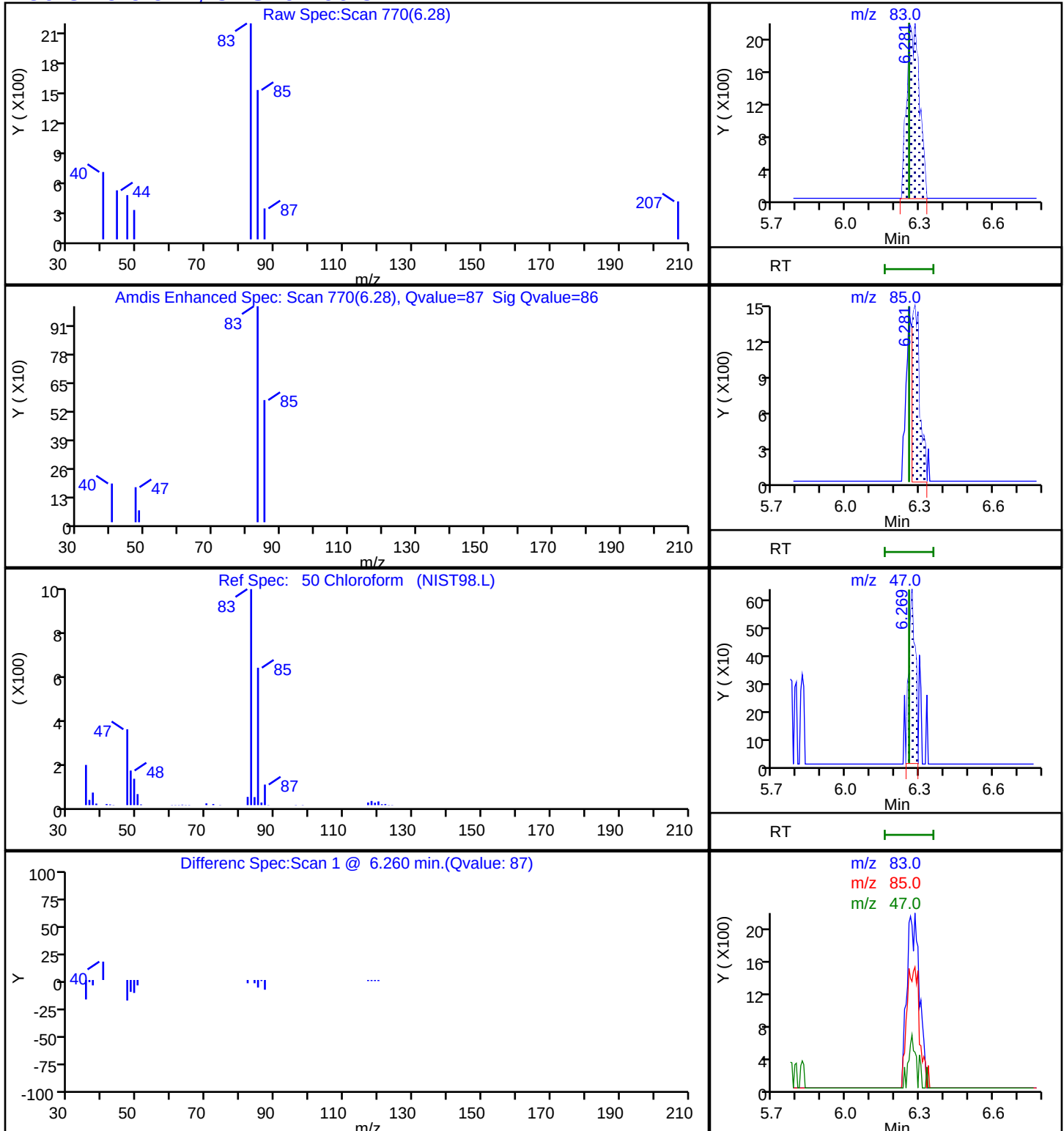
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X50.D

Injection Date: 08-May-2025 04:12:30

Instrument ID: 19094

Lims ID: 410-219242-A-12

Lab Sample ID: 410-219242-12

Client ID: HD-COD-SW-29-0/1-0

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

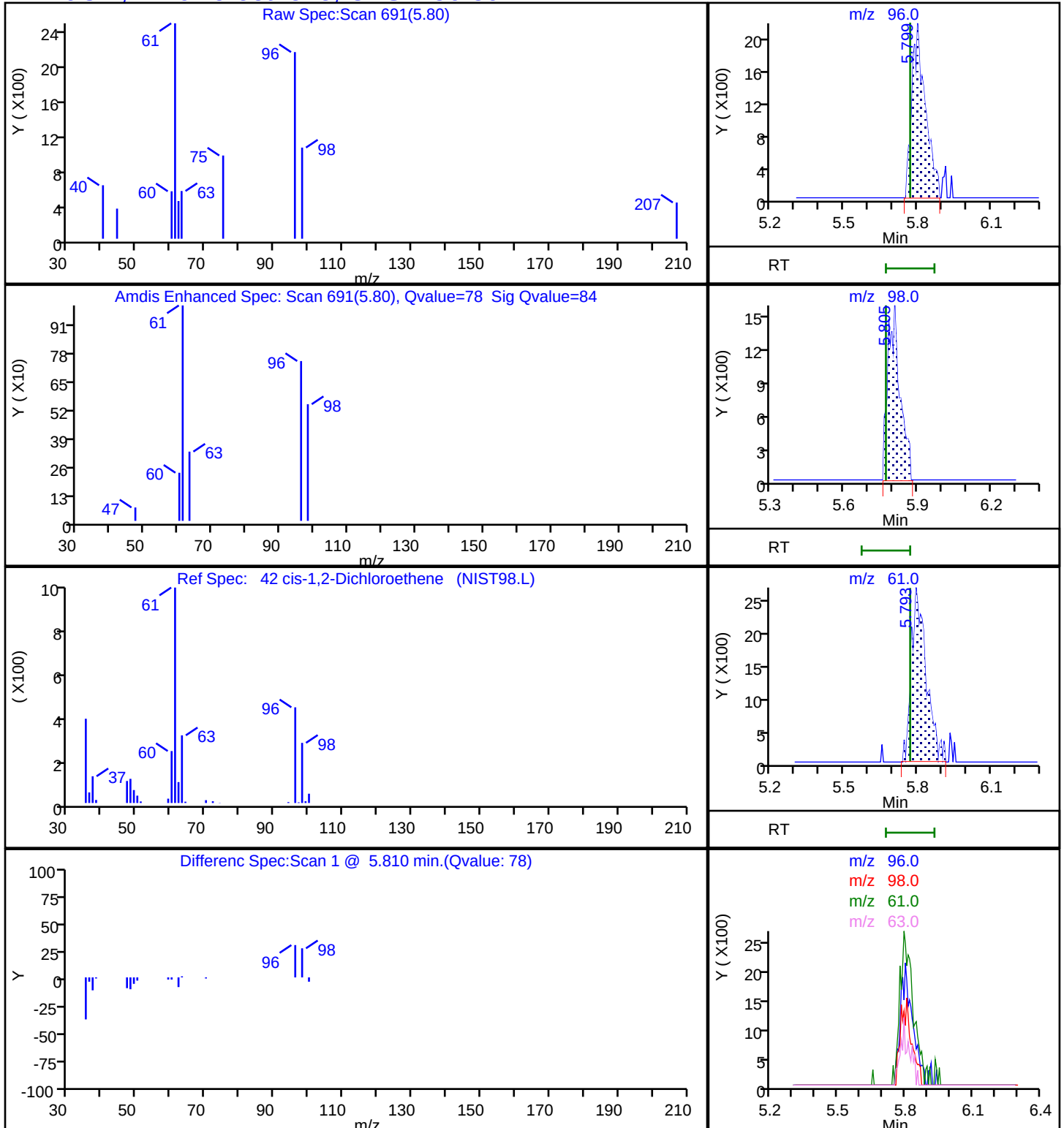
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X50.D

Injection Date: 08-May-2025 04:12:30

Instrument ID: 19094

Lims ID: 410-219242-A-12

Lab Sample ID: 410-219242-12

Client ID: HD-COD-SW-29-0/1-0

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

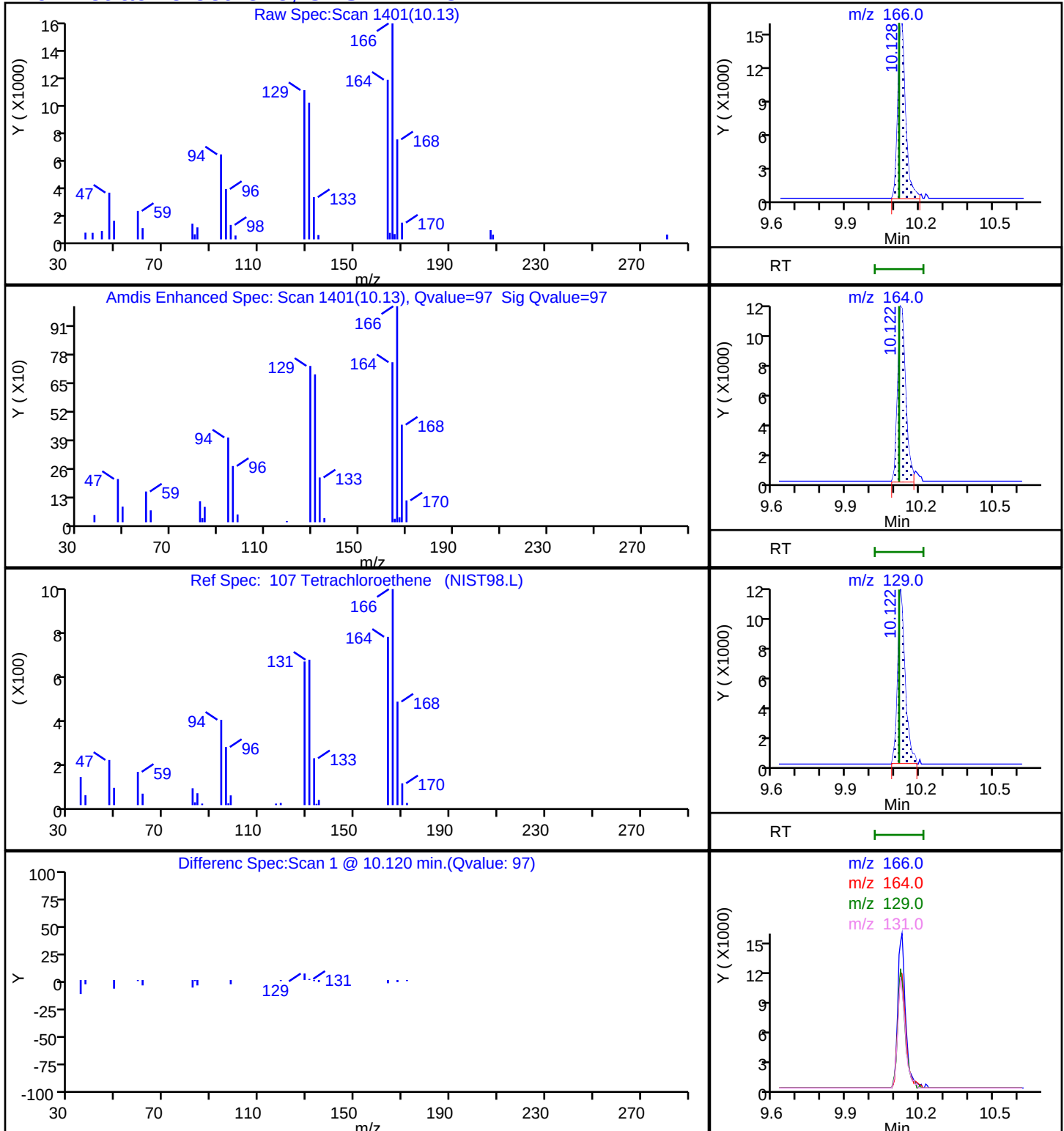
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

107 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X50.D

Injection Date: 08-May-2025 04:12:30

Instrument ID: 19094

Lims ID: 410-219242-A-12

Lab Sample ID: 410-219242-12

Client ID: HD-COD-SW-29-0/1-0

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

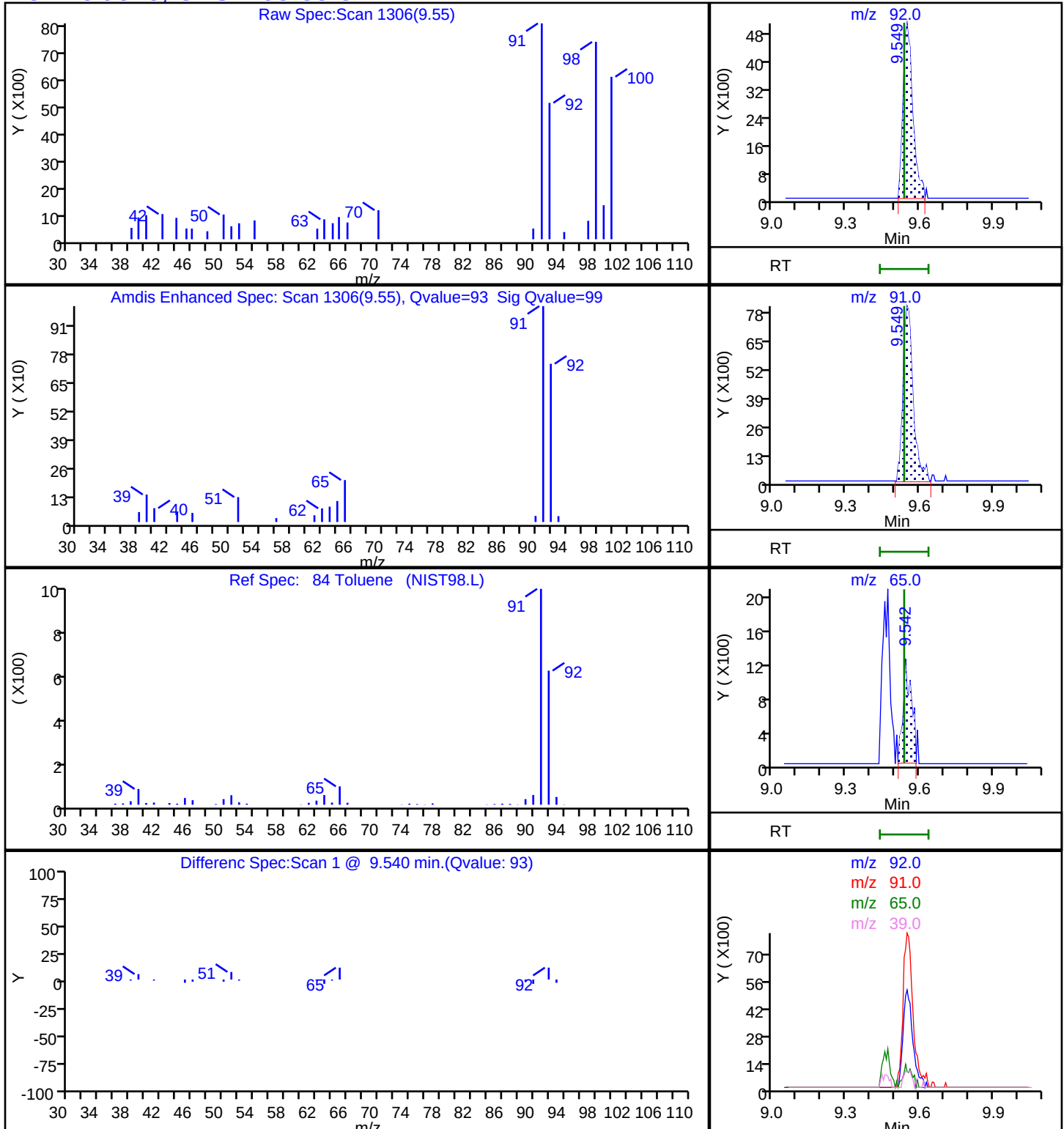
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

84 Toluene, CAS: 108-88-3

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X50.D

Injection Date: 08-May-2025 04:12:30

Instrument ID: 19094

Lims ID: 410-219242-A-12

Lab Sample ID: 410-219242-12

Client ID: HD-COD-SW-29-0/1-0

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

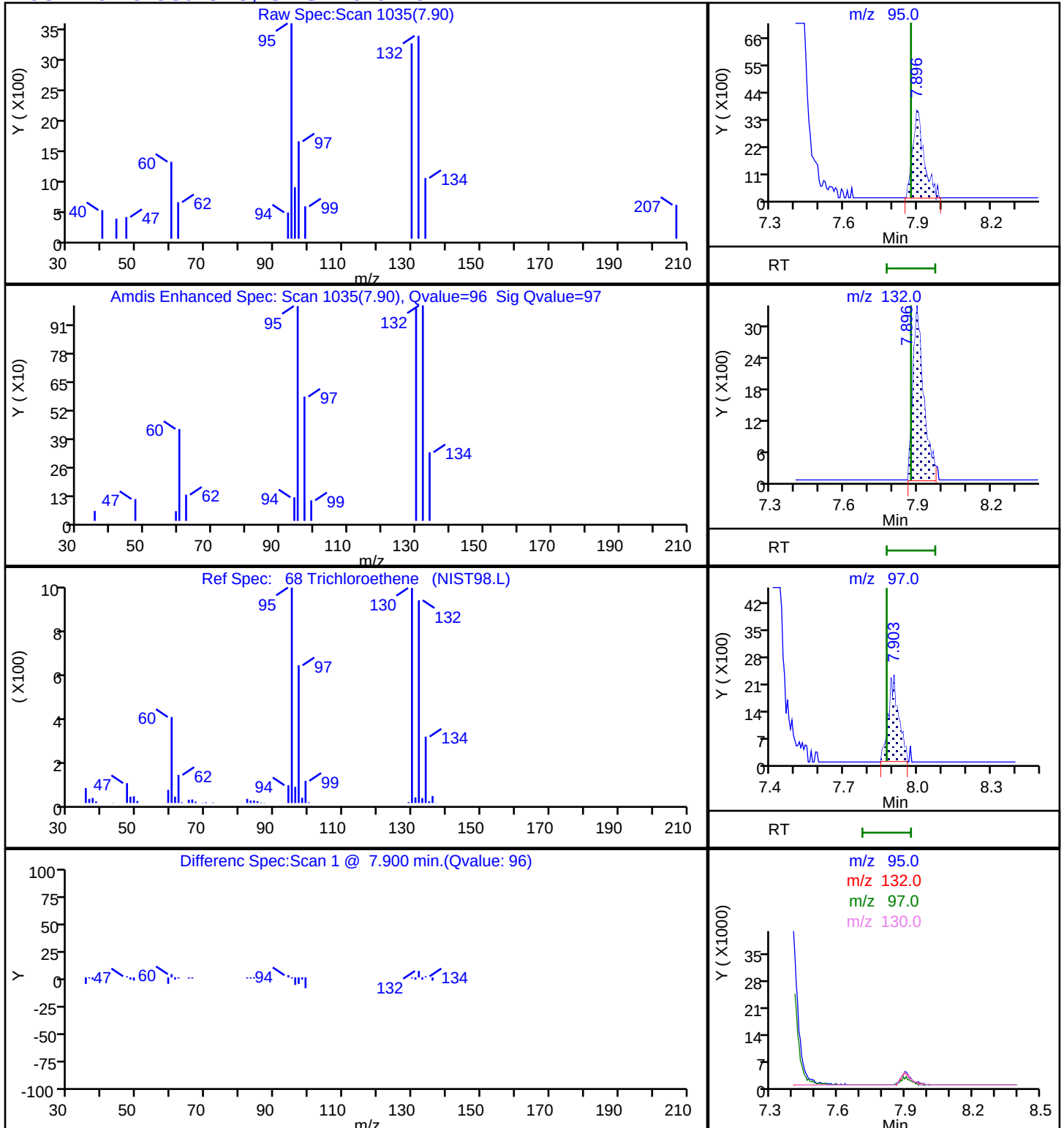
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

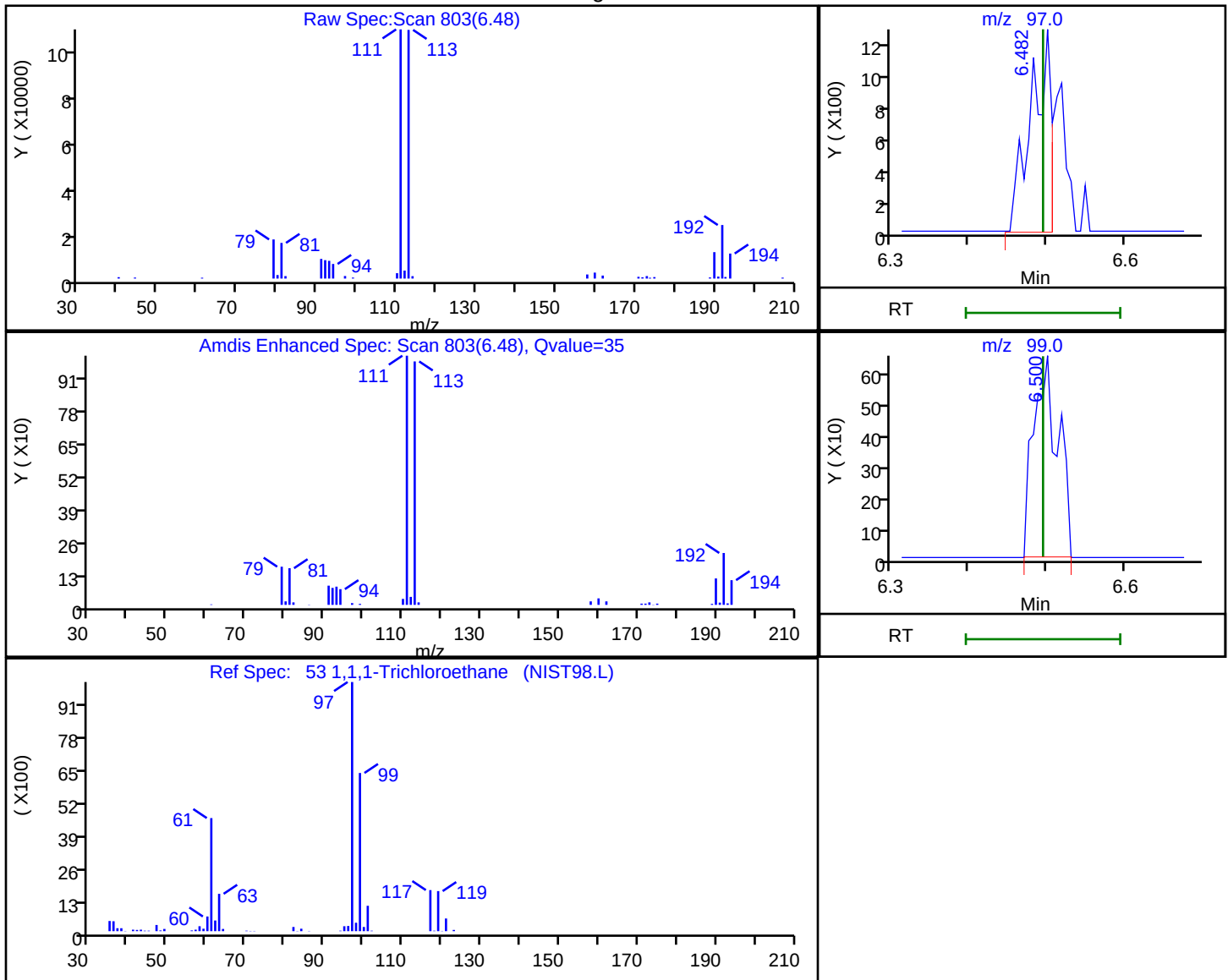
68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X50.D
Injection Date: 08-May-2025 04:12:30 Instrument ID: 19094
Lims ID: 410-219242-A-12 Lab Sample ID: 410-219242-12
Client ID: HD-COD-SW-29-0/1-0
Operator ID: gaw91131 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

53 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



RT	Mass	Response	Amount
6.48	97.00	2190	0.030068
6.50	99.00	1431	

Reviewer: N7YK, 08-May-2025 10:13:26 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

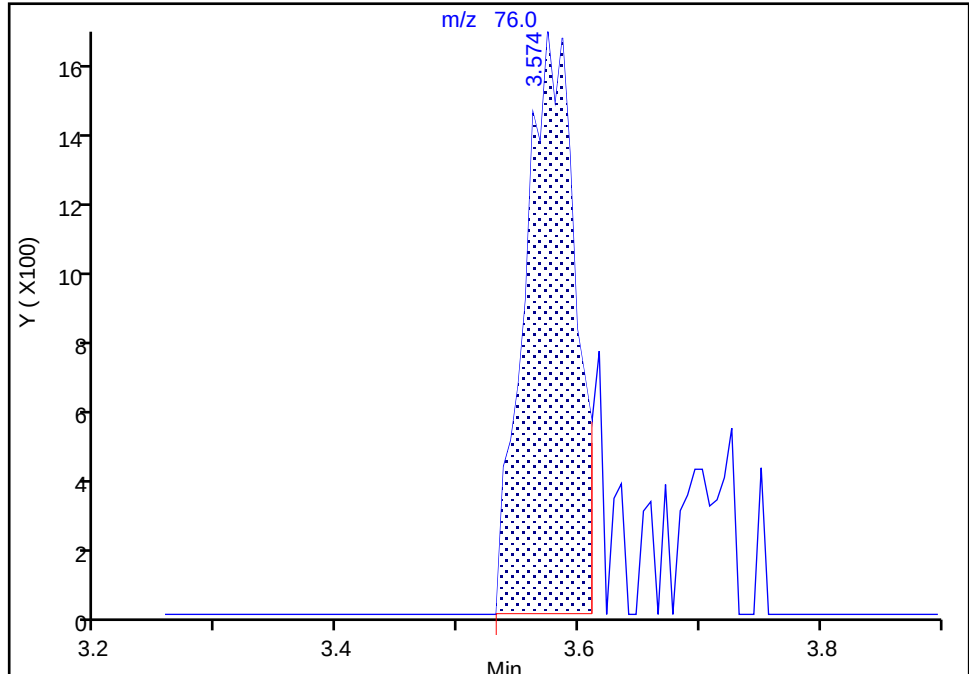
Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X50.D
Injection Date: 08-May-2025 04:12:30 Instrument ID: 19094
Lims ID: 410-219242-A-12 Lab Sample ID: 410-219242-12
Client ID: HD-COD-SW-29-0/1-0
Operator ID: gaw91131 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

23 Carbon disulfide, CAS: 75-15-0

Signal: 1

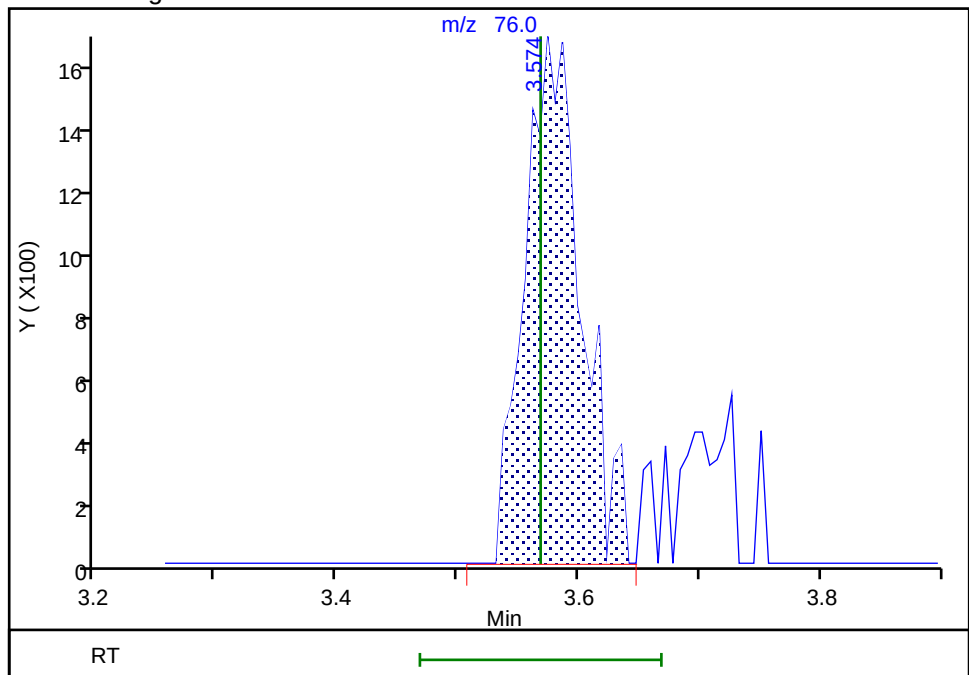
RT: 3.57
Area: 4712
Amount: 0.038107
Amount Units: ug/l

Processing Integration Results



RT: 3.57
Area: 5225
Amount: 0.042256
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 10:13:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

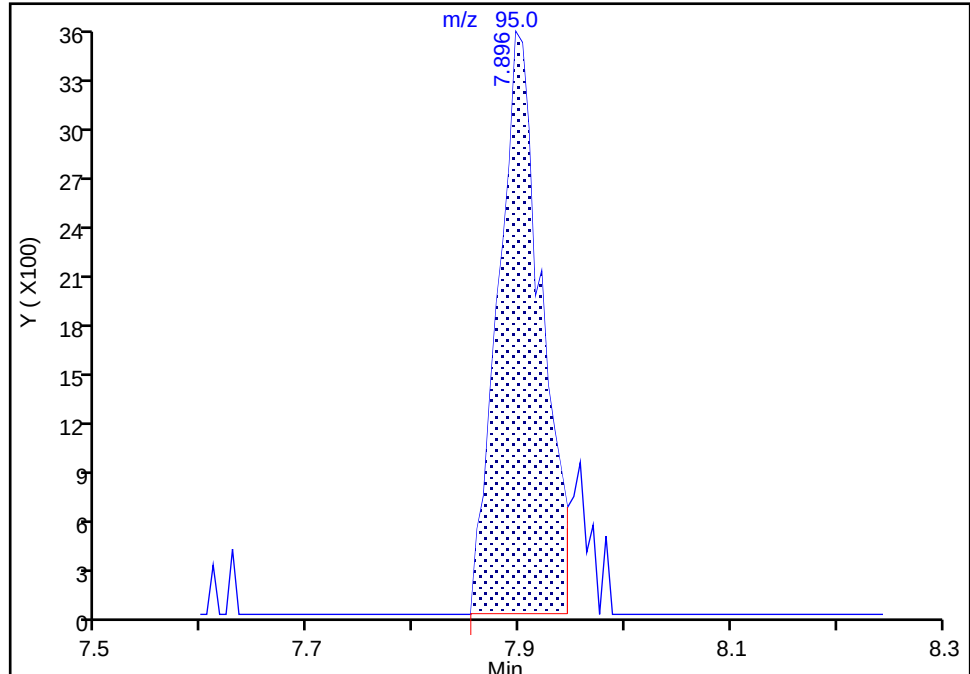
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Injection Date: 08-May-2025 04:12:30 Instrument ID: 19094
Lims ID: 410-219242-A-12 Lab Sample ID: 410-219242-12
Client ID: HD-COD-SW-29-0/1-0
Operator ID: gaw91131 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

68 Trichloroethene, CAS: 79-01-6

Signal: 1

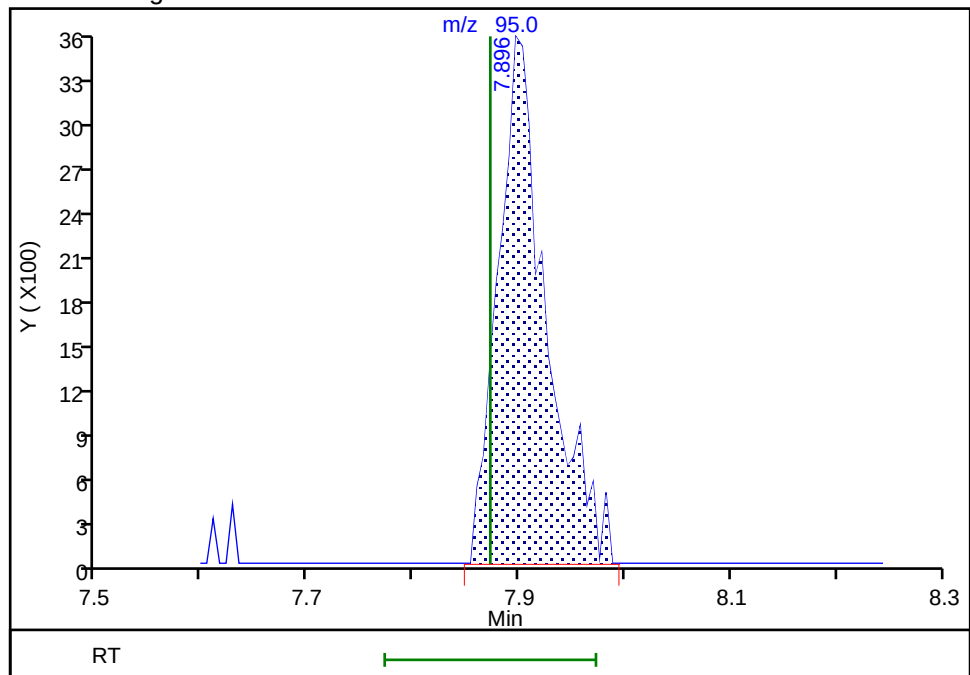
RT: 7.90
Area: 10101
Amount: 0.197847
Amount Units: ug/l

Processing Integration Results



RT: 7.90
Area: 11217
Amount: 0.219706
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 08-May-2025 10:13:41 -04:00:00 (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.: 410-219242-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1

Lab Sample ID: 410-219242-13

Matrix: Water

Lab File ID: HY07X59.D

Analysis Method: 8260D

Date Collected: 04/24/2025 12:00

Sample wt/vol: 25 (mL)

Date Analyzed: 05/08/2025 07:19

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 640992

Units: ug/L

Preparation Batch No.:

Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	12		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	2.1		0.50	0.10
75-35-4	1,1-Dichloroethene	0.93		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND	^c cn	5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.19	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	2.1		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	Job No.: 410-219242-1
SDG No.:	
Client Sample ID: HD-QC1-0/1-1	Lab Sample ID: 410-219242-13
Matrix: Water	Lab File ID: HY07X59.D
Analysis Method: 8260D	Date Collected: 04/24/2025 12:00
Sample wt/vol: 25 (mL)	Date Analyzed: 05/08/2025 07:19
Soil Aliquot Vol:	Dilution Factor: 1
Soil Extract Vol.:	GC Column: R-624SilMS 30m ID: 0.25 (mm)
Purge Volume: 25.0 (mL)	Heated Purge: (Y/N) N pH:
% Moisture: % Solids:	Level: (low/med) Low
Analysis Batch No.: 640992	Units: ug/L
Preparation Batch No.:	Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	3.7		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

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)	103		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\19094\20250507-146489.b\HY07X59.D
 Lims ID: 410-219242-A-13
 Client ID: HD-QC1-0/1-1
 Sample Type: Client
 Inject. Date: 08-May-2025 07:19:30 ALS Bottle#: 29 Worklist Smp#: 30
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0146489-030
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 10:19:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.032				ND	7
6 Vinyl chloride	62		2.142				ND	7
9 Bromomethane	94		2.422				ND	
10 Chloroethane	64		2.507				ND	
17 1,1-Dichloroethene	96	3.282	3.282	0.000	96	36123	0.9289	
19 Acetone	43		3.282				ND	
23 Carbon disulfide	76		3.568				ND	
27 Methylene Chloride	84		3.885				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.885	3.928	-0.043	95	49065	50.0	
32 Methyl tert-butyl ether	73		4.263				ND	7
33 trans-1,2-Dichloroethene	96	4.306	4.275	0.031	11	2011	0.0462	
36 1,1-Dichloroethane	63	4.928	4.928	0.000	96	186675	2.14	
41 2-Butanone (MEK)	43		5.732				ND	
42 cis-1,2-Dichloroethene	96	5.775	5.769	0.006	81	107693	2.07	
48 Chlorobromomethane	128		6.104				ND	
50 Chloroform	83	6.263	6.257	0.006	92	15062	0.1856	
\$ 52 Dibromofluoromethane (Surr)	113	6.476	6.476	0.000	93	374833	10.3	
53 1,1,1-Trichloroethane	97	6.488	6.494	-0.006	99	880039	12.0	
56 Carbon tetrachloride	117	6.696	6.714	-0.018	1	2071	0.0317	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.939	6.940	-0.001	47	66724	10.3	
59 Benzene	78		6.970				ND	7
60 1,2-Dichloroethane	62		7.043				ND	
* 64 Fluorobenzene (IS)	96	7.385	7.385	-0.001	99	1677785	10.0	
68 Trichloroethene	95	7.878	7.872	0.006	99	190805	3.70	
70 1,2-Dichloropropane	63		8.208				ND	
76 Dichlorobromomethane	83		8.561				ND	
80 cis-1,3-Dichloropropene	75		9.134				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.317				ND	
\$ 83 Toluene-d8 (Surr)	98	9.457	9.457	0.000	94	1643729	9.78	
84 Toluene	92		9.537				ND	7
85 trans-1,3-Dichloropropene	75		9.817				ND	
106 1,1,2-Trichloroethane	97		10.030				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.116	10.116	0.000	98	10545422	172.8	E
109 2-Hexanone	43		10.250				ND	
111 Chlorodibromomethane	129		10.414				ND	7
112 Ethylene Dibromide	107		10.530				ND	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	87	1242722	10.0	
115 Chlorobenzene	112		11.000				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.085				ND	
117 Ethylbenzene	91		11.091				ND	
119 m-Xylene & p-Xylene	106		11.207				ND	
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.542				ND	
121 Styrene	104		11.561				ND	
122 Bromoform	173		11.719				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	11.999	11.993	0.006	91	591640	9.61	
127 1,1,2,2-Tetrachloroethane	83		12.097				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.890	12.883	0.007	95	634141	10.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-May-2025 10:22:41

Chrom Revision: 2.3 18-Apr-2025 15:35:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X59.D

Injection Date: 08-May-2025 07:19:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-219242-A-13

Lab Sample ID: 410-219242-13

Worklist Smp#: 30

Client ID: HD-QC1-0/1-1

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

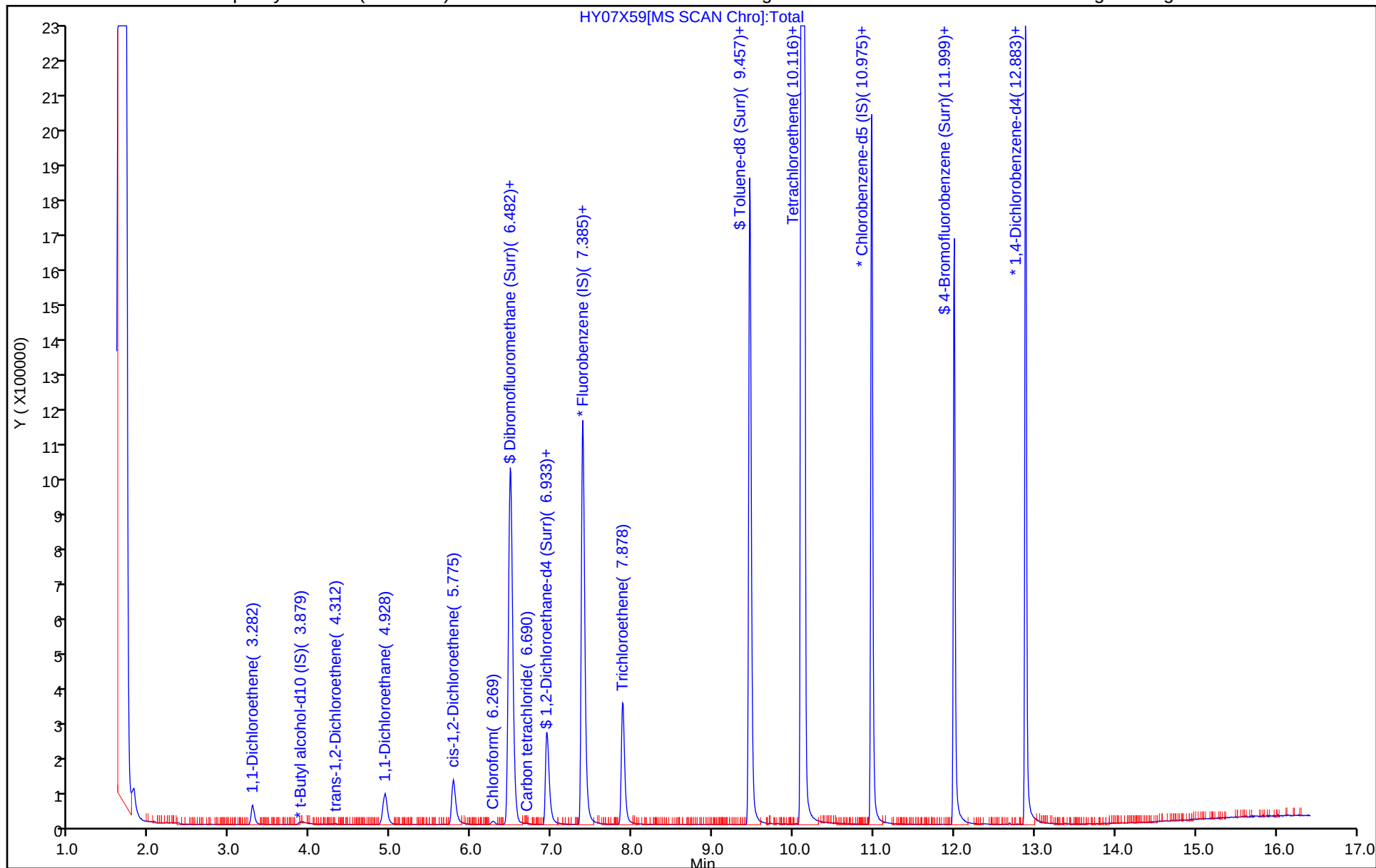
ALS Bottle#: 29

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X59.D
Lims ID: 410-219242-A-13
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 08-May-2025 07:19:30 ALS Bottle#: 29 Worklist Smp#: 30
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0146489-030
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 10:19:56

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.3	102.86
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.41
\$ 83 Toluene-d8 (Surr)	10.0	9.78	97.76
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.61	96.14

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X59.D

Injection Date: 08-May-2025 07:19:30

Instrument ID: 19094

Lims ID: 410-219242-A-13

Lab Sample ID: 410-219242-13

Client ID: HD-QC1-0/1-1

Operator ID: gaw91131

ALS Bottle#: 29

Worklist Smp#: 30

Purge Vol: 25.000 mL

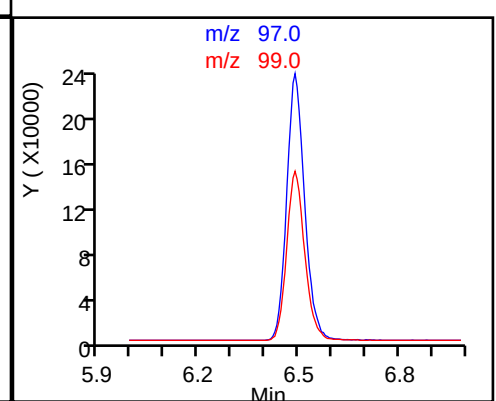
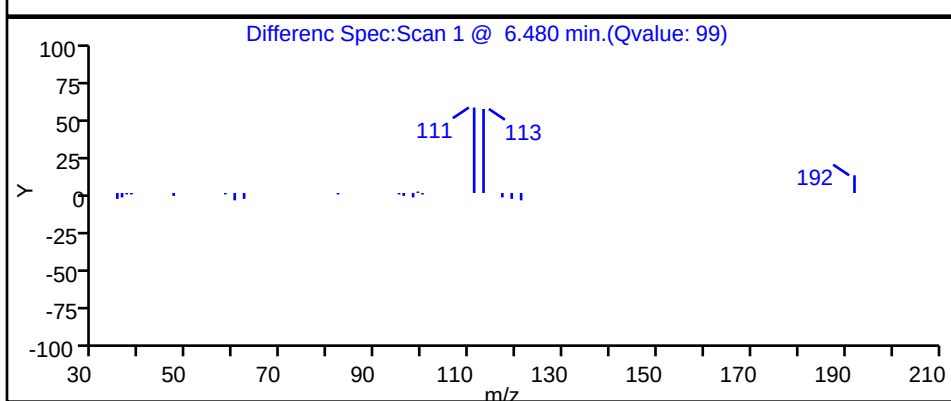
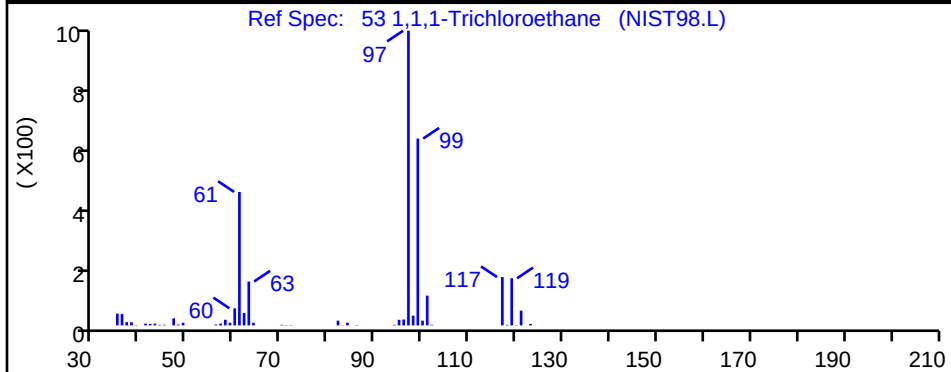
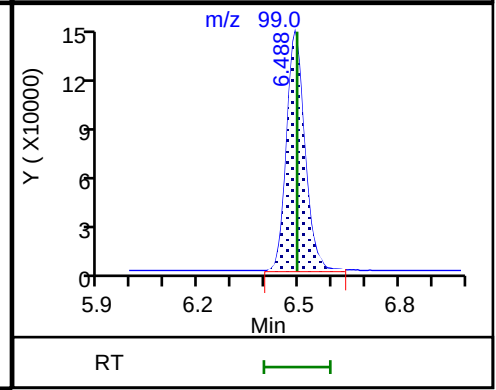
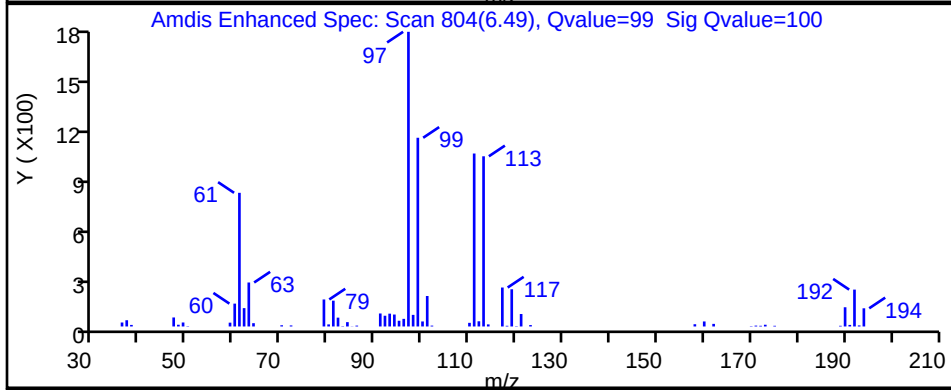
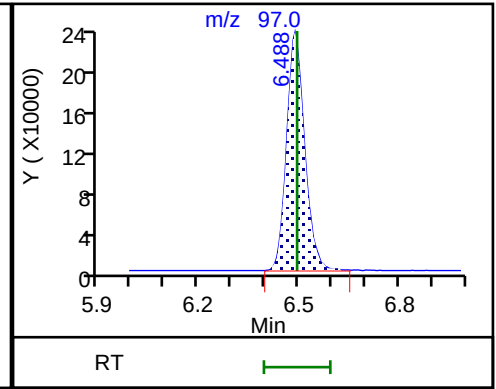
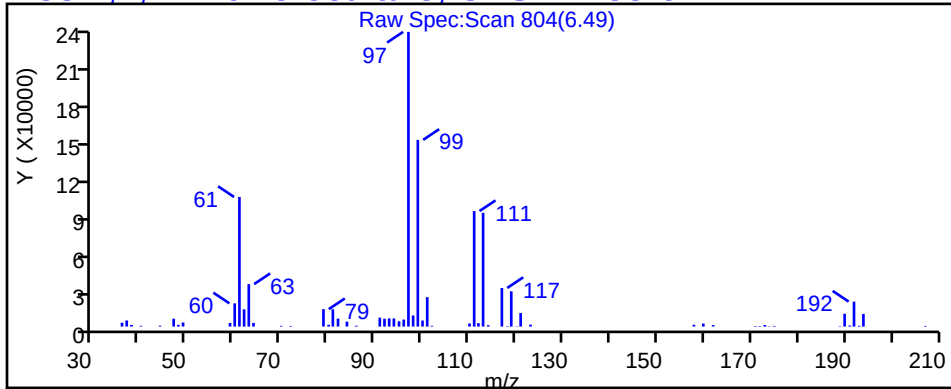
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

53 1,1,1-Trichloroethane, CAS: 71-55-6

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X59.D

Injection Date: 08-May-2025 07:19:30

Instrument ID: 19094

Lims ID: 410-219242-A-13

Lab Sample ID: 410-219242-13

Client ID: HD-QC1-0/1-1

Operator ID: gaw91131

ALS Bottle#: 29

Worklist Smp#: 30

Purge Vol: 25.000 mL

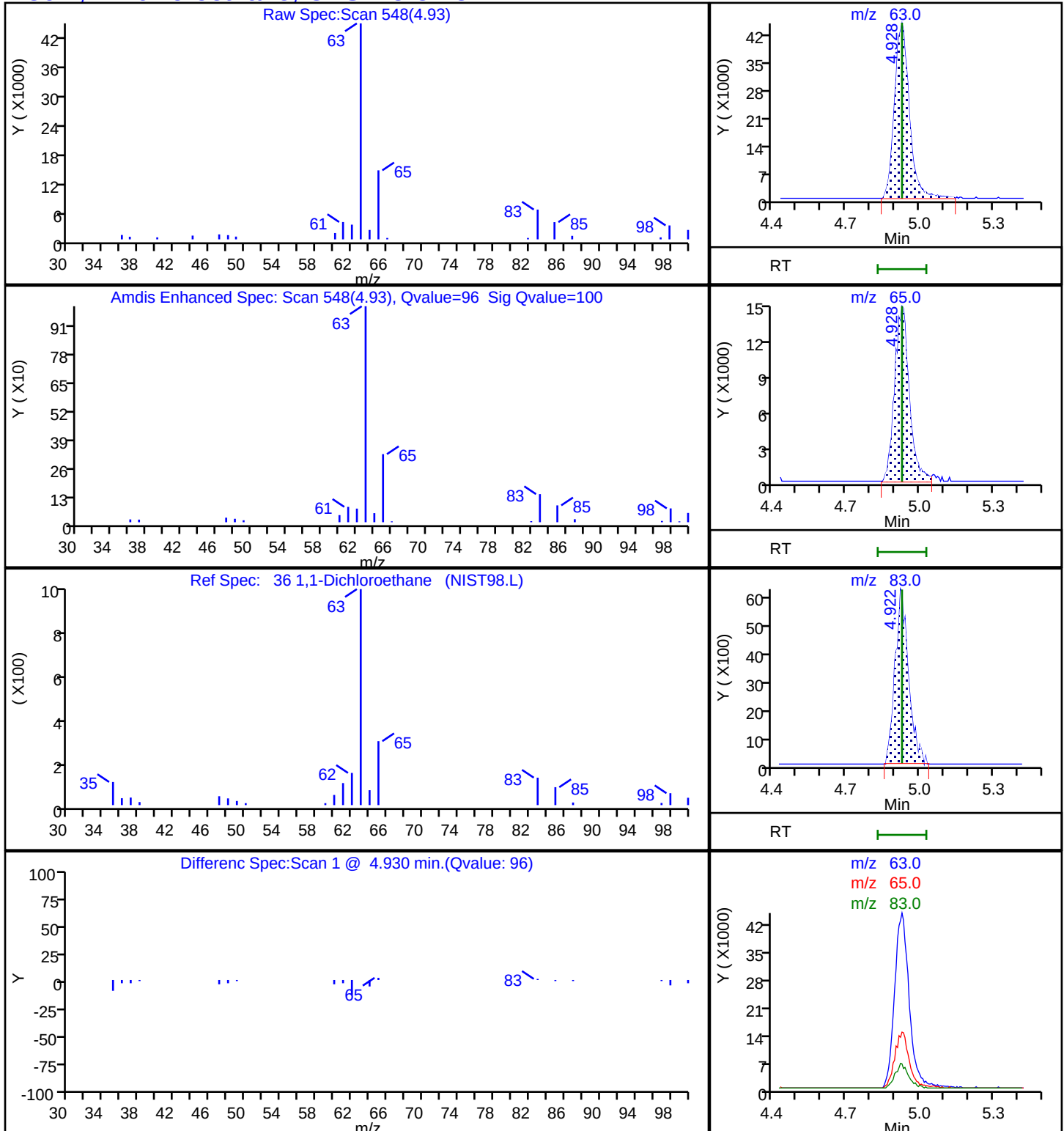
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

36 1,1-Dichloroethane, CAS: 75-34-3

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X59.D

Injection Date: 08-May-2025 07:19:30

Instrument ID: 19094

Lims ID: 410-219242-A-13

Lab Sample ID: 410-219242-13

Client ID: HD-QC1-0/1-1

Operator ID: gaw91131

ALS Bottle#: 29

Worklist Smp#: 30

Purge Vol: 25.000 mL

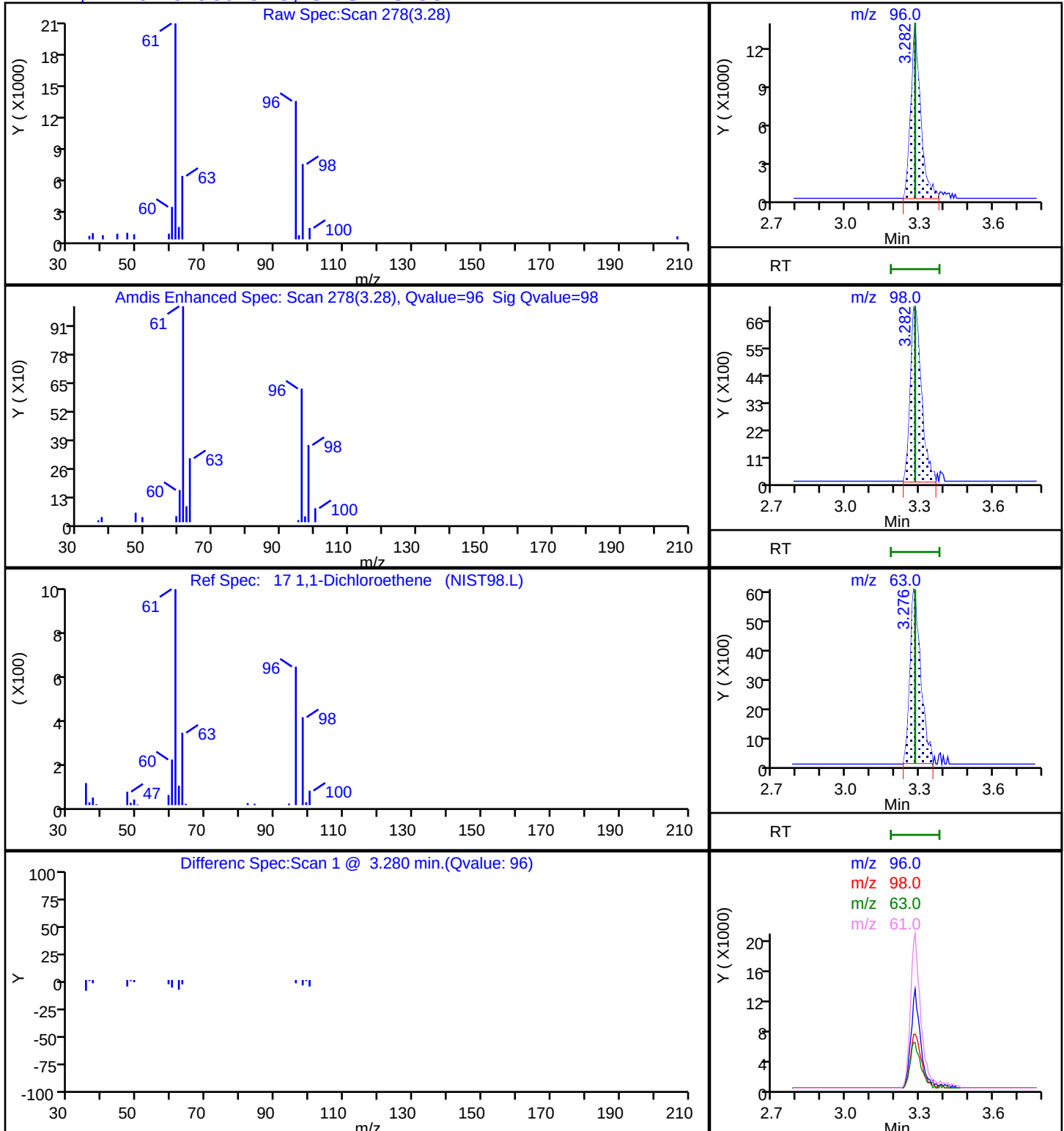
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

17 1,1-Dichloroethene, CAS: 75-35-4

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X59.D

Injection Date: 08-May-2025 07:19:30

Instrument ID: 19094

Lims ID: 410-219242-A-13

Lab Sample ID: 410-219242-13

Client ID: HD-QC1-0/1-1

Operator ID: gaw91131

ALS Bottle#: 29

Worklist Smp#: 30

Purge Vol: 25.000 mL

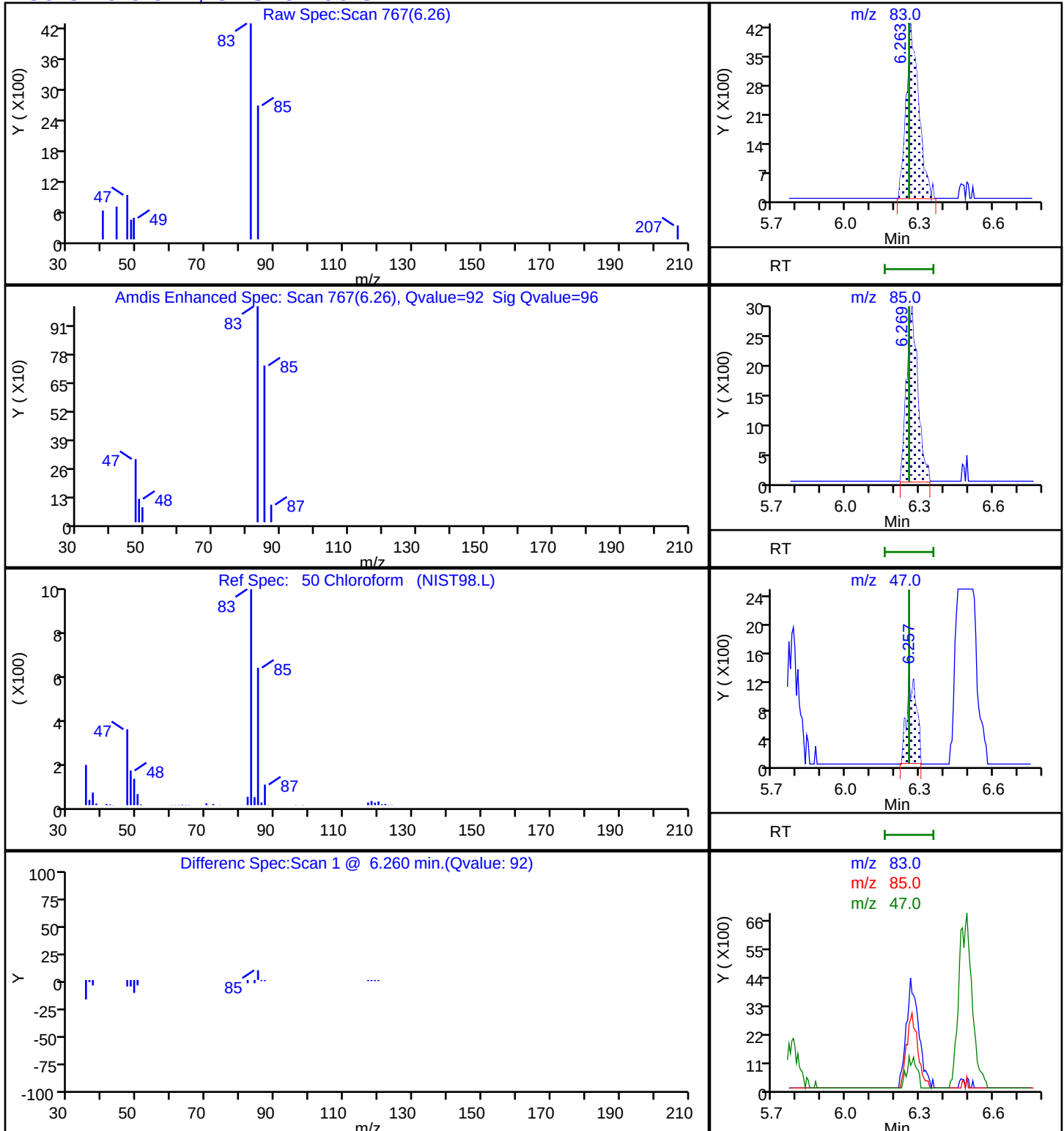
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X59.D

Injection Date: 08-May-2025 07:19:30

Instrument ID: 19094

Lims ID: 410-219242-A-13

Lab Sample ID: 410-219242-13

Client ID: HD-QC1-0/1-1

Operator ID: gaw91131

ALS Bottle#: 29

Worklist Smp#: 30

Purge Vol: 25.000 mL

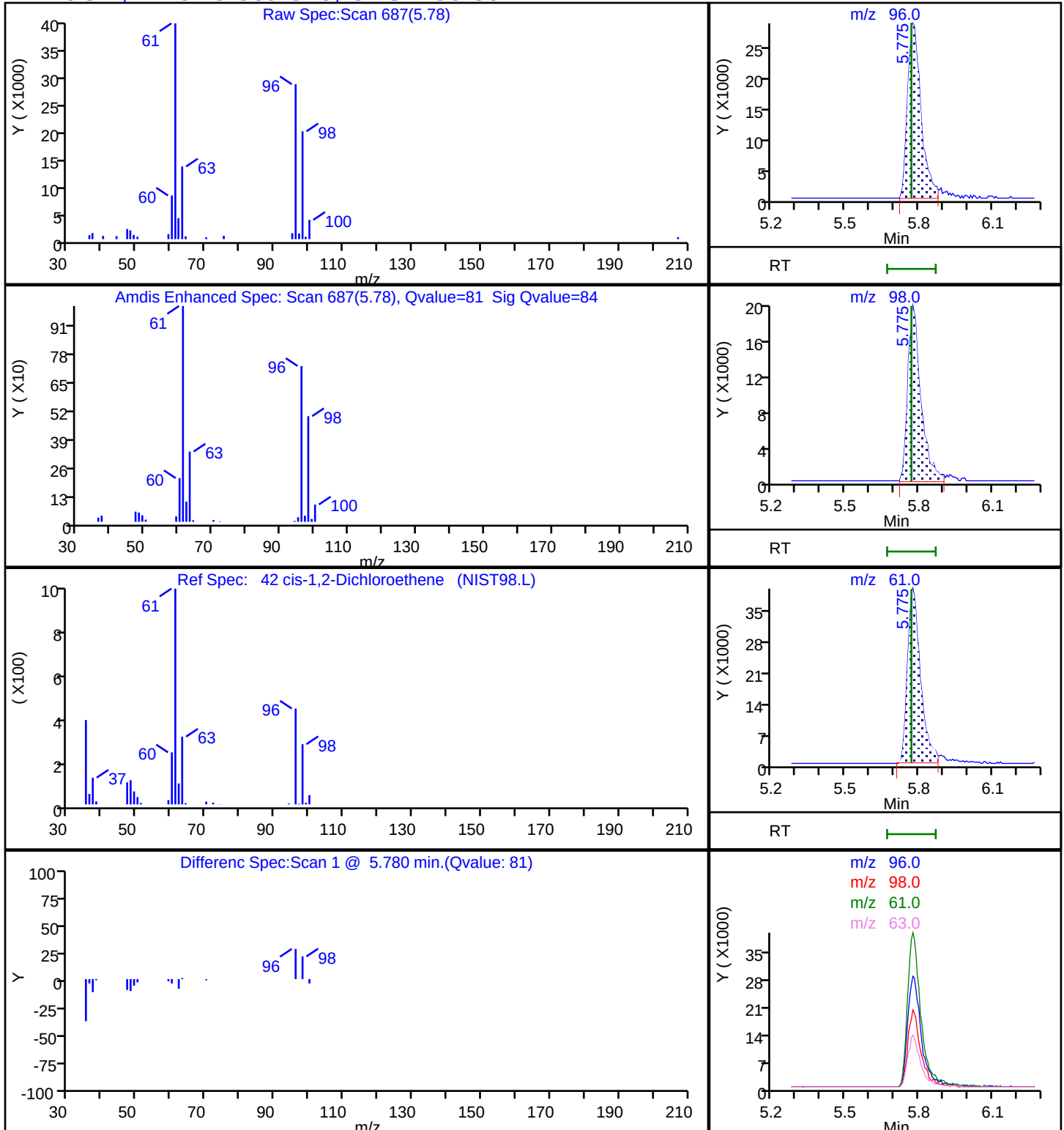
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X59.D

Injection Date: 08-May-2025 07:19:30

Instrument ID: 19094

Lims ID: 410-219242-A-13

Lab Sample ID: 410-219242-13

Client ID: HD-QC1-0/1-1

Operator ID: gaw91131

ALS Bottle#: 29

Worklist Smp#: 30

Purge Vol: 25.000 mL

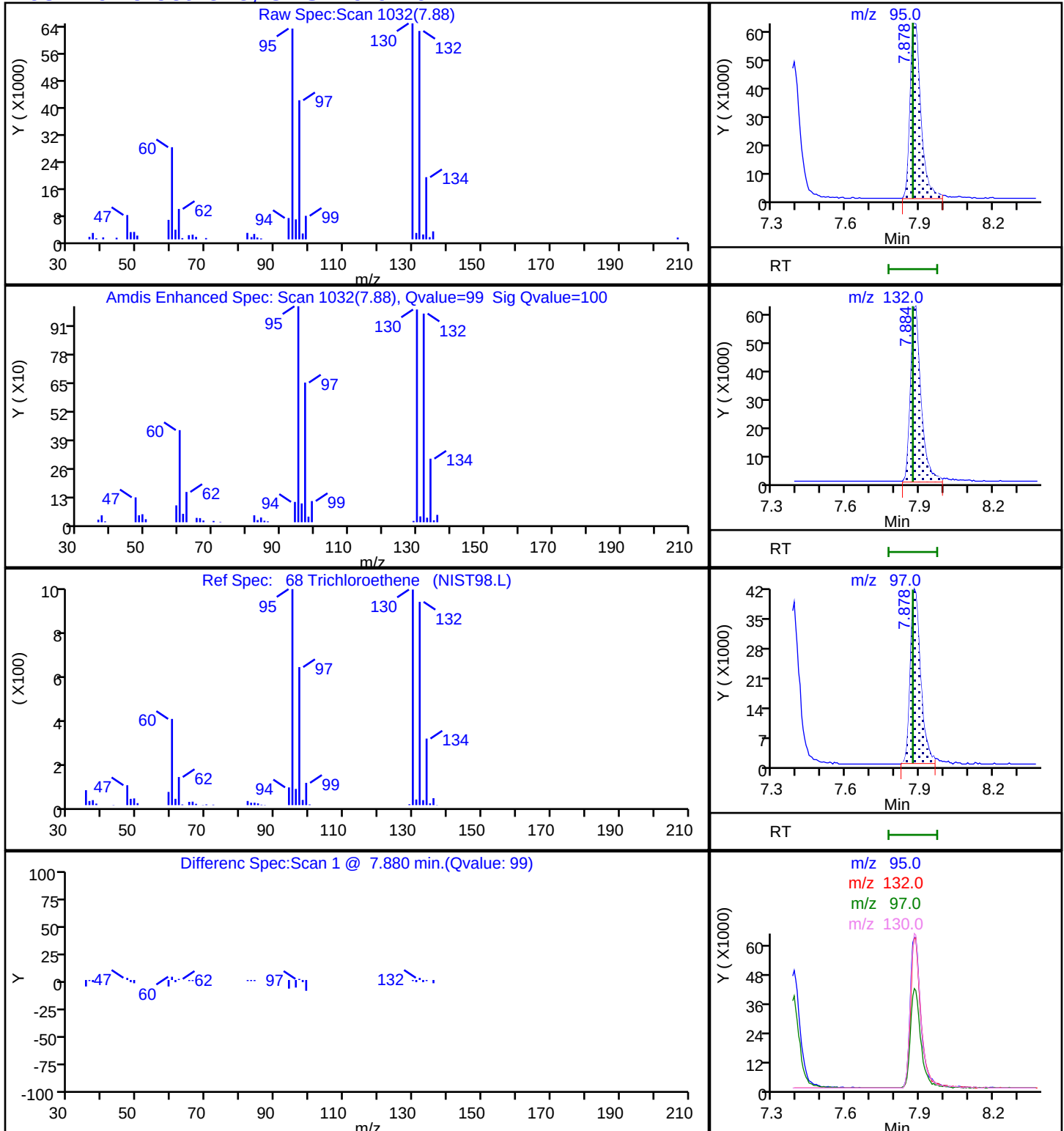
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

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.: 410-219242-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1 DL

Lab Sample ID: 410-219242-13 DL

Matrix: Water

Lab File ID: HY07X60.D

Analysis Method: 8260D

Date Collected: 04/24/2025 12:00

Sample wt/vol: 25 (mL)

Date Analyzed: 05/08/2025 07:40

Soil Aliquot Vol:

Dilution Factor: 20

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 640992

Units: ug/L

Preparation Batch No.:

Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	140		10	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		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\19094\20250507-146489.b\HY07X60.D
 Lims ID: 410-219242-B-13
 Client ID: HD-QC1-0/1-1
 Sample Type: Client
 Inject. Date: 08-May-2025 07:40:30 ALS Bottle#: 30 Worklist Smp#: 31
 Purge Vol: 25.000 mL Dil. Factor: 20.0000
 Sample Info: 410-0146489-031
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 10:21:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.032				ND	
6 Vinyl chloride	62		2.142				ND	
9 Bromomethane	94		2.422				ND	
10 Chloroethane	64		2.507				ND	
17 1,1-Dichloroethene	96	3.288	3.282	0.006	78	1527	0.0398	
19 Acetone	43		3.282				ND	
23 Carbon disulfide	76		3.568				ND	
27 Methylene Chloride	84		3.885				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.897	3.928	-0.031	94	50229	50.0	
32 Methyl tert-butyl ether	73		4.263				ND	
33 trans-1,2-Dichloroethene	96		4.275				ND	
36 1,1-Dichloroethane	63	4.928	4.928	0.000	91	7303	0.0850	
41 2-Butanone (MEK)	43		5.732				ND	
42 cis-1,2-Dichloroethene	96	5.806	5.769	0.037	79	4419	0.0861	
48 Chlorobromomethane	128		6.104				ND	
50 Chloroform	83		6.257				ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.476	6.476	0.000	93	363131	10.1	
53 1,1,1-Trichloroethane	97	6.482	6.494	-0.012	39	36013	0.4964	
56 Carbon tetrachloride	117		6.714				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.933	6.940	-0.007	46	63588	9.98	
59 Benzene	78		6.970				ND	7
60 1,2-Dichloroethane	62	7.055	7.043	0.012	1	1976	0.0473	
* 64 Fluorobenzene (IS)	96	7.385	7.385	0.000	98	1656500	10.0	
68 Trichloroethene	95	7.884	7.872	0.012	91	8129	0.1598	M
70 1,2-Dichloropropane	63		8.208				ND	
76 Dichlorobromomethane	83		8.561				ND	
80 cis-1,3-Dichloropropene	75		9.134				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.317				ND	
\$ 83 Toluene-d8 (Surr)	98	9.457	9.457	0.000	94	1645145	10.0	
84 Toluene	92		9.537				ND	
85 trans-1,3-Dichloropropene	75		9.817				ND	
106 1,1,2-Trichloroethane	97		10.030				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.116	10.116	0.000	98	411610	6.90	
109 2-Hexanone	43		10.250				ND	
111 Chlorodibromomethane	129		10.414				ND	
112 Ethylene Dibromide	107		10.530				ND	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	87	1213861	10.0	
115 Chlorobenzene	112		11.000				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.085				ND	
117 Ethylbenzene	91		11.091				ND	
119 m-Xylene & p-Xylene	106		11.207				ND	
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.542				ND	
121 Styrene	104		11.561				ND	
122 Bromoform	173		11.719				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.000	11.993	0.007	91	565996	9.42	
127 1,1,2,2-Tetrachloroethane	83		12.097				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.890	12.883	0.007	95	622222	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-May-2025 10:22:45

Chrom Revision: 2.3 18-Apr-2025 15:35:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X60.D

Injection Date: 08-May-2025 07:40:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-219242-B-13

Lab Sample ID: 410-219242-13

Worklist Smp#: 31

Client ID: HD-QC1-0/1-1

Purge Vol: 25.000 mL

Dil. Factor: 20.0000

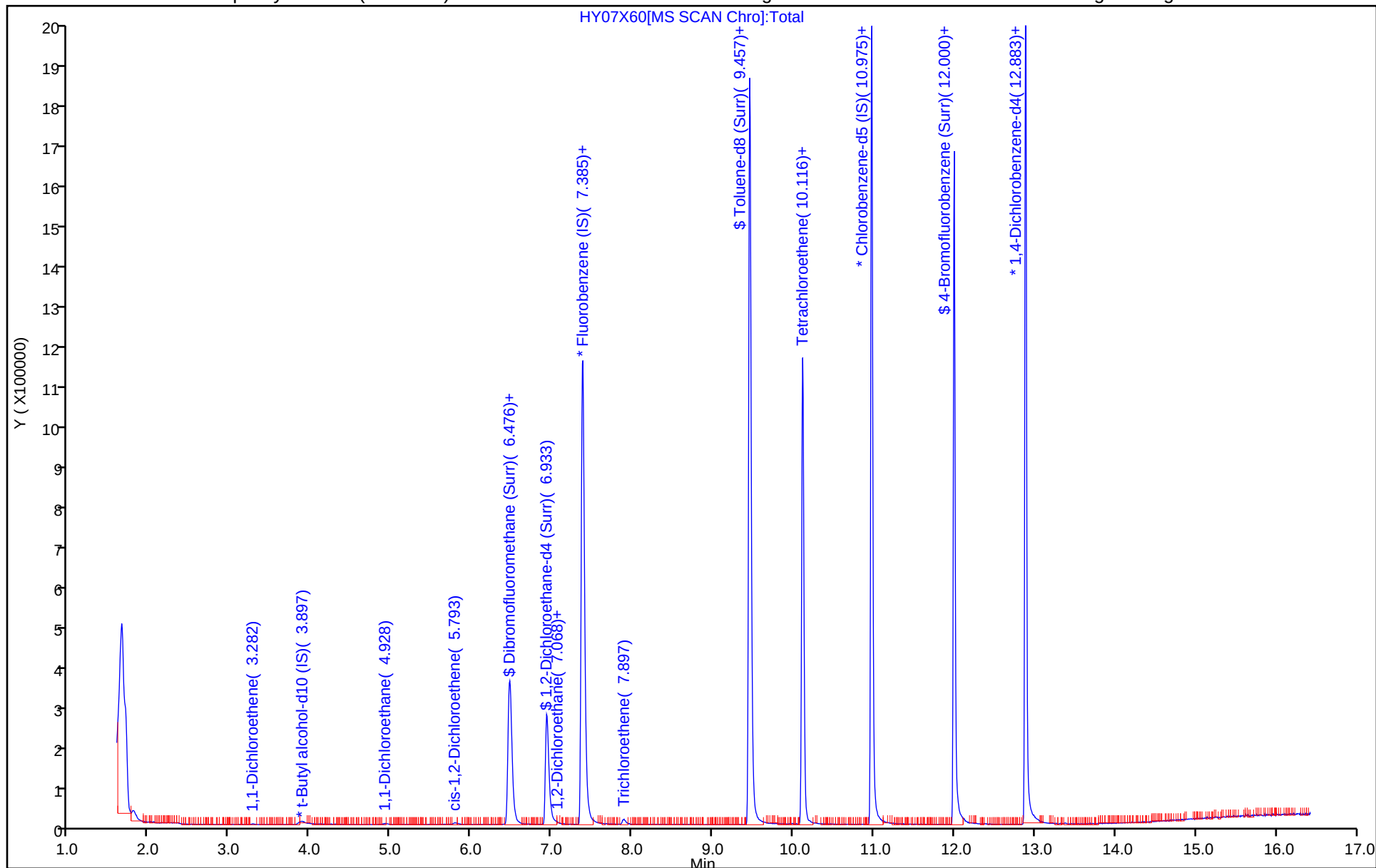
ALS Bottle#: 30

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X60.D
Lims ID: 410-219242-B-13
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 08-May-2025 07:40:30 ALS Bottle#: 30 Worklist Smp#: 31
Purge Vol: 25.000 mL Dil. Factor: 20.0000
Sample Info: 410-0146489-031
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 10:21:00

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.1	100.93
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.98	99.82
\$ 83 Toluene-d8 (Surr)	10.0	10.0	100.17
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.42	94.15

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X60.D

Injection Date: 08-May-2025 07:40:30

Instrument ID: 19094

Lims ID: 410-219242-B-13

Lab Sample ID: 410-219242-13

Client ID: HD-QC1-0/1-1

Operator ID: gaw91131

ALS Bottle#: 30

Worklist Smp#: 31

Purge Vol: 25.000 mL

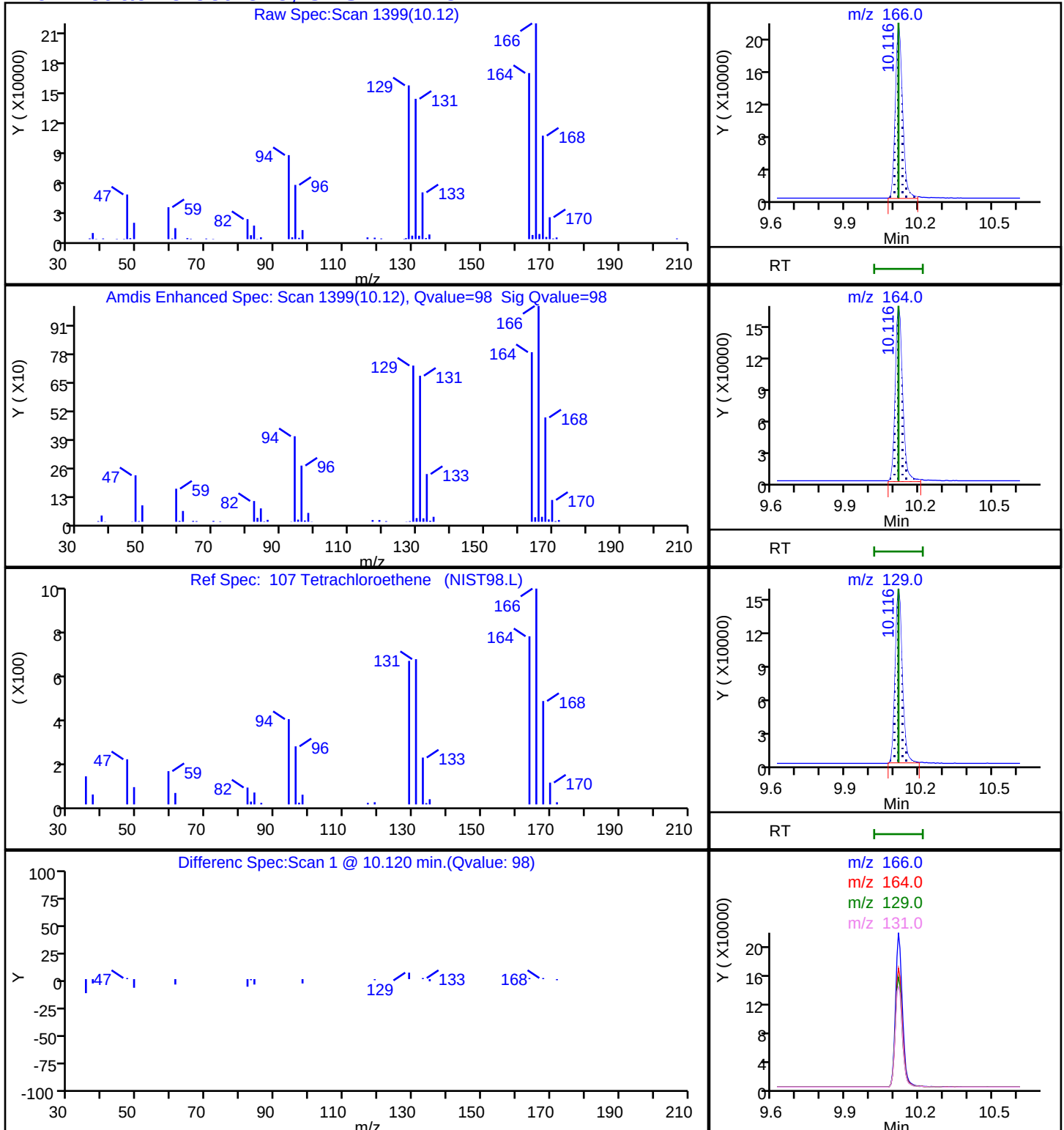
Dil. Factor: 20.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

107 Tetrachloroethene, CAS: 127-18-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-219242-1

SDG No.:

Client Sample ID: HD-QC1-0/1-2

Lab Sample ID: 410-219242-14

Matrix: Water

Lab File ID: HY07X36.D

Analysis Method: 8260D

Date Collected: 04/24/2025 00:00

Sample wt/vol: 25 (mL)

Date Analyzed: 05/07/2025 23:21

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 640992

Units: ug/L

Preparation Batch No.:

Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND	^c cn	5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	0.22	J	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-QC1-0/1-2 Lab Sample ID: 410-219242-14

Matrix: Water Lab File ID: HY07X36.D

Analysis Method: 8260D Date Collected: 04/24/2025 00:00

Sample wt/vol: 25 (mL) Date Analyzed: 05/07/2025 23:21

Soil Aliquot Vol: _____ Dilution Factor: 1

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

Purge Volume: 25.0 (mL) Heated Purge: (Y/N) N pH: _____

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

Analysis Batch No.: 640992 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	ND		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

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)	100		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\19094\20250507-146489.b\HY07X36.D
 Lims ID: 410-219242-A-14
 Client ID: HD-QC1-0/1-2
 Sample Type: Client
 Inject. Date: 07-May-2025 23:21:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0146489-007
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 09:23:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.032				ND	
6 Vinyl chloride	62		2.142				ND	
9 Bromomethane	94		2.422				ND	
10 Chloroethane	64		2.507				ND	
17 1,1-Dichloroethene	96		3.282				ND	
19 Acetone	43		3.282				ND	
23 Carbon disulfide	76	3.574	3.568	0.006	99	27752	0.2151	
27 Methylene Chloride	84		3.885				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.904	3.928	-0.024	98	55333	50.0	
32 Methyl tert-butyl ether	73		4.263				ND	
33 trans-1,2-Dichloroethene	96		4.275				ND	
36 1,1-Dichloroethane	63		4.928				ND	
41 2-Butanone (MEK)	43		5.732				ND	
42 cis-1,2-Dichloroethene	96		5.769				ND	
48 Chlorobromomethane	128		6.104				ND	
50 Chloroform	83		6.257				ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.476	6.476	0.000	94	378279	10.0	
53 1,1,1-Trichloroethane	97		6.494				ND	
56 Carbon tetrachloride	117		6.714				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.940	6.940	0.000	48	67411	10.1	
59 Benzene	78		6.970				ND	
60 1,2-Dichloroethane	62		7.043				ND	
* 64 Fluorobenzene (IS)	96	7.385	7.385	0.000	98	1734925	10.0	
68 Trichloroethene	95		7.872				ND	
70 1,2-Dichloropropane	63		8.208				ND	
76 Dichlorobromomethane	83		8.561				ND	
80 cis-1,3-Dichloropropene	75		9.134				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.317				ND	
\$ 83 Toluene-d8 (Surr)	98	9.463	9.457	0.006	94	1681501	10.1	
84 Toluene	92		9.537				ND	
85 trans-1,3-Dichloropropene	75		9.817				ND	
106 1,1,2-Trichloroethane	97		10.030				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166		10.116				ND	
109 2-Hexanone	43		10.250				ND	
111 Chlorodibromomethane	129		10.414				ND	
112 Ethylene Dibromide	107		10.530				ND	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	87	1234617	10.0	
115 Chlorobenzene	112		11.000				ND	
116 1,1,1,2-Tetrachloroethane	131		11.085				ND	
117 Ethylbenzene	91		11.091				ND	
119 m-Xylene & p-Xylene	106		11.207				ND	
S 118 Xylenes, Total	106		11.245				ND	7
120 o-Xylene	106		11.542				ND	
121 Styrene	104		11.561				ND	
122 Bromoform	173		11.719				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.000	11.993	0.007	91	587282	9.61	
127 1,1,2,2-Tetrachloroethane	83		12.097				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.890	12.883	0.007	95	645319	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-May-2025 10:21:09

Chrom Revision: 2.3 18-Apr-2025 15:35:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X36.D

Injection Date: 07-May-2025 23:21:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-219242-A-14

Lab Sample ID: 410-219242-14

Worklist Smp#: 7

Client ID: HD-QC1-0/1-2

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

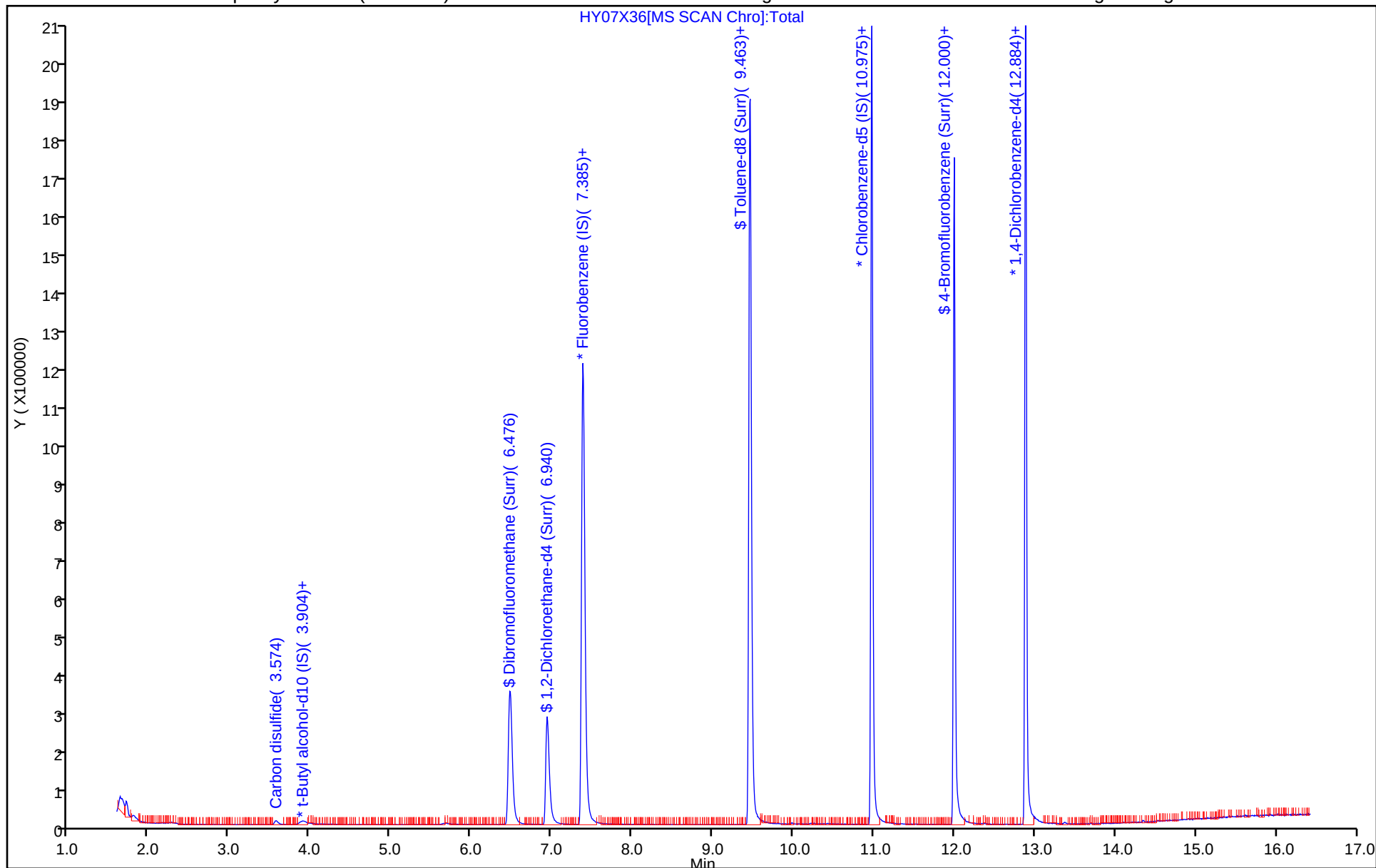
ALS Bottle#: 6

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X36.D
Lims ID: 410-219242-A-14
Client ID: HD-QC1-0/1-2
Sample Type: Client
Inject. Date: 07-May-2025 23:21:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0146489-007
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 09:23:05

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.0	100.39
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	101.04
\$ 83 Toluene-d8 (Surr)	10.0	10.1	100.67
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.61	96.05

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X36.D

Injection Date: 07-May-2025 23:21:30

Instrument ID: 19094

Lims ID: 410-219242-A-14

Lab Sample ID: 410-219242-14

Client ID: HD-QC1-0/1-2

Operator ID: gaw91131

ALS Bottle#: 6

Worklist Smp#: 7

Purge Vol: 25.000 mL

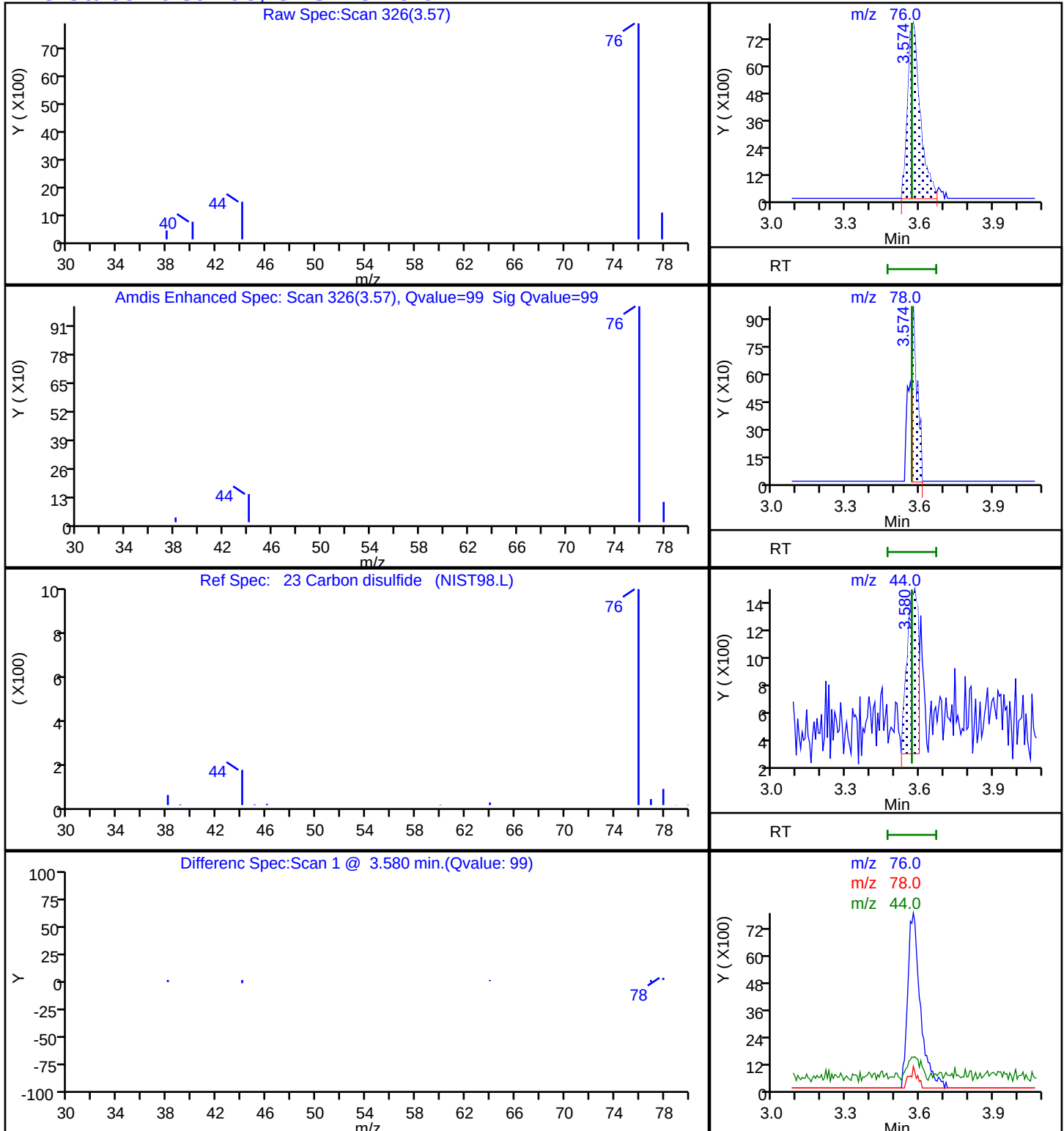
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

23 Carbon disulfide, CAS: 75-15-0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1 Analy Batch No.: 623992
Environment Testing, LLC

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2025 15:52 Calibration End Date: 03/31/2025 18:38 Calibration ID: 71644

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-623992/13	HM31X12.D
Level 2	IC 410-623992/14	HM31X13.D
Level 3	IC 410-623992/15	HM31X14.D
Level 4	IC 410-623992/16	HM31X15.D
Level 5	IC 410-623992/17	HM31X16.D
Level 6	IC 410-623992/18	HM31X17.D
Level 7	IC 410-623992/19	HM31X18.D
Level 8	ICIS 410-623992/20	HM31X19.D
Level 9	IC 410-623992/21	HM31X20.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 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Dichlorodifluoromethane	0.1853 0.3348	0.3384 0.3471	0.3799 0.3331	0.3655 0.3419	0.3623	Ave		0.332 0			0.1000	17.2		20.0			
Chloromethane	0.6302 0.4102	0.5661 0.4239	0.5071 0.4018	0.4288 0.4069	0.4484	Ave		0.469 3			0.1000	17.3		20.0			
1,3-Butadiene	++++ 0.4029	0.4564 0.4093	0.4426 0.4078	0.4462 0.4067	0.4253	Ave		0.424 6				5.0		20.0			
Vinyl chloride	0.3711 0.4076	0.4422 0.3995	0.4343 0.3910	0.4207 0.4064	0.4094	Ave		0.409 1			0.1000	5.3		20.0			
Bromomethane	++++ 0.2712	0.3144 0.2622	0.2791 0.2625	0.2909 0.2683	0.2817	Ave		0.278 8			0.1000	6.3		20.0			
Chloroethane	0.1558 0.2422	0.2436 0.2346	0.2450 0.2338	0.2395 0.2341	0.2427	Ave		0.230 1			0.1000	12.3		20.0			
Dichlorofluoromethane	0.7903 0.6198	0.7270 0.6100	0.6524 0.6124	0.6531 0.6177	0.6278	Ave		0.656 7			0.1000	9.4		20.0			
Trichlorofluoromethane	++++ 0.4716	0.4829 0.4801	0.5037 0.4697	0.4967 0.4834	0.4887	Ave		0.484 6			0.1000	2.4		20.0			
Ethyl ether	++++ 0.1779	0.1234 0.1738	0.1600 0.1736	0.1728 0.1731	0.1807	Ave		0.166 9				11.1		20.0			
Freon 123a	0.2426 0.3691	0.4093 0.3608	0.3895 0.3577	0.3823 0.3708	0.3669	Ave		0.361 0				13.1		20.0			
Acrolein	++++ 3.4408	2.6904 3.5404	3.3494 4.2621	3.6732 3.2602	3.5621	Ave		3.472 3				12.6		20.0			
1,1-Dichloroethene	0.1693 0.2369	0.2637 0.2322	0.2410 0.2306	0.2497 0.2339	0.2287	Ave		0.231 8			0.1000	11.2		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.: 410-219242-1 Analy Batch No.: 623992
Environment Testing, LLC

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2025 15:52 Calibration End Date: 03/31/2025 18:38 Calibration ID: 71644

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 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Freon 113	++++ 0.2646	0.2225 0.2609	0.2594 0.2604	0.2741 0.2637	0.2422	Ave		0.256 0			0.1000	6.3		20.0			
Acetone	++++ 3.4570	4.8593 3.1872	3.3118 3.5850	3.8099 3.4267	3.7494	Ave		3.673 3			0.1000	14.2		20.0			
Methyl iodide	0.3164 0.4599	0.4557 0.4560	0.4654 0.4558	0.4877 0.4498	0.4607	Ave		0.445 3				11.1		20.0			
Ethyl bromide	++++ 0.2154	0.2055 0.2140	0.2208 0.2204	0.2144 0.2143	0.2162	Ave		0.215 1				2.2		20.0			
Carbon disulfide	0.9008 0.7009	0.8162 0.7057	0.7301 0.7019	0.7419 0.7102	0.6844	Ave		0.743 6			0.1000	9.5		20.0			
Methyl acetate	++++ 6.7757	++++ 9.4580	++++ 13.201	4.2406 11.940	8.4175	Lin	-5.63 3	12.31 4			0.1000				0.9950		0.9900
Allyl chloride	0.5215 0.4560	0.5627 0.4479	0.5032 0.4545	0.4981 0.4527	0.4617	Ave		0.484 3				8.2		20.0			
Methylene Chloride	0.1581 0.2509	0.2627 0.2504	0.2617 0.2464	0.2729 0.2416	0.2485	Ave		0.243 7			0.1000	13.8		20.0			
t-Butyl alcohol	++++ 0.9146	++++ 1.0194	0.8519 1.0647	1.2347 0.9371	1.1125	Ave		1.019 3				12.8		20.0			
Acrylonitrile	++++ 4.3680	++++ 4.7289	++++ 6.4279	0.7597 6.3700	3.9563	Lin	-10.1 1	6.540 7							0.9980		0.9900
Methyl tert-butyl ether	++++ 0.5398	0.5759 0.5163	0.5303 0.5056	0.5736 0.5177	0.5530	Ave		0.539 0			0.1000	4.9		20.0			
trans-1,2-Dichloroethene	0.1838 0.2686	0.2798 0.2643	0.2591 0.2685	0.2794 0.2693	0.2637	Ave		0.259 6			0.1000	11.3		20.0			
n-Hexane	++++ 0.4047	0.3743 0.4066	0.3777 0.4050	0.4047 0.4101	0.3523	Ave		0.391 9				5.4		20.0			
1,1-Dichloroethane	0.3986 0.5250	0.5815 0.5264	0.5279 0.5264	0.5489 0.5221	0.5128	Ave		0.518 9			0.2000	9.5		20.0			
di-Isopropyl ether	0.6845 0.9175	0.9375 0.9072	0.9080 0.9094	0.9597 0.9172	0.9189	Ave		0.895 5				9.0		20.0			
2-Chloro-1,3-butadiene	++++ 0.4500	0.4647 0.4601	0.4484 0.4629	0.4638 0.4716	0.4229	Ave		0.455 6				3.3		20.0			
Ethyl t-butyl ether	0.6906 0.7984	0.8492 0.7754	0.8240 0.7697	0.8684 0.7741	0.8003	Ave		0.794 4				6.5		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.: 410-219242-1 Analy Batch No.: 623992
Environment Testing, LLC

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2025 15:52 Calibration End Date: 03/31/2025 18:38 Calibration ID: 71644

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 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Butanone (MEK)	+++++ 6.0243	+++++ 6.6519	+++++ 8.8938	5.1531 8.1963	6.2081	Ave		6.935 7			0.1000	18.9		20.0			
cis-1,2-Dichloroethene	+++++ 0.3051	0.3461 0.2986	0.2910 0.3040	0.3239 0.3019	0.3070	Ave		0.309 7			0.1000	5.6		20.0			
2,2-Dichloropropane	0.3044 0.4473	0.4463 0.4461	0.4561 0.4411	0.4705 0.4475	0.4286	Ave		0.432 0				11.4		20.0			
Propionitrile	+++++ 1.4591	+++++ 1.6866	+++++ 1.9062	1.3758 1.9997	1.4518	Ave		1.646 5				15.8		20.0			
Methacrylonitrile	+++++ 7.1410	+++++ 8.2101	+++++ 11.168	7.7494 9.8791	7.1277	Lin	-25.6 1	10.12 3							0.9950		0.9900
Bromochloromethane	+++++ 0.1143	0.0602 0.1128	0.1065 0.1099	0.1212 0.1098	0.1168	Ave		0.106 4				18.1		20.0			
Tetrahydrofuran	+++++ 1.7923	+++++ 2.0988	1.2216 2.6978	1.7345 2.4452	1.9415	Lin1	-1.89 5	2.469 0							0.9930		0.9900
Chloroform	0.3464 0.4968	0.5321 0.4900	0.4874 0.4888	0.5286 0.4943	0.4896	Ave		0.483 8			0.2000	11.2		20.0			
1,1,1-Trichloroethane	0.2932 0.4431	0.5180 0.4442	0.4541 0.4448	0.4674 0.4502	0.4268	Ave		0.438 0			0.1000	13.7		20.0			
Cyclohexane	0.2970 0.5343	0.5492 0.5290	0.5439 0.5265	0.5567 0.5342	0.4897	Ave		0.506 7			0.1000	16.0		20.0			
1,1-Dichloropropene	0.3373 0.4185	0.4636 0.4274	0.4217 0.4245	0.4334 0.4381	0.4022	Ave		0.418 5				8.3		20.0			
Carbon tetrachloride	+++++ 0.3949	0.3621 0.3965	0.3841 0.3992	0.3914 0.4128	0.3707	Ave		0.388 9			0.1000	4.2		20.0			
Isobutyl alcohol	+++++ 0.3420	+++++ 0.3672	0.2812 0.3789	0.3001 0.3705	0.3544	Ave		0.342 1				10.9		20.0			
Benzene	1.1039 1.1950	1.2285 1.1878	1.2147 1.2031	1.2795 1.2108	1.1950	Ave		1.202 0			0.5000	3.8		20.0			
1,2-Dichloroethane	+++++ 0.2586	0.2071 0.2521	0.2643 0.2518	0.2683 0.2573	0.2569	Ave		0.252 1			0.1000	7.5		20.0			
t-Amyl methyl ether	0.5355 0.6451	0.7257 0.6230	0.6321 0.6134	0.6663 0.6329	0.6451	Ave		0.635 5				7.9		20.0			
n-Heptane	0.3622 0.3836	0.3840 0.3985	0.3706 0.3972	0.3452 0.4105	0.2989	Ave		0.372 3				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.: 410-219242-1 Analy Batch No.: 623992
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2025 15:52 Calibration End Date: 03/31/2025 18:38 Calibration ID: 71644

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 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
n-Butanol	+++++ 0.2206	+++++ 0.2679	+++++ 0.2443	0.1273 0.2539	0.1830	Lin	-4.46 5	0.255 7							0.9990		0.9900
Trichloroethene	+++++ 0.3037	0.3128 0.3076	0.3042 0.3121	0.3073 0.3135	0.2949	Ave		0.307 n			0.2000	2.0		20.0			
Methylcyclohexane	0.2696 0.5370	0.5221 0.5411	0.5320 0.5360	0.5239 0.5511	0.4693	Ave		0.498 n			0.1000	17.8		20.0			
1,2-Dichloropropane	0.1728 0.3016	0.2989 0.2994	0.3103 0.3018	0.3131 0.3075	0.2993	Ave		0.289 4			0.1000	15.2		20.0			
Methyl methacrylate	+++++ 14.651	+++++ 16.344	+++++ 24.508	14.718 20.994	12.935	Lin	-6.73 1	21.64 7							0.9910		0.9900
1,4-Dioxane	+++++ 0.0559	+++++ 0.0543	+++++ 0.0511	+++++ 0.0472	0.0350	Ave		0.048 7			0.0050	17.1		20.0			
Dibromomethane	+++++ 0.1141	0.0799 0.1112	0.1084 0.1111	0.1145 0.1148	0.1144	Ave		0.108 5				10.9		20.0			
Bromodichloromethane	0.2293 0.3276	0.3289 0.3312	0.3153 0.3364	0.3395 0.3425	0.3302	Ave		0.320 1			0.2000	10.9		20.0			
2-Nitropropane	+++++ 4.2211	6.6145 4.4677	6.5103 5.8512	4.8123 5.3738	4.3572	Ave		5.276 n				18.2		20.0			
1-Bromo-2-chloroethane	+++++ 0.2536	0.2147 0.2528	0.2483 0.2601	0.2527 0.2581	0.2565	Ave		0.249 6				5.8		20.0			
cis-1,3-Dichloropropene	+++++ 0.4146	0.3991 0.4164	0.3943 0.4240	0.3977 0.4311	0.4076	Ave		0.410 6			0.2000	3.2		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 19.135	+++++ 20.156	18.855 27.199	20.104 24.334	20.004	Ave		21.39 8			0.1000	14.7		20.0			
Toluene	0.9490 1.0642	1.1294 1.0536	1.0876 1.0631	1.0949 1.0749	1.0339	Ave		1.061 2			0.4000	4.7		20.0			
trans-1,3-Dichloropropene	+++++ 0.4306	0.3022 0.4429	0.3784 0.4544	0.4204 0.4678	0.4181	Ave		0.414 4			0.1000	12.7		20.0			
Ethyl methacrylate	+++++ 0.3267	0.1648 0.3278	0.2715 0.3249	0.3001 0.3393	0.2916	Ave		0.293 3				19.3		20.0			
1,1,2-Trichloroethane	+++++ 0.2309	0.2250 0.2244	0.2182 0.2242	0.2392 0.2306	0.2288	Ave		0.227 7			0.1000	2.7		20.0			
Tetrachloroethene	0.5077 0.4772	0.5550 0.4840	0.4666 0.4898	0.4811 0.4970	0.4620	Ave		0.491 2			0.2000	5.7		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.: 410-219242-1 Analy Batch No.: 623992
Environment Testing, LLC

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2025 15:52 Calibration End Date: 03/31/2025 18:38 Calibration ID: 71644

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 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,3-Dichloropropane	++++ 0.4291	0.3813 0.4168	0.3750 0.4174	0.4231 0.4230	0.4150	Ave		0.410 1				4.9		20.0			
2-Hexanone	++++ 12.264	++++ 13.348	8.0967 18.121	10.800 16.345	12.338	Lin1	-27.0 6	16.46 2			0.1000				0.9910		0.9900
Dibromochloromethane	0.1768 0.3004	0.2912 0.3017	0.2647 0.3018	0.2991 0.3128	0.2883	Ave		0.281 9				14.8		20.0			
1,2-Dibromoethane (EDB)	++++ 0.2171	0.1603 0.2169	0.1988 0.2136	0.2141 0.2201	0.2092	Ave		0.206 3			0.1000	9.6		20.0			
1-Chlorohexane	++++ 0.5979	0.9603 0.6112	0.6545 0.6220	0.6044 0.6290	0.5575	Ave		0.654 6				19.3		20.0			
Chlorobenzene	1.0255 1.1326	1.2125 1.1210	1.1393 1.1353	1.1776 1.1483	1.1030	Ave		1.132 8			0.5000	4.5		20.0			
1,1,1,2-Tetrachloroethane	0.2953 0.3919	0.3357 0.3816	0.3909 0.3854	0.3924 0.4015	0.3837	Ave		0.373 2				9.3		20.0			
Ethylbenzene	1.8275 2.0747	2.2015 2.0752	2.0205 2.1310	2.1321 2.1693	2.0398	Ave		2.074 6			0.1000	5.3		20.0			
m&p-Xylene	0.6632 0.7977	0.7569 0.7909	0.7612 0.8097	0.8148 0.8271	0.7744	Ave		0.777 3			0.1000	6.3		20.0			
o-Xylene	0.6241 0.7659	0.6694 0.7635	0.7435 0.7780	0.8024 0.7905	0.7479	Ave		0.742 8			0.3000	7.9		20.0			
Styrene	0.7945 1.1992	1.0479 1.2179	1.1118 1.2516	1.1914 1.2747	1.1636	Ave		1.139 2			0.3000	12.9		20.0			
Bromoform	++++ 0.1677	0.1055 0.1669	0.1377 0.1659	0.1678 0.1769	0.1594	Ave		0.156 0			0.1000	15.0		20.0			
Isopropylbenzene	1.6332 1.7913	1.8358 1.8002	1.7540 1.8582	1.8565 1.8749	1.7365	Ave		1.793 4			0.1000	4.3		20.0			
1,1,2,2-Tetrachloroethane	++++ 0.5200	++++ 0.5058	++++ 0.4716	0.5345 0.5006	0.5242	Ave		0.491 9			0.3000	10.3		20.0			
Bromobenzene	0.7338 0.8463	0.7726 0.8168	0.8076 0.8145	0.8638 0.8265	0.8162	Ave		0.810 9				4.7		20.0			
trans-1,4-Dichloro-2-butene	++++ 7.2434	++++ 7.8330	++++ 11.028	7.7169 9.9066	7.2008	Ave		8.488 1				18.8		20.0			
1,2,3-Trichloropropane	++++ 0.1306	0.0866 0.1257	0.1173 0.1140	0.1326 0.1229	0.1281	Ave		0.119 7				12.4		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.: 410-219242-1 Analy Batch No.: 623992
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2025 15:52 Calibration End Date: 03/31/2025 18:38 Calibration ID: 71644

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 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
N-Propylbenzene	3.7697 4.4867	4.3674 4.4954	4.2050 4.5770	4.3599 4.6236	4.1473	Ave		4.336 9				6.1		20.0			
2-Chlorotoluene	0.6383 0.8976	0.9283 0.8896	0.8688 0.8830	0.8933 0.9067	0.8717	Ave		0.864 1				10.0		20.0			
1,3,5-Trimethylbenzene	2.3479 3.1237	3.1158 3.1299	2.9530 3.1981	3.2275 3.2654	3.0077	Ave		3.041 0				9.1		20.0			
4-Chlorotoluene	++++ 0.8860	0.8337 0.9073	0.8715 0.9048	0.8711 0.9197	0.8865	Ave		0.885 1				3.1		20.0			
tert-Butylbenzene	0.4856 0.7210	0.6716 0.7242	0.6919 0.7304	0.7047 0.7415	0.6814	Ave		0.683 6				11.4		20.0			
Pentachloroethane	0.4298 0.5113	0.4625 0.5190	0.4559 0.5419	0.4842 0.5550	0.5167	Ave		0.497 4				8.4		20.0			
1,2,4-Trimethylbenzene	2.6741 3.2162	3.1420 3.1591	3.0266 3.2465	3.1954 3.3300	3.0348	Ave		3.113 8				6.1		20.0			
sec-Butylbenzene	3.2868 3.8568	3.7086 3.9619	3.5749 4.0521	3.8150 4.1069	3.5965	Ave		3.773 3				6.9		20.0			
1,3-Dichlorobenzene	1.3599 1.6316	1.5948 1.6516	1.5386 1.6596	1.6411 1.7211	1.5652	Ave		1.595 9			0.6000	6.5		20.0			
p-Isopropyltoluene	2.5860 3.3184	2.8647 3.4286	3.0716 3.5234	3.2643 3.6194	3.1242	Ave		3.200 1				10.3		20.0			
1,4-Dichlorobenzene	1.8448 1.6390	1.8334 1.6303	1.5969 1.6450	1.7537 1.6941	1.6368	Ave		1.697 1			0.5000	5.4		20.0			
1,2,3-Trimethylbenzene	1.5630 1.4137	1.3588 1.3923	1.3983 1.4062	1.4374 1.4412	1.3312	Ave		1.415 8				4.6		20.0			
Benzyl chloride	++++ 0.2072	++++ 0.2085	0.1716 0.1970	0.1782 0.2131	0.1934	Ave		0.195 6				8.1		20.0			
n-Butylbenzene	1.2173 1.5052	1.3303 1.6028	1.1410 1.6777	1.3863 1.7542	1.3668	Ave		1.442 4				14.4		20.0			
1,2-Dichlorobenzene	1.0122 1.4483	1.3641 1.4074	1.3781 1.4138	1.5106 1.4696	1.4068	Ave		1.379 0			0.4000	10.5		20.0			
1,2-Dibromo-3-Chloropropane	++++ 0.0634	++++ 0.0632	0.0292 0.0558	0.0512 0.0646	0.0613	Lin2	-0.00 7	0.064 0			0.0500				0.9950		0.9900
1,3,5-Trichlorobenzene	0.9113 1.2053	1.0581 1.2334	1.0646 1.2775	1.1311 1.3349	1.1471	Ave		1.151 5				11.2		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.: 410-219242-1 Analy Batch No.: 623992
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2025 15:52 Calibration End Date: 03/31/2025 18:38 Calibration ID: 71644

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 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,2,4-Trichlorobenzene	0.4977 0.9306	0.7307 0.9721	0.8258 1.0012	0.8929 1.0480	0.8645	Ave		0.862 6			0.2000	19.4		20.0			
Hexachlorobutadiene	++++ 0.4062	0.4087 0.4337	0.3489 0.4578	0.3985 0.4965	0.3589	Ave		0.413 6				11.8		20.0			
Naphthalene	++++ 1.4826	1.2629 1.4841	1.1912 1.4203	1.3194 1.5109	1.3895	Ave		1.382 6				8.3		20.0			
1,2,3-Trichlorobenzene	0.6847 0.8051	0.6638 0.8036	0.6452 0.8170	0.7490 0.8465	0.7454	Ave		0.751 1				9.7		20.0			
Dibromofluoromethane (Surr)	0.2159 0.2164	0.2174 0.2182	0.2153 0.2151	0.2195 0.2160	0.2209	Ave		0.217 2				0.9		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0387 0.0389	0.0389 0.0391	0.0378 0.0380	0.0386 0.0378	0.0383	Ave		0.038 5				1.3		20.0			
Toluene-d8 (Surr)	1.3428 1.3572	1.3485 1.3570	1.3409 1.3652	1.3468 1.3562	1.3619	Ave		1.353 0				0.6		20.0			
4-Bromofluorobenzene (Surr)	0.4953 0.4965	0.4965 0.4951	0.4890 0.4929	0.4991 0.4983	0.4943	Ave		0.495 2				0.6		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.: 410-219242-1 Analy Batch No.: 623992
Environment Testing, LLC

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2025 15:52 Calibration End Date: 03/31/2025 18:38 Calibration ID: 71644

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-623992/13	HM31X12.D
Level 2	IC 410-623992/14	HM31X13.D
Level 3	IC 410-623992/15	HM31X14.D
Level 4	IC 410-623992/16	HM31X15.D
Level 5	IC 410-623992/17	HM31X16.D
Level 6	IC 410-623992/18	HM31X17.D
Level 7	IC 410-623992/19	HM31X18.D
Level 8	ICIS 410-623992/20	HM31X19.D
Level 9	IC 410-623992/21	HM31X20.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dichlorodifluoromethane	FB	Ave	728 136393	3992 358196	15352 684822	36910 1816726	72799	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Chloromethane	FB	Ave	2476 167072	6677 437415	20496 825996	43310 2161862	90109	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
1,3-Butadiene	FB	Ave	++++ 164104	5384 422391	17886 838276	45061 2160964	85474	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Vinyl chloride	FB	Ave	1458 166041	5216 412199	17554 803735	42493 2159447	82274	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Bromomethane	FB	Ave	++++ 110452	3708 270574	11280 539560	29377 1425463	56620	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Chloroethane	FB	Ave	612 98650	2874 242113	9902 480520	24185 1243904	48775	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Dichlorofluoromethane	FB	Ave	3105 252470	8575 629396	26365 1258835	65964 3282329	126158	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Trichlorofluoromethane	FB	Ave	++++ 192097	5696 495457	20359 965453	50165 2568839	98214	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Ethyl ether	FB	Ave	++++ 72449	1456 179311	6464 356906	17447 919504	36308	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.000
Freon 123a	FB	Ave	953 150349	4828 372262	15743 735418	38612 1970457	73739	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Acrolein	TBA d10	Ave	++++ 443372	10927 1073332	36066 1748458	111531 4249542	217891	++++ 97.6	2.93 244	9.76 488	24.4 1220	48.8
1,1-Dichloroethene	FB	Ave	665 96491	3110 239637	9738 474094	25221 1242808	45970	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Freon 113	FB	Ave	++++ 107791	2625 269240	10483 535287	27678 1401381	48672	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-219242-1

Analy Batch No.: 623992

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2025 15:52 Calibration End Date: 03/31/2025 18:38 Calibration ID: 71644

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Acetone	TBA01	Ave	++++ 91302	4045 198038	7309 301424	23710 915437	47006	++++ 20.0	0.600 50.0	2.00 100	5.00 250	10.0
Methyl iodide	FB	Ave	1243 187338	5375 470589	18810 936883	49252 2390067	92574	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Ethyl bromide	FB	Ave	++++ 87871	2428 221176	8936 453735	21688 1140749	43524	++++ 2.00	0.0601 5.01	0.200 10.0	0.501 25.0	1.00
Carbon disulfide	FB	Ave	3539 285486	9628 728169	29505 1442928	74928 3773894	137547	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Methyl acetate	TBA01	Lin	++++ 17895	++++ 58768	++++ 110992	2639 318970	10553	++++ 2.00	++++ 5.00	++++ 10.0	0.500 25.0	1.00
Allyl chloride	FB	Ave	2049 185757	6637 462200	20336 934273	50301 2405398	92791	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Methylene Chloride	FB	Ave	621 102190	3099 258365	10577 506569	27565 1283561	49931	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
t-Butyl alcohol	TBA01	Ave	++++ 48312	++++ 126686	3760 179047	15367 500668	27896	++++ 40.0	++++ 100	4.00 200	10.0 500	20.0
Acrylonitrile	TBA01	Lin	++++ 28840	++++ 73458	++++ 135115	1182 425436	12400	++++ 5.00	++++ 12.5	++++ 25.0	1.25 62.5	2.50
Methyl tert-butyl ether	FB	Ave	++++ 219886	6793 532777	21433 1039257	57929 2750917	111127	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
trans-1,2-Dichloroethene	FB	Ave	722 109427	3300 272734	10470 552036	28213 1431144	53002	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
n-Hexane	FB	Ave	++++ 164844	4415 419580	15265 832592	40876 2179243	70794	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
1,1-Dichloroethane	FB	Ave	1566 213861	6859 543197	21337 1082044	55440 2774130	103058	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
di-Isopropyl ether	FB	Ave	2689 373726	11058 936172	36695 1869370	96920 4873821	184660	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
2-Chloro-1,3-butadiene	FB	Ave	++++ 183306	5481 474718	18123 951627	46842 2506048	84992	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Ethyl t-butyl ether	FB	Ave	2713 325196	10017 800084	33301 1582202	87709 4113367	160821	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
2-Butanone (MEK)	TBA01	Ave	++++ 159105	++++ 413320	++++ 747791	32069 2189644	77831	++++ 20.0	++++ 50.0	++++ 100	5.00 250	10.0
cis-1,2-Dichloroethene	FB	Ave	++++ 124277	4082 308170	11760 624945	32713 1604222	61691	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-219242-1

Analy Batch No.: 623992

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2025 15:52 Calibration End Date: 03/31/2025 18:38 Calibration ID: 71644

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
2,2-Dichloropropane	FB	Ave	1196 182207	5265 460293	18433 906807	47516 2378090	86126	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Propionitrile	TBAd1 0	Ave	++++ 77073	++++ 209596	++++ 320549	17124 1068421	36402	++++ 40.0	++++ 100	++++ 200	10.0 500	20.0
Methacrylonitrile	TBAd1 0	Lin	++++ 188597	++++ 510141	++++ 939001	48226 2639198	89360	++++ 20.0	++++ 50.0	++++ 100	5.00 250	10.0
Bromochloromethane	FB	Ave	++++ 46551	710 116433	4306 225958	12240 583204	23464	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Tetrahydrofuran	TBAd1 0	Lin1	++++ 23668	++++ 65206	1348 113415	5397 326622	12170	++++ 10.0	++++ 25.0	1.00 50.0	2.50 125	5.00
Chloroform	FB	Ave	1361 202361	6276 505612	19697 1004861	53382 2626503	98398	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
1,1,1-Trichloroethane	FB	Ave	1152 180500	6110 458327	18354 914274	47209 2392335	85774	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Cyclohexane	FB	Ave	1167 217619	6478 545908	21980 1082353	56222 2838389	98404	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
1,1-Dichloropropene	FB	Ave	1325 170477	5469 441004	17042 872697	43771 2327796	80823	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Carbon tetrachloride	FB	Ave	++++ 160856	4271 409159	15522 820643	39525 2193314	74493	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Isobutyl alcohol	TBAd1 0	Ave	++++ 45165	++++ 114092	3103 159298	9339 494957	22216	++++ 100	++++ 250	10.0 500	25.0 1250	50.0
Benzene	FB	Ave	4337 486750	14491 1225660	49092 2473254	129223 6433627	240158	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
1,2-Dichloroethane	FB	Ave	++++ 105345	2443 260178	10681 517655	27093 1367284	51635	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
t-Amyl methyl ether	FB	Ave	2104 262765	8560 642861	25548 1260937	67292 3362992	129644	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
n-Heptane	FB	Ave	1423 156250	4529 411161	14976 816417	34859 2181076	60070	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
n-Butanol	TBAd1 0	Lin	++++ 50969	++++ 145645	++++ 179700	6930 593492	20079	++++ 175	++++ 438	++++ 875	43.8 2188	87.5
Trichloroethene	FB	Ave	++++ 123692	3690 317432	12293 641479	31039 1665996	59260	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Methylcyclohexane	FB	Ave	1059 218733	6158 558368	21501 1101781	52911 2928143	94307	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-219242-1

Analy Batch No.: 623992

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2025 15:52 Calibration End Date: 03/31/2025 18:38 Calibration ID: 71644

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2-Dichloropropane	FB	Ave	679 122864	3526 308924	12539 620370	31620 1633980	60147	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Methyl methacrylate	TBAd1 0	Lin	++++ 38693	++++ 101557	++++ 206061	9159 560851	16217	++++ 2.00	++++ 5.00	++++ 10.0	0.500 25.0	1.00
1,4-Dioxane	TBAd1 0	Ave	++++ 7381	++++ 16855	++++ 21492	++++ 63092	2194	++++ 100	++++ 250	++++ 500	++++ 1250	50.0
Dibromomethane	FB	Ave	++++ 46457	942 114777	4381 228407	11565 609917	22986	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Bromodichloromethane	FB	Ave	901 133432	3880 341735	12743 691544	34291 1820151	66360	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
2-Nitropropane	TBAd1 0	Ave	++++ 55740	2753 138803	7184 245985	14974 717809	27313	++++ 10.0	0.300 25.0	1.00 50.0	2.50 125	5.00
1-Bromo-2-chloroethane	FB	Ave	++++ 103306	2532 260837	10034 534769	25518 1371435	51555	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
cis-1,3-Dichloropropene	FB	Ave	++++ 168861	4708 429709	15935 871613	40167 2290634	81920	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
4-Methyl-2-pentanone (MIBK)	TBAd1 0	Ave	++++ 505353	++++ 1252416	41612 2286851	125111 6500745	250793	++++ 20.0	++++ 50.0	2.00 100	5.00 250	10.0
Toluene	CBZd5	Ave	2667 305902	9499 773252	31315 1550629	79203 4060259	147969	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
trans-1,3-Dichloropropene	CBZd5	Ave	++++ 123784	2542 325015	10896 662842	30411 1766910	59835	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Ethyl methacrylate	CBZd5	Ave	++++ 93906	1386 240594	7817 473893	21711 1281420	41731	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
1,1,2-Trichloroethane	CBZd5	Ave	++++ 66363	1892 164707	6284 327008	17301 870847	32744	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Tetrachloroethene	CBZd5	Ave	1427 137177	4668 355210	13434 714372	34802 1877143	66124	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
1,3-Dichloropropane	CBZd5	Ave	++++ 123353	3207 305862	10797 608829	30609 1597825	59396	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
2-Hexanone	TBAd1 0	Lin1	++++ 323909	++++ 829389	17869 1523596	67212 4366466	154685	++++ 20.0	++++ 50.0	2.00 100	5.00 250	10.0
Dibromochloromethane	CBZd5	Ave	497 86335	2449 221442	7621 440242	21635 1181335	41259	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
1,2-Dibromoethane (EDB)	CBZd5	Ave	++++ 62403	1348 159148	5723 311584	15489 831238	29943	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-219242-1

Analy Batch No.: 623992

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2025 15:52 Calibration End Date: 03/31/2025 18:38 Calibration ID: 71644

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1-Chlorohexane	CBZd5	Ave	++++ 171870	8077 448562	18845 907212	43721 2375866	79790	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Chlorobenzene	CBZd5	Ave	2882 325561	10198 822690	32803 1655938	85184 4337493	157864	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
1,1,1,2-Tetrachloroethane	CBZd5	Ave	830 112635	2823 280042	11254 562207	28384 1516707	54915	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Ethylbenzene	CBZd5	Ave	5136 596351	18516 1522973	58178 3108222	154225 8193836	291925	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
m&p-Xylene	CBZd5	Ave	3728 458577	12732 1160849	43832 2362025	117872 6248331	221657	0.0400 4.00	0.120 10.0	0.400 20.0	1.00 50.0	2.00
o-Xylene	CBZd5	Ave	1754 220158	5630 560346	21407 1134829	58043 2985695	107032	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Styrene	CBZd5	Ave	2233 344681	8813 893775	32013 1825564	86179 4814851	166528	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Bromoform	CBZd5	Ave	++++ 48203	887 122492	3964 241935	12140 668052	22818	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Isopropylbenzene	CBZd5	Ave	4590 514898	15440 1321148	50504 2710322	134290 7082025	248518	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
1,1,2,2-Tetrachloroethane	DCBd4	Ave	++++ 78902	++++ 197822	++++ 373408	20554 1038664	40032	++++ 2.00	++++ 5.00	++++ 10.0	0.500 25.0	1.00
Bromobenzene	DCBd4	Ave	1091 128408	3480 319438	12357 644886	33220 1714753	62336	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
trans-1,4-Dichloro-2-butene	TBA d1 0	Ave	++++ 191300	++++ 486711	++++ 927237	48024 2646536	90277	++++ 20.0	++++ 50.0	++++ 100	5.00 250	10.0
1,2,3-Trichloropropane	DCBd4	Ave	++++ 19822	390 49170	1794 90244	5101 255060	9786	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
N-Propylbenzene	DCBd4	Ave	5605 680732	19671 1758073	64338 3623808	167663 9592666	316726	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
2-Chlorotoluene	DCBd4	Ave	949 136193	4181 347917	13293 699144	34351 1881131	66573	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
1,3,5-Trimethylbenzene	DCBd4	Ave	3491 473939	14034 1224047	45181 2532050	124116 6774756	229697	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
4-Chlorotoluene	DCBd4	Ave	++++ 134434	3755 354816	13334 716408	33499 1908151	67700	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
tert-Butylbenzene	DCBd4	Ave	722 109393	3025 283217	10587 578253	27099 1538331	52042	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Pentachloroethane	DCBd4	Ave	639 77575	2083 202988	6976 429014	18622 1151466	39464	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
1,2,4-Trimethylbenzene	DCBd4	Ave	3976	14152	46308	122882	231770	0.0200	0.0600	0.200	0.500	1.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1 Analy Batch No.: 623992
Environment Testing, LLC

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2025 15:52 Calibration End Date: 03/31/2025 18:38 Calibration ID: 71644

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
			487969	1235453	2570379	6908702		2.00	5.00	10.0	25.0	
sec-Butylbenzene	DCBd4	Ave	4887 585161	16704 1549419	54697 3208232	146710 8520663	274663	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
1,3-Dichlorobenzene	DCBd4	Ave	2022 247555	7183 645894	23541 1313952	63109 3570672	119536	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
p-Isopropyltoluene	DCBd4	Ave	3845 503484	12903 1340867	46996 2789673	125533 7509078	238594	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
1,4-Dichlorobenzene	DCBd4	Ave	2743 248676	8258 637565	24433 1302458	67441 3514732	125003	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
1,2,3-Trimethylbenzene	DCBd4	Ave	2324 214497	6120 544501	21394 1113366	55278 2990137	101660	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Benzyl chloride	DCBd4	Ave	++++ 31430	++++ 81539	2626 155958	6851 442180	14772	++++ 2.00	++++ 5.00	0.200 10.0	0.500 25.0	1.00
n-Butylbenzene	DCBd4	Ave	1810 228370	5992 626827	17458 1328334	53310 3639340	104384	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
1,2-Dichlorobenzene	DCBd4	Ave	1505 219740	6144 550420	21085 1119367	58090 3049079	107438	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
1,2-Dibromo-3-Chloropropane	DCBd4	Lin2	++++ 9614	++++ 24721	447 44187	1969 134066	4678	++++ 2.00	++++ 5.00	0.200 10.0	0.500 25.0	1.00
1,3,5-Trichlorobenzene	DCBd4	Ave	1355 182874	4766 482372	16288 1011421	43496 2769597	87602	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
1,2,4-Trichlorobenzene	DCBd4	Ave	740 141195	3291 380176	12635 792689	34338 2174379	66023	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Hexachlorobutadiene	DCBd4	Ave	++++ 61624	1841 169599	5339 362428	15325 1030024	27410	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Naphthalene	DCBd4	Ave	++++ 224942	5688 580390	18225 1124483	50738 3134737	106113	++++ 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
1,2,3-Trichlorobenzene	DCBd4	Ave	1018 122159	2990 314285	9871 646826	28805 1756332	56924	0.0200 2.00	0.0600 5.00	0.200 10.0	0.500 25.0	1.00
Dibromofluoromethane (Surr)	FB	Ave	424105 440700	427379 450365	435083 442094	443393 459135	443941	10.0 10.0	10.0 10.0	10.0 10.0	10.0 10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	76012 79229	76413 80687	76292 78187	77906 80434	77051	10.0 10.0	10.0 10.0	10.0 10.0	10.0 10.0	10.0
Toluene-d8 (Surr)	CBZd5	Ave	1886966 1950607	1890264 1991811	1930506 1991289	1948431 2049064	1949110	10.0 10.0	10.0 10.0	10.0 10.0	10.0 10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd5	Ave	695978 713534	695917 726673	704022 718905	722114 752933	707488	10.0 10.0	10.0 10.0	10.0 10.0	10.0 10.0	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1 Analy Batch No.: 623992
 Environment Testing, LLC

SDG No.: _____

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2025 15:52 Calibration End Date: 03/31/2025 18:38 Calibration ID: 71644

Curve Type Legend:

Ave = Average ISTD Lin = Linear ISTD Lin1 = Linear 1/conc ISTD Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1 Analy Batch No.: 623992
Environment Testing, LLC

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2025 15:52 Calibration End Date: 03/31/2025 18:38 Calibration ID: 71644

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-623992/13	HM31X12.D
Level 2	IC 410-623992/14	HM31X13.D
Level 3	IC 410-623992/15	HM31X14.D
Level 4	IC 410-623992/16	HM31X15.D
Level 5	IC 410-623992/17	HM31X16.D
Level 6	IC 410-623992/18	HM31X17.D
Level 7	IC 410-623992/19	HM31X18.D
Level 8	ICIS 410-623992/20	HM31X19.D
Level 9	IC 410-623992/21	HM31X20.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
	LVL 7 #	LVL 8 #	LVL 9 #				LVL 7	LVL 8	LVL 9			
Dichlorodifluoromethane	-44.2	1.9	14.4	10.1	9.1	0.8	50	30	30	30	30	30
	4.5	0.3	3.0				30	30	30			
Chloromethane	34.3	20.6	8.1	-8.6	-4.4	-12.6	50	30	30	30	30	30
	-9.7	-14.4	-13.3				30	30	30			
1,3-Butadiene	+++++	7.5	4.2	5.1	0.2	-5.1		50	30	30	30	30
	-3.6	-4.0	-4.2				30	30	30			
Vinyl chloride	-9.3	8.1	6.2	2.8	0.1	-0.4	50	30	30	30	30	30
	-2.4	-4.4	-0.7				30	30	30			
Bromomethane	+++++	12.8	0.1	4.3	1.1	-2.7		50	30	30	30	30
	-5.9	-5.8	-3.8				30	30	30			
Chloroethane	-32.3	5.9	6.5	4.1	5.5	5.2	50	30	30	30	30	30
	2.0	1.6	1.7				30	30	30			
Dichlorofluoromethane	20.3	10.7	-0.7	-0.5	-4.4	-5.6	50	30	30	30	30	30
	-7.1	-6.8	-5.9				30	30	30			
Trichlorofluoromethane	+++++	-0.4	3.9	2.5	0.8	-2.7		50	30	30	30	30
	-0.9	-3.1	-0.2				30	30	30			
Ethyl ether	+++++	-26.0	-4.2	3.5	8.3	6.6		50	30	30	30	30
	4.1	4.0	3.7				30	30	30			
Freon 123a	-32.8	13.4	7.9	5.9	1.6	2.2	50	30	30	30	30	30
	-0.1	-0.9	2.7				30	30	30			
Acrolein	+++++	-22.5	-3.5	5.8	2.6	-0.9		50	30	30	30	30
	2.0	22.7	-6.1				30	30	30			
1,1-Dichloroethene	-27.0	13.8	4.0	7.7	-1.3	2.2	50	30	30	30	30	30
	0.2	-0.5	0.9				30	30	30			
Freon 113	+++++	-13.1	1.3	7.1	-5.4	3.4		50	30	30	30	30
	1.9	1.7	3.0				30	30	30			
Acetone	+++++	32.3	-9.8	3.7	2.1	-5.9		50	30	30	30	30
	-13.2	-2.4	-6.7				30	30	30			

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1 Analy Batch No.: 623992
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2025 15:52 Calibration End Date: 03/31/2025 18:38 Calibration ID: 71644

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
Methyl iodide	-28.9 2.4	2.3 2.4	4.5 1.0	9.5	3.5	3.3	50 30	30 30	30 30	30	30	30
Ethyl bromide	++++ -0.5	-4.5 2.4	2.6 -0.4	-0.3	0.5	0.1	30 30	50 30	30 30	30	30	30
Carbon disulfide	21.1 -5.1	9.8 -5.6	-1.8 -4.5	-0.2	-8.0	-5.7	50 30	30 30	30 30	30	30	30
Methyl acetate	++++ -14.0	++++ 11.8	++++ -1.2	25.9	14.1	-22.1	30 30	30 30	30 30	50	30	30
Allyl chloride	7.7 -7.5	16.2 -6.1	3.9 -6.5	2.8	-4.7	-5.8	50 30	30 30	30 30	30	30	30
Methylene Chloride	-35.1 2.7	7.8 1.1	7.4 -0.9	12.0	2.0	3.0	50 30	30 30	30 30	30	30	30
t-Butyl alcohol	++++ 0.0	++++ 4.5	-16.4 -8.1	21.1	9.2	-10.3	30 30	30 30	50 30	30	30	30
Acrylonitrile	++++ -15.3	++++ 4.5	++++ -0.1	35.3	22.3	-2.3	30 30	30 30	30 30	50	30	30
Methyl tert-butyl ether	++++ -4.2	6.8 -6.2	-1.6 -4.0	6.4	2.6	0.1	30 30	50 30	30 30	30	30	30
trans-1,2-Dichloroethene	-29.2 1.8	7.8 3.4	-0.2 3.7	7.6	1.6	3.5	50 30	30 30	30 30	30	30	30
n-Hexane	++++ 3.7	-4.5 3.3	-3.6 4.6	3.3	-10.1	3.3	30 30	50 30	30 30	30	30	30
1,1-Dichloroethane	-23.2 1.5	12.1 1.4	1.8 0.6	5.8	-1.2	1.2	50 30	30 30	30 30	30	30	30
di-Isopropyl ether	-23.6 1.3	4.7 1.5	1.4 2.4	7.2	2.6	2.5	50 30	30 30	30 30	30	30	30
2-Chloro-1,3-butadiene	++++ 1.0	2.0 1.6	-1.6 3.5	1.8	-7.2	-1.2	30 30	50 30	30 30	30	30	30
Ethyl t-butyl ether	-13.1 -2.4	6.9 -3.1	3.7 -2.6	9.3	0.7	0.5	50 30	30 30	30 30	30	30	30
2-Butanone (MEK)	++++ -4.1	++++ 28.2	++++ 18.2	-25.7	-10.5	-13.1	30 30	30 30	30 30	50	30	30
cis-1,2-Dichloroethene	++++ -3.6	11.7 -1.8	-6.0 -2.5	4.6	-0.9	-1.5	30 30	50 30	30 30	30	30	30
2,2-Dichloropropane	-29.5 3.3	3.3 2.1	5.6 3.6	8.9	-0.8	3.5	50 30	30 30	30 30	30	30	30
Propionitrile	++++ 2.4	++++ 15.8	++++ 21.4	-16.4	-11.8	-11.4	30 30	30 30	30 30	50	30	30
Methacrylonitrile	++++ -13.8	++++ 12.9	++++ -1.4	27.1	-4.3	-16.8	30 30	30 30	30 30	50	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1 Analy Batch No.: 623992
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2025 15:52 Calibration End Date: 03/31/2025 18:38 Calibration ID: 71644

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
Bromochloromethane	++++ 6.0	-43.4 3.3	0.1 3.1	13.9	9.7	7.4	30	50 30	30 30	30	30	30
Tetrahydrofuran	++++ -11.9	++++ 10.8	26.2 -0.3	1.0	-6.0	-19.7	30	50 30	30 30	30	30	30
Chloroform	-28.4 1.3	10.0 1.0	0.7 2.2	9.3	1.2	2.7	50 30	30 30	30 30	30	30	30
1,1,1-Trichloroethane	-33.1 1.4	18.3 1.5	3.7 2.8	6.7	-2.6	1.2	50 30	30 30	30 30	30	30	30
Cyclohexane	-41.4 4.4	8.4 3.9	7.3 5.4	9.9	-3.4	5.4	50 30	30 30	30 30	30	30	30
1,1-Dichloropropene	-19.4 2.1	10.8 1.4	0.8 4.7	3.6	-3.9	0.0	50 30	30 30	30 30	30	30	30
Carbon tetrachloride	++++ 1.9	-6.9 2.6	-1.3 6.1	0.6	-4.7	1.5	30	50 30	30 30	30	30	30
Isobutyl alcohol	++++ 7.4	++++ 10.8	-17.8 8.3	-12.3	3.6	0.0	30	50 30	30 30	30	30	30
Benzene	-8.2 -1.2	2.2 0.1	1.1 0.7	6.4	-0.6	-0.6	50 30	30 30	30 30	30	30	30
1,2-Dichloroethane	++++ 0.0	-17.8 -0.1	4.8 2.1	6.4	1.9	2.6	30	50 30	30 30	30	30	30
t-Amyl methyl ether	-15.7 -2.0	14.2 -3.5	-0.5 -0.4	4.9	1.5	1.5	50 30	30 30	30 30	30	30	30
n-Heptane	-2.7 7.0	3.1 6.7	-0.5 10.3	-7.3	-19.7	3.0	50 30	30 30	30 30	30	30	30
n-Butanol	++++ 8.8	++++ -2.5	++++ 0.1	-10.3	-8.5	-3.8	30	50 30	30 30	50	30	30
Trichloroethene	++++ 0.2	1.9 1.6	-0.9 2.1	0.1	-4.0	-1.1	30	50 30	30 30	30	30	30
Methylcyclohexane	-45.9 8.7	4.8 7.6	6.8 10.7	5.2	-5.8	7.8	50 30	30 30	30 30	30	30	30
1,2-Dichloropropane	-40.3 3.4	3.3 4.3	7.2 6.3	8.2	3.4	4.2	50 30	30 30	30 30	30	30	30
Methyl methacrylate	++++ -18.3	++++ 16.3	++++ -1.8	30.2	-9.2	-16.8	30	50 30	30 30	50	30	30
1,4-Dioxane	++++ 11.4	++++ 5.0	++++ -3.0	++++	-28.1	14.8	30	50 30	30 30		50	30
Dibromomethane	++++ 2.5	-26.4 2.4	-0.1 5.8	5.5	5.4	5.1	30	50 30	30 30	30	30	30
Bromodichloromethane	-28.4 3.5	2.8 5.1	-1.5 7.0	6.1	3.2	2.3	50 30	30 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.: 410-219242-1 Analy Batch No.: 623992
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2025 15:52 Calibration End Date: 03/31/2025 18:38 Calibration ID: 71644

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
2-Nitropropane	++++ -15.3	25.4 10.9	23.4 1.9	-8.8	-17.4	-20.0	30	50 30	30 30	30	30	30
1-Bromo-2-chloroethane	++++ 1.3	-14.0 4.2	-0.5 3.4	1.2	2.8	1.6	30	50 30	30 30	30	30	30
cis-1,3-Dichloropropene	++++ 1.4	-2.8 3.3	-4.0 5.0	-3.1	-0.7	1.0	30	50 30	30 30	30	30	30
4-Methyl-2-pentanone (MIBK)	++++ -5.8	++++ 27.1	-11.9 13.7	-6.0	-6.5	-10.6	30	50 30	30 30	30	30	30
Toluene	-10.6 -0.7	6.4 0.2	2.5 1.3	3.2	-2.6	0.3	50 30	30 30	30 30	30	30	30
trans-1,3-Dichloropropene	++++ 6.9	-27.1 9.7	-8.7 12.9	1.5	0.9	3.9	30	50 30	30 30	30	30	30
Ethyl methacrylate	++++ 11.8	-43.8 10.8	-7.4 15.7	2.3	-0.6	11.4	30	50 30	30 30	30	30	30
1,1,2-Trichloroethane	++++ -1.4	-1.2 -1.5	-4.1 1.3	5.1	0.5	1.4	30	50 30	30 30	30	30	30
Tetrachloroethene	3.4 -1.5	13.0 -0.3	-5.0 1.2	-2.0	-5.9	-2.8	50 30	30 30	30 30	30	30	30
1,3-Dichloropropane	++++ 1.6	-7.0 1.8	-8.6 3.1	3.2	1.2	4.6	30	50 30	30 30	30	30	30
2-Hexanone	++++ -15.6	++++ 11.7	31.4 -0.1	-1.5	-8.6	-17.3	30	50 30	30 30	30	30	30
Dibromochloromethane	-37.3 7.1	3.3 7.1	-6.1 11.0	6.1	2.3	6.6	50 30	30 30	30 30	30	30	30
1,2-Dibromoethane (EDB)	++++ 5.1	-22.3 3.6	-3.6 6.7	3.8	1.4	5.3	30	50 30	30 30	30	30	30
1-Chlorohexane	++++ -6.6	46.7 -5.0	0.0 -3.9	-7.7	-14.8	-8.7	30	50 30	30 30	30	30	30
Chlorobenzene	-9.5 -1.0	7.0 0.2	0.6 1.4	4.0	-2.6	0.0	50 30	30 30	30 30	30	30	30
1,1,1,2-Tetrachloroethane	-20.9 2.3	-10.0 3.3	4.7 7.6	5.2	2.8	5.0	50 30	30 30	30 30	30	30	30
Ethylbenzene	-11.9 0.0	6.1 2.7	-2.6 4.6	2.8	-1.7	0.0	50 30	30 30	30 30	30	30	30
m&p-Xylene	-14.7 1.7	-2.6 4.2	-2.1 6.4	4.8	-0.4	2.6	50 30	30 30	30 30	30	30	30
o-Xylene	-16.0 2.8	-9.9 4.7	0.1 6.4	8.0	0.7	3.1	50 30	30 30	30 30	30	30	30
Styrene	-30.3 6.9	-8.0 9.9	-2.4 11.9	4.6	2.1	5.3	50 30	30 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
Environment Testing, LLC

Job No.: 410-219242-1

Analy Batch No.: 623992

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2025 15:52 Calibration End Date: 03/31/2025 18:38 Calibration ID: 71644

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4	LVL 5	LVL 6
Bromoform	++++ 7.0	-32.4 6.3	-11.7 13.4	7.6	2.2	7.5	30	50 30	30 30	30	30	30
Isopropylbenzene	-8.9 0.4	2.4 3.6	-2.2 4.5	3.5	-3.2	-0.1	50 30	30 30	30 30	30	30	30
1,1,2,2-Tetrachloroethane	++++ 2.8	++++ -4.1	++++ 1.8	8.6	6.6	5.7	30	30	30	50	30	30
Bromobenzene	-9.5 0.7	-4.7 0.4	-0.4 1.9	6.5	0.7	4.4	50 30	30 30	30 30	30	30	30
trans-1,4-Dichloro-2-butene	++++ -7.7	++++ 29.9	++++ 16.7	-9.1	-15.2	-14.7	30	30	30	50	30	30
1,2,3-Trichloropropane	++++ 5.0	-27.7 -4.8	-2.1 2.7	10.8	7.0	9.1	30	50 30	30 30	30	30	30
N-Propylbenzene	-13.1 3.7	0.7 5.5	-3.0 6.6	0.5	-4.4	3.5	50 30	30 30	30 30	30	30	30
2-Chlorotoluene	-26.1 2.9	7.4 2.2	0.5 4.9	3.4	0.9	3.9	50 30	30 30	30 30	30	30	30
1,3,5-Trimethylbenzene	-22.8 2.9	2.5 5.2	-2.9 7.4	6.1	-1.1	2.7	50 30	30 30	30 30	30	30	30
4-Chlorotoluene	++++ 2.5	-5.8 2.2	-1.5 3.9	-1.6	0.2	0.1	30	50 30	30 30	30	30	30
tert-Butylbenzene	-29.0 5.9	-1.8 6.8	1.2 8.5	3.1	-0.3	5.5	50 30	30 30	30 30	30	30	30
Pentachloroethane	-13.6 4.4	-7.0 8.9	-8.3 11.6	-2.6	3.9	2.8	50 30	30 30	30 30	30	30	30
1,2,4-Trimethylbenzene	-14.1 1.5	0.9 4.3	-2.8 6.9	2.6	-2.5	3.3	50 30	30 30	30 30	30	30	30
sec-Butylbenzene	-12.9 5.0	-1.7 7.4	-5.3 8.8	1.1	-4.7	2.2	50 30	30 30	30 30	30	30	30
1,3-Dichlorobenzene	-14.8 3.5	-0.1 4.0	-3.6 7.8	2.8	-1.9	2.2	50 30	30 30	30 30	30	30	30
p-Isopropyltoluene	-19.2 7.1	-10.5 10.1	-4.0 13.1	2.0	-2.4	3.7	50 30	30 30	30 30	30	30	30
1,4-Dichlorobenzene	8.7 -3.9	8.0 -3.1	-5.9 -0.2	3.3	-3.6	-3.4	50 30	30 30	30 30	30	30	30
1,2,3-Trimethylbenzene	10.4 -1.7	-4.0 -0.7	-1.2 1.8	1.5	-6.0	-0.1	50 30	30 30	30 30	30	30	30
Benzyl chloride	++++ 6.6	++++ 0.7	-12.2 9.0	-8.9	-1.1	5.9	30	30	50 30	30	30	30
n-Butylbenzene	-15.6 11.1	-7.8 16.3	-20.9 21.6	-3.9	-5.2	4.4	50 30	30 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.: 410-219242-1 Analy Batch No.: 623992
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19094 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/31/2025 15:52 Calibration End Date: 03/31/2025 18:38 Calibration ID: 71644

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
	LVL 7 #	LVL 8 #	LVL 9 #				LVL 7	LVL 8	LVL 9			
1,2-Dichlorobenzene	-26.6 2.1	-1.1 2.5	-0.1 6.6	9.5	2.0	5.0	50 30	30 30	30 30	30	30	30
1,2-Dibromo-3-Chloropropane	++++ 0.8	++++ -11.8	-1.9 1.4	1.0	6.2	4.2	 30	 30	50 30	30	30	30
1,3,5-Trichlorobenzene	-20.9 7.1	-8.1 10.9	-7.5 15.9	-1.8	-0.4	4.7	50 30	30 30	30 30	30	30	30
1,2,4-Trichlorobenzene	-42.3 12.7	-15.3 16.1	-4.3 21.5	3.5	0.2	7.9	50 30	30 30	30 30	30	30	30
Hexachlorobutadiene	++++ 4.8	-1.2 10.7	-15.6 20.0	-3.7	-13.2	-1.8	 30	50 30	30 30	30	30	30
Naphthalene	++++ 7.3	-8.7 2.7	-13.8 9.3	-4.6	0.5	7.2	 30	50 30	30 30	30	30	30
1,2,3-Trichlorobenzene	-8.9 7.0	-11.6 8.8	-14.1 12.7	-0.3	-0.8	7.2	50 30	30 30	30 30	30	30	30
Dibromofluoromethane (Surr)	-0.6 0.5	0.1 -1.0	-0.9 -0.5	1.1	1.7	-0.4	50 30	30 30	30 30	30	30	30
1,2-Dichloroethane-d4 (Surr)	0.6 1.7	1.1 -1.1	-1.8 -1.6	0.3	-0.3	1.2	50 30	30 30	30 30	30	30	30
Toluene-d8 (Surr)	-0.7 0.3	-0.3 0.9	-0.9 0.2	-0.5	0.7	0.3	50 30	30 30	30 30	30	30	30
4-Bromofluorobenzene (Surr)	0.0 0.0	0.3 -0.5	-1.3 0.6	0.8	-0.2	0.3	50 30	30 30	30 30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X12.D
 Lims ID: IC std1 0.02
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 31-Mar-2025 15:52:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142485-013
 Misc. Info.: IC STD1 0.02
 Operator ID: ecr105096 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 12-Apr-2025 07:04:09 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1648

First Level Reviewer: N7YK

Date: 01-Apr-2025 16:01:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.861	1.843	0.018	33	728	0.0200	0.0112	
5 Chloromethane	50	2.032	2.032	0.000	34	2476	0.0200	0.0269	
7 Butadiene	39	2.117	2.129	-0.012	37	3723	0.0200	0.0446	M
6 Vinyl chloride	62	2.129	2.142	-0.013	1	1458	0.0200	0.0181	
9 Bromomethane	94	2.416	2.422	-0.006	1	539	0.0200	0.009843	M
10 Chloroethane	64	2.495	2.501	-0.006	1	612	0.0200	0.0135	
11 Dichlorofluoromethane	67	2.715	2.721	-0.006	3	3105	0.0200	0.0241	M
12 Trichlorofluoromethane	101		2.812				ND	ND	
14 Ethyl ether	59		3.001				ND	ND	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.062	3.080	-0.018	1	953	0.0200	0.0134	
16 Acrolein	56		3.160				ND	ND	
17 1,1-Dichloroethene	96	3.269	3.288	-0.019	1	665	0.0200	0.0146	
19 Acetone	43		3.312				ND	ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.324				ND	ND	
21 Iodomethane	142	3.458	3.471	-0.013	46	1243	0.0200	0.0142	
22 Ethyl bromide	108	3.489	3.495	-0.006	1	343	0.0200	0.008117	
23 Carbon disulfide	76	3.556	3.574	-0.018	94	3539	0.0200	0.0242	M
24 Methyl acetate	43		3.690				ND	ND	
26 3-Chloro-1-propene	41	3.714	3.721	-0.007	1	2049	0.0200	0.0215	
27 Methylene Chloride	84	3.873	3.885	-0.012	33	621	0.0200	0.0130	
* 28 t-Butyl alcohol-d10 (IS)	65	3.909	3.910	-0.001	97	67983	50.0	50.0	
29 2-Methyl-2-propanol	59		4.019				ND	ND	
31 Acrylonitrile	53		4.221				ND	ND	
32 Methyl tert-butyl ether	73	4.275	4.269	0.006	1	1153	0.0200	0.0109	
33 trans-1,2-Dichloroethene	96	4.287	4.281	0.006	1	722	0.0200	0.0142	
34 Hexane	57	4.702	4.696	0.006	1	512	0.0200	0.006650	
36 1,1-Dichloroethane	63	4.903	4.928	-0.025	1	1566	0.0200	0.0154	
37 Isopropyl ether	45	4.989	4.989	0.000	22	2689	0.0200	0.0153	
38 2-Chloro-1,3-butadiene	53	5.050	5.037	0.013	1	853	0.0200	0.009532	M
40 Tert-butyl ethyl ether	59	5.543	5.537	0.006	7	2713	0.0200	0.0174	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43		5.732				ND	ND	
42 cis-1,2-Dichloroethene	96	5.769	5.769	0.000	1	254	0.0200	0.004175	
43 2,2-Dichloropropane	77	5.769	5.787	-0.018	1	1196	0.0200	0.0141	
44 Propionitrile	54		5.836				ND	ND	
47 Methacrylonitrile	67		6.031				ND	ND	
48 Chlorobromomethane	128		6.098				ND	ND	
49 Tetrahydrofuran	71		6.123				ND	ND	
S 46 1,2-Dichloroethene, Total	100				0			0.0183	
50 Chloroform	83	6.263	6.257	0.006	1	1361	0.0200	0.0143	M
\$ 52 Dibromofluoromethane (Surr)	113	6.470	6.476	-0.006	94	424105	10.0	9.94	
53 1,1,1-Trichloroethane	97	6.488	6.494	-0.006	35	1152	0.0200	0.0134	
54 Cyclohexane	56	6.610	6.598	0.012	1	1167	0.0200	0.0117	
55 1,1-Dichloropropene	75	6.720	6.708	0.012	1	1325	0.0200	0.0161	M
56 Carbon tetrachloride	117	6.702	6.714	-0.012	1	469	0.0200	0.006139	M
57 Isobutyl alcohol	41		6.866				ND	ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.933	6.933	0.000	47	76012	10.0	10.1	
59 Benzene	78	6.988	6.970	0.018	41	4337	0.0200	0.0184	
60 1,2-Dichloroethane	62	7.049	7.043	0.006	1	452	0.0200	0.009129	
63 Tert-amyl methyl ether	73	7.177	7.177	0.000	1	2104	0.0200	0.0169	
* 64 Fluorobenzene (IS)	96	7.384	7.385	-0.001	99	1964341	10.0	10.0	
65 n-Heptane	43	7.409	7.409	0.000	36	1423	0.0200	0.0195	
67 n-Butanol	56		7.793				ND	ND	
68 Trichloroethene	95	7.878	7.878	0.000	1	139	0.0200	0.002305	
69 Methylcyclohexane	83	8.189	8.195	-0.006	1	1059	0.0200	0.0108	M
70 1,2-Dichloropropane	63	8.232	8.208	0.024	57	679	0.0200	0.0119	
71 2-ethoxy-2-methyl butane	87	8.232	8.232	0.000	84	1419	0.0200	0.0166	
72 Methyl methacrylate	69		8.311				ND	ND	
74 Dibromomethane	93		8.323				ND	ND	
73 1,4-Dioxane	88		8.329				ND	ND	
76 Dichlorobromomethane	83	8.567	8.561	0.006	1	901	0.0200	0.0143	
77 2-Nitropropane	41	8.854	8.835	0.019	14	101	0.1000	0.0141	
79 1-Bromo-2-chloroethane	63		8.963				ND	ND	
80 cis-1,3-Dichloropropene	75	9.165	9.134	0.031	1	487	0.0200	0.006038	
82 4-Methyl-2-pentanone (MIBK)	43	9.341	9.317	0.024	13	3672	0.2000	0.1262	M
\$ 83 Toluene-d8 (Surr)	98	9.457	9.463	-0.006	94	1886966	10.0	9.93	
84 Toluene	92	9.549	9.543	0.006	96	2667	0.0200	0.0179	
85 trans-1,3-Dichloropropene	75		9.817				ND	ND	
104 Ethyl methacrylate	69		9.890				ND	ND	
106 1,1,2-Trichloroethane	97	10.030	10.030	0.000	1	126	0.0200	0.003939	
S 105 1,3-Dichloropropene, Total	100				0			0.006038	
107 Tetrachloroethene	166	10.128	10.116	0.012	87	1427	0.0200	0.0207	M
108 1,3-Dichloropropane	76	10.207	10.195	0.012	1	449	0.0200	0.007791	M
109 2-Hexanone	43		10.250				ND	ND	
111 Chlorodibromomethane	129	10.433	10.414	0.019	1	497	0.0200	0.0125	
112 Ethylene Dibromide	107		10.530				ND	ND	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	86	1405222	10.0	10.0	
114 1-Chlorohexane	91	10.975	10.987	-0.012	33	3009	0.0200	0.0327	
115 Chlorobenzene	112	11.006	11.000	0.006	83	2882	0.0200	0.0181	
116 1,1,1,2-Tetrachloroethane	131	11.097	11.091	0.006	1	830	0.0200	0.0158	
117 Ethylbenzene	91	11.103	11.091	0.012	95	5136	0.0200	0.0176	
119 m-Xylene & p-Xylene	106	11.231	11.213	0.018	95	3728	0.0400	0.0341	M
S 118 Xylenes, Total	106				0			0.0509	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 o-Xylene	106	11.560	11.548	0.012	90	1754	0.0200	0.0168	
121 Styrene	104	11.621	11.561	0.060	88	2233	0.0200	0.0139	
122 Bromoform	173		11.719				ND	ND	
123 Isopropylbenzene	105	11.853	11.853	0.000	92	4590	0.0200	0.0182	
\$ 126 4-Bromofluorobenzene (Surr)	95	11.999	11.999	0.000	90	695978	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83		12.103				ND	ND	
128 Bromobenzene	156	12.121	12.115	0.006	91	1091	0.0200	0.0181	
129 trans-1,4-Dichloro-2-butene	53	12.152	12.128	0.024	1	113	0.2000	0.009791	
130 1,2,3-Trichloropropane	110		12.146				ND	ND	
131 N-Propylbenzene	91	12.207	12.188	0.019	98	5605	0.0200	0.0174	
132 2-Chlorotoluene	126	12.274	12.262	0.012	93	949	0.0200	0.0148	
133 1,3,5-Trimethylbenzene	105	12.329	12.323	0.006	93	3491	0.0200	0.0154	
134 4-Chlorotoluene	126	12.377	12.353	0.024	1	446	0.0200	0.006778	
135 tert-Butylbenzene	134	12.566	12.566	0.000	89	722	0.0200	0.0142	
136 Pentachloroethane	167	12.603	12.597	0.006	1	639	0.0200	0.0173	
137 1,2,4-Trimethylbenzene	105	12.627	12.609	0.018	92	3976	0.0200	0.0172	
138 sec-Butylbenzene	105	12.743	12.731	0.012	92	4887	0.0200	0.0174	
139 1,3-Dichlorobenzene	146	12.847	12.829	0.018	76	2022	0.0200	0.0170	
140 4-Isopropyltoluene	119	12.847	12.841	0.006	91	3845	0.0200	0.0162	
* 141 1,4-Dichlorobenzene-d4	152	12.889	12.890	-0.001	95	743425	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.908	12.908	0.000	48	2743	0.0200	0.0217	
143 1,2,3-Trimethylbenzene	120	12.920	12.914	0.006	90	2324	0.0200	0.0221	
144 Benzyl chloride	126		12.981				ND	ND	
145 p-Diethylbenzene	119	13.133	13.115	0.018	87	2024	0.0200	0.0148	
146 n-Butylbenzene	92	13.164	13.133	0.031	47	1810	0.0200	0.0169	M
147 1,2-Dichlorobenzene	146	13.188	13.164	0.024	5	1505	0.0200	0.0147	
149 1,2-Dibromo-3-Chloropropane	155		13.713				ND	ND	
150 1,3,5-Trichlorobenzene	180	13.865	13.841	0.024	62	1355	0.0200	0.0158	M
151 1,2,4-Trichlorobenzene	180	14.310	14.261	0.049	1	740	0.0200	0.0115	
152 Hexachlorobutadiene	225	14.346	14.347	-0.001	84	1408	0.0200	0.0458	
153 Naphthalene	128	14.487	14.438	0.049	1	845	0.0200	0.008221	
154 1,2,3-Trichlorobenzene	180	14.609	14.584	0.025	1	1018	0.0200	0.0182	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_GAS826_00264

Amount Added: 0.40

Units: uL

MSV_LL_#1_826_00163

Amount Added: 0.40

Units: uL

MSV_LL_#2_826_00174

Amount Added: 0.40

Units: uL

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 12-Apr-2025 07:04:09

Chrom Revision: 2.3 08-Apr-2025 13:07:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X12.D

Injection Date: 31-Mar-2025 15:52:30

Instrument ID: 19094

Operator ID: ecr105096

Lims ID: IC std1 0.02

Worklist Smp#: 13

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

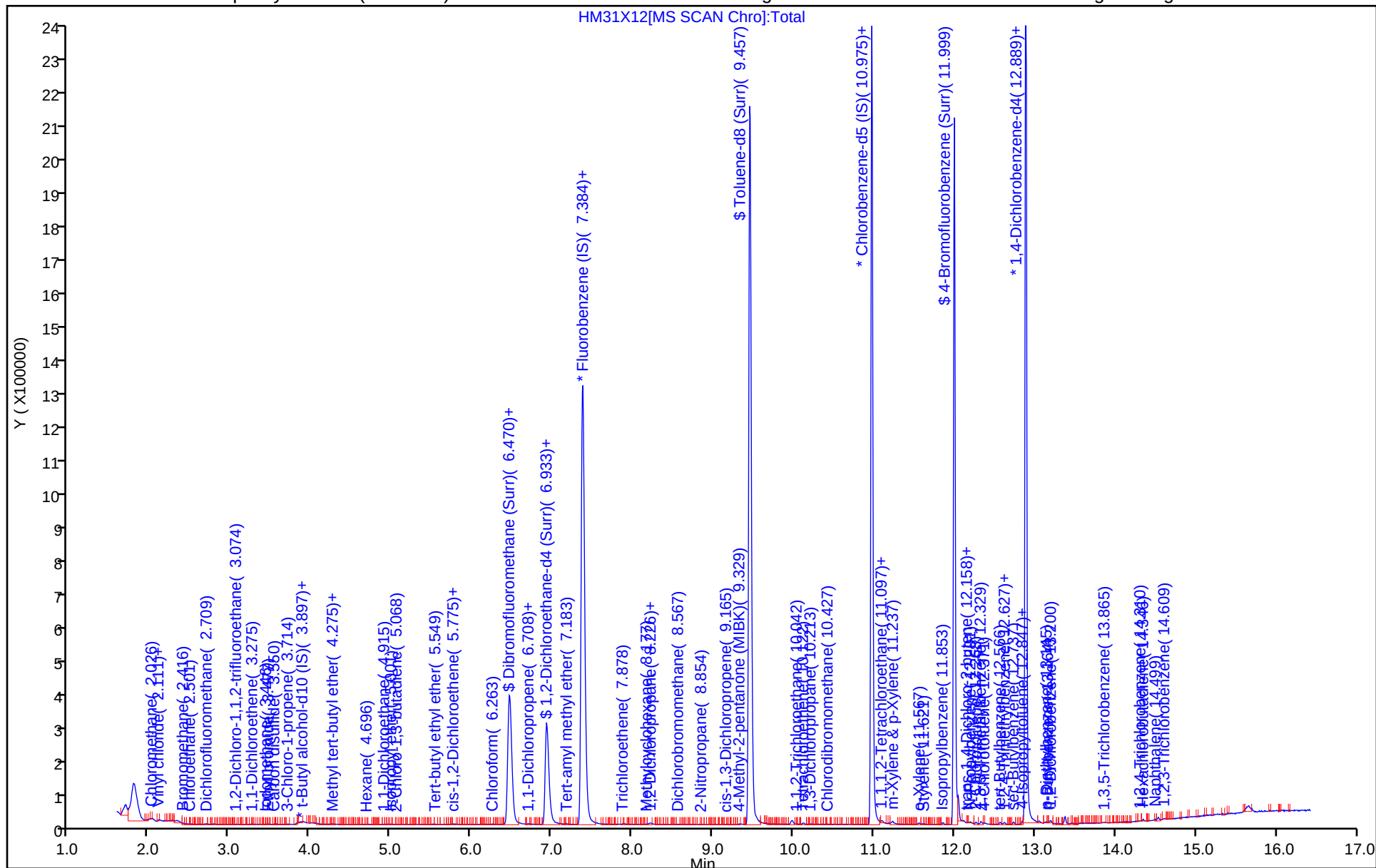
ALS Bottle#: 12

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

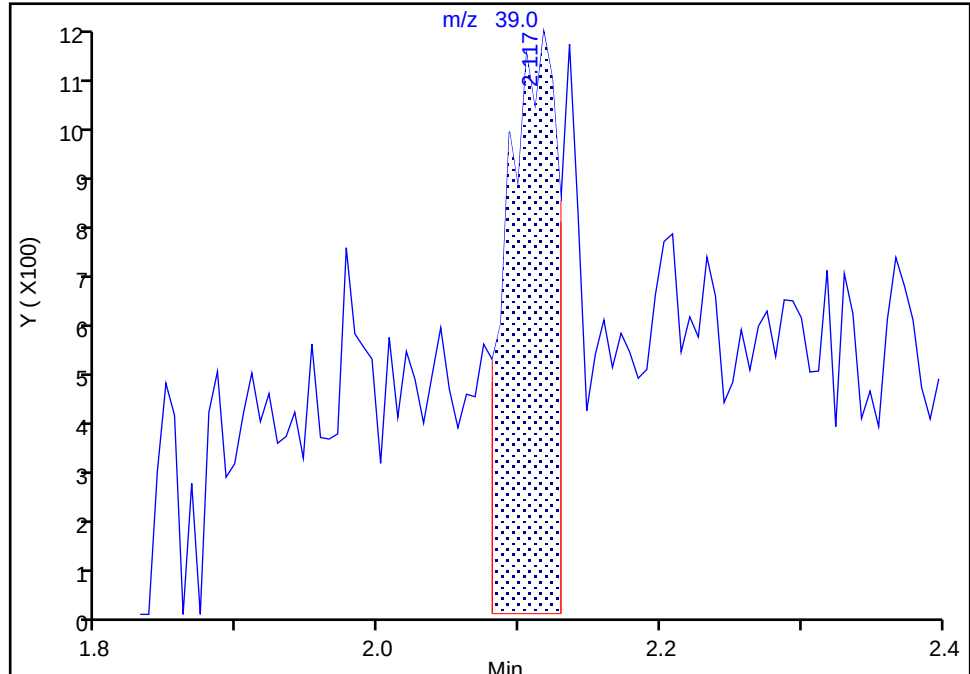
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Injection Date: 31-Mar-2025 15:52:30 Instrument ID: 19094
Lims ID: IC std1 0.02
Client ID:
Operator ID: ecr105096 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

7 Butadiene, CAS: 106-99-0

Signal: 1

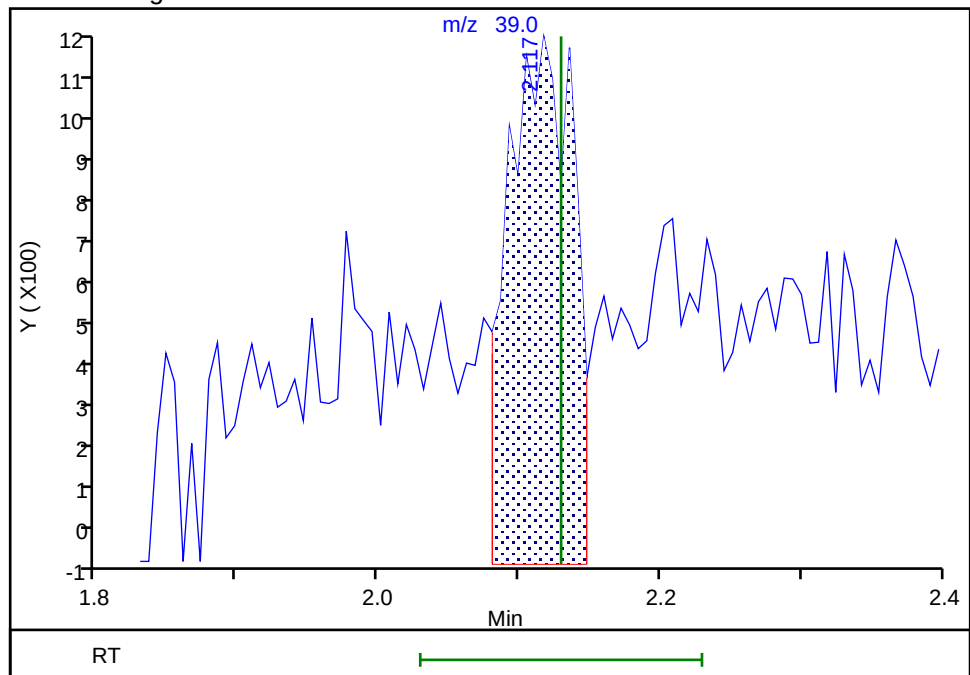
RT: 2.12
Area: 2873
Amount: 0.012919
Amount Units: ug/l

Processing Integration Results



RT: 2.12
Area: 3723
Amount: 0.044632
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 11-Apr-2025 08:10:17 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Environment Testing, LLC

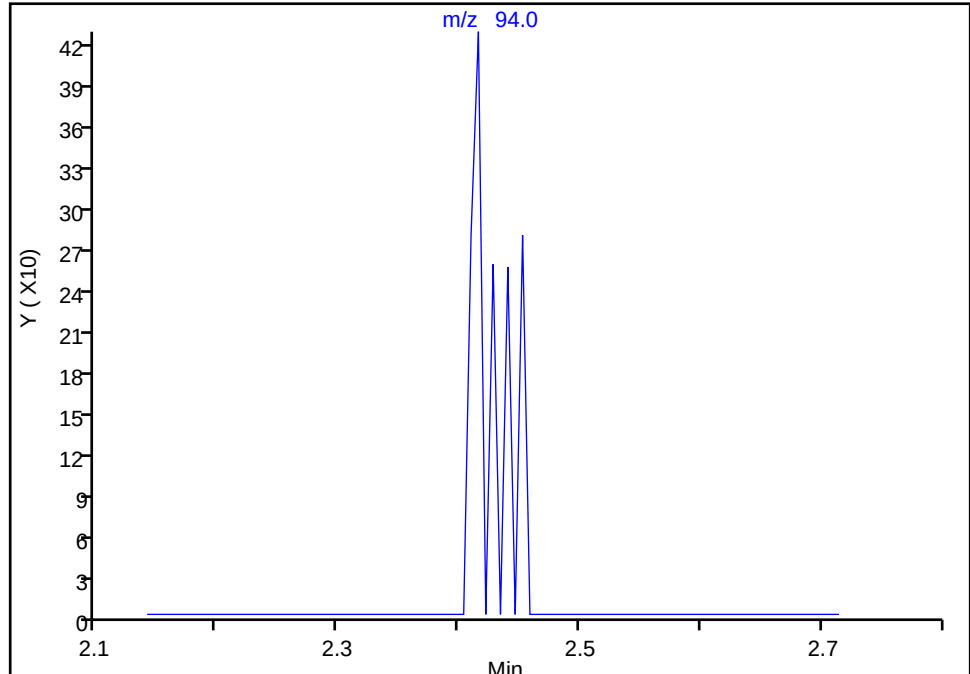
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Injection Date: 31-Mar-2025 15:52:30 Instrument ID: 19094
Lims ID: IC std1 0.02
Client ID:
Operator ID: ecr105096 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

9 Bromomethane, CAS: 74-83-9

Signal: 1

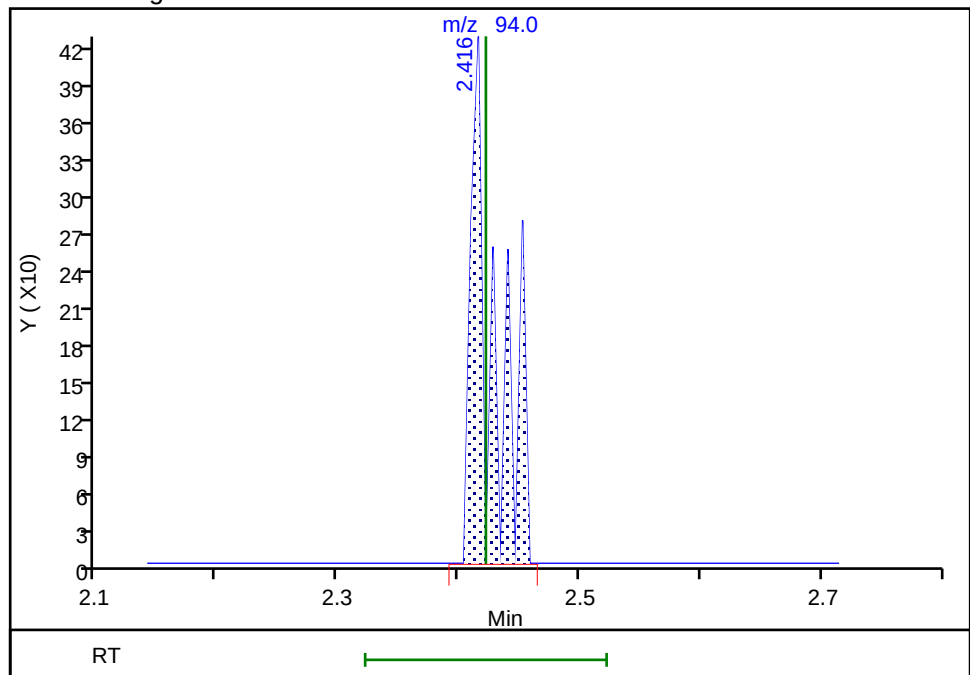
Not Detected
Expected RT: 2.42

Processing Integration Results



RT: 2.42
Area: 539
Amount: 0.009843
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 15:57:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

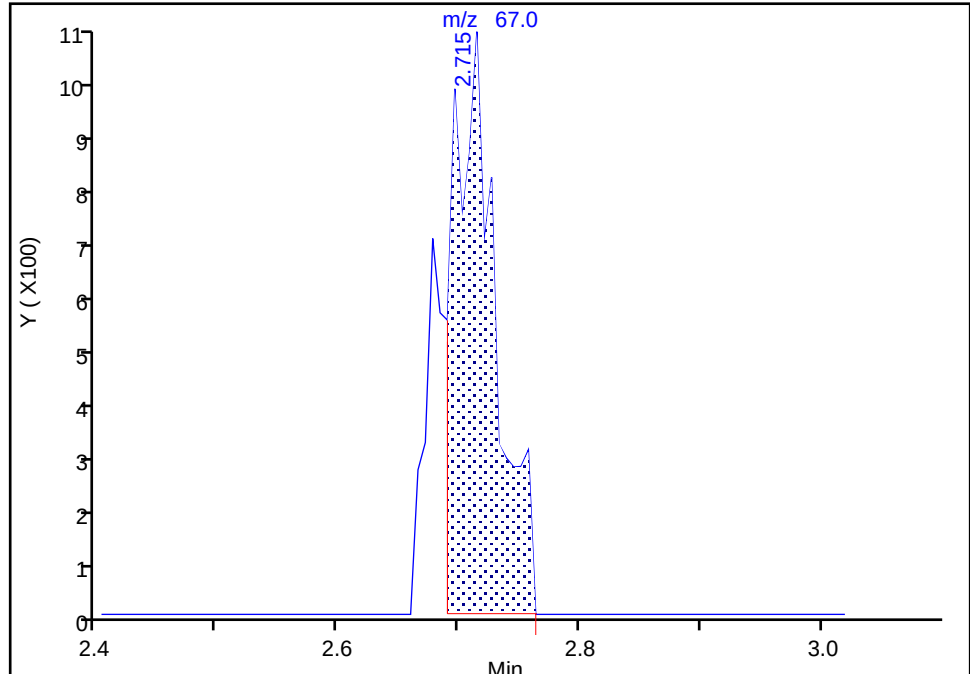
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Injection Date: 31-Mar-2025 15:52:30 Instrument ID: 19094
Lims ID: IC std1 0.02
Client ID:
Operator ID: ecr105096 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

11 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

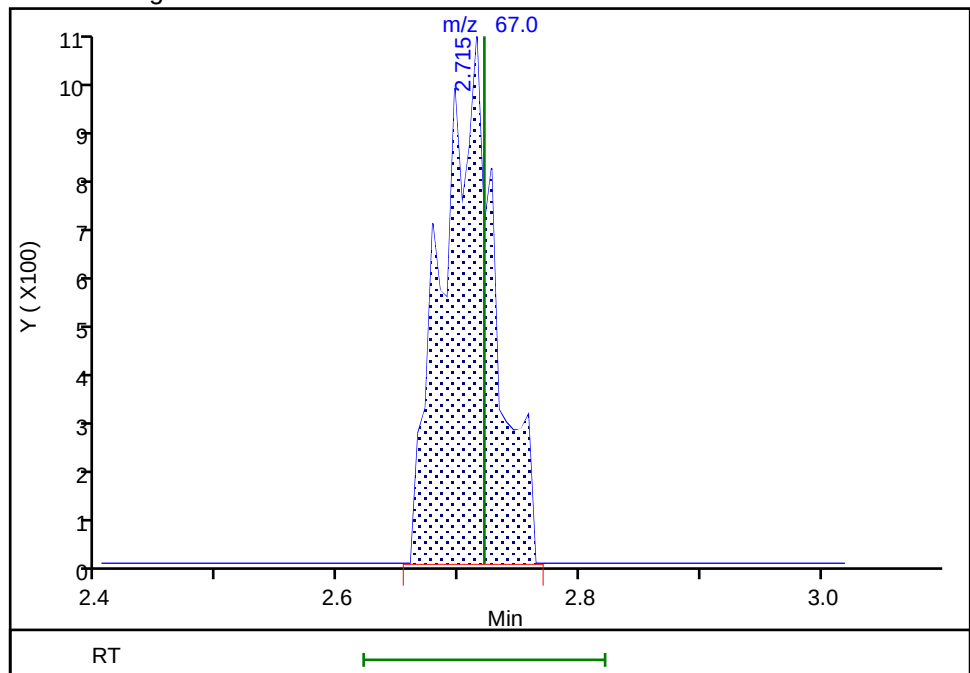
RT: 2.71
Area: 2469
Amount: 0.019678
Amount Units: ug/l

Processing Integration Results



RT: 2.71
Area: 3105
Amount: 0.024070
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 15:57:51 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

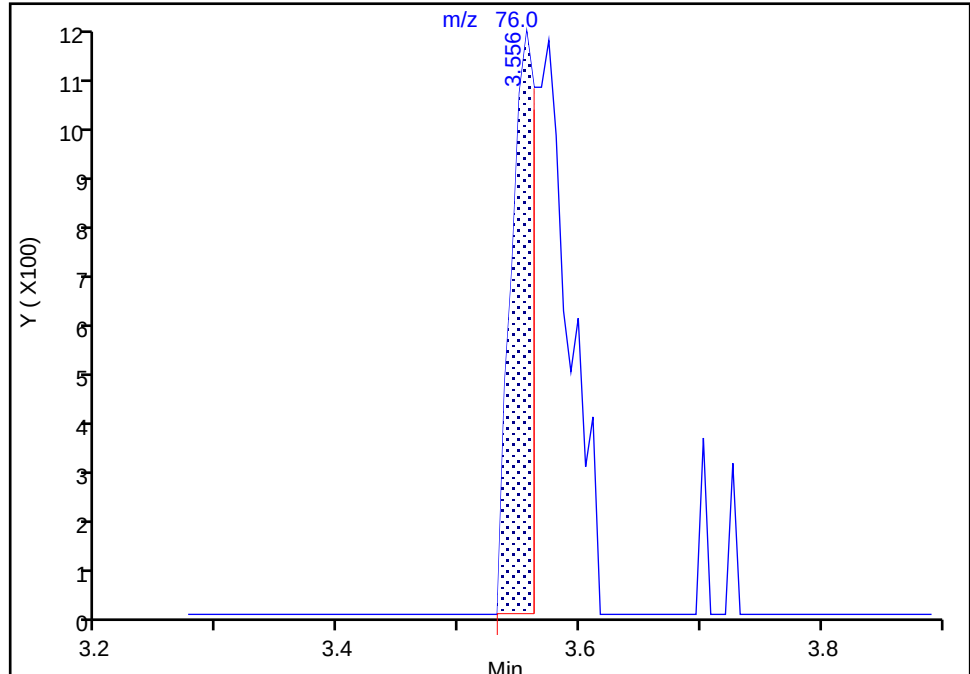
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Injection Date: 31-Mar-2025 15:52:30 Instrument ID: 19094
Lims ID: IC std1 0.02
Client ID:
Operator ID: ecr105096 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Carbon disulfide, CAS: 75-15-0

Signal: 1

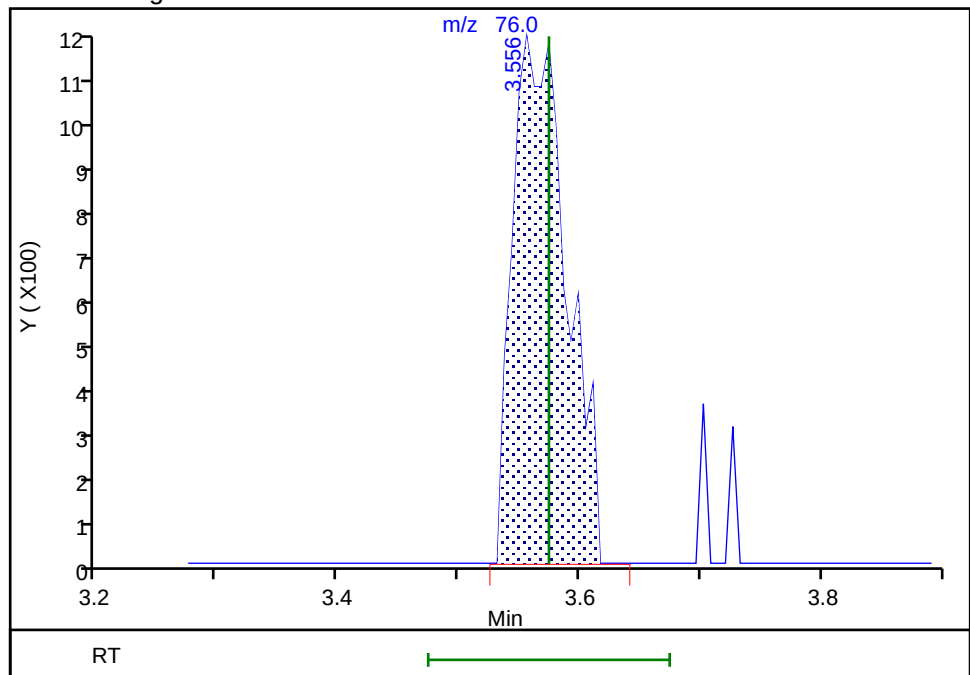
RT: 3.56
Area: 1570
Amount: 0.011619
Amount Units: ug/l

Processing Integration Results



RT: 3.56
Area: 3539
Amount: 0.024229
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 15:58:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

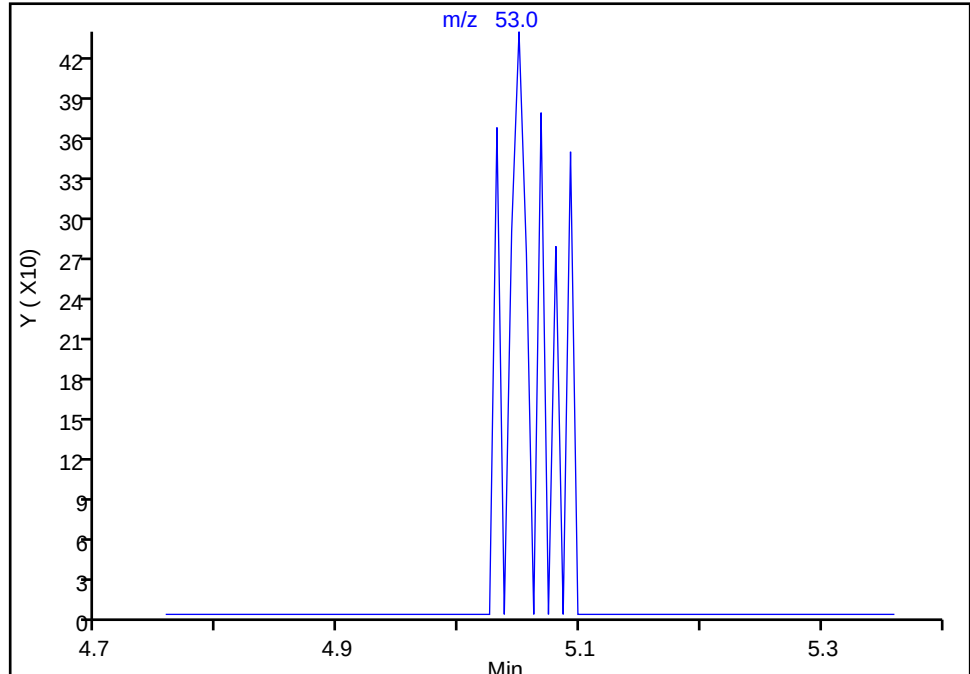
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Injection Date: 31-Mar-2025 15:52:30 Instrument ID: 19094
Lims ID: IC std1 0.02
Client ID:
Operator ID: ecr105096 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

38 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

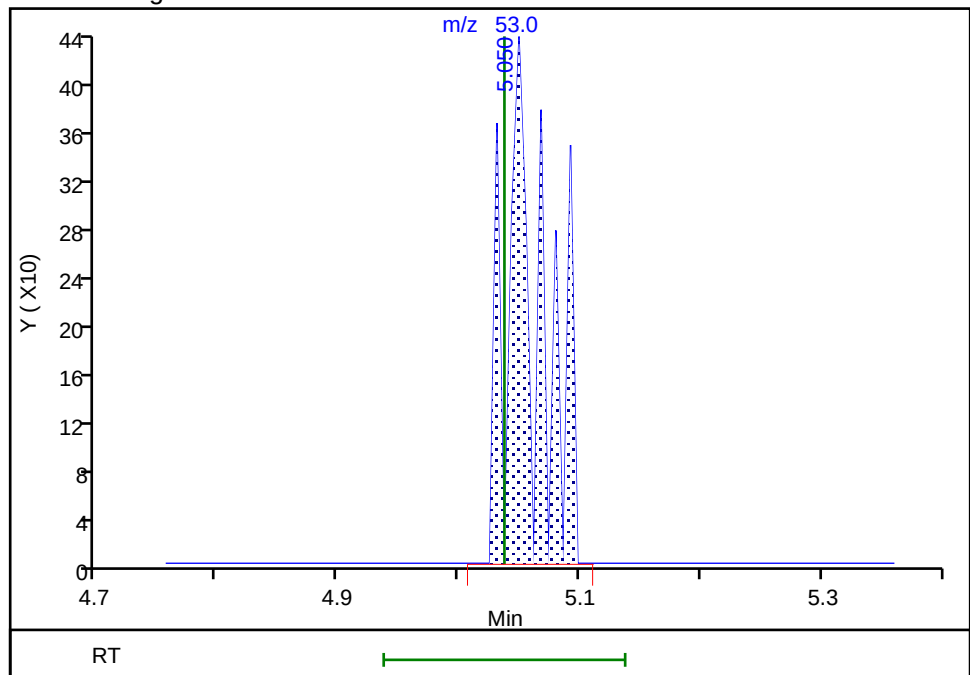
Not Detected
Expected RT: 5.04

Processing Integration Results



RT: 5.05
Area: 853
Amount: 0.009532
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 15:58:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

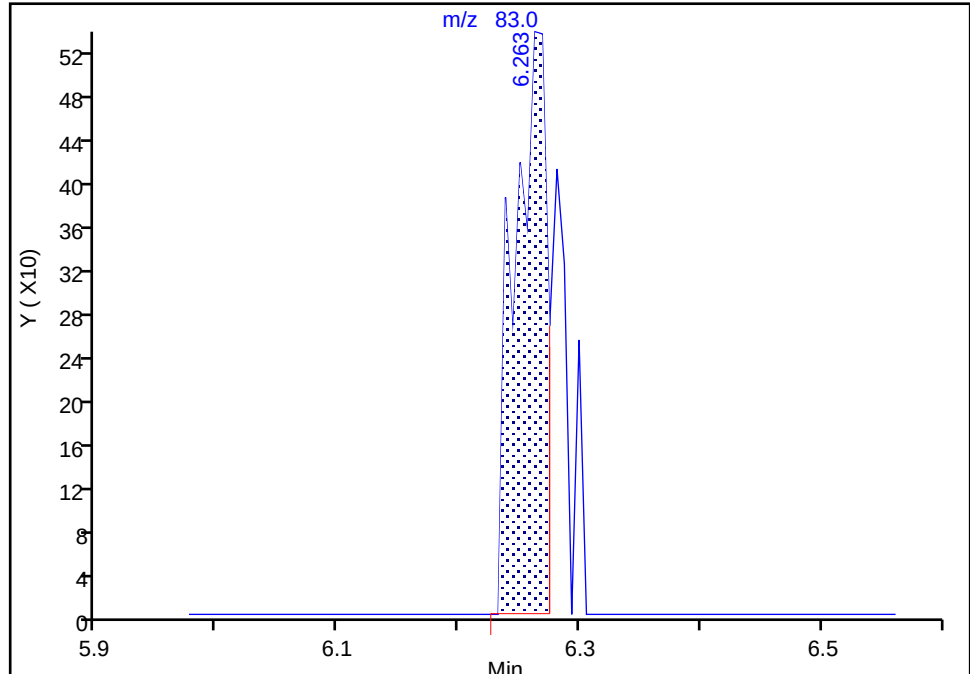
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Lims ID: IC std1 0.02
Client ID:
Operator ID: ecr105096 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

50 Chloroform, CAS: 67-66-3

Signal: 1

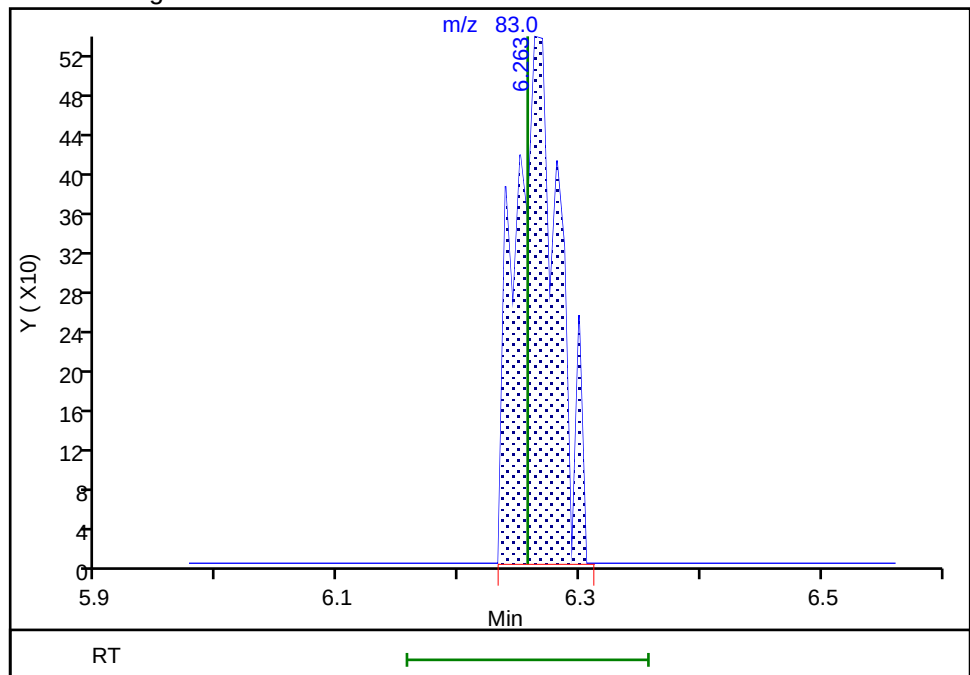
RT: 6.26
Area: 1001
Amount: 0.010760
Amount Units: ug/l

Processing Integration Results



RT: 6.26
Area: 1361
Amount: 0.014322
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 15:58:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

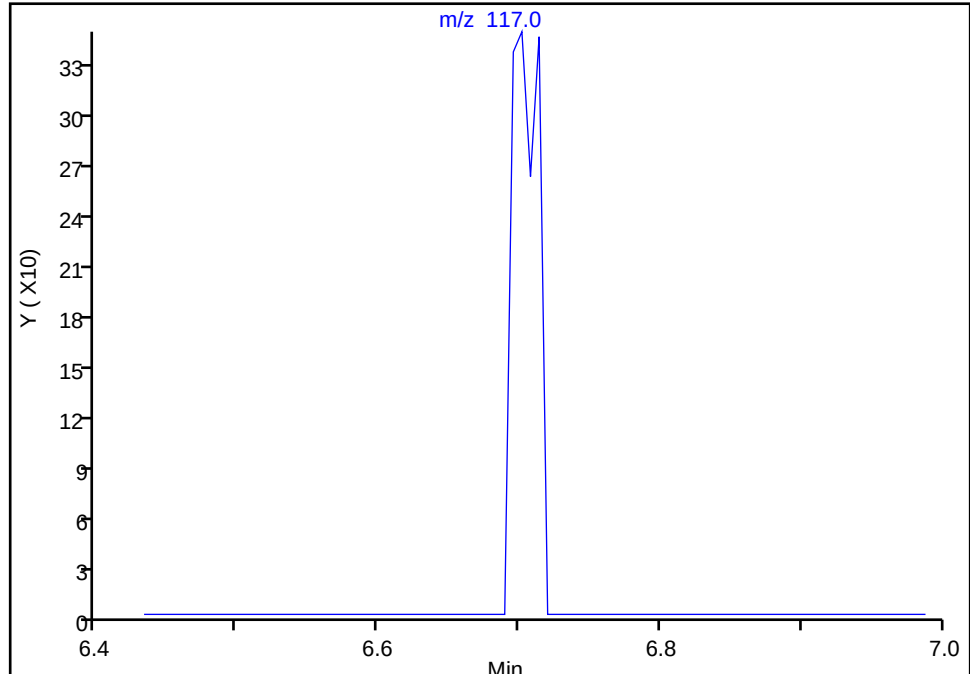
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Injection Date: 31-Mar-2025 15:52:30 Instrument ID: 19094
Lims ID: IC std1 0.02
Client ID:
Operator ID: ecr105096 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

56 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

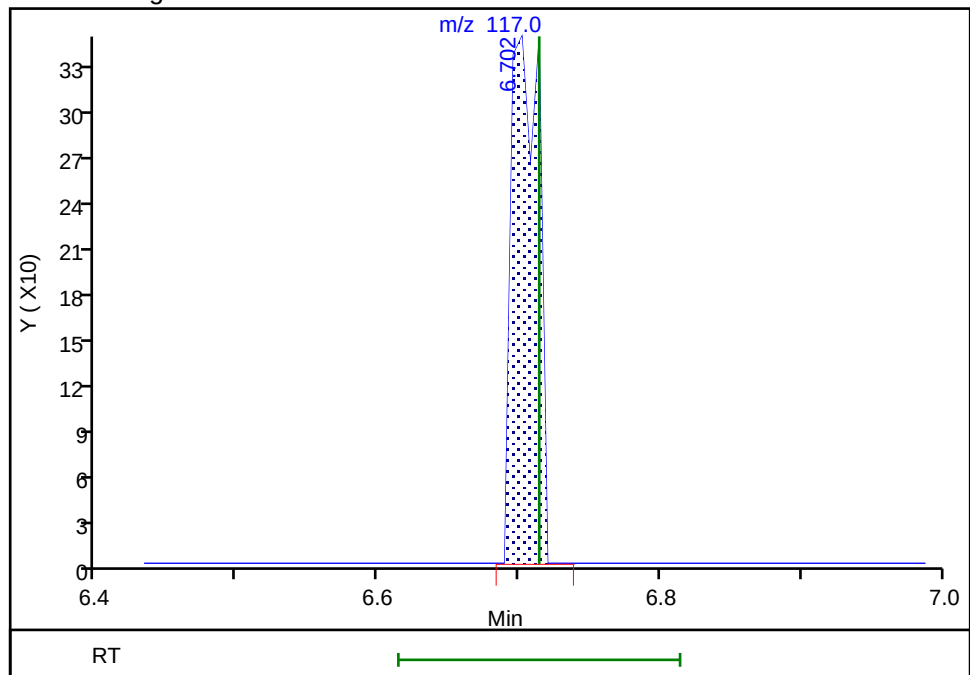
Not Detected
Expected RT: 6.71

Processing Integration Results



RT: 6.70
Area: 469
Amount: 0.006139
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 15:59:02 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

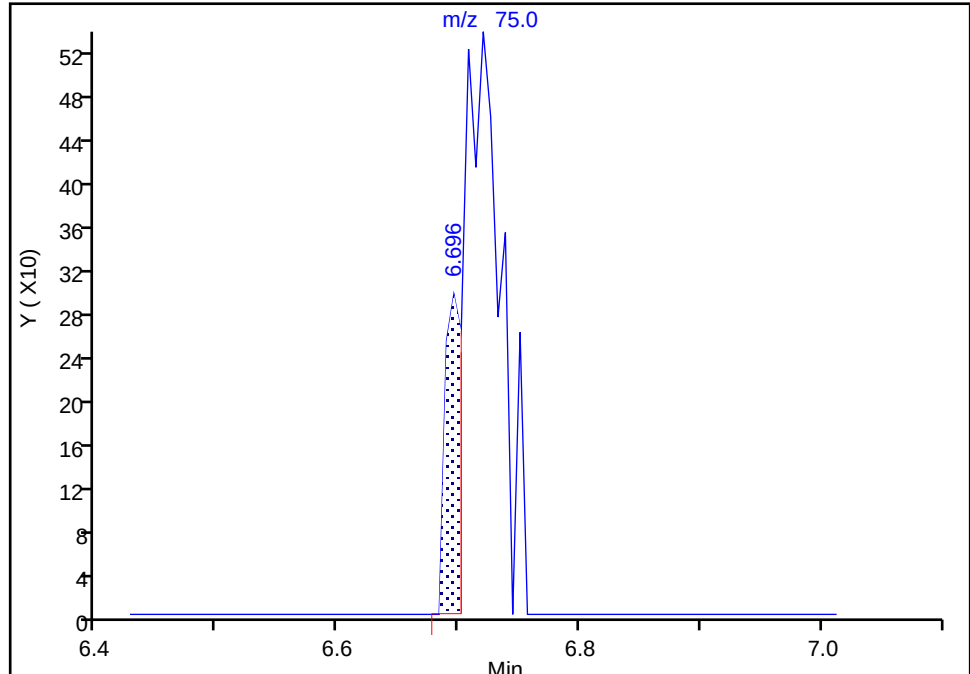
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Injection Date: 31-Mar-2025 15:52:30 Instrument ID: 19094
Lims ID: IC std1 0.02
Client ID:
Operator ID: ecr105096 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

55 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

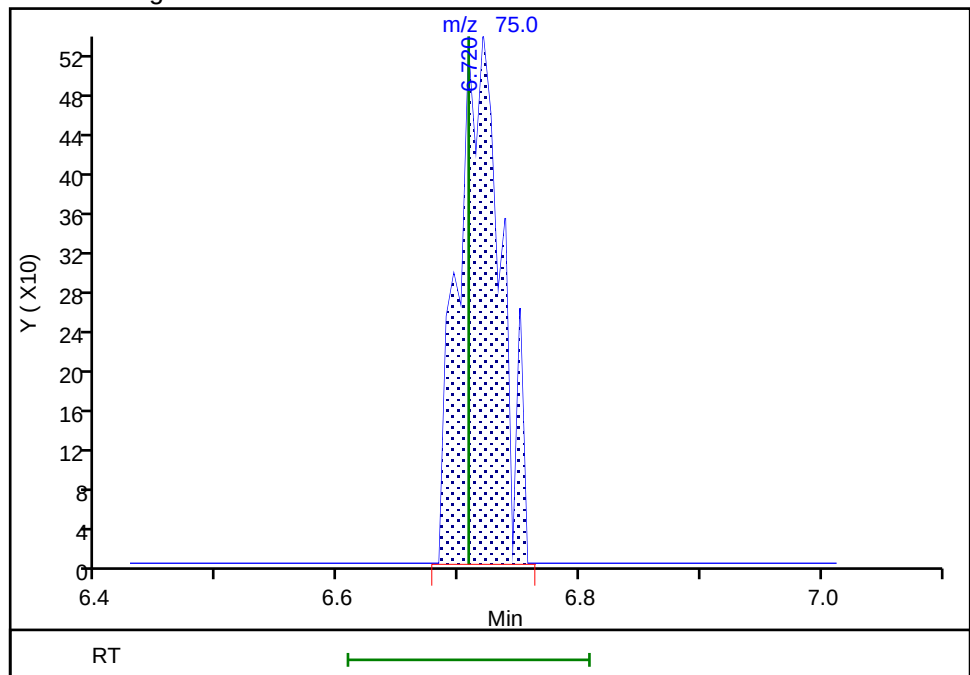
RT: 6.70
Area: 295
Amount: 0.015439
Amount Units: ug/l

Processing Integration Results



RT: 6.72
Area: 1325
Amount: 0.016117
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 15:58:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

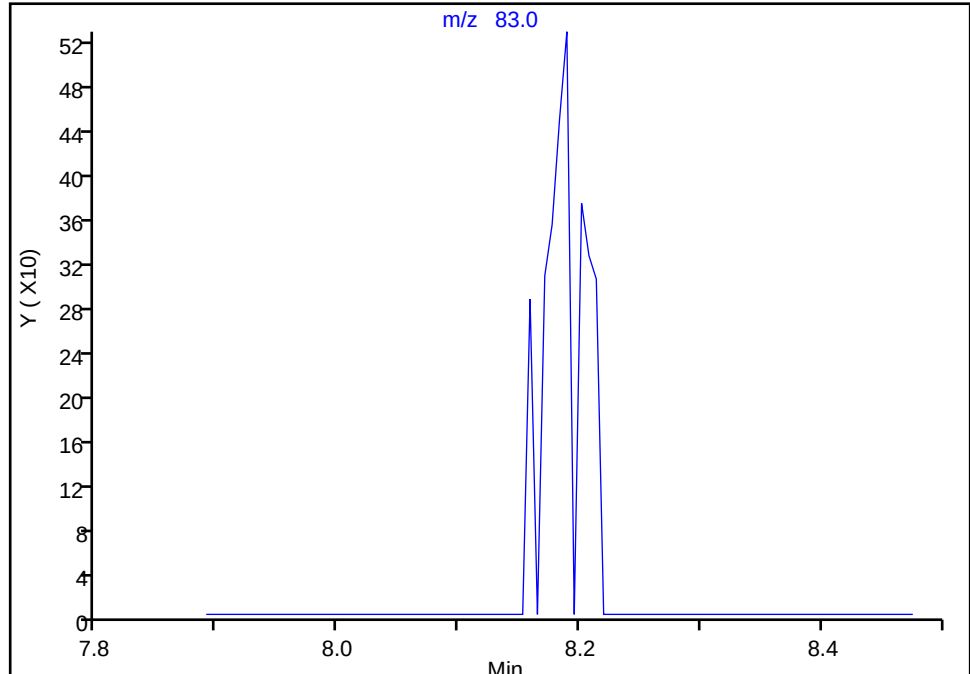
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Injection Date: 31-Mar-2025 15:52:30 Instrument ID: 19094
Lims ID: IC std1 0.02
Client ID:
Operator ID: ecr105096 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

69 Methylcyclohexane, CAS: 108-87-2

Signal: 1

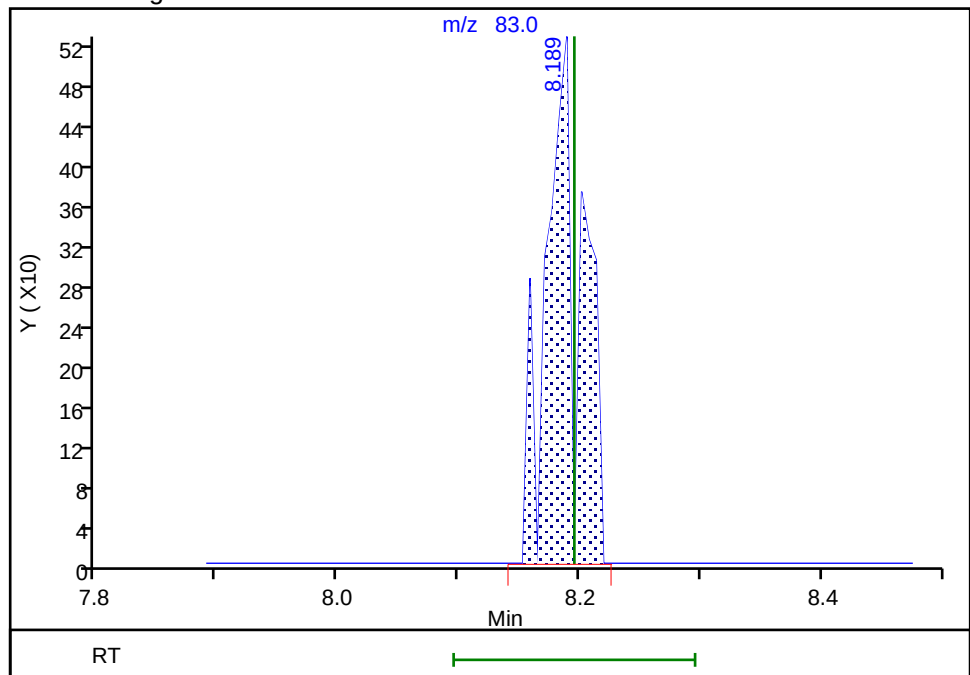
Not Detected
Expected RT: 8.20

Processing Integration Results



RT: 8.19
Area: 1059
Amount: 0.010826
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 15:59:17 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

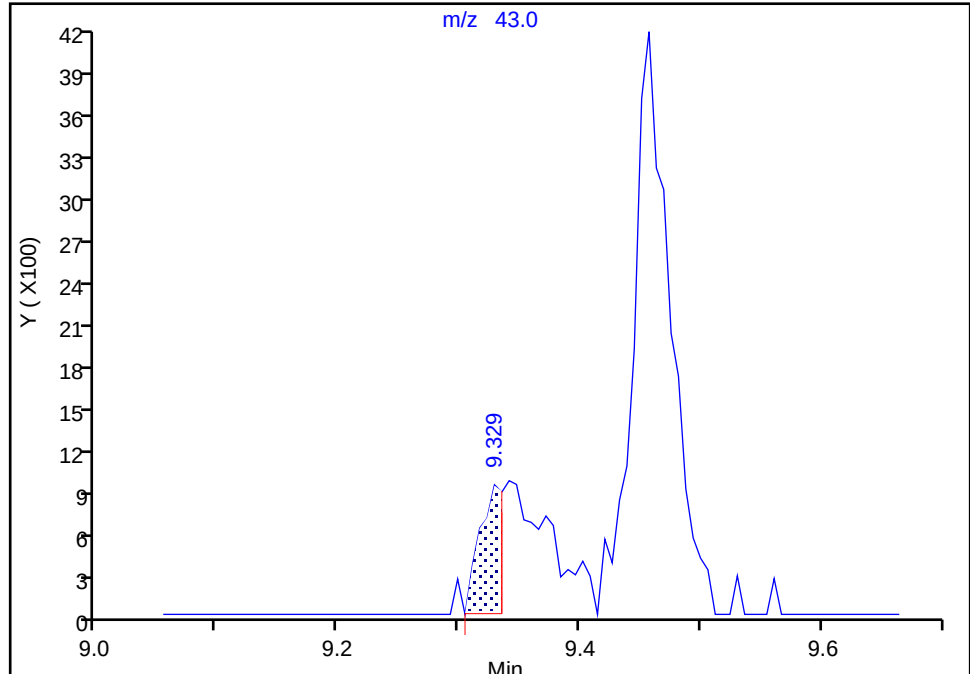
Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X12.D
Injection Date: 31-Mar-2025 15:52:30 Instrument ID: 19094
Lims ID: IC std1 0.02
Client ID:
Operator ID: ecr105096 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

82 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 1

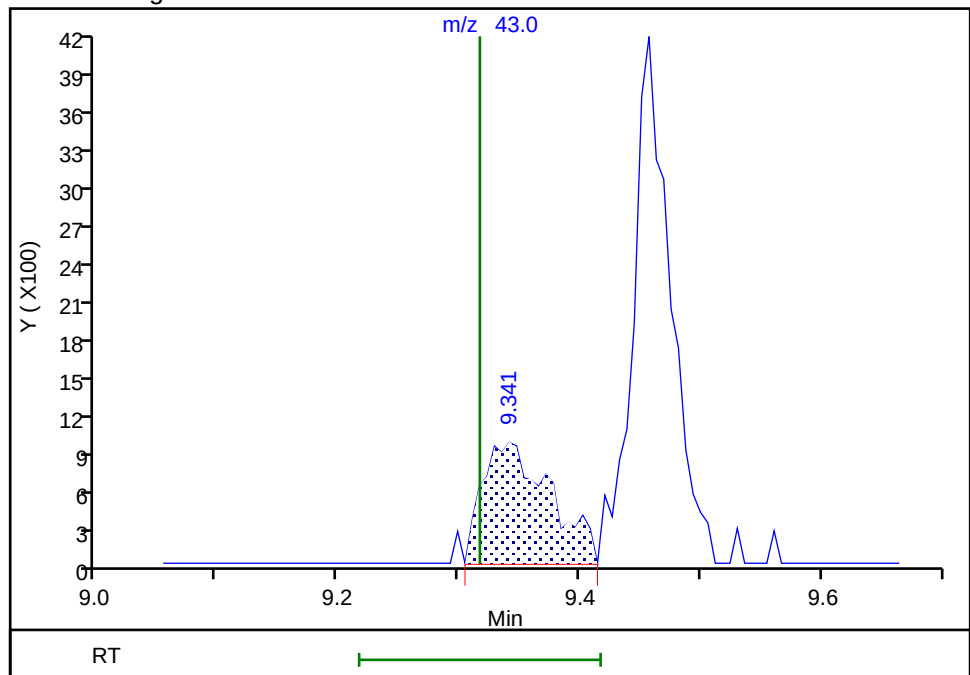
RT: 9.33
Area: 1251
Amount: 0.049278
Amount Units: ug/l

Processing Integration Results



RT: 9.34
Area: 3672
Amount: 0.126212
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 11-Apr-2025 08:29:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Environment Testing, LLC

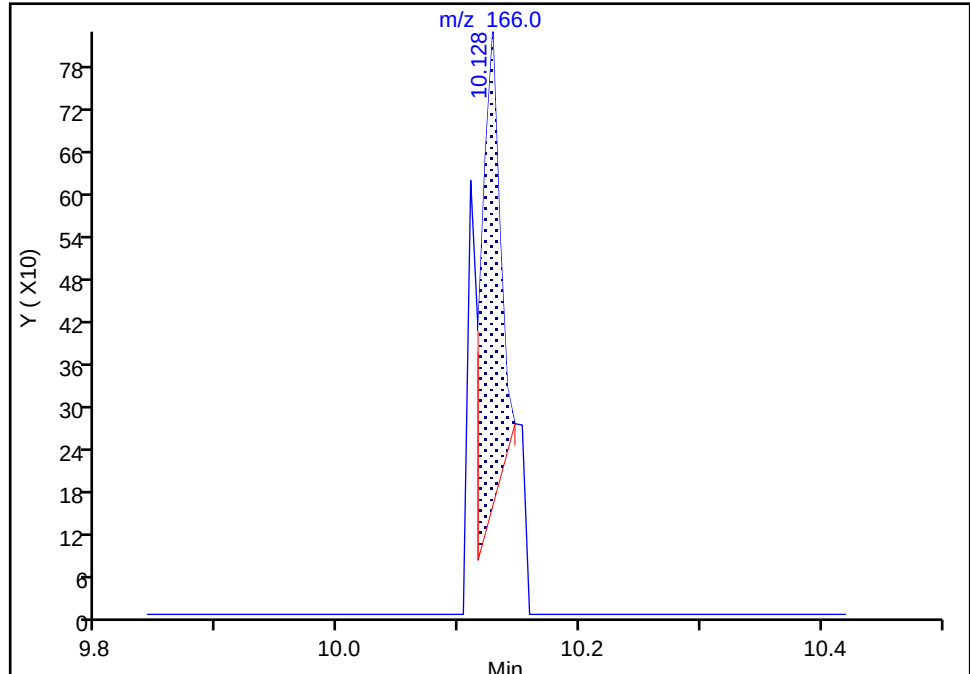
Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X12.D
Injection Date: 31-Mar-2025 15:52:30 Instrument ID: 19094
Lims ID: IC std1 0.02
Client ID:
Operator ID: ecr105096 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

107 Tetrachloroethene, CAS: 127-18-4

Signal: 1

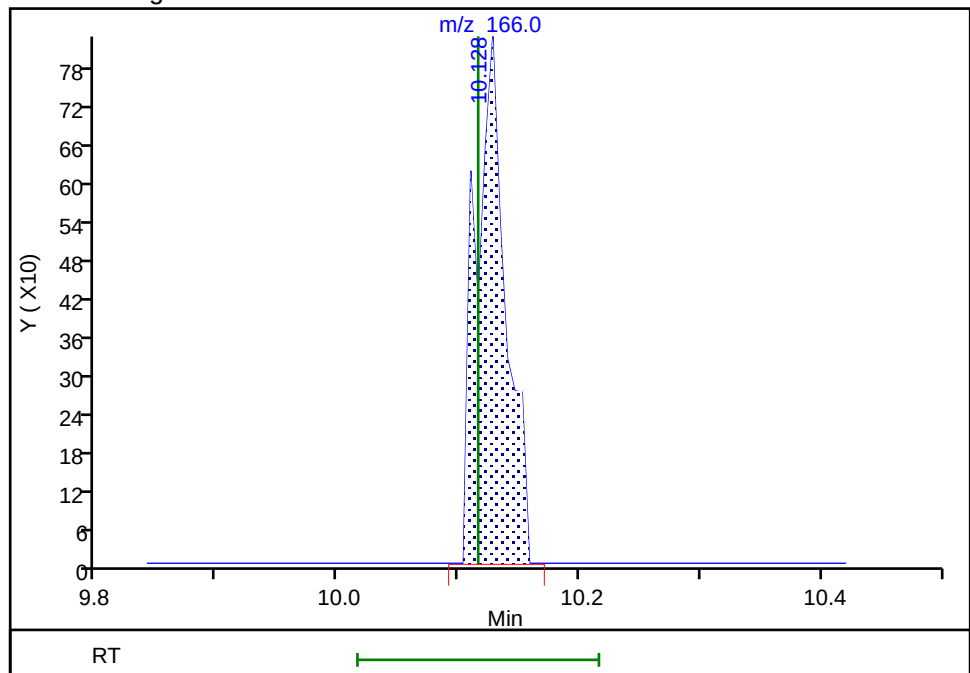
RT: 10.13
Area: 721
Amount: 0.011076
Amount Units: ug/l

Processing Integration Results



RT: 10.13
Area: 1427
Amount: 0.020675
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 11-Apr-2025 08:32:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Environment Testing, LLC

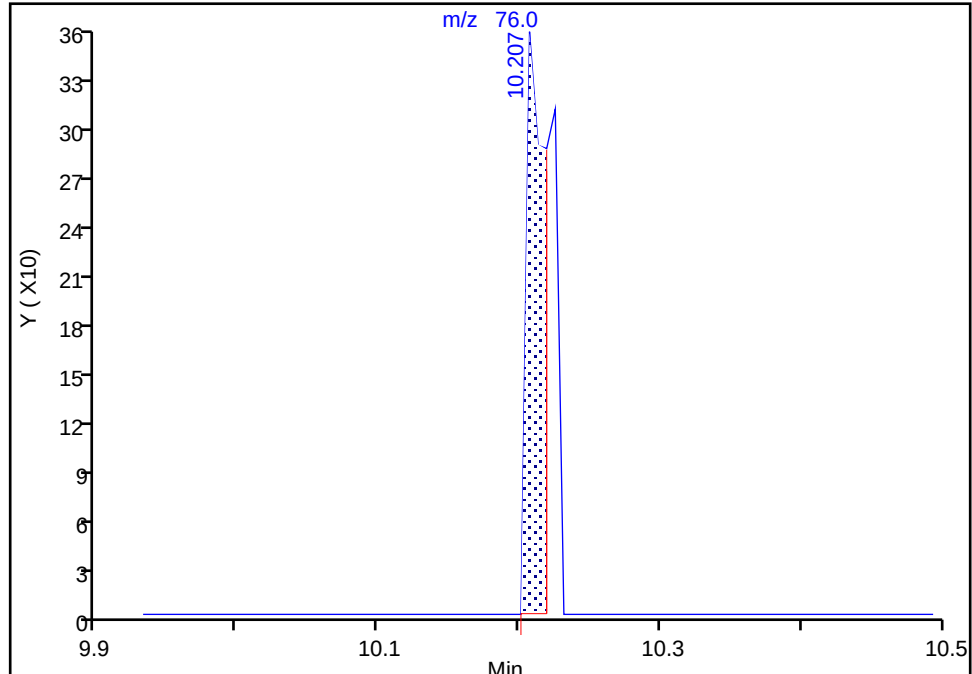
Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X12.D
Injection Date: 31-Mar-2025 15:52:30 Instrument ID: 19094
Lims ID: IC std1 0.02
Client ID:
Operator ID: ecr105096 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

108 1,3-Dichloropropane, CAS: 142-28-9

Signal: 1

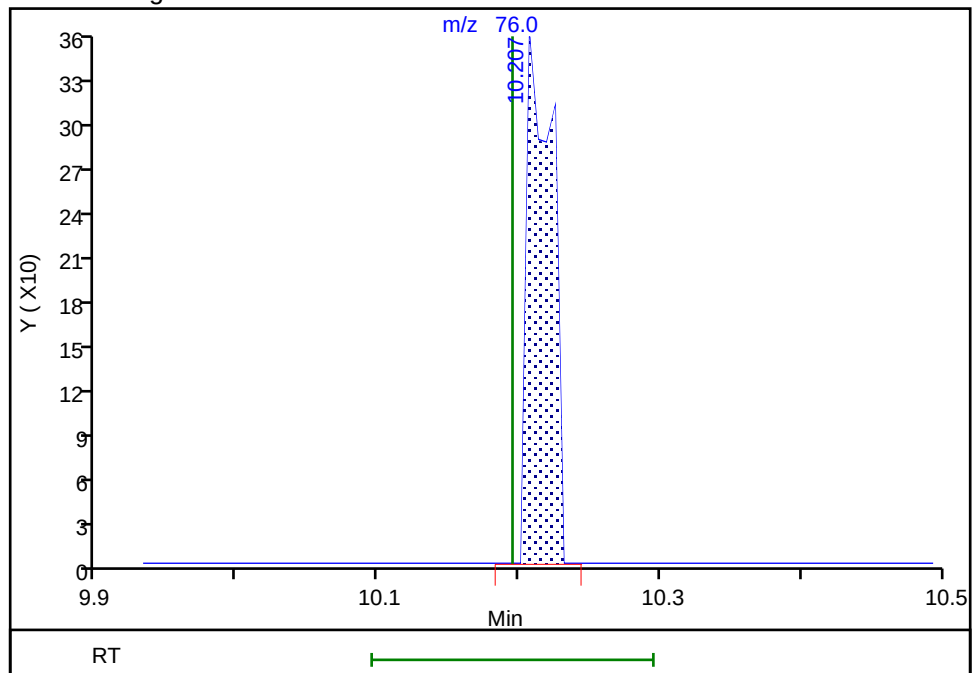
RT: 10.21
Area: 337
Amount: 0.019289
Amount Units: ug/l

Processing Integration Results



RT: 10.21
Area: 449
Amount: 0.007791
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 11-Apr-2025 08:32:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Environment Testing, LLC

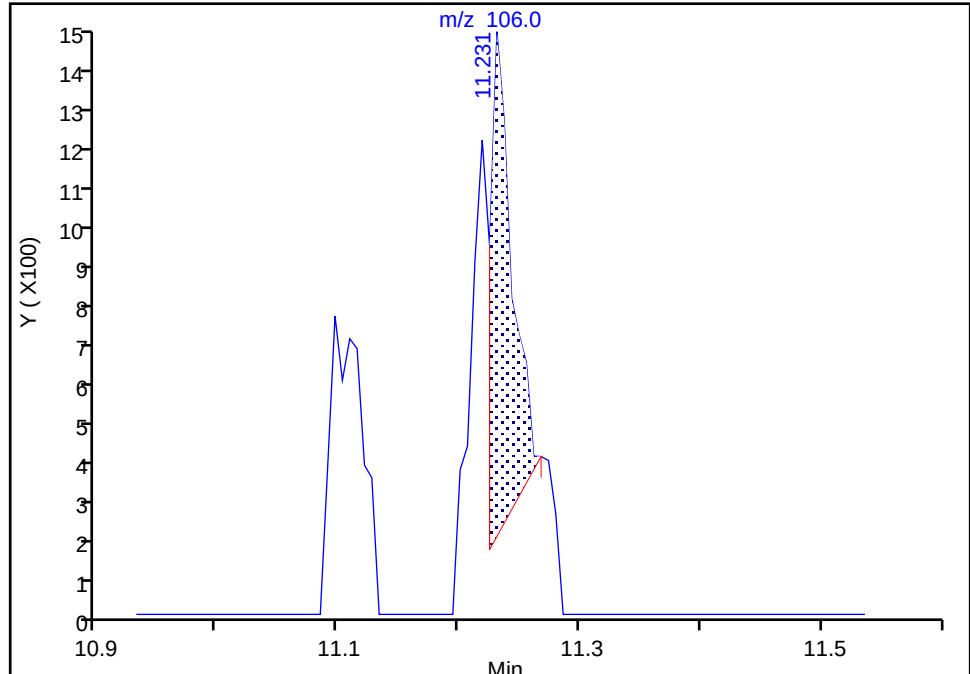
Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X12.D
Injection Date: 31-Mar-2025 15:52:30 Instrument ID: 19094
Lims ID: IC std1 0.02
Client ID:
Operator ID: ecr105096 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

119 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

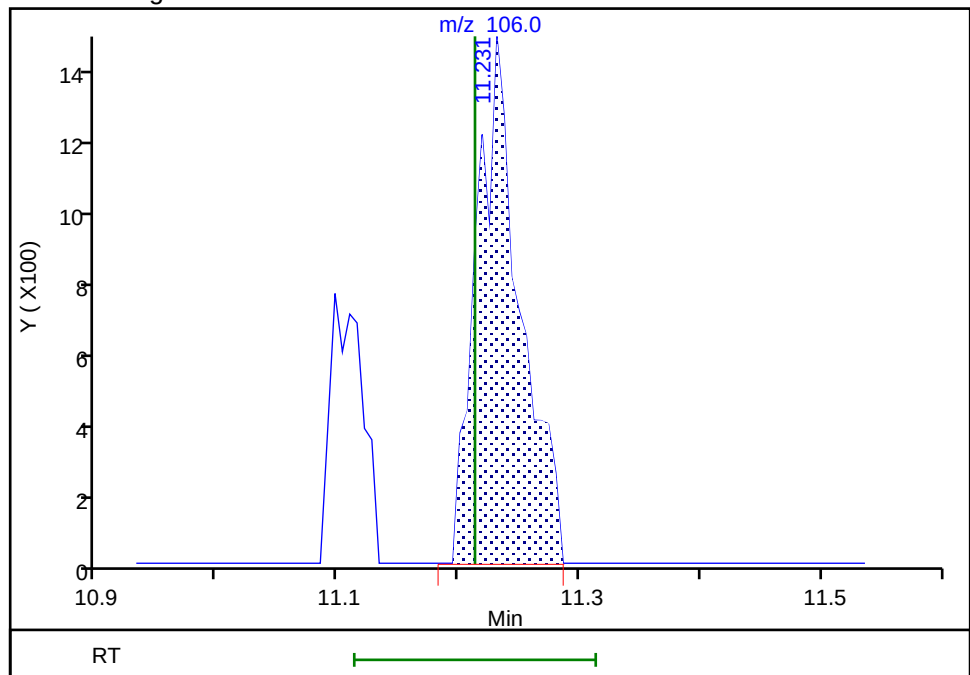
RT: 11.23
Area: 1597
Amount: 0.038352
Amount Units: ug/l

Processing Integration Results



RT: 11.23
Area: 3728
Amount: 0.034130
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 15:59:43 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

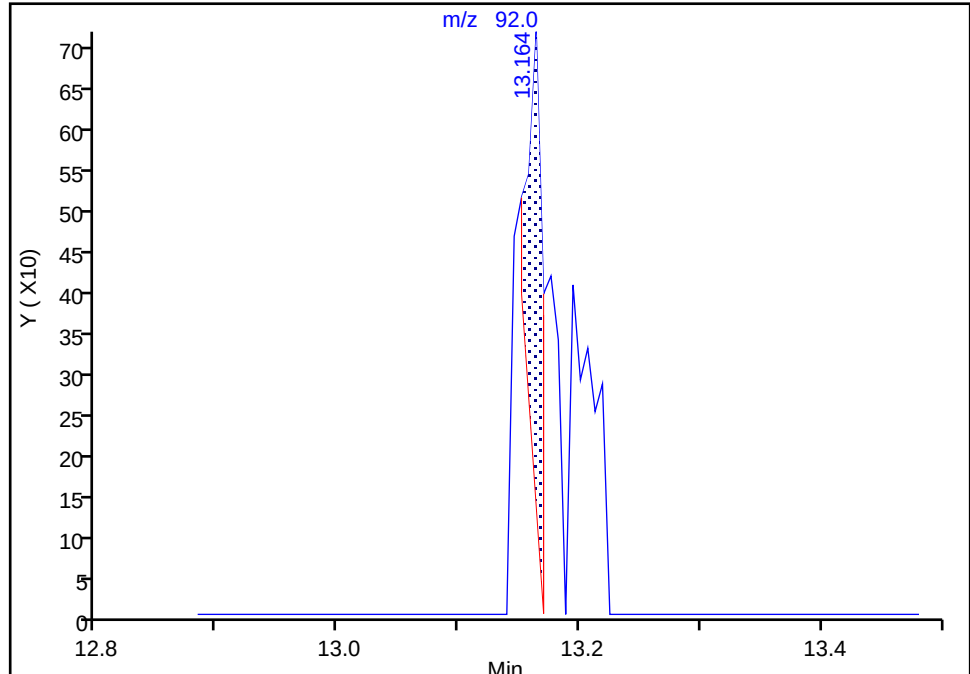
Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X12.D
Injection Date: 31-Mar-2025 15:52:30 Instrument ID: 19094
Lims ID: IC std1 0.02
Client ID:
Operator ID: ecr105096 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

146 n-Butylbenzene, CAS: 104-51-8

Signal: 1

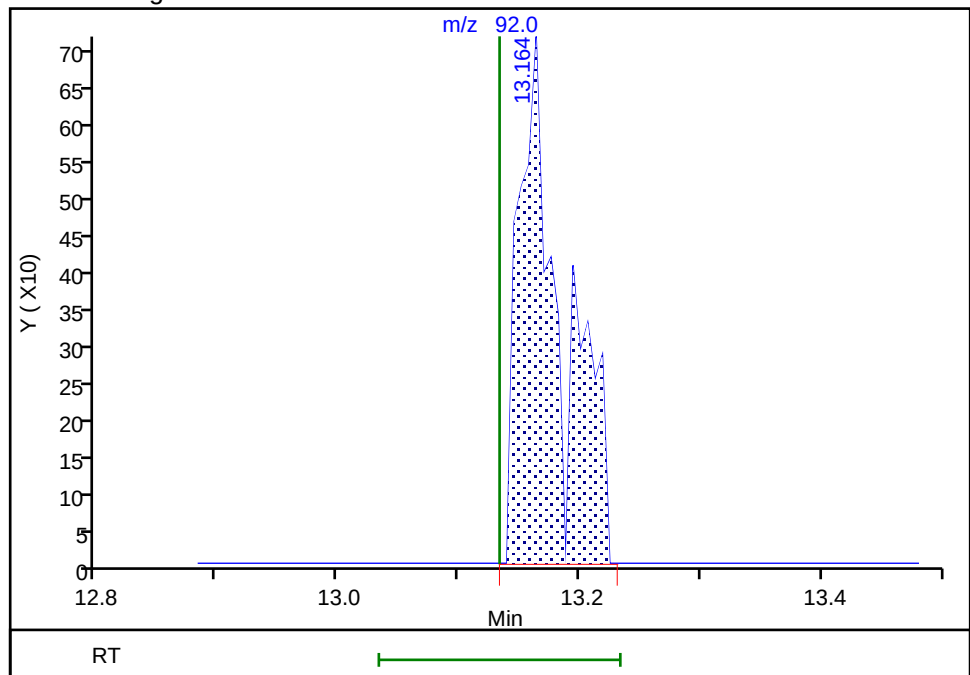
RT: 13.16
Area: 505
Amount: 0.005156
Amount Units: ug/l

Processing Integration Results



RT: 13.16
Area: 1810
Amount: 0.016879
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:00:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

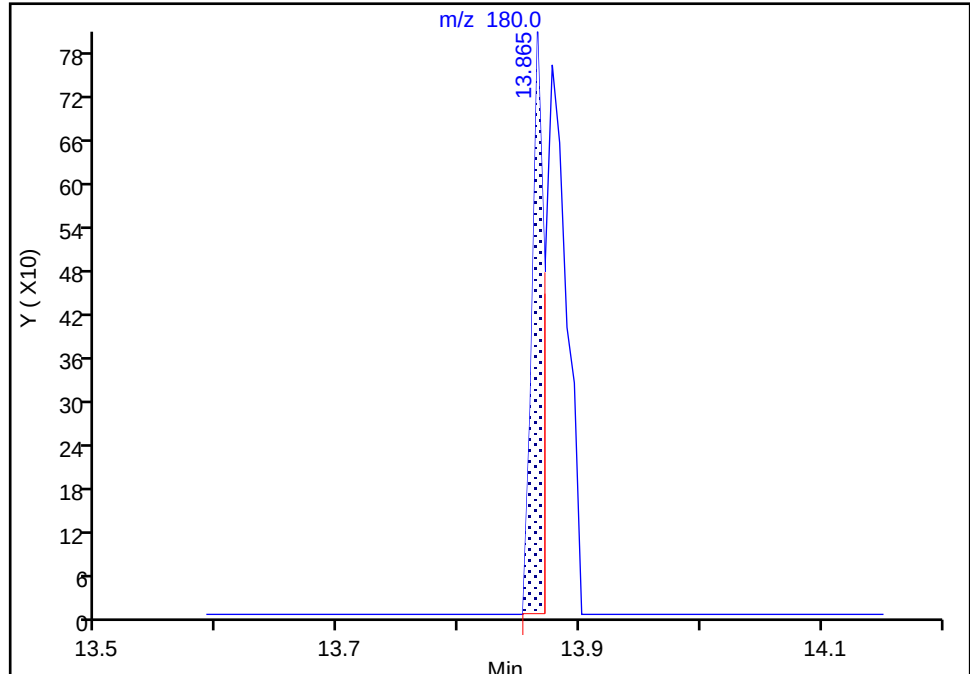
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X12.D
Injection Date: 31-Mar-2025 15:52:30 Instrument ID: 19094
Lims ID: IC std1 0.02
Client ID:
Operator ID: ecr105096 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

150 1,3,5-Trichlorobenzene, CAS: 108-70-3
Signal: 1

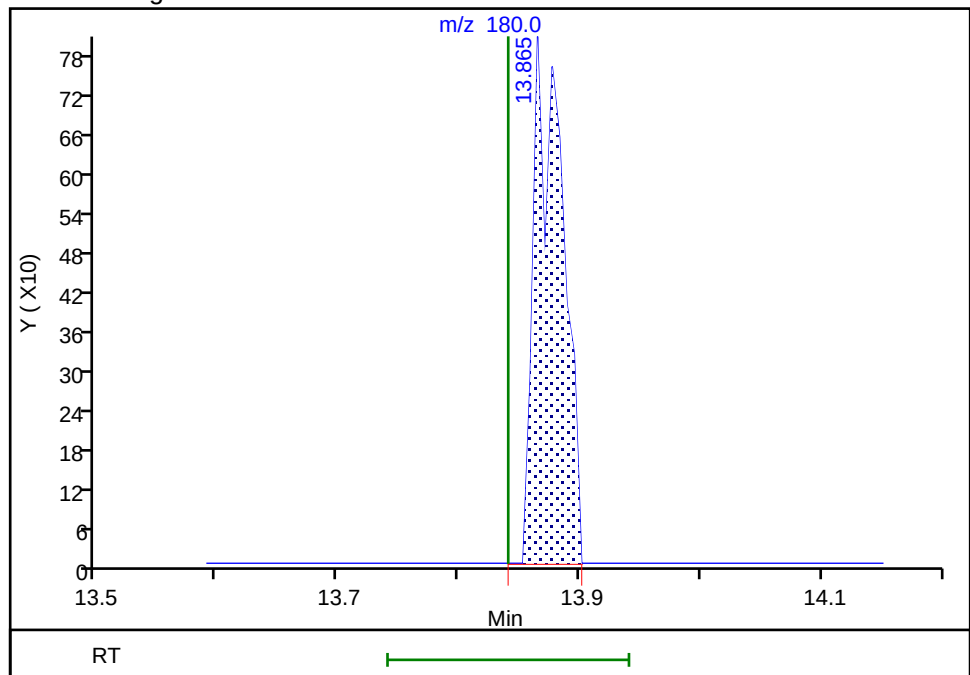
RT: 13.86
Area: 573
Amount: 0.019652
Amount Units: ug/l

Processing Integration Results



RT: 13.86
Area: 1355
Amount: 0.015829
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:00:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X13.D
 Lims ID: IC std2 0.06
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 31-Mar-2025 16:13:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142485-014
 Misc. Info.: IC STD2 0.06
 Operator ID: ecr105096 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 12-Apr-2025 07:04:21 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1648

First Level Reviewer: N7YK

Date: 01-Apr-2025 16:05:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.843	1.843	0.000	89	3992	0.0600	0.0612	
5 Chloromethane	50	2.038	2.032	0.006	96	6677	0.0600	0.0724	
7 Butadiene	39	2.129	2.129	0.000	90	5384	0.0600	0.0645	
6 Vinyl chloride	62	2.136	2.142	-0.006	75	5216	0.0600	0.0648	
9 Bromomethane	94	2.422	2.422	0.000	1	3708	0.0600	0.0677	
10 Chloroethane	64	2.495	2.501	-0.006	83	2874	0.0600	0.0635	
11 Dichlorofluoromethane	67	2.727	2.721	0.006	95	8575	0.0600	0.0664	
12 Trichlorofluoromethane	101	2.745	2.812	-0.067	49	5696	0.0600	0.0598	
14 Ethyl ether	59	3.020	3.001	0.019	80	1456	0.0600	0.0444	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.074	3.080	-0.006	41	4828	0.0600	0.0680	M
16 Acrolein	56	3.221	3.160	0.061	66	10927	2.93	2.27	M
17 1,1-Dichloroethene	96	3.288	3.288	0.000	94	3110	0.0600	0.0683	
19 Acetone	43	3.452	3.312	0.140	3	4045	0.6000	0.7937	M
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.330	3.324	0.006	62	2625	0.0600	0.0522	
21 Iodomethane	142	3.471	3.471	0.000	95	5375	0.0600	0.0614	
22 Ethyl bromide	108	3.495	3.495	0.000	29	2428	0.0601	0.0574	
23 Carbon disulfide	76	3.574	3.574	0.000	99	9628	0.0600	0.0659	
24 Methyl acetate	43		3.690				ND	ND	
26 3-Chloro-1-propene	41	3.727	3.721	0.006	90	6637	0.0600	0.0697	
27 Methylene Chloride	84	3.904	3.885	0.019	51	3099	0.0600	0.0647	
* 28 t-Butyl alcohol-d10 (IS)	65	3.922	3.910	0.012	97	69368	50.0	50.0	
29 2-Methyl-2-propanol	59	4.019	4.019	0.000	1	321	1.20	0.2270	M
31 Acrylonitrile	53		4.221				ND	ND	
32 Methyl tert-butyl ether	73	4.269	4.269	0.000	62	6793	0.0600	0.0641	
33 trans-1,2-Dichloroethene	96	4.300	4.281	0.019	95	3300	0.0600	0.0647	
34 Hexane	57	4.684	4.696	-0.012	86	4415	0.0600	0.0573	
36 1,1-Dichloroethane	63	4.940	4.928	0.012	88	6859	0.0600	0.0672	M
37 Isopropyl ether	45	5.001	4.989	0.012	94	11058	0.0600	0.0628	
38 2-Chloro-1,3-butadiene	53	5.074	5.037	0.037	83	5481	0.0600	0.0612	
40 Tert-butyl ethyl ether	59	5.537	5.537	0.000	93	10017	0.0600	0.0641	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43		5.732				ND	ND	
42 cis-1,2-Dichloroethene	96	5.812	5.769	0.043	82	4082	0.0600	0.0670	M
43 2,2-Dichloropropane	77	5.775	5.787	-0.012	66	5265	0.0600	0.0620	
44 Propionitrile	54		5.836				ND	ND	
47 Methacrylonitrile	67	6.110	6.031	0.079	79	3490	0.6000	2.78	M
48 Chlorobromomethane	128	6.129	6.098	0.031	82	710	0.0600	0.0339	
49 Tetrahydrofuran	71		6.123				ND	ND	
S 46 1,2-Dichloroethene, Total	100				0			0.1317	
50 Chloroform	83	6.269	6.257	0.012	86	6276	0.0600	0.0660	
\$ 52 Dibromofluoromethane (Surr)	113	6.476	6.476	0.000	94	427379	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.501	6.494	0.007	44	6110	0.0600	0.0710	
54 Cyclohexane	56	6.592	6.598	-0.006	50	6478	0.0600	0.0650	
55 1,1-Dichloropropene	75	6.726	6.708	0.018	91	5469	0.0600	0.0665	
56 Carbon tetrachloride	117	6.720	6.714	0.006	79	4271	0.0600	0.0559	
57 Isobutyl alcohol	41		6.866				ND	ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.940	6.933	0.007	77	76413	10.0	10.1	
59 Benzene	78	6.982	6.970	0.012	91	14491	0.0600	0.0613	
60 1,2-Dichloroethane	62	7.055	7.043	0.012	9	2443	0.0600	0.0493	
63 Tert-amyl methyl ether	73	7.171	7.177	-0.006	89	8560	0.0600	0.0685	
* 64 Fluorobenzene (IS)	96	7.385	7.385	0.000	99	1965958	10.0	10.0	
65 n-Heptane	43	7.409	7.409	0.000	68	4529	0.0600	0.0619	
67 n-Butanol	56		7.793				ND	ND	
68 Trichloroethene	95	7.891	7.878	0.013	94	3690	0.0600	0.0611	
69 Methylcyclohexane	83	8.201	8.195	0.006	93	6158	0.0600	0.0629	
70 1,2-Dichloropropane	63	8.214	8.208	0.006	88	3526	0.0600	0.0620	
71 2-ethoxy-2-methyl butane	87	8.238	8.232	0.006	89	5337	0.0600	0.0623	
72 Methyl methacrylate	69		8.311				ND	ND	
74 Dibromomethane	93	8.342	8.323	0.019	25	942	0.0600	0.0441	M
73 1,4-Dioxane	88		8.329				ND	ND	
76 Dichlorobromomethane	83	8.579	8.561	0.018	92	3880	0.0600	0.0617	
77 2-Nitropropane	41	8.854	8.835	0.019	37	2753	0.3000	0.3761	M
79 1-Bromo-2-chloroethane	63	8.994	8.963	0.031	1	2532	0.0600	0.0516	M
80 cis-1,3-Dichloropropene	75	9.177	9.134	0.043	92	4708	0.0600	0.0583	M
82 4-Methyl-2-pentanone (MIBK)	43	9.335	9.317	0.018	96	11368	0.6000	0.3829	
\$ 83 Toluene-d8 (Surr)	98	9.463	9.463	0.000	94	1890264	10.0	9.97	
84 Toluene	92	9.549	9.543	0.006	95	9499	0.0600	0.0639	
85 trans-1,3-Dichloropropene	75	9.866	9.817	0.049	82	2542	0.0600	0.0438	M
104 Ethyl methacrylate	69	9.927	9.890	0.037	32	1386	0.0600	0.0337	M
106 1,1,2-Trichloroethane	97	10.049	10.030	0.019	86	1892	0.0600	0.0593	M
S 105 1,3-Dichloropropene, Total	100				0			0.1021	
107 Tetrachloroethene	166	10.128	10.116	0.012	95	4668	0.0600	0.0678	
108 1,3-Dichloropropane	76	10.213	10.195	0.018	88	3207	0.0600	0.0558	
109 2-Hexanone	43	10.311	10.250	0.061	1	1250	0.6000	1.70	
111 Chlorodibromomethane	129	10.427	10.414	0.013	81	2449	0.0600	0.0620	
112 Ethylene Dibromide	107	10.561	10.530	0.031	95	1348	0.0600	0.0466	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	86	1401748	10.0	10.0	
114 1-Chlorohexane	91	11.000	10.987	0.013	53	8077	0.0600	0.0880	M
115 Chlorobenzene	112	11.006	11.000	0.006	93	10198	0.0600	0.0642	
116 1,1,1,2-Tetrachloroethane	131	11.091	11.091	0.000	39	2823	0.0600	0.0540	
117 Ethylbenzene	91	11.103	11.091	0.012	99	18516	0.0600	0.0637	
119 m-Xylene & p-Xylene	106	11.225	11.213	0.012	99	12732	0.1200	0.1169	
S 118 Xylenes, Total	106				0			0.1709	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 o-Xylene	106	11.554	11.548	0.006	96	5630	0.0600	0.0541	
121 Styrene	104	11.585	11.561	0.024	91	8813	0.0600	0.0552	
122 Bromoform	173	11.731	11.719	0.012	89	887	0.0600	0.0406	
123 Isopropylbenzene	105	11.859	11.853	0.006	96	15440	0.0600	0.0614	
\$ 126 4-Bromofluorobenzene (Surr)	95	11.999	11.999	0.000	90	695917	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83		12.103				ND	ND	
128 Bromobenzene	156	12.115	12.115	0.000	91	3480	0.0600	0.0572	
129 trans-1,4-Dichloro-2-butene	53	12.152	12.128	0.024	76	3715	0.6000	0.3155	
130 1,2,3-Trichloropropane	110	12.158	12.146	0.012	71	390	0.0600	0.0434	
131 N-Propylbenzene	91	12.195	12.188	0.007	99	19671	0.0600	0.0604	
132 2-Chlorotoluene	126	12.268	12.262	0.006	97	4181	0.0600	0.0645	
133 1,3,5-Trimethylbenzene	105	12.329	12.323	0.006	94	14034	0.0600	0.0615	
134 4-Chlorotoluene	126	12.371	12.353	0.018	97	3755	0.0600	0.0565	
135 tert-Butylbenzene	134	12.573	12.566	0.007	93	3025	0.0600	0.0589	
136 Pentachloroethane	167	12.603	12.597	0.006	76	2083	0.0600	0.0558	
137 1,2,4-Trimethylbenzene	105	12.621	12.609	0.012	95	14152	0.0600	0.0605	
138 sec-Butylbenzene	105	12.737	12.731	0.006	93	16704	0.0600	0.0590	
139 1,3-Dichlorobenzene	146	12.841	12.829	0.012	95	7183	0.0600	0.0600	
140 4-Isopropyltoluene	119	12.847	12.841	0.006	96	12903	0.0600	0.0537	
* 141 1,4-Dichlorobenzene-d4	152	12.890	12.890	0.000	95	750682	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.908	12.908	0.000	85	8258	0.0600	0.0648	
143 1,2,3-Trimethylbenzene	120	12.920	12.914	0.006	96	6120	0.0600	0.0576	
144 Benzyl chloride	126	12.999	12.981	0.018	1	227	0.0600	0.0155	
145 p-Diethylbenzene	119	13.127	13.115	0.012	92	7098	0.0600	0.0514	
146 n-Butylbenzene	92	13.146	13.133	0.013	86	5992	0.0600	0.0553	M
147 1,2-Dichlorobenzene	146	13.176	13.164	0.012	92	6144	0.0600	0.0594	
149 1,2-Dibromo-3-Chloropropane	155		13.713				ND	ND	
150 1,3,5-Trichlorobenzene	180	13.865	13.841	0.024	94	4766	0.0600	0.0551	
151 1,2,4-Trichlorobenzene	180	14.286	14.261	0.025	88	3291	0.0600	0.0508	
152 Hexachlorobutadiene	225	14.347	14.347	0.000	88	1841	0.0600	0.0593	
153 Naphthalene	128	14.475	14.438	0.037	90	5688	0.0600	0.0548	M
154 1,2,3-Trichlorobenzene	180	14.603	14.584	0.019	93	2990	0.0600	0.0530	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_GAS826_00264

Amount Added: 1.20

Units: uL

MSV_LL_#1_826_00163

Amount Added: 1.20

Units: uL

MSV_LL_#2_826_00174

Amount Added: 1.20

Units: uL

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 12-Apr-2025 07:04:22

Chrom Revision: 2.3 08-Apr-2025 13:07:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X13.D

Injection Date: 31-Mar-2025 16:13:30

Instrument ID: 19094

Operator ID: ecr105096

Lims ID: IC std2 0.06

Worklist Smp#: 14

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

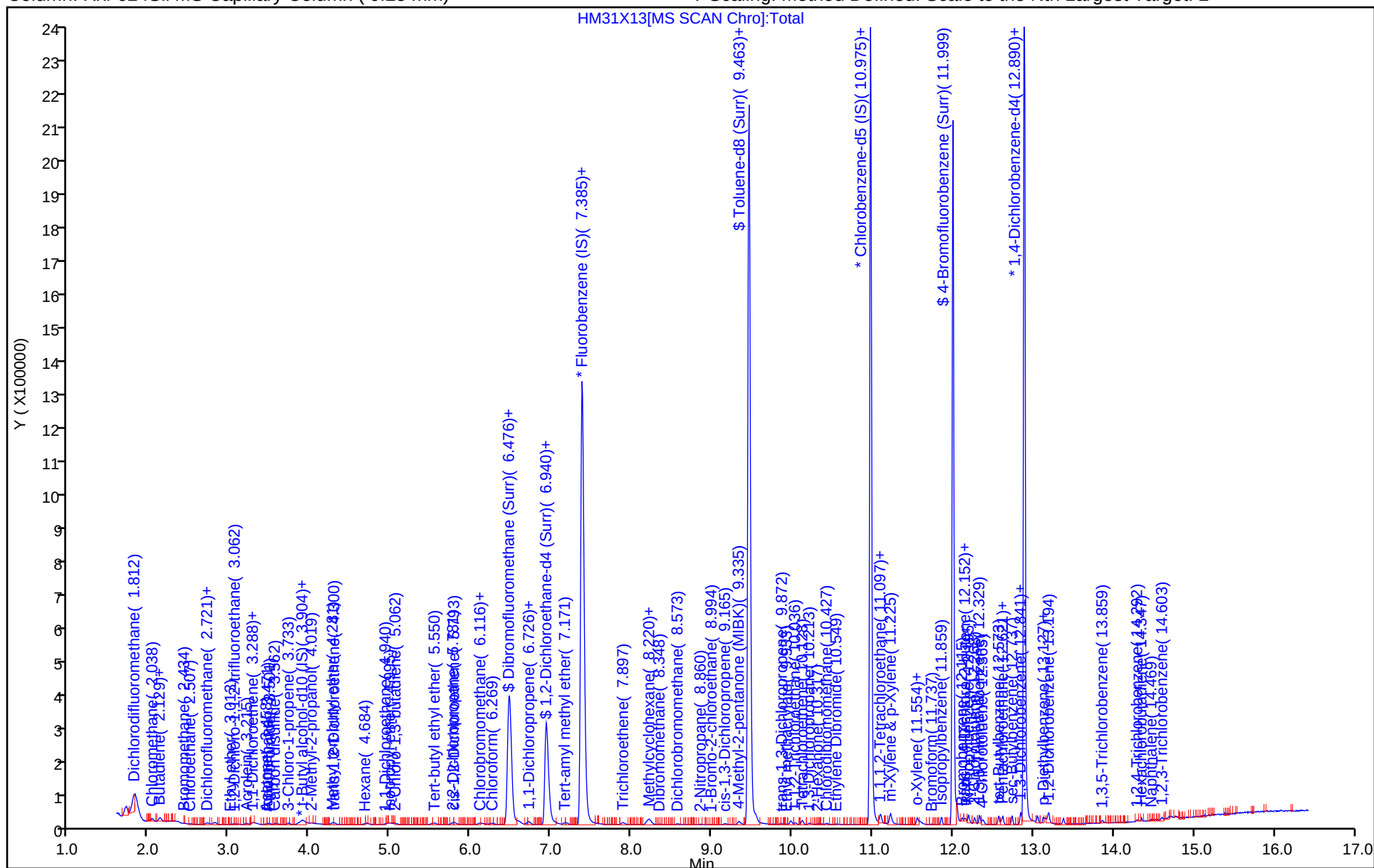
ALS Bottle#: 13

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

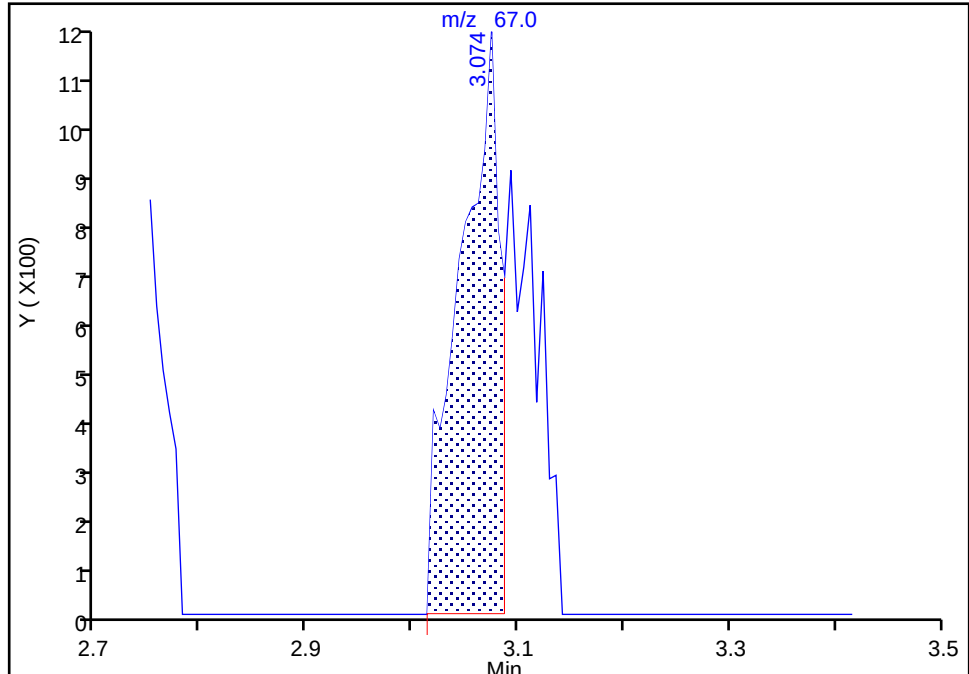
Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X13.D
Injection Date: 31-Mar-2025 16:13:30 Instrument ID: 19094
Lims ID: IC std2 0.06
Client ID:
Operator ID: ecr105096 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

15 1,2-Dichloro-1,1,2-trifluoroetha, CAS: 354-23-4

Signal: 1

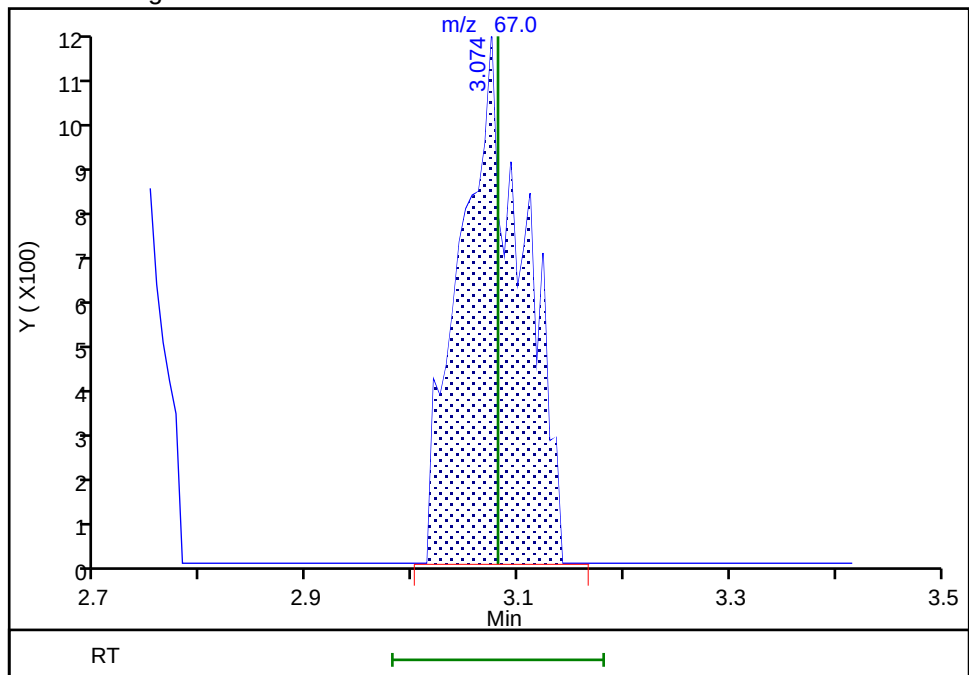
RT: 3.07
Area: 3110
Amount: 0.045876
Amount Units: ug/l

Processing Integration Results



RT: 3.07
Area: 4828
Amount: 0.068025
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:01:58 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

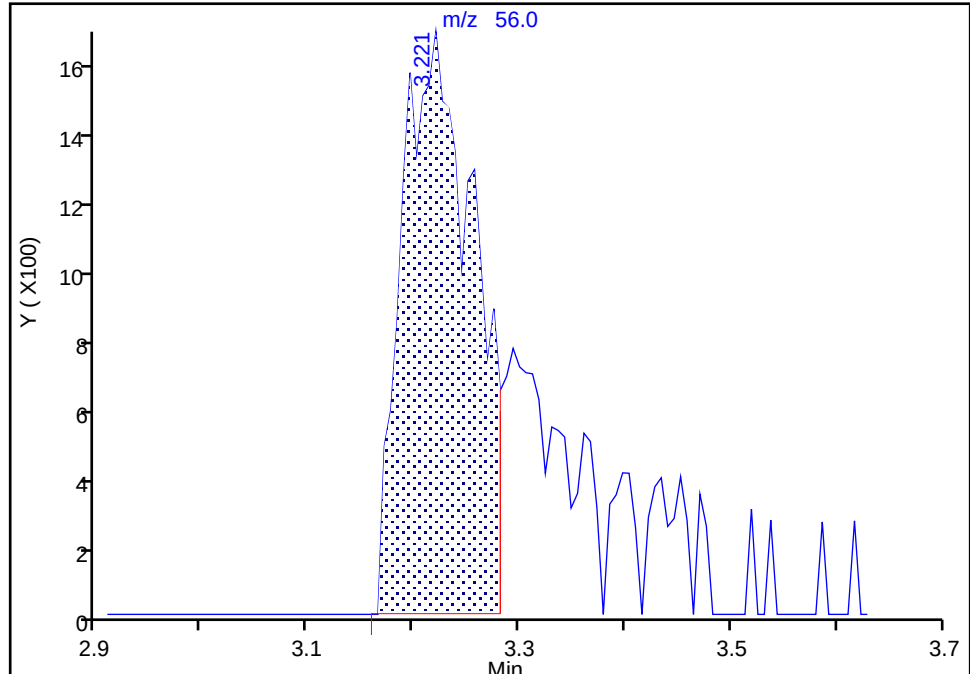
Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X13.D
Injection Date: 31-Mar-2025 16:13:30 Instrument ID: 19094
Lims ID: IC std2 0.06
Client ID:
Operator ID: ecr105096 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

16 Acrolein, CAS: 107-02-8

Signal: 1

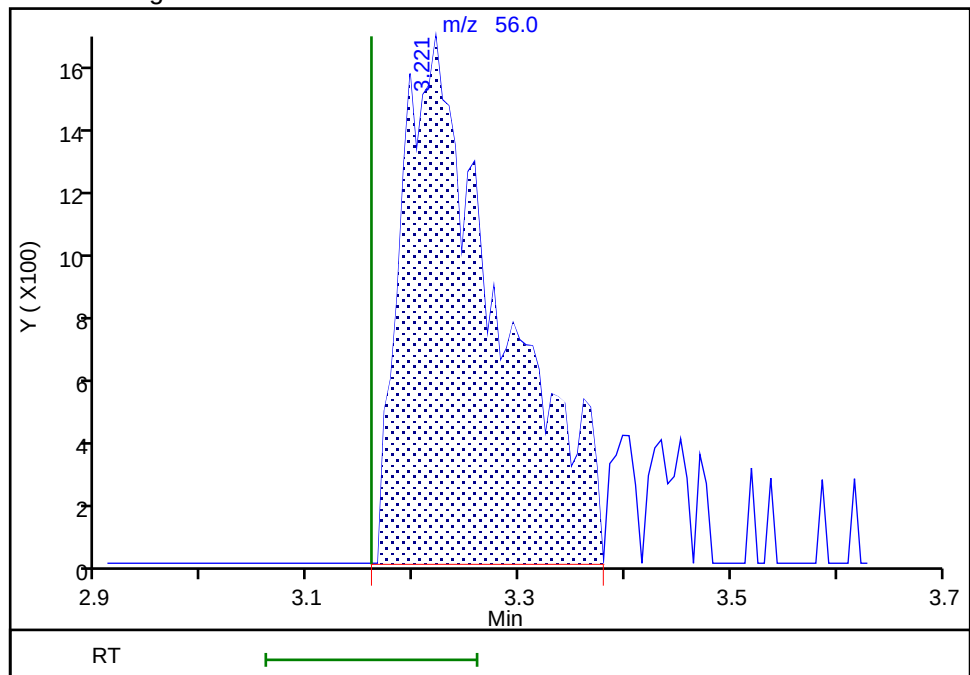
RT: 3.22
Area: 7953
Amount: 1.695594
Amount Units: ug/l

Processing Integration Results



RT: 3.22
Area: 10927
Amount: 2.268245
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:02:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

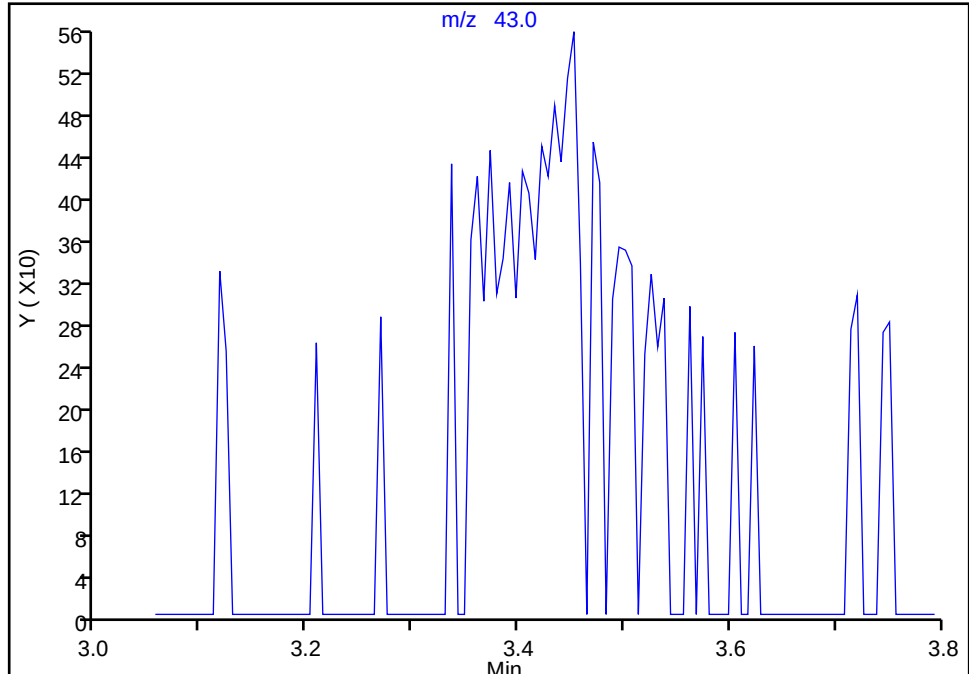
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Injection Date: 31-Mar-2025 16:13:30 Instrument ID: 19094
Lims ID: IC std2 0.06
Client ID:
Operator ID: ecr105096 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

19 Acetone, CAS: 67-64-1

Signal: 1

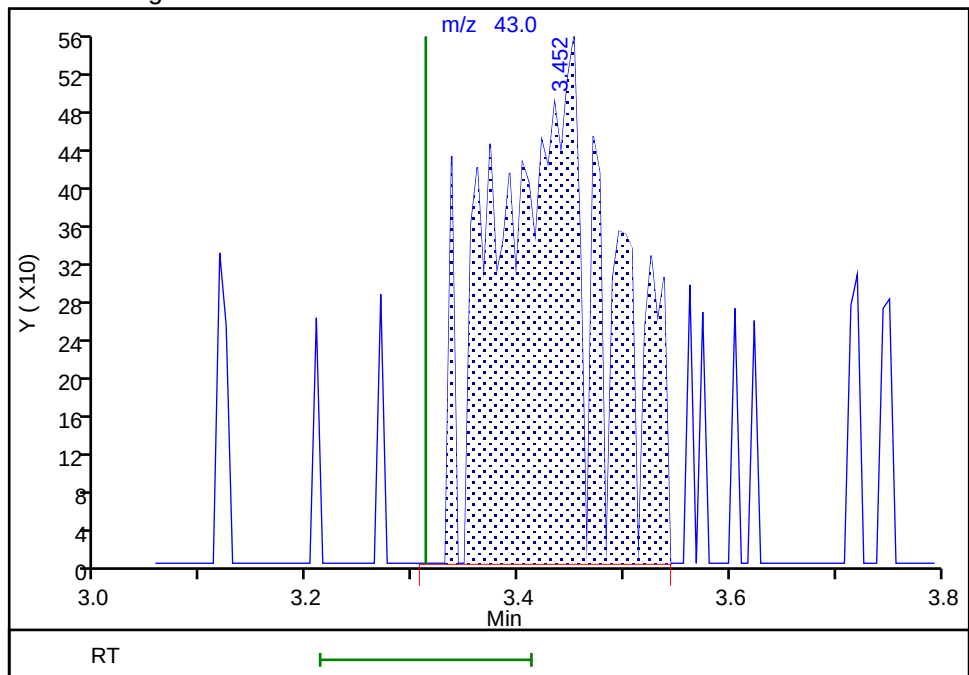
Not Detected
Expected RT: 3.31

Processing Integration Results



Manual Integration Results

RT: 3.45
Area: 4045
Amount: 0.793732
Amount Units: ug/l



Reviewer: N7YK, 01-Apr-2025 16:02:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

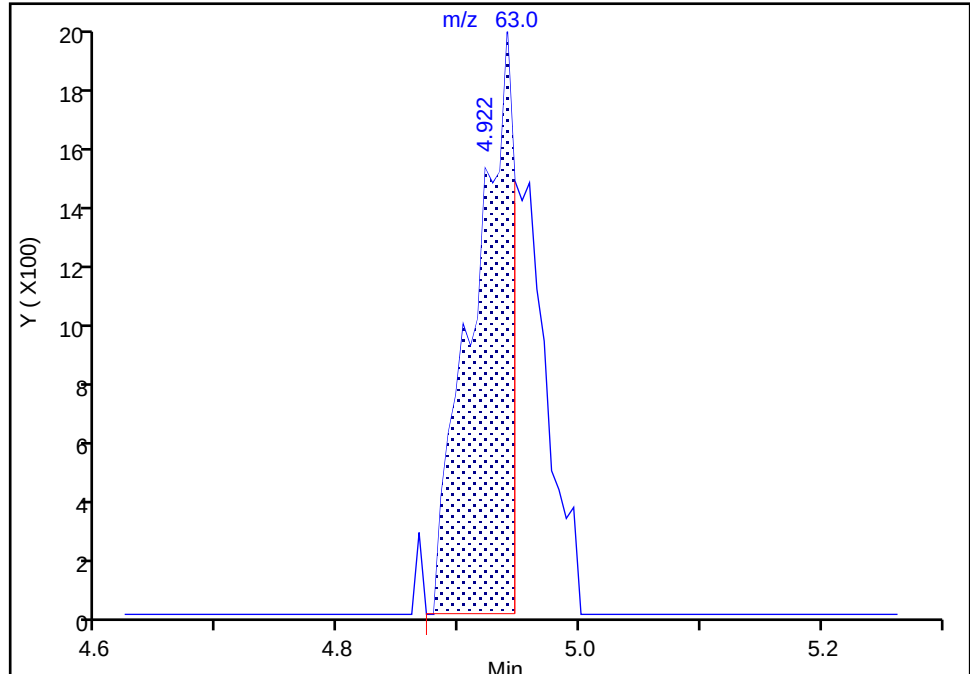
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Injection Date: 31-Mar-2025 16:13:30 Instrument ID: 19094
Lims ID: IC std2 0.06
Client ID:
Operator ID: ecr105096 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

36 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

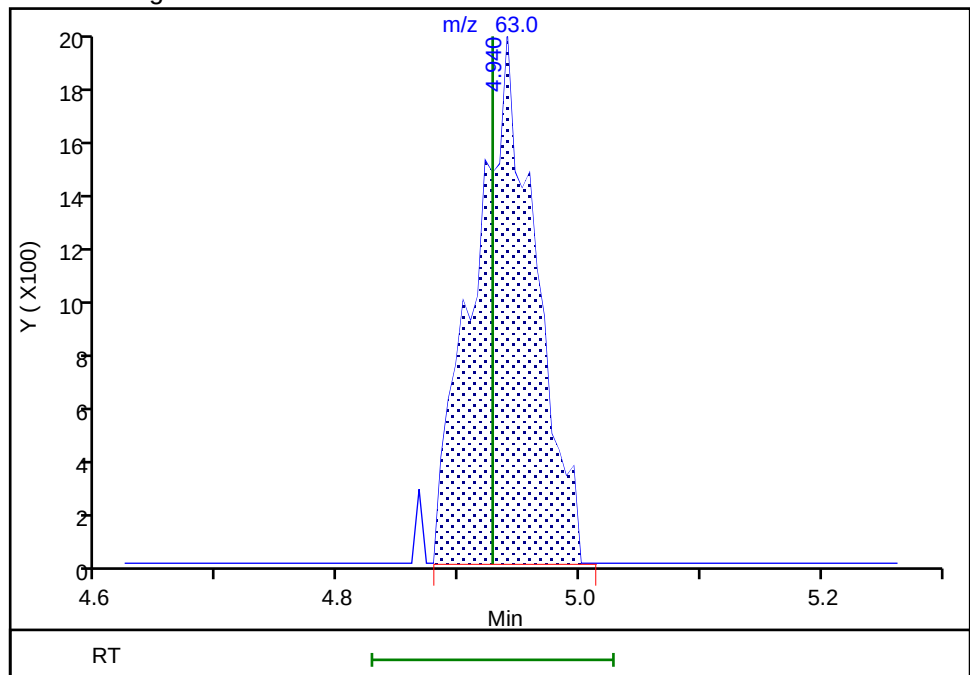
RT: 4.92
Area: 4523
Amount: 0.046305
Amount Units: ug/l

Processing Integration Results



RT: 4.94
Area: 6859
Amount: 0.067242
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:03:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

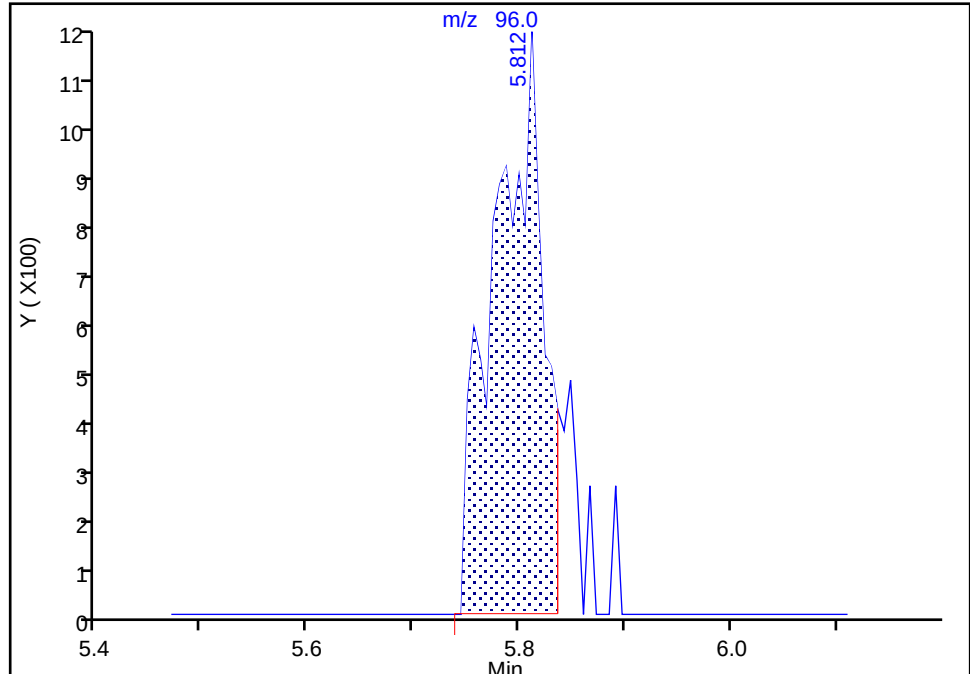
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Injection Date: 31-Mar-2025 16:13:30 Instrument ID: 19094
Lims ID: IC std2 0.06
Client ID:
Operator ID: ecr105096 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

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

Signal: 1

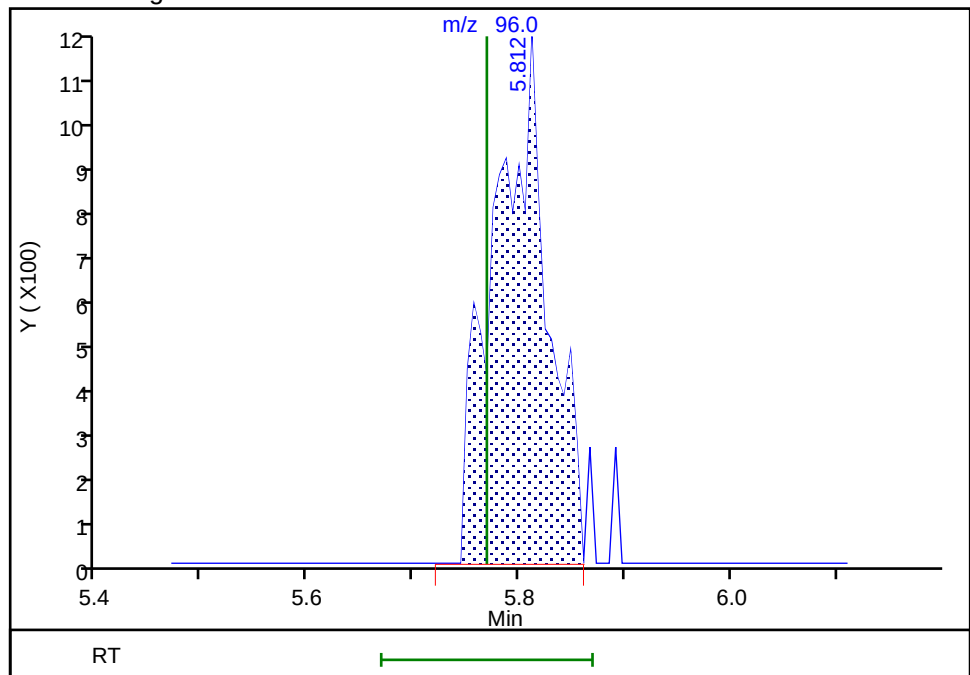
RT: 5.81
Area: 3686
Amount: 0.061371
Amount Units: ug/l

Processing Integration Results



RT: 5.81
Area: 4082
Amount: 0.067044
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 11-Apr-2025 08:54:08 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Environment Testing, LLC

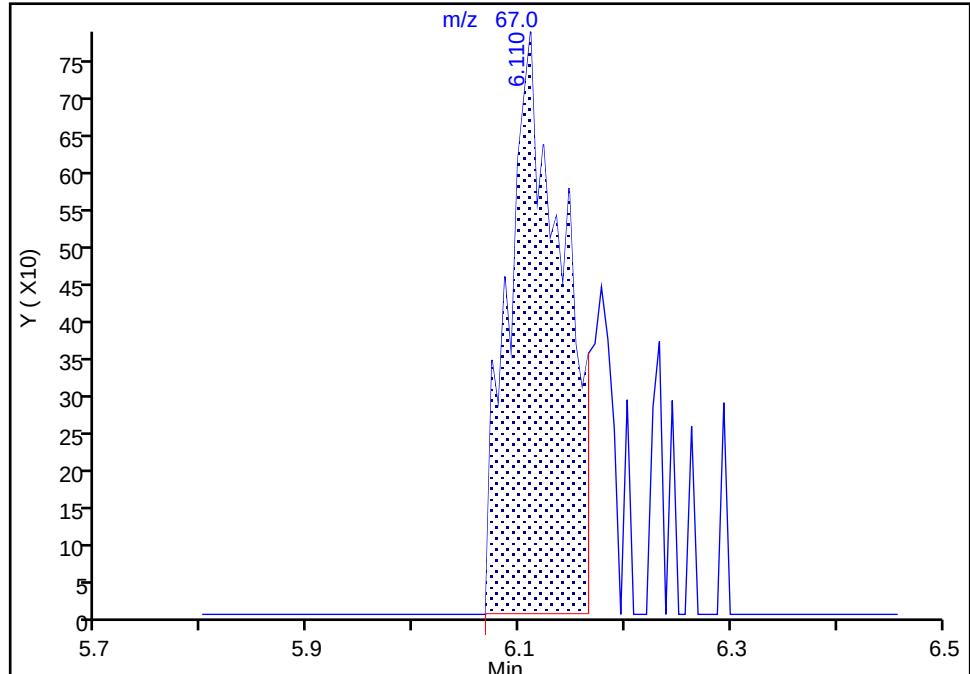
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Injection Date: 31-Mar-2025 16:13:30 Instrument ID: 19094
Lims ID: IC std2 0.06
Client ID:
Operator ID: ecr105096 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

47 Methacrylonitrile, CAS: 126-98-7

Signal: 1

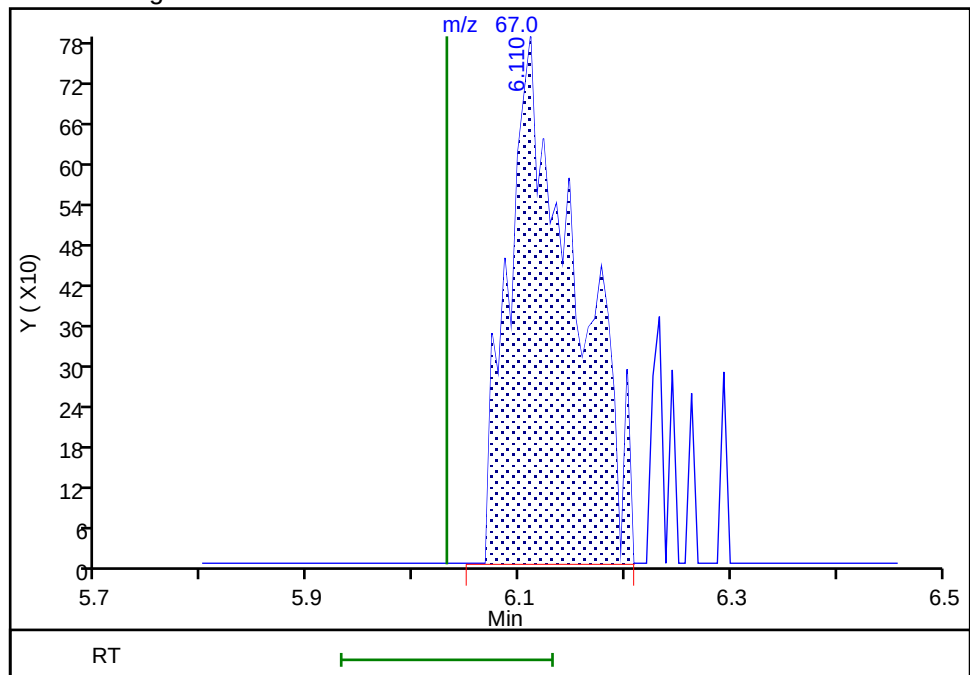
RT: 6.11
Area: 2859
Amount: 0.273326
Amount Units: ug/l

Processing Integration Results



RT: 6.11
Area: 3490
Amount: 2.778220
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:03:33 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

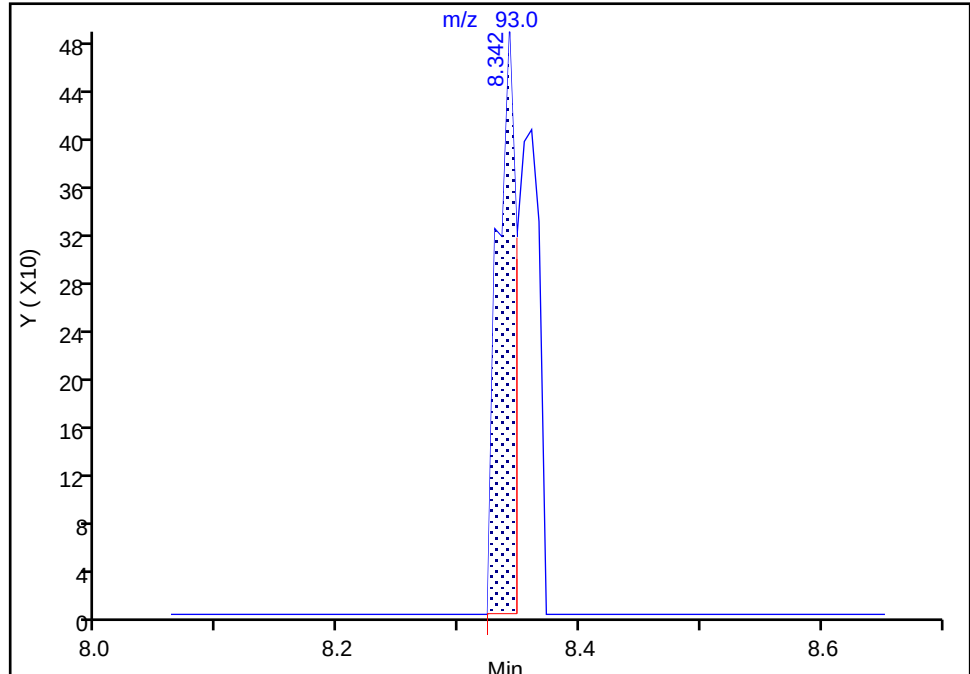
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Injection Date: 31-Mar-2025 16:13:30 Instrument ID: 19094
Lims ID: IC std2 0.06
Client ID:
Operator ID: ecr105096 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 Dibromomethane, CAS: 74-95-3

Signal: 1

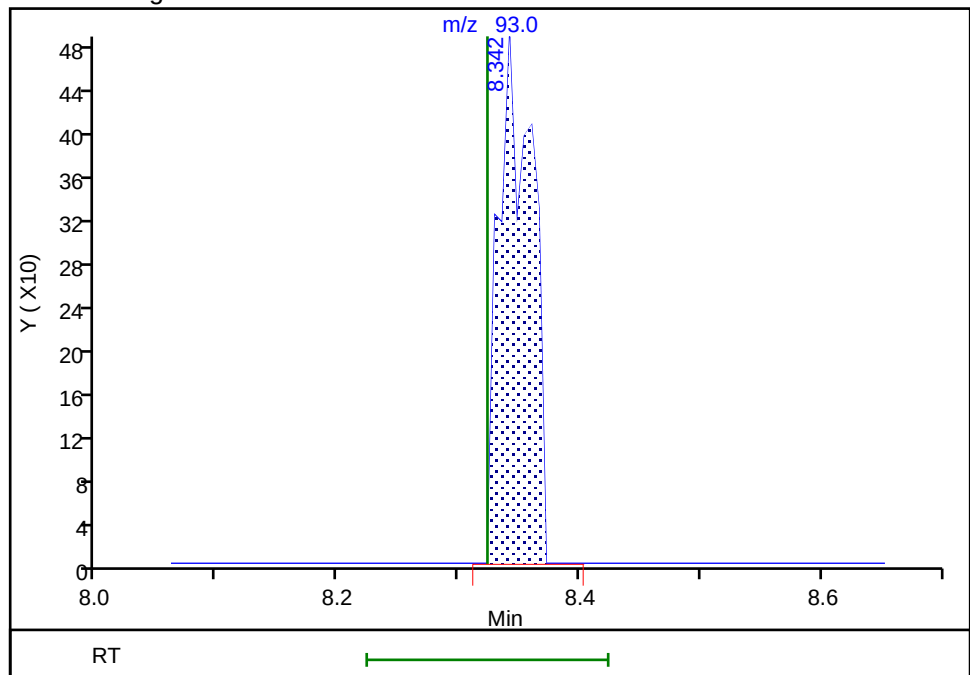
RT: 8.34
Area: 528
Amount: 0.079890
Amount Units: ug/l

Processing Integration Results



RT: 8.34
Area: 942
Amount: 0.044145
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 02-Apr-2025 15:16:25 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

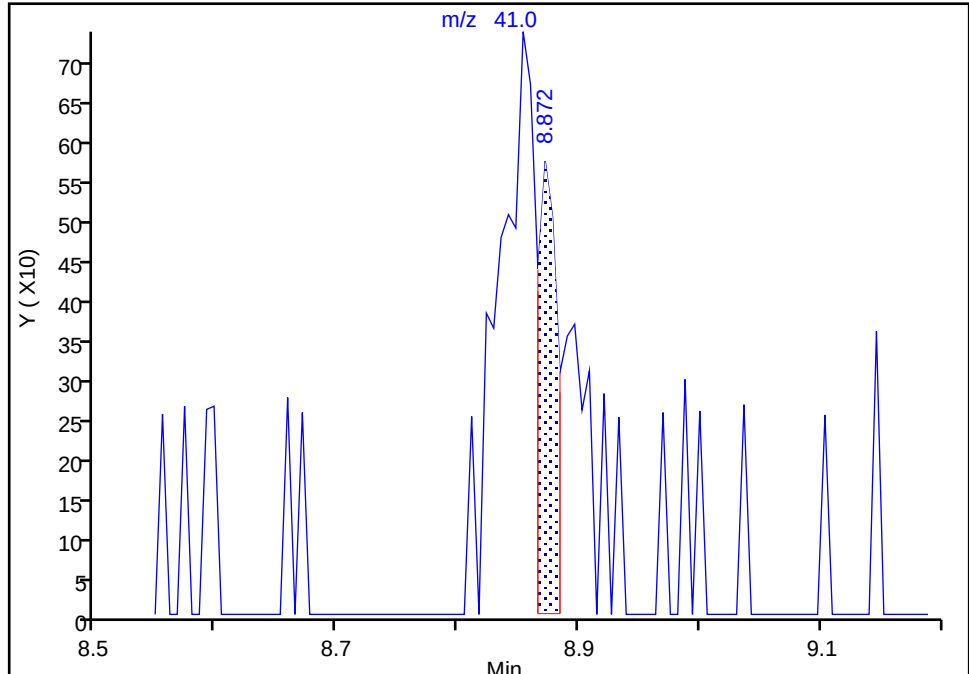
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Injection Date: 31-Mar-2025 16:13:30 Instrument ID: 19094
Lims ID: IC std2 0.06
Client ID:
Operator ID: ecr105096 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

77 2-Nitropropane, CAS: 79-46-9

Signal: 1

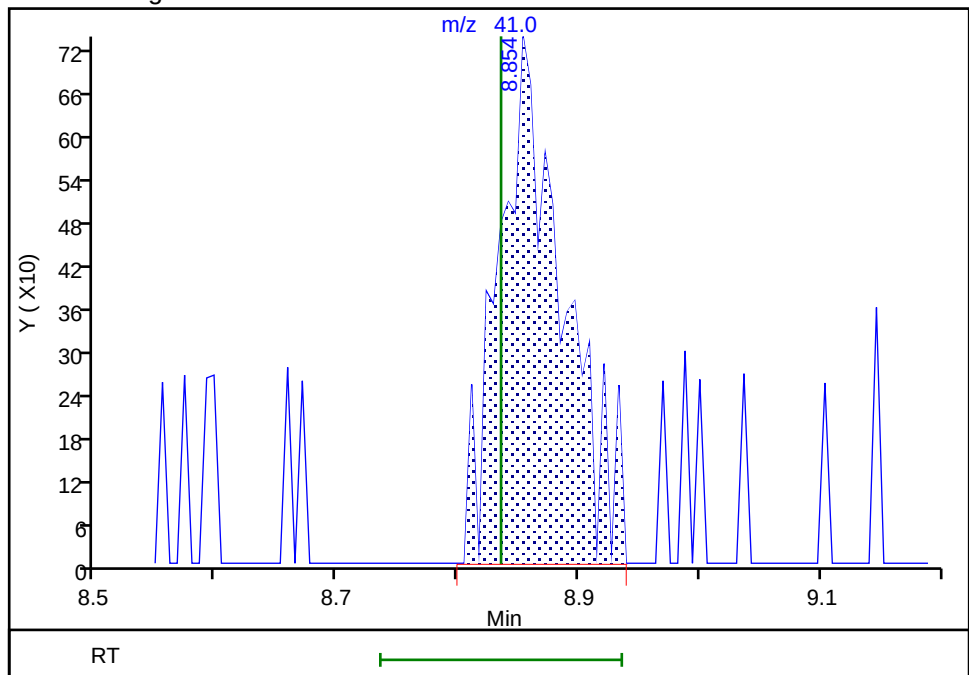
RT: 8.87
Area: 668
Amount: 0.127137
Amount Units: ug/l

Processing Integration Results



RT: 8.85
Area: 2753
Amount: 0.376107
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:04:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

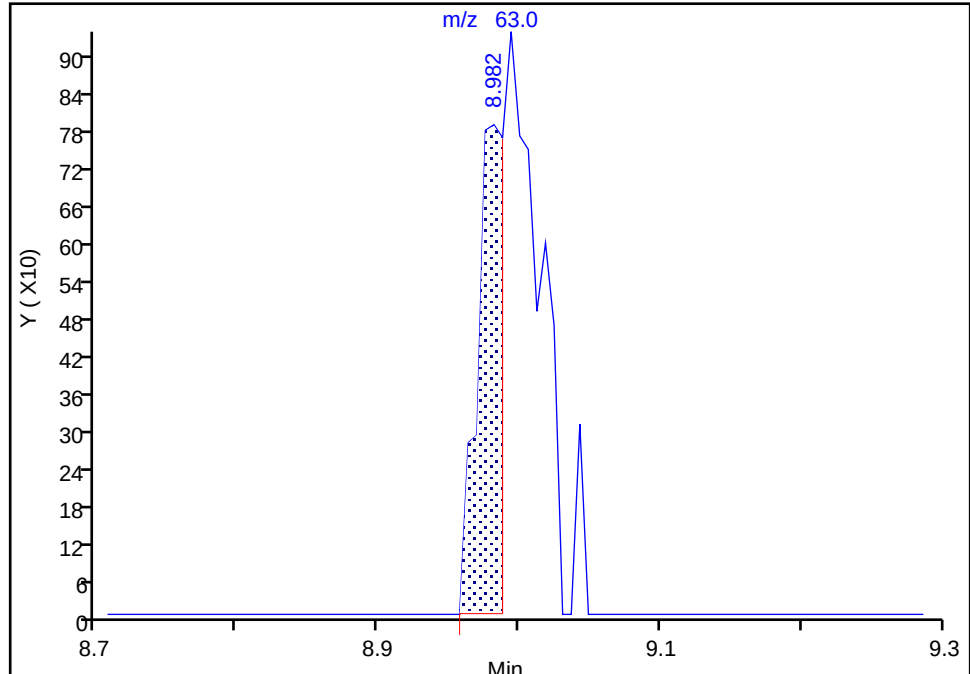
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Injection Date: 31-Mar-2025 16:13:30 Instrument ID: 19094
Lims ID: IC std2 0.06
Client ID:
Operator ID: ecr105096 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

79 1-Bromo-2-chloroethane, CAS: 107-04-0

Signal: 1

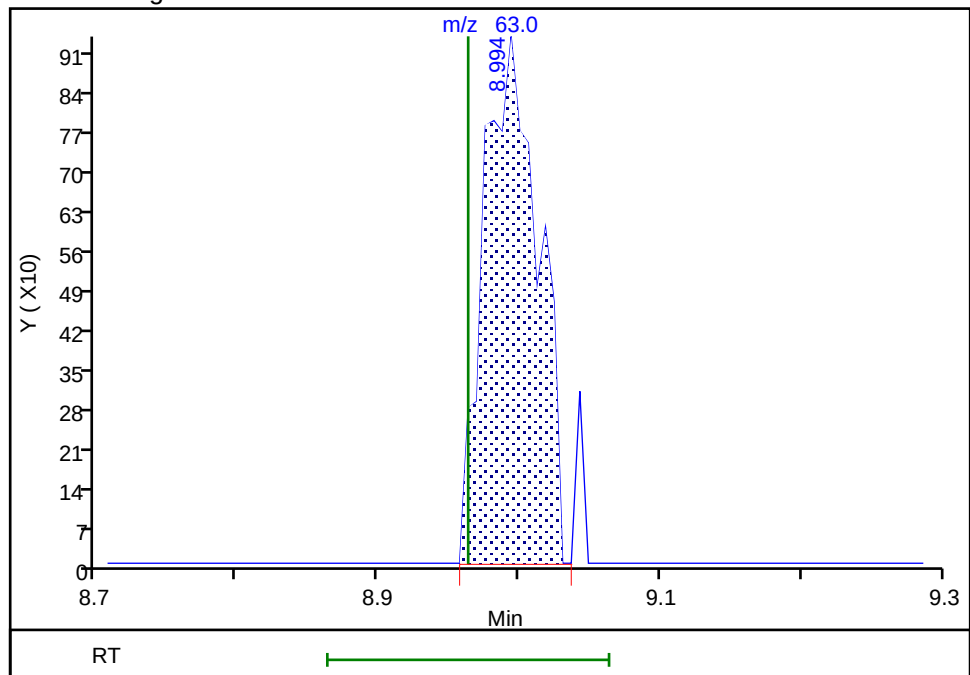
RT: 8.98
Area: 1063
Amount: 0.046362
Amount Units: ug/l

Processing Integration Results



RT: 8.99
Area: 2532
Amount: 0.051600
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:04:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

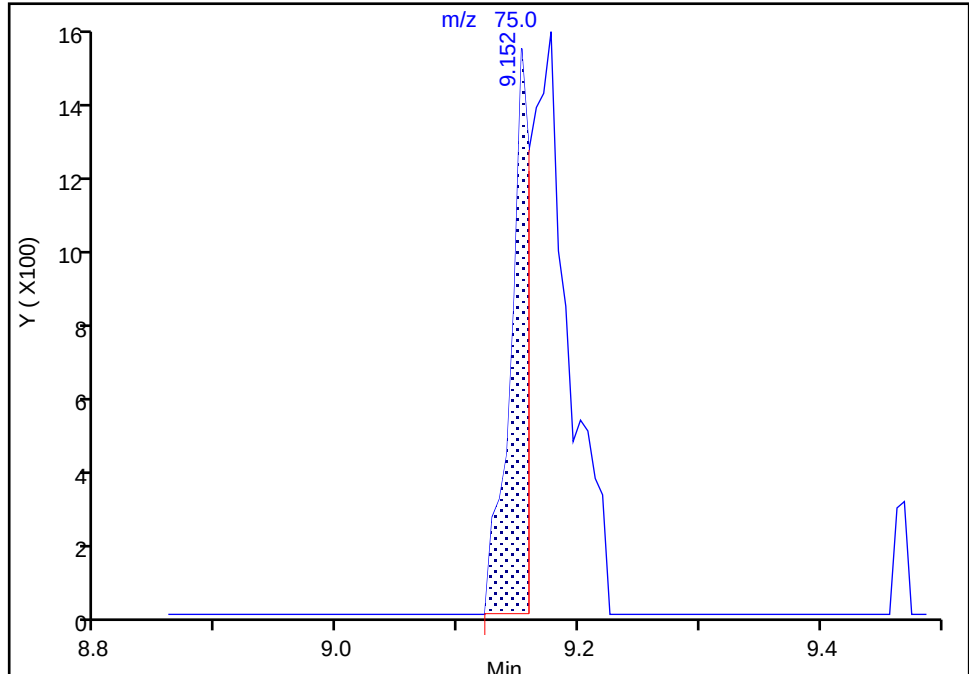
Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X13.D
Injection Date: 31-Mar-2025 16:13:30 Instrument ID: 19094
Lims ID: IC std2 0.06
Client ID:
Operator ID: ecr105096 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

80 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

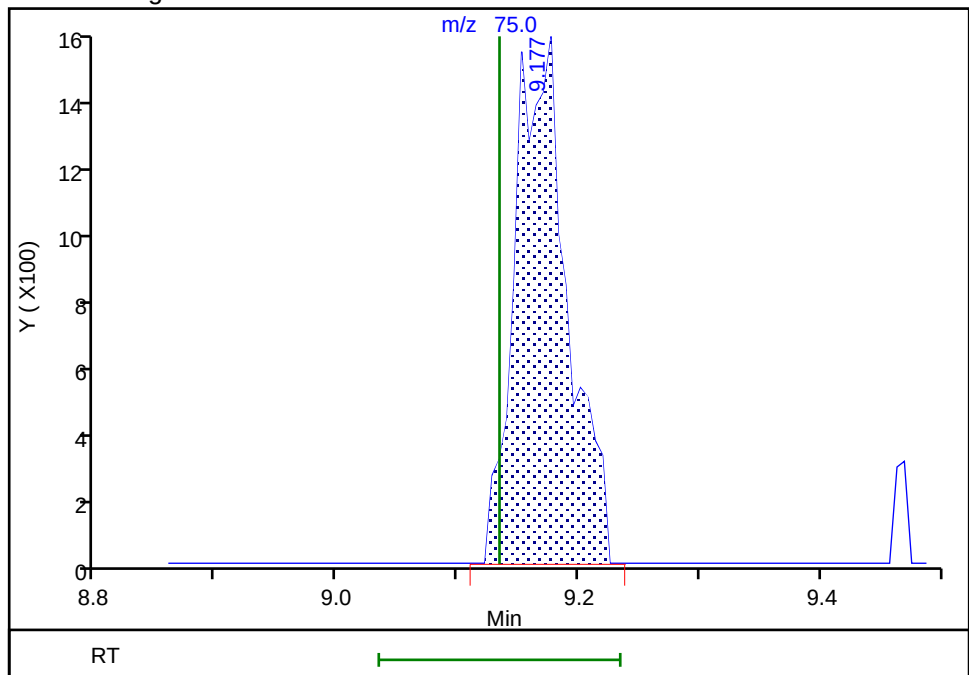
RT: 9.15
Area: 1684
Amount: 0.042476
Amount Units: ug/l

Processing Integration Results



RT: 9.18
Area: 4708
Amount: 0.058323
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:04:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

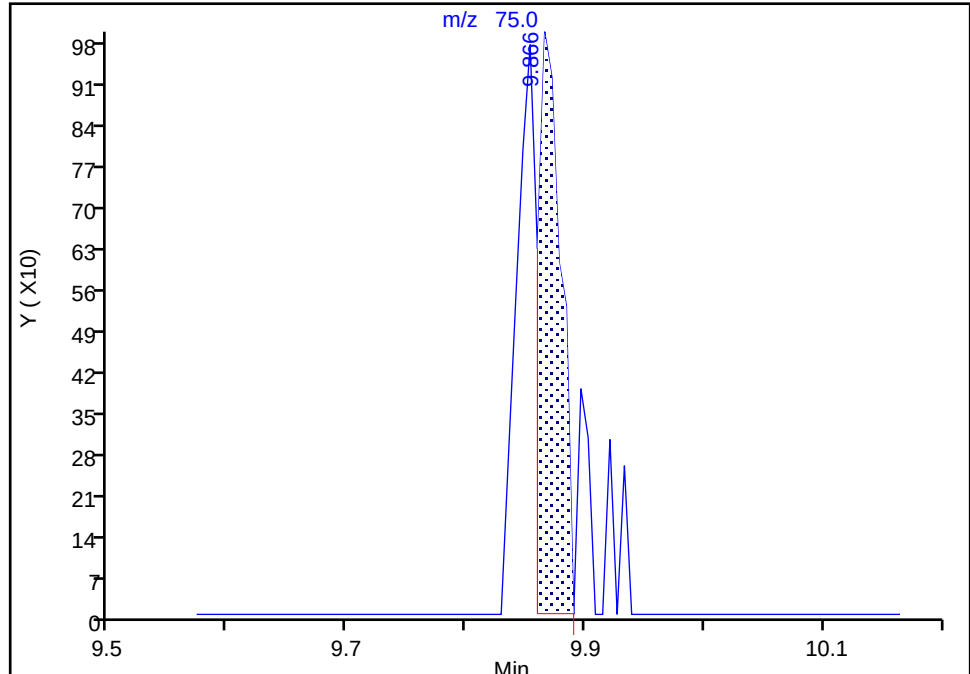
Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X13.D
Injection Date: 31-Mar-2025 16:13:30 Instrument ID: 19094
Lims ID: IC std2 0.06
Client ID:
Operator ID: ecr105096 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

85 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

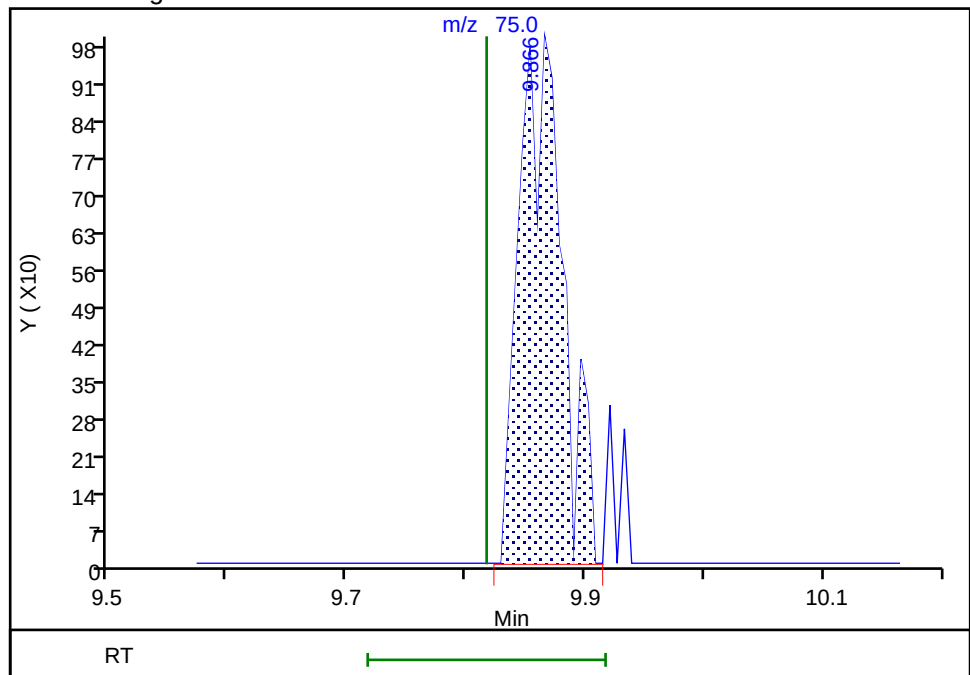
RT: 9.87
Area: 1346
Amount: 0.061247
Amount Units: ug/l

Processing Integration Results



RT: 9.87
Area: 2542
Amount: 0.043765
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:04:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

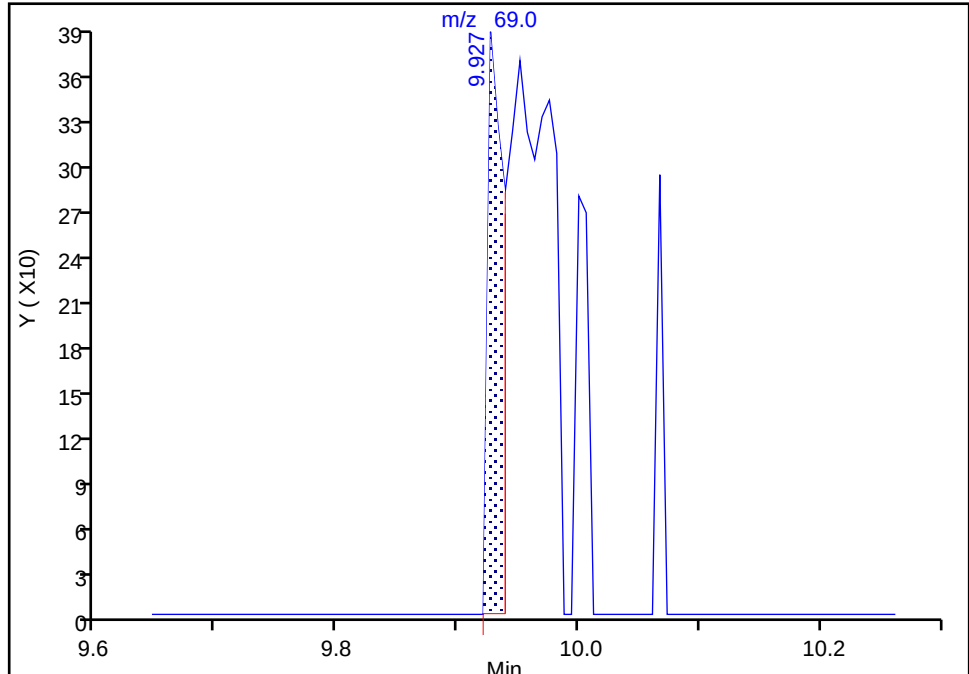
Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X13.D
Injection Date: 31-Mar-2025 16:13:30 Instrument ID: 19094
Lims ID: IC std2 0.06
Client ID:
Operator ID: ecr105096 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

104 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

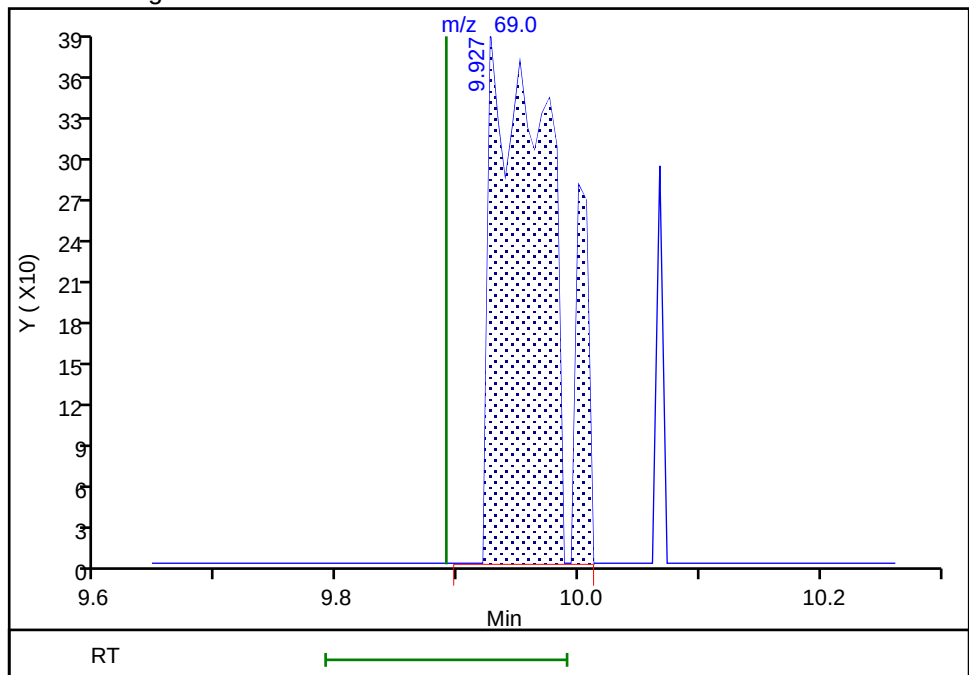
RT: 9.93
Area: 359
Amount: 0.062846
Amount Units: ug/l

Processing Integration Results



RT: 9.93
Area: 1386
Amount: 0.033708
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:04:24 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

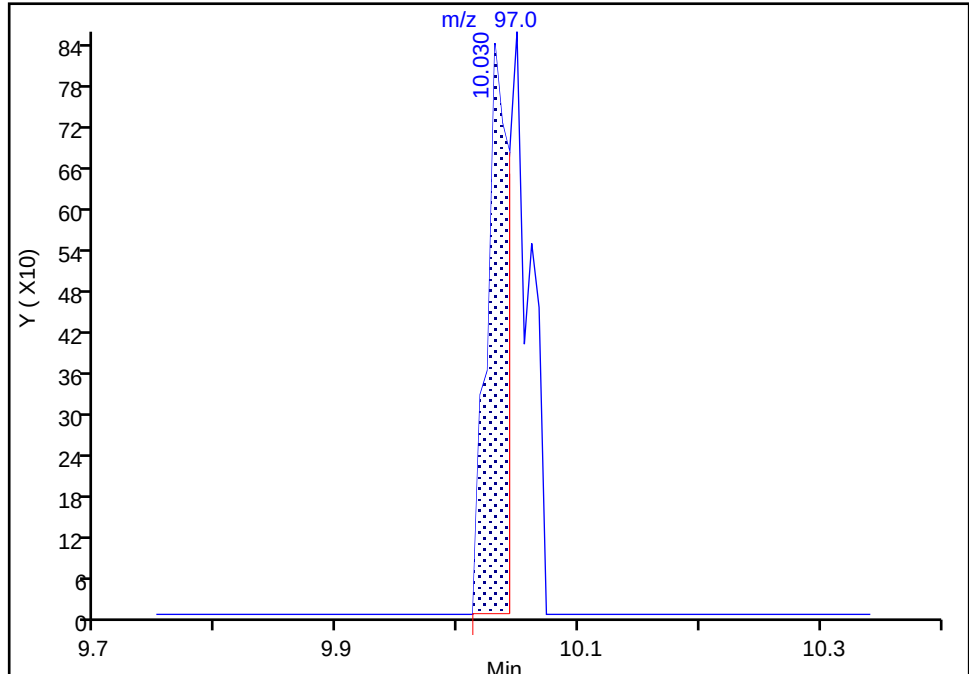
Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X13.D
Injection Date: 31-Mar-2025 16:13:30 Instrument ID: 19094
Lims ID: IC std2 0.06
Client ID:
Operator ID: ecr105096 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

106 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

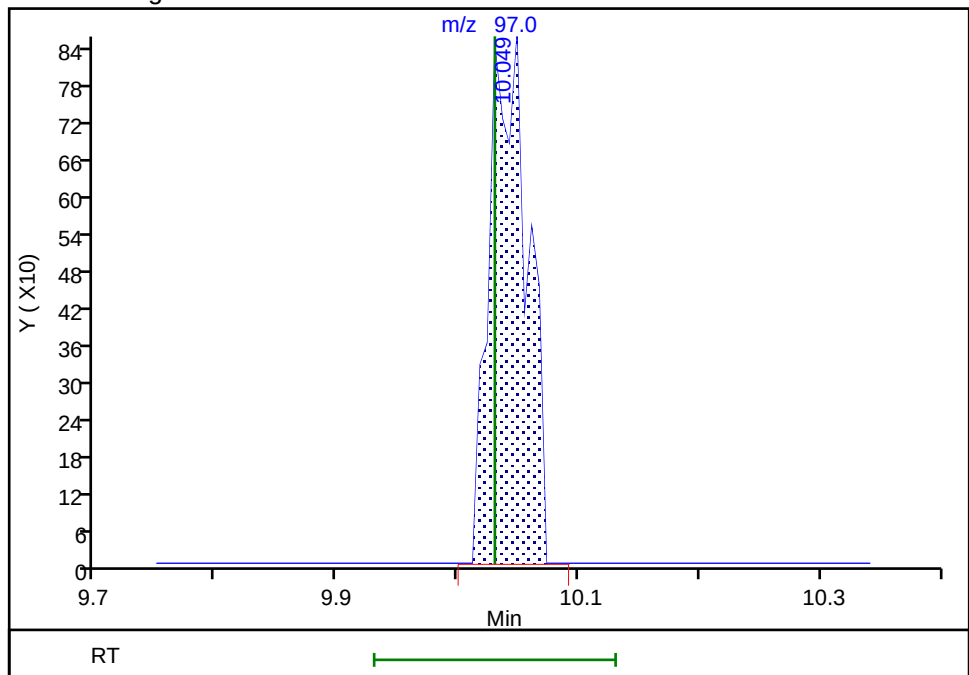
RT: 10.03
Area: 1069
Amount: 0.050296
Amount Units: ug/l

Processing Integration Results



RT: 10.05
Area: 1892
Amount: 0.059289
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:04:31 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

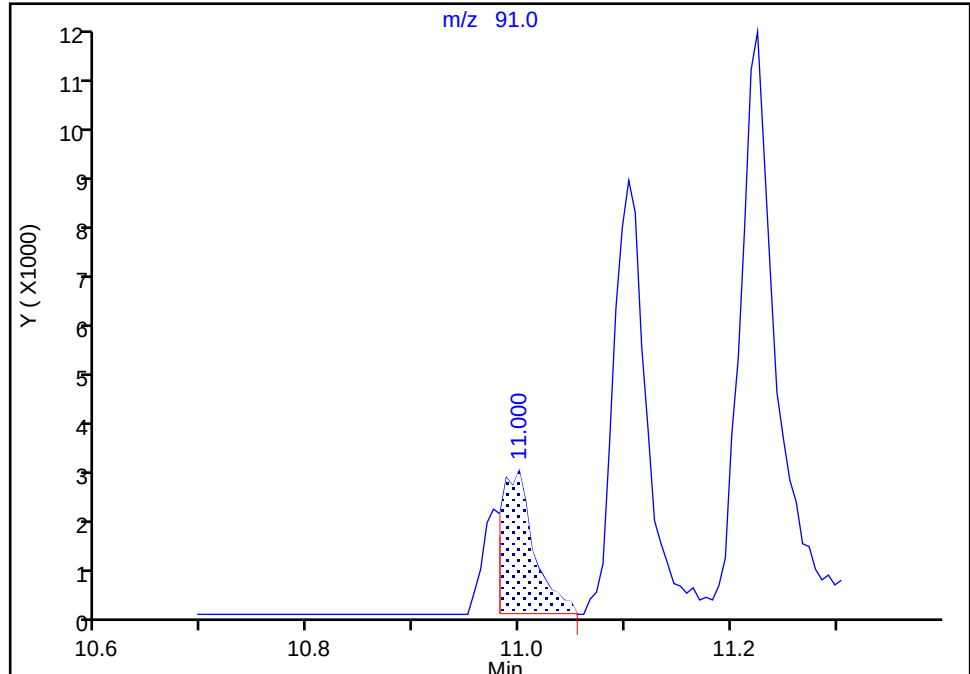
Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X13.D
Injection Date: 31-Mar-2025 16:13:30 Instrument ID: 19094
Lims ID: IC std2 0.06
Client ID:
Operator ID: ecr105096 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

114 1-Chlorohexane, CAS: 544-10-5

Signal: 1

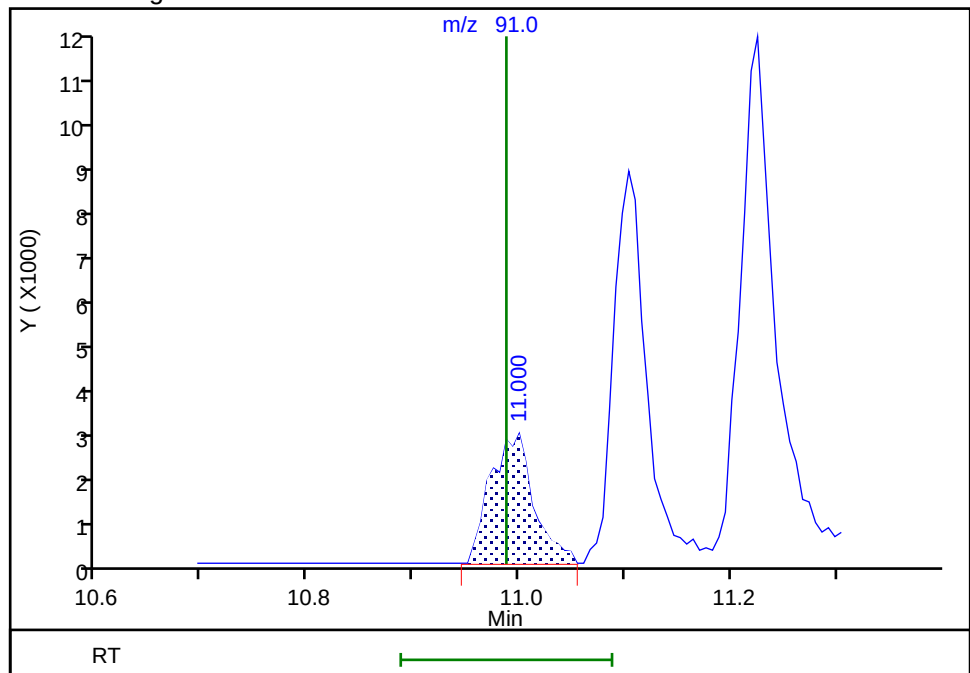
RT: 11.00
Area: 6147
Amount: 0.057828
Amount Units: ug/l

Processing Integration Results



RT: 11.00
Area: 8077
Amount: 0.088023
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:04:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

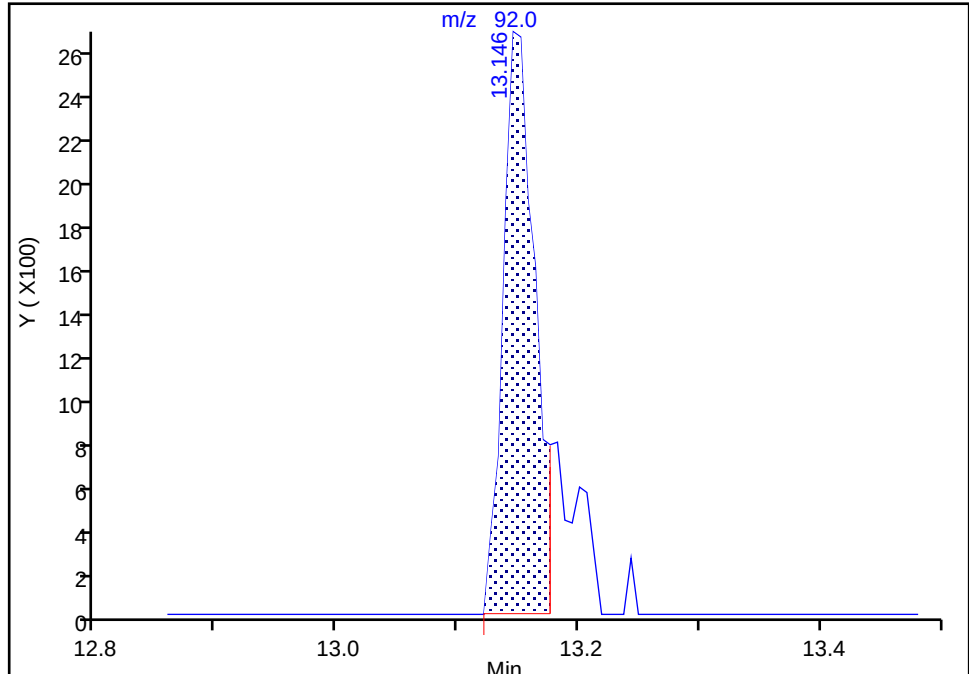
Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X13.D
Injection Date: 31-Mar-2025 16:13:30 Instrument ID: 19094
Lims ID: IC std2 0.06
Client ID:
Operator ID: ecr105096 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

146 n-Butylbenzene, CAS: 104-51-8

Signal: 1

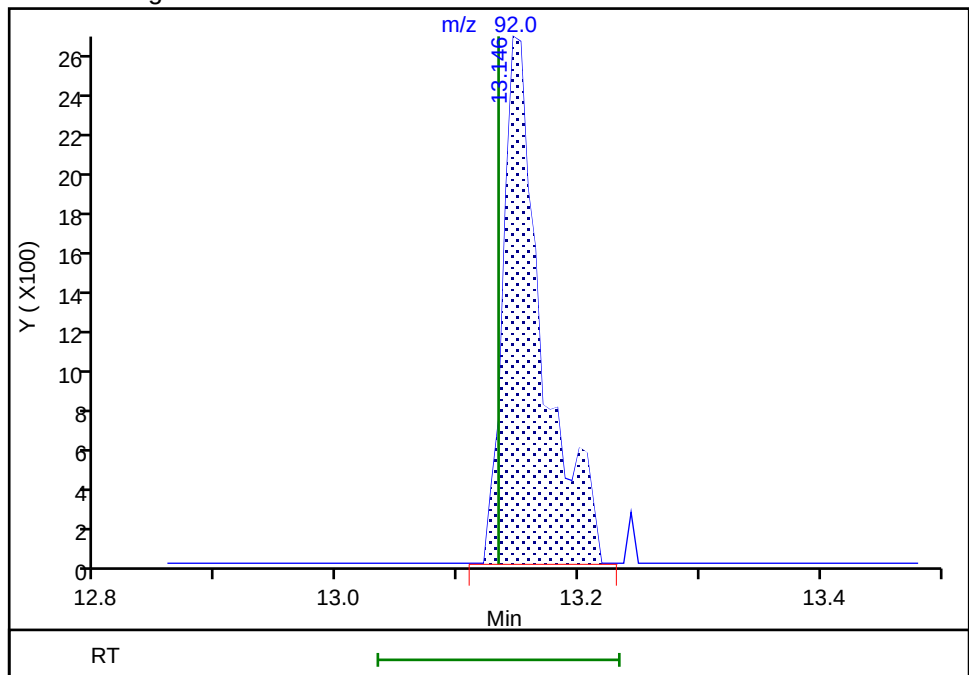
RT: 13.15
Area: 4880
Amount: 0.045943
Amount Units: ug/l

Processing Integration Results



RT: 13.15
Area: 5992
Amount: 0.055339
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:05:20 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

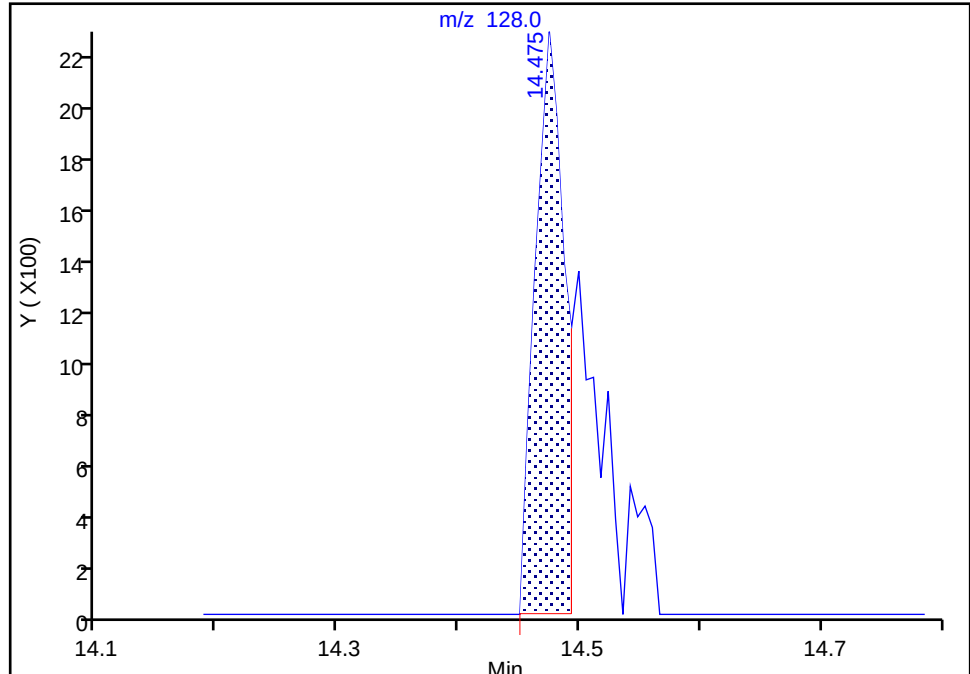
Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X13.D
Injection Date: 31-Mar-2025 16:13:30 Instrument ID: 19094
Lims ID: IC std2 0.06
Client ID:
Operator ID: ecr105096 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

153 Naphthalene, CAS: 91-20-3

Signal: 1

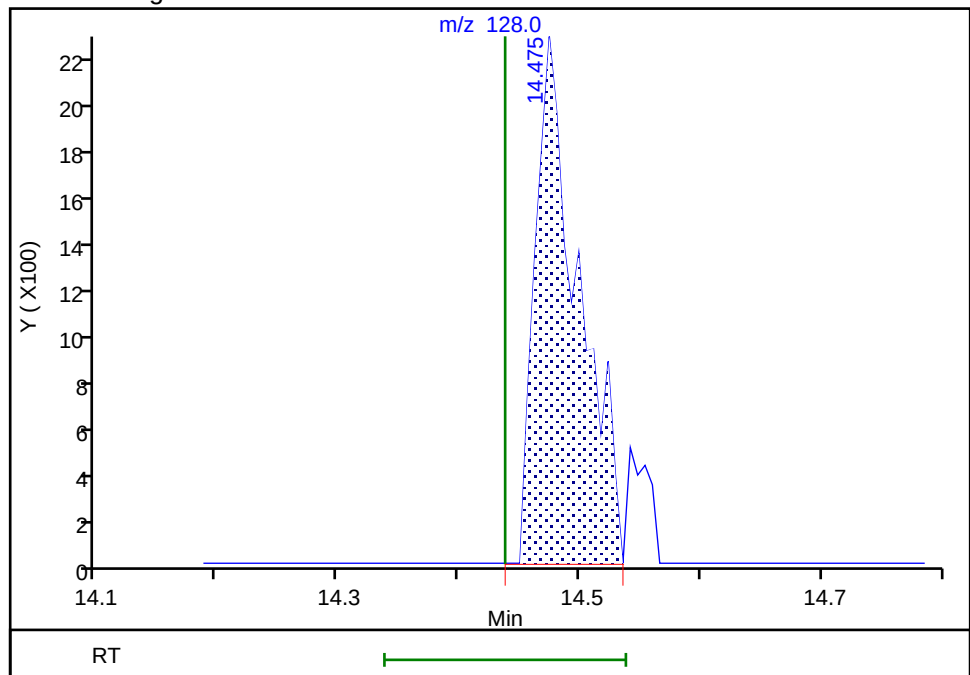
RT: 14.47
Area: 3868
Amount: 0.049931
Amount Units: ug/l

Processing Integration Results



RT: 14.47
Area: 5688
Amount: 0.054804
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:05:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X14.D
 Lims ID: IC std3 0.2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 31-Mar-2025 16:34:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142485-015
 Misc. Info.: IC STD3 0.2
 Operator ID: ecr105096 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 12-Apr-2025 07:04:35 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1648

First Level Reviewer: N7YK

Date: 01-Apr-2025 16:08:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.843	1.843	0.000	98	15352	0.2000	0.2288	
5 Chloromethane	50	2.026	2.032	-0.006	98	20496	0.2000	0.2161	
7 Butadiene	39	2.123	2.129	-0.006	93	17886	0.2000	0.2084	
6 Vinyl chloride	62	2.129	2.142	-0.013	83	17554	0.2000	0.2123	
9 Bromomethane	94	2.422	2.422	0.000	79	11280	0.2000	0.2002	
10 Chloroethane	64	2.495	2.501	-0.006	98	9902	0.2000	0.2129	
11 Dichlorofluoromethane	67	2.715	2.721	-0.007	96	26365	0.2000	0.1987	
12 Trichlorofluoromethane	101	2.800	2.812	-0.012	51	20359	0.2000	0.2079	
14 Ethyl ether	59	3.001	3.001	0.000	89	6464	0.2000	0.1917	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.068	3.080	-0.012	91	15743	0.2000	0.2158	
16 Acrolein	56	3.172	3.160	0.012	98	36066	9.76	9.41	
17 1,1-Dichloroethene	96	3.275	3.288	-0.013	98	9738	0.2000	0.2079	
19 Acetone	43	3.330	3.312	0.018	20	7309	2.00	1.80	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.312	3.324	-0.012	46	10483	0.2000	0.2027	
21 Iodomethane	142	3.464	3.471	-0.007	98	18810	0.2000	0.2091	
22 Ethyl bromide	108	3.483	3.495	-0.012	50	8936	0.2003	0.2056	
23 Carbon disulfide	76	3.568	3.574	-0.006	98	29505	0.2000	0.1964	
24 Methyl acetate	43	3.763	3.690	0.073	30	2899	0.2000	0.6708	M
26 3-Chloro-1-propene	41	3.727	3.721	0.005	90	20336	0.2000	0.2078	
27 Methylene Chloride	84	3.891	3.885	0.006	91	10577	0.2000	0.2148	
* 28 t-Butyl alcohol-d10 (IS)	65	3.891	3.910	-0.019	91	55174	50.0	50.0	
29 2-Methyl-2-propanol	59	3.964	4.019	-0.055	28	3760	4.00	3.34	M
31 Acrylonitrile	53		4.221				ND	ND	
32 Methyl tert-butyl ether	73	4.257	4.269	-0.012	91	21433	0.2000	0.1968	
33 trans-1,2-Dichloroethene	96	4.281	4.281	0.000	96	10470	0.2000	0.1996	
34 Hexane	57	4.678	4.696	-0.018	93	15265	0.2000	0.1927	
36 1,1-Dichloroethane	63	4.927	4.928	-0.001	95	21337	0.2000	0.2035	
37 Isopropyl ether	45	4.982	4.989	-0.007	96	36695	0.2000	0.2028	
38 2-Chloro-1,3-butadiene	53	5.043	5.037	0.006	82	18123	0.2000	0.1969	
40 Tert-butyl ethyl ether	59	5.525	5.537	-0.012	98	33301	0.2000	0.2074	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43		5.732				ND	ND	
42 cis-1,2-Dichloroethene	96	5.775	5.769	0.006	82	11760	0.2000	0.1879	
43 2,2-Dichloropropane	77	5.781	5.787	-0.006	72	18433	0.2000	0.2112	
44 Propionitrile	54		5.836				ND	ND	
47 Methacrylonitrile	67	6.068	6.031	0.037	92	12373	2.00	3.64	
48 Chlorobromomethane	128	6.110	6.098	0.012	91	4306	0.2000	0.2002	
49 Tetrahydrofuran	71	6.128	6.123	0.005	41	1348	1.00	1.26	
S 46 1,2-Dichloroethene, Total	100				0			0.3875	
50 Chloroform	83	6.257	6.257	-0.001	93	19697	0.2000	0.2015	
\$ 52 Dibromofluoromethane (Surr)	113	6.470	6.476	-0.006	94	435083	10.0	9.91	
53 1,1,1-Trichloroethane	97	6.488	6.494	-0.006	66	18354	0.2000	0.2074	
54 Cyclohexane	56	6.592	6.598	-0.006	91	21980	0.2000	0.2147	
55 1,1-Dichloropropene	75	6.714	6.708	0.006	94	17042	0.2000	0.2015	
56 Carbon tetrachloride	117	6.714	6.714	0.000	88	15522	0.2000	0.1975	
57 Isobutyl alcohol	41	6.909	6.866	0.043	31	3103	10.0	8.22	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.933	6.933	0.000	80	76292	10.0	9.82	
59 Benzene	78	6.970	6.970	0.000	95	49092	0.2000	0.2021	
60 1,2-Dichloroethane	62	7.049	7.043	0.006	94	10681	0.2000	0.2097	
63 Tert-amyl methyl ether	73	7.183	7.177	0.006	98	25548	0.2000	0.1990	
* 64 Fluorobenzene (IS)	96	7.378	7.385	-0.007	99	2020747	10.0	10.0	
65 n-Heptane	43	7.409	7.409	0.000	91	14976	0.2000	0.1991	
67 n-Butanol	56		7.793				ND	ND	
68 Trichloroethene	95	7.890	7.878	0.012	96	12293	0.2000	0.1981	
69 Methylcyclohexane	83	8.195	8.195	0.000	93	21501	0.2000	0.2137	
70 1,2-Dichloropropane	63	8.207	8.208	-0.001	73	12539	0.2000	0.2144	
71 2-ethoxy-2-methyl butane	87	8.238	8.232	0.006	89	17071	0.2000	0.1938	
72 Methyl methacrylate	69	8.372	8.311	0.061	36	1991	0.2000	0.3943	
74 Dibromomethane	93	8.335	8.323	0.012	92	4381	0.2000	0.1997	M
73 1,4-Dioxane	88	8.232	8.329	-0.097	28	781	10.0	14.5	
76 Dichlorobromomethane	83	8.573	8.561	0.012	97	12743	0.2000	0.1970	
77 2-Nitropropane	41	8.841	8.835	0.006	97	7184	1.00	1.23	M
79 1-Bromo-2-chloroethane	63	8.982	8.963	0.019	94	10034	0.2000	0.1989	M
80 cis-1,3-Dichloropropene	75	9.158	9.134	0.024	96	15935	0.2000	0.1921	M
82 4-Methyl-2-pentanone (MIBK)	43	9.323	9.317	0.006	96	41612	2.00	1.76	
\$ 83 Toluene-d8 (Surr)	98	9.457	9.463	-0.006	94	1930506	10.0	9.91	
84 Toluene	92	9.542	9.543	-0.001	97	31315	0.2000	0.2050	
85 trans-1,3-Dichloropropene	75	9.841	9.817	0.024	95	10896	0.2000	0.1827	M
104 Ethyl methacrylate	69	9.920	9.890	0.030	88	7817	0.2000	0.1851	M
106 1,1,2-Trichloroethane	97	10.042	10.030	0.012	87	6284	0.2000	0.1917	
S 105 1,3-Dichloropropene, Total	100				0			0.3747	
107 Tetrachloroethene	166	10.122	10.116	0.006	97	13434	0.2000	0.1900	
108 1,3-Dichloropropane	76	10.213	10.195	0.018	91	10797	0.2000	0.1829	
109 2-Hexanone	43	10.286	10.250	0.036	97	17869	2.00	2.63	
111 Chlorodibromomethane	129	10.426	10.414	0.012	92	7621	0.2000	0.1878	
112 Ethylene Dibromide	107	10.542	10.530	0.012	95	5723	0.2000	0.1927	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	86	1439661	10.0	10.0	
114 1-Chlorohexane	91	10.993	10.987	0.006	98	18845	0.2000	0.2000	
115 Chlorobenzene	112	10.999	11.000	-0.001	97	32803	0.2000	0.2011	
116 1,1,1,2-Tetrachloroethane	131	11.085	11.091	-0.006	93	11254	0.2000	0.2095	
117 Ethylbenzene	91	11.097	11.091	0.006	98	58178	0.2000	0.1948	
119 m-Xylene & p-Xylene	106	11.219	11.213	0.006	100	43832	0.4000	0.3917	
S 118 Xylenes, Total	106				0			0.5919	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 o-Xylene	106	11.548	11.548	0.000	97	21407	0.2000	0.2002	
121 Styrene	104	11.579	11.561	0.018	95	32013	0.2000	0.1952	
122 Bromoform	173	11.731	11.719	0.012	93	3964	0.2000	0.1765	
123 Isopropylbenzene	105	11.859	11.853	0.006	95	50504	0.2000	0.1956	
\$ 126 4-Bromofluorobenzene (Surr)	95	11.999	11.999	0.000	91	704022	10.0	9.87	
127 1,1,2,2-Tetrachloroethane	83		12.103				ND	ND	
128 Bromobenzene	156	12.115	12.115	0.000	95	12357	0.2000	0.1992	
129 trans-1,4-Dichloro-2-butene	53	12.140	12.128	0.012	91	16272	2.00	1.74	
130 1,2,3-Trichloropropane	110	12.152	12.146	0.006	73	1794	0.2000	0.1958	
131 N-Propylbenzene	91	12.188	12.188	0.000	99	64338	0.2000	0.1939	
132 2-Chlorotoluene	126	12.268	12.262	0.006	96	13293	0.2000	0.2011	
133 1,3,5-Trimethylbenzene	105	12.328	12.323	0.005	94	45181	0.2000	0.1942	
134 4-Chlorotoluene	126	12.365	12.353	0.012	96	13334	0.2000	0.1969	
135 tert-Butylbenzene	134	12.566	12.566	0.000	93	10587	0.2000	0.2024	
136 Pentachloroethane	167	12.603	12.597	0.006	80	6976	0.2000	0.1833	
137 1,2,4-Trimethylbenzene	105	12.615	12.609	0.006	97	46308	0.2000	0.1944	
138 sec-Butylbenzene	105	12.737	12.731	0.006	94	54697	0.2000	0.1895	
139 1,3-Dichlorobenzene	146	12.841	12.829	0.012	97	23541	0.2000	0.1928	
140 4-Isopropyltoluene	119	12.847	12.841	0.006	97	46996	0.2000	0.1920	
* 141 1,4-Dichlorobenzene-d4	152	12.889	12.890	-0.001	95	765014	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.908	12.908	0.000	93	24433	0.2000	0.1882	
143 1,2,3-Trimethylbenzene	120	12.920	12.914	0.006	98	21394	0.2000	0.1975	
144 Benzyl chloride	126	12.993	12.981	0.012	98	2626	0.2000	0.1755	
145 p-Diethylbenzene	119	13.121	13.115	0.006	94	25911	0.2000	0.1841	
146 n-Butylbenzene	92	13.139	13.133	0.006	97	17458	0.2000	0.1582	
147 1,2-Dichlorobenzene	146	13.170	13.164	0.006	97	21085	0.2000	0.1999	
149 1,2-Dibromo-3-Chloropropane	155	13.725	13.713	0.012	77	447	0.2000	0.1963	
150 1,3,5-Trichlorobenzene	180	13.853	13.841	0.012	97	16288	0.2000	0.1849	
151 1,2,4-Trichlorobenzene	180	14.273	14.261	0.012	91	12635	0.2000	0.1915	
152 Hexachlorobutadiene	225	14.346	14.347	-0.001	94	5339	0.2000	0.1687	
153 Naphthalene	128	14.462	14.438	0.024	96	18225	0.2000	0.1723	
154 1,2,3-Trichlorobenzene	180	14.590	14.584	0.006	93	9871	0.2000	0.1718	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00163

Amount Added: 2.00

Units: uL

MSV_LL_GAS826_00264

Amount Added: 2.00

Units: uL

MSV_LL_#2_826_00174

Amount Added: 2.00

Units: uL

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X14.D

Injection Date: 31-Mar-2025 16:34:30

Instrument ID: 19094

Operator ID: ecr105096

Lims ID: IC std3 0.2

Worklist Smp#: 15

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

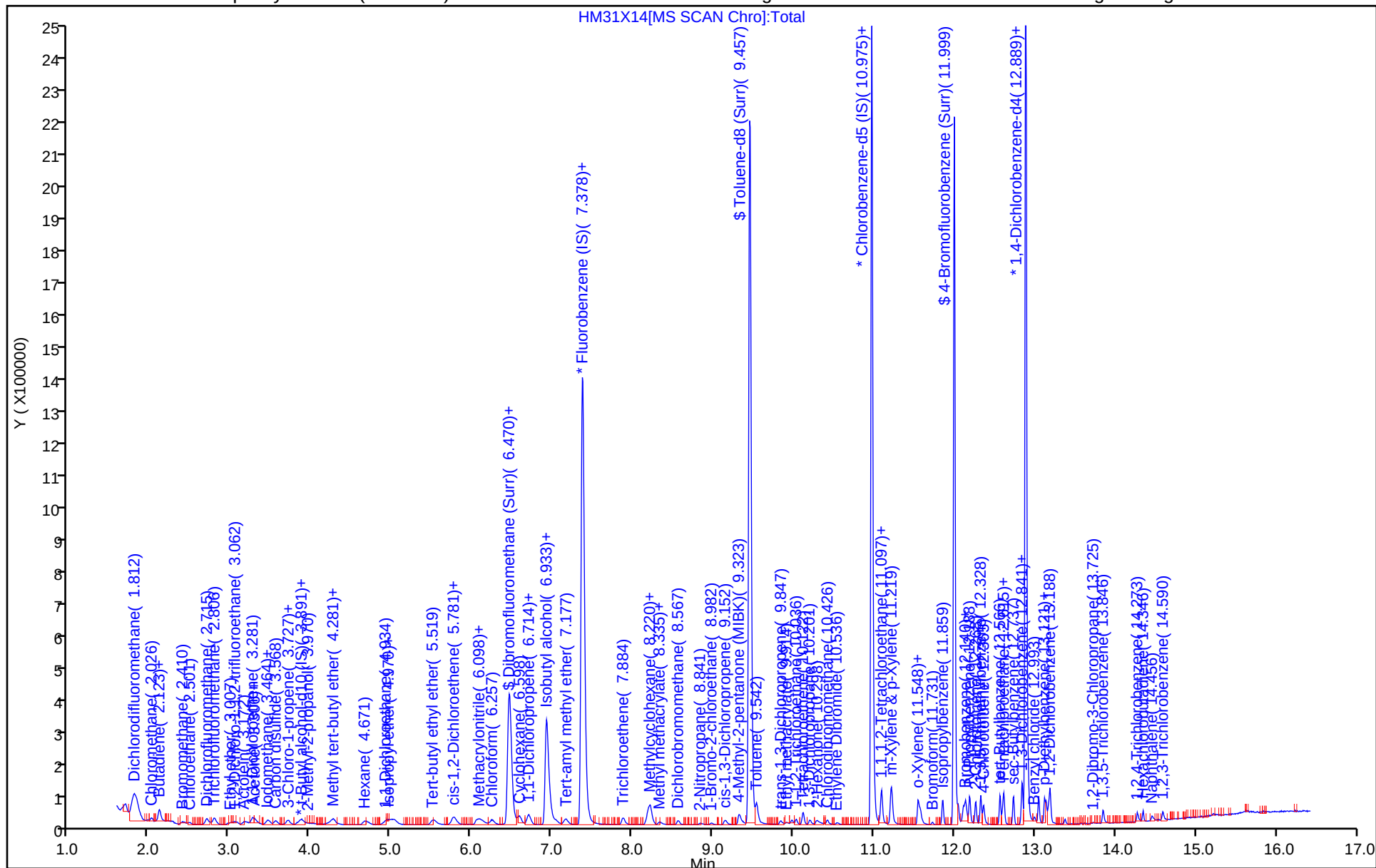
ALS Bottle#: 14

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

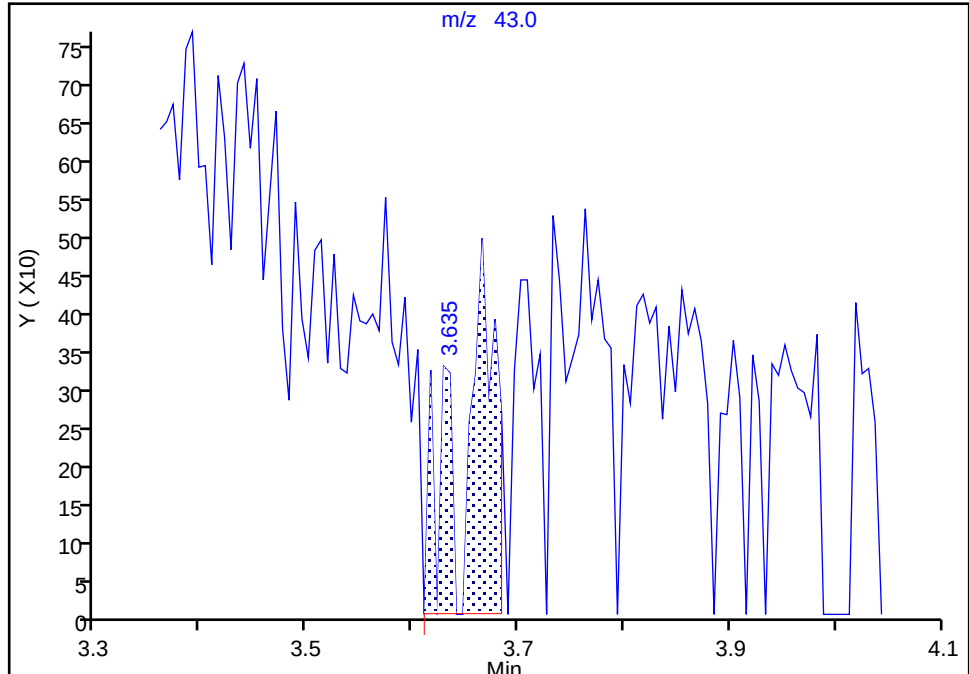
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Injection Date: 31-Mar-2025 16:34:30 Instrument ID: 19094
Lims ID: IC std3 0.2
Client ID:
Operator ID: ecr105096 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

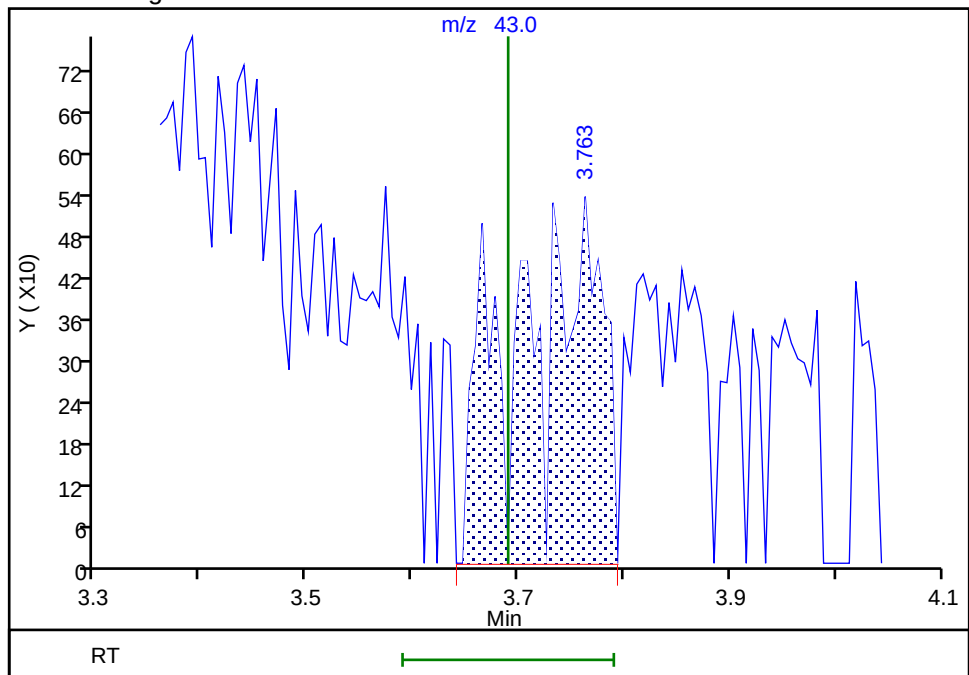
RT: 3.64
Area: 1090
Amount: 0.116639
Amount Units: ug/l

Processing Integration Results



RT: 3.76
Area: 2899
Amount: 0.670764
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:06:31 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

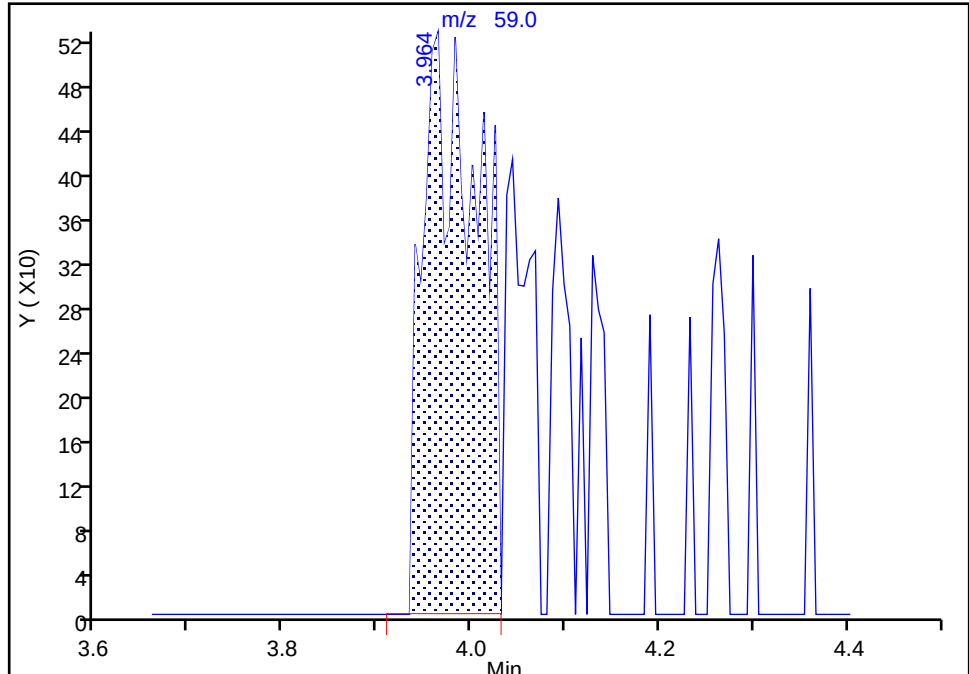
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Injection Date: 31-Mar-2025 16:34:30 Instrument ID: 19094
Lims ID: IC std3 0.2
Client ID:
Operator ID: ecr105096 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

29 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

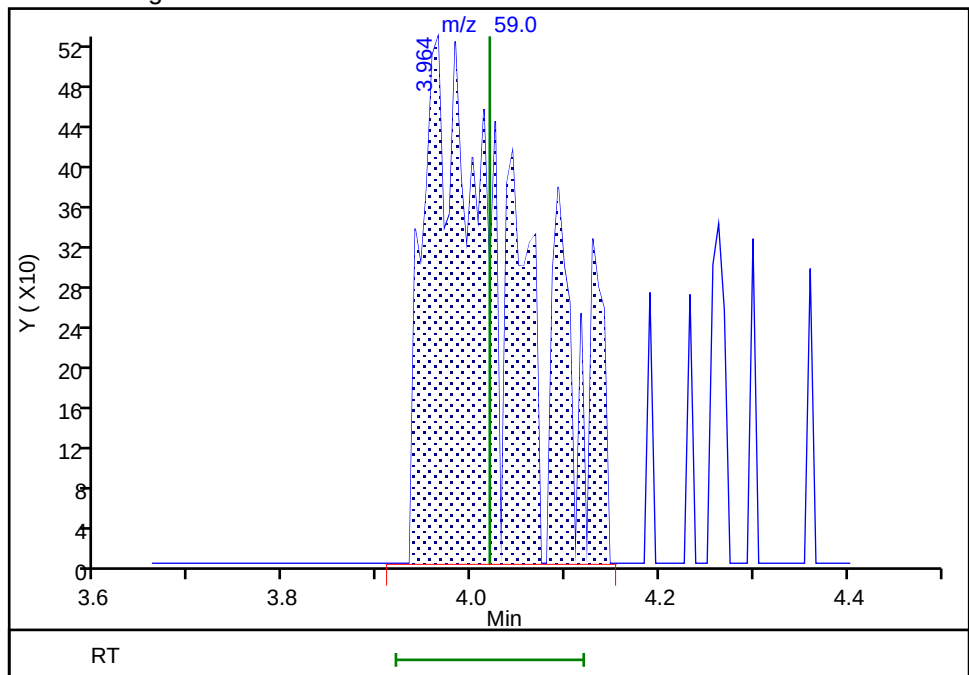
RT: 3.96
Area: 2155
Amount: 2.283836
Amount Units: ug/l

Processing Integration Results



RT: 3.96
Area: 3760
Amount: 3.342972
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:06:43 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

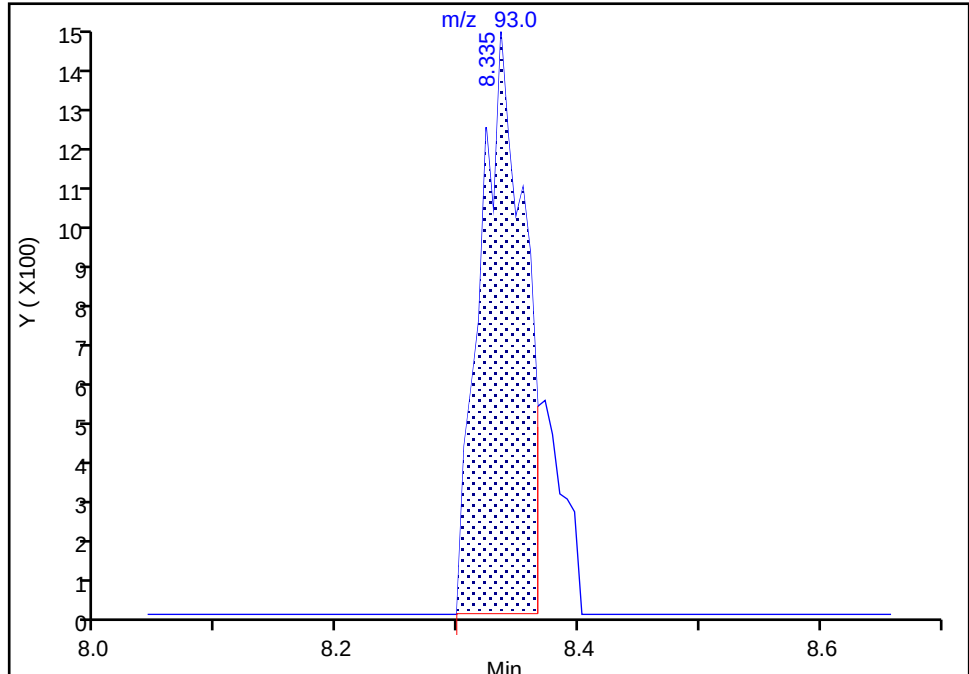
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Lims ID: IC std3 0.2
Client ID:
Operator ID: ecr105096 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 Dibromomethane, CAS: 74-95-3

Signal: 1

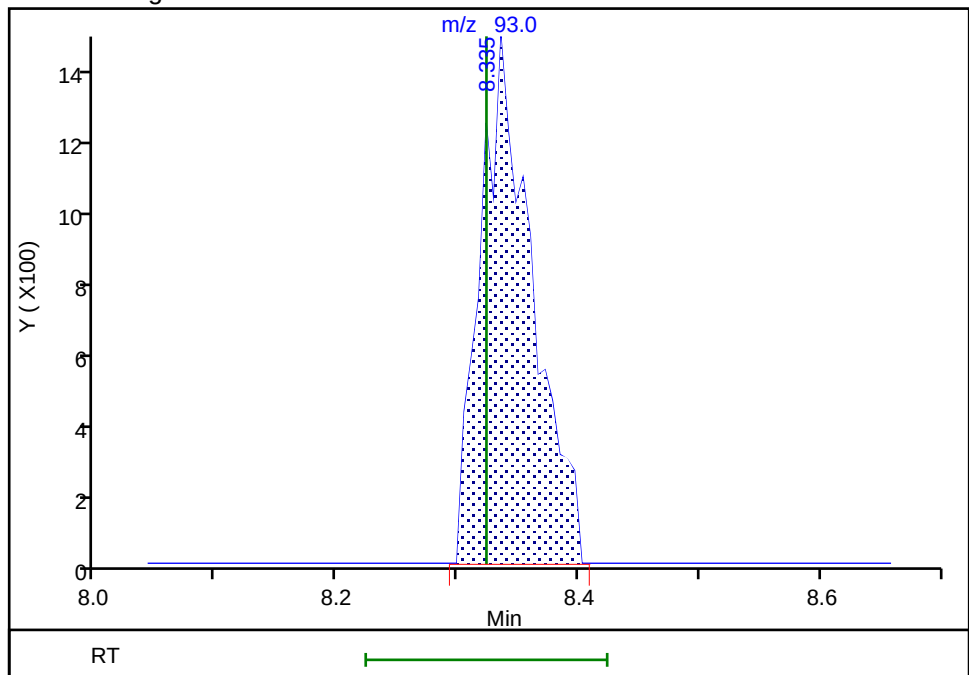
RT: 8.34
Area: 3708
Amount: 0.221826
Amount Units: ug/l

Processing Integration Results



RT: 8.34
Area: 4381
Amount: 0.199741
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:07:26 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

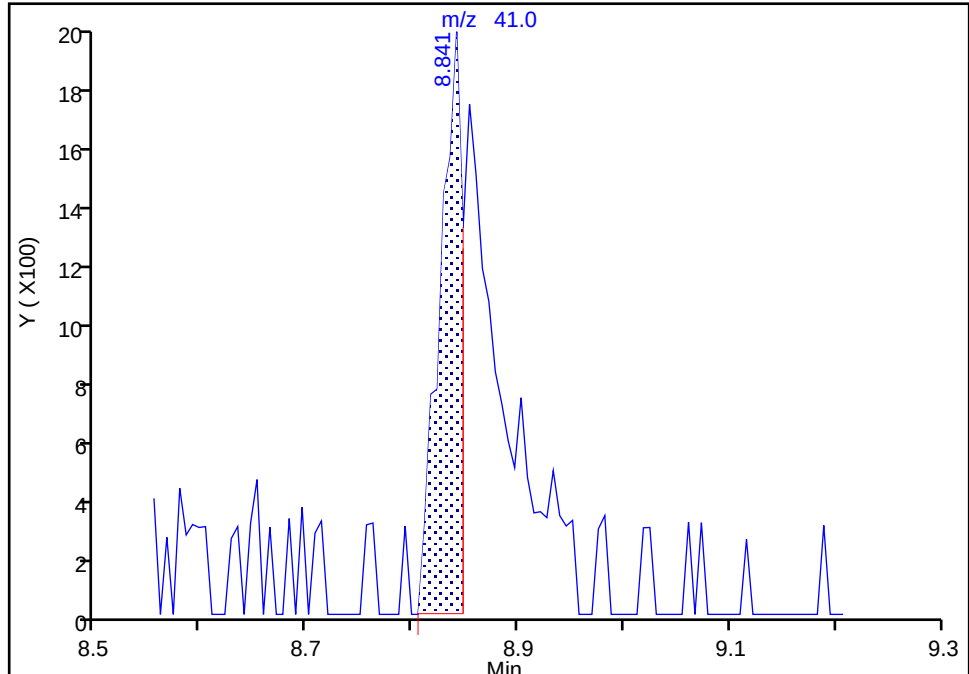
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Injection Date: 31-Mar-2025 16:34:30 Instrument ID: 19094
Lims ID: IC std3 0.2
Client ID:
Operator ID: ecr105096 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

77 2-Nitropropane, CAS: 79-46-9

Signal: 1

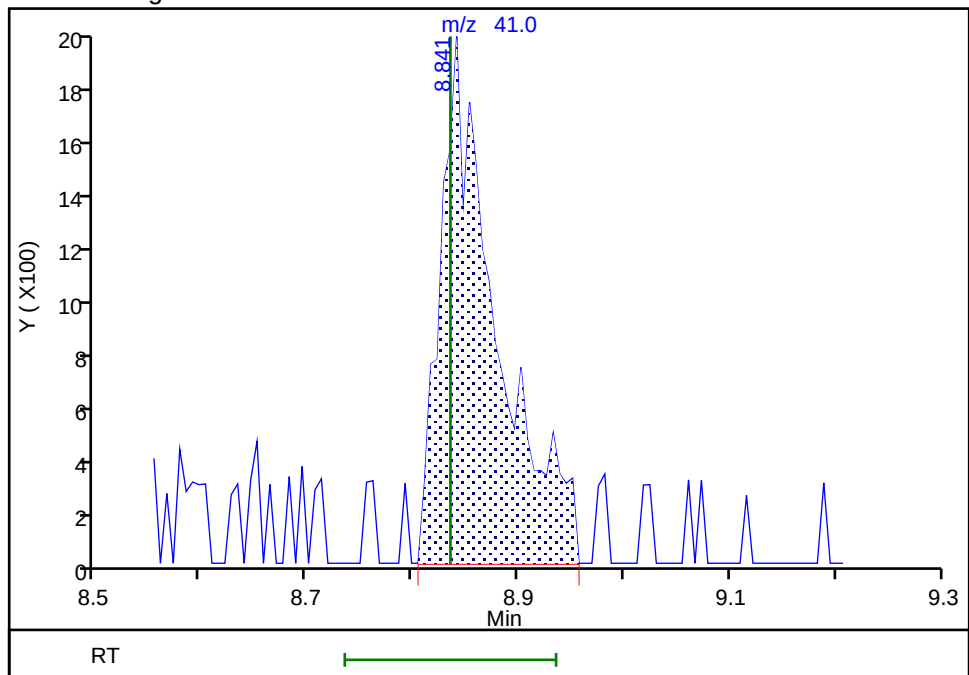
RT: 8.84
Area: 2928
Amount: 0.610855
Amount Units: ug/l

Processing Integration Results



RT: 8.84
Area: 7184
Amount: 1.233945
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:07:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

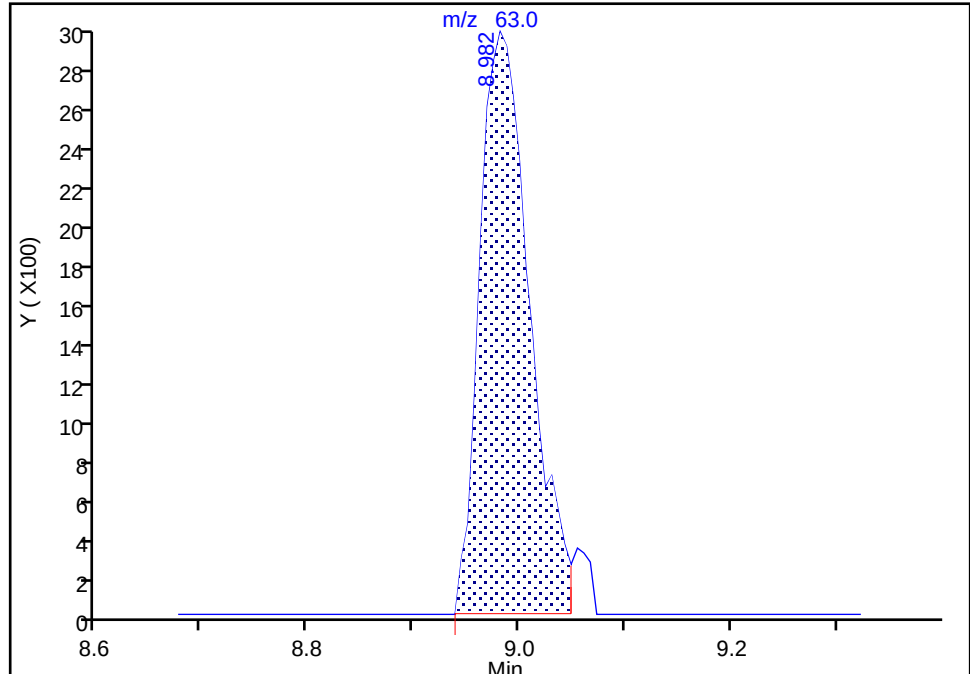
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Lims ID: IC std3 0.2
Client ID:
Operator ID: ecr105096 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

79 1-Bromo-2-chloroethane, CAS: 107-04-0

Signal: 1

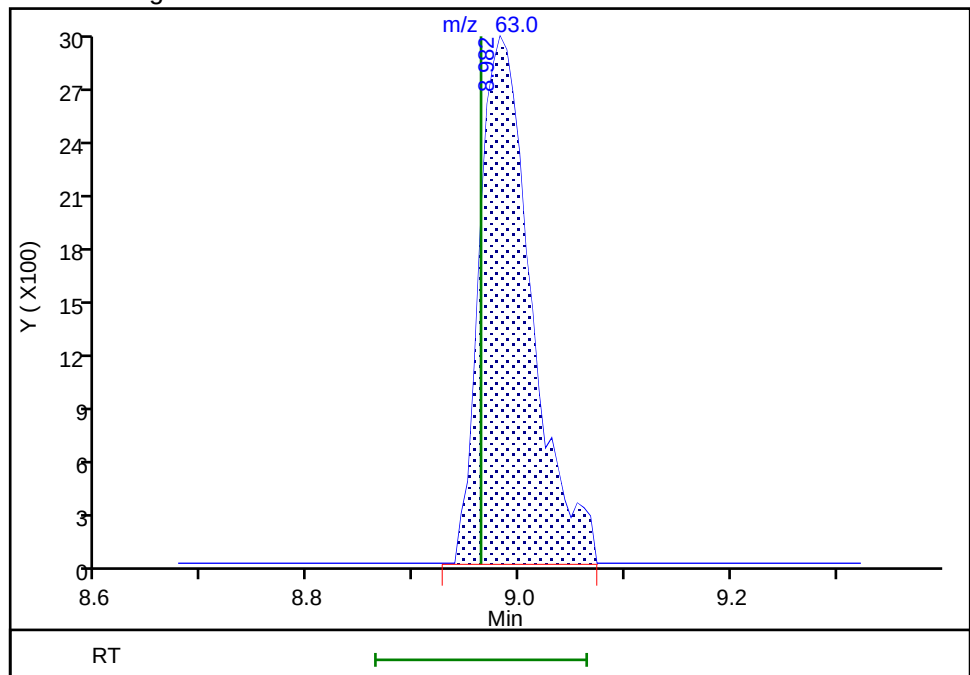
RT: 8.98
Area: 9701
Amount: 0.193135
Amount Units: ug/l

Processing Integration Results



RT: 8.98
Area: 10034
Amount: 0.198941
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:07:40 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

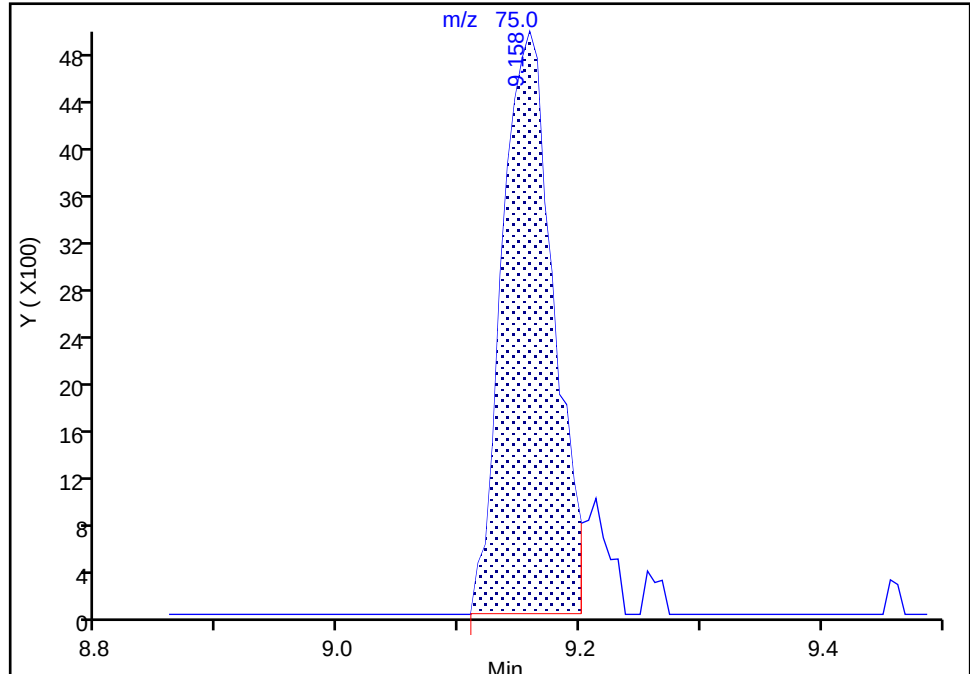
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Lims ID: IC std3 0.2
Client ID:
Operator ID: ecr105096 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

80 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

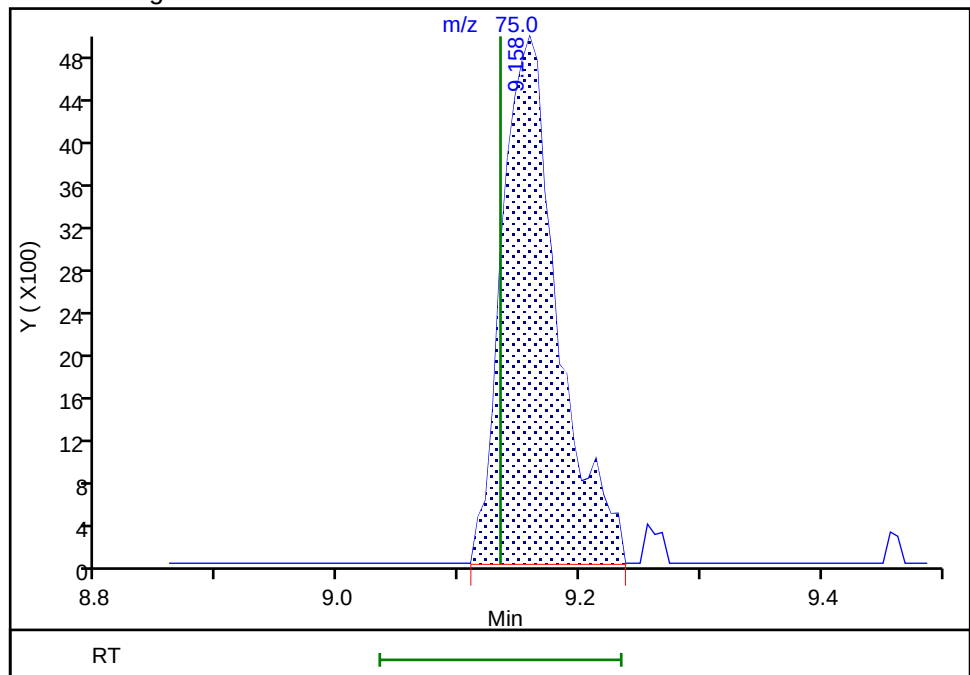
RT: 9.16
Area: 14695
Amount: 0.185485
Amount Units: ug/l

Processing Integration Results



RT: 9.16
Area: 15935
Amount: 0.192051
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:07:45 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

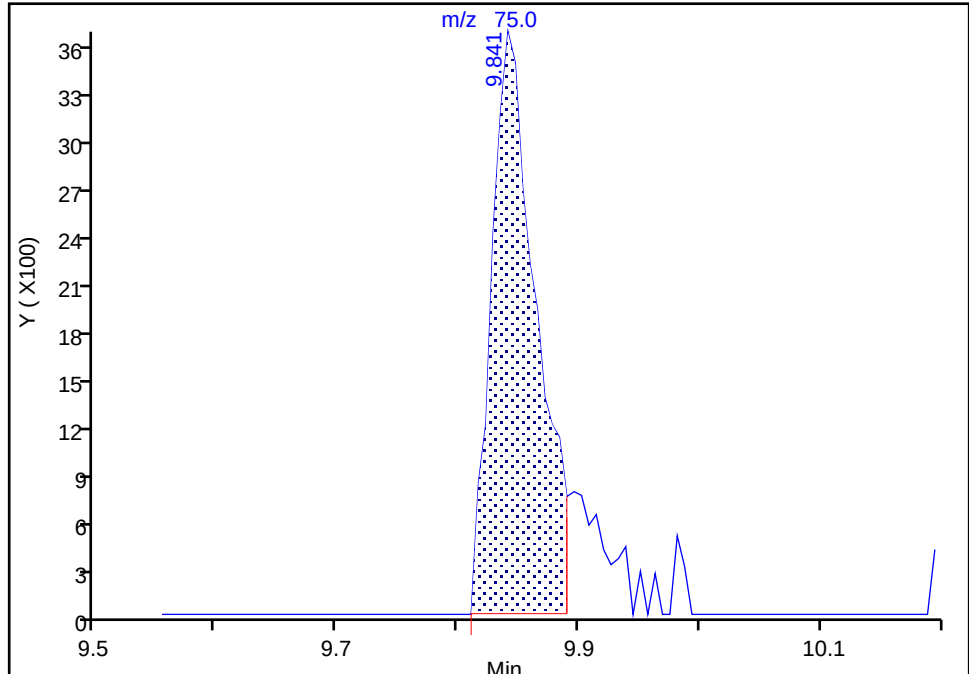
Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X14.D
Injection Date: 31-Mar-2025 16:34:30 Instrument ID: 19094
Lims ID: IC std3 0.2
Client ID:
Operator ID: ecr105096 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

85 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

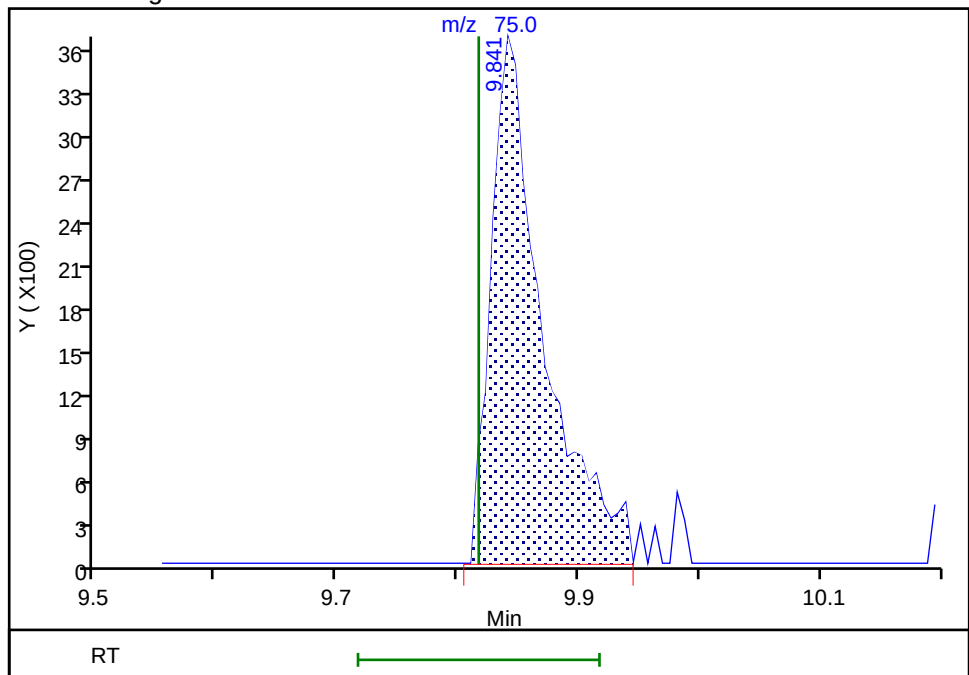
RT: 9.84
Area: 9377
Amount: 0.159732
Amount Units: ug/l

Processing Integration Results



RT: 9.84
Area: 10896
Amount: 0.182653
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:07:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

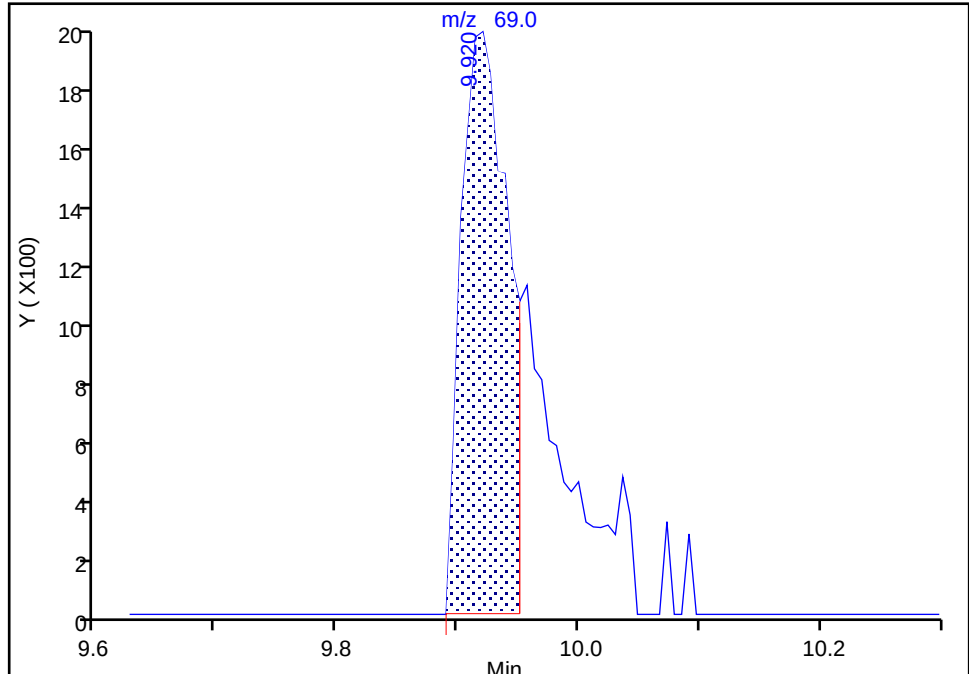
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Injection Date: 31-Mar-2025 16:34:30 Instrument ID: 19094
Lims ID: IC std3 0.2
Client ID:
Operator ID: ecr105096 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

104 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

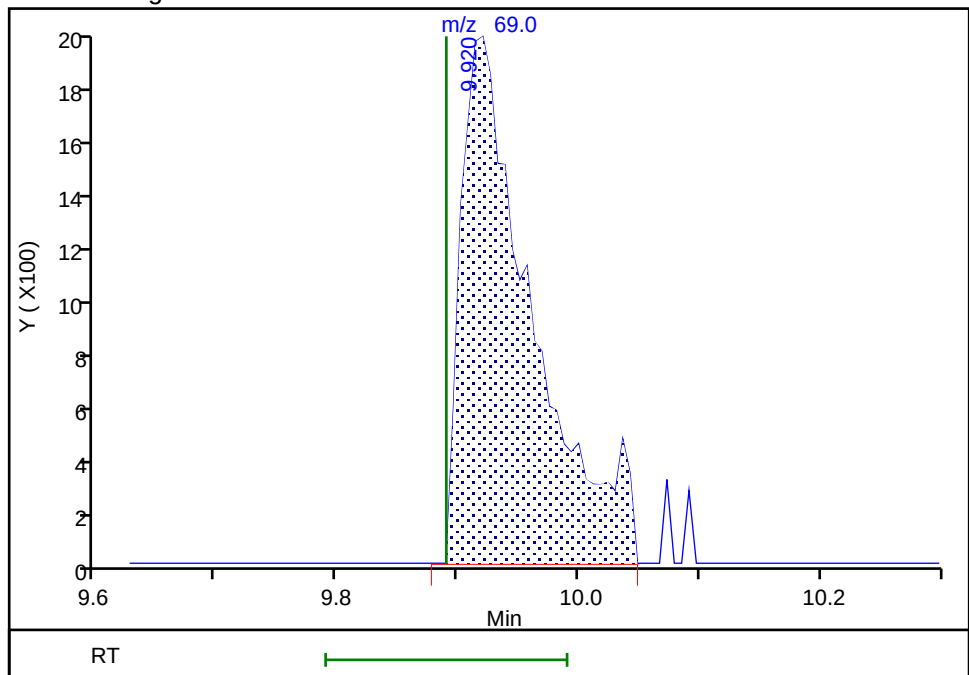
RT: 9.92
Area: 5162
Amount: 0.156650
Amount Units: ug/l

Processing Integration Results



RT: 9.92
Area: 7817
Amount: 0.185103
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:07:58 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X15.D
 Lims ID: IC std4 0.5
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 31-Mar-2025 16:54:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142485-016
 Misc. Info.: IC STD4 0.5
 Operator ID: ecr105096 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 12-Apr-2025 07:04:50 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1648

First Level Reviewer: N7YK

Date: 01-Apr-2025 16:11:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.843	1.843	0.000	99	36910	0.5000	0.5503	
5 Chloromethane	50	2.038	2.032	0.006	99	43310	0.5000	0.4569	
7 Butadiene	39	2.129	2.129	0.000	92	45061	0.5000	0.5253	
6 Vinyl chloride	62	2.142	2.142	0.000	98	42493	0.5000	0.5142	
9 Bromomethane	94	2.428	2.422	0.006	91	29377	0.5000	0.5217	
10 Chloroethane	64	2.507	2.501	0.006	100	24185	0.5000	0.5203	
11 Dichlorofluoromethane	67	2.721	2.721	0.000	97	65964	0.5000	0.4973	
12 Trichlorofluoromethane	101	2.824	2.812	0.012	49	50165	0.5000	0.5125	
14 Ethyl ether	59	2.995	3.001	-0.006	73	17447	0.5000	0.5175	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.087	3.080	0.007	93	38612	0.5000	0.5295	
16 Acrolein	56	3.178	3.160	0.018	98	111531	24.4	25.8	
17 1,1-Dichloroethene	96	3.294	3.288	0.006	98	25221	0.5000	0.5387	
19 Acetone	43	3.367	3.312	0.055	75	23710	5.00	5.19	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.318	3.324	-0.006	93	27678	0.5000	0.5353	
21 Iodomethane	142	3.477	3.471	0.006	98	49252	0.5000	0.5476	
22 Ethyl bromide	108	3.495	3.495	0.000	97	21688	0.5008	0.4991	
23 Carbon disulfide	76	3.574	3.574	0.000	99	74928	0.5000	0.4989	
24 Methyl acetate	43	3.721	3.690	0.031	22	2639	0.5000	0.6296	
26 3-Chloro-1-propene	41	3.721	3.721	0.000	91	50301	0.5000	0.5142	
27 Methylene Chloride	84	3.891	3.885	0.006	93	27565	0.5000	0.5600	
* 28 t-Butyl alcohol-d10 (IS)	65	3.922	3.910	0.012	93	62232	50.0	50.0	
29 2-Methyl-2-propanol	59	4.031	4.019	0.012	54	15367	10.0	12.1	
31 Acrylonitrile	53	4.324	4.221	0.104	1	1182	1.25	1.69	
32 Methyl tert-butyl ether	73	4.275	4.269	0.006	94	57929	0.5000	0.5321	
33 trans-1,2-Dichloroethene	96	4.288	4.281	0.007	98	28213	0.5000	0.5380	
34 Hexane	57	4.690	4.696	-0.006	93	40876	0.5000	0.5163	
36 1,1-Dichloroethane	63	4.928	4.928	0.000	96	55440	0.5000	0.5290	
37 Isopropyl ether	45	4.995	4.989	0.006	96	96920	0.5000	0.5358	
38 2-Chloro-1,3-butadiene	53	5.050	5.037	0.013	91	46842	0.5000	0.5091	
40 Tert-butyl ethyl ether	59	5.531	5.537	-0.006	99	87709	0.5000	0.5466	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.787	5.732	0.055	52	32069	5.00	3.71	
42 cis-1,2-Dichloroethene	96	5.769	5.769	0.000	83	32713	0.5000	0.5229	
43 2,2-Dichloropropane	77	5.787	5.787	0.000	71	47516	0.5000	0.5445	
44 Propionitrile	54	5.915	5.836	0.079	29	17124	10.0	8.36	M
47 Methacrylonitrile	67	6.055	6.031	0.024	92	48226	5.00	6.36	
48 Chlorobromomethane	128	6.110	6.098	0.012	95	12240	0.5000	0.5693	
49 Tetrahydrofuran	71	6.153	6.123	0.030	55	5397	2.50	2.52	
S 46 1,2-Dichloroethene, Total	100				0			1.06	
50 Chloroform	83	6.263	6.257	0.006	93	53382	0.5000	0.5463	
\$ 52 Dibromofluoromethane (Surr)	113	6.476	6.476	0.000	94	443393	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.488	6.494	-0.006	97	47209	0.5000	0.5336	
54 Cyclohexane	56	6.598	6.598	0.000	92	56222	0.5000	0.5493	
55 1,1-Dichloropropene	75	6.720	6.708	0.012	95	43771	0.5000	0.5178	
56 Carbon tetrachloride	117	6.714	6.714	0.000	86	39525	0.5000	0.5031	
57 Isobutyl alcohol	41	6.903	6.866	0.037	31	9339	25.0	21.9	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.939	6.933	0.006	81	77906	10.0	10.0	
59 Benzene	78	6.976	6.970	0.006	95	129223	0.5000	0.5322	
60 1,2-Dichloroethane	62	7.049	7.043	0.006	96	27093	0.5000	0.5321	
63 Tert-amyl methyl ether	73	7.177	7.177	0.000	98	67292	0.5000	0.5243	
* 64 Fluorobenzene (IS)	96	7.385	7.385	-0.001	99	2019903	10.0	10.0	
65 n-Heptane	43	7.409	7.409	0.000	86	34859	0.5000	0.4636	
67 n-Butanol	56	8.006	7.793	0.213	31	6930	43.8	39.2	M
68 Trichloroethene	95	7.884	7.878	0.006	98	31039	0.5000	0.5005	
69 Methylcyclohexane	83	8.189	8.195	-0.006	93	52911	0.5000	0.5260	
70 1,2-Dichloropropane	63	8.220	8.208	0.012	96	31620	0.5000	0.5409	
71 2-ethoxy-2-methyl butane	87	8.232	8.232	0.000	92	46511	0.5000	0.5281	
72 Methyl methacrylate	69	8.342	8.311	0.031	64	9159	0.5000	0.6509	
74 Dibromomethane	93	8.329	8.323	0.006	95	11565	0.5000	0.5275	
73 1,4-Dioxane	88	8.238	8.329	-0.091	28	2387	25.0	39.4	
76 Dichlorobromomethane	83	8.567	8.561	0.006	98	34291	0.5000	0.5303	
77 2-Nitropropane	41	8.848	8.835	0.013	97	14974	2.50	2.28	
79 1-Bromo-2-chloroethane	63	8.976	8.963	0.013	98	25518	0.5000	0.5061	
80 cis-1,3-Dichloropropene	75	9.152	9.134	0.018	96	40167	0.5000	0.4843	
82 4-Methyl-2-pentanone (MIBK)	43	9.323	9.317	0.006	97	125111	5.00	4.70	
\$ 83 Toluene-d8 (Surr)	98	9.463	9.463	0.000	93	1948431	10.0	9.95	
84 Toluene	92	9.543	9.543	0.000	98	79203	0.5000	0.5159	
85 trans-1,3-Dichloropropene	75	9.829	9.817	0.012	93	30411	0.5000	0.5073	
104 Ethyl methacrylate	69	9.902	9.890	0.012	89	21711	0.5000	0.5116	
106 1,1,2-Trichloroethane	97	10.030	10.030	0.000	89	17301	0.5000	0.5253	
S 105 1,3-Dichloropropene, Total	100				0			0.99	
107 Tetrachloroethene	166	10.122	10.116	0.006	97	34802	0.5000	0.4898	
108 1,3-Dichloropropane	76	10.201	10.195	0.006	92	30609	0.5000	0.5159	
109 2-Hexanone	43	10.268	10.250	0.018	96	67212	5.00	4.92	
111 Chlorodibromomethane	129	10.420	10.414	0.006	90	21635	0.5000	0.5306	
112 Ethylene Dibromide	107	10.536	10.530	0.006	98	15489	0.5000	0.5191	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	86	1446725	10.0	10.0	
114 1-Chlorohexane	91	10.994	10.987	0.007	97	43721	0.5000	0.4617	
115 Chlorobenzene	112	11.006	11.000	0.006	95	85184	0.5000	0.5198	
116 1,1,1,2-Tetrachloroethane	131	11.091	11.091	0.000	95	28384	0.5000	0.5258	
117 Ethylbenzene	91	11.097	11.091	0.006	99	154225	0.5000	0.5138	
119 m-Xylene & p-Xylene	106	11.219	11.213	0.006	100	117872	1.00	1.05	
S 118 Xylenes, Total	106				0			1.59	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 o-Xylene	106	11.548	11.548	0.000	97	58043	0.5000	0.5401	
121 Styrene	104	11.567	11.561	0.006	94	86179	0.5000	0.5229	
122 Bromoform	173	11.725	11.719	0.006	96	12140	0.5000	0.5380	
123 Isopropylbenzene	105	11.853	11.853	0.000	96	134290	0.5000	0.5176	
\$ 126 4-Bromofluorobenzene (Surr)	95	11.999	11.999	0.000	90	722114	10.0	10.1	
127 1,1,2,2-Tetrachloroethane	83	12.103	12.103	0.000	92	20554	0.5000	0.5432	
128 Bromobenzene	156	12.115	12.115	0.000	94	33220	0.5000	0.5326	
129 trans-1,4-Dichloro-2-butene	53	12.134	12.128	0.006	94	48024	5.00	4.55	
130 1,2,3-Trichloropropane	110	12.152	12.146	0.006	75	5101	0.5000	0.5539	
131 N-Propylbenzene	91	12.188	12.188	0.000	99	167663	0.5000	0.5026	
132 2-Chlorotoluene	126	12.262	12.262	0.000	96	34351	0.5000	0.5168	
133 1,3,5-Trimethylbenzene	105	12.329	12.323	0.006	94	124116	0.5000	0.5307	
134 4-Chlorotoluene	126	12.359	12.353	0.006	98	33499	0.5000	0.4921	
135 tert-Butylbenzene	134	12.566	12.566	0.000	93	27099	0.5000	0.5154	
136 Pentachloroethane	167	12.597	12.597	0.000	87	18622	0.5000	0.4868	
137 1,2,4-Trimethylbenzene	105	12.615	12.609	0.006	97	122882	0.5000	0.5131	
138 sec-Butylbenzene	105	12.731	12.731	0.000	94	146710	0.5000	0.5055	
139 1,3-Dichlorobenzene	146	12.835	12.829	0.006	98	63109	0.5000	0.5141	
140 4-Isopropyltoluene	119	12.847	12.841	0.006	97	125533	0.5000	0.5100	
* 141 1,4-Dichlorobenzene-d4	152	12.890	12.890	0.000	95	769122	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.908	12.908	0.000	96	67441	0.5000	0.5167	
143 1,2,3-Trimethylbenzene	120	12.920	12.914	0.006	99	55278	0.5000	0.5076	
144 Benzyl chloride	126	12.993	12.981	0.012	99	6851	0.5000	0.4555	
145 p-Diethylbenzene	119	13.121	13.115	0.006	95	70974	0.5000	0.5017	
146 n-Butylbenzene	92	13.139	13.133	0.006	98	53310	0.5000	0.4805	
147 1,2-Dichlorobenzene	146	13.170	13.164	0.006	98	58090	0.5000	0.5477	
149 1,2-Dibromo-3-Chloropropane	155	13.719	13.713	0.006	81	1969	0.5000	0.5049	
150 1,3,5-Trichlorobenzene	180	13.847	13.841	0.006	97	43496	0.5000	0.4911	
151 1,2,4-Trichlorobenzene	180	14.267	14.261	0.006	93	34338	0.5000	0.5176	
152 Hexachlorobutadiene	225	14.347	14.347	0.000	95	15325	0.5000	0.4817	
153 Naphthalene	128	14.450	14.438	0.012	96	50738	0.5000	0.4771	
154 1,2,3-Trichlorobenzene	180	14.584	14.584	0.000	95	28805	0.5000	0.4986	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00163

Amount Added: 2.00

Units: uL

MSV_LL_GAS826_00264

Amount Added: 2.00

Units: uL

MSV_LL_#2_826_00174

Amount Added: 2.00

Units: uL

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 12-Apr-2025 07:04:51

Chrom Revision: 2.3 08-Apr-2025 13:07:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X15.D

Injection Date: 31-Mar-2025 16:54:30

Instrument ID: 19094

Operator ID: ecr105096

Lims ID: IC std4 0.5

Worklist Smp#: 16

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

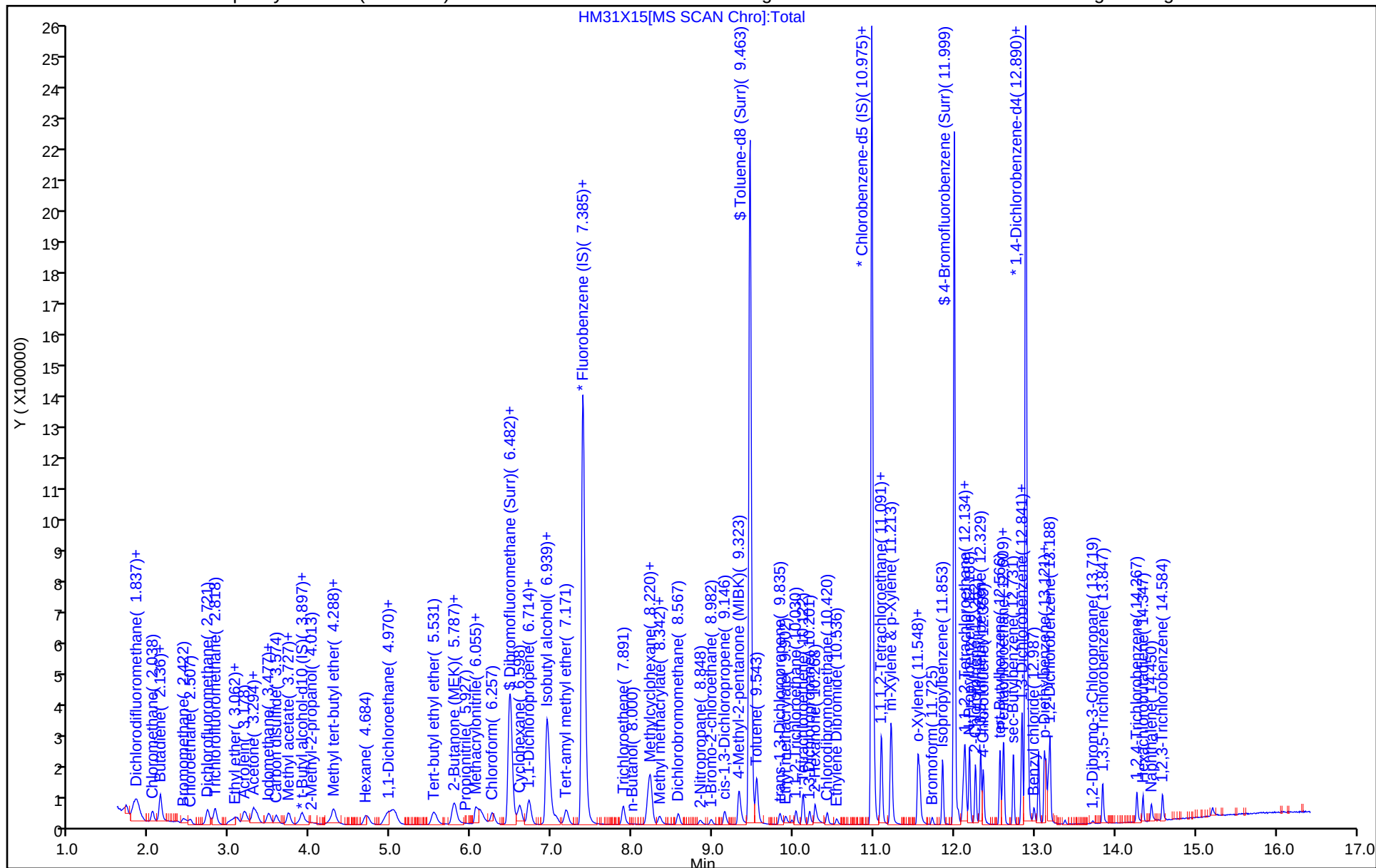
ALS Bottle#: 15

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

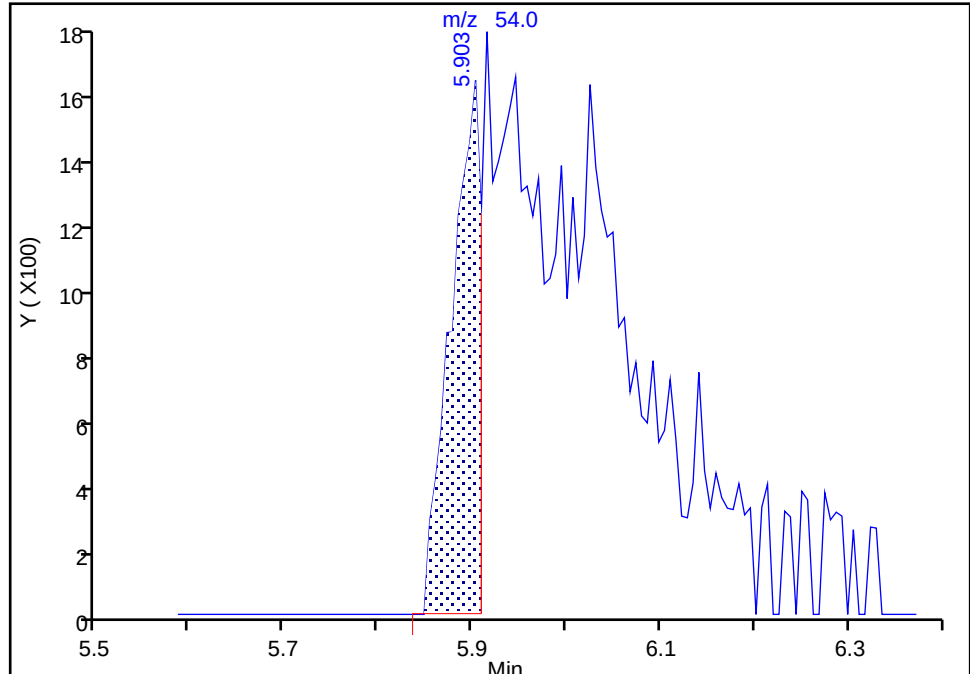
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Injection Date: 31-Mar-2025 16:54:30 Instrument ID: 19094
Lims ID: IC std4 0.5
Client ID:
Operator ID: ecr105096 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

44 Propionitrile, CAS: 107-12-0

Signal: 1

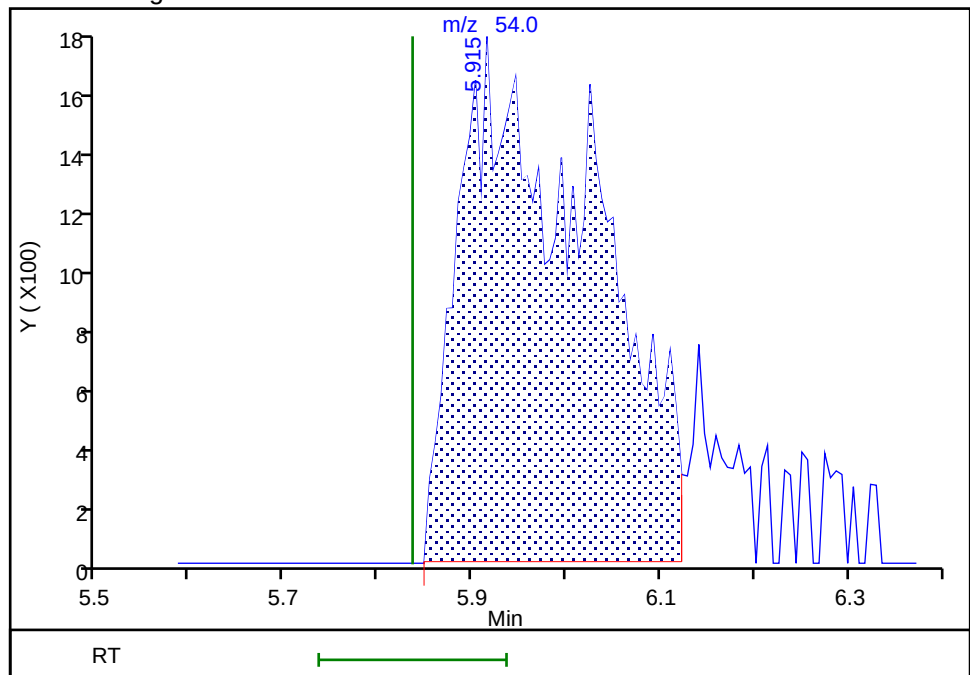
RT: 5.90
Area: 3565
Amount: 2.433242
Amount Units: ug/l

Processing Integration Results



RT: 5.92
Area: 17124
Amount: 8.355845
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 11-Apr-2025 09:46:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Environment Testing, LLC

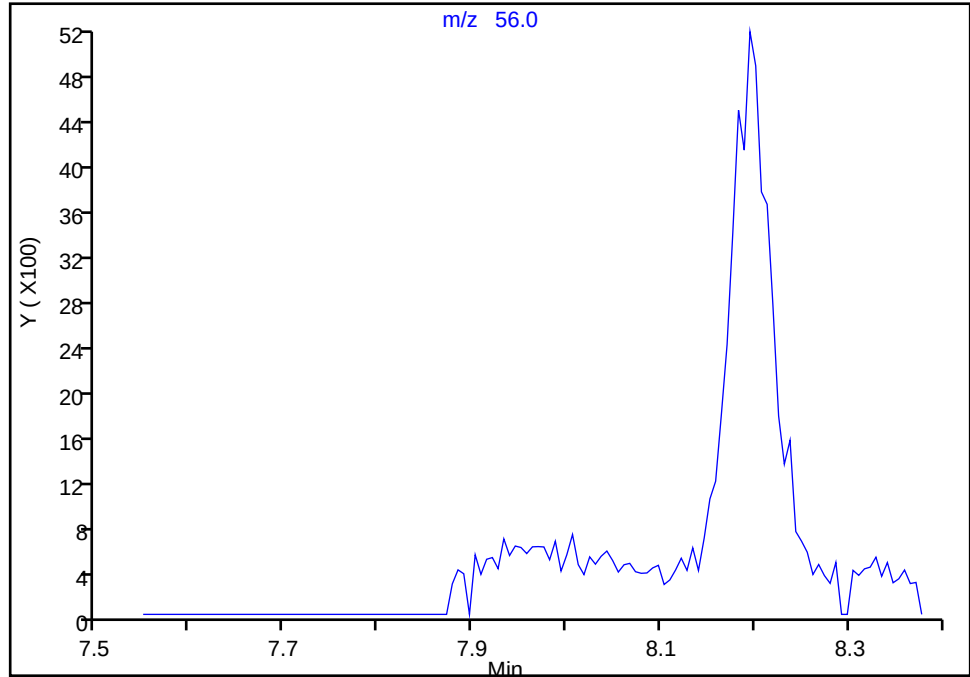
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Injection Date: 31-Mar-2025 16:54:30 Instrument ID: 19094
Lims ID: IC std4 0.5
Client ID:
Operator ID: ecr105096 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

67 n-Butanol, CAS: 71-36-3

Signal: 1

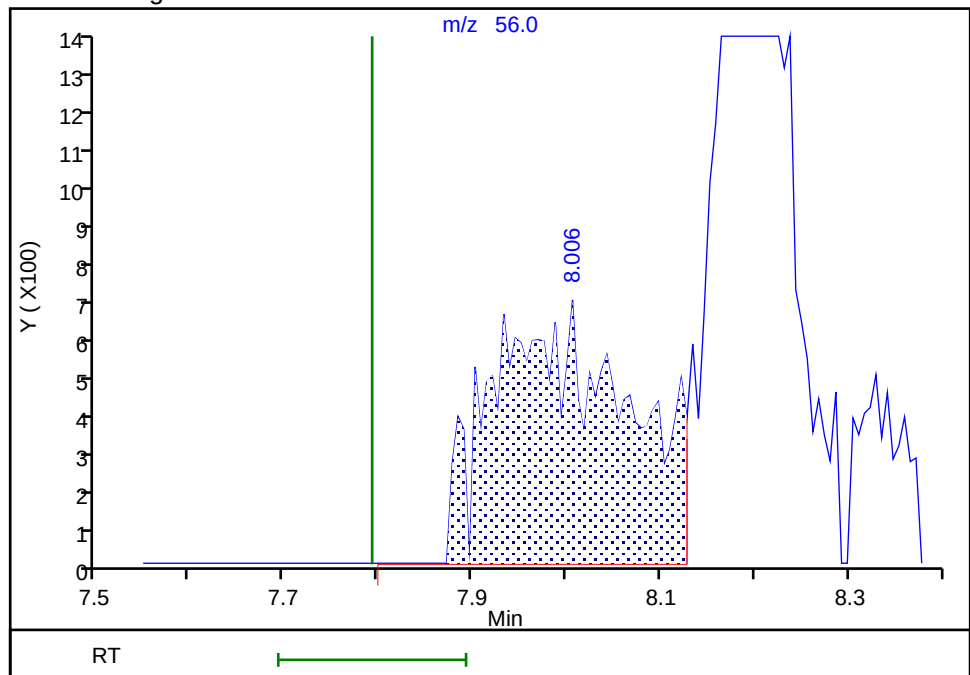
Not Detected
Expected RT: 7.79

Processing Integration Results



RT: 8.01
Area: 6930
Amount: 39.235226
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 10-Apr-2025 10:34:52 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X16.D
 Lims ID: IC std5 1
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 31-Mar-2025 17:16:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142485-017
 Misc. Info.: IC STD5 1
 Operator ID: ecr105096 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 12-Apr-2025 07:05:05 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1648

First Level Reviewer: N7YK

Date: 01-Apr-2025 16:15:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.843	1.843	0.000	99	72799	1.00	1.09	
5 Chloromethane	50	2.026	2.032	-0.006	98	90109	1.00	0.9555	
7 Butadiene	39	2.123	2.129	-0.006	94	85474	1.00	1.00	
6 Vinyl chloride	62	2.135	2.142	-0.007	98	82274	1.00	1.00	
9 Bromomethane	94	2.410	2.422	-0.012	90	56620	1.00	1.01	M
10 Chloroethane	64	2.495	2.501	-0.006	99	48775	1.00	1.05	
11 Dichlorofluoromethane	67	2.708	2.721	-0.013	97	126158	1.00	0.9559	
12 Trichlorofluoromethane	101	2.800	2.812	-0.012	56	98214	1.00	1.01	
14 Ethyl ether	59	3.001	3.001	0.000	92	36308	1.00	1.08	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.068	3.080	-0.012	93	73739	1.00	1.02	
16 Acrolein	56	3.160	3.160	0.000	99	217891	48.8	50.1	
17 1,1-Dichloroethene	96	3.282	3.288	-0.006	98	45970	1.00	0.9869	
19 Acetone	43	3.336	3.312	0.024	56	47006	10.0	10.2	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.324	3.324	0.000	86	48672	1.00	0.9461	
21 Iodomethane	142	3.458	3.471	-0.013	98	92574	1.00	1.03	
22 Ethyl bromide	108	3.483	3.495	-0.012	98	43524	1.00	1.01	
23 Carbon disulfide	76	3.562	3.574	-0.012	99	137547	1.00	0.9205	
24 Methyl acetate	43	3.733	3.690	0.043	45	10553	1.00	1.14	M
26 3-Chloro-1-propene	41	3.714	3.721	-0.007	93	92791	1.00	0.9535	
27 Methylene Chloride	84	3.885	3.885	0.000	94	49931	1.00	1.02	
* 28 t-Butyl alcohol-d10 (IS)	65	3.916	3.910	0.006	70	62685	50.0	50.0	
29 2-Methyl-2-propanol	59	4.031	4.019	0.012	83	27896	20.0	21.8	
31 Acrylonitrile	53	4.263	4.221	0.043	21	12400	2.50	3.06	M
32 Methyl tert-butyl ether	73	4.245	4.269	-0.024	96	111127	1.00	1.03	
33 trans-1,2-Dichloroethene	96	4.275	4.281	-0.006	98	53002	1.00	1.02	
34 Hexane	57	4.678	4.696	-0.018	93	70794	1.00	0.8988	
36 1,1-Dichloroethane	63	4.928	4.928	0.000	96	103058	1.00	0.9884	
37 Isopropyl ether	45	4.989	4.989	0.000	98	184660	1.00	1.03	
38 2-Chloro-1,3-butadiene	53	5.043	5.037	0.006	91	84992	1.00	0.9284	
40 Tert-butyl ethyl ether	59	5.519	5.537	-0.018	98	160821	1.00	1.01	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.763	5.732	0.031	62	77831	10.0	8.95	
42 cis-1,2-Dichloroethene	96	5.775	5.769	0.006	83	61691	1.00	0.99	
43 2,2-Dichloropropane	77	5.787	5.787	0.000	77	86126	1.00	0.99	
44 Propionitrile	54	5.891	5.836	0.055	98	36402	20.0	17.6	M
47 Methacrylonitrile	67	6.043	6.031	0.012	92	89360	10.0	9.57	
48 Chlorobromomethane	128	6.104	6.098	0.006	96	23464	1.00	1.10	
49 Tetrahydrofuran	71	6.135	6.123	0.012	86	12170	5.00	4.70	
S 46 1,2-Dichloroethene, Total	100				0			2.01	
50 Chloroform	83	6.257	6.257	0.000	93	98398	1.00	1.01	
\$ 52 Dibromofluoromethane (Surr)	113	6.470	6.476	-0.006	94	443941	10.0	10.2	
53 1,1,1-Trichloroethane	97	6.488	6.494	-0.006	98	85774	1.00	0.9745	
54 Cyclohexane	56	6.598	6.598	0.000	91	98404	1.00	0.9664	
55 1,1-Dichloropropene	75	6.708	6.708	0.000	96	80823	1.00	0.9610	
56 Carbon tetrachloride	117	6.708	6.714	-0.006	87	74493	1.00	0.9530	
57 Isobutyl alcohol	41	6.878	6.866	0.012	91	22216	50.0	51.8	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.933	6.933	0.000	81	77051	10.0	9.97	
59 Benzene	78	6.970	6.970	0.000	96	240158	1.00	0.99	
60 1,2-Dichloroethane	62	7.043	7.043	0.000	97	51635	1.00	1.02	
63 Tert-amyl methyl ether	73	7.171	7.177	-0.006	98	129644	1.00	1.02	
* 64 Fluorobenzene (IS)	96	7.384	7.385	-0.001	98	2009620	10.0	10.0	
65 n-Heptane	43	7.409	7.409	0.000	94	60070	1.00	0.8029	
67 n-Butanol	56	7.915	7.793	0.122	22	20079	87.5	80.1	M
68 Trichloroethene	95	7.878	7.878	0.000	99	59260	1.00	0.9605	
69 Methylcyclohexane	83	8.189	8.195	-0.006	93	94307	1.00	0.9423	
70 1,2-Dichloropropane	63	8.214	8.208	0.006	97	60147	1.00	1.03	
71 2-ethoxy-2-methyl butane	87	8.226	8.232	-0.006	93	88874	1.00	1.01	
72 Methyl methacrylate	69	8.329	8.311	0.018	78	16217	1.00	0.9085	
74 Dibromomethane	93	8.329	8.323	0.006	92	22986	1.00	1.05	
73 1,4-Dioxane	88	8.323	8.329	-0.006	28	2194	50.0	35.9	M
76 Dichlorobromomethane	83	8.567	8.561	0.006	98	66360	1.00	1.03	
77 2-Nitropropane	41	8.835	8.835	0.000	99	27313	5.00	4.13	
79 1-Bromo-2-chloroethane	63	8.969	8.963	0.006	98	51555	1.00	1.03	
80 cis-1,3-Dichloropropene	75	9.140	9.134	0.006	95	81920	1.00	0.99	
82 4-Methyl-2-pentanone (MIBK)	43	9.323	9.317	0.006	97	250793	10.0	9.35	
\$ 83 Toluene-d8 (Surr)	98	9.463	9.463	0.000	93	1949110	10.0	10.1	
84 Toluene	92	9.543	9.543	-0.001	98	147969	1.00	0.9743	
85 trans-1,3-Dichloropropene	75	9.829	9.817	0.012	94	59835	1.00	1.01	
104 Ethyl methacrylate	69	9.896	9.890	0.006	91	41731	1.00	0.99	
106 1,1,2-Trichloroethane	97	10.030	10.030	0.000	91	32744	1.00	1.01	
S 105 1,3-Dichloropropene, Total	100				0			2.00	
107 Tetrachloroethene	166	10.122	10.116	0.006	98	66124	1.00	0.9407	
108 1,3-Dichloropropane	76	10.201	10.195	0.006	91	59396	1.00	1.01	
109 2-Hexanone	43	10.262	10.250	0.012	98	154685	10.0	9.14	
111 Chlorodibromomethane	129	10.420	10.414	0.006	90	41259	1.00	1.02	
112 Ethylene Dibromide	107	10.536	10.530	0.006	100	29943	1.00	1.01	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	86	1431171	10.0	10.0	
114 1-Chlorohexane	91	10.993	10.987	0.006	99	79790	1.00	0.8517	
115 Chlorobenzene	112	11.006	11.000	0.006	94	157864	1.00	0.9737	
116 1,1,1,2-Tetrachloroethane	131	11.091	11.091	0.000	94	54915	1.00	1.03	
117 Ethylbenzene	91	11.097	11.091	0.006	99	291925	1.00	0.9832	
119 m-Xylene & p-Xylene	106	11.213	11.213	0.000	100	221657	2.00	1.99	
S 118 Xylenes, Total	106				0			3.00	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 o-Xylene	106	11.548	11.548	0.000	97	107032	1.00	1.01	
121 Styrene	104	11.567	11.561	0.005	95	166528	1.00	1.02	
122 Bromoform	173	11.725	11.719	0.006	96	22818	1.00	1.02	
123 Isopropylbenzene	105	11.853	11.853	0.000	96	248518	1.00	0.9683	
\$ 126 4-Bromofluorobenzene (Surr)	95	11.999	11.999	0.000	91	707488	10.0	9.98	
127 1,1,2,2-Tetrachloroethane	83	12.103	12.103	0.000	93	40032	1.00	1.07	
128 Bromobenzene	156	12.115	12.115	0.000	97	62336	1.00	1.01	
129 trans-1,4-Dichloro-2-butene	53	12.127	12.128	-0.001	93	90277	10.0	8.48	
130 1,2,3-Trichloropropane	110	12.152	12.146	0.006	79	9786	1.00	1.07	
131 N-Propylbenzene	91	12.188	12.188	0.000	99	316726	1.00	0.9563	
132 2-Chlorotoluene	126	12.261	12.262	-0.001	97	66573	1.00	1.01	
133 1,3,5-Trimethylbenzene	105	12.329	12.323	0.006	94	229697	1.00	0.9890	
134 4-Chlorotoluene	126	12.359	12.353	0.006	97	67700	1.00	1.00	
135 tert-Butylbenzene	134	12.566	12.566	0.000	93	52042	1.00	1.00	
136 Pentachloroethane	167	12.597	12.597	0.000	86	39464	1.00	1.04	
137 1,2,4-Trimethylbenzene	105	12.615	12.609	0.006	97	231770	1.00	0.9746	
138 sec-Butylbenzene	105	12.731	12.731	0.000	94	274663	1.00	0.9531	
139 1,3-Dichlorobenzene	146	12.835	12.829	0.006	98	119536	1.00	0.9808	
140 4-Isopropyltoluene	119	12.847	12.841	0.006	97	238594	1.00	0.9763	
* 141 1,4-Dichlorobenzene-d4	152	12.889	12.890	-0.001	95	763700	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.908	12.908	0.000	95	125003	1.00	0.9645	
143 1,2,3-Trimethylbenzene	120	12.914	12.914	0.000	97	101660	1.00	0.9402	
144 Benzyl chloride	126	12.987	12.981	0.006	99	14772	1.00	0.9891	
145 p-Diethylbenzene	119	13.121	13.115	0.006	95	139617	1.00	0.99	
146 n-Butylbenzene	92	13.139	13.133	0.006	97	104384	1.00	0.9476	
147 1,2-Dichlorobenzene	146	13.170	13.164	0.006	98	107438	1.00	1.02	
149 1,2-Dibromo-3-Chloropropane	155	13.719	13.713	0.006	85	4678	1.00	1.06	
150 1,3,5-Trichlorobenzene	180	13.840	13.841	-0.001	98	87602	1.00	1.00	
151 1,2,4-Trichlorobenzene	180	14.267	14.261	0.006	94	66023	1.00	1.00	
152 Hexachlorobutadiene	225	14.346	14.347	-0.001	96	27410	1.00	0.8677	
153 Naphthalene	128	14.444	14.438	0.006	97	106113	1.00	1.00	
154 1,2,3-Trichlorobenzene	180	14.584	14.584	0.000	96	56924	1.00	0.99	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00163

Amount Added: 2.00

Units: uL

MSV_LL_GAS826_00264

Amount Added: 2.00

Units: uL

MSV_LL_#2_826_00174

Amount Added: 2.00

Units: uL

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 12-Apr-2025 07:05:06

Chrom Revision: 2.3 08-Apr-2025 13:07:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X16.D

Injection Date: 31-Mar-2025 17:16:30

Instrument ID: 19094

Operator ID: ecr105096

Lims ID: IC std5 1

Worklist Smp#: 17

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

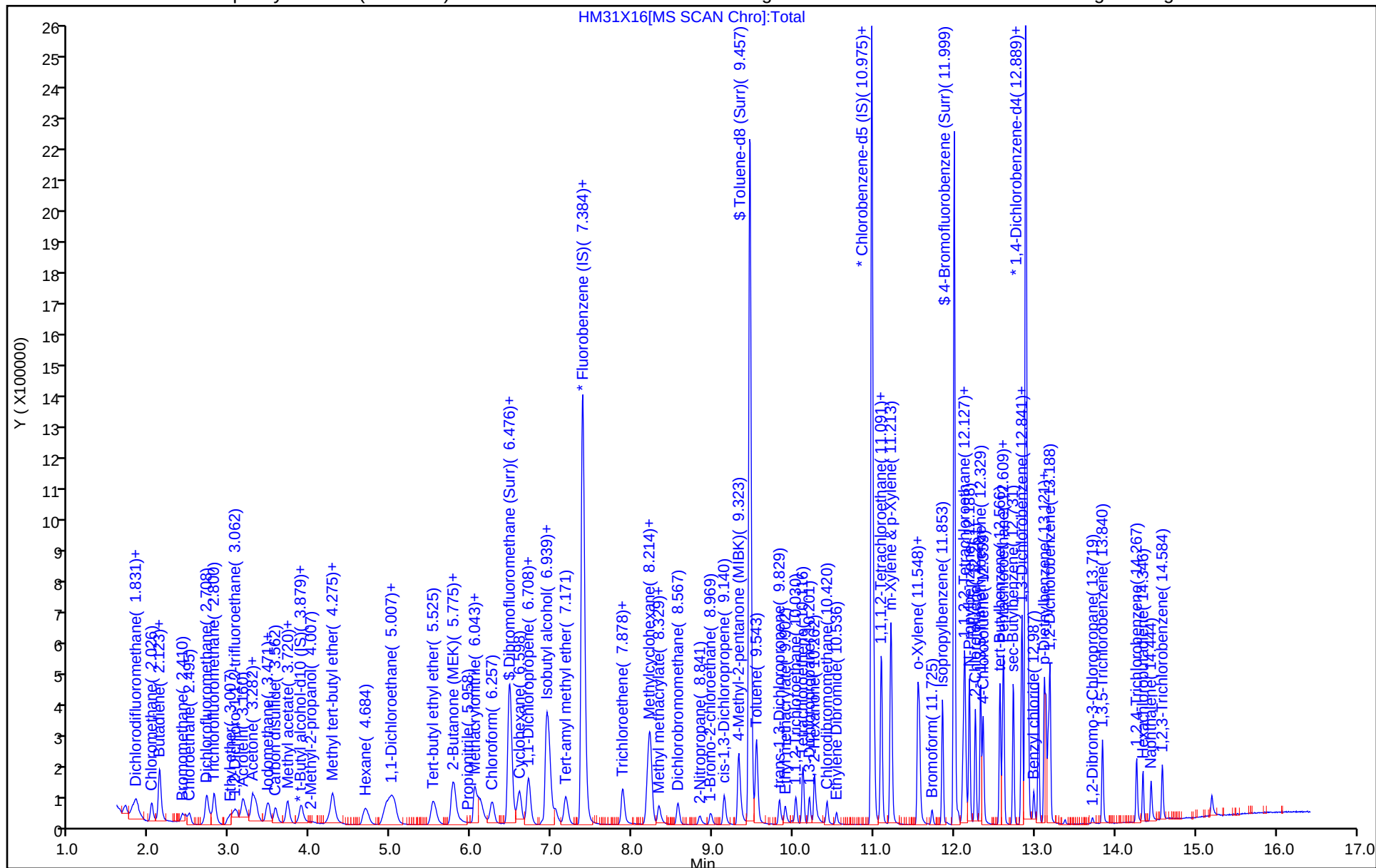
ALS Bottle#: 16

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

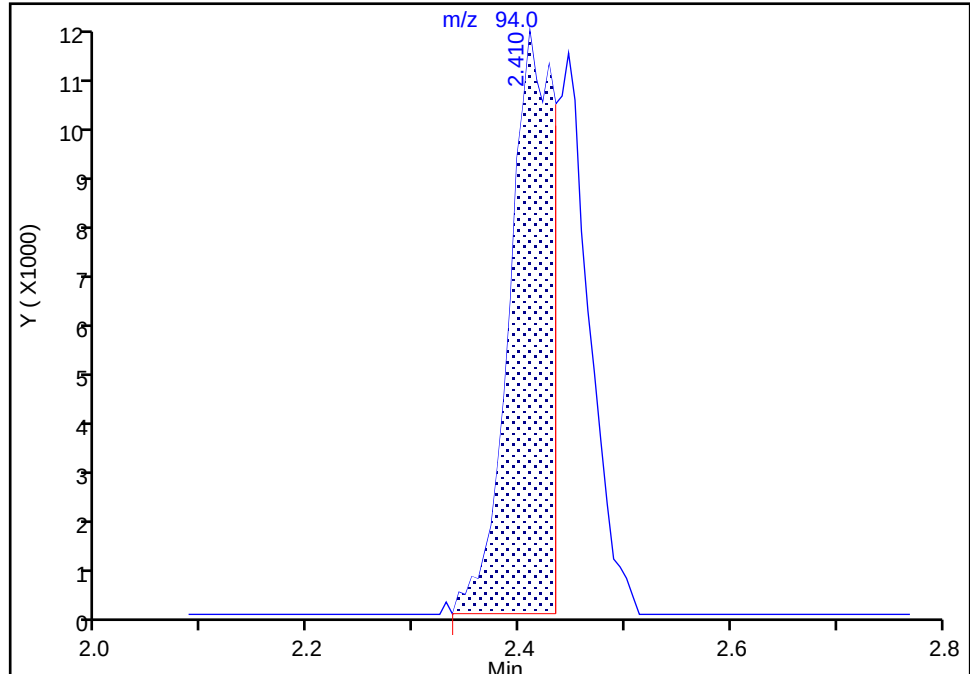
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Injection Date: 31-Mar-2025 17:16:30 Instrument ID: 19094
Lims ID: IC std5 1
Client ID:
Operator ID: ecr105096 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

9 Bromomethane, CAS: 74-83-9

Signal: 1

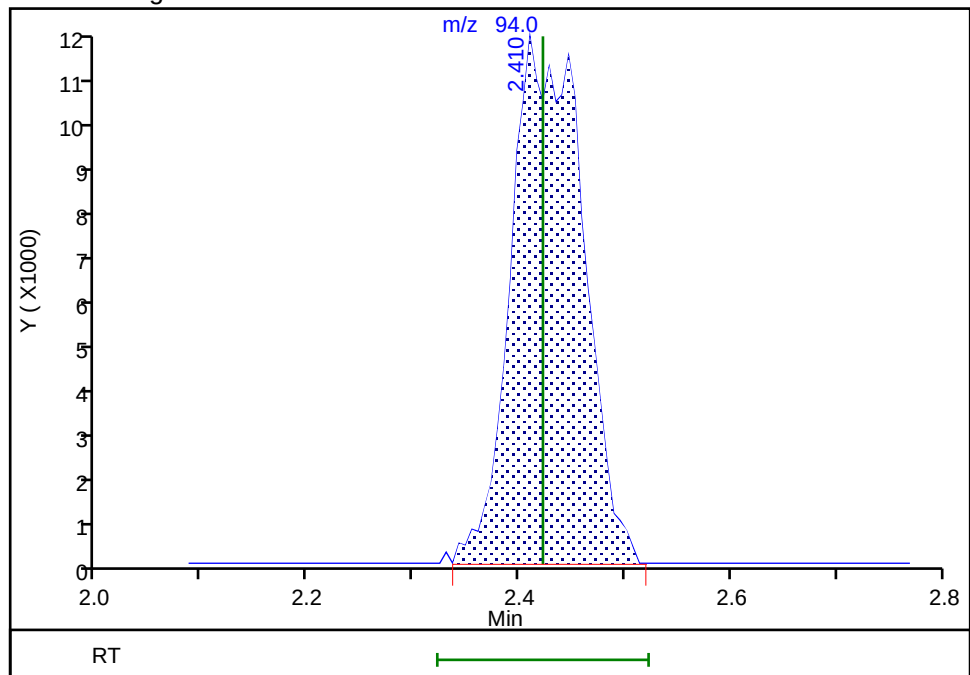
RT: 2.41
Area: 34440
Amount: 0.683371
Amount Units: ug/l

Processing Integration Results



RT: 2.41
Area: 56620
Amount: 1.010658
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:13:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

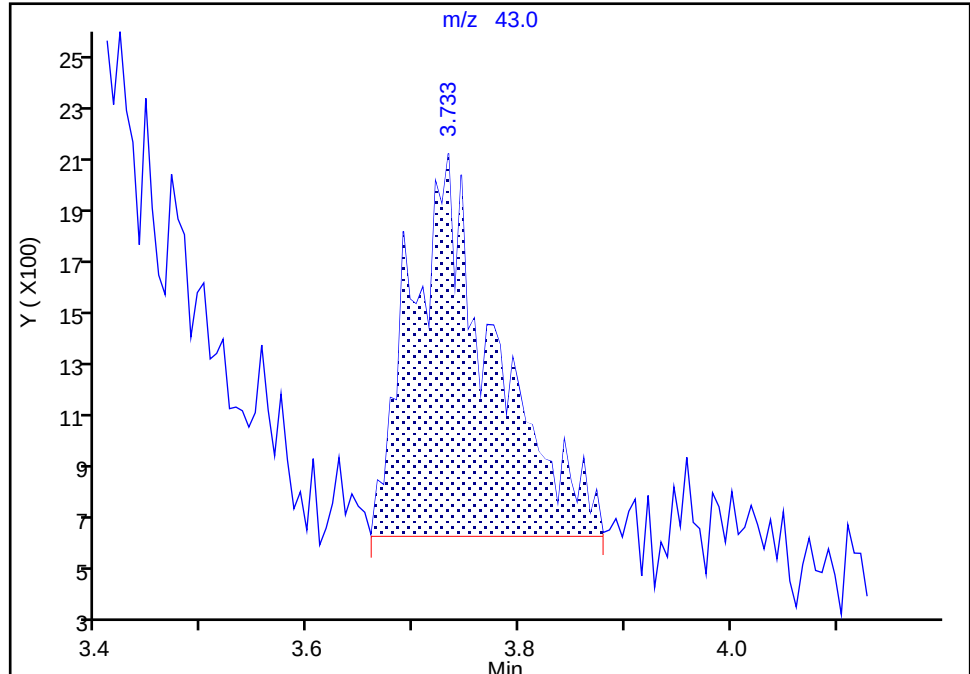
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Injection Date: 31-Mar-2025 17:16:30 Instrument ID: 19094
Lims ID: IC std5 1
Client ID:
Operator ID: ecr105096 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

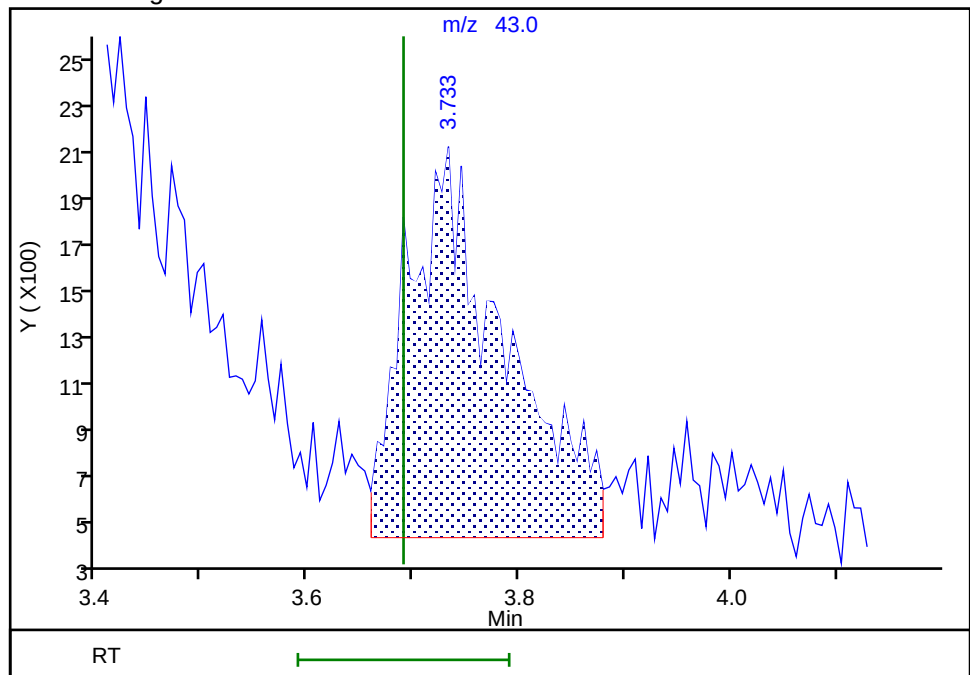
RT: 3.73
Area: 7900
Amount: 0.672213
Amount Units: ug/l

Processing Integration Results



RT: 3.73
Area: 10553
Amount: 1.140972
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 10-Apr-2025 10:10:21 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

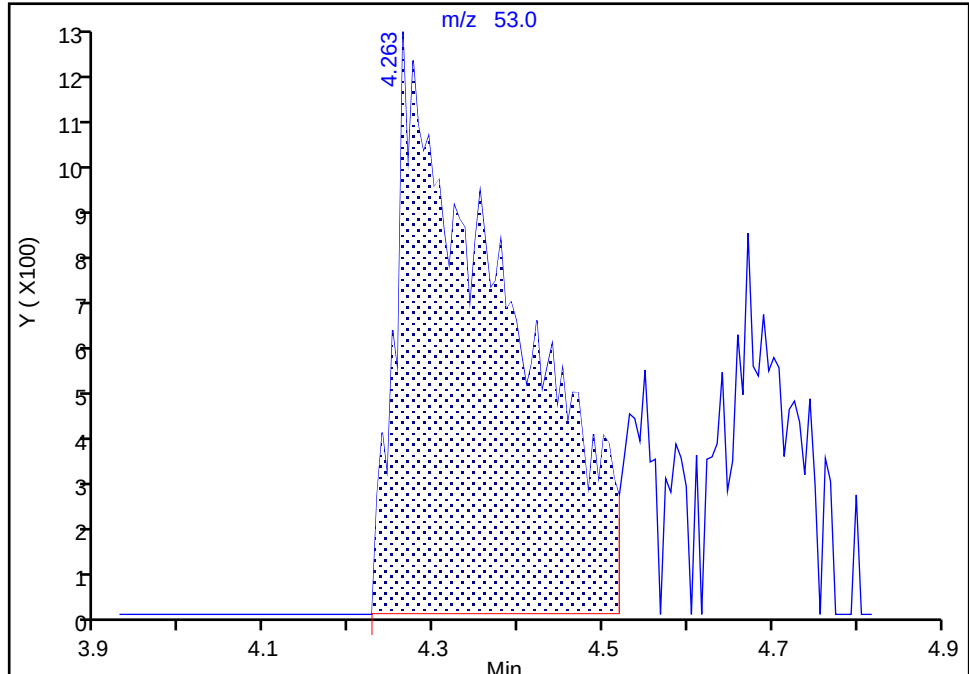
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Injection Date: 31-Mar-2025 17:16:30 Instrument ID: 19094
Lims ID: IC std5 1
Client ID:
Operator ID: ecr105096 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

31 Acrylonitrile, CAS: 107-13-1

Signal: 1

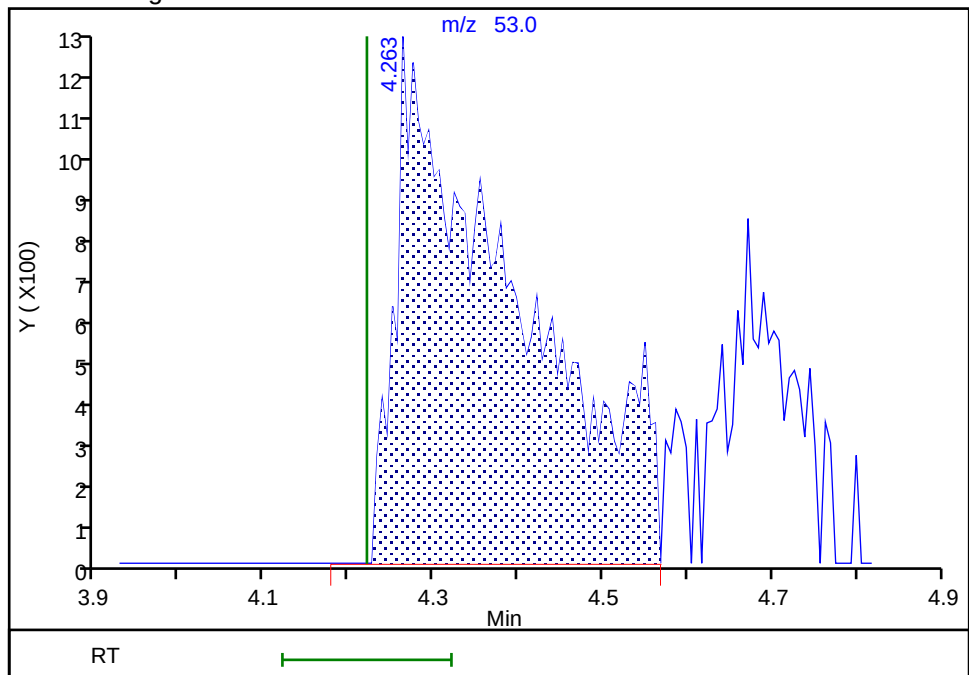
RT: 4.26
Area: 11377
Amount: 2.132417
Amount Units: ug/l

Processing Integration Results



RT: 4.26
Area: 12400
Amount: 3.058629
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 10-Apr-2025 10:16:34 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

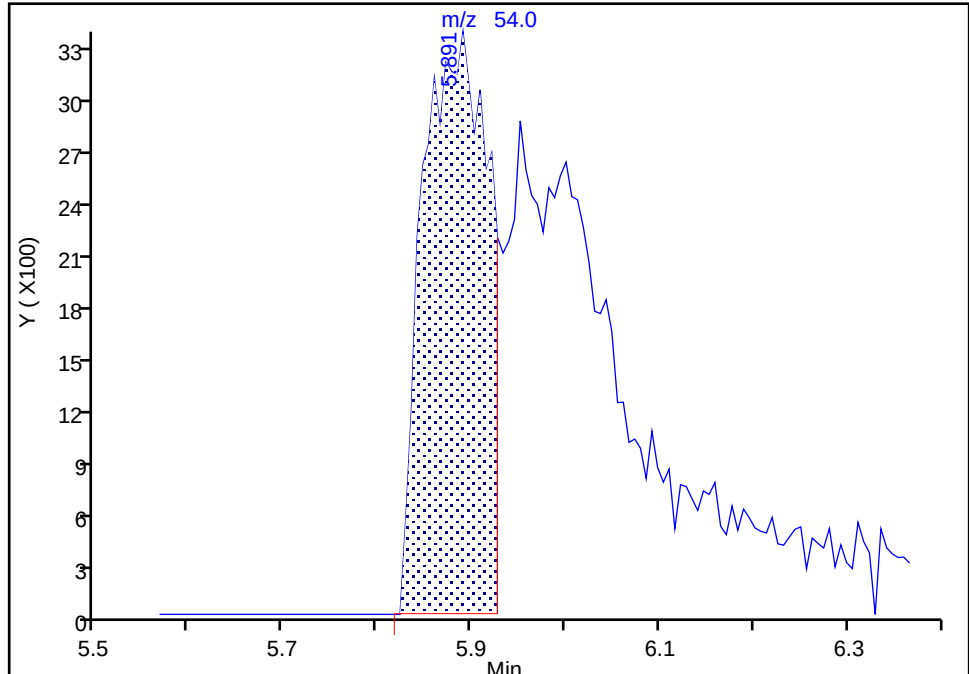
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Injection Date: 31-Mar-2025 17:16:30 Instrument ID: 19094
Lims ID: IC std5 1
Client ID:
Operator ID: ecr105096 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

44 Propionitrile, CAS: 107-12-0

Signal: 1

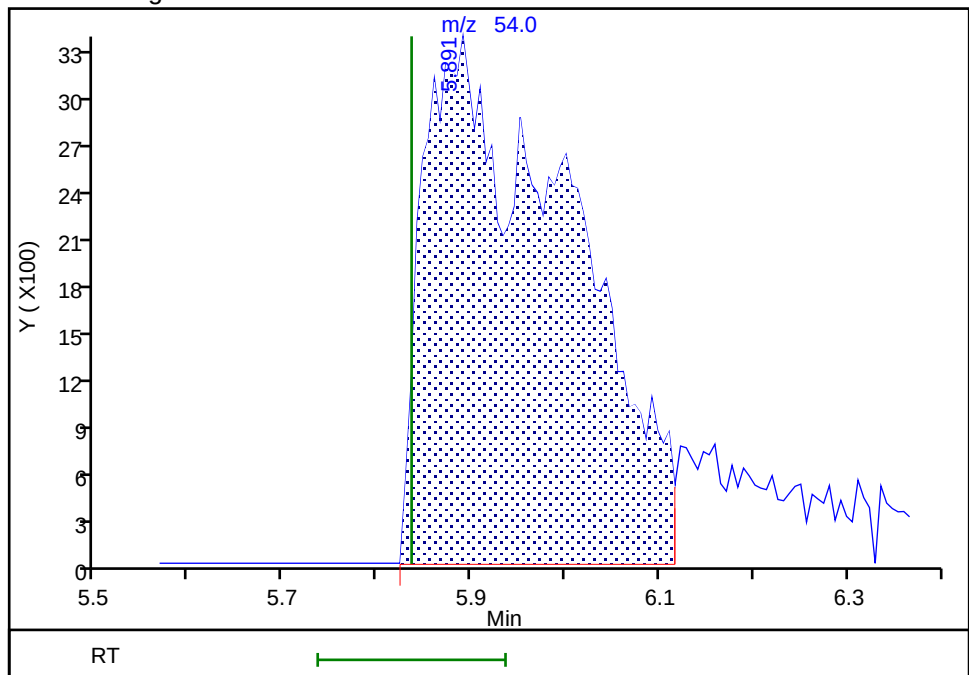
RT: 5.89
Area: 16190
Amount: 15.140333
Amount Units: ug/l

Processing Integration Results



RT: 5.89
Area: 36402
Amount: 17.634393
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 11-Apr-2025 09:46:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Environment Testing, LLC

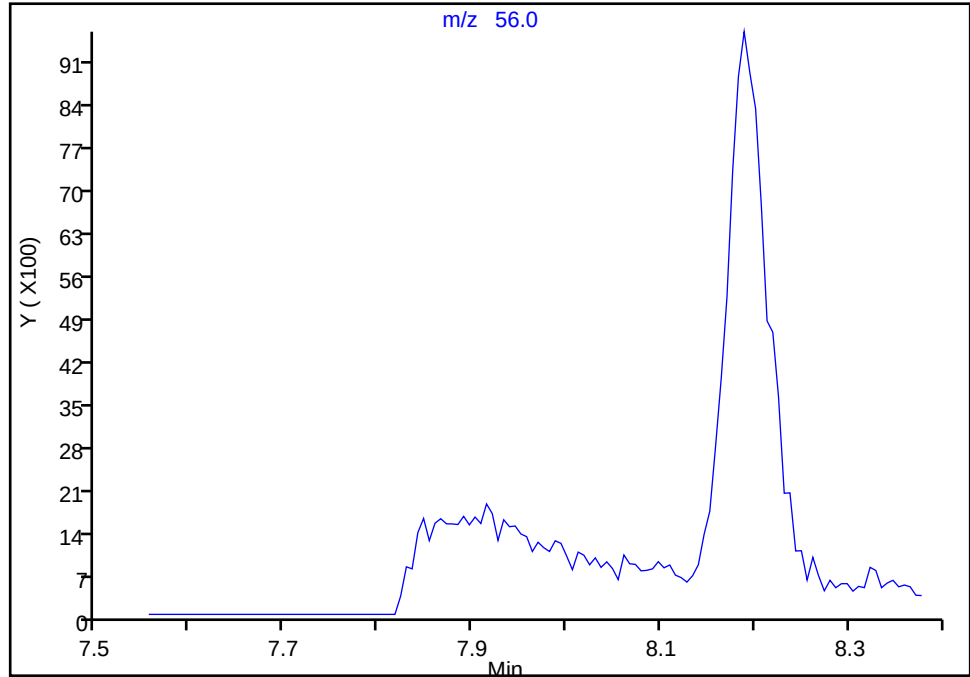
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Injection Date: 31-Mar-2025 17:16:30 Instrument ID: 19094
Lims ID: IC std5 1
Client ID:
Operator ID: ecr105096 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

67 n-Butanol, CAS: 71-36-3

Signal: 1

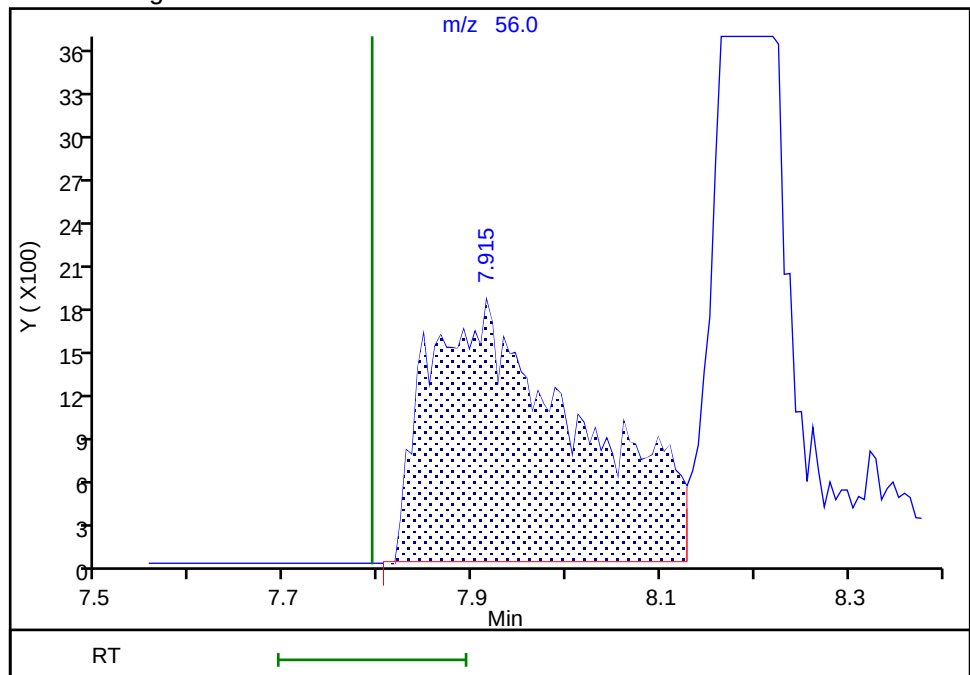
Not Detected
Expected RT: 7.79

Processing Integration Results



RT: 7.91
Area: 20079
Amount: 80.094111
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 10-Apr-2025 10:34:16 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

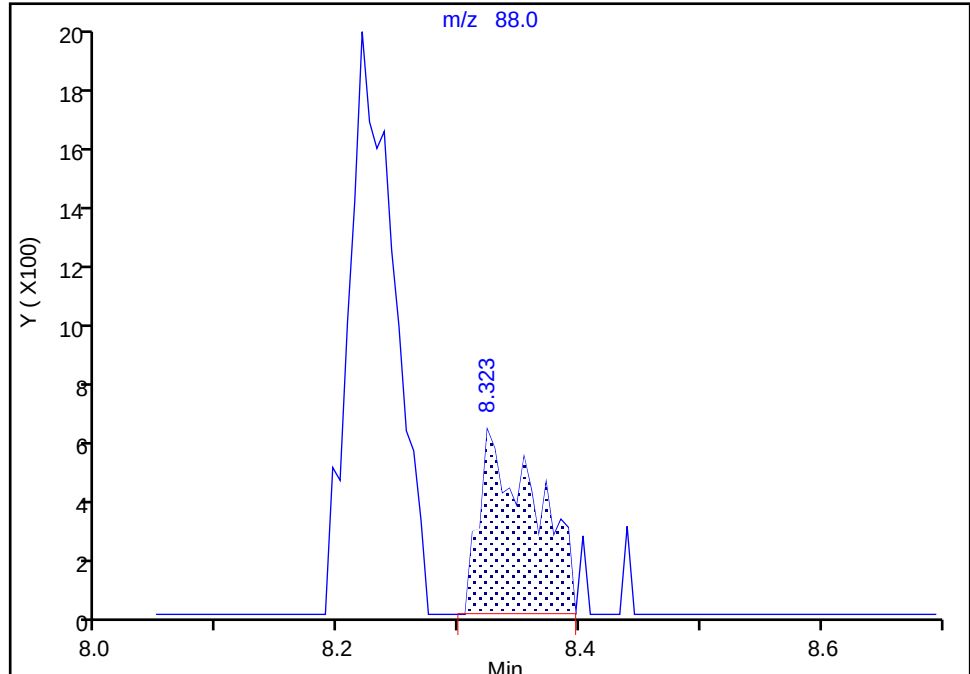
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Injection Date: 31-Mar-2025 17:16:30 Instrument ID: 19094
Lims ID: IC std5 1
Client ID:
Operator ID: ecr105096 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

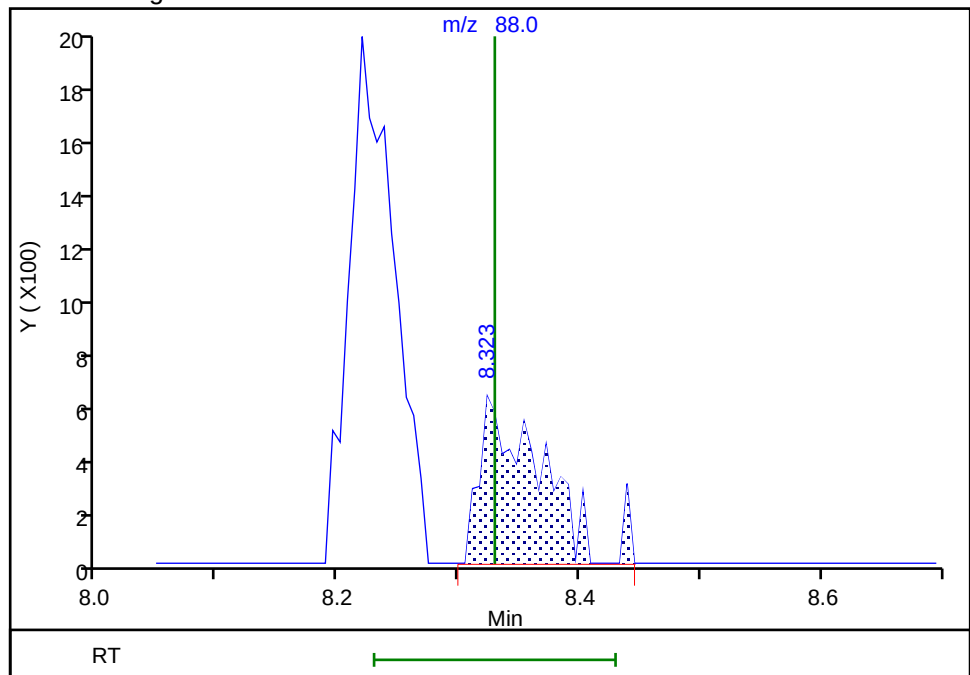
RT: 8.32
Area: 1990
Amount: 20.462548
Amount Units: ug/l

Processing Integration Results



RT: 8.32
Area: 2194
Amount: 35.934238
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:14:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X17.D
 Lims ID: IC std6 2
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 31-Mar-2025 17:36:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142485-018
 Misc. Info.: IC STD6 2
 Operator ID: ecr105096 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 12-Apr-2025 07:05:21 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1648

First Level Reviewer: N7YK

Date: 01-Apr-2025 16:17:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.849	1.849	0.000	99	136393	2.00	2.02	
5 Chloromethane	50	2.032	2.032	0.000	99	167072	2.00	1.75	
7 Butadiene	39	2.129	2.129	0.000	91	164104	2.00	1.90	
6 Vinyl chloride	62	2.142	2.142	0.000	98	166041	2.00	1.99	
9 Bromomethane	94	2.428	2.428	0.000	91	110452	2.00	1.95	
10 Chloroethane	64	2.501	2.501	0.000	99	98650	2.00	2.10	
11 Dichlorofluoromethane	67	2.715	2.715	0.000	97	252470	2.00	1.89	
12 Trichlorofluoromethane	101	2.806	2.806	0.000	51	192097	2.00	1.95	
14 Ethyl ether	59	2.995	2.995	0.000	93	72449	2.00	2.13	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.068	3.068	0.000	95	150349	2.00	2.04	
16 Acrolein	56	3.166	3.166	0.000	100	443372	97.6	96.7	
17 1,1-Dichloroethene	96	3.282	3.282	0.000	97	96491	2.00	2.04	
19 Acetone	43	3.330	3.330	0.000	49	91302	20.0	18.8	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.324	3.324	0.000	92	107791	2.00	2.07	
21 Iodomethane	142	3.465	3.465	0.000	99	187338	2.00	2.07	
22 Ethyl bromide	108	3.489	3.489	0.000	98	87871	2.00	2.01	
23 Carbon disulfide	76	3.568	3.568	0.000	99	285486	2.00	1.89	
24 Methyl acetate	43	3.721	3.721	0.000	23	17895	2.00	1.56	M
26 3-Chloro-1-propene	41	3.721	3.721	0.000	92	185757	2.00	1.88	
27 Methylene Chloride	84	3.891	3.891	0.000	94	102190	2.00	2.06	
* 28 t-Butyl alcohol-d10 (IS)	65	3.885	3.885	0.000	33	66026	50.0	50.0	
29 2-Methyl-2-propanol	59	4.007	4.007	0.000	83	48312	40.0	35.9	M
31 Acrylonitrile	53	4.282	4.282	0.000	23	28840	5.00	4.89	M
32 Methyl tert-butyl ether	73	4.263	4.263	0.000	96	219886	2.00	2.00	
33 trans-1,2-Dichloroethene	96	4.275	4.275	0.000	98	109427	2.00	2.07	
34 Hexane	57	4.696	4.696	0.000	92	164844	2.00	2.07	
36 1,1-Dichloroethane	63	4.928	4.928	0.000	96	213861	2.00	2.02	
37 Isopropyl ether	45	4.995	4.995	0.000	96	373726	2.00	2.05	
38 2-Chloro-1,3-butadiene	53	5.044	5.044	0.000	92	183306	2.00	1.98	
40 Tert-butyl ethyl ether	59	5.531	5.531	0.000	98	325196	2.00	2.01	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.757	5.757	0.000	100	159105	20.0	17.4	
42 cis-1,2-Dichloroethene	96	5.769	5.769	0.000	84	124277	2.00	1.97	
43 2,2-Dichloropropane	77	5.781	5.781	0.000	86	182207	2.00	2.07	
44 Propionitrile	54	5.879	5.879	0.000	97	77073	40.0	35.4	M
47 Methacrylonitrile	67	6.037	6.037	0.000	92	188597	20.0	16.6	
48 Chlorobromomethane	128	6.098	6.098	0.000	95	46551	2.00	2.15	
49 Tetrahydrofuran	71	6.135	6.135	0.000	84	23668	10.0	8.03	
S 46 1,2-Dichloroethene, Total	100				0			4.04	
50 Chloroform	83	6.257	6.257	0.000	94	202361	2.00	2.05	
\$ 52 Dibromofluoromethane (Surr)	113	6.476	6.476	0.000	94	440700	10.0	9.96	
53 1,1,1-Trichloroethane	97	6.488	6.488	0.000	98	180500	2.00	2.02	
54 Cyclohexane	56	6.598	6.598	0.000	91	217619	2.00	2.11	
55 1,1-Dichloropropene	75	6.708	6.708	0.000	96	170477	2.00	2.00	
56 Carbon tetrachloride	117	6.714	6.714	0.000	94	160856	2.00	2.03	
57 Isobutyl alcohol	41	6.879	6.879	0.000	93	45165	100.0	100.0	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.940	6.940	0.000	87	79229	10.0	10.1	
59 Benzene	78	6.970	6.970	0.000	97	486750	2.00	1.99	
60 1,2-Dichloroethane	62	7.043	7.043	0.000	97	105345	2.00	2.05	
63 Tert-amyl methyl ether	73	7.171	7.171	0.000	99	262765	2.00	2.03	
* 64 Fluorobenzene (IS)	96	7.385	7.385	0.000	99	2036656	10.0	10.0	
65 n-Heptane	43	7.409	7.409	0.000	95	156250	2.00	2.06	
67 n-Butanol	56	7.830	7.830	0.000	24	50969	175.0	168.4	M
68 Trichloroethene	95	7.878	7.878	0.000	98	123692	2.00	1.98	
69 Methylcyclohexane	83	8.195	8.195	0.000	92	218733	2.00	2.16	
70 1,2-Dichloropropane	63	8.214	8.214	0.000	96	122864	2.00	2.08	
71 2-ethoxy-2-methyl butane	87	8.232	8.232	0.000	92	182276	2.00	2.05	
72 Methyl methacrylate	69	8.323	8.323	0.000	87	38693	2.00	1.66	
74 Dibromomethane	93	8.323	8.323	0.000	95	46457	2.00	2.10	
73 1,4-Dioxane	88	8.342	8.342	0.000	28	7381	100.0	114.8	M
76 Dichlorobromomethane	83	8.567	8.567	0.000	99	133432	2.00	2.05	
77 2-Nitropropane	41	8.835	8.835	0.000	98	55740	10.0	8.00	
79 1-Bromo-2-chloroethane	63	8.970	8.970	0.000	98	103306	2.00	2.03	
80 cis-1,3-Dichloropropene	75	9.140	9.140	0.000	96	168861	2.00	2.02	
82 4-Methyl-2-pentanone (MIBK)	43	9.317	9.317	0.000	97	505353	20.0	17.9	
\$ 83 Toluene-d8 (Surr)	98	9.457	9.457	0.000	94	1950607	10.0	10.0	
84 Toluene	92	9.543	9.543	0.000	98	305902	2.00	2.01	
85 trans-1,3-Dichloropropene	75	9.823	9.823	0.000	93	123784	2.00	2.08	
104 Ethyl methacrylate	69	9.896	9.896	0.000	90	93906	2.00	2.23	
106 1,1,2-Trichloroethane	97	10.030	10.030	0.000	90	66363	2.00	2.03	
S 105 1,3-Dichloropropene, Total	100				0			4.10	
107 Tetrachloroethene	166	10.116	10.116	0.000	98	137177	2.00	1.94	
108 1,3-Dichloropropane	76	10.195	10.195	0.000	90	123353	2.00	2.09	
109 2-Hexanone	43	10.262	10.262	0.000	97	323909	20.0	16.5	
111 Chlorodibromomethane	129	10.421	10.421	0.000	90	86335	2.00	2.13	
112 Ethylene Dibromide	107	10.536	10.536	0.000	99	62403	2.00	2.11	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	86	1437185	10.0	10.0	
114 1-Chlorohexane	91	10.988	10.988	0.000	98	171870	2.00	1.83	
115 Chlorobenzene	112	11.000	11.000	0.000	95	325561	2.00	2.00	
116 1,1,1,2-Tetrachloroethane	131	11.091	11.091	0.000	96	112635	2.00	2.10	
117 Ethylbenzene	91	11.091	11.091	0.000	99	596351	2.00	2.00	
119 m-Xylene & p-Xylene	106	11.213	11.213	0.000	100	458577	4.00	4.10	
S 118 Xylenes, Total	106				0			6.17	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 o-Xylene	106	11.548	11.548	0.000	97	220158	2.00	2.06	
121 Styrene	104	11.567	11.567	0.000	95	344681	2.00	2.11	
122 Bromoform	173	11.725	11.725	0.000	97	48203	2.00	2.15	
123 Isopropylbenzene	105	11.853	11.853	0.000	96	514898	2.00	2.00	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.000	12.000	0.000	91	713534	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.103	12.103	0.000	93	78902	2.00	2.11	
128 Bromobenzene	156	12.115	12.115	0.000	96	128408	2.00	2.09	
129 trans-1,4-Dichloro-2-butene	53	12.128	12.128	0.000	91	191300	20.0	17.1	
130 1,2,3-Trichloropropane	110	12.146	12.146	0.000	79	19822	2.00	2.18	
131 N-Propylbenzene	91	12.189	12.189	0.000	99	680732	2.00	2.07	
132 2-Chlorotoluene	126	12.262	12.262	0.000	96	136193	2.00	2.08	
133 1,3,5-Trimethylbenzene	105	12.329	12.329	0.000	94	473939	2.00	2.05	
134 4-Chlorotoluene	126	12.359	12.359	0.000	98	134434	2.00	2.00	
135 tert-Butylbenzene	134	12.566	12.566	0.000	94	109393	2.00	2.11	
136 Pentachloroethane	167	12.597	12.597	0.000	89	77575	2.00	2.06	
137 1,2,4-Trimethylbenzene	105	12.609	12.609	0.000	97	487969	2.00	2.07	
138 sec-Butylbenzene	105	12.731	12.731	0.000	94	585161	2.00	2.04	
139 1,3-Dichlorobenzene	146	12.835	12.835	0.000	98	247555	2.00	2.04	
140 4-Isopropyltoluene	119	12.841	12.841	0.000	97	503484	2.00	2.07	
* 141 1,4-Dichlorobenzene-d4	152	12.890	12.890	0.000	95	758619	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.908	12.908	0.000	96	248676	2.00	1.93	
143 1,2,3-Trimethylbenzene	120	12.914	12.914	0.000	97	214497	2.00	2.00	
144 Benzyl chloride	126	12.987	12.987	0.000	99	31430	2.00	2.12	
145 p-Diethylbenzene	119	13.115	13.115	0.000	95	297343	2.00	2.13	
146 n-Butylbenzene	92	13.140	13.140	0.000	98	228370	2.00	2.09	
147 1,2-Dichlorobenzene	146	13.164	13.164	0.000	98	219740	2.00	2.10	
149 1,2-Dibromo-3-Chloropropane	155	13.719	13.719	0.000	83	9614	2.00	2.08	
150 1,3,5-Trichlorobenzene	180	13.841	13.841	0.000	98	182874	2.00	2.09	
151 1,2,4-Trichlorobenzene	180	14.261	14.261	0.000	94	141195	2.00	2.16	
152 Hexachlorobutadiene	225	14.347	14.347	0.000	95	61624	2.00	1.96	
153 Naphthalene	128	14.444	14.444	0.000	97	224942	2.00	2.14	
154 1,2,3-Trichlorobenzene	180	14.584	14.584	0.000	96	122159	2.00	2.14	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00163	Amount Added: 2.00	Units: uL	
MSV_LL_GAS826_00264	Amount Added: 2.00	Units: uL	
MSV_LL_#2_826_00174	Amount Added: 2.00	Units: uL	
MSV_LLcentISS_00016	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 12-Apr-2025 07:05:21

Chrom Revision: 2.3 08-Apr-2025 13:07:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X17.D

Injection Date: 31-Mar-2025 17:36:30

Instrument ID: 19094

Operator ID: ecr105096

Lims ID: IC std6 2

Worklist Smp#: 18

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

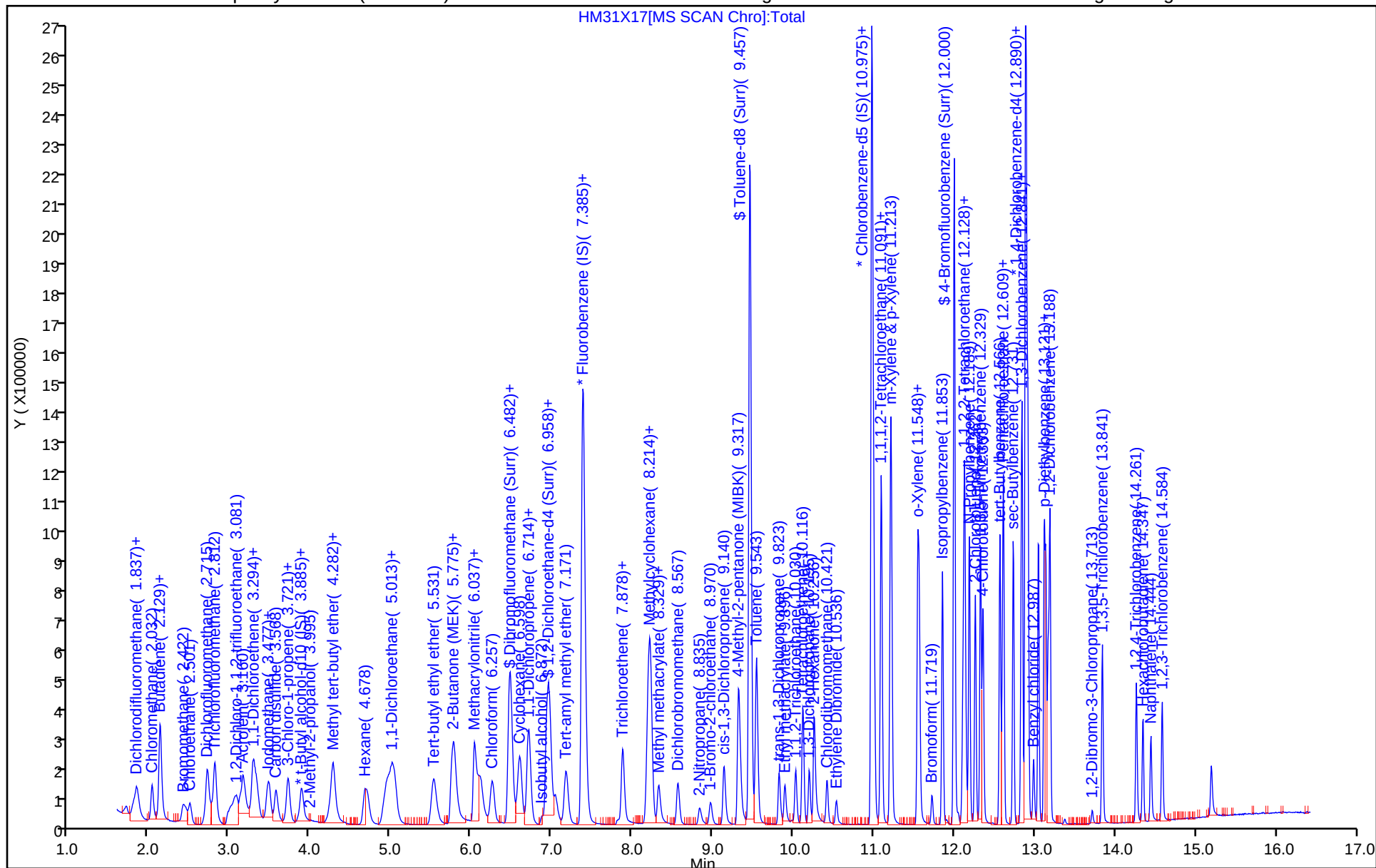
ALS Bottle#: 17

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

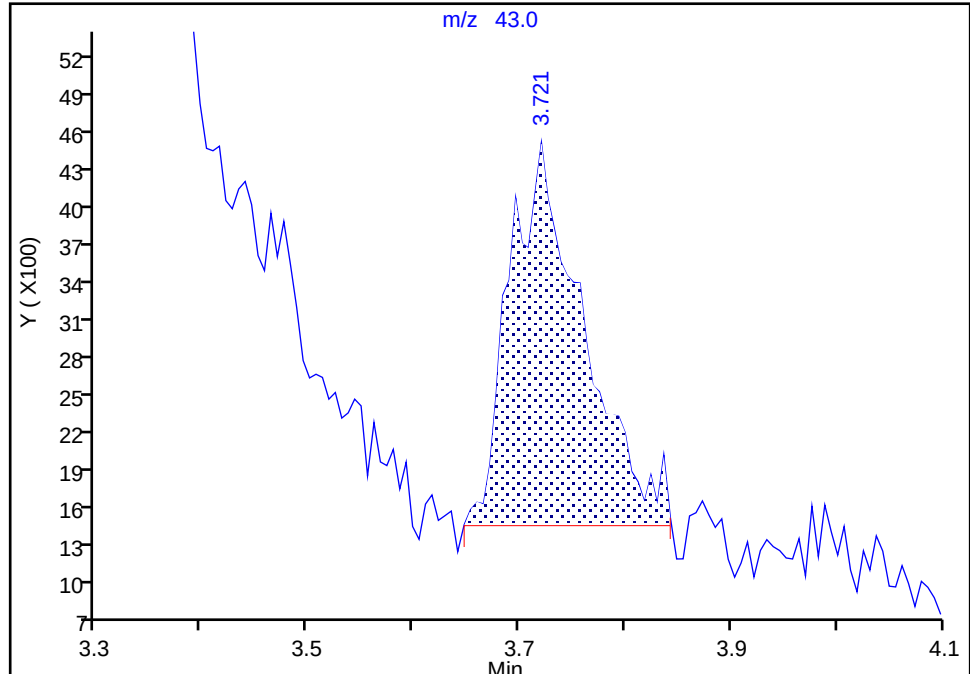
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Injection Date: 31-Mar-2025 17:36:30 Instrument ID: 19094
Lims ID: IC std6 2
Client ID:
Operator ID: ecr105096 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

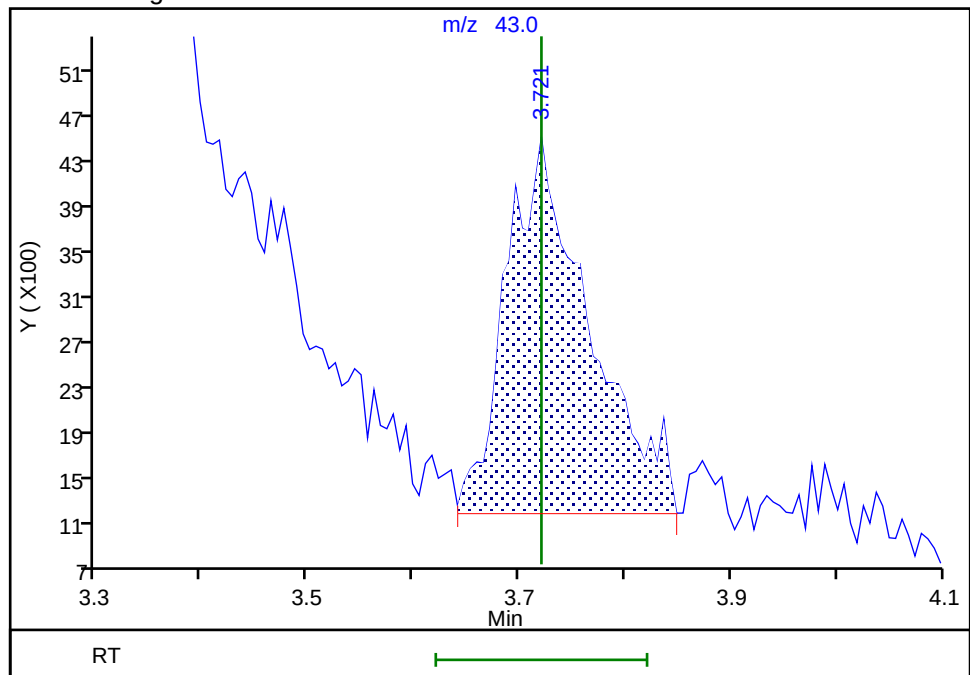
RT: 3.72
Area: 14647
Amount: 1.150638
Amount Units: ug/l

Processing Integration Results



RT: 3.72
Area: 17895
Amount: 1.557881
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 11-Apr-2025 09:49:07 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Environment Testing, LLC

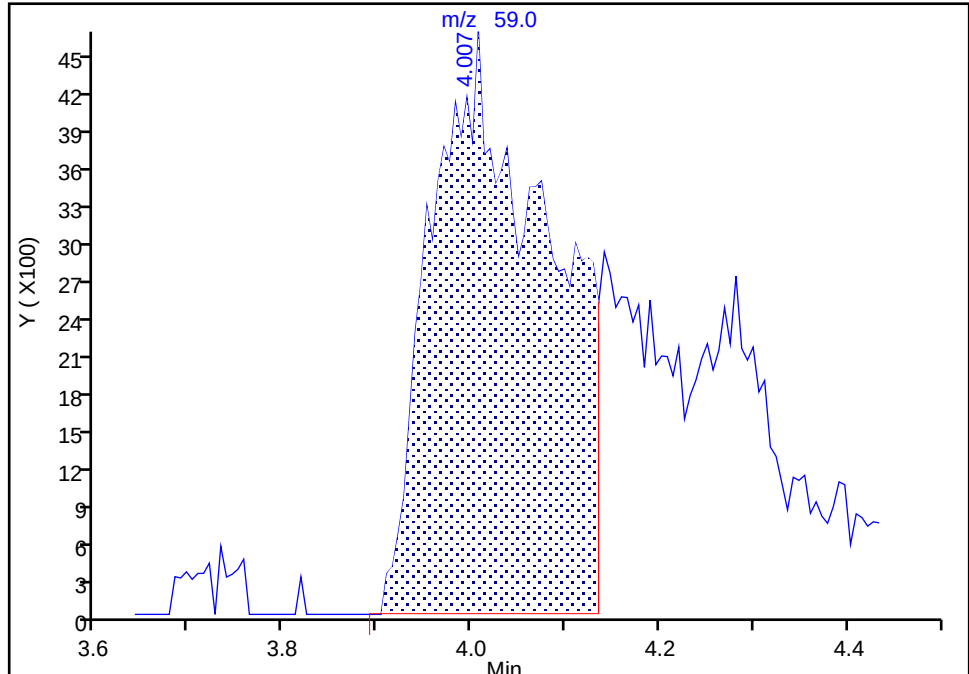
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Injection Date: 31-Mar-2025 17:36:30 Instrument ID: 19094
Lims ID: IC std6 2
Client ID:
Operator ID: ecr105096 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

29 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

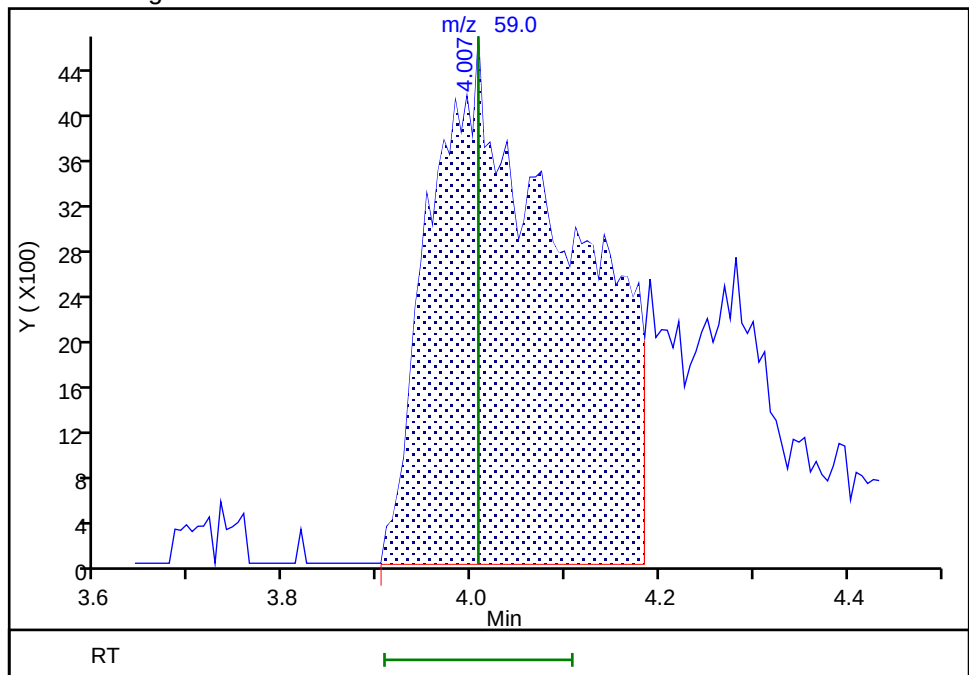
RT: 4.01
Area: 41000
Amount: 34.230128
Amount Units: ug/l

Processing Integration Results



RT: 4.01
Area: 48312
Amount: 35.893799
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 11-Apr-2025 09:48:16 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Environment Testing, LLC

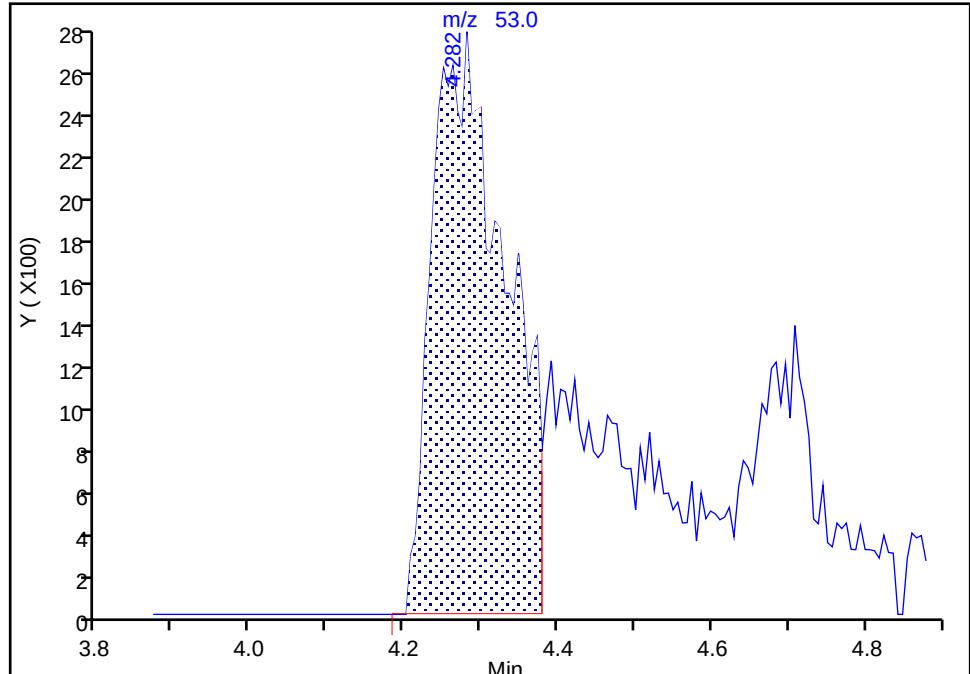
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Injection Date: 31-Mar-2025 17:36:30 Instrument ID: 19094
Lims ID: IC std6 2
Client ID:
Operator ID: ecr105096 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

31 Acrylonitrile, CAS: 107-13-1

Signal: 1

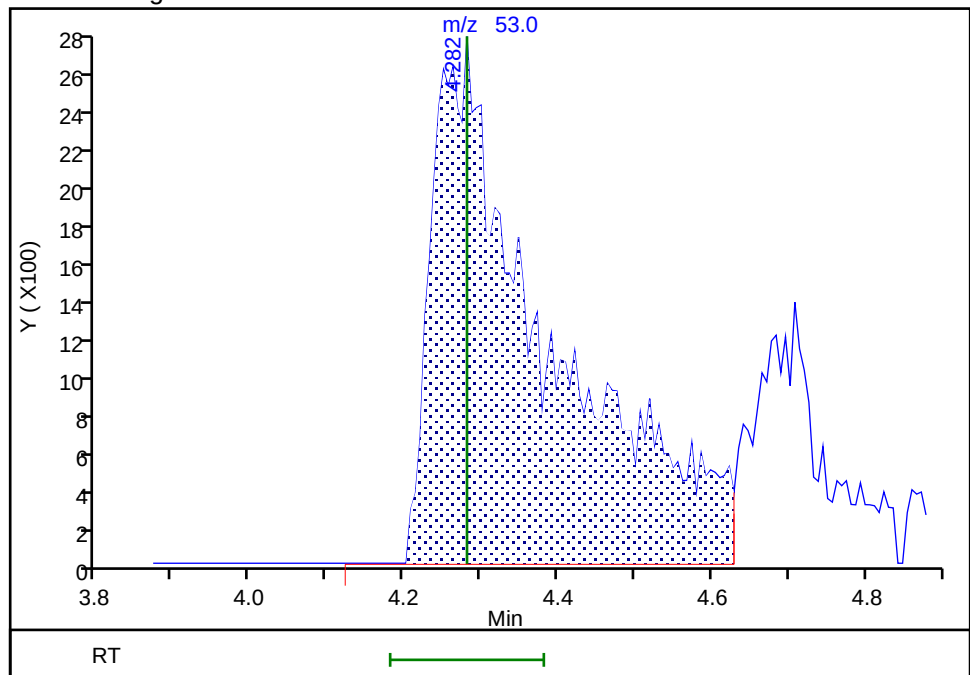
RT: 4.28
Area: 18299
Amount: 3.207075
Amount Units: ug/l

Processing Integration Results



RT: 4.28
Area: 28840
Amount: 4.885516
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 11-Apr-2025 09:48:38 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Other

Eurofins Lancaster Laboratories Environment Testing, LLC

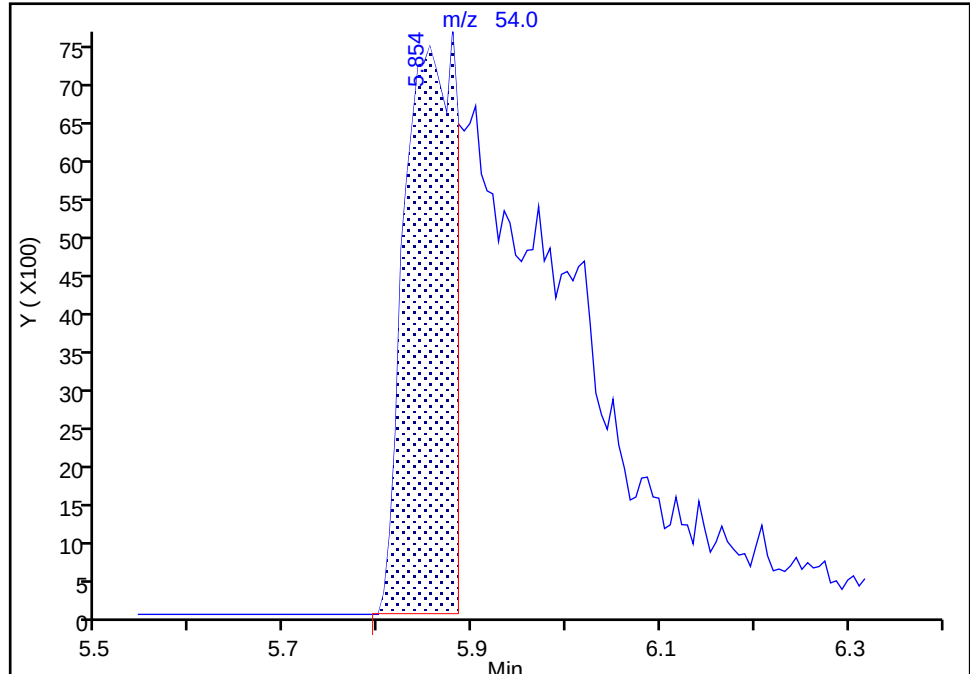
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Injection Date: 31-Mar-2025 17:36:30 Instrument ID: 19094
Lims ID: IC std6 2
Client ID:
Operator ID: ecr105096 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

44 Propionitrile, CAS: 107-12-0

Signal: 1

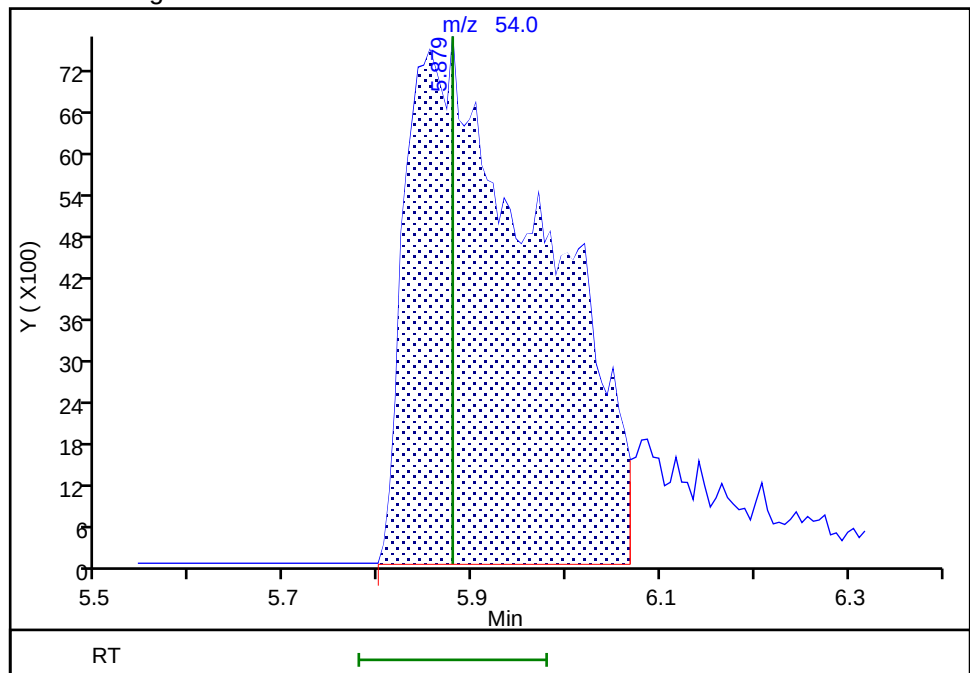
RT: 5.85
Area: 28433
Amount: 16.736687
Amount Units: ug/l

Processing Integration Results



RT: 5.88
Area: 77073
Amount: 35.447545
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 11-Apr-2025 09:47:40 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Environment Testing, LLC

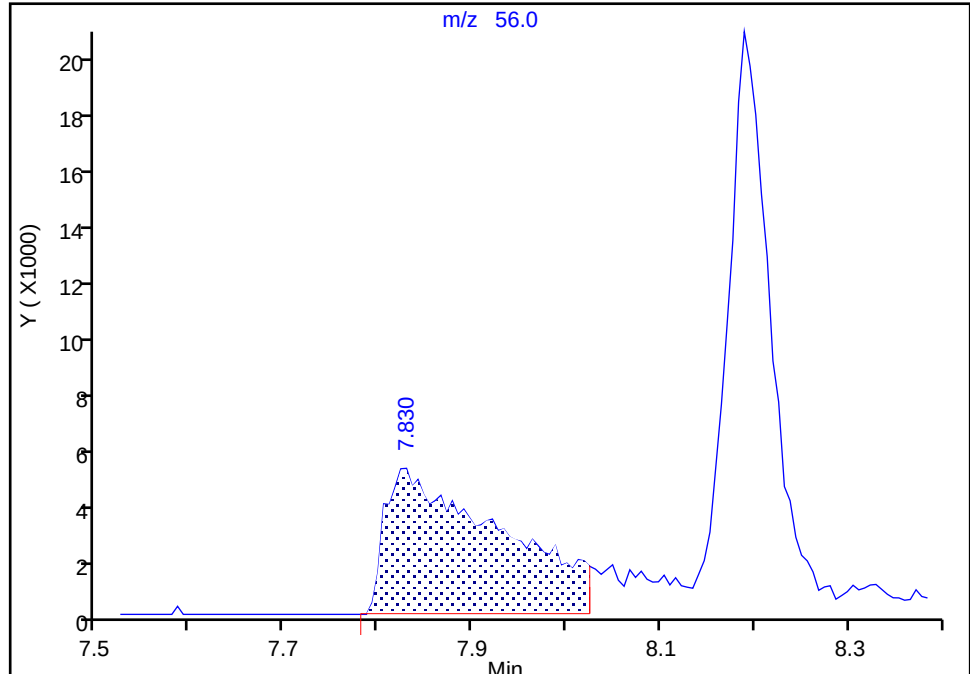
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Injection Date: 31-Mar-2025 17:36:30 Instrument ID: 19094
Lims ID: IC std6 2
Client ID:
Operator ID: ecr105096 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

67 n-Butanol, CAS: 71-36-3

Signal: 1

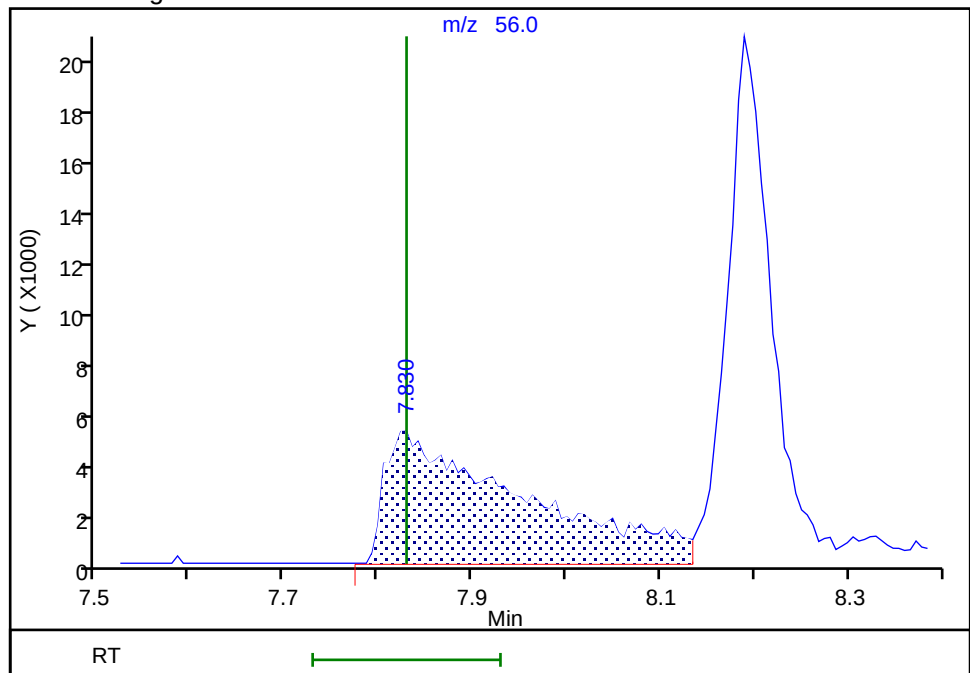
RT: 7.83
Area: 42853
Amount: 156.3822
Amount Units: ug/l

Processing Integration Results



RT: 7.83
Area: 50969
Amount: 168.4055
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 10-Apr-2025 10:34:00 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

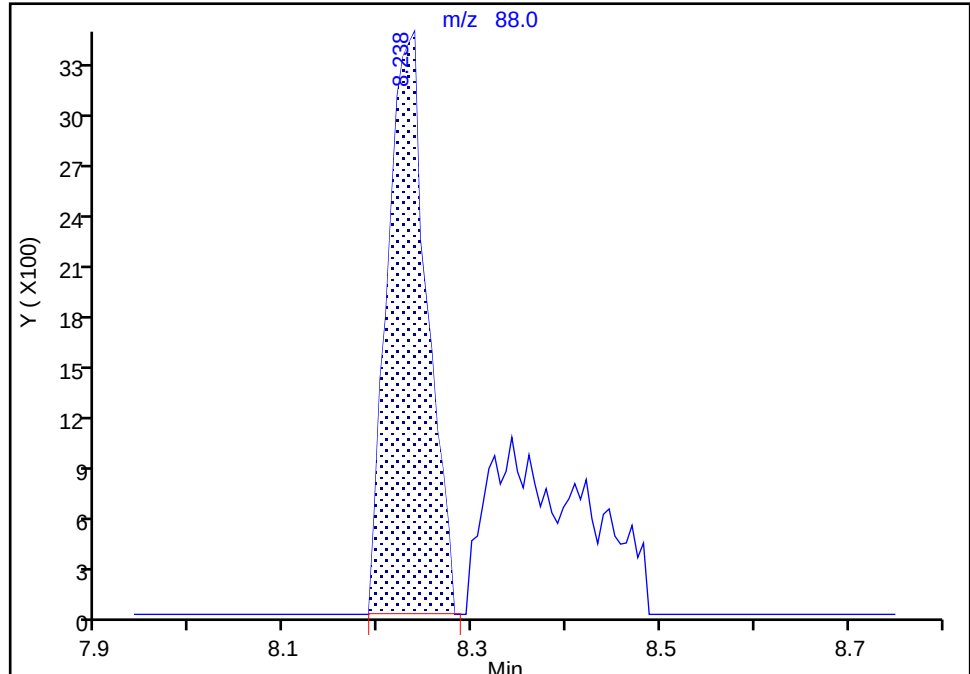
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Injection Date: 31-Mar-2025 17:36:30 Instrument ID: 19094
Lims ID: IC std6 2
Client ID:
Operator ID: ecr105096 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

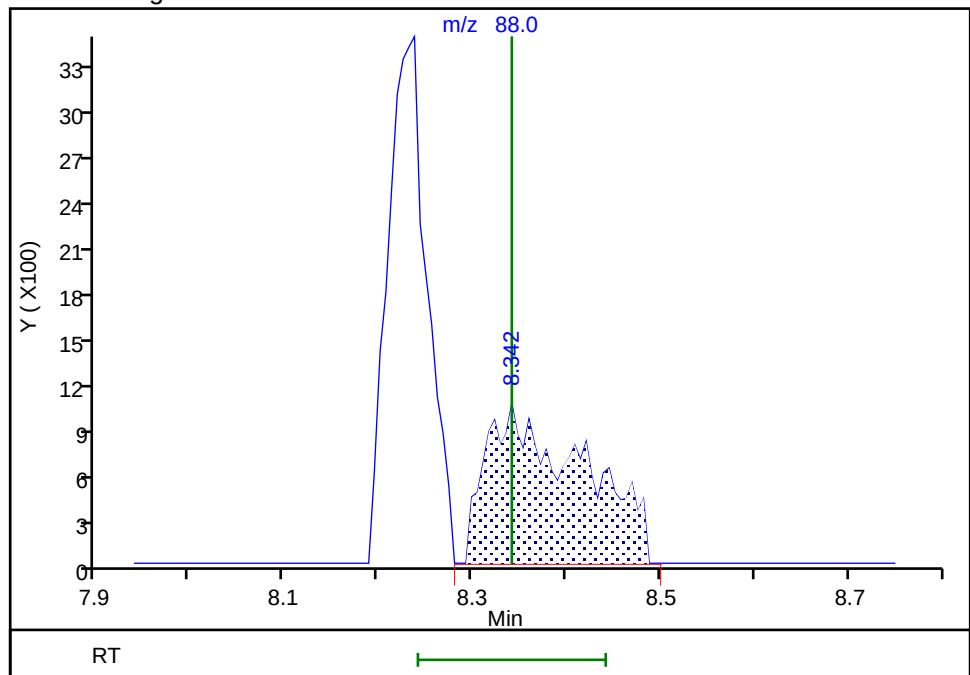
RT: 8.24
Area: 10052
Amount: 81.827348
Amount Units: ug/l

Processing Integration Results



RT: 8.34
Area: 7381
Amount: 114.7719
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:17:23 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X18.D
 Lims ID: IC std7 5
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 31-Mar-2025 17:57:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142485-019
 Misc. Info.: IC STD7 5
 Operator ID: ecr105096 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 12-Apr-2025 07:05:34 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1648

First Level Reviewer: N7YK

Date: 01-Apr-2025 16:19:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.843	1.849	-0.006	99	358196	5.00	5.23	
5 Chloromethane	50	2.026	2.032	-0.006	99	437415	5.00	4.52	
7 Butadiene	39	2.123	2.129	-0.006	91	422391	5.00	4.82	
6 Vinyl chloride	62	2.135	2.142	-0.007	98	412199	5.00	4.88	
9 Bromomethane	94	2.416	2.428	-0.012	90	270574	5.00	4.70	
10 Chloroethane	64	2.501	2.501	0.000	100	242113	5.00	5.10	
11 Dichlorofluoromethane	67	2.708	2.715	-0.007	97	629396	5.00	4.64	
12 Trichlorofluoromethane	101	2.806	2.806	0.000	51	495457	5.00	4.95	
14 Ethyl ether	59	2.995	2.995	0.000	93	179311	5.00	5.21	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.068	3.068	0.000	96	372262	5.00	5.00	
16 Acrolein	56	3.153	3.166	-0.013	99	1073332	244.0	248.7	
17 1,1-Dichloroethene	96	3.281	3.282	-0.001	97	239637	5.00	5.01	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.324	3.324	0.000	93	269240	5.00	5.10	
19 Acetone	43	3.294	3.330	-0.036	36	198038	50.0	43.4	
21 Iodomethane	142	3.458	3.465	-0.007	98	470589	5.00	5.12	
22 Ethyl bromide	108	3.483	3.489	-0.006	99	221176	5.01	4.98	
23 Carbon disulfide	76	3.562	3.568	-0.006	99	728169	5.00	4.75	
24 Methyl acetate	43	3.684	3.721	-0.037	96	58768	5.00	4.30	M
26 3-Chloro-1-propene	41	3.714	3.721	-0.007	93	462200	5.00	4.62	
* 28 t-Butyl alcohol-d10 (IS)	65	3.940	3.885	0.055	97	62136	50.0	50.0	
27 Methylene Chloride	84	3.885	3.891	-0.006	94	258365	5.00	5.14	
29 2-Methyl-2-propanol	59	3.970	4.007	-0.037	97	126686	100.0	100.0	M
32 Methyl tert-butyl ether	73	4.257	4.263	-0.006	96	532777	5.00	4.79	
33 trans-1,2-Dichloroethene	96	4.269	4.275	-0.006	98	272734	5.00	5.09	
31 Acrylonitrile	53	4.239	4.282	-0.043	95	73458	12.5	10.6	
34 Hexane	57	4.684	4.696	-0.012	92	419580	5.00	5.19	
36 1,1-Dichloroethane	63	4.928	4.928	0.000	96	543197	5.00	5.07	
37 Isopropyl ether	45	4.982	4.995	-0.013	95	936172	5.00	5.07	
38 2-Chloro-1,3-butadiene	53	5.031	5.044	-0.013	91	474718	5.00	5.05	
40 Tert-butyl ethyl ether	59	5.525	5.531	-0.006	98	800084	5.00	4.88	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.732	5.757	-0.025	100	413320	50.0	48.0	
42 cis-1,2-Dichloroethene	96	5.769	5.769	0.000	83	308170	5.00	4.82	
43 2,2-Dichloropropane	77	5.787	5.781	0.006	86	460293	5.00	5.16	
44 Propionitrile	54	5.818	5.879	-0.061	98	209596	100.0	102.4	
47 Methacrylonitrile	67	6.025	6.037	-0.012	92	510141	50.0	43.1	
48 Chlorobromomethane	128	6.098	6.098	0.000	96	116433	5.00	5.30	
49 Tetrahydrofuran	71	6.122	6.135	-0.013	80	65206	25.0	22.0	
S 46 1,2-Dichloroethene, Total	100				0			9.91	
50 Chloroform	83	6.257	6.257	-0.001	93	505612	5.00	5.06	
\$ 52 Dibromofluoromethane (Surr)	113	6.470	6.476	-0.006	94	450365	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.494	6.488	0.006	99	458327	5.00	5.07	
54 Cyclohexane	56	6.592	6.598	-0.006	91	545908	5.00	5.22	
55 1,1-Dichloropropene	75	6.702	6.708	-0.006	97	441004	5.00	5.11	
56 Carbon tetrachloride	117	6.708	6.714	-0.006	97	409159	5.00	5.10	
57 Isobutyl alcohol	41	6.866	6.879	-0.013	94	114092	250.0	268.4	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.933	6.940	-0.007	81	80687	10.0	10.2	
59 Benzene	78	6.964	6.970	-0.006	97	1225660	5.00	4.94	
60 1,2-Dichloroethane	62	7.043	7.043	0.000	97	260178	5.00	5.00	
63 Tert-amyl methyl ether	73	7.177	7.171	0.006	99	642861	5.00	4.90	
* 64 Fluorobenzene (IS)	96	7.384	7.385	-0.001	98	2063762	10.0	10.0	
65 n-Heptane	43	7.403	7.409	-0.006	93	411161	5.00	5.35	
67 n-Butanol	56	7.793	7.830	-0.037	87	145645	437.5	475.8	
68 Trichloroethene	95	7.872	7.878	-0.006	99	317432	5.00	5.01	
69 Methylcyclohexane	83	8.189	8.195	-0.006	93	558368	5.00	5.43	
70 1,2-Dichloropropane	63	8.207	8.214	-0.007	97	308924	5.00	5.17	
71 2-ethoxy-2-methyl butane	87	8.226	8.232	-0.006	91	450720	5.00	5.01	
72 Methyl methacrylate	69	8.311	8.323	-0.012	93	101557	5.00	4.09	
74 Dibromomethane	93	8.323	8.323	0.000	97	114777	5.00	5.12	
73 1,4-Dioxane	88	8.317	8.342	-0.025	31	16855	250.0	278.5	M
76 Dichlorobromomethane	83	8.567	8.567	0.000	99	341735	5.00	5.17	
77 2-Nitropropane	41	8.829	8.835	-0.006	98	138803	25.0	21.2	
79 1-Bromo-2-chloroethane	63	8.963	8.970	-0.007	98	260837	5.00	5.06	
80 cis-1,3-Dichloropropene	75	9.134	9.140	-0.006	96	429709	5.00	5.07	
82 4-Methyl-2-pentanone (MIBK)	43	9.317	9.317	0.000	97	1252416	50.0	47.1	
\$ 83 Toluene-d8 (Surr)	98	9.463	9.457	0.006	94	1991811	10.0	10.0	
84 Toluene	92	9.542	9.543	-0.001	98	773252	5.00	4.96	
85 trans-1,3-Dichloropropene	75	9.817	9.823	-0.006	93	325015	5.00	5.34	
104 Ethyl methacrylate	69	9.890	9.896	-0.006	89	240594	5.00	5.59	
106 1,1,2-Trichloroethane	97	10.030	10.030	0.000	91	164707	5.00	4.93	
S 105 1,3-Dichloropropene, Total	100				0			10.4	
107 Tetrachloroethene	166	10.116	10.116	0.000	98	355210	5.00	4.93	
108 1,3-Dichloropropane	76	10.195	10.195	0.000	91	305862	5.00	5.08	
109 2-Hexanone	43	10.256	10.262	-0.006	98	829389	50.0	42.2	
111 Chlorodibromomethane	129	10.420	10.421	-0.001	90	221442	5.00	5.35	
112 Ethylene Dibromide	107	10.530	10.536	-0.006	98	159148	5.00	5.26	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	86	1467773	10.0	10.0	
114 1-Chlorohexane	91	10.987	10.988	-0.001	98	448562	5.00	4.67	
115 Chlorobenzene	112	10.999	11.000	-0.001	94	822690	5.00	4.95	
116 1,1,1,2-Tetrachloroethane	131	11.085	11.091	-0.006	97	280042	5.00	5.11	
117 Ethylbenzene	91	11.091	11.091	0.000	99	1522973	5.00	5.00	
119 m-Xylene & p-Xylene	106	11.213	11.213	0.000	100	1160849	10.0	10.2	
S 118 Xylenes, Total	106				0			15.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 o-Xylene	106	11.548	11.548	0.000	97	560346	5.00	5.14	
121 Styrene	104	11.560	11.567	-0.007	95	893775	5.00	5.35	
122 Bromoform	173	11.719	11.725	-0.006	97	122492	5.00	5.35	
123 Isopropylbenzene	105	11.853	11.853	0.000	96	1321148	5.00	5.02	
\$ 126 4-Bromofluorobenzene (Surr)	95	11.999	12.000	-0.001	91	726673	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.103	12.103	0.000	92	197822	5.00	5.14	
128 Bromobenzene	156	12.115	12.115	0.000	95	319438	5.00	5.04	
129 trans-1,4-Dichloro-2-butene	53	12.127	12.128	-0.001	91	486711	50.0	46.1	
130 1,2,3-Trichloropropane	110	12.146	12.146	0.000	78	49170	5.00	5.25	
131 N-Propylbenzene	91	12.188	12.189	0.000	99	1758073	5.00	5.18	
132 2-Chlorotoluene	126	12.261	12.262	-0.001	96	347917	5.00	5.15	
133 1,3,5-Trimethylbenzene	105	12.328	12.329	-0.001	94	1224047	5.00	5.15	
134 4-Chlorotoluene	126	12.353	12.359	-0.006	98	354816	5.00	5.13	
135 tert-Butylbenzene	134	12.566	12.566	0.000	93	283217	5.00	5.30	
136 Pentachloroethane	167	12.597	12.597	0.000	95	202988	5.00	5.22	
137 1,2,4-Trimethylbenzene	105	12.609	12.609	0.000	97	1235453	5.00	5.07	
138 sec-Butylbenzene	105	12.731	12.731	0.000	94	1549419	5.00	5.25	
139 1,3-Dichlorobenzene	146	12.828	12.835	-0.007	98	645894	5.00	5.17	
140 4-Isopropyltoluene	119	12.841	12.841	0.000	97	1340867	5.00	5.36	
* 141 1,4-Dichlorobenzene-d4	152	12.889	12.890	-0.001	94	782167	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.908	12.908	0.000	94	637565	5.00	4.80	
143 1,2,3-Trimethylbenzene	120	12.914	12.914	0.000	99	544501	5.00	4.92	
144 Benzyl chloride	126	12.981	12.987	-0.006	99	81539	5.00	5.33	
145 p-Diethylbenzene	119	13.115	13.115	0.000	95	791318	5.00	5.50	
146 n-Butylbenzene	92	13.139	13.140	-0.001	98	626827	5.00	5.56	
147 1,2-Dichlorobenzene	146	13.164	13.164	0.000	98	550420	5.00	5.10	
149 1,2-Dibromo-3-Chloropropane	155	13.712	13.719	-0.007	86	24721	5.00	5.04	
150 1,3,5-Trichlorobenzene	180	13.840	13.841	-0.001	98	482372	5.00	5.36	
151 1,2,4-Trichlorobenzene	180	14.261	14.261	0.000	94	380176	5.00	5.63	
152 Hexachlorobutadiene	225	14.346	14.347	-0.001	95	169599	5.00	5.24	
153 Naphthalene	128	14.444	14.444	0.000	97	580390	5.00	5.37	
154 1,2,3-Trichlorobenzene	180	14.584	14.584	0.000	96	314285	5.00	5.35	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00163	Amount Added: 5.00	Units: uL	
MSV_LL_GAS826_00264	Amount Added: 5.00	Units: uL	
MSV_LL_#2_826_00174	Amount Added: 5.00	Units: uL	
MSV_LLcentISS_00016	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 12-Apr-2025 07:05:35

Chrom Revision: 2.3 08-Apr-2025 13:07:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X18.D

Injection Date: 31-Mar-2025 17:57:30

Instrument ID: 19094

Operator ID: ecr105096

Lims ID: IC std7 5

Worklist Smp#: 19

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

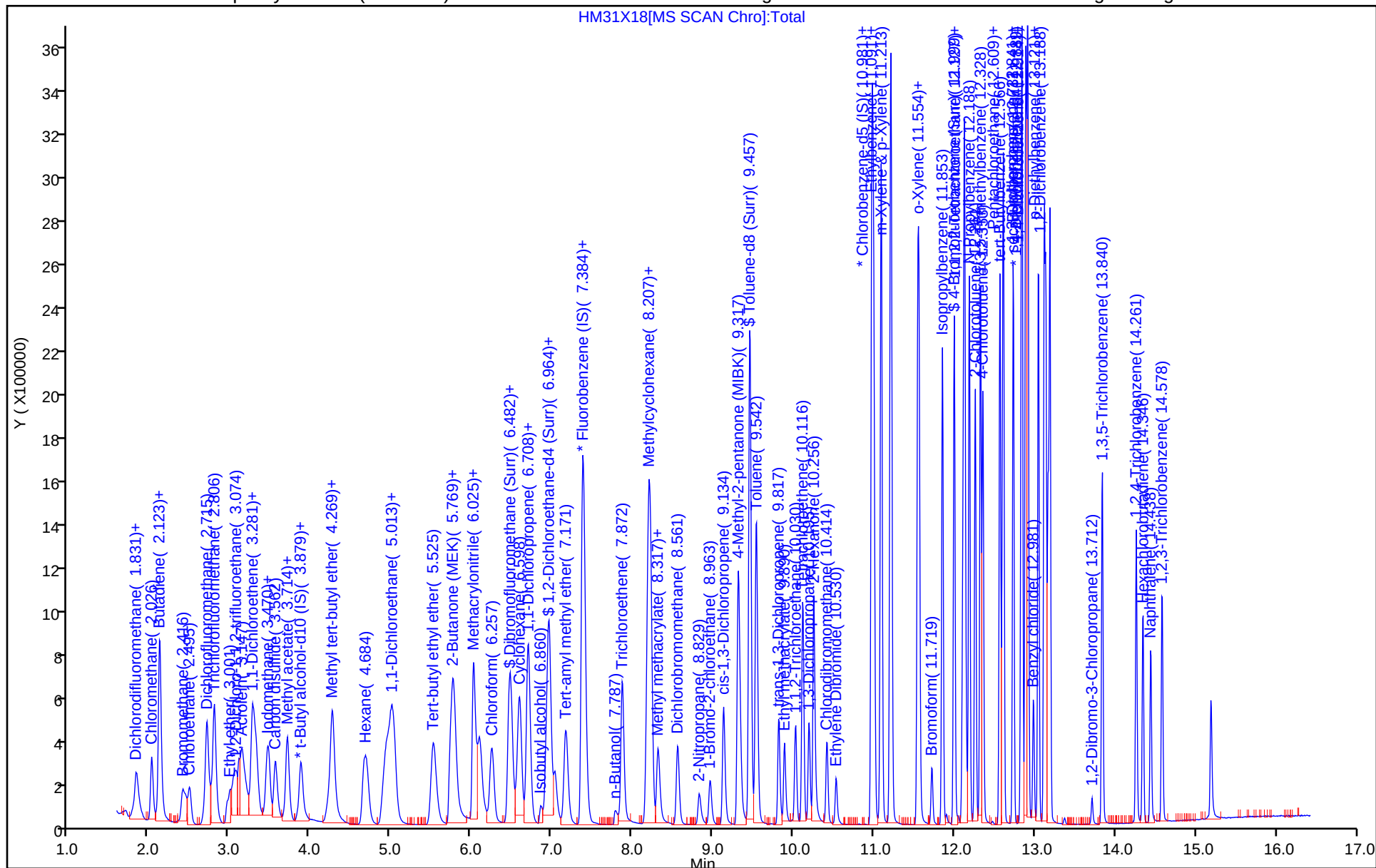
ALS Bottle#: 18

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

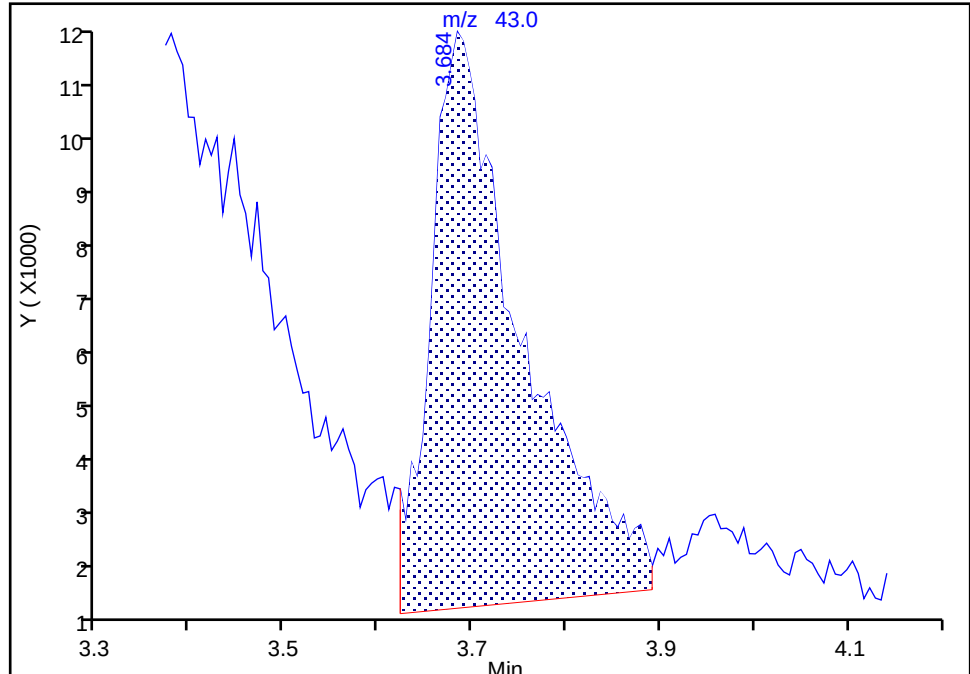
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Injection Date: 31-Mar-2025 17:57:30 Instrument ID: 19094
Lims ID: IC std7 5
Client ID:
Operator ID: ecr105096 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

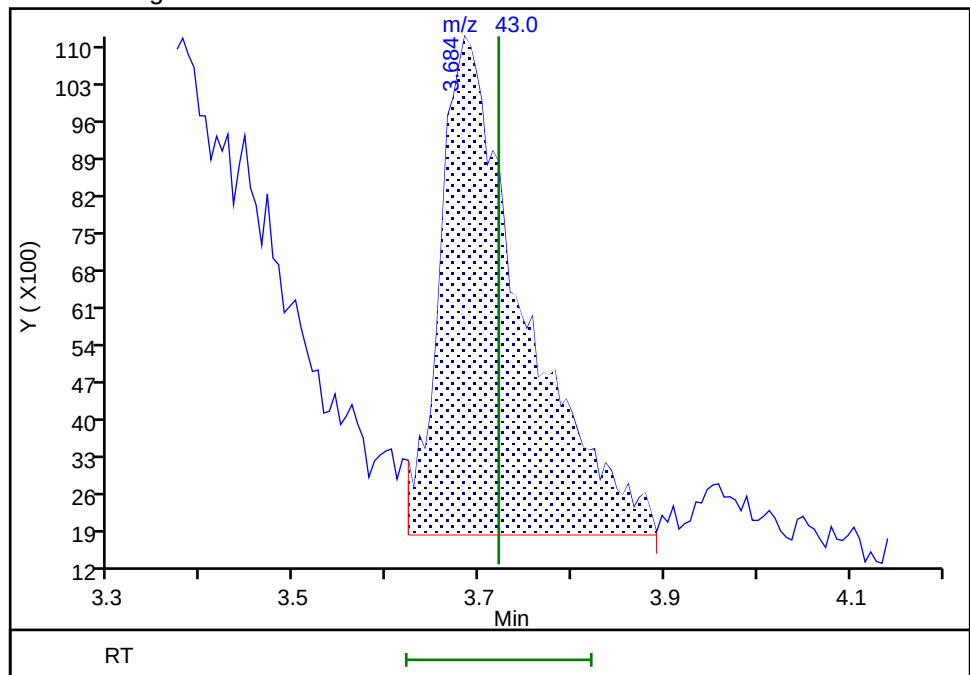
RT: 3.68
Area: 68266
Amount: 5.550812
Amount Units: ug/l

Processing Integration Results



RT: 3.68
Area: 58768
Amount: 4.297621
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:18:27 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

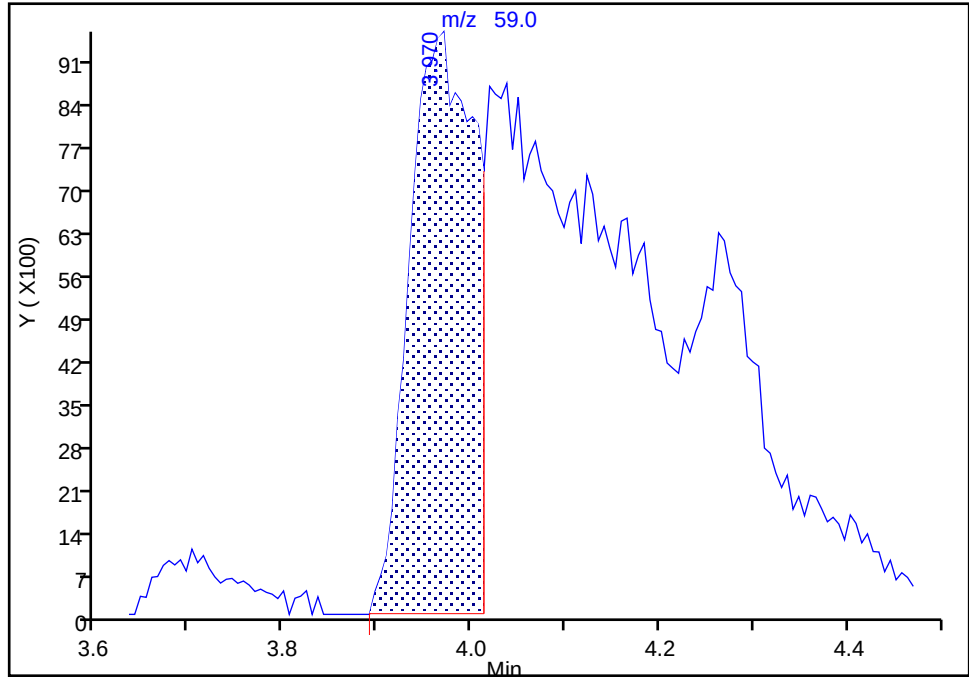
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Injection Date: 31-Mar-2025 17:57:30 Instrument ID: 19094
Lims ID: IC std7 5
Client ID:
Operator ID: ecr105096 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

29 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

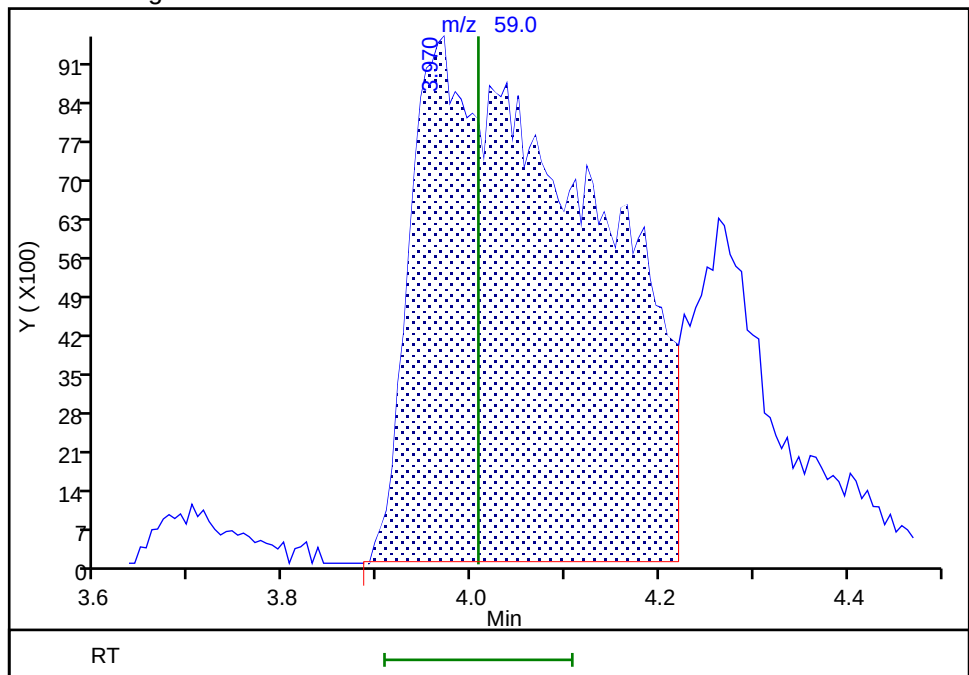
RT: 3.97
Area: 46264
Amount: 40.163434
Amount Units: ug/l

Processing Integration Results



RT: 3.97
Area: 126686
Amount: 100.0149
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 02-Apr-2025 15:26:09 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

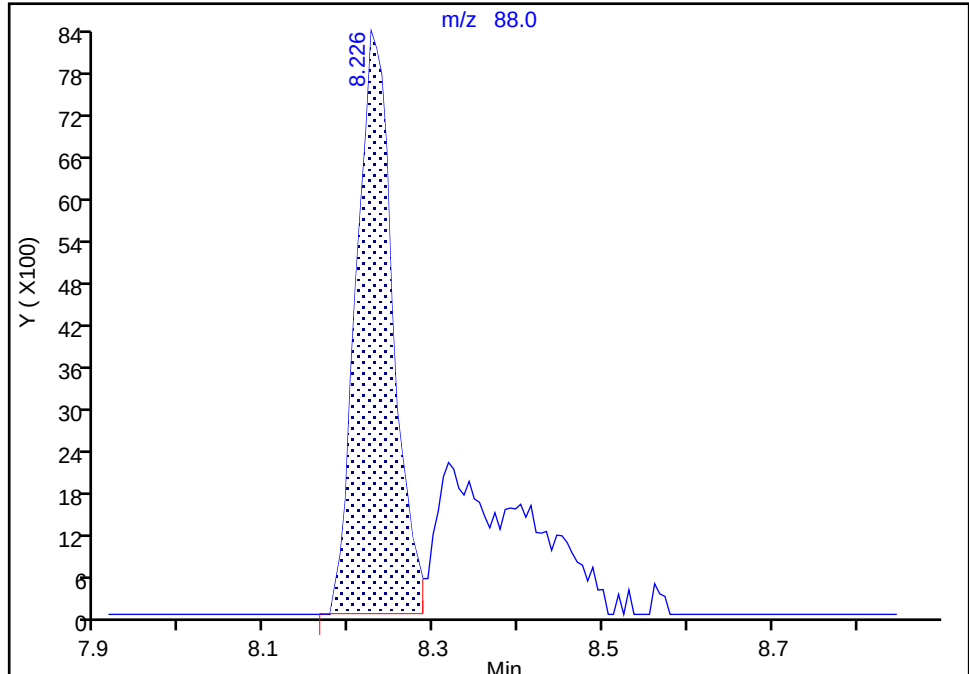
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Injection Date: 31-Mar-2025 17:57:30 Instrument ID: 19094
Lims ID: IC std7 5
Client ID:
Operator ID: ecr105096 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

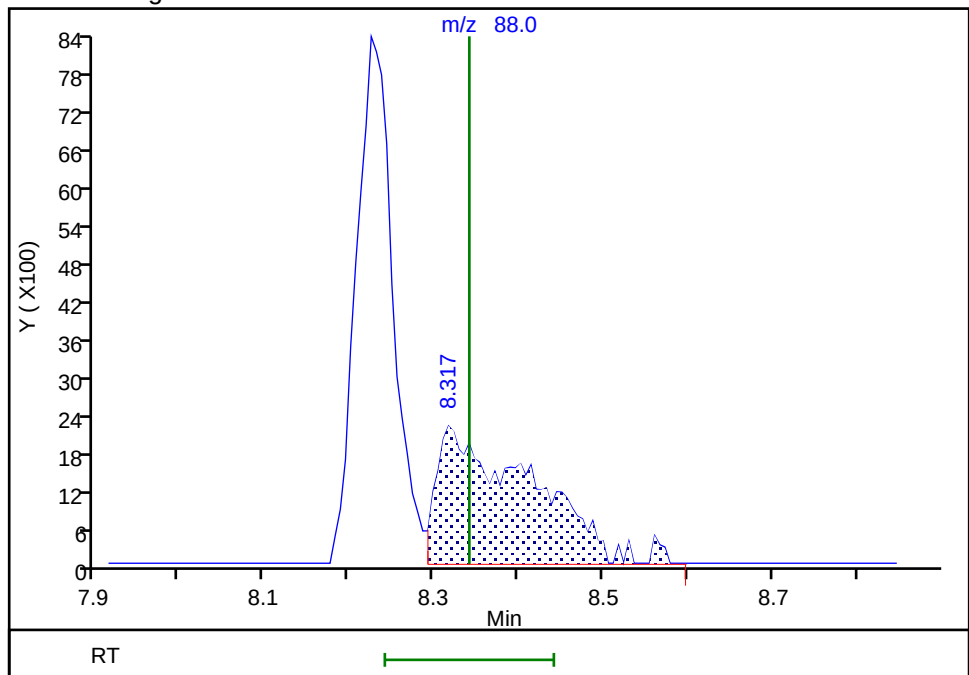
RT: 8.23
Area: 25171
Amount: 219.0979
Amount Units: ug/l

Processing Integration Results



RT: 8.32
Area: 16855
Amount: 278.4972
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:19:09 -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\19094\20250331-142485.b\HM31X19.D
 Lims ID: ICIS 10
 Client ID:
 Sample Type: ICIS Calib Level: 8
 Inject. Date: 31-Mar-2025 18:18:30 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142485-020
 Misc. Info.: IC STD8 5
 Operator ID: ecr105096 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 12-Apr-2025 07:05:48 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1648

First Level Reviewer: N7YK

Date: 01-Apr-2025 16:21:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.843	1.843	0.000	99	684822	10.0	10.0	
5 Chloromethane	50	2.032	2.032	0.000	99	825996	10.0	8.56	
7 Butadiene	39	2.129	2.129	0.000	91	838276	10.0	9.60	
6 Vinyl chloride	62	2.142	2.142	0.000	98	803735	10.0	9.56	
9 Bromomethane	94	2.422	2.422	0.000	90	539560	10.0	9.42	
10 Chloroethane	64	2.501	2.501	0.000	100	480520	10.0	10.2	
11 Dichlorofluoromethane	67	2.721	2.721	0.000	97	1258835	10.0	9.32	
12 Trichlorofluoromethane	101	2.812	2.812	0.000	52	965453	10.0	9.69	
14 Ethyl ether	59	3.001	3.001	0.000	92	356906	10.0	10.4	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.080	3.080	0.000	94	735418	10.0	9.91	
16 Acrolein	56	3.160	3.160	0.000	100	1748458	487.9	598.9	
17 1,1-Dichloroethene	96	3.288	3.288	0.000	97	474094	10.0	9.95	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.324	3.324	0.000	93	535287	10.0	10.2	
19 Acetone	43	3.312	3.312	0.000	40	301424	100.0	97.6	
21 Iodomethane	142	3.471	3.471	0.000	98	936883	10.0	10.2	
22 Ethyl bromide	108	3.495	3.495	0.000	98	453735	10.0	10.3	
23 Carbon disulfide	76	3.574	3.574	0.000	99	1442928	10.0	9.44	
24 Methyl acetate	43	3.690	3.690	0.000	97	110992	10.0	11.2	M
26 3-Chloro-1-propene	41	3.721	3.721	0.000	93	934273	10.0	9.39	
* 28 t-Butyl alcohol-d10 (IS)	65	3.910	3.910	0.000	28	42040	50.0	50.0	
27 Methylene Chloride	84	3.885	3.885	0.000	94	506569	10.0	10.1	
29 2-Methyl-2-propanol	59	4.019	4.019	0.000	95	179047	200.0	208.9	
32 Methyl tert-butyl ether	73	4.269	4.269	0.000	96	1039257	10.0	9.38	
33 trans-1,2-Dichloroethene	96	4.281	4.281	0.000	99	552036	10.0	10.3	
31 Acrylonitrile	53	4.221	4.221	0.000	98	135115	25.0	26.1	M
34 Hexane	57	4.696	4.696	0.000	92	832592	10.0	10.3	
36 1,1-Dichloroethane	63	4.928	4.928	0.000	96	1082044	10.0	10.1	
37 Isopropyl ether	45	4.989	4.989	0.000	95	1869370	10.0	10.2	
38 2-Chloro-1,3-butadiene	53	5.037	5.037	0.000	91	951627	10.0	10.2	
40 Tert-butyl ethyl ether	59	5.537	5.537	0.000	99	1582202	10.0	9.69	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.732	5.732	0.000	100	747791	100.0	128.2	
42 cis-1,2-Dichloroethene	96	5.769	5.769	0.000	83	624945	10.0	9.82	
43 2,2-Dichloropropane	77	5.787	5.787	0.000	87	906807	10.0	10.2	
44 Propionitrile	54	5.836	5.836	0.000	99	320549	200.0	231.5	
47 Methacrylonitrile	67	6.031	6.031	0.000	92	939001	100.0	112.9	
48 Chlorobromomethane	128	6.098	6.098	0.000	97	225958	10.0	10.3	
49 Tetrahydrofuran	71	6.123	6.123	0.000	81	113415	50.0	55.4	
50 Chloroform	83	6.257	6.257	0.000	93	1004861	10.0	10.1	
\$ 52 Dibromofluoromethane (Surr)	113	6.476	6.476	0.000	93	442094	10.0	9.90	
53 1,1,1-Trichloroethane	97	6.494	6.494	0.000	99	914274	10.0	10.2	
54 Cyclohexane	56	6.598	6.598	0.000	91	1082353	10.0	10.4	
55 1,1-Dichloropropene	75	6.708	6.708	0.000	97	872697	10.0	10.1	
56 Carbon tetrachloride	117	6.714	6.714	0.000	96	820643	10.0	10.3	
57 Isobutyl alcohol	41	6.866	6.866	0.000	95	159298	500.0	553.9	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.933	6.933	0.000	83	78187	10.0	9.89	
59 Benzene	78	6.970	6.970	0.000	96	2473254	10.0	10.0	
60 1,2-Dichloroethane	62	7.043	7.043	0.000	97	517655	10.0	10.0	
63 Tert-amyl methyl ether	73	7.177	7.177	0.000	98	1260937	10.0	9.65	
* 64 Fluorobenzene (IS)	96	7.385	7.385	0.000	99	2055680	10.0	10.0	
65 n-Heptane	43	7.409	7.409	0.000	92	816417	10.0	10.7	
67 n-Butanol	56	7.793	7.793	0.000	89	179700	875.0	853.3	
68 Trichloroethene	95	7.878	7.878	0.000	99	641479	10.0	10.2	
69 Methylcyclohexane	83	8.195	8.195	0.000	93	1101781	10.0	10.8	
70 1,2-Dichloropropane	63	8.208	8.208	0.000	87	620370	10.0	10.4	
71 2-ethoxy-2-methyl butane	87	8.232	8.232	0.000	92	916075	10.0	10.2	
72 Methyl methacrylate	69	8.311	8.311	0.000	90	206061	10.0	11.6	
74 Dibromomethane	93	8.323	8.323	0.000	96	228407	10.0	10.2	
73 1,4-Dioxane	88	8.329	8.329	0.000	28	21492	500.0	524.9	M
76 Dichlorobromomethane	83	8.561	8.561	0.000	99	691544	10.0	10.5	
77 2-Nitropropane	41	8.835	8.835	0.000	98	245985	50.0	55.5	
79 1-Bromo-2-chloroethane	63	8.963	8.963	0.000	99	534769	10.0	10.4	
80 cis-1,3-Dichloropropene	75	9.134	9.134	0.000	96	871613	10.0	10.3	
82 4-Methyl-2-pentanone (MIBK)	43	9.317	9.317	0.000	97	2286851	100.0	127.1	
\$ 83 Toluene-d8 (Surr)	98	9.463	9.463	0.000	93	1991289	10.0	10.1	
84 Toluene	92	9.543	9.543	0.000	98	1550629	10.0	10.0	
85 trans-1,3-Dichloropropene	75	9.817	9.817	0.000	93	662842	10.0	11.0	
104 Ethyl methacrylate	69	9.890	9.890	0.000	90	473893	10.0	11.1	
106 1,1,2-Trichloroethane	97	10.030	10.030	0.000	91	327008	10.0	9.85	
107 Tetrachloroethene	166	10.116	10.116	0.000	98	714372	10.0	9.97	
108 1,3-Dichloropropane	76	10.195	10.195	0.000	90	608829	10.0	10.2	
109 2-Hexanone	43	10.250	10.250	0.000	97	1523596	100.0	111.7	
111 Chlorodibromomethane	129	10.414	10.414	0.000	90	440242	10.0	10.7	
112 Ethylene Dibromide	107	10.530	10.530	0.000	99	311584	10.0	10.4	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	86	1458607	10.0	10.0	
114 1-Chlorohexane	91	10.987	10.987	0.000	98	907212	10.0	9.50	
115 Chlorobenzene	112	11.000	11.000	0.000	94	1655938	10.0	10.0	
116 1,1,1,2-Tetrachloroethane	131	11.091	11.091	0.000	96	562207	10.0	10.3	
117 Ethylbenzene	91	11.091	11.091	0.000	99	3108222	10.0	10.3	
119 m-Xylene & p-Xylene	106	11.213	11.213	0.000	100	2362025	20.0	20.8	
120 o-Xylene	106	11.548	11.548	0.000	97	1134829	10.0	10.5	
121 Styrene	104	11.561	11.561	0.000	94	1825564	10.0	11.0	
122 Bromoform	173	11.719	11.719	0.000	98	241935	10.0	10.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
123 Isopropylbenzene	105	11.853	11.853	0.000	96	2710322	10.0	10.4	
\$ 126 4-Bromofluorobenzene (Surr)	95	11.999	11.999	0.000	91	718905	10.0	9.95	
127 1,1,2,2-Tetrachloroethane	83	12.103	12.103	0.000	92	373408	10.0	9.59	
128 Bromobenzene	156	12.115	12.115	0.000	95	644886	10.0	10.0	
129 trans-1,4-Dichloro-2-butene	53	12.128	12.128	0.000	90	927237	100.0	129.9	
130 1,2,3-Trichloropropane	110	12.146	12.146	0.000	79	90244	10.0	9.52	
131 N-Propylbenzene	91	12.188	12.188	0.000	99	3623808	10.0	10.6	
132 2-Chlorotoluene	126	12.262	12.262	0.000	96	699144	10.0	10.2	
133 1,3,5-Trimethylbenzene	105	12.323	12.323	0.000	94	2532050	10.0	10.5	
134 4-Chlorotoluene	126	12.353	12.353	0.000	98	716408	10.0	10.2	
135 tert-Butylbenzene	134	12.566	12.566	0.000	93	578253	10.0	10.7	
136 Pentachloroethane	167	12.597	12.597	0.000	92	429014	10.0	10.9	
137 1,2,4-Trimethylbenzene	105	12.609	12.609	0.000	97	2570379	10.0	10.4	
138 sec-Butylbenzene	105	12.731	12.731	0.000	94	3208232	10.0	10.7	
139 1,3-Dichlorobenzene	146	12.829	12.829	0.000	98	1313952	10.0	10.4	
140 4-Isopropyltoluene	119	12.841	12.841	0.000	97	2789673	10.0	11.0	
* 141 1,4-Dichlorobenzene-d4	152	12.890	12.890	0.000	94	791747	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.908	12.908	0.000	93	1302458	10.0	9.69	
143 1,2,3-Trimethylbenzene	120	12.914	12.914	0.000	99	1113366	10.0	9.93	
144 Benzyl chloride	126	12.981	12.981	0.000	99	155958	10.0	10.1	
145 p-Diethylbenzene	119	13.115	13.115	0.000	94	1655484	10.0	11.4	
146 n-Butylbenzene	92	13.133	13.133	0.000	97	1328334	10.0	11.6	
147 1,2-Dichlorobenzene	146	13.164	13.164	0.000	98	1119367	10.0	10.3	
149 1,2-Dibromo-3-Chloropropane	155	13.713	13.713	0.000	87	44187	10.0	8.82	
150 1,3,5-Trichlorobenzene	180	13.841	13.841	0.000	98	1011421	10.0	11.1	
151 1,2,4-Trichlorobenzene	180	14.261	14.261	0.000	94	792689	10.0	11.6	
152 Hexachlorobutadiene	225	14.347	14.347	0.000	96	362428	10.0	11.1	
153 Naphthalene	128	14.438	14.438	0.000	97	1124483	10.0	10.3	
154 1,2,3-Trichlorobenzene	180	14.584	14.584	0.000	96	646826	10.0	10.9	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00163	Amount Added: 10.00	Units: uL	
MSV_LL_GAS826_00264	Amount Added: 10.00	Units: uL	
MSV_LL_#2_826_00174	Amount Added: 10.00	Units: uL	
MSV_LLcentISS_00016	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 12-Apr-2025 07:05:48

Chrom Revision: 2.3 08-Apr-2025 13:07:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X19.D

Injection Date: 31-Mar-2025 18:18:30

Instrument ID: 19094

Operator ID: ecr105096

Lims ID: ICIS 10

Worklist Smp#: 20

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

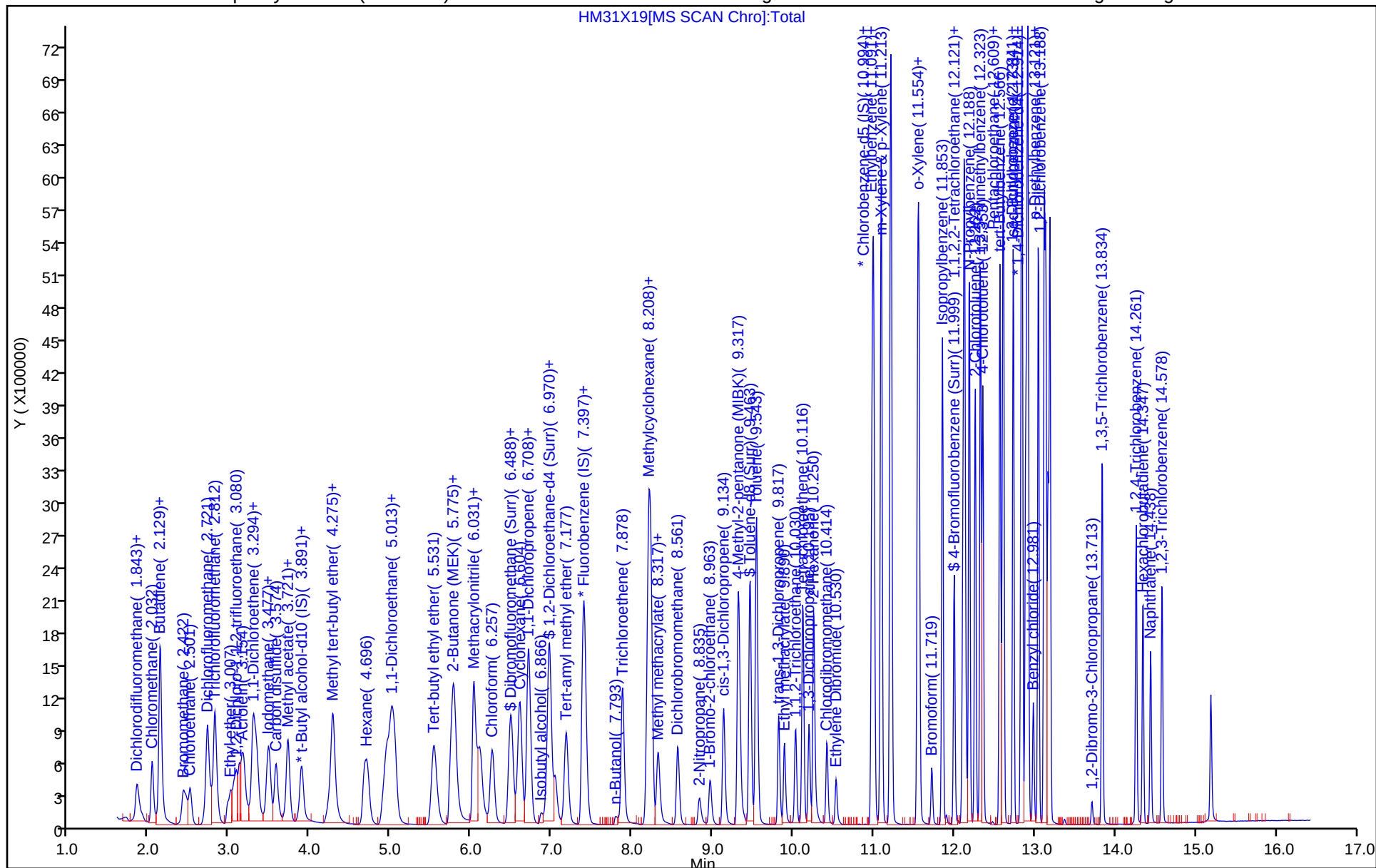
ALS Bottle#: 19

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

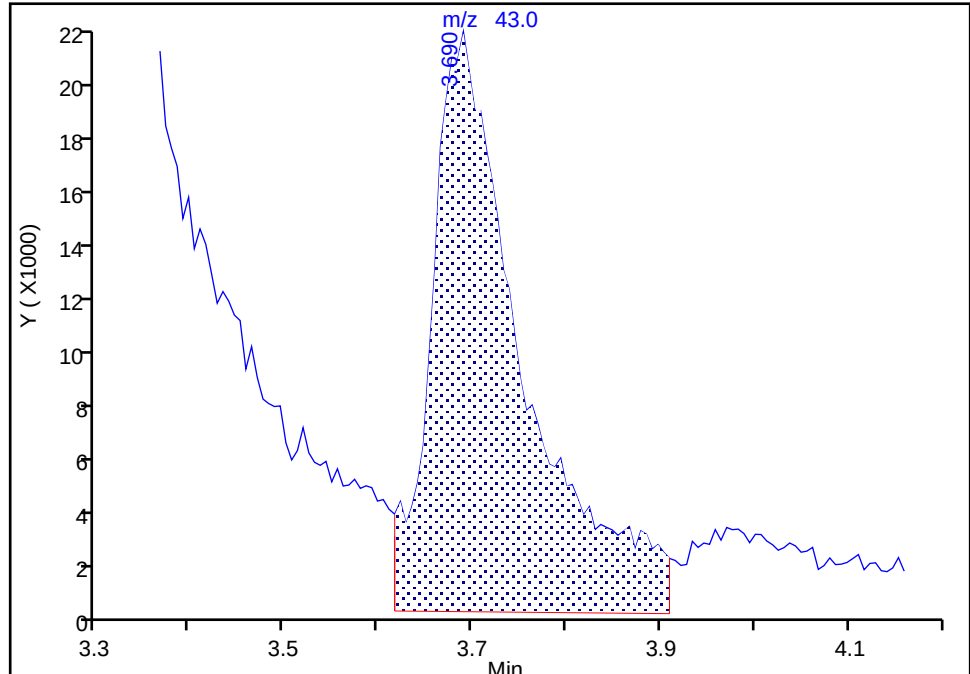
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Injection Date: 31-Mar-2025 18:18:30 Instrument ID: 19094
Lims ID: ICIS 10
Client ID:
Operator ID: ecr105096 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

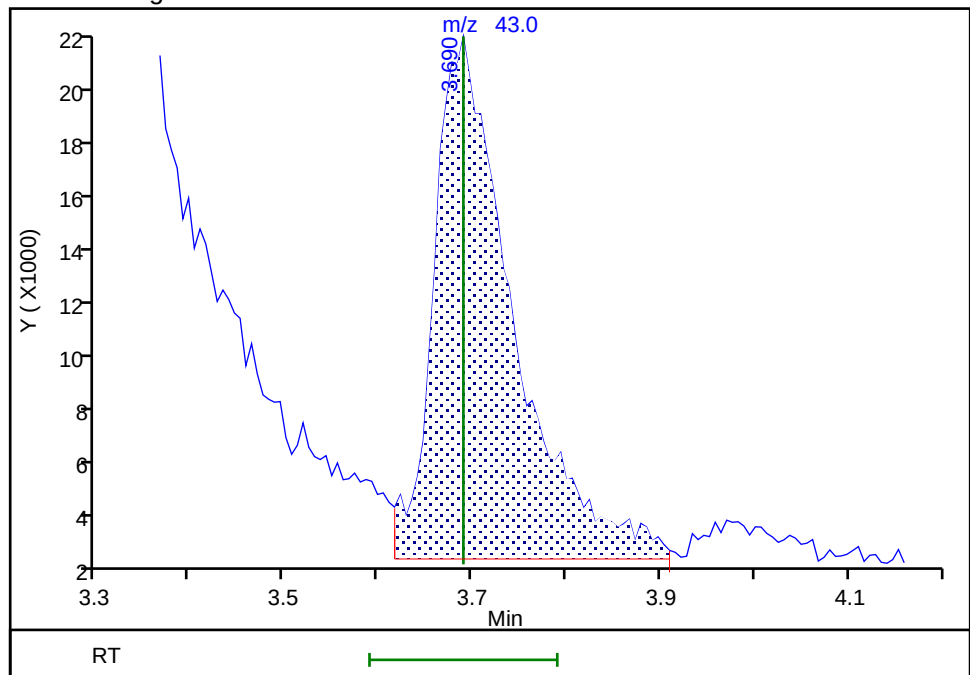
RT: 3.69
Area: 140386
Amount: 17.252290
Amount Units: ug/l

Processing Integration Results



RT: 3.69
Area: 110992
Amount: 11.177177
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:20:09 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

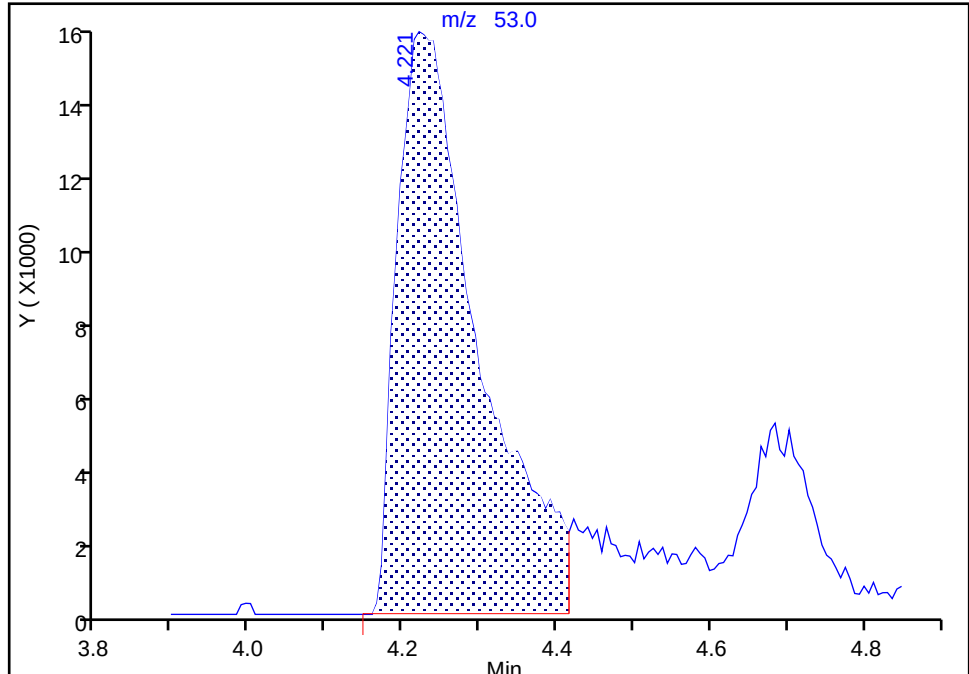
Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X19.D
Injection Date: 31-Mar-2025 18:18:30 Instrument ID: 19094
Lims ID: ICIS 10
Client ID:
Operator ID: ecr105096 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

31 Acrylonitrile, CAS: 107-13-1

Signal: 1

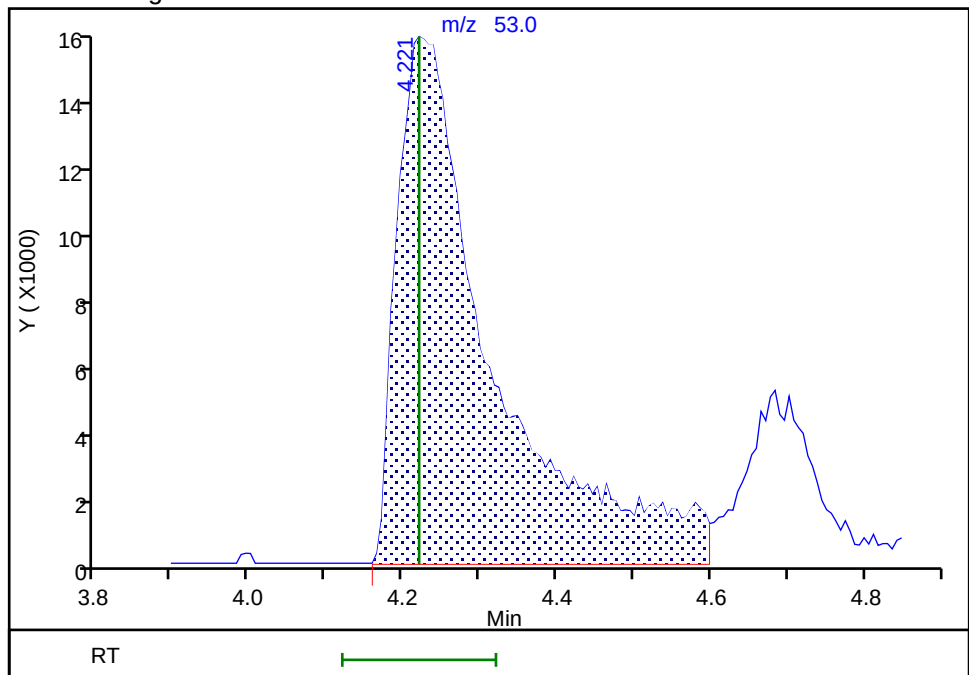
RT: 4.22
Area: 115739
Amount: 29.920761
Amount Units: ug/l

Processing Integration Results



RT: 4.22
Area: 135115
Amount: 26.115333
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 11-Apr-2025 09:53:38 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Environment Testing, LLC

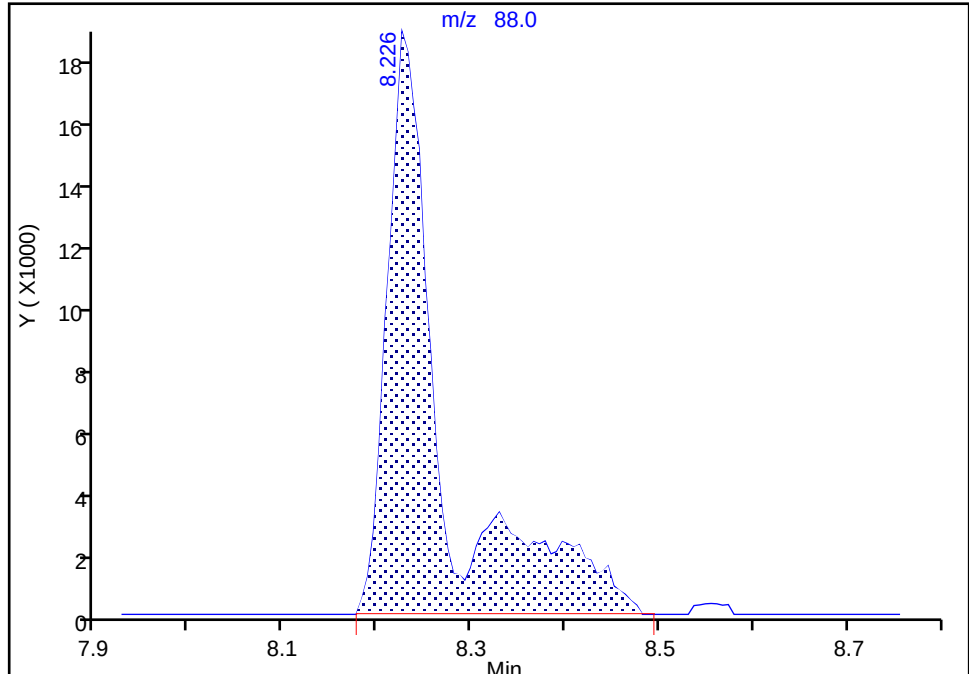
Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X19.D
Injection Date: 31-Mar-2025 18:18:30 Instrument ID: 19094
Lims ID: ICIS 10
Client ID:
Operator ID: ecr105096 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

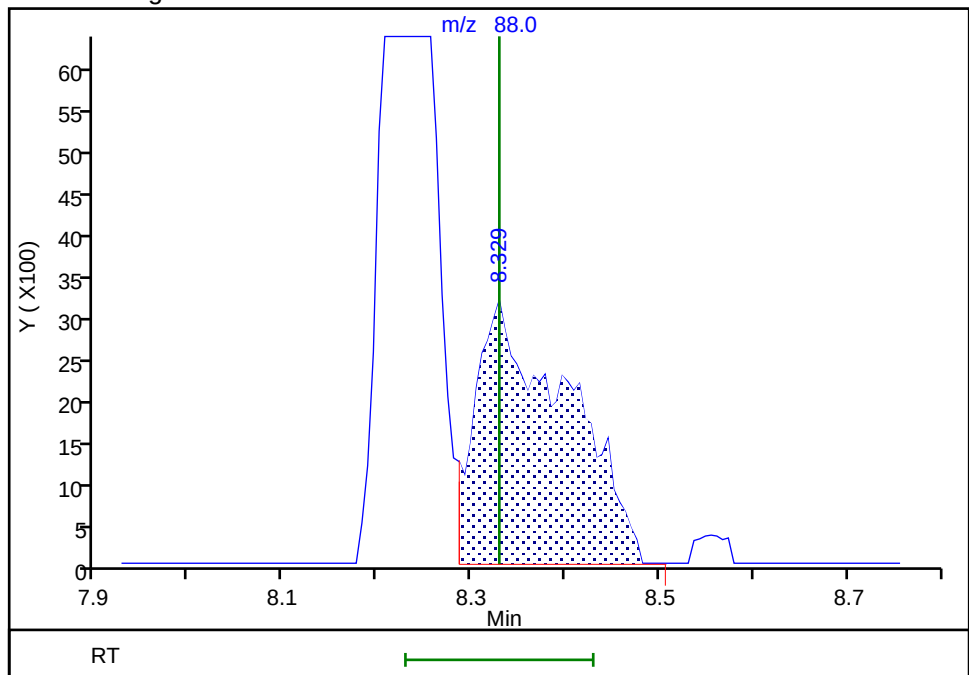
RT: 8.23
Area: 72886
Amount: 983.5787
Amount Units: ug/l

Processing Integration Results



RT: 8.33
Area: 21492
Amount: 524.8674
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:20:51 -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\19094\20250331-142485.b\HM31X20.D
 Lims ID: IC std9 25
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 31-Mar-2025 18:38:30 ALS Bottle#: 20 Worklist Smp#: 21
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142485-021
 Misc. Info.: IC STD9 25
 Operator ID: ecr105096 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 12-Apr-2025 07:06:01 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1648

First Level Reviewer: UKEK

Date: 12-Apr-2025 06:58:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.843	1.843	0.000	99	1816726	25.0	25.7	
5 Chloromethane	50	2.032	2.032	0.000	99	2161862	25.0	21.7	
7 Butadiene	39	2.129	2.129	0.000	92	2160964	25.0	23.9	
6 Vinyl chloride	62	2.142	2.142	0.000	98	2159447	25.0	24.8	
9 Bromomethane	94	2.422	2.422	0.000	90	1425463	25.0	24.1	
10 Chloroethane	64	2.507	2.501	0.006	100	1243904	25.0	25.4	
11 Dichlorofluoromethane	67	2.721	2.721	0.000	97	3282329	25.0	23.5	
12 Trichlorofluoromethane	101	2.812	2.812	0.000	98	2568839	25.0	24.9	
14 Ethyl ether	59	3.001	3.001	0.000	92	919504	25.0	25.9	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.081	3.080	0.000	94	1970457	25.0	25.7	
16 Acrolein	56	3.154	3.160	-0.006	99	4249542	1219.8	1145.3	
17 1,1-Dichloroethene	96	3.288	3.288	0.000	98	1242808	25.0	25.2	
19 Acetone	43	3.306	3.312	-0.006	44	915437	250.0	233.2	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.330	3.324	0.006	94	1401381	25.0	25.8	
21 Iodomethane	142	3.465	3.471	-0.006	98	2390067	25.0	25.3	
22 Ethyl bromide	108	3.489	3.495	-0.006	98	1140749	25.0	24.9	
23 Carbon disulfide	76	3.574	3.574	0.000	99	3773894	25.0	23.9	
24 Methyl acetate	43	3.684	3.690	-0.006	96	318970	25.0	24.7	M
26 3-Chloro-1-propene	41	3.721	3.721	0.000	93	2405398	25.0	23.4	
27 Methylene Chloride	84	3.885	3.885	0.000	94	1283561	25.0	24.8	M
* 28 t-Butyl alcohol-d10 (IS)	65	3.879	3.910	-0.031	29	53430	50.0	50.0	
29 2-Methyl-2-propanol	59	4.013	4.019	-0.006	98	500668	500.0	459.7	
31 Acrylonitrile	53	4.208	4.221	-0.012	98	425436	62.5	62.4	M
32 Methyl tert-butyl ether	73	4.269	4.269	0.000	95	2750917	25.0	24.0	
33 trans-1,2-Dichloroethene	96	4.275	4.281	-0.006	98	1431144	25.0	25.9	
34 Hexane	57	4.690	4.696	-0.006	92	2179243	25.0	26.2	
36 1,1-Dichloroethane	63	4.928	4.928	0.000	96	2774130	25.0	25.2	
37 Isopropyl ether	45	4.995	4.989	0.006	95	4873821	25.0	25.6	
38 2-Chloro-1,3-butadiene	53	5.037	5.037	0.000	91	2506048	25.0	25.9	
40 Tert-butyl ethyl ether	59	5.537	5.537	0.000	98	4113367	25.0	24.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.726	5.732	-0.006	100	2189644	250.0	295.4	
42 cis-1,2-Dichloroethene	96	5.769	5.769	0.000	83	1604222	25.0	24.4	
43 2,2-Dichloropropane	77	5.787	5.787	0.000	90	2378090	25.0	25.9	
44 Propionitrile	54	5.806	5.836	-0.030	99	1068421	500.0	607.2	
47 Methacrylonitrile	67	6.025	6.031	-0.006	92	2639198	250.0	246.5	
48 Chlorobromomethane	128	6.104	6.098	0.006	97	583204	25.0	25.8	
49 Tetrahydrofuran	71	6.116	6.123	-0.007	86	326622	125.0	124.6	
S 46 1,2-Dichloroethene, Total	100				0			50.3	
50 Chloroform	83	6.257	6.257	0.000	93	2626503	25.0	25.5	
\$ 52 Dibromofluoromethane (Surr)	113	6.476	6.476	0.000	94	459135	10.0	9.95	
53 1,1,1-Trichloroethane	97	6.501	6.494	0.007	99	2392335	25.0	25.7	
54 Cyclohexane	56	6.604	6.598	0.006	91	2838389	25.0	26.4	
55 1,1-Dichloropropene	75	6.708	6.708	0.000	98	2327796	25.0	26.2	
56 Carbon tetrachloride	117	6.714	6.714	0.000	97	2193314	25.0	26.5	
57 Isobutyl alcohol	41	6.866	6.866	0.000	95	494957	1250.0	1354.1	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.933	6.933	0.000	94	80434	10.0	9.84	
59 Benzene	78	6.970	6.970	0.000	96	6433627	25.0	25.2	
60 1,2-Dichloroethane	62	7.043	7.043	0.000	97	1367284	25.0	25.5	
63 Tert-amyl methyl ether	73	7.177	7.177	0.000	98	3362992	25.0	24.9	
* 64 Fluorobenzene (IS)	96	7.385	7.385	0.000	99	2125436	10.0	10.0	
65 n-Heptane	43	7.409	7.409	0.000	93	2181076	25.0	27.6	
67 n-Butanol	56	7.775	7.793	-0.018	89	593492	2187.5	2189.4	
68 Trichloroethene	95	7.878	7.878	0.000	99	1665996	25.0	25.5	
69 Methylcyclohexane	83	8.195	8.195	0.000	93	2928143	25.0	27.7	
70 1,2-Dichloropropane	63	8.208	8.208	0.000	98	1633980	25.0	26.6	
71 2-ethoxy-2-methyl butane	87	8.232	8.232	0.000	92	2419820	25.0	26.1	
72 Methyl methacrylate	69	8.305	8.311	-0.006	91	560851	25.0	24.6	
74 Dibromomethane	93	8.323	8.323	0.000	96	609917	25.0	26.4	
73 1,4-Dioxane	88	8.329	8.329	0.000	28	63092	1250.0	1212.3	M
76 Dichlorobromomethane	83	8.561	8.561	0.000	99	1820151	25.0	26.8	
77 2-Nitropropane	41	8.829	8.835	-0.006	98	717809	125.0	127.3	
79 1-Bromo-2-chloroethane	63	8.964	8.963	0.001	98	1371435	25.0	25.9	
80 cis-1,3-Dichloropropene	75	9.134	9.134	0.000	96	2290634	25.0	26.2	
82 4-Methyl-2-pentanone (MIBK)	43	9.317	9.317	0.000	97	6500745	250.0	284.3	
\$ 83 Toluene-d8 (Surr)	98	9.463	9.463	0.000	93	2049064	10.0	10.0	
84 Toluene	92	9.543	9.543	0.000	98	4060259	25.0	25.3	
85 trans-1,3-Dichloropropene	75	9.817	9.817	0.000	93	1766910	25.0	28.2	
104 Ethyl methacrylate	69	9.884	9.890	-0.006	90	1281420	25.0	28.9	
106 1,1,2-Trichloroethane	97	10.030	10.030	0.000	90	870847	25.0	25.3	
S 105 1,3-Dichloropropene, Total	100				0			54.5	
107 Tetrachloroethene	166	10.116	10.116	0.000	98	1877143	25.0	25.3	
108 1,3-Dichloropropane	76	10.195	10.195	0.000	90	1597825	25.0	25.8	
109 2-Hexanone	43	10.250	10.250	0.000	97	4366466	250.0	249.9	
111 Chlorodibromomethane	129	10.414	10.414	0.000	90	1181335	25.0	27.7	
112 Ethylene Dibromide	107	10.530	10.530	0.000	99	831238	25.0	26.7	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	85	1510883	10.0	10.0	
114 1-Chlorohexane	91	10.988	10.987	0.001	98	2375866	25.0	24.0	
115 Chlorobenzene	112	11.000	11.000	0.000	96	4337493	25.0	25.3	
116 1,1,1,2-Tetrachloroethane	131	11.091	11.091	0.000	96	1516707	25.0	26.9	
117 Ethylbenzene	91	11.091	11.091	0.000	98	8193836	25.0	26.1	
119 m-Xylene & p-Xylene	106	11.213	11.213	0.000	100	6248331	50.0	53.2	
S 118 Xylenes, Total	106				0			79.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 o-Xylene	106	11.548	11.548	0.000	97	2985695	25.0	26.6	
121 Styrene	104	11.561	11.561	0.000	95	4814851	25.0	28.0	
122 Bromoform	173	11.719	11.719	0.000	98	668052	25.0	28.3	
123 Isopropylbenzene	105	11.853	11.853	0.000	96	7082025	25.0	26.1	
\$ 126 4-Bromofluorobenzene (Surr)	95	11.999	11.999	0.000	91	752933	10.0	10.1	
127 1,1,2,2-Tetrachloroethane	83	12.103	12.103	0.000	92	1038664	25.0	25.4	
128 Bromobenzene	156	12.109	12.115	-0.006	95	1714753	25.0	25.5	
129 trans-1,4-Dichloro-2-butene	53	12.128	12.128	0.000	89	2646536	250.0	291.8	
130 1,2,3-Trichloropropane	110	12.146	12.146	0.000	79	255060	25.0	25.7	
131 N-Propylbenzene	91	12.188	12.188	0.000	99	9592666	25.0	26.7	
132 2-Chlorotoluene	126	12.262	12.262	0.000	96	1881131	25.0	26.2	
133 1,3,5-Trimethylbenzene	105	12.329	12.323	0.006	94	6774756	25.0	26.8	
134 4-Chlorotoluene	126	12.353	12.353	0.000	98	1908151	25.0	26.0	
135 tert-Butylbenzene	134	12.566	12.566	0.000	93	1538331	25.0	27.1	
136 Pentachloroethane	167	12.597	12.597	0.000	95	1151466	25.0	27.9	
137 1,2,4-Trimethylbenzene	105	12.609	12.609	0.000	98	6908702	25.0	26.7	
138 sec-Butylbenzene	105	12.731	12.731	0.000	96	8520663	25.0	27.2	
139 1,3-Dichlorobenzene	146	12.829	12.829	0.000	98	3570672	25.0	27.0	
140 4-Isopropyltoluene	119	12.841	12.841	0.000	97	7509078	25.0	28.3	
* 141 1,4-Dichlorobenzene-d4	152	12.890	12.890	0.000	94	829879	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.908	12.908	0.000	94	3514732	25.0	25.0	
143 1,2,3-Trimethylbenzene	120	12.914	12.914	0.000	99	2990137	25.0	25.4	
144 Benzyl chloride	126	12.981	12.981	0.000	99	442180	25.0	27.2	
145 p-Diethylbenzene	119	13.115	13.115	0.000	95	4513158	25.0	29.6	
146 n-Butylbenzene	92	13.133	13.133	0.000	97	3639340	25.0	30.4	
147 1,2-Dichlorobenzene	146	13.164	13.164	0.000	98	3049079	25.0	26.6	
149 1,2-Dibromo-3-Chloropropane	155	13.713	13.713	0.000	96	134066	25.0	25.3	
150 1,3,5-Trichlorobenzene	180	13.841	13.841	0.000	98	2769597	25.0	29.0	
151 1,2,4-Trichlorobenzene	180	14.261	14.261	0.000	94	2174379	25.0	30.4	
152 Hexachlorobutadiene	225	14.347	14.347	0.000	95	1030024	25.0	30.0	
153 Naphthalene	128	14.438	14.438	0.000	97	3134737	25.0	27.3	
154 1,2,3-Trichlorobenzene	180	14.578	14.584	-0.006	95	1756332	25.0	28.2	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00163

Amount Added: 25.00

Units: uL

MSV_LL_GAS826_00264

Amount Added: 25.00

Units: uL

MSV_LL_#2_826_00174

Amount Added: 25.00

Units: uL

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 12-Apr-2025 07:06:01

Chrom Revision: 2.3 08-Apr-2025 13:07:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D

Injection Date: 31-Mar-2025 18:38:30

Instrument ID: 19094

Operator ID: ecr105096

Lims ID: IC std9 25

Worklist Smp#: 21

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

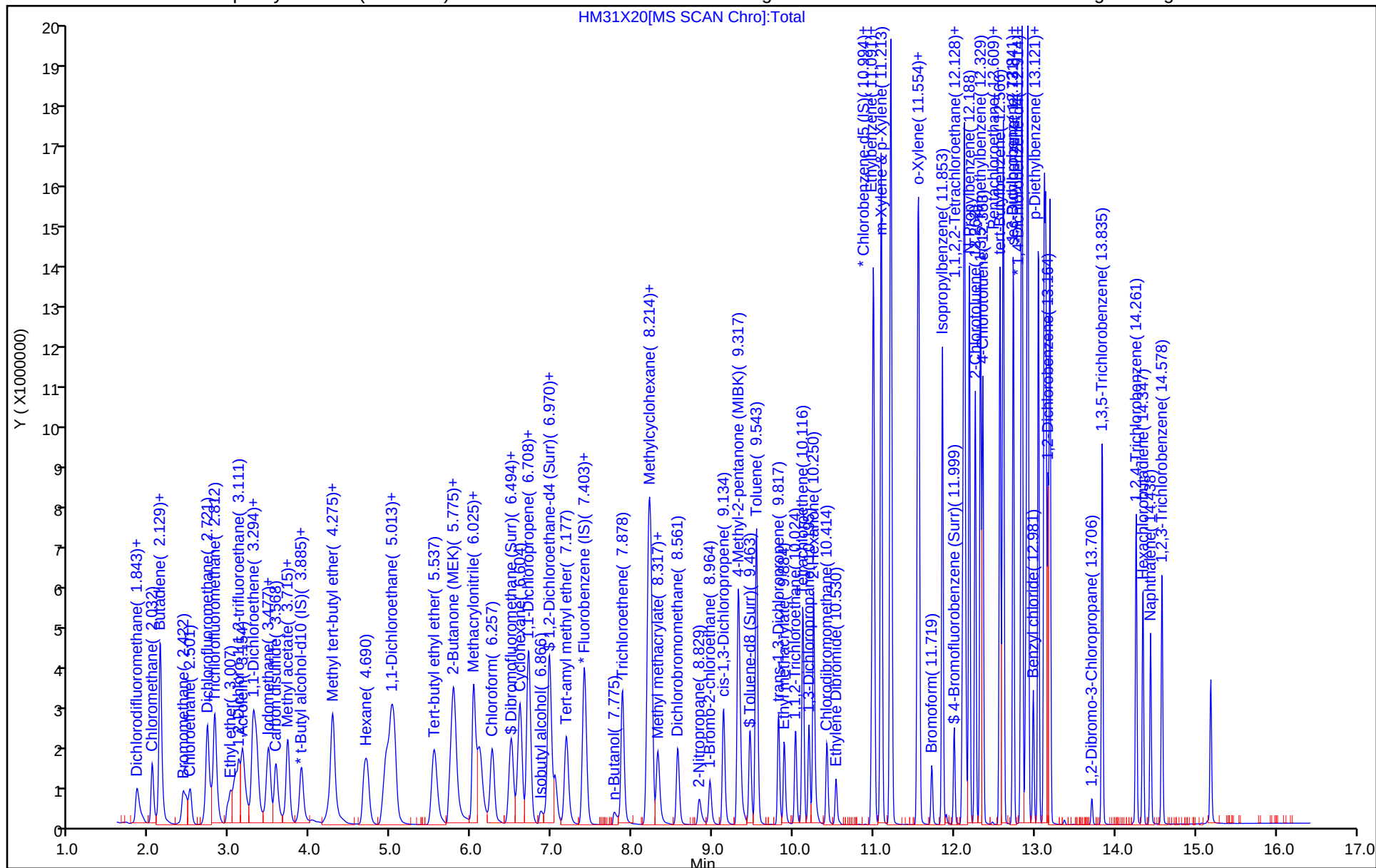
ALS Bottle#: 20

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

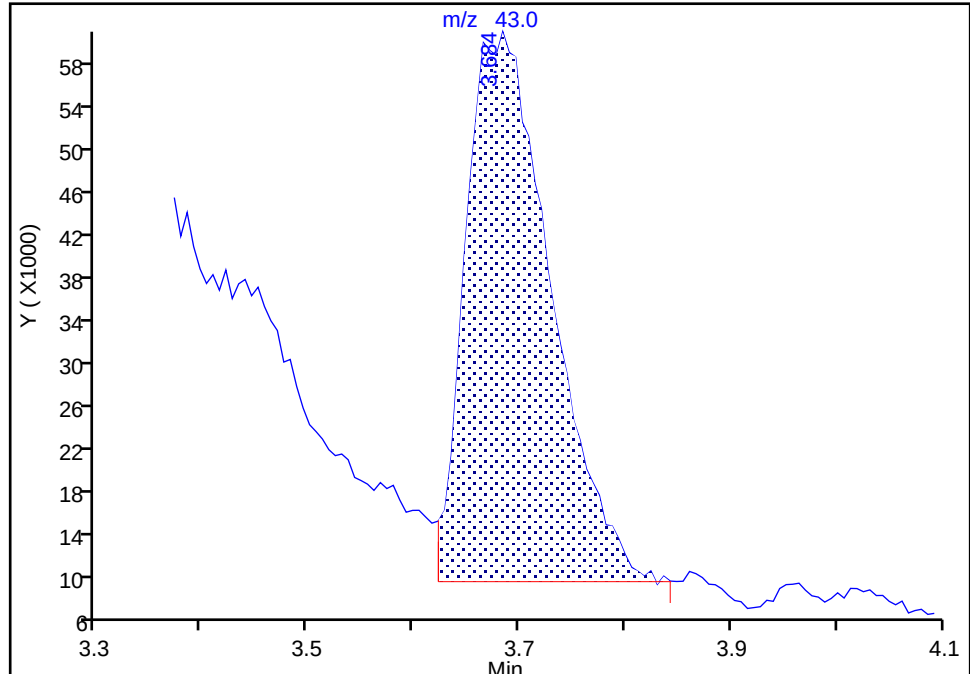
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Injection Date: 31-Mar-2025 18:38:30 Instrument ID: 19094
Lims ID: IC std9 25
Client ID:
Operator ID: ecr105096 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

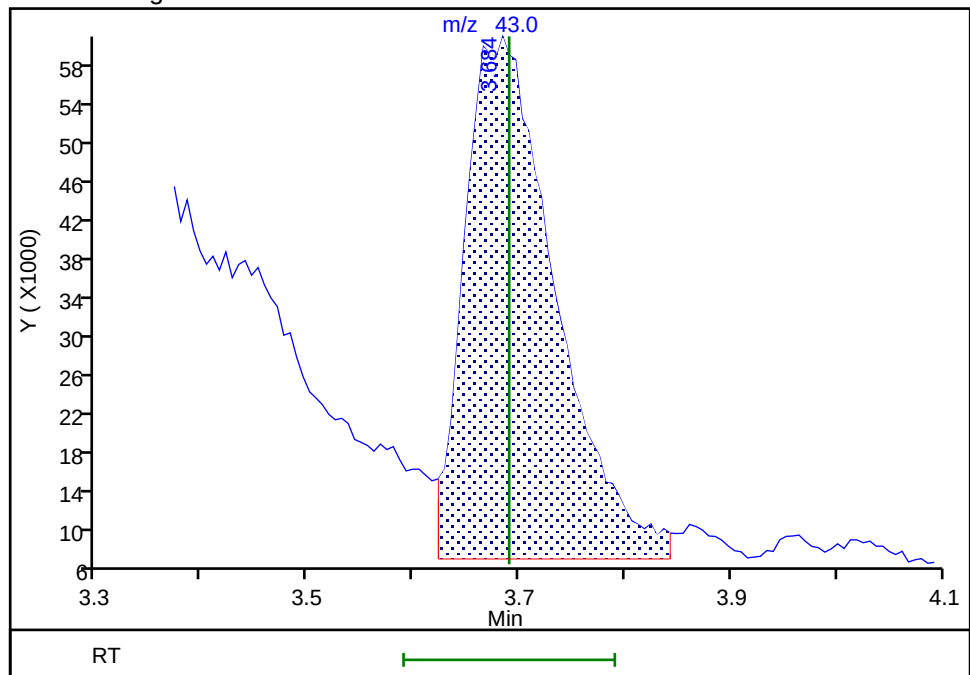
RT: 3.68
Area: 282412
Amount: 28.793465
Amount Units: ug/l

Processing Integration Results



RT: 3.68
Area: 318970
Amount: 24.696744
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 10-Apr-2025 10:10:04 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

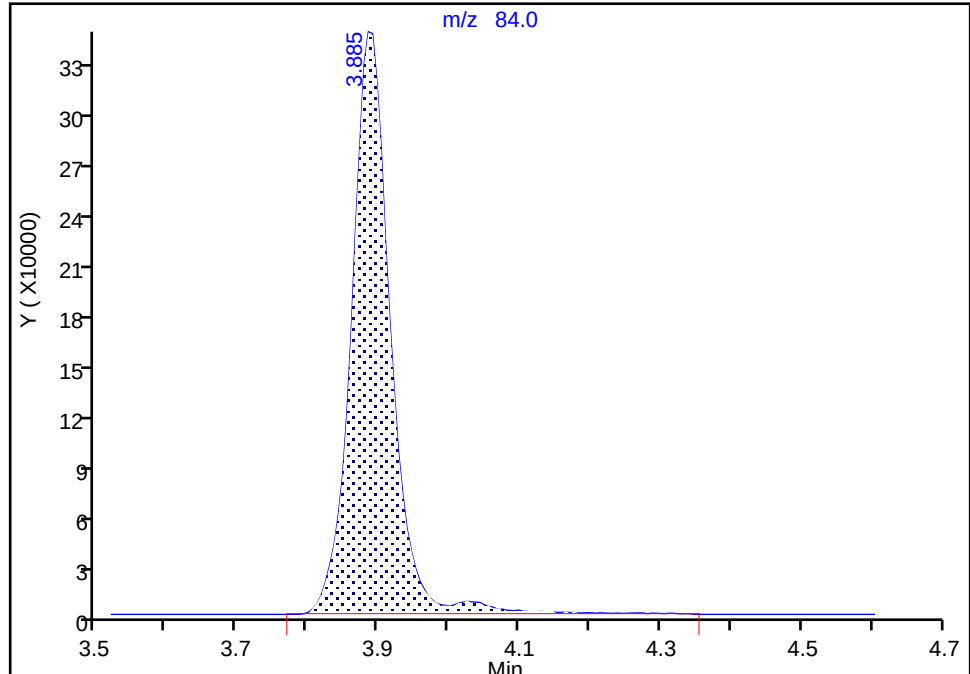
Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
Injection Date: 31-Mar-2025 18:38:30 Instrument ID: 19094
Lims ID: IC std9 25
Client ID:
Operator ID: ecr105096 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

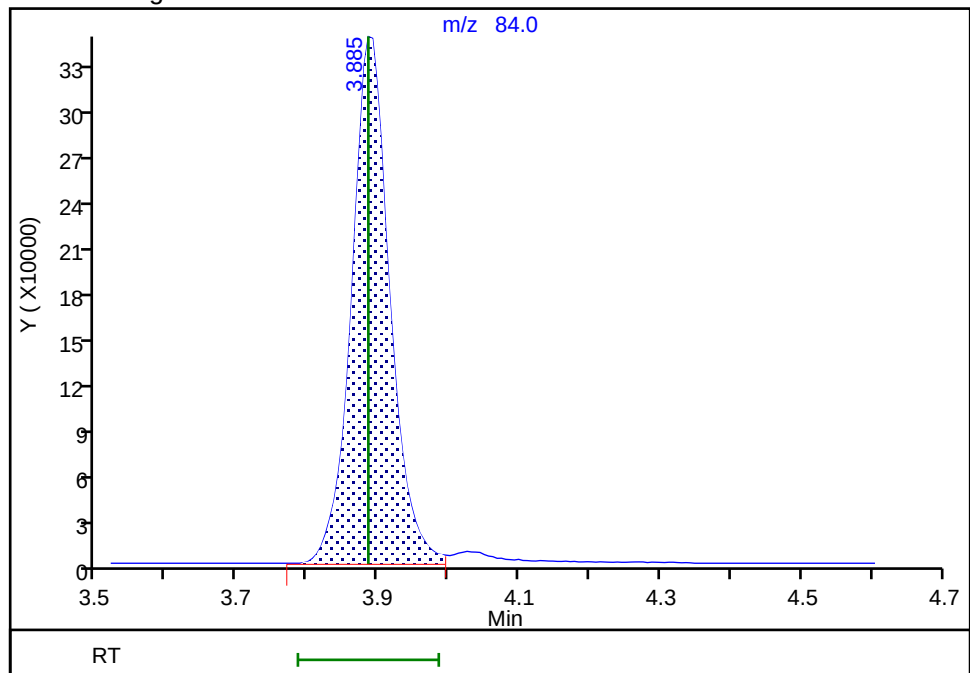
RT: 3.89
Area: 1327734
Amount: 25.538548
Amount Units: ug/l

Processing Integration Results



RT: 3.89
Area: 1283561
Amount: 24.782478
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 11-Apr-2025 09:37:15 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Other

Eurofins Lancaster Laboratories Environment Testing, LLC

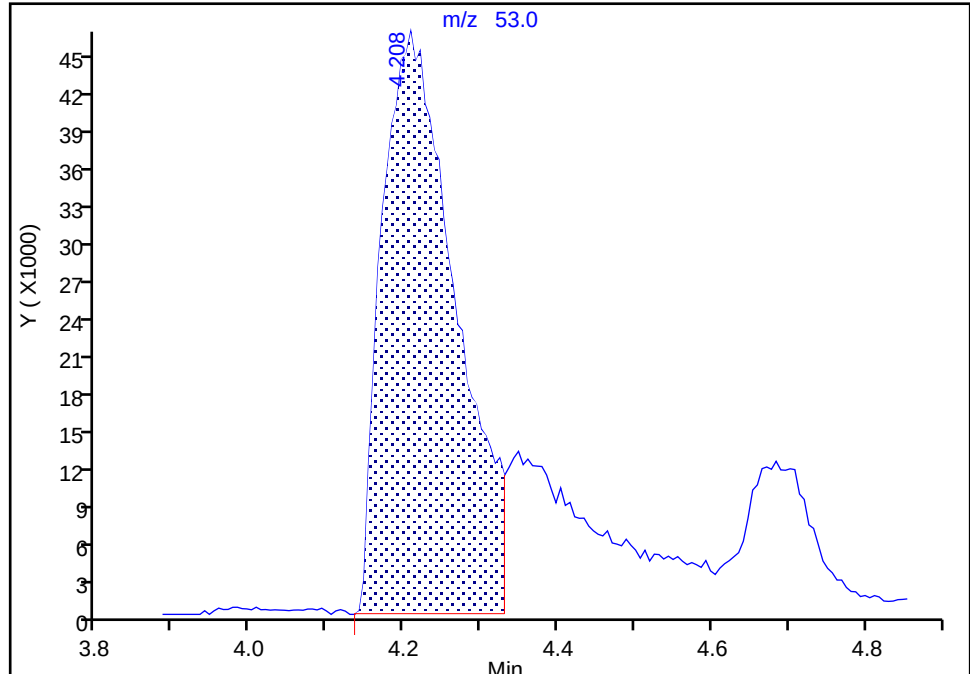
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Injection Date: 31-Mar-2025 18:38:30 Instrument ID: 19094
Lims ID: IC std9 25
Client ID:
Operator ID: ecr105096 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

31 Acrylonitrile, CAS: 107-13-1

Signal: 1

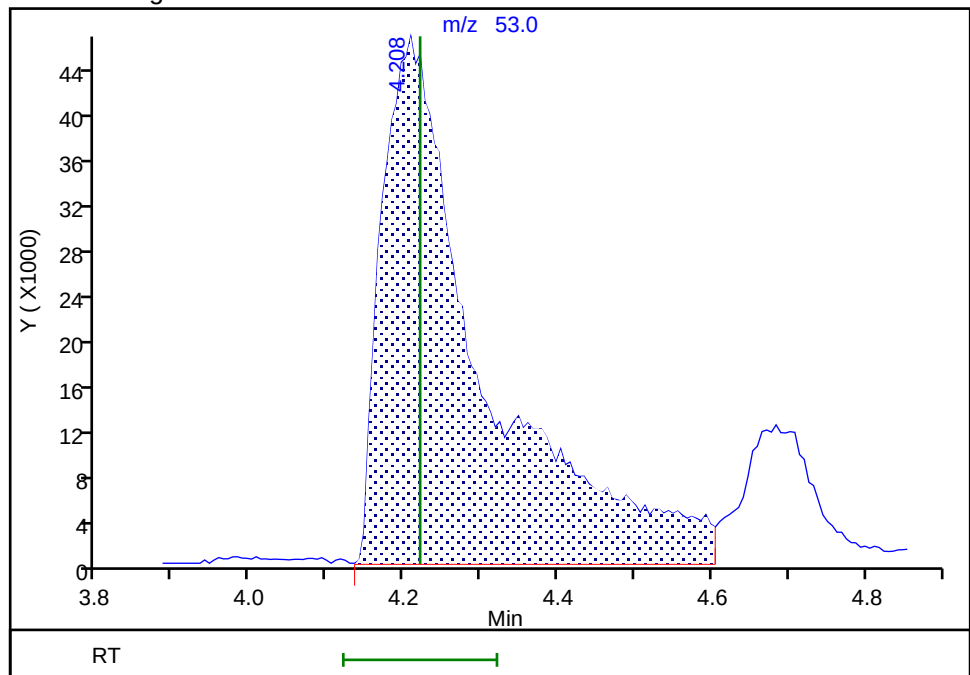
RT: 4.21
Area: 310007
Amount: 61.212227
Amount Units: ug/l

Processing Integration Results



RT: 4.21
Area: 425436
Amount: 62.415090
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 11-Apr-2025 09:56:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Environment Testing, LLC

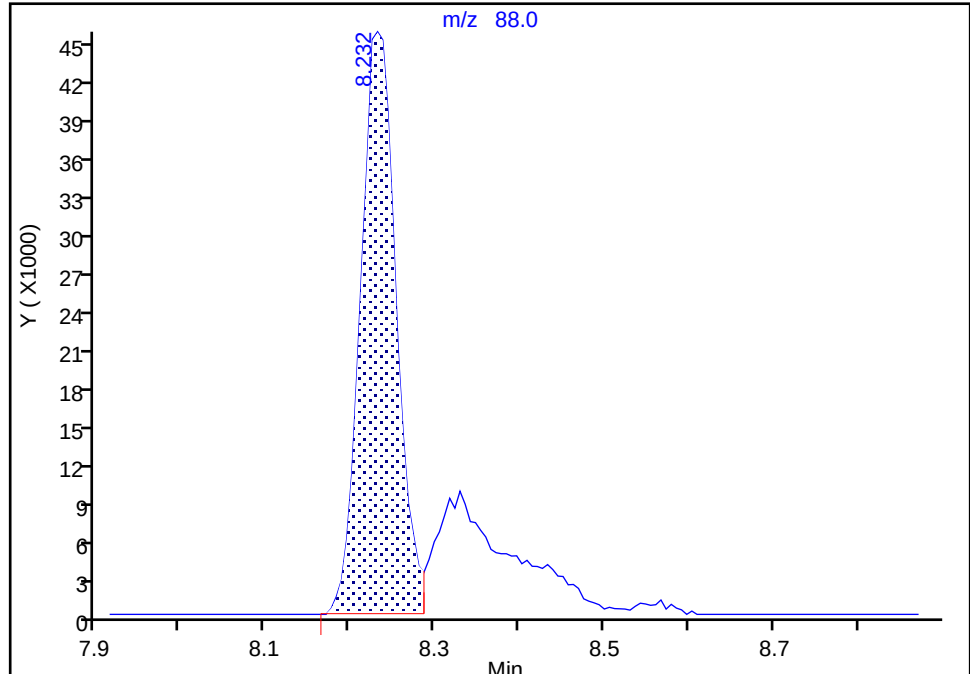
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Injection Date: 31-Mar-2025 18:38:30 Instrument ID: 19094
Lims ID: IC std9 25
Client ID:
Operator ID: ecr105096 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

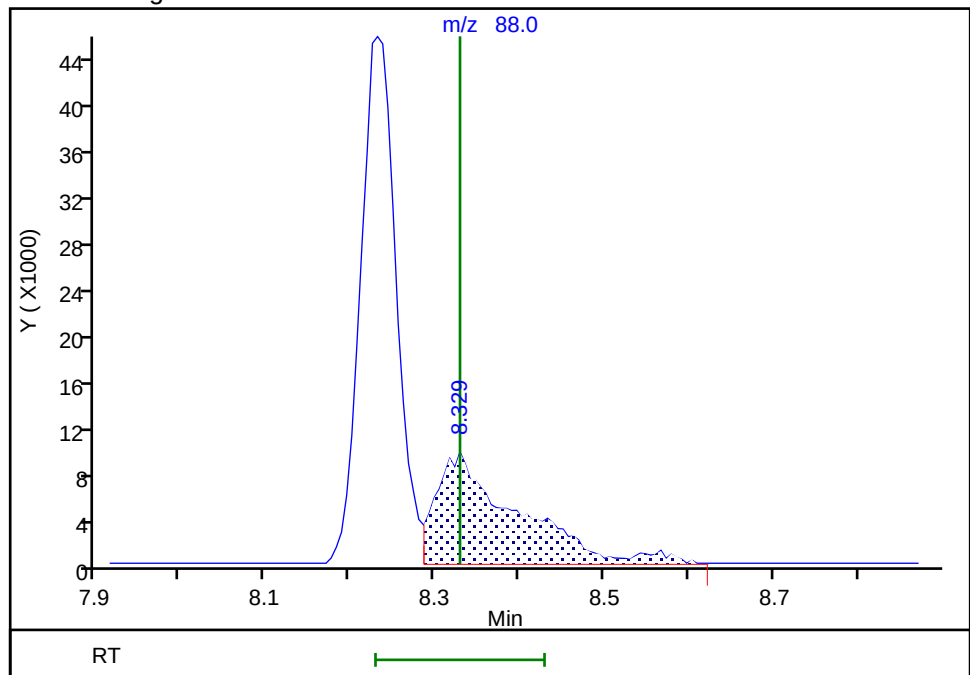
RT: 8.23
Area: 134547
Amount: 2043.1077
Amount Units: ug/l

Processing Integration Results



RT: 8.33
Area: 63092
Amount: 1212.3404
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:22:39 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Calibration

/ Dichlorodifluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

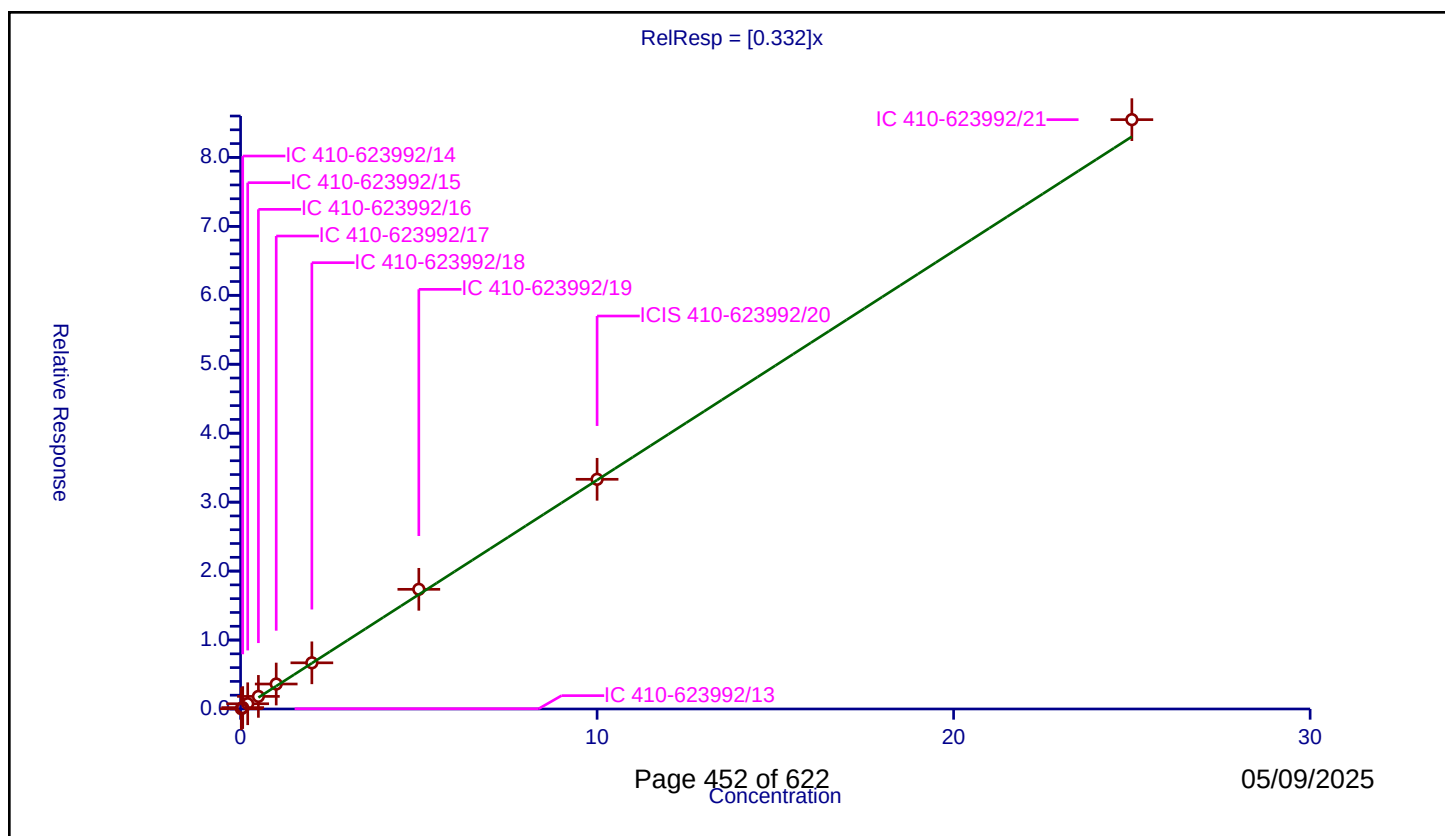
Curve Coefficients

Intercept: 0
Slope: 0.332

Error Coefficients

Relative Standard Deviation: 17.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.003706	10.0	1964341.0	0.185304	Y
2	IC 410-623992/14	0.06	0.020306	10.0	1965958.0	0.338427	Y
3	IC 410-623992/15	0.2	0.075972	10.0	2020747.0	0.37986	Y
4	IC 410-623992/16	0.5	0.182732	10.0	2019903.0	0.365463	Y
5	IC 410-623992/17	1.0	0.362253	10.0	2009620.0	0.362253	Y
6	IC 410-623992/18	2.0	0.669691	10.0	2036656.0	0.334845	Y
7	IC 410-623992/19	5.0	1.735646	10.0	2063762.0	0.347129	Y
8	ICIS 410-623992/20	10.0	3.331365	10.0	2055680.0	0.333136	Y
9	IC 410-623992/21	25.0	8.547545	10.0	2125436.0	0.341902	Y



Calibration

/ Chloromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

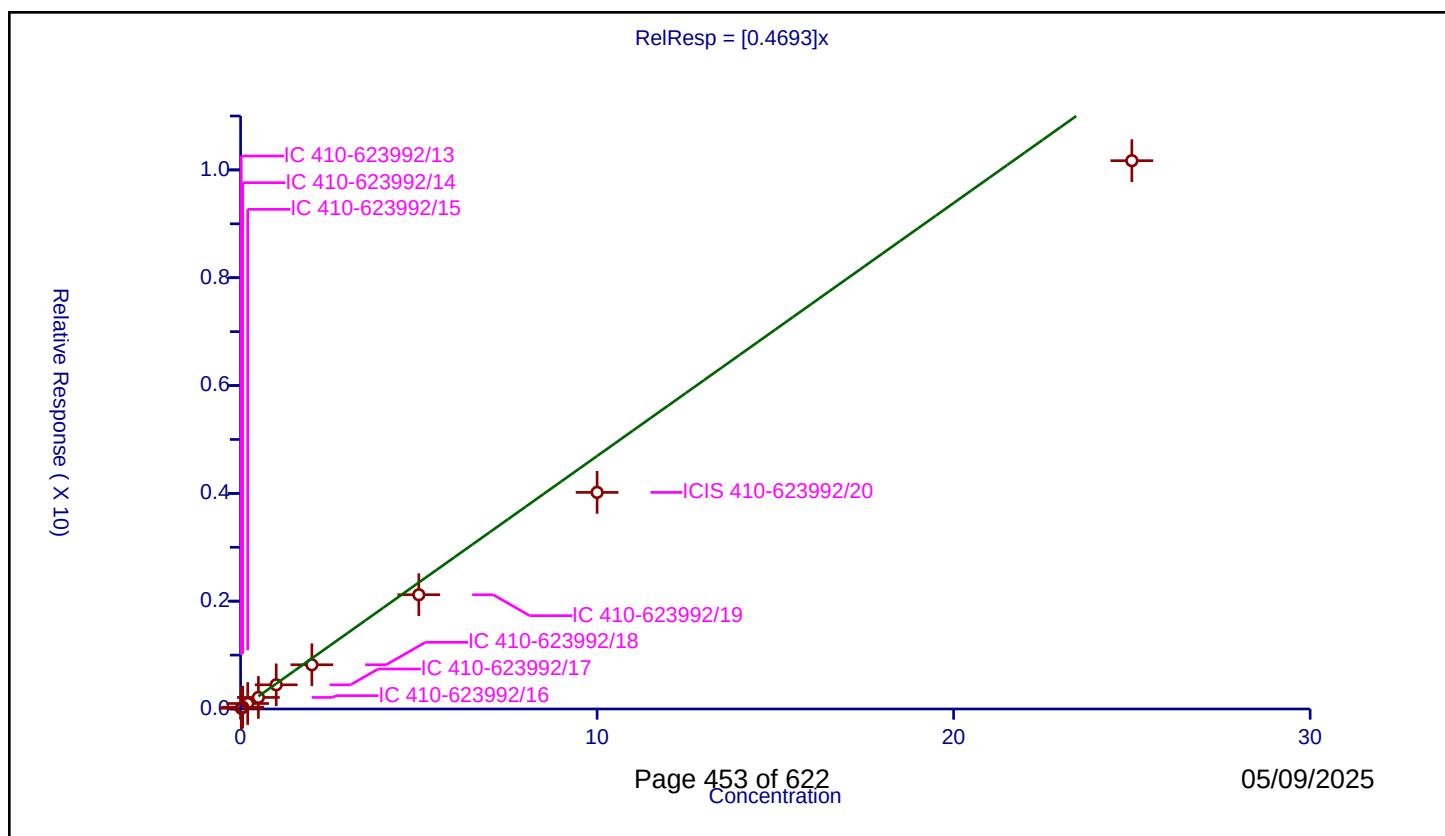
Curve Coefficients

Intercept: 0
Slope: 0.4693

Error Coefficients

Relative Standard Deviation: 17.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.012605	10.0	1964341.0	0.630237	Y
2	IC 410-623992/14	0.06	0.033963	10.0	1965958.0	0.566051	Y
3	IC 410-623992/15	0.2	0.101428	10.0	2020747.0	0.507139	Y
4	IC 410-623992/16	0.5	0.214416	10.0	2019903.0	0.428832	Y
5	IC 410-623992/17	1.0	0.448388	10.0	2009620.0	0.448388	Y
6	IC 410-623992/18	2.0	0.820325	10.0	2036656.0	0.410163	Y
7	IC 410-623992/19	5.0	2.119503	10.0	2063762.0	0.423901	Y
8	ICIS 410-623992/20	10.0	4.018116	10.0	2055680.0	0.401812	Y
9	IC 410-623992/21	25.0	10.171381	10.0	2125436.0	0.406855	Y



Calibration

/ Butadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

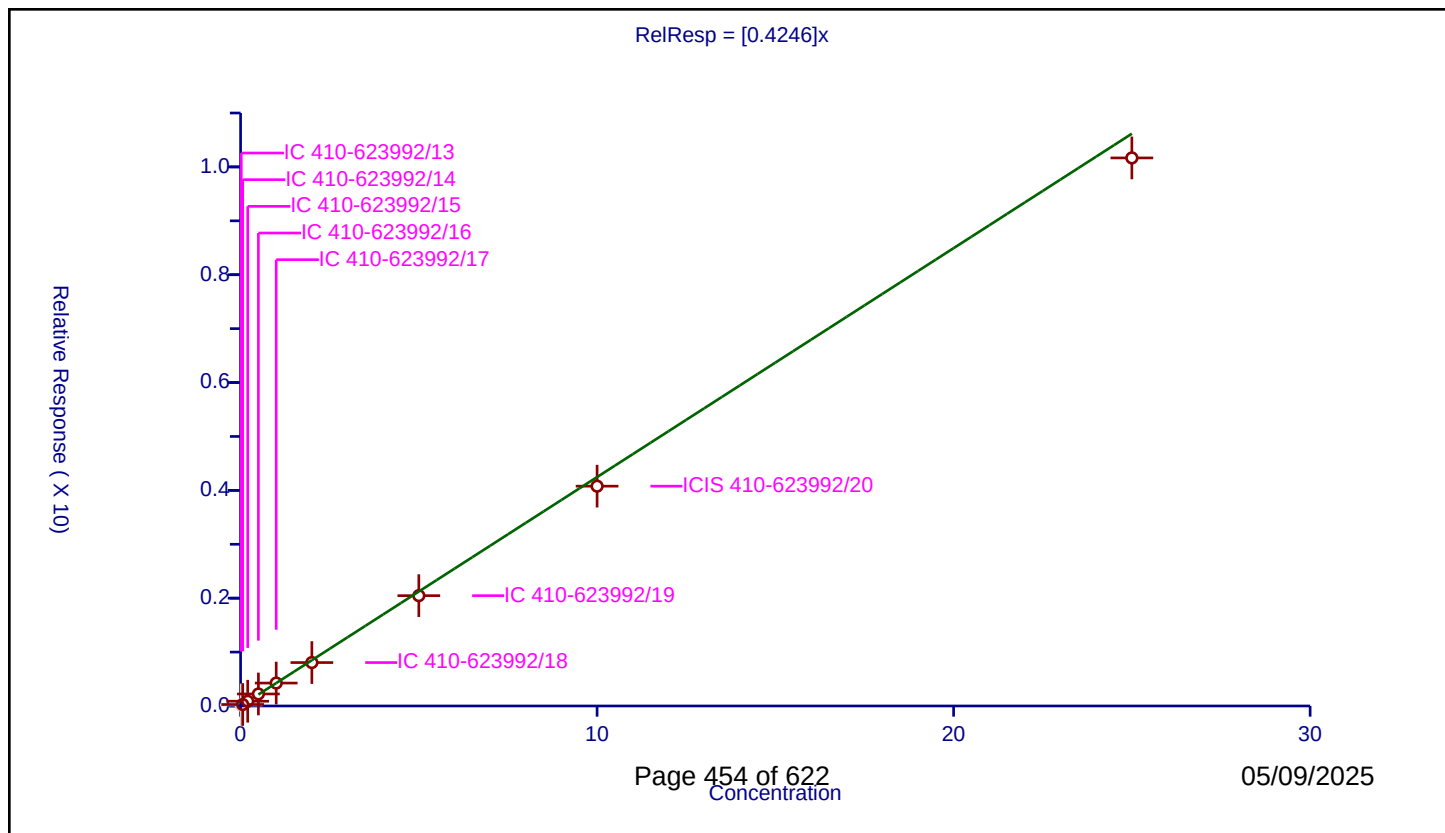
Curve Coefficients

Intercept: 0
Slope: 0.4246

Error Coefficients

Relative Standard Deviation: 5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.018953	10.0	1964341.0	0.947646	N
2	IC 410-623992/14	0.06	0.027386	10.0	1965958.0	0.456436	Y
3	IC 410-623992/15	0.2	0.088512	10.0	2020747.0	0.442559	Y
4	IC 410-623992/16	0.5	0.223085	10.0	2019903.0	0.44617	Y
5	IC 410-623992/17	1.0	0.425324	10.0	2009620.0	0.425324	Y
6	IC 410-623992/18	2.0	0.805752	10.0	2036656.0	0.402876	Y
7	IC 410-623992/19	5.0	2.046704	10.0	2063762.0	0.409341	Y
8	ICIS 410-623992/20	10.0	4.077853	10.0	2055680.0	0.407785	Y
9	IC 410-623992/21	25.0	10.167156	10.0	2125436.0	0.406686	Y



Calibration

/ Vinyl chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

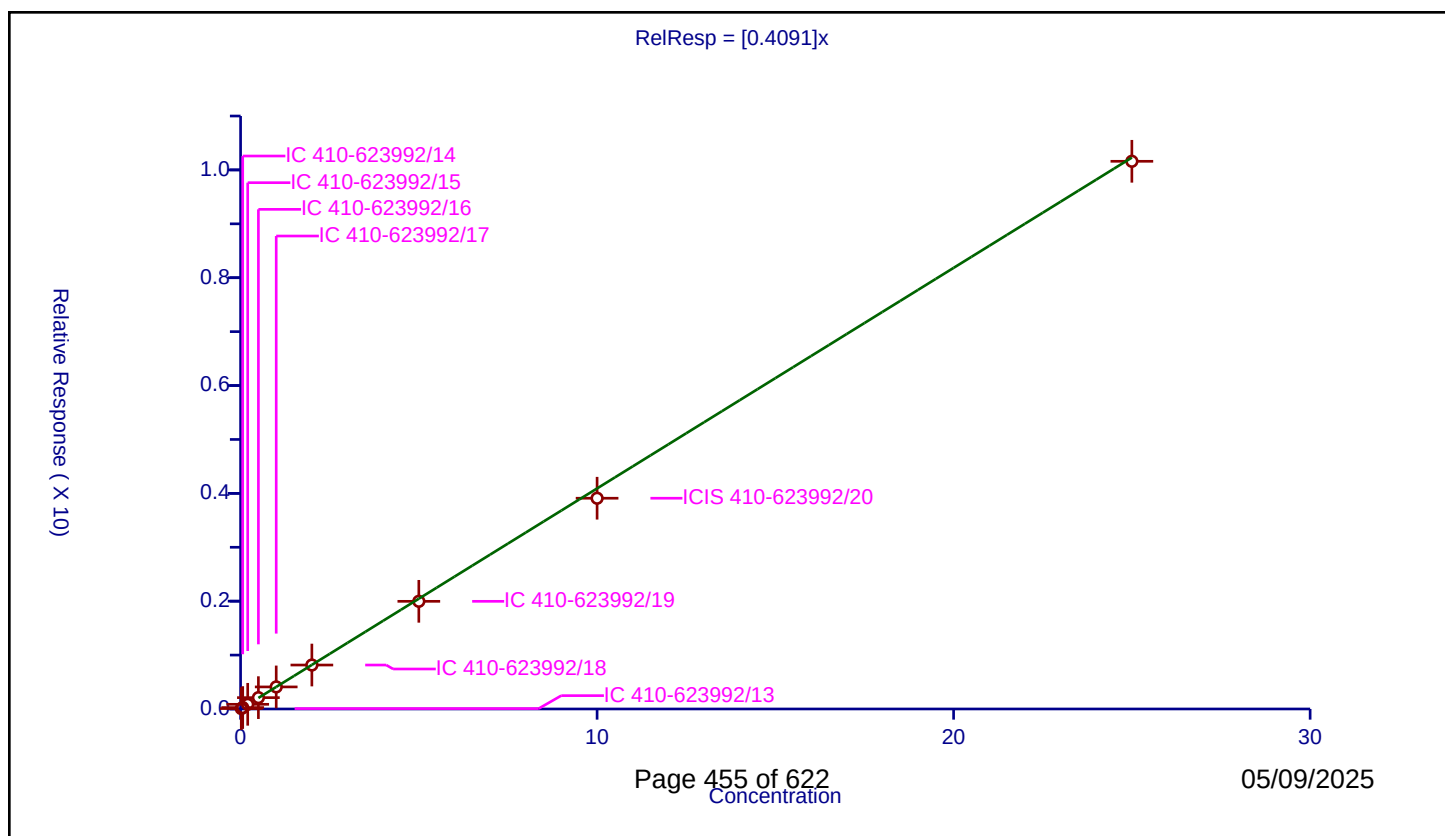
Curve Coefficients

Intercept: 0
Slope: 0.4091

Error Coefficients

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.007422	10.0	1964341.0	0.371117	Y
2	IC 410-623992/14	0.06	0.026532	10.0	1965958.0	0.442193	Y
3	IC 410-623992/15	0.2	0.086869	10.0	2020747.0	0.434344	Y
4	IC 410-623992/16	0.5	0.210371	10.0	2019903.0	0.420743	Y
5	IC 410-623992/17	1.0	0.409401	10.0	2009620.0	0.409401	Y
6	IC 410-623992/18	2.0	0.815263	10.0	2036656.0	0.407631	Y
7	IC 410-623992/19	5.0	1.997318	10.0	2063762.0	0.399464	Y
8	ICIS 410-623992/20	10.0	3.909825	10.0	2055680.0	0.390983	Y
9	IC 410-623992/21	25.0	10.160019	10.0	2125436.0	0.406401	Y



Calibration

/ Bromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

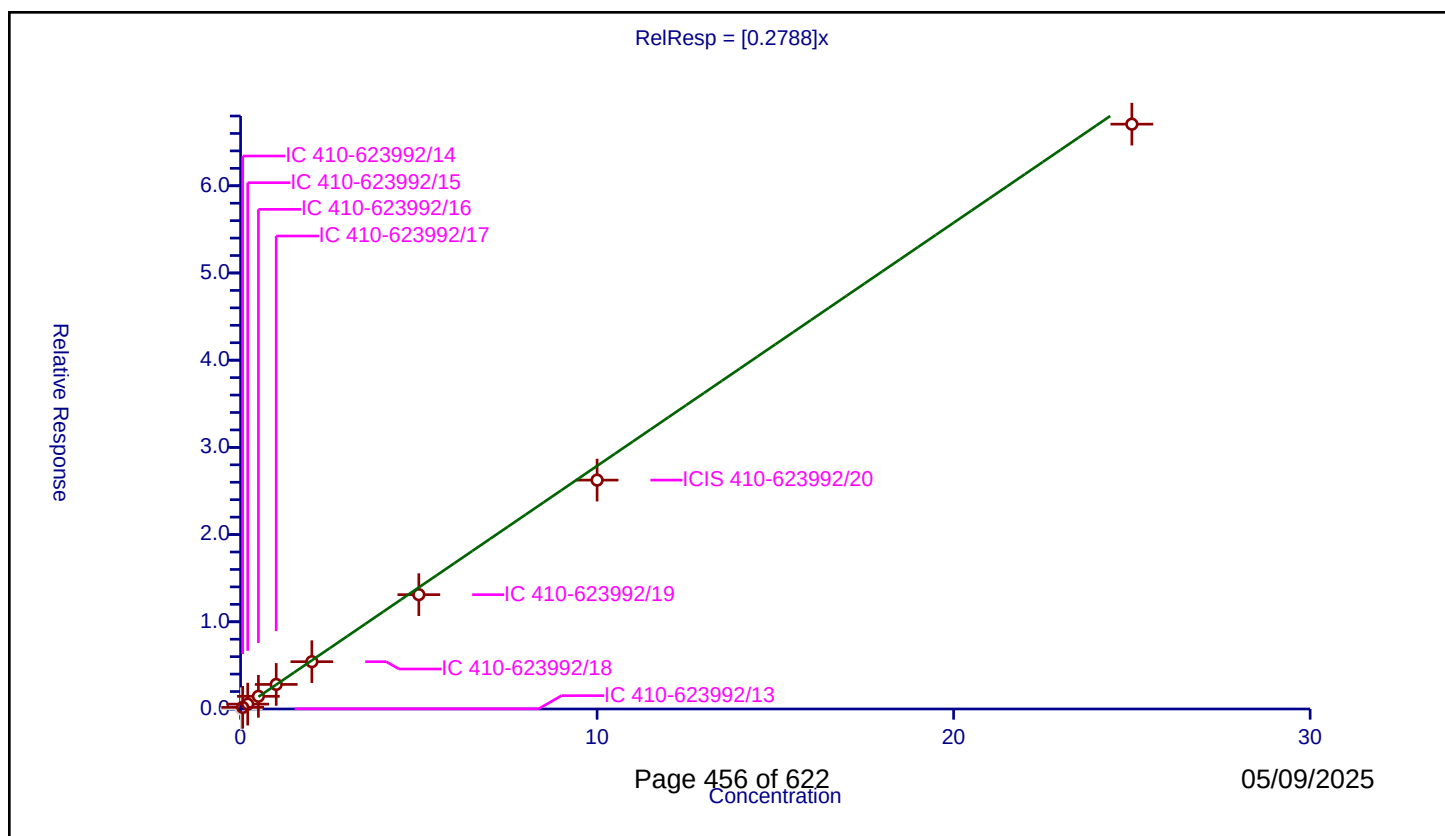
Curve Coefficients

Intercept: 0
Slope: 0.2788

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.002744	10.0	1964341.0	0.137196	N
2	IC 410-623992/14	0.06	0.018861	10.0	1965958.0	0.314351	Y
3	IC 410-623992/15	0.2	0.055821	10.0	2020747.0	0.279105	Y
4	IC 410-623992/16	0.5	0.145438	10.0	2019903.0	0.290875	Y
5	IC 410-623992/17	1.0	0.281745	10.0	2009620.0	0.281745	Y
6	IC 410-623992/18	2.0	0.54232	10.0	2036656.0	0.27116	Y
7	IC 410-623992/19	5.0	1.311072	10.0	2063762.0	0.262214	Y
8	ICIS 410-623992/20	10.0	2.624728	10.0	2055680.0	0.262473	Y
9	IC 410-623992/21	25.0	6.706685	10.0	2125436.0	0.268267	Y



Calibration

/ Chloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

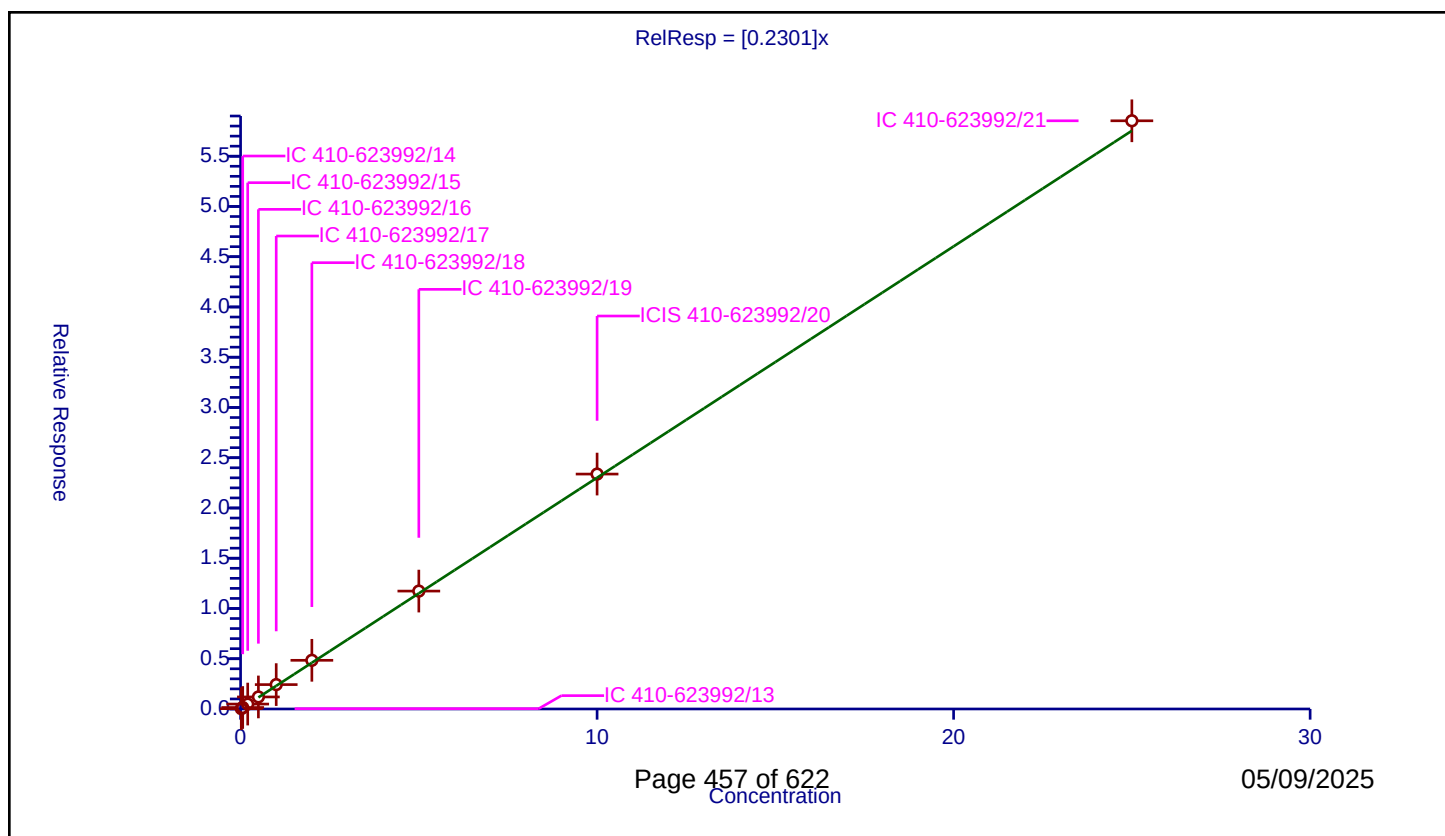
Curve Coefficients

Intercept: 0
Slope: 0.2301

Error Coefficients

Relative Standard Deviation: 12.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.003116	10.0	1964341.0	0.155777	Y
2	IC 410-623992/14	0.06	0.014619	10.0	1965958.0	0.243647	Y
3	IC 410-623992/15	0.2	0.049002	10.0	2020747.0	0.245008	Y
4	IC 410-623992/16	0.5	0.119733	10.0	2019903.0	0.239467	Y
5	IC 410-623992/17	1.0	0.242708	10.0	2009620.0	0.242708	Y
6	IC 410-623992/18	2.0	0.484372	10.0	2036656.0	0.242186	Y
7	IC 410-623992/19	5.0	1.173163	10.0	2063762.0	0.234633	Y
8	ICIS 410-623992/20	10.0	2.337523	10.0	2055680.0	0.233752	Y
9	IC 410-623992/21	25.0	5.852465	10.0	2125436.0	0.234099	Y



Calibration

/ Dichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

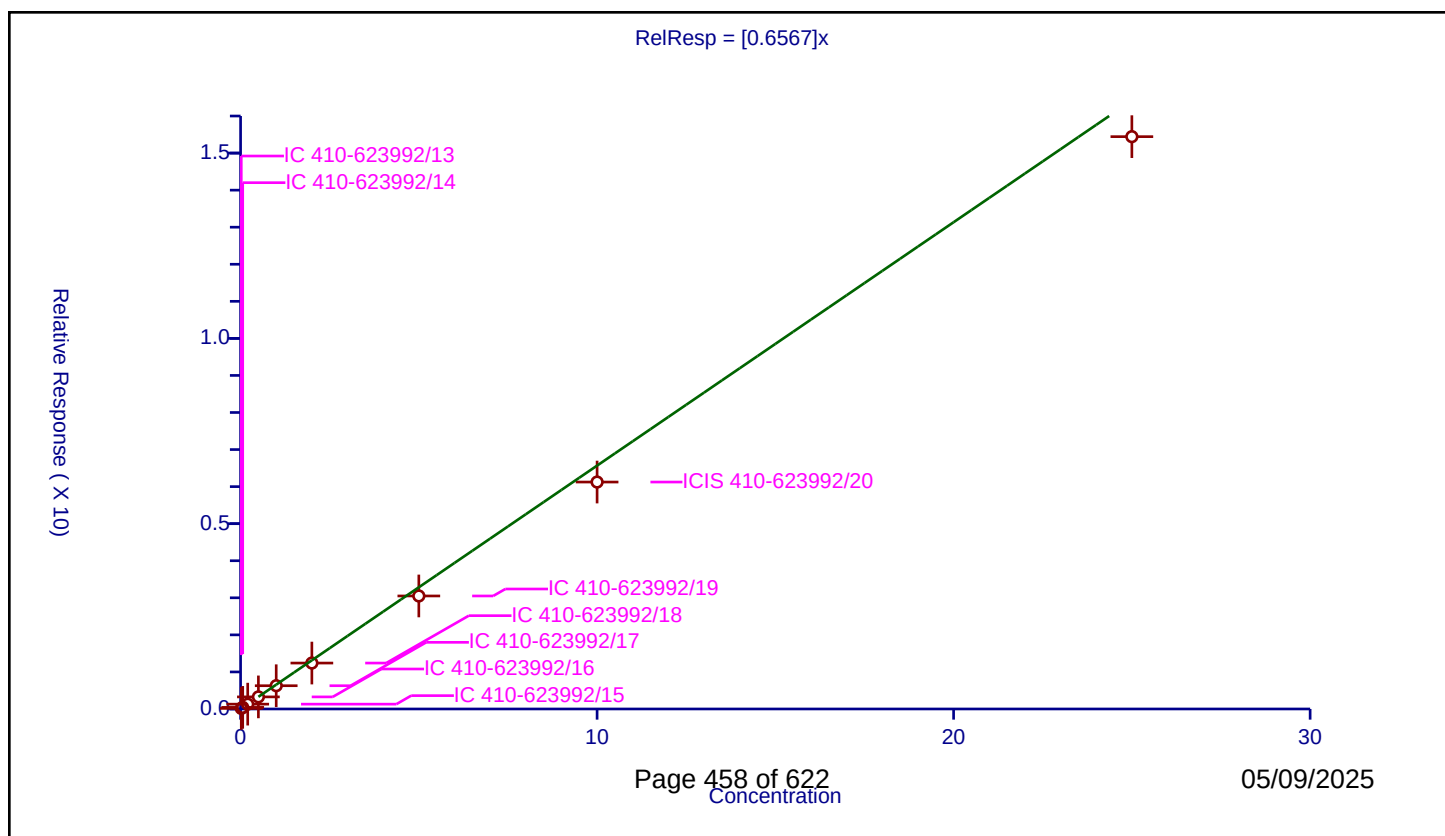
Curve Coefficients

Intercept: 0
Slope: 0.6567

Error Coefficients

Relative Standard Deviation: 9.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.015807	10.0	1964341.0	0.790341	Y
2	IC 410-623992/14	0.06	0.043617	10.0	1965958.0	0.726957	Y
3	IC 410-623992/15	0.2	0.130472	10.0	2020747.0	0.652358	Y
4	IC 410-623992/16	0.5	0.32657	10.0	2019903.0	0.65314	Y
5	IC 410-623992/17	1.0	0.62777	10.0	2009620.0	0.62777	Y
6	IC 410-623992/18	2.0	1.23963	10.0	2036656.0	0.619815	Y
7	IC 410-623992/19	5.0	3.049751	10.0	2063762.0	0.60995	Y
8	ICIS 410-623992/20	10.0	6.123691	10.0	2055680.0	0.612369	Y
9	IC 410-623992/21	25.0	15.443086	10.0	2125436.0	0.617723	Y



Calibration

/ Trichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

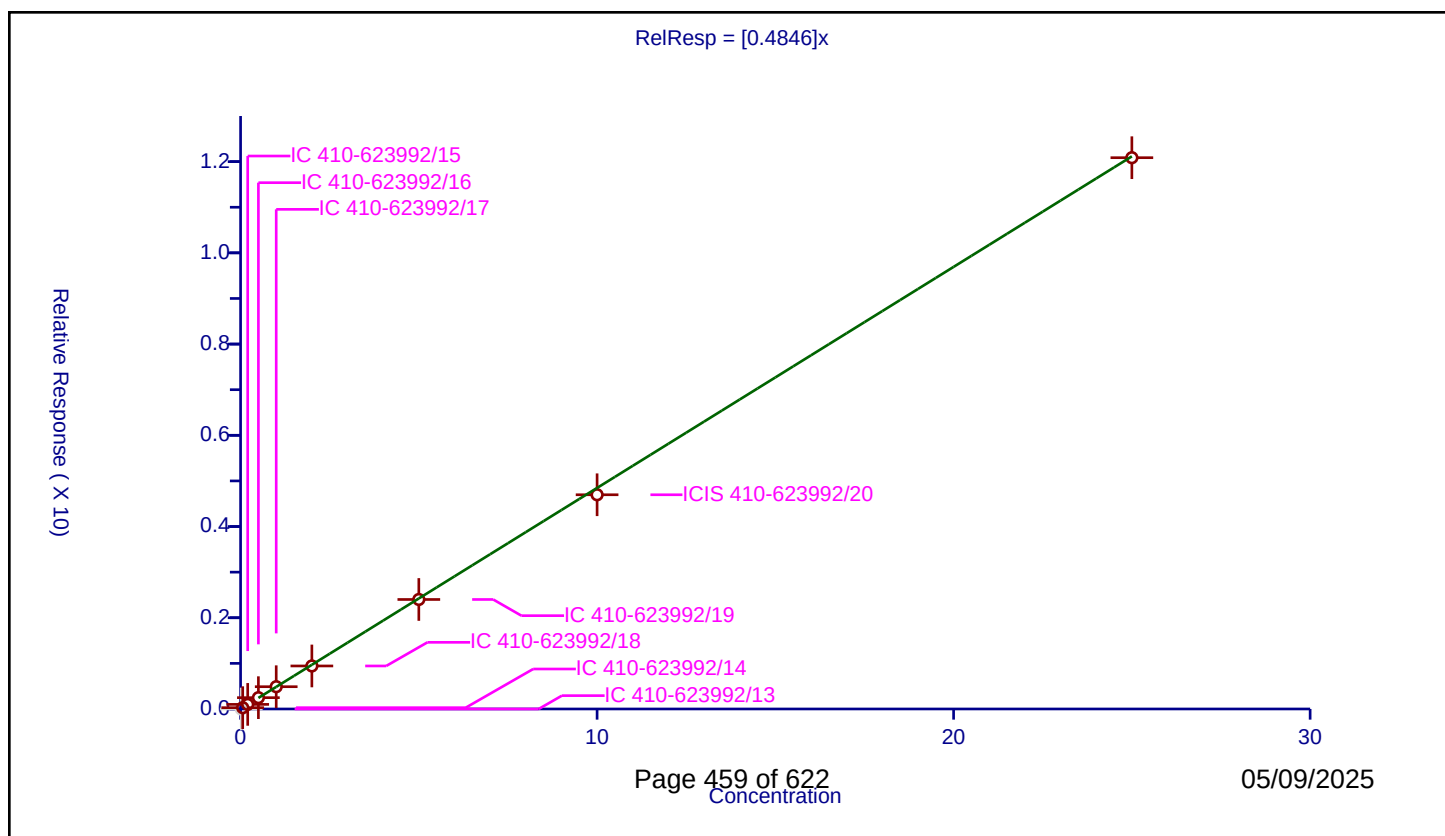
Curve Coefficients

Intercept: 0
Slope: 0.4846

Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.0	10.0	1964341.0	0.0	N
2	IC 410-623992/14	0.06	0.028973	10.0	1965958.0	0.482886	Y
3	IC 410-623992/15	0.2	0.10075	10.0	2020747.0	0.503749	Y
4	IC 410-623992/16	0.5	0.248354	10.0	2019903.0	0.496707	Y
5	IC 410-623992/17	1.0	0.488719	10.0	2009620.0	0.488719	Y
6	IC 410-623992/18	2.0	0.943198	10.0	2036656.0	0.471599	Y
7	IC 410-623992/19	5.0	2.400747	10.0	2063762.0	0.480149	Y
8	ICIS 410-623992/20	10.0	4.696514	10.0	2055680.0	0.469651	Y
9	IC 410-623992/21	25.0	12.086174	10.0	2125436.0	0.483447	Y



Calibration

/ Ethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

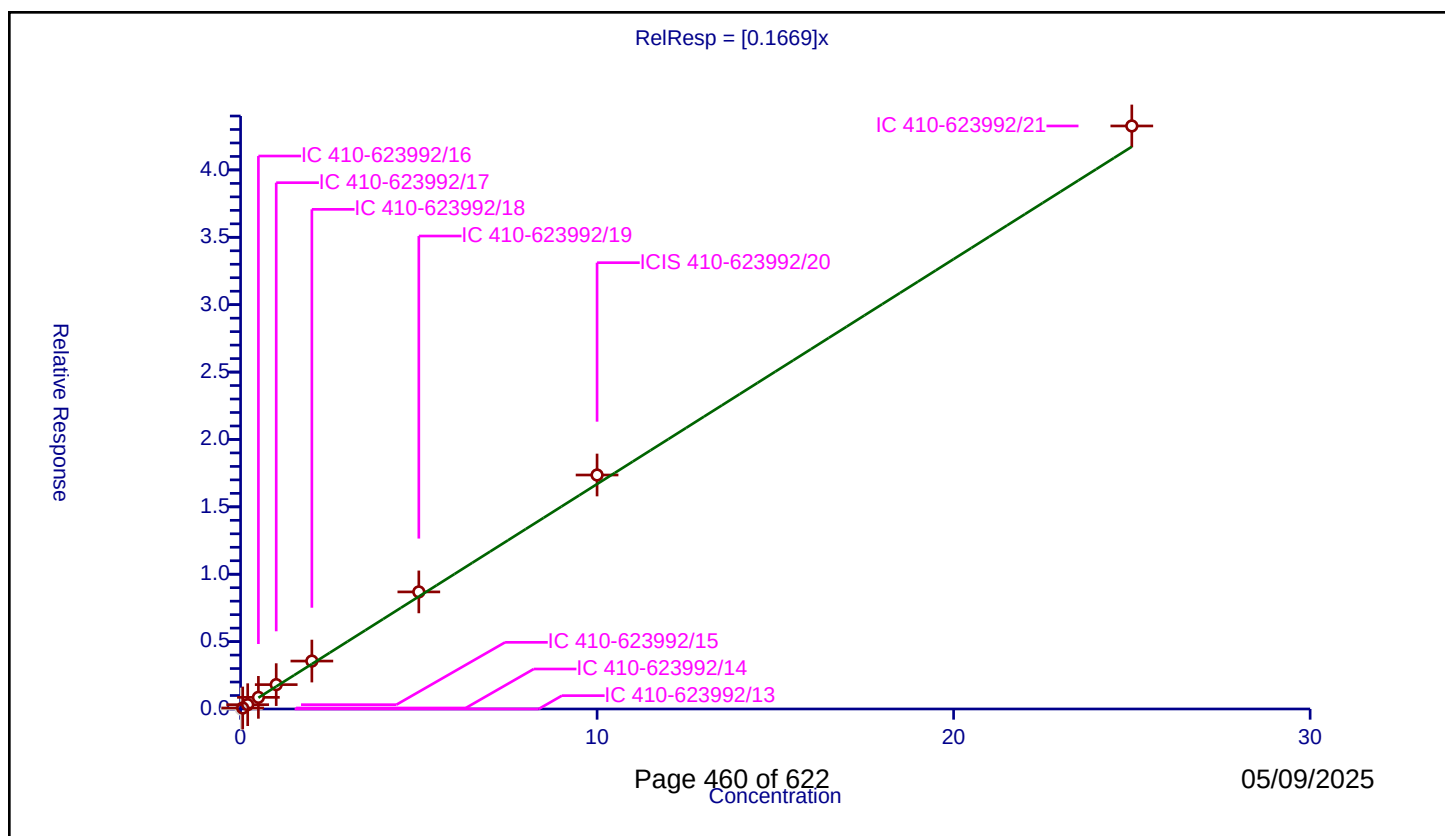
Curve Coefficients

Intercept: 0
Slope: 0.1669

Error Coefficients

Relative Standard Deviation: 11.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.019999	0.0	10.0	1964341.0	0.0	N
2	IC 410-623992/14	0.059996	0.007406	10.0	1965958.0	0.123443	Y
3	IC 410-623992/15	0.199986	0.031988	10.0	2020747.0	0.159952	Y
4	IC 410-623992/16	0.499966	0.086375	10.0	2019903.0	0.172763	Y
5	IC 410-623992/17	0.999932	0.180671	10.0	2009620.0	0.180683	Y
6	IC 410-623992/18	1.999864	0.355725	10.0	2036656.0	0.177875	Y
7	IC 410-623992/19	4.99966	0.868855	10.0	2063762.0	0.173783	Y
8	ICIS 410-623992/20	9.99932	1.736194	10.0	2055680.0	0.173631	Y
9	IC 410-623992/21	24.9983	4.32619	10.0	2125436.0	0.173059	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

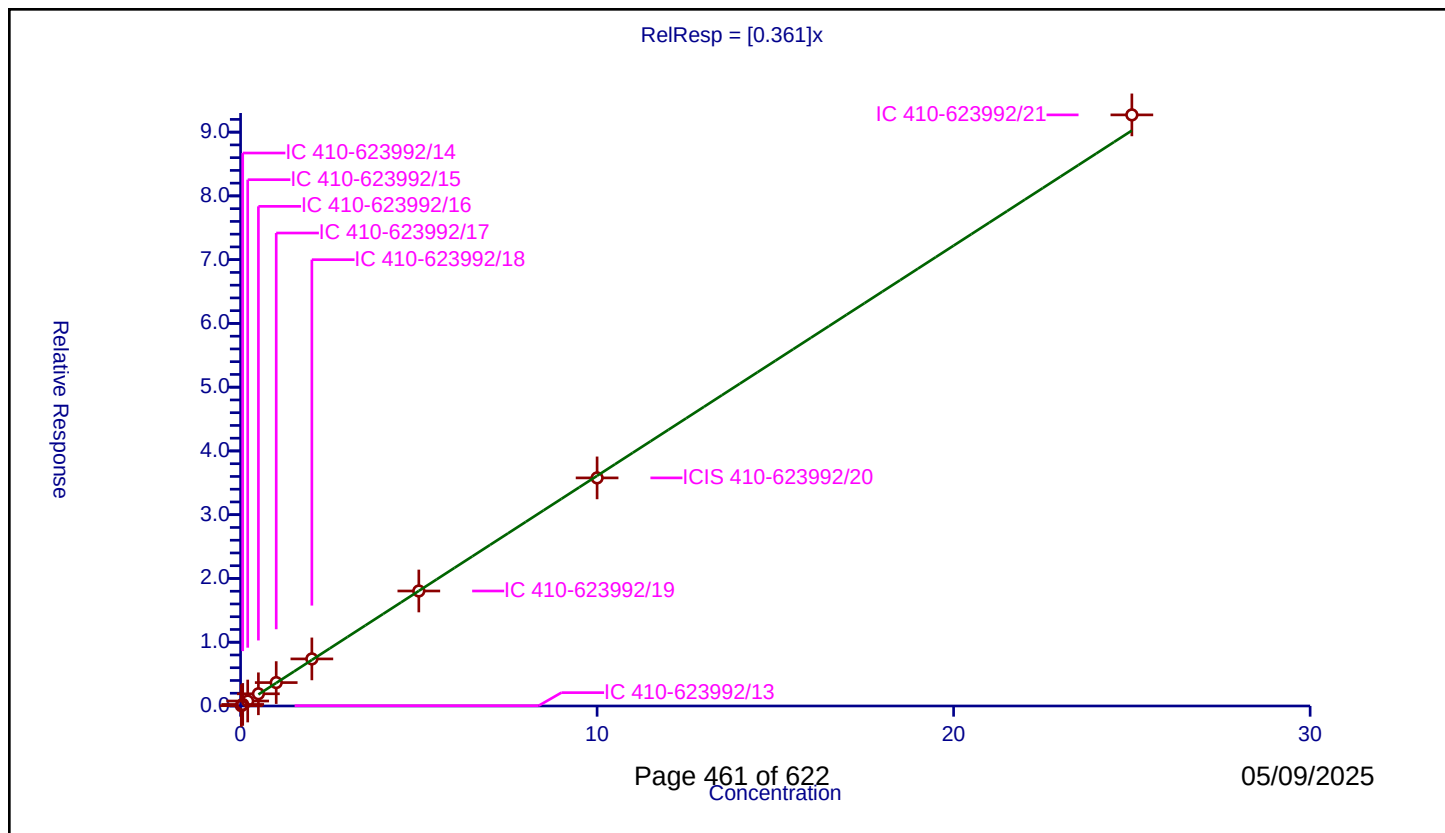
Curve Coefficients

Intercept: 0
Slope: 0.361

Error Coefficients

Relative Standard Deviation: 13.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.004851	10.0	1964341.0	0.242575	Y
2	IC 410-623992/14	0.06	0.024558	10.0	1965958.0	0.4093	Y
3	IC 410-623992/15	0.2	0.077907	10.0	2020747.0	0.389534	Y
4	IC 410-623992/16	0.5	0.191158	10.0	2019903.0	0.382315	Y
5	IC 410-623992/17	1.0	0.36693	10.0	2009620.0	0.36693	Y
6	IC 410-623992/18	2.0	0.738215	10.0	2036656.0	0.369107	Y
7	IC 410-623992/19	5.0	1.803803	10.0	2063762.0	0.360761	Y
8	ICIS 410-623992/20	10.0	3.577493	10.0	2055680.0	0.357749	Y
9	IC 410-623992/21	25.0	9.270837	10.0	2125436.0	0.370833	Y



Calibration

/ Acrolein

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

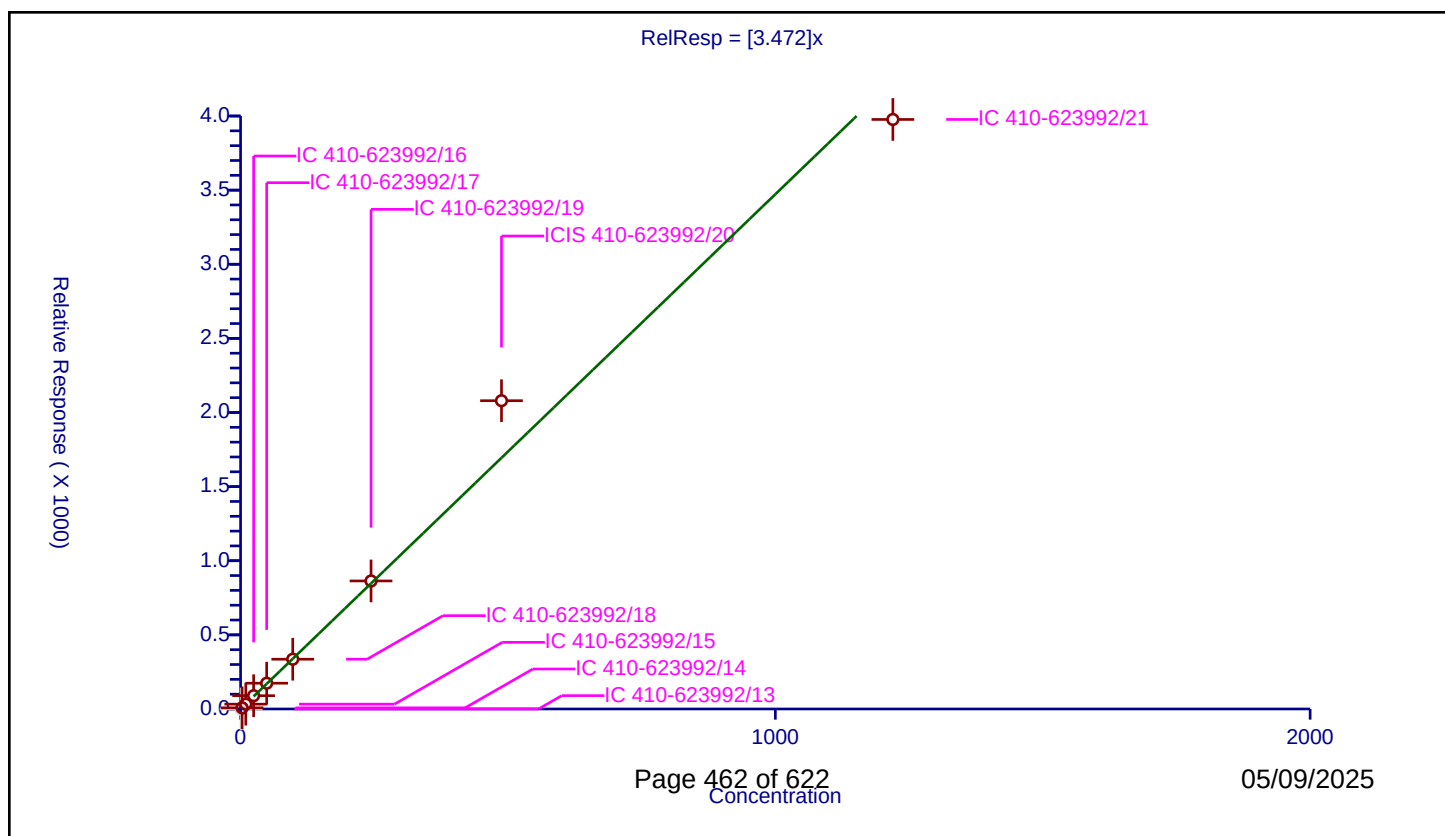
Curve Coefficients

Intercept: 0
Slope: 3.472

Error Coefficients

Relative Standard Deviation: 12.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.975815	0.0	50.0	67983.0	0.0	N
2	IC 410-623992/14	2.927444	7.87611	50.0	69368.0	2.690439	Y
3	IC 410-623992/15	9.758146	32.683873	50.0	55174.0	3.349394	Y
4	IC 410-623992/16	24.395365	89.609044	50.0	62232.0	3.673199	Y
5	IC 410-623992/17	48.790731	173.798357	50.0	62685.0	3.562118	Y
6	IC 410-623992/18	97.581461	335.755611	50.0	66026.0	3.440773	Y
7	IC 410-623992/19	243.953653	863.695764	50.0	62136.0	3.540409	Y
8	ICIS 410-623992/20	487.907307	2079.517127	50.0	42040.0	4.262115	Y
9	IC 410-623992/21	1219.768267	3976.737788	50.0	53430.0	3.26024	Y



Calibration

/ 1,1-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

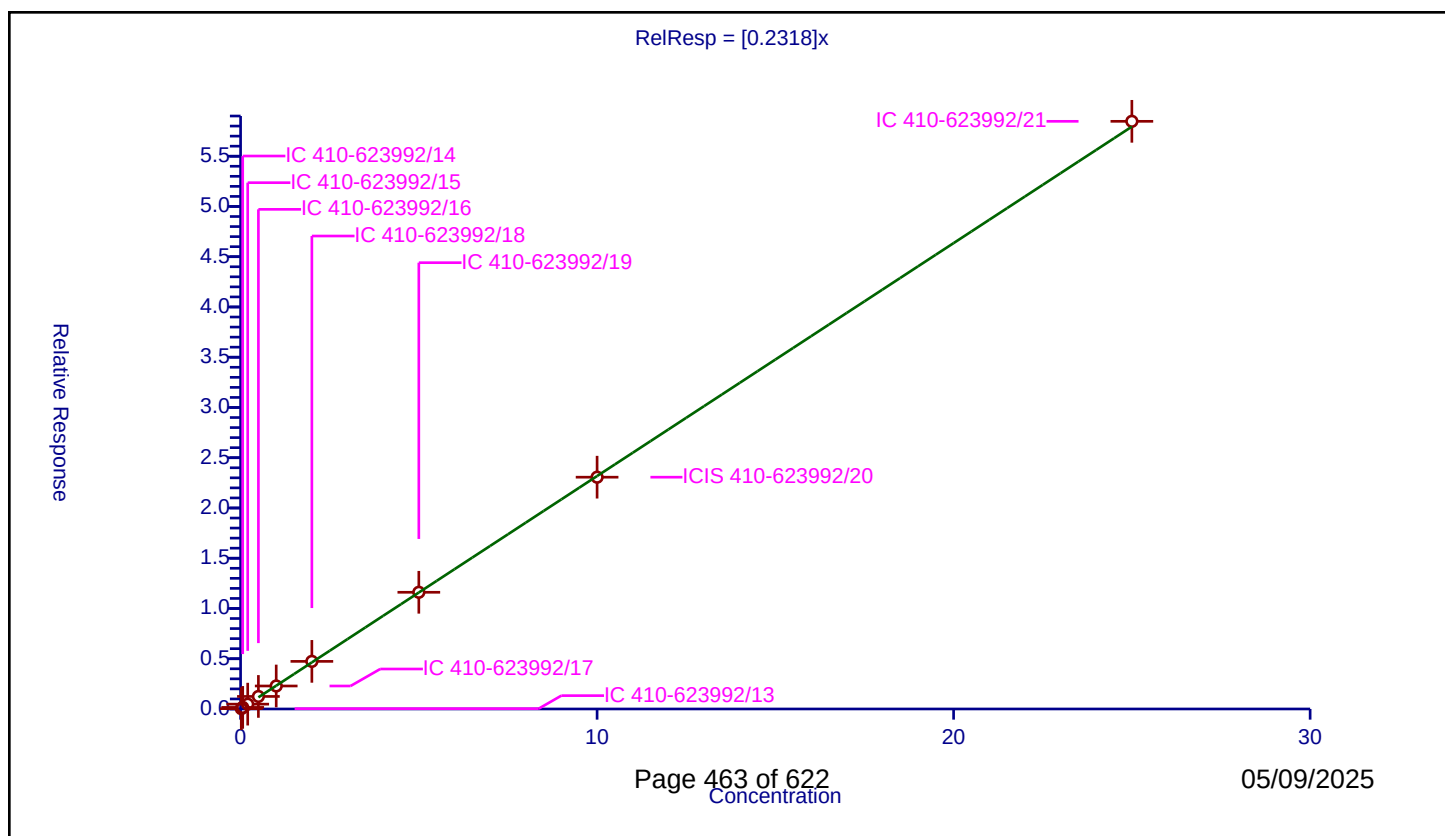
Curve Coefficients

Intercept: 0
Slope: 0.2318

Error Coefficients

Relative Standard Deviation: 11.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.003385	10.0	1964341.0	0.169268	Y
2	IC 410-623992/14	0.06	0.015819	10.0	1965958.0	0.263654	Y
3	IC 410-623992/15	0.2	0.04819	10.0	2020747.0	0.24095	Y
4	IC 410-623992/16	0.5	0.124862	10.0	2019903.0	0.249725	Y
5	IC 410-623992/17	1.0	0.22875	10.0	2009620.0	0.22875	Y
6	IC 410-623992/18	2.0	0.473772	10.0	2036656.0	0.236886	Y
7	IC 410-623992/19	5.0	1.161166	10.0	2063762.0	0.232233	Y
8	ICIS 410-623992/20	10.0	2.306264	10.0	2055680.0	0.230626	Y
9	IC 410-623992/21	25.0	5.847309	10.0	2125436.0	0.233892	Y



Calibration

/ Acetone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

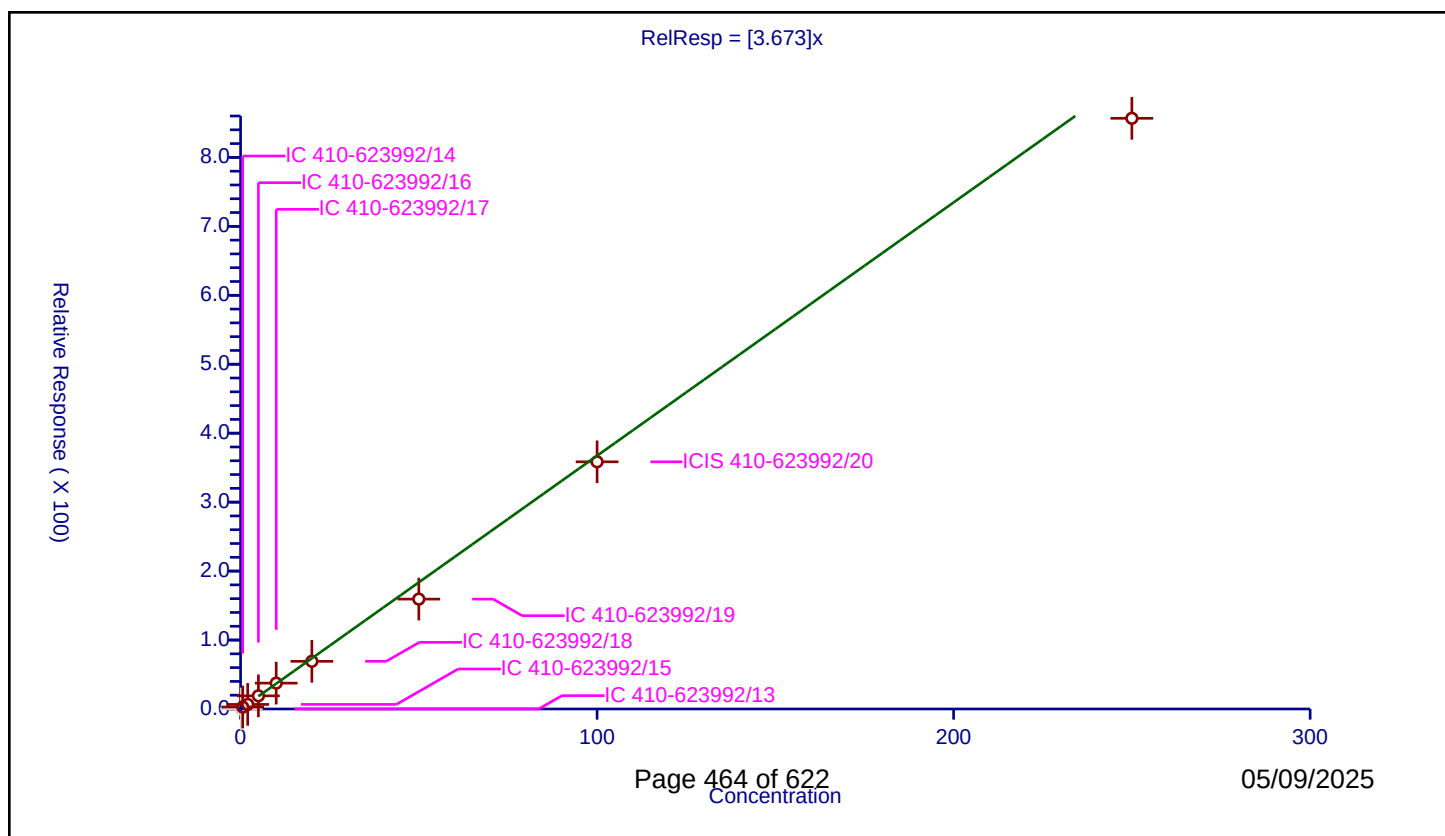
Curve Coefficients

Intercept: 0
Slope: 3.673

Error Coefficients

Relative Standard Deviation: 14.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.2	0.0	50.0	67983.0	0.0	N
2	IC 410-623992/14	0.6	2.91561	50.0	69368.0	4.859349	Y
3	IC 410-623992/15	2.0	6.623591	50.0	55174.0	3.311795	Y
4	IC 410-623992/16	5.0	19.049685	50.0	62232.0	3.809937	Y
5	IC 410-623992/17	10.0	37.493818	50.0	62685.0	3.749382	Y
6	IC 410-623992/18	20.0	69.140944	50.0	66026.0	3.457047	Y
7	IC 410-623992/19	50.0	159.358504	50.0	62136.0	3.18717	Y
8	ICIS 410-623992/20	100.0	358.49667	50.0	42040.0	3.584967	Y
9	IC 410-623992/21	250.0	856.669474	50.0	53430.0	3.426678	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

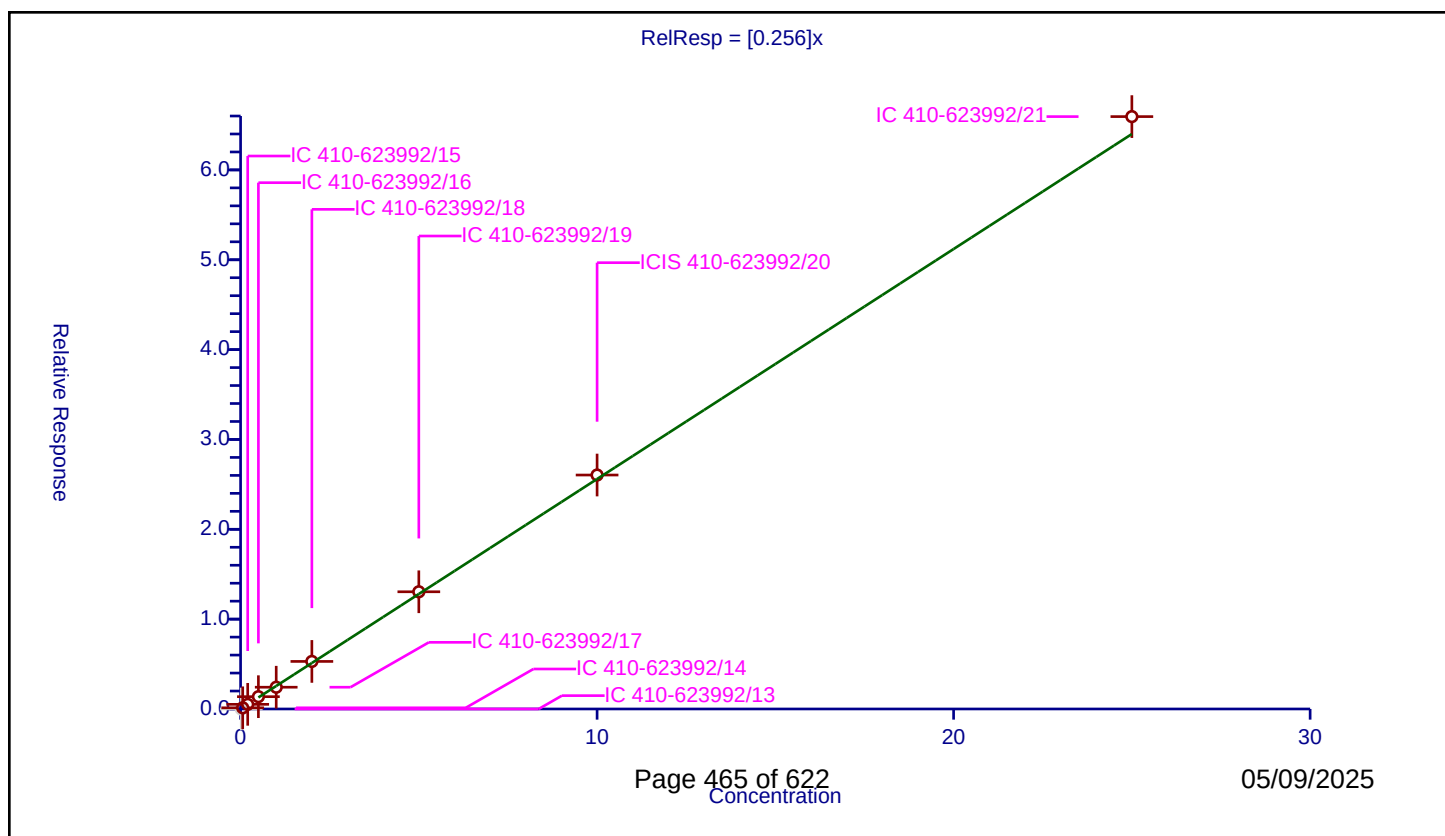
Curve Coefficients

Intercept: 0
Slope: 0.256

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.0	10.0	1964341.0	0.0	N
2	IC 410-623992/14	0.06	0.013352	10.0	1965958.0	0.222538	Y
3	IC 410-623992/15	0.2	0.051877	10.0	2020747.0	0.259384	Y
4	IC 410-623992/16	0.5	0.137026	10.0	2019903.0	0.274053	Y
5	IC 410-623992/17	1.0	0.242195	10.0	2009620.0	0.242195	Y
6	IC 410-623992/18	2.0	0.529255	10.0	2036656.0	0.264627	Y
7	IC 410-623992/19	5.0	1.304608	10.0	2063762.0	0.260922	Y
8	ICIS 410-623992/20	10.0	2.603941	10.0	2055680.0	0.260394	Y
9	IC 410-623992/21	25.0	6.593381	10.0	2125436.0	0.263735	Y



Calibration

/ Iodomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

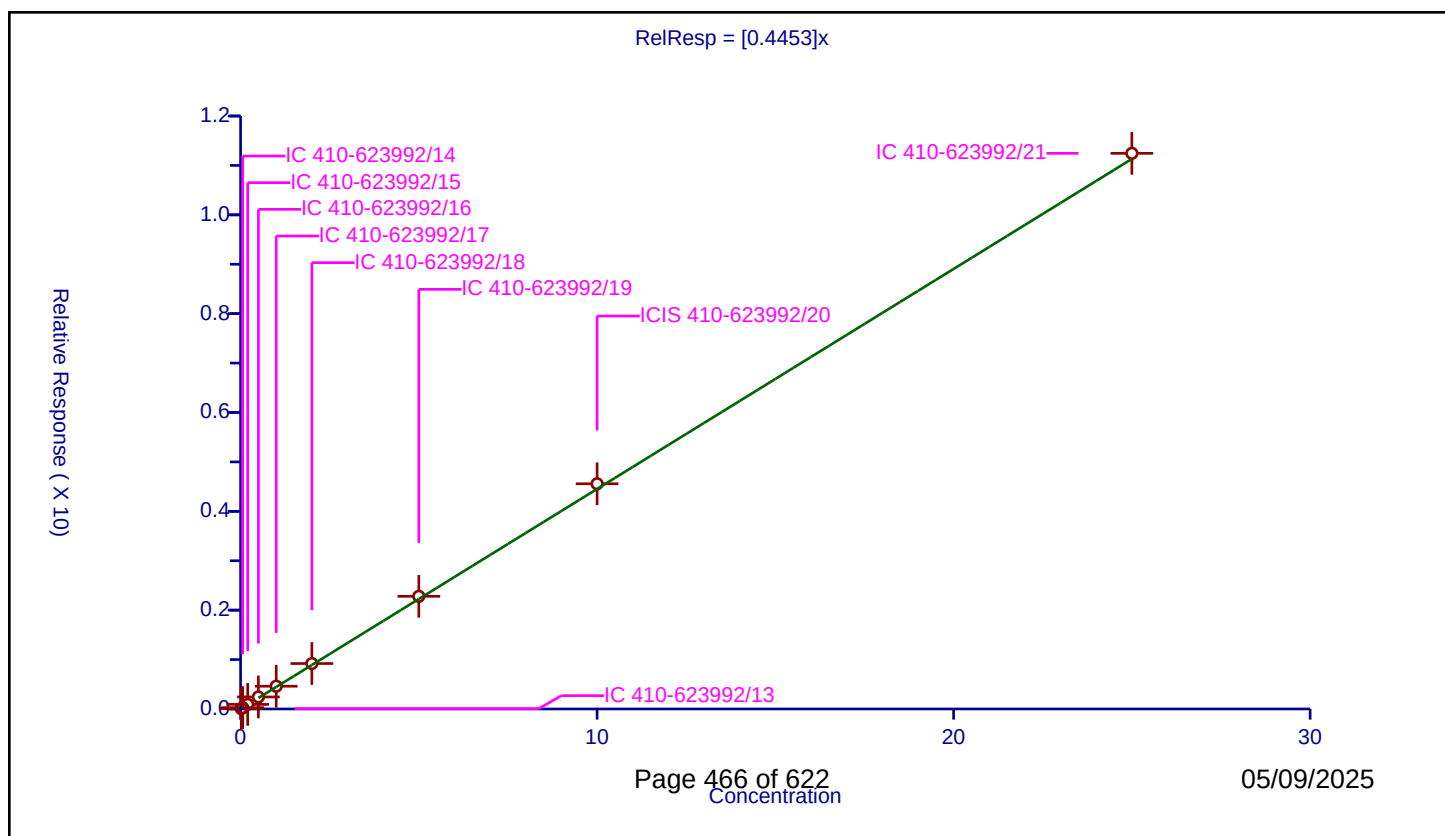
Curve Coefficients

Intercept: 0
Slope: 0.4453

Error Coefficients

Relative Standard Deviation: 11.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.006328	10.0	1964341.0	0.316391	Y
2	IC 410-623992/14	0.06	0.02734	10.0	1965958.0	0.455673	Y
3	IC 410-623992/15	0.2	0.093084	10.0	2020747.0	0.465422	Y
4	IC 410-623992/16	0.5	0.243833	10.0	2019903.0	0.487667	Y
5	IC 410-623992/17	1.0	0.460654	10.0	2009620.0	0.460654	Y
6	IC 410-623992/18	2.0	0.919831	10.0	2036656.0	0.459916	Y
7	IC 410-623992/19	5.0	2.280248	10.0	2063762.0	0.45605	Y
8	ICIS 410-623992/20	10.0	4.557533	10.0	2055680.0	0.455753	Y
9	IC 410-623992/21	25.0	11.245067	10.0	2125436.0	0.449803	Y



Calibration

/ Ethyl bromide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

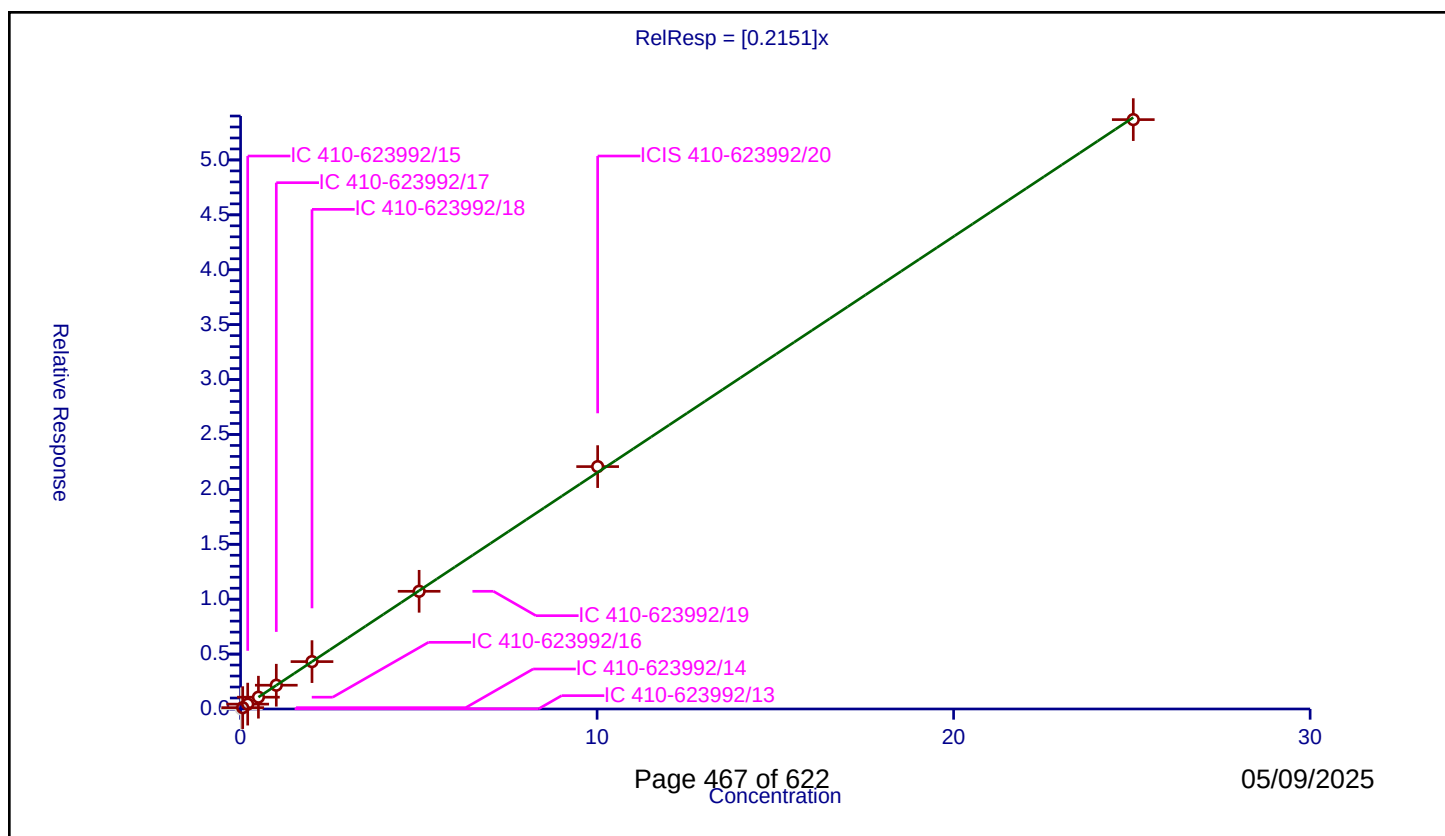
Curve Coefficients

Intercept: 0
Slope: 0.2151

Error Coefficients

Relative Standard Deviation: 2.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.020032	0.001746	10.0	1964341.0	0.087167	N
2	IC 410-623992/14	0.060096	0.01235	10.0	1965958.0	0.205507	Y
3	IC 410-623992/15	0.200321	0.044221	10.0	2020747.0	0.220752	Y
4	IC 410-623992/16	0.500802	0.107371	10.0	2019903.0	0.214399	Y
5	IC 410-623992/17	1.001604	0.216578	10.0	2009620.0	0.216231	Y
6	IC 410-623992/18	2.003208	0.431447	10.0	2036656.0	0.215378	Y
7	IC 410-623992/19	5.00802	1.071713	10.0	2063762.0	0.213999	Y
8	ICIS 410-623992/20	10.01604	2.207226	10.0	2055680.0	0.220369	Y
9	IC 410-623992/21	25.0401	5.367129	10.0	2125436.0	0.214341	Y



Calibration

/ Carbon disulfide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

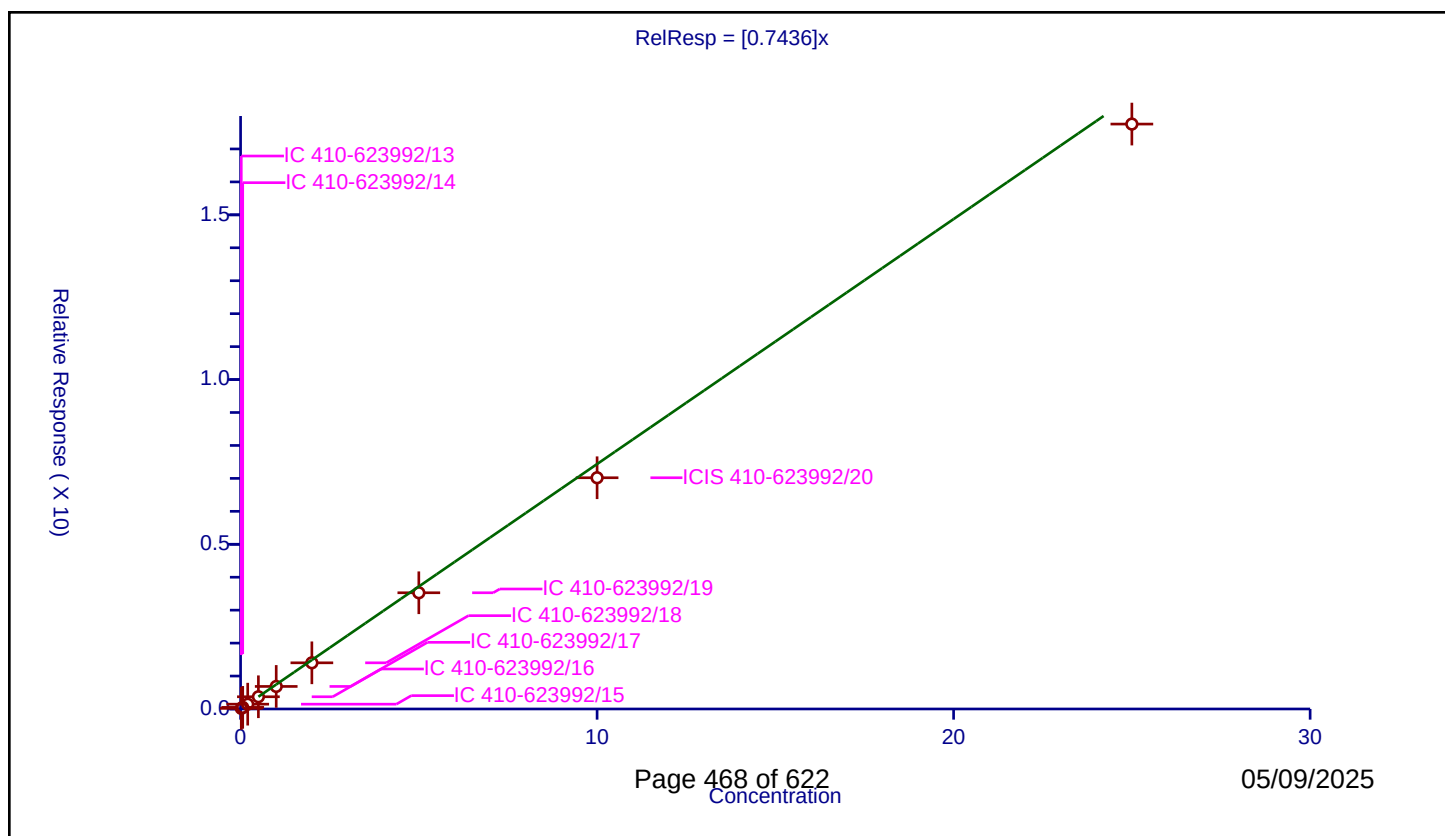
Curve Coefficients

Intercept: 0
Slope: 0.7436

Error Coefficients

Relative Standard Deviation: 9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.018016	10.0	1964341.0	0.900811	Y
2	IC 410-623992/14	0.06	0.048974	10.0	1965958.0	0.816226	Y
3	IC 410-623992/15	0.2	0.14601	10.0	2020747.0	0.730052	Y
4	IC 410-623992/16	0.5	0.370949	10.0	2019903.0	0.741897	Y
5	IC 410-623992/17	1.0	0.684443	10.0	2009620.0	0.684443	Y
6	IC 410-623992/18	2.0	1.401739	10.0	2036656.0	0.700869	Y
7	IC 410-623992/19	5.0	3.528357	10.0	2063762.0	0.705671	Y
8	ICIS 410-623992/20	10.0	7.019225	10.0	2055680.0	0.701922	Y
9	IC 410-623992/21	25.0	17.755858	10.0	2125436.0	0.710234	Y



Calibration

/ Methyl acetate

Curve Type: Linear
Weighting: None
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

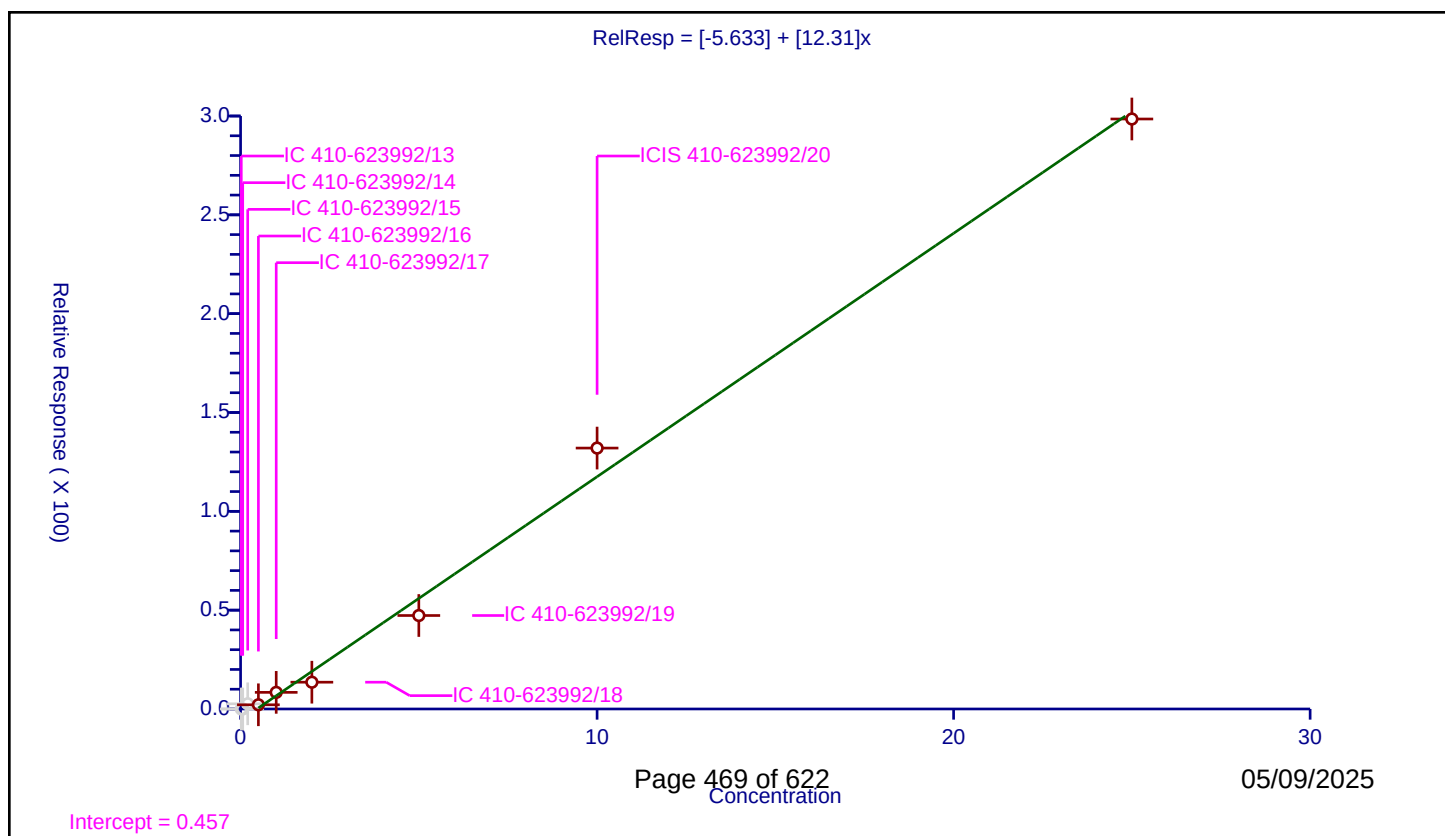
Curve Coefficients

Intercept: -5.633
Slope: 12.31

Error Coefficients

Relative Standard Deviation: 20.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.0	50.0	67983.0	0.0	N
2	IC 410-623992/14	0.06	0.0	50.0	69368.0	0.0	N
3	IC 410-623992/15	0.2	2.627143	50.0	55174.0	13.135716	N
4	IC 410-623992/16	0.5	2.120292	50.0	62232.0	4.240584	Y
5	IC 410-623992/17	1.0	8.417484	50.0	62685.0	8.417484	Y
6	IC 410-623992/18	2.0	13.55148	50.0	66026.0	6.77574	Y
7	IC 410-623992/19	5.0	47.289816	50.0	62136.0	9.457963	Y
8	ICIS 410-623992/20	10.0	132.007612	50.0	42040.0	13.200761	Y
9	IC 410-623992/21	25.0	298.493356	50.0	53430.0	11.939734	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

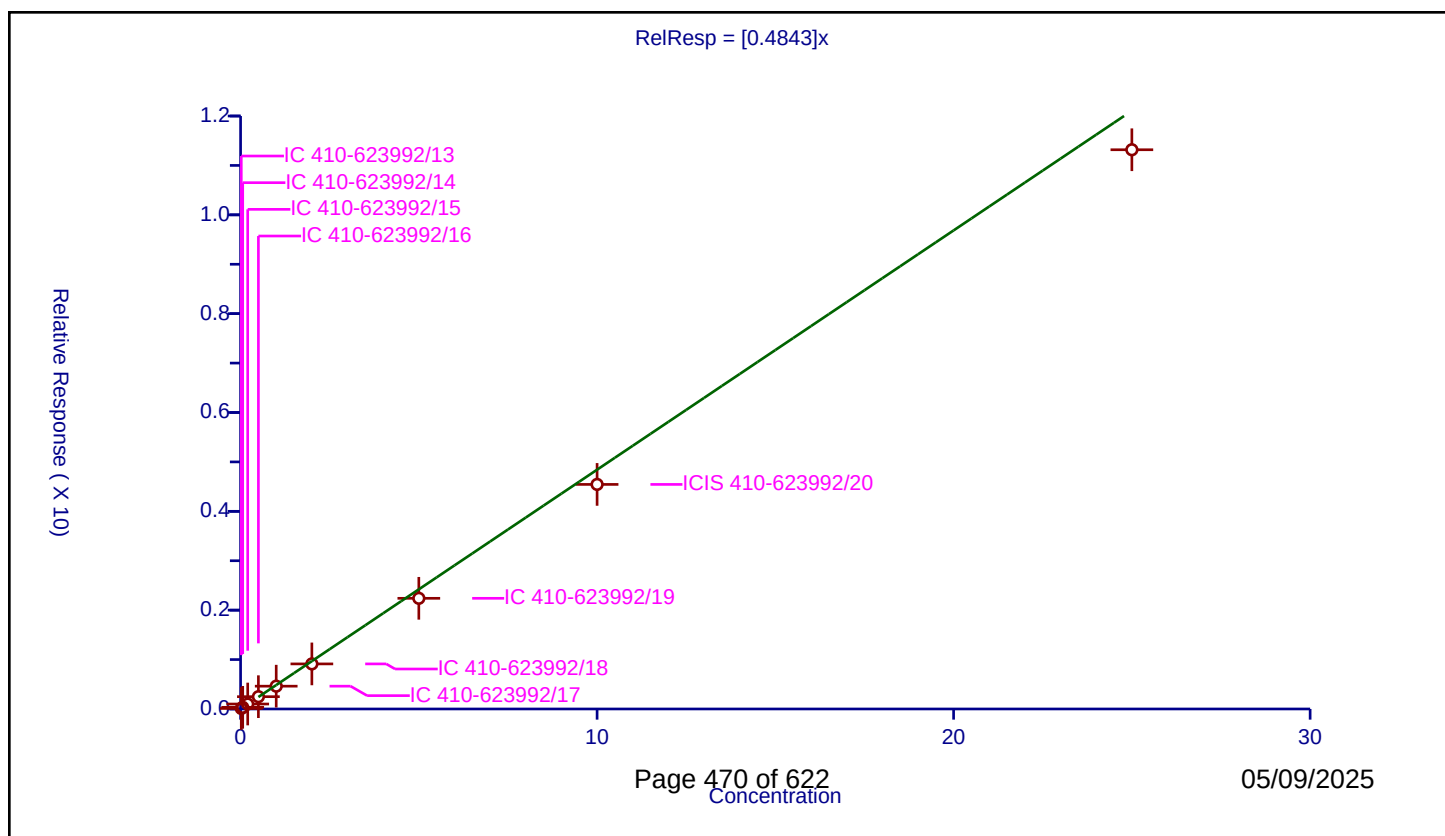
Curve Coefficients

Intercept: 0
Slope: 0.4843

Error Coefficients

Relative Standard Deviation: 8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.010431	10.0	1964341.0	0.521549	Y
2	IC 410-623992/14	0.06	0.03376	10.0	1965958.0	0.56266	Y
3	IC 410-623992/15	0.2	0.100636	10.0	2020747.0	0.50318	Y
4	IC 410-623992/16	0.5	0.249027	10.0	2019903.0	0.498054	Y
5	IC 410-623992/17	1.0	0.461734	10.0	2009620.0	0.461734	Y
6	IC 410-623992/18	2.0	0.912069	10.0	2036656.0	0.456034	Y
7	IC 410-623992/19	5.0	2.239599	10.0	2063762.0	0.44792	Y
8	ICIS 410-623992/20	10.0	4.544837	10.0	2055680.0	0.454484	Y
9	IC 410-623992/21	25.0	11.317198	10.0	2125436.0	0.452688	Y



Calibration

/ Methylene Chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

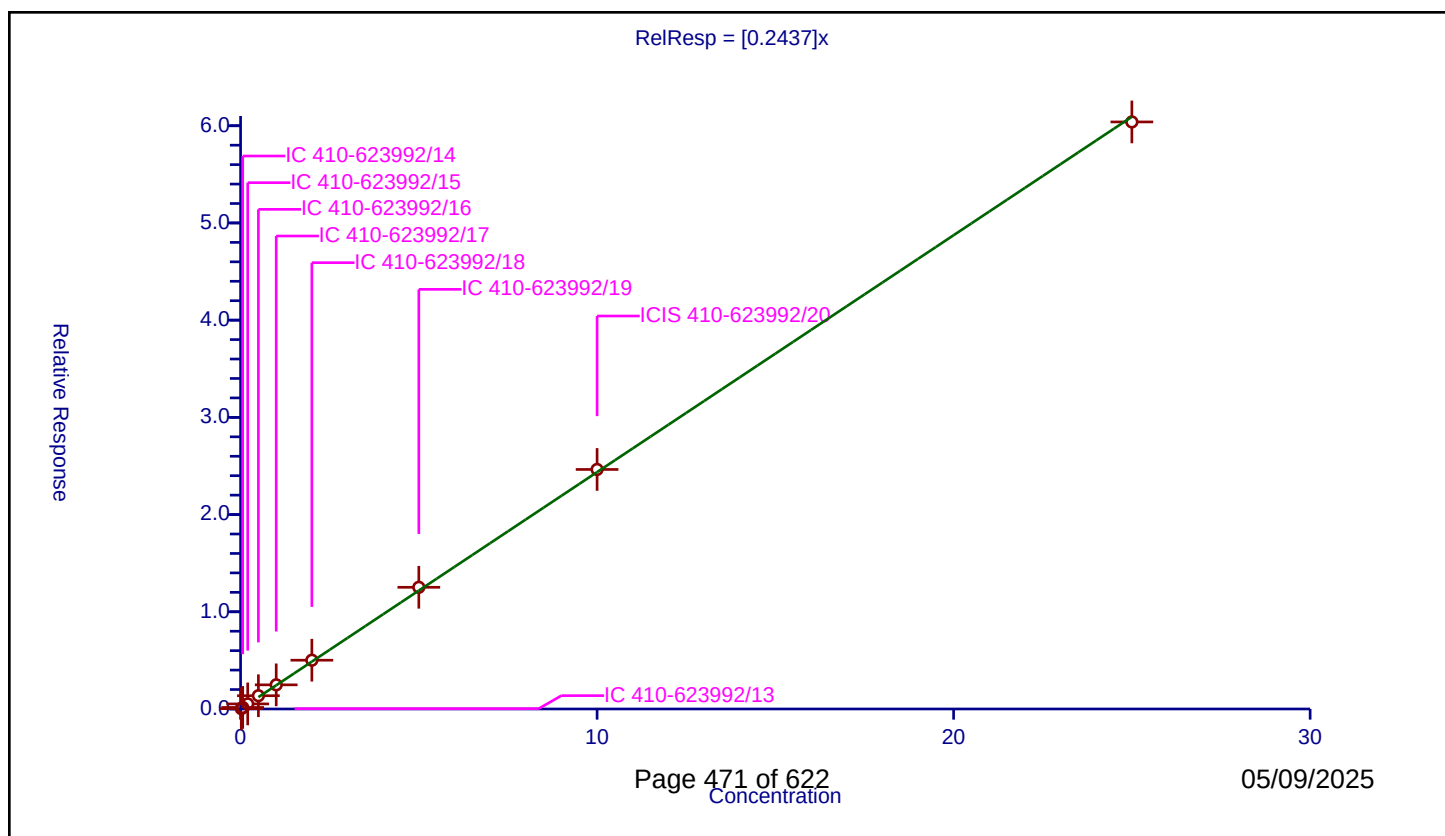
Curve Coefficients

Intercept: 0
Slope: 0.2437

Error Coefficients

Relative Standard Deviation: 13.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.003161	10.0	1964341.0	0.158068	Y
2	IC 410-623992/14	0.06	0.015763	10.0	1965958.0	0.262722	Y
3	IC 410-623992/15	0.2	0.052342	10.0	2020747.0	0.26171	Y
4	IC 410-623992/16	0.5	0.136467	10.0	2019903.0	0.272934	Y
5	IC 410-623992/17	1.0	0.24846	10.0	2009620.0	0.24846	Y
6	IC 410-623992/18	2.0	0.501754	10.0	2036656.0	0.250877	Y
7	IC 410-623992/19	5.0	1.251913	10.0	2063762.0	0.250383	Y
8	ICIS 410-623992/20	10.0	2.464241	10.0	2055680.0	0.246424	Y
9	IC 410-623992/21	25.0	6.039048	10.0	2125436.0	0.241562	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

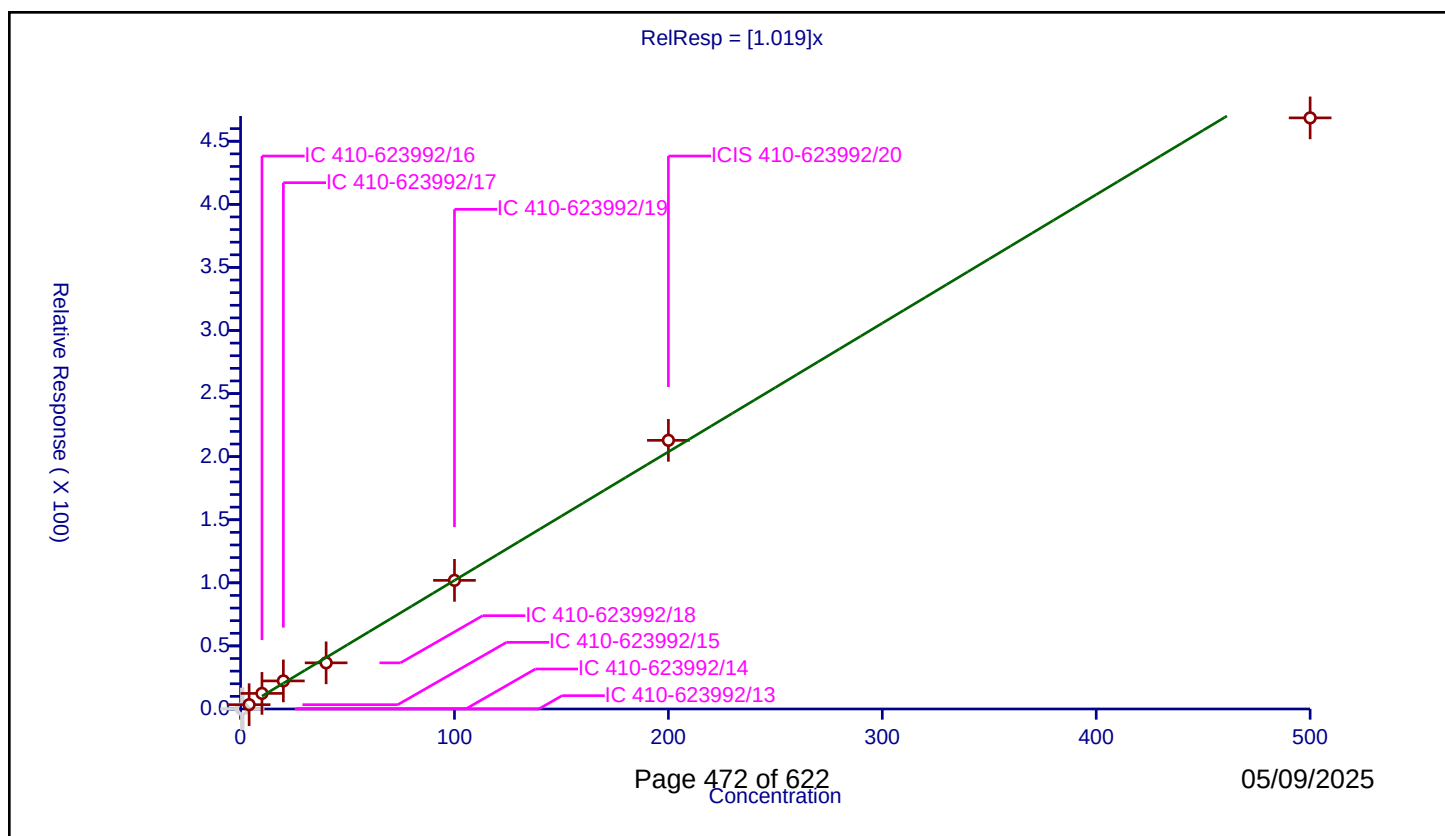
Curve Coefficients

Intercept: 0
Slope: 1.019

Error Coefficients

Relative Standard Deviation: 12.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.4	0.0	50.0	67983.0	0.0	N
2	IC 410-623992/14	1.2	0.231375	50.0	69368.0	0.192812	N
3	IC 410-623992/15	4.0	3.407402	50.0	55174.0	0.851851	Y
4	IC 410-623992/16	10.0	12.346542	50.0	62232.0	1.234654	Y
5	IC 410-623992/17	20.0	22.250937	50.0	62685.0	1.112547	Y
6	IC 410-623992/18	40.0	36.585587	50.0	66026.0	0.91464	Y
7	IC 410-623992/19	100.0	101.942513	50.0	62136.0	1.019425	Y
8	ICIS 410-623992/20	200.0	212.948382	50.0	42040.0	1.064742	Y
9	IC 410-623992/21	500.0	468.527045	50.0	53430.0	0.937054	Y



Calibration

/ Acrylonitrile

Curve Type: Linear
Weighting: None
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

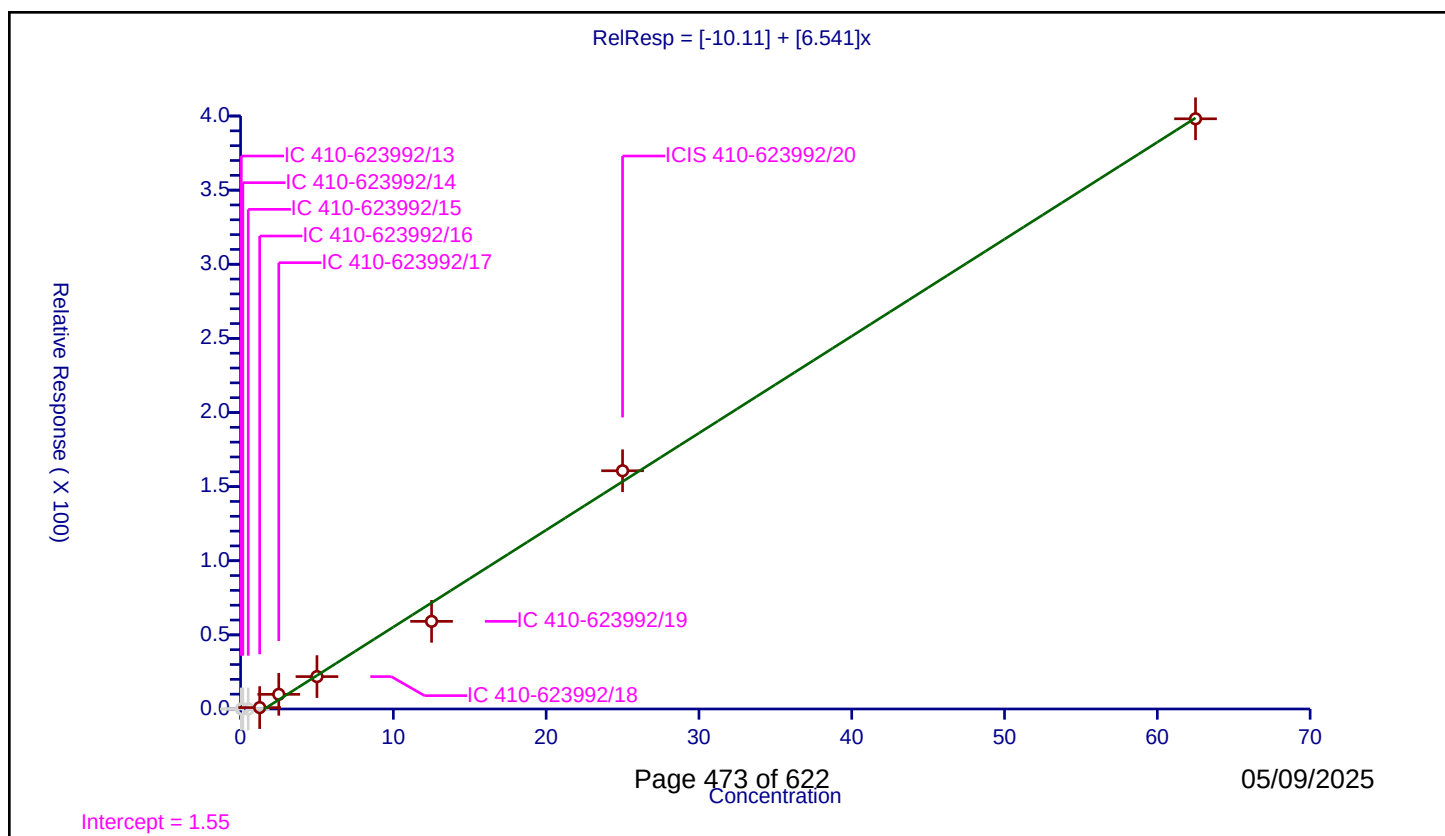
Curve Coefficients

Intercept: -10.11
Slope: 6.541

Error Coefficients

Relative Standard Deviation: 22.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.05	0.0	50.0	67983.0	0.0	N
2	IC 410-623992/14	0.15	0.0	50.0	69368.0	0.0	N
3	IC 410-623992/15	0.5	0.0	50.0	55174.0	0.0	N
4	IC 410-623992/16	1.25	0.949672	50.0	62232.0	0.759738	Y
5	IC 410-623992/17	2.5	9.890723	50.0	62685.0	3.956289	Y
6	IC 410-623992/18	5.0	21.839881	50.0	66026.0	4.367976	Y
7	IC 410-623992/19	12.5	59.11066	50.0	62136.0	4.728853	Y
8	ICIS 410-623992/20	25.0	160.698145	50.0	42040.0	6.427926	Y
9	IC 410-623992/21	62.5	398.124649	50.0	53430.0	6.369994	Y



Calibration

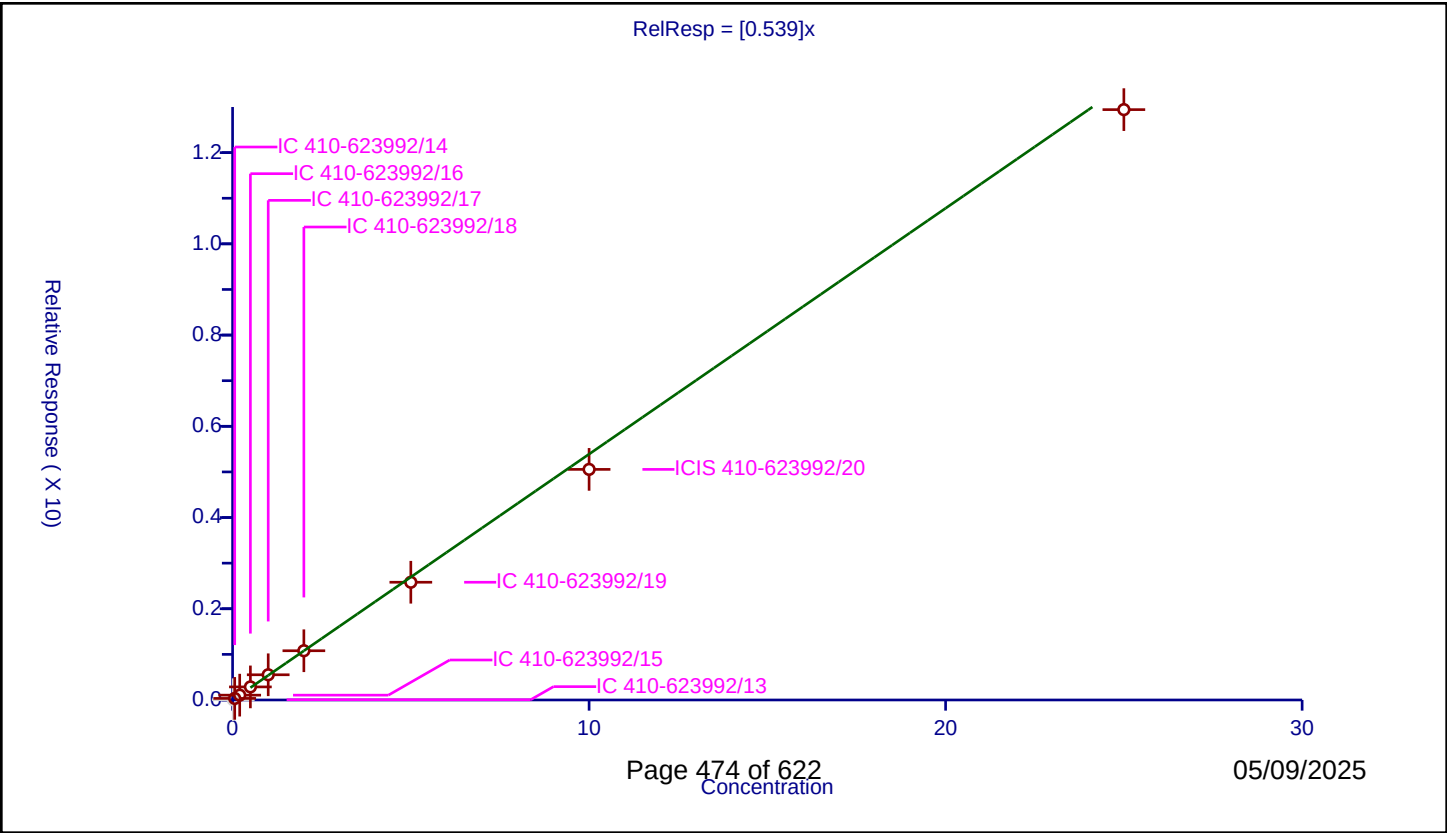
/ Methyl tert-butyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.539
Error Coefficients	

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.00587	10.0	1964341.0	0.293483	N
2	IC 410-623992/14	0.06	0.034553	10.0	1965958.0	0.575885	Y
3	IC 410-623992/15	0.2	0.106065	10.0	2020747.0	0.530324	Y
4	IC 410-623992/16	0.5	0.286791	10.0	2019903.0	0.573582	Y
5	IC 410-623992/17	1.0	0.552975	10.0	2009620.0	0.552975	Y
6	IC 410-623992/18	2.0	1.079642	10.0	2036656.0	0.539821	Y
7	IC 410-623992/19	5.0	2.581582	10.0	2063762.0	0.516316	Y
8	ICIS 410-623992/20	10.0	5.055539	10.0	2055680.0	0.505554	Y
9	IC 410-623992/21	25.0	12.942836	10.0	2125436.0	0.517713	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

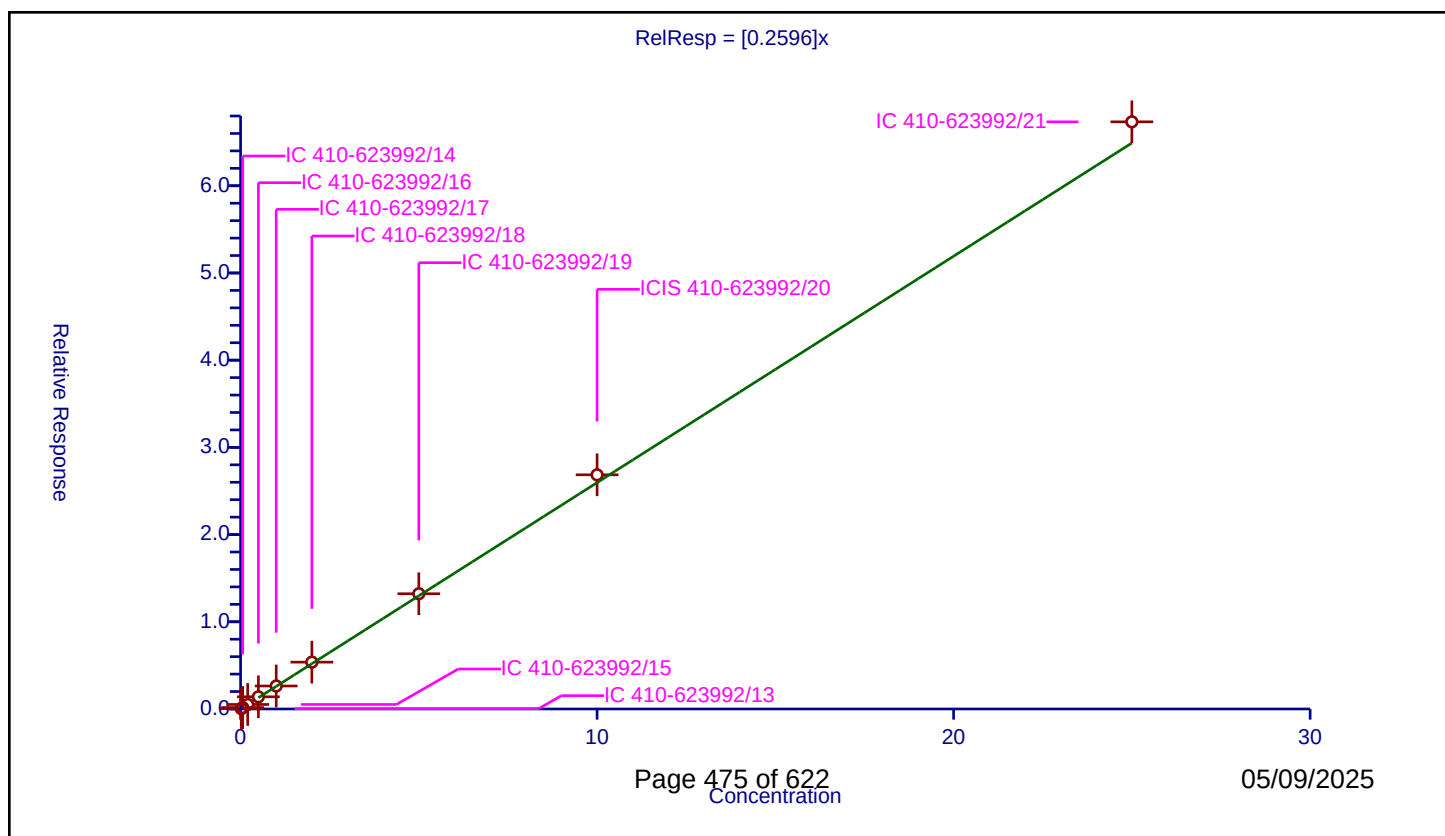
Curve Coefficients

Intercept: 0
Slope: 0.2596

Error Coefficients

Relative Standard Deviation: 11.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.003676	10.0	1964341.0	0.183777	Y
2	IC 410-623992/14	0.06	0.016786	10.0	1965958.0	0.279762	Y
3	IC 410-623992/15	0.2	0.051813	10.0	2020747.0	0.259063	Y
4	IC 410-623992/16	0.5	0.139675	10.0	2019903.0	0.27935	Y
5	IC 410-623992/17	1.0	0.263741	10.0	2009620.0	0.263741	Y
6	IC 410-623992/18	2.0	0.537288	10.0	2036656.0	0.268644	Y
7	IC 410-623992/19	5.0	1.321538	10.0	2063762.0	0.264308	Y
8	ICIS 410-623992/20	10.0	2.685418	10.0	2055680.0	0.268542	Y
9	IC 410-623992/21	25.0	6.733414	10.0	2125436.0	0.269337	Y



Calibration

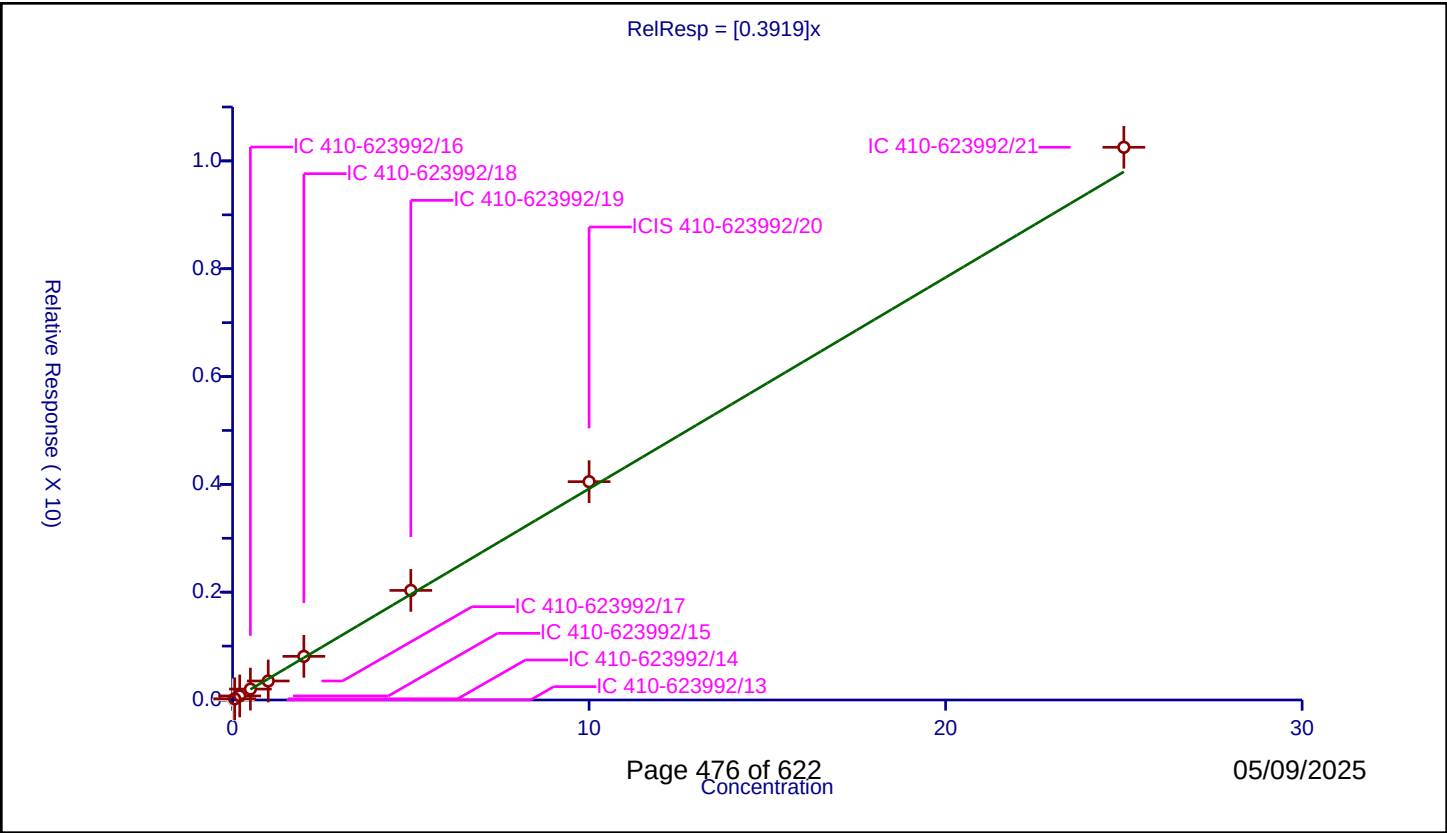
/ Hexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3919

Error Coefficients	
Relative Standard Deviation:	
	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.002606	10.0	1964341.0	0.130324	N
2	IC 410-623992/14	0.06	0.022457	10.0	1965958.0	0.374287	Y
3	IC 410-623992/15	0.2	0.075541	10.0	2020747.0	0.377707	Y
4	IC 410-623992/16	0.5	0.202366	10.0	2019903.0	0.404732	Y
5	IC 410-623992/17	1.0	0.352276	10.0	2009620.0	0.352276	Y
6	IC 410-623992/18	2.0	0.809386	10.0	2036656.0	0.404693	Y
7	IC 410-623992/19	5.0	2.033083	10.0	2063762.0	0.406617	Y
8	ICIS 410-623992/20	10.0	4.050202	10.0	2055680.0	0.40502	Y
9	IC 410-623992/21	25.0	10.253157	10.0	2125436.0	0.410126	Y



Calibration

/ 1,1-Dichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

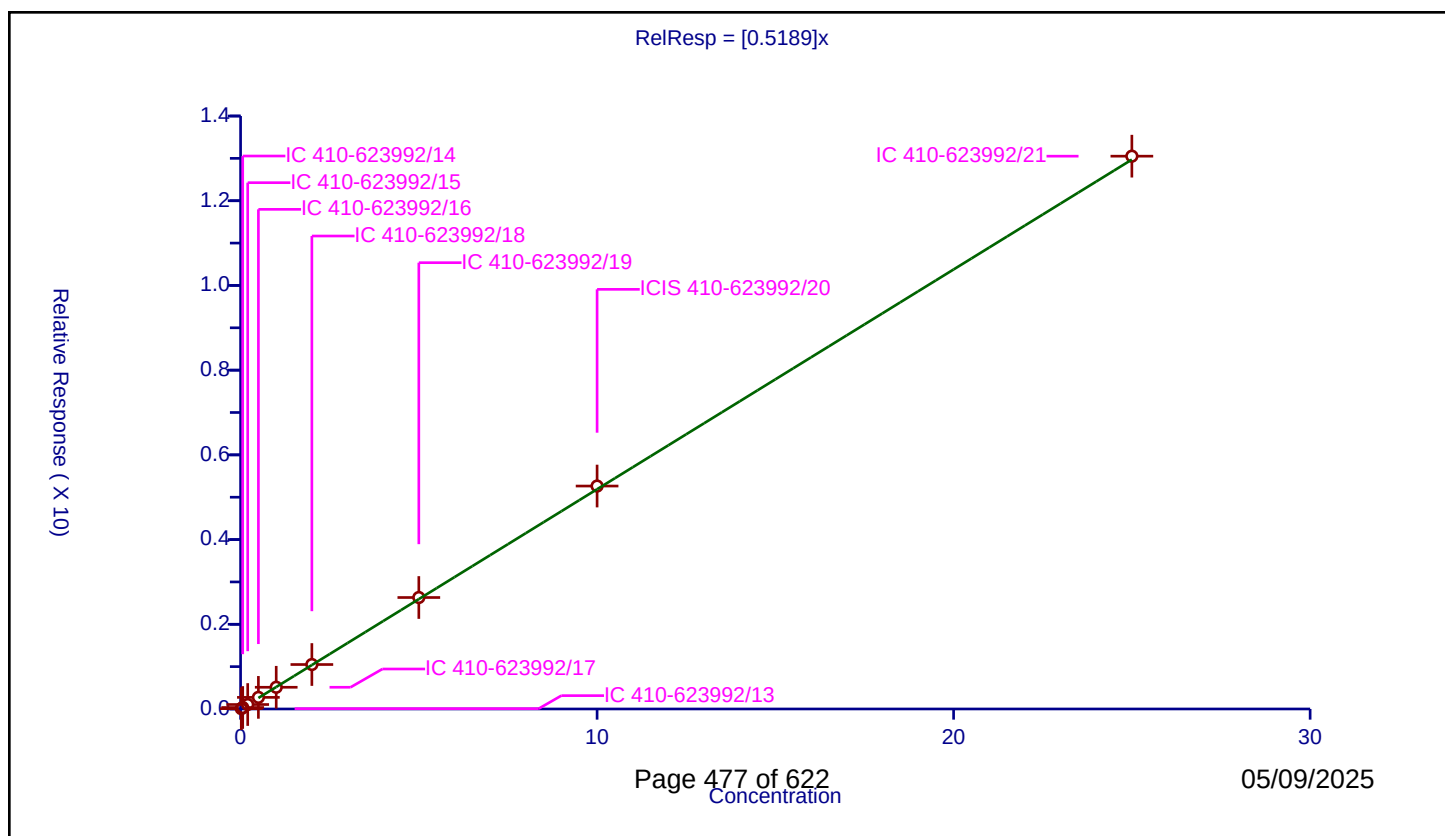
Curve Coefficients

Intercept: 0
Slope: 0.5189

Error Coefficients

Relative Standard Deviation: 9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.007972	10.0	1964341.0	0.398607	Y
2	IC 410-623992/14	0.06	0.034889	10.0	1965958.0	0.581481	Y
3	IC 410-623992/15	0.2	0.10559	10.0	2020747.0	0.527948	Y
4	IC 410-623992/16	0.5	0.274469	10.0	2019903.0	0.548937	Y
5	IC 410-623992/17	1.0	0.512823	10.0	2009620.0	0.512823	Y
6	IC 410-623992/18	2.0	1.05006	10.0	2036656.0	0.52503	Y
7	IC 410-623992/19	5.0	2.632072	10.0	2063762.0	0.526414	Y
8	ICIS 410-623992/20	10.0	5.263679	10.0	2055680.0	0.526368	Y
9	IC 410-623992/21	25.0	13.052051	10.0	2125436.0	0.522082	Y



Calibration

/ Isopropyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

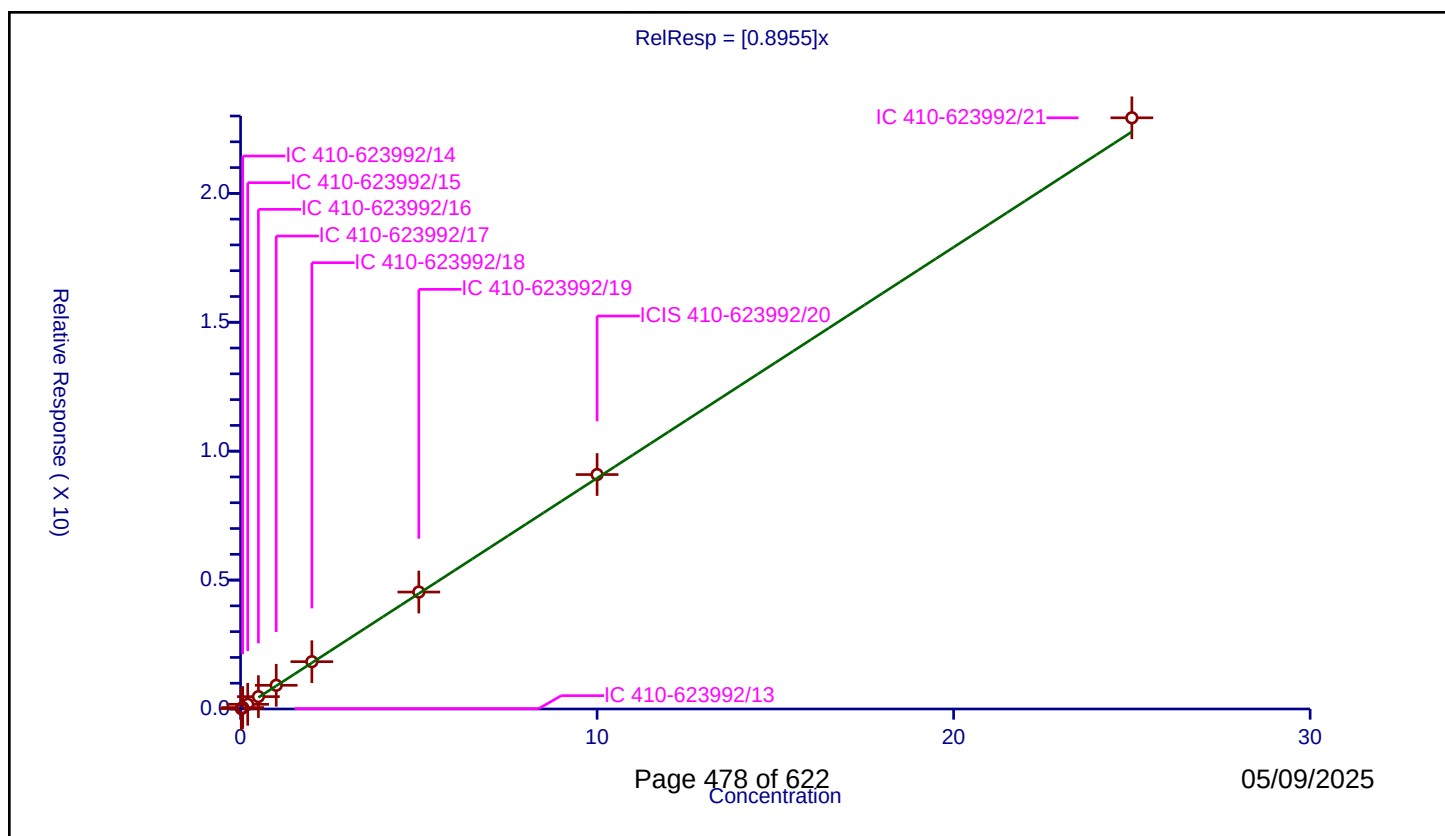
Curve Coefficients

Intercept: 0
 Slope: 0.8955

Error Coefficients

Relative Standard Deviation: 9.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.013689	10.0	1964341.0	0.684453	Y
2	IC 410-623992/14	0.06	0.056247	10.0	1965958.0	0.937456	Y
3	IC 410-623992/15	0.2	0.181591	10.0	2020747.0	0.907956	Y
4	IC 410-623992/16	0.5	0.479825	10.0	2019903.0	0.95965	Y
5	IC 410-623992/17	1.0	0.91888	10.0	2009620.0	0.91888	Y
6	IC 410-623992/18	2.0	1.834998	10.0	2036656.0	0.917499	Y
7	IC 410-623992/19	5.0	4.53624	10.0	2063762.0	0.907248	Y
8	ICIS 410-623992/20	10.0	9.093682	10.0	2055680.0	0.909368	Y
9	IC 410-623992/21	25.0	22.930923	10.0	2125436.0	0.917237	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

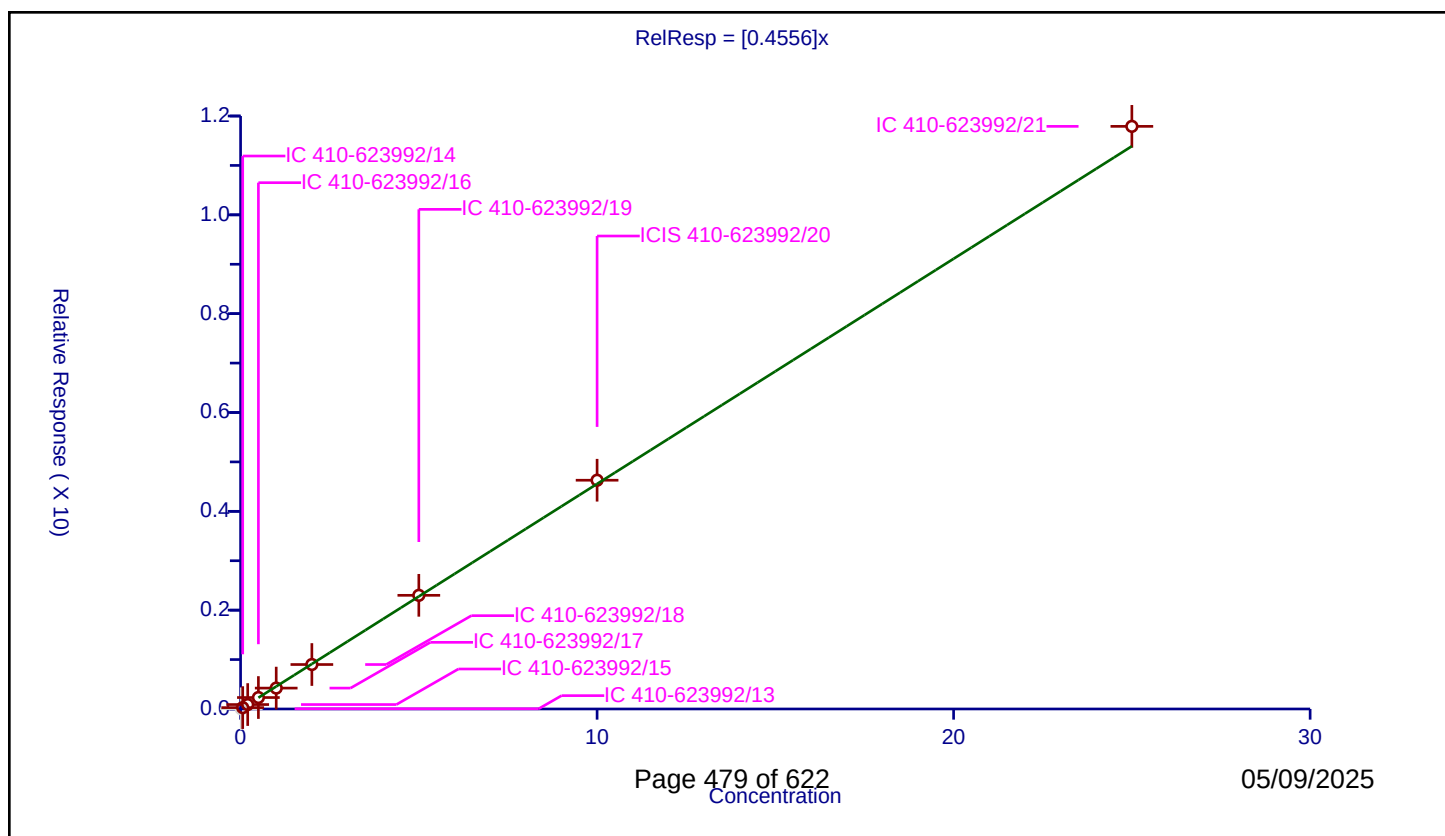
Curve Coefficients

Intercept: 0
Slope: 0.4556

Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.004342	10.0	1964341.0	0.217121	N
2	IC 410-623992/14	0.06	0.02788	10.0	1965958.0	0.464659	Y
3	IC 410-623992/15	0.2	0.089685	10.0	2020747.0	0.448423	Y
4	IC 410-623992/16	0.5	0.231902	10.0	2019903.0	0.463804	Y
5	IC 410-623992/17	1.0	0.422926	10.0	2009620.0	0.422926	Y
6	IC 410-623992/18	2.0	0.900034	10.0	2036656.0	0.450017	Y
7	IC 410-623992/19	5.0	2.300256	10.0	2063762.0	0.460051	Y
8	ICIS 410-623992/20	10.0	4.629256	10.0	2055680.0	0.462926	Y
9	IC 410-623992/21	25.0	11.790748	10.0	2125436.0	0.47163	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

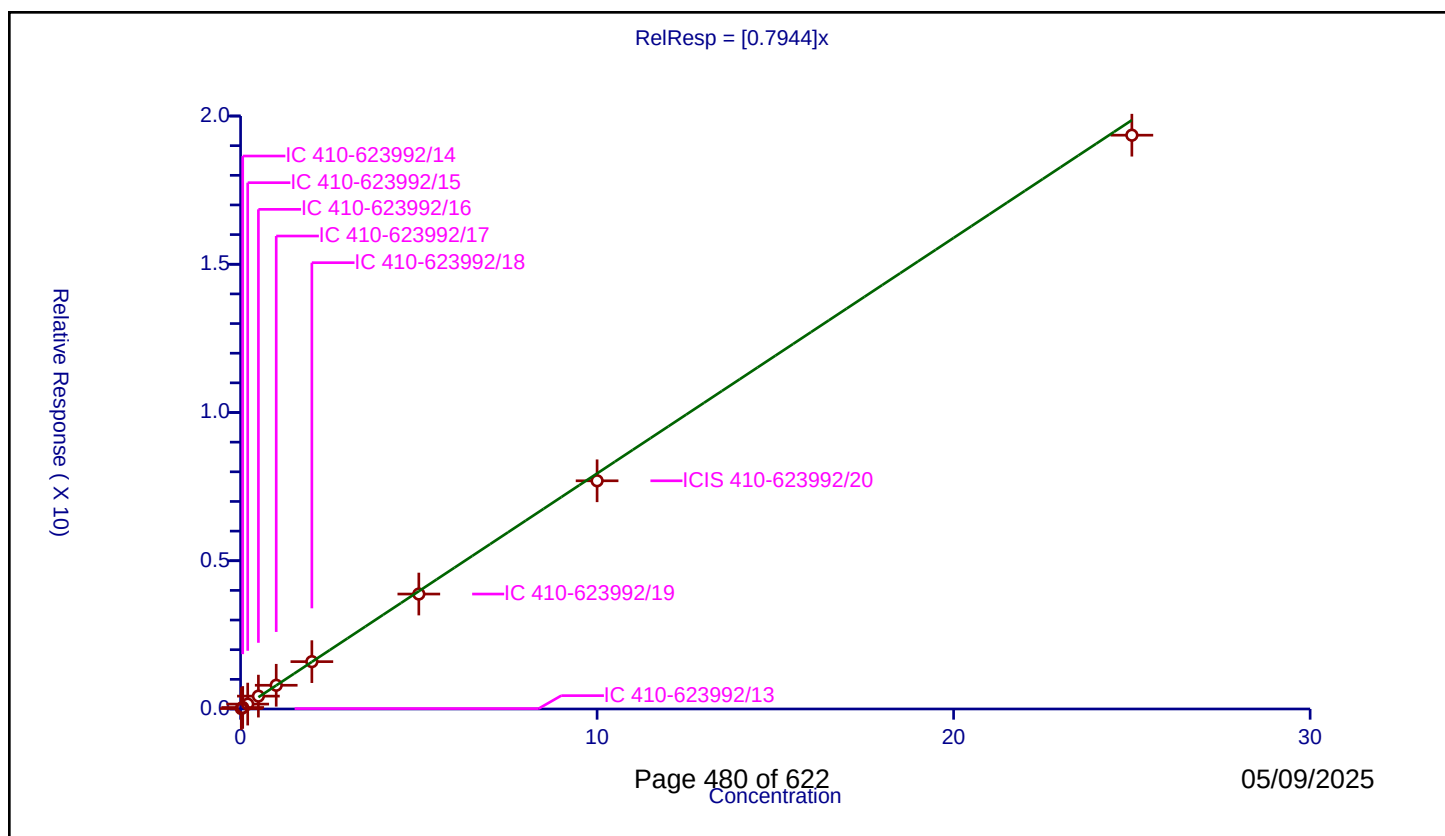
Curve Coefficients

Intercept: 0
Slope: 0.7944

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.013811	10.0	1964341.0	0.690562	Y
2	IC 410-623992/14	0.06	0.050952	10.0	1965958.0	0.849204	Y
3	IC 410-623992/15	0.2	0.164795	10.0	2020747.0	0.823977	Y
4	IC 410-623992/16	0.5	0.434224	10.0	2019903.0	0.868448	Y
5	IC 410-623992/17	1.0	0.800256	10.0	2009620.0	0.800256	Y
6	IC 410-623992/18	2.0	1.596715	10.0	2036656.0	0.798358	Y
7	IC 410-623992/19	5.0	3.876823	10.0	2063762.0	0.775365	Y
8	ICIS 410-623992/20	10.0	7.696733	10.0	2055680.0	0.769673	Y
9	IC 410-623992/21	25.0	19.35305	10.0	2125436.0	0.774122	Y



Calibration

/ 2-Butanone (MEK)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

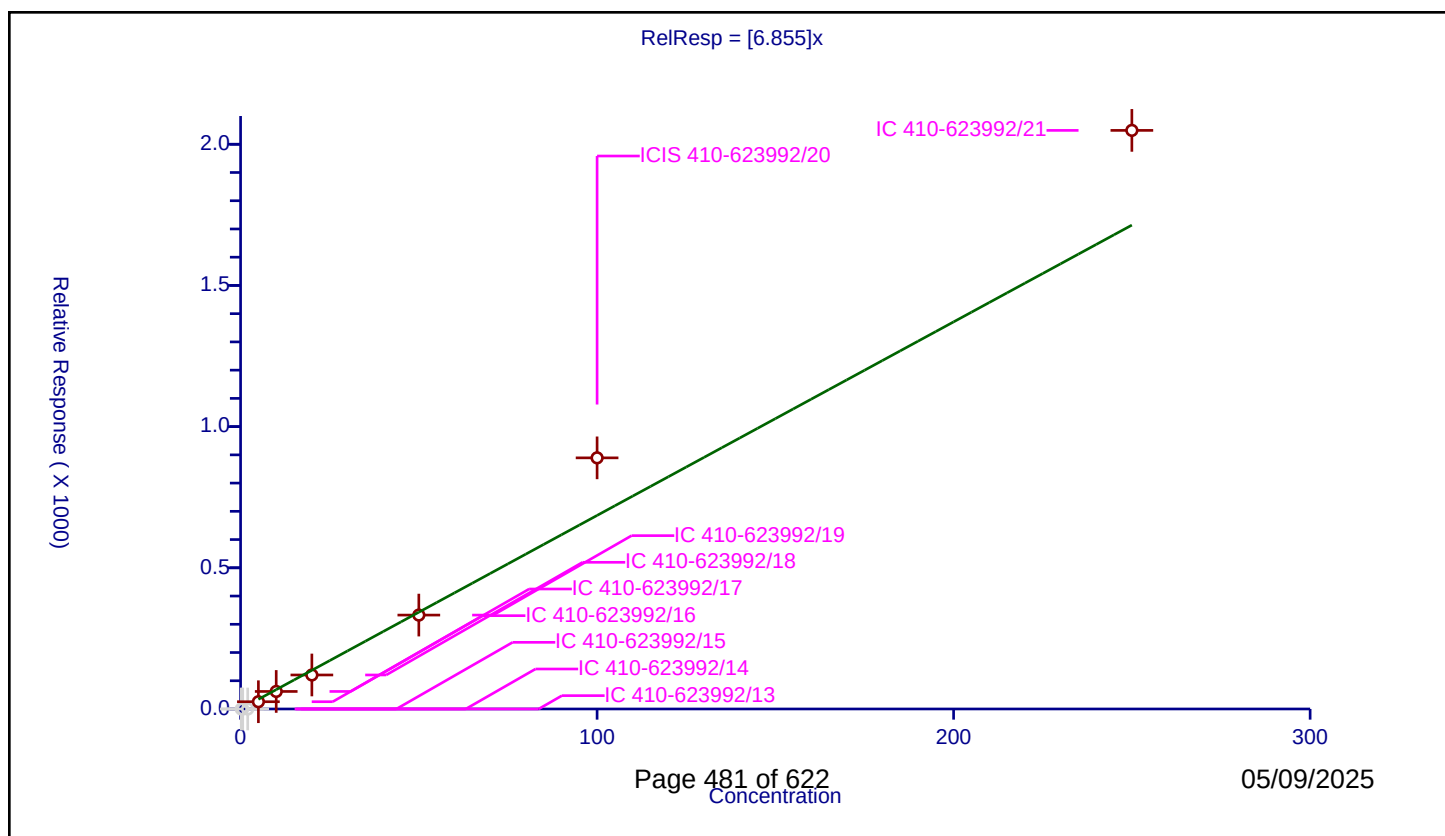
Curve Coefficients

Intercept: 0
Slope: 6.855

Error Coefficients

Relative Standard Deviation: 20.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.2	0.0	50.0	67983.0	0.0	N
2	IC 410-623992/14	0.6	0.0	50.0	69368.0	0.0	N
3	IC 410-623992/15	2.0	0.0	50.0	55174.0	0.0	N
4	IC 410-623992/16	5.0	25.765683	50.0	62232.0	5.153137	Y
5	IC 410-623992/17	10.0	62.08104	50.0	62685.0	6.208104	Y
6	IC 410-623992/18	20.0	120.486626	50.0	66026.0	6.024331	Y
7	IC 410-623992/19	50.0	332.593022	50.0	62136.0	6.65186	Y
8	ICIS 410-623992/20	100.0	889.380352	50.0	42040.0	8.893804	Y
9	IC 410-623992/21	250.0	2049.077297	50.0	53430.0	8.196309	Y



Calibration

/ 2,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

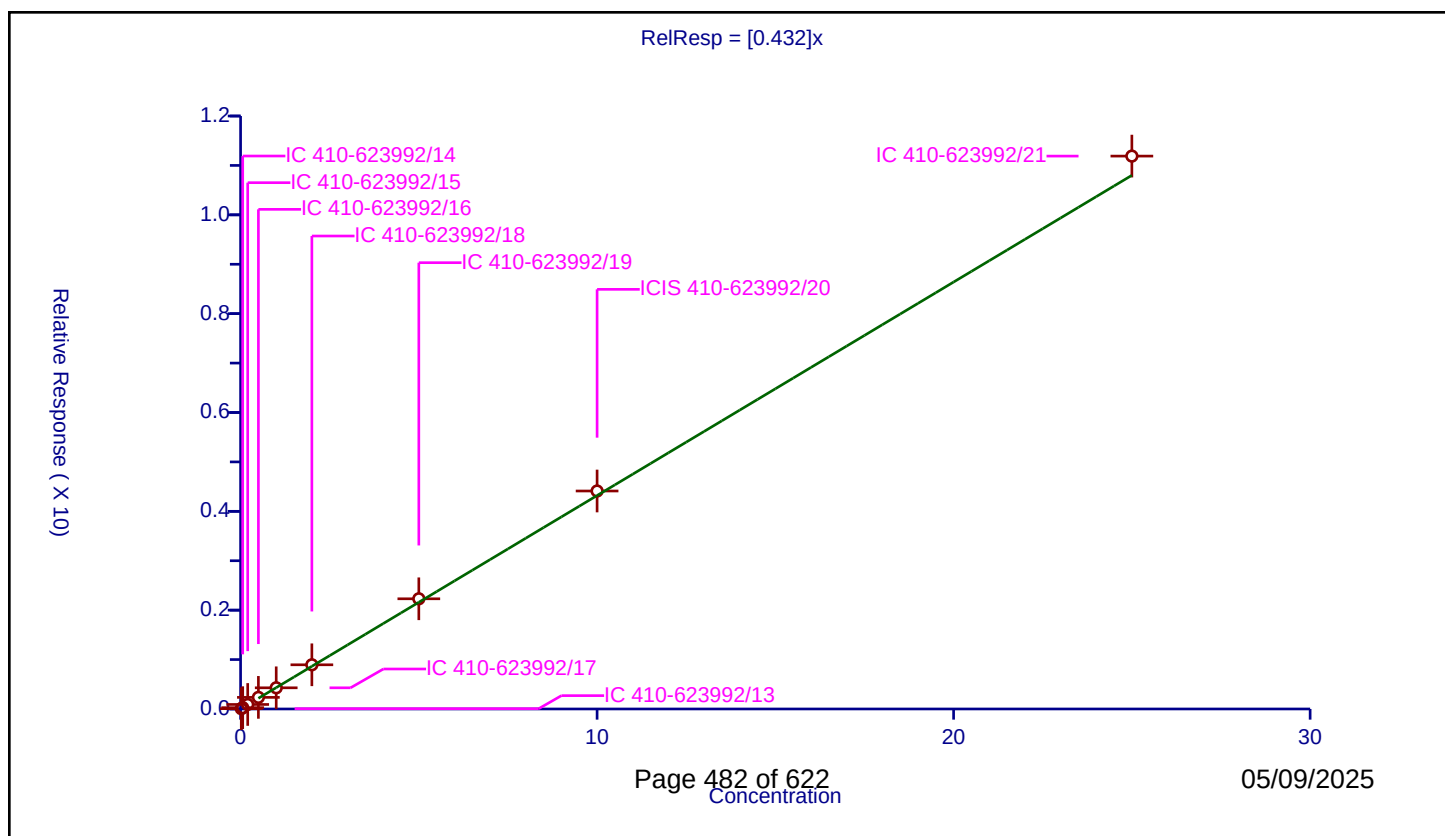
Curve Coefficients

Intercept: 0
Slope: 0.432

Error Coefficients

Relative Standard Deviation: 11.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.006089	10.0	1964341.0	0.304428	Y
2	IC 410-623992/14	0.06	0.026781	10.0	1965958.0	0.446347	Y
3	IC 410-623992/15	0.2	0.091219	10.0	2020747.0	0.456094	Y
4	IC 410-623992/16	0.5	0.235239	10.0	2019903.0	0.470478	Y
5	IC 410-623992/17	1.0	0.428569	10.0	2009620.0	0.428569	Y
6	IC 410-623992/18	2.0	0.894638	10.0	2036656.0	0.447319	Y
7	IC 410-623992/19	5.0	2.230359	10.0	2063762.0	0.446072	Y
8	ICIS 410-623992/20	10.0	4.411226	10.0	2055680.0	0.441123	Y
9	IC 410-623992/21	25.0	11.188716	10.0	2125436.0	0.447549	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

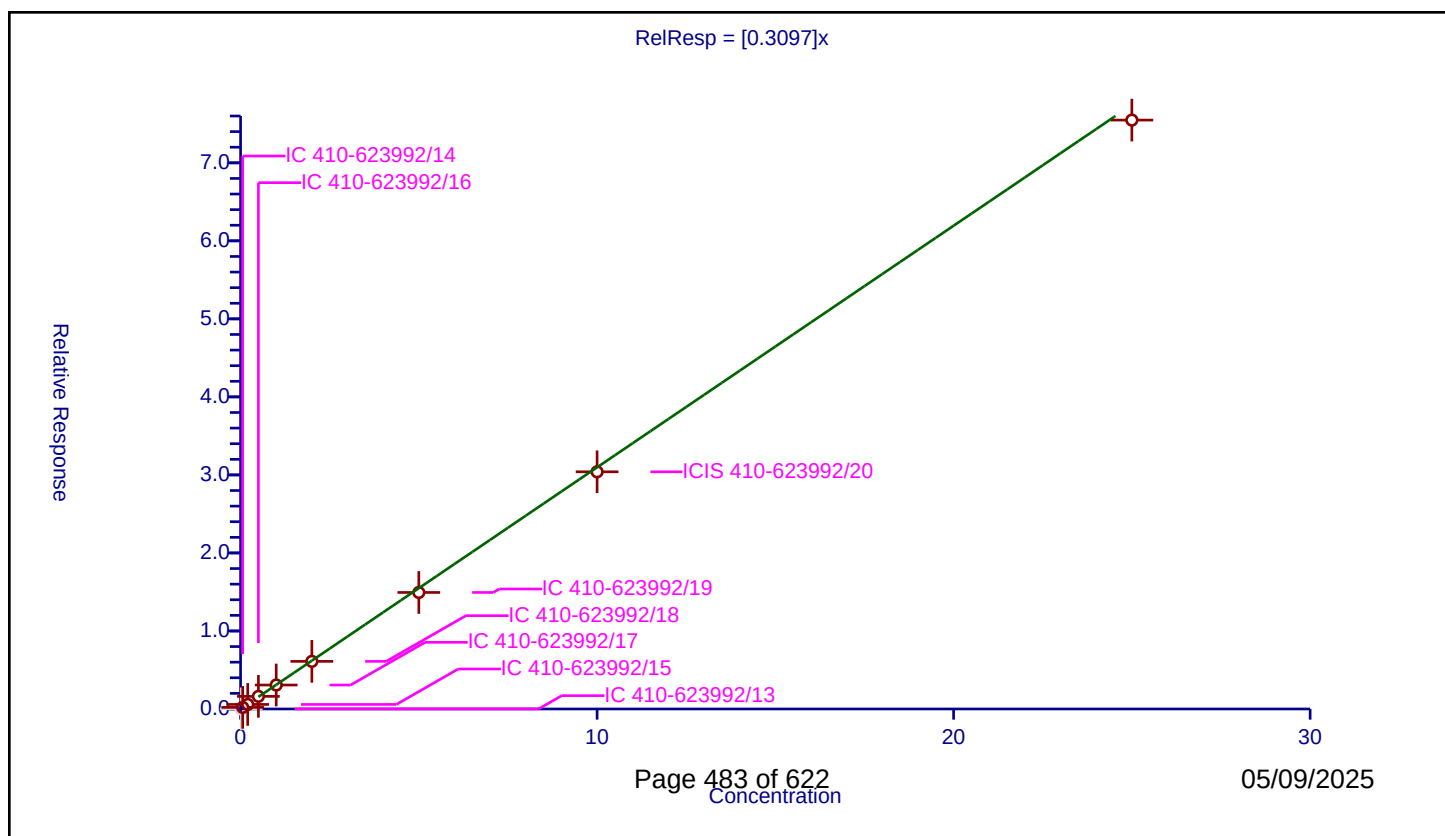
Curve Coefficients

Intercept: 0
Slope: 0.3097

Error Coefficients

Relative Standard Deviation: 5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.001293	10.0	1964341.0	0.064653	N
2	IC 410-623992/14	0.06	0.020763	10.0	1965958.0	0.346057	Y
3	IC 410-623992/15	0.2	0.058196	10.0	2020747.0	0.290982	Y
4	IC 410-623992/16	0.5	0.161953	10.0	2019903.0	0.323907	Y
5	IC 410-623992/17	1.0	0.306978	10.0	2009620.0	0.306978	Y
6	IC 410-623992/18	2.0	0.610201	10.0	2036656.0	0.305101	Y
7	IC 410-623992/19	5.0	1.493244	10.0	2063762.0	0.298649	Y
8	ICIS 410-623992/20	10.0	3.040089	10.0	2055680.0	0.304009	Y
9	IC 410-623992/21	25.0	7.547731	10.0	2125436.0	0.301909	Y



Calibration

/ Propionitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

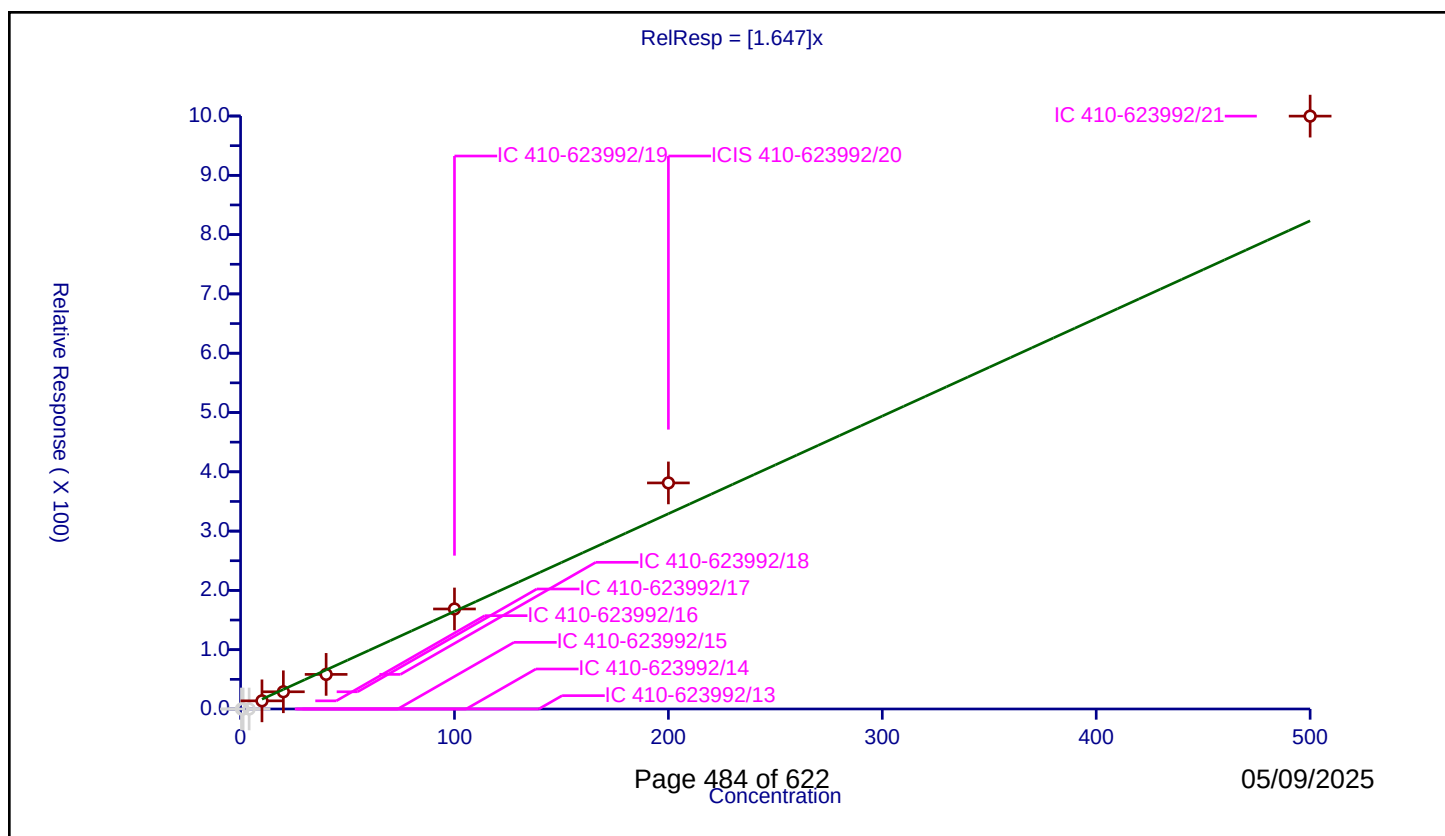
Curve Coefficients

Intercept: 0
Slope: 1.647

Error Coefficients

Relative Standard Deviation: 15.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.4	0.0	50.0	67983.0	0.0	N
2	IC 410-623992/14	1.2	0.0	50.0	69368.0	0.0	N
3	IC 410-623992/15	4.0	0.0	50.0	55174.0	0.0	N
4	IC 410-623992/16	10.0	13.758195	50.0	62232.0	1.37582	Y
5	IC 410-623992/17	20.0	29.035654	50.0	62685.0	1.451783	Y
6	IC 410-623992/18	40.0	58.365644	50.0	66026.0	1.459141	Y
7	IC 410-623992/19	100.0	168.65907	50.0	62136.0	1.686591	Y
8	ICIS 410-623992/20	200.0	381.242864	50.0	42040.0	1.906214	Y
9	IC 410-623992/21	500.0	999.832491	50.0	53430.0	1.999665	Y



Calibration

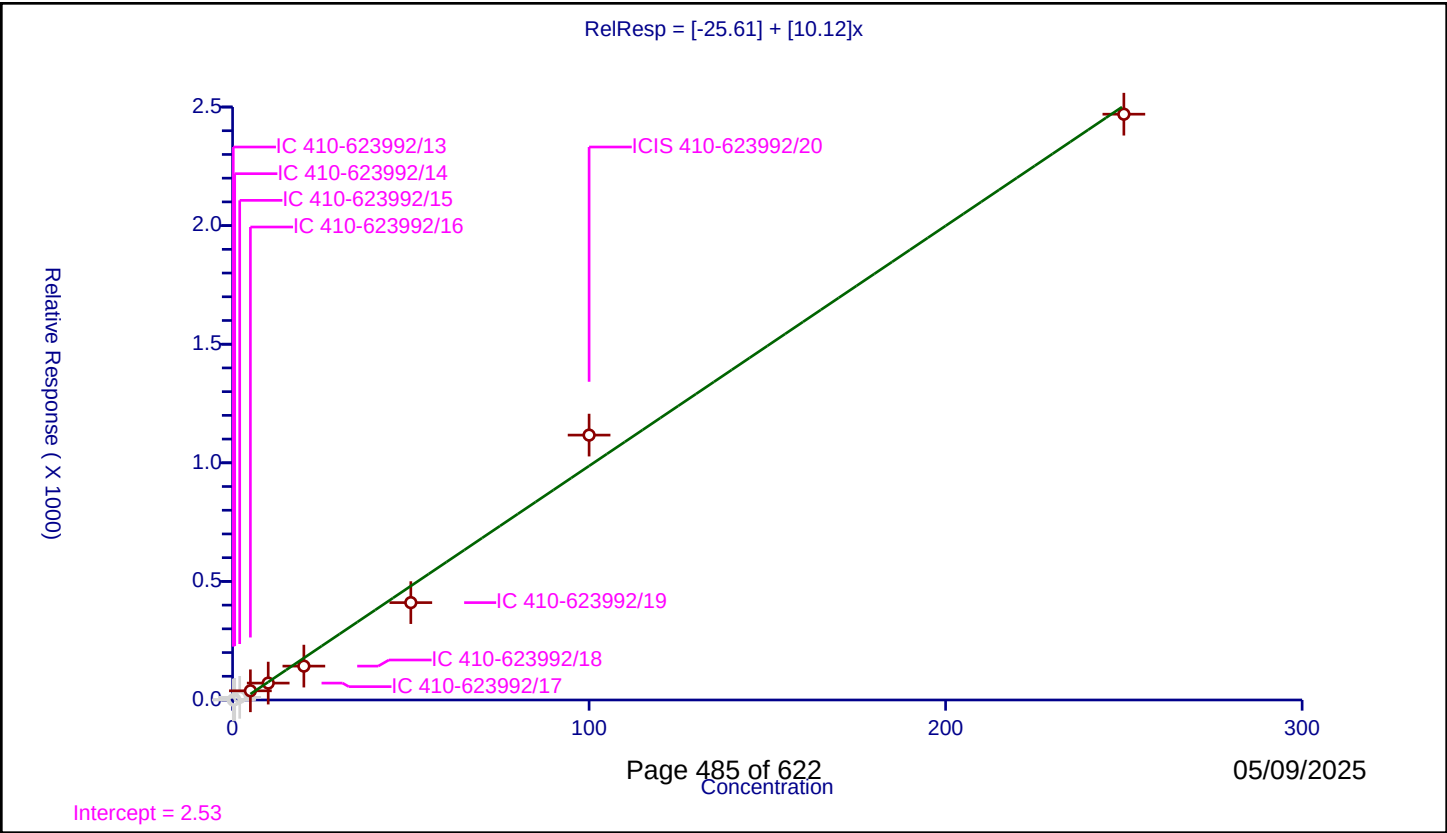
/ Methacrylonitrile

Curve Type: Linear
Weighting: None
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	-25.61
Slope:	10.12
Error Coefficients	

Relative Standard Deviation: 18.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.2	0.0	50.0	67983.0	0.0	N
2	IC 410-623992/14	0.6	2.515569	50.0	69368.0	4.192615	N
3	IC 410-623992/15	2.0	11.212709	50.0	55174.0	5.606354	N
4	IC 410-623992/16	5.0	38.746947	50.0	62232.0	7.749389	Y
5	IC 410-623992/17	10.0	71.27702	50.0	62685.0	7.127702	Y
6	IC 410-623992/18	20.0	142.820253	50.0	66026.0	7.141013	Y
7	IC 410-623992/19	50.0	410.503573	50.0	62136.0	8.210071	Y
8	ICIS 410-623992/20	100.0	1116.794719	50.0	42040.0	11.167947	Y
9	IC 410-623992/21	250.0	2469.771664	50.0	53430.0	9.879087	Y



Calibration

/ Chlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

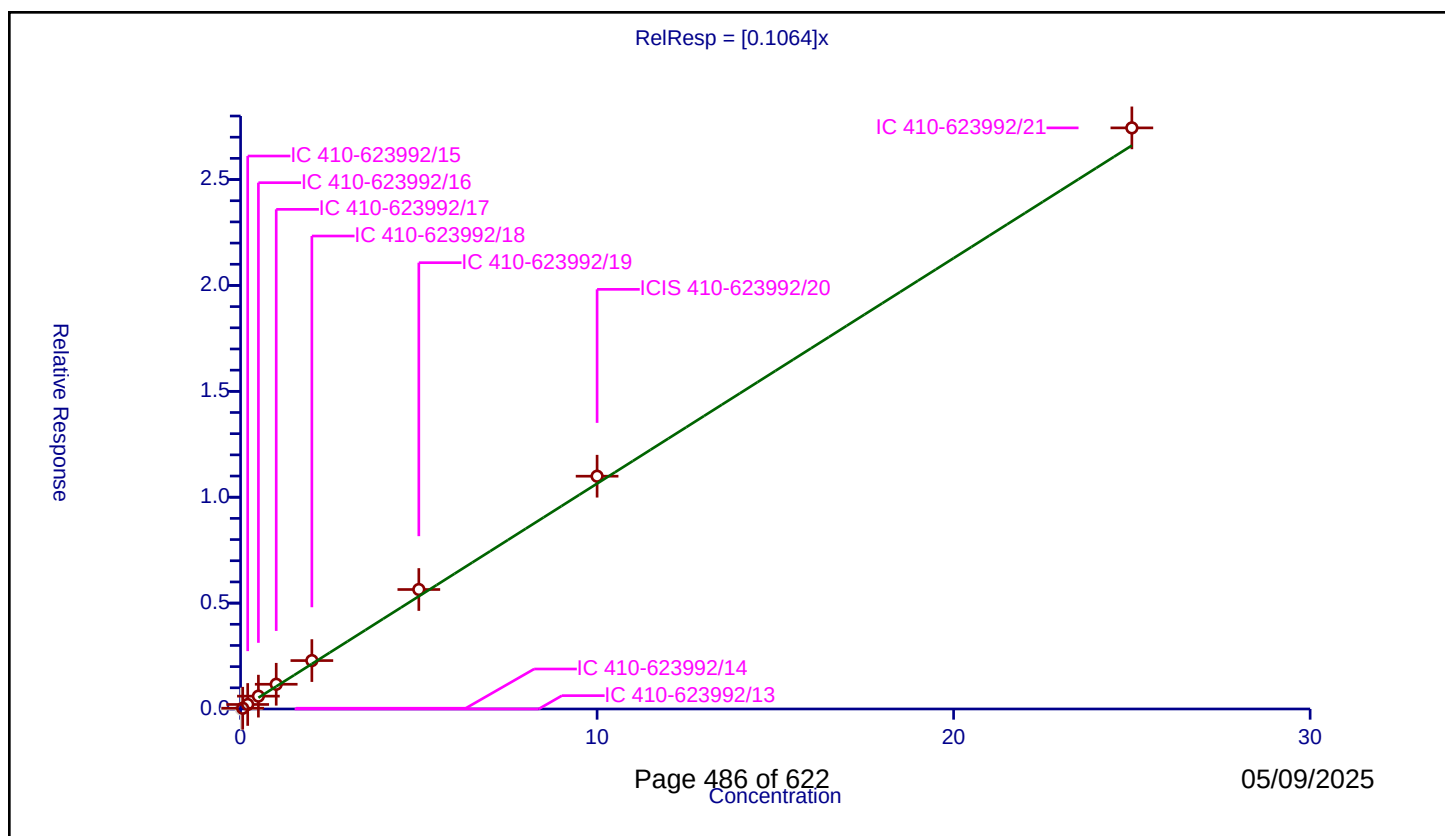
Curve Coefficients

Intercept: 0
Slope: 0.1064

Error Coefficients

Relative Standard Deviation: 18.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.0	10.0	1964341.0	0.0	N
2	IC 410-623992/14	0.06	0.003611	10.0	1965958.0	0.060191	Y
3	IC 410-623992/15	0.2	0.021309	10.0	2020747.0	0.106545	Y
4	IC 410-623992/16	0.5	0.060597	10.0	2019903.0	0.121194	Y
5	IC 410-623992/17	1.0	0.116758	10.0	2009620.0	0.116758	Y
6	IC 410-623992/18	2.0	0.228566	10.0	2036656.0	0.114283	Y
7	IC 410-623992/19	5.0	0.564178	10.0	2063762.0	0.112836	Y
8	ICIS 410-623992/20	10.0	1.099189	10.0	2055680.0	0.109919	Y
9	IC 410-623992/21	25.0	2.743926	10.0	2125436.0	0.109757	Y



Calibration

/ Tetrahydrofuran

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

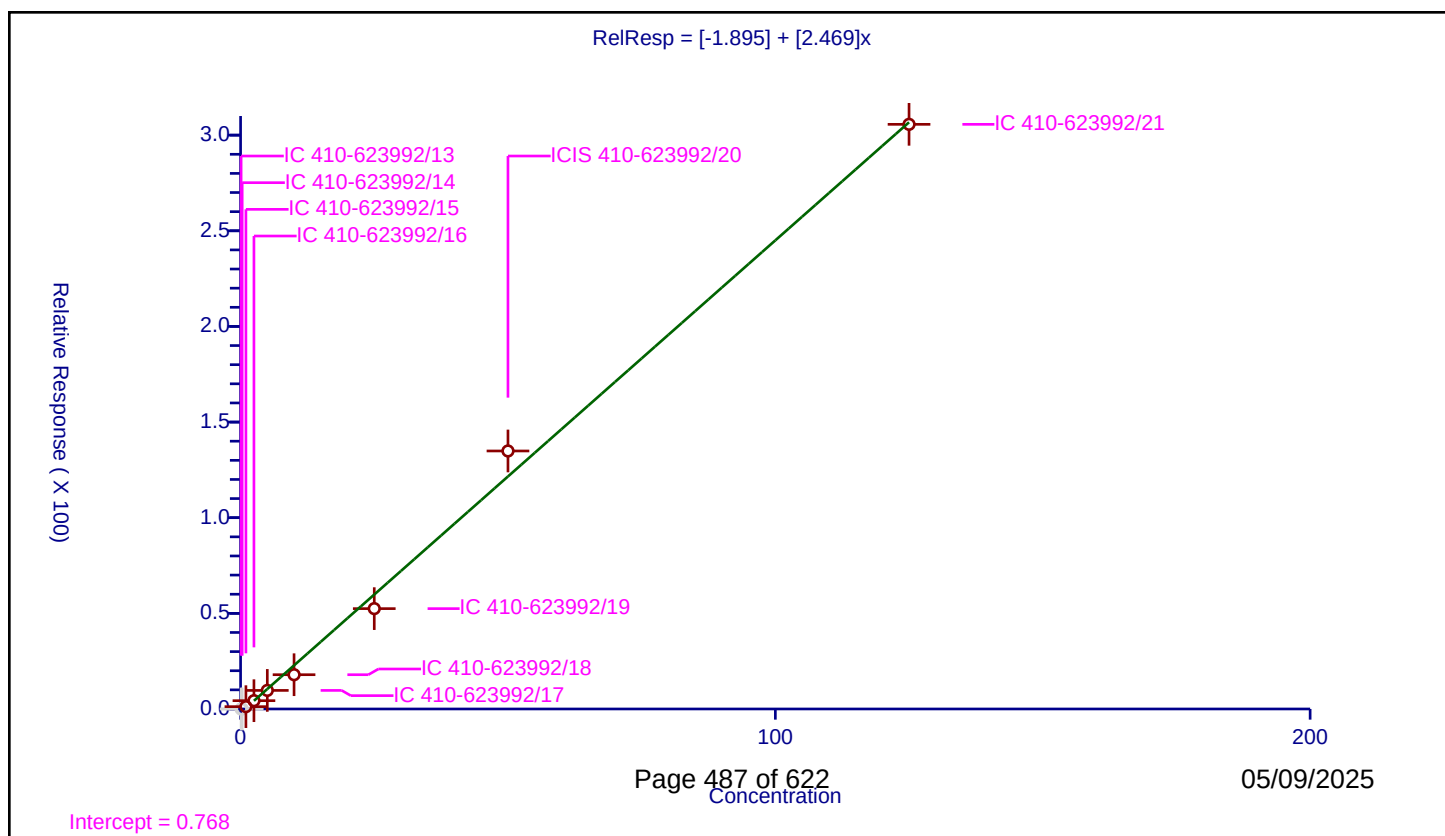
Curve Coefficients

Intercept: -1.895
Slope: 2.469

Error Coefficients

Relative Standard Deviation: 16.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.1	0.0	50.0	67983.0	0.0	N
2	IC 410-623992/14	0.3	0.0	50.0	69368.0	0.0	N
3	IC 410-623992/15	1.0	1.22159	50.0	55174.0	1.22159	Y
4	IC 410-623992/16	2.5	4.336194	50.0	62232.0	1.734477	Y
5	IC 410-623992/17	5.0	9.707266	50.0	62685.0	1.941453	Y
6	IC 410-623992/18	10.0	17.923242	50.0	66026.0	1.792324	Y
7	IC 410-623992/19	25.0	52.470388	50.0	62136.0	2.098816	Y
8	ICIS 410-623992/20	50.0	134.889391	50.0	42040.0	2.697788	Y
9	IC 410-623992/21	125.0	305.654127	50.0	53430.0	2.445233	Y



Calibration

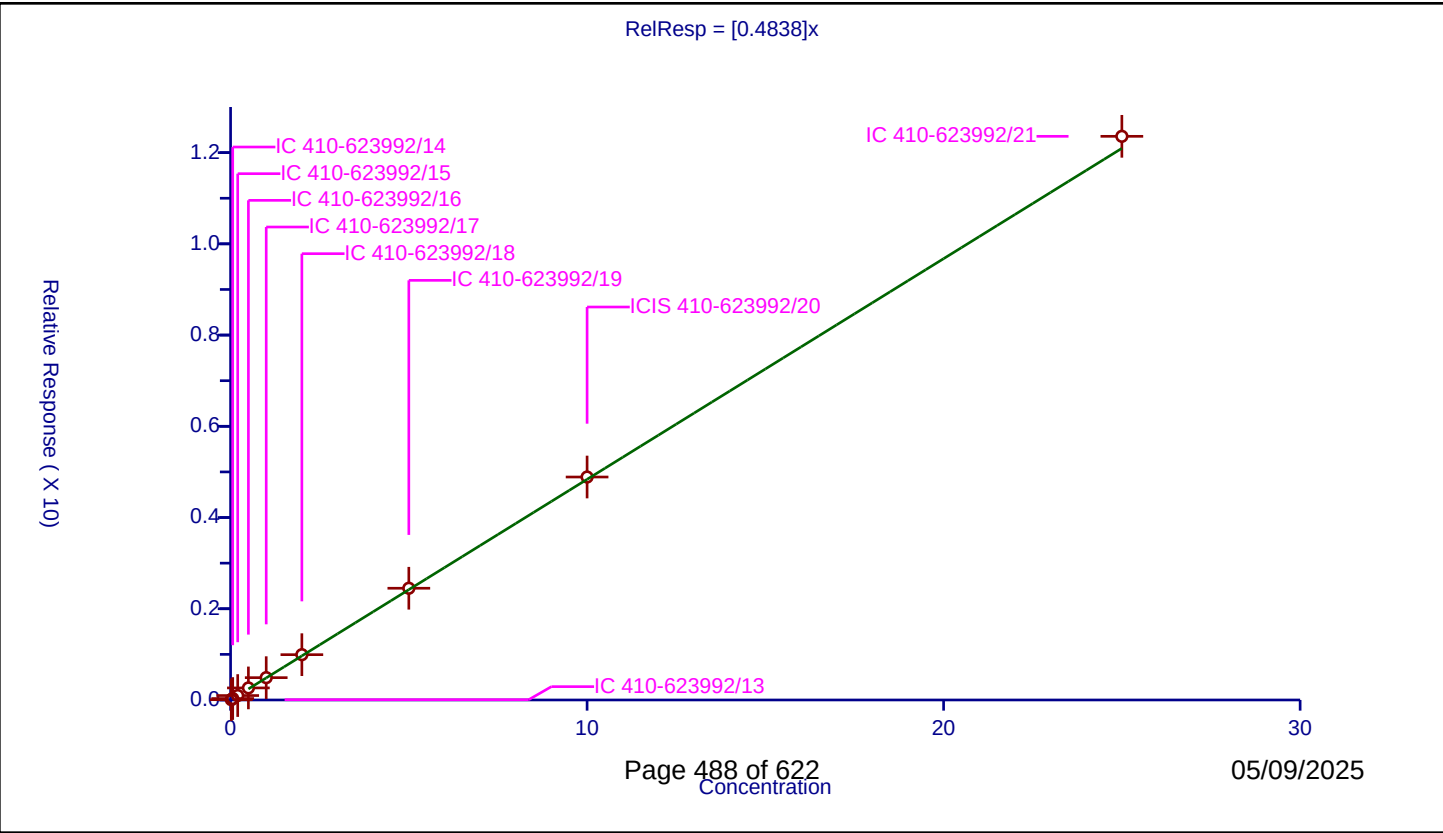
/ Chloroform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4838
Error Coefficients	

Relative Standard Deviation: 11.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.006929	10.0	1964341.0	0.346427	Y
2	IC 410-623992/14	0.06	0.031923	10.0	1965958.0	0.532056	Y
3	IC 410-623992/15	0.2	0.097474	10.0	2020747.0	0.487369	Y
4	IC 410-623992/16	0.5	0.26428	10.0	2019903.0	0.52856	Y
5	IC 410-623992/17	1.0	0.489635	10.0	2009620.0	0.489635	Y
6	IC 410-623992/18	2.0	0.993594	10.0	2036656.0	0.496797	Y
7	IC 410-623992/19	5.0	2.449953	10.0	2063762.0	0.489991	Y
8	ICIS 410-623992/20	10.0	4.888217	10.0	2055680.0	0.488822	Y
9	IC 410-623992/21	25.0	12.357479	10.0	2125436.0	0.494299	Y



Calibration

/ Dibromofluoromethane (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

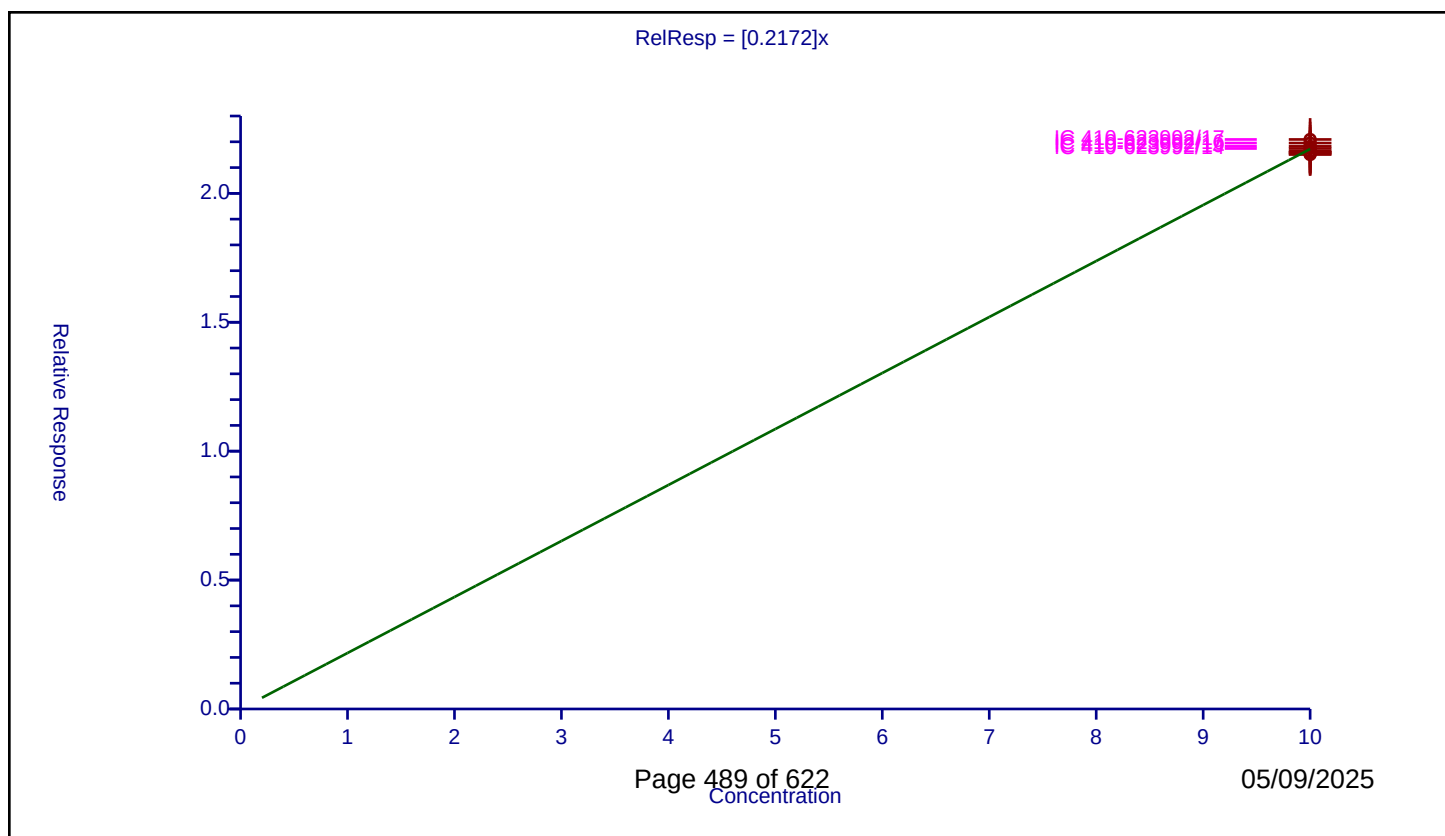
Curve Coefficients

Intercept: 0
 Slope: 0.2172

Error Coefficients

Relative Standard Deviation: 0.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	10.0	2.159019	10.0	1964341.0	0.215902	Y
2	IC 410-623992/14	10.0	2.173897	10.0	1965958.0	0.21739	Y
3	IC 410-623992/15	10.0	2.15308	10.0	2020747.0	0.215308	Y
4	IC 410-623992/16	10.0	2.19512	10.0	2019903.0	0.219512	Y
5	IC 410-623992/17	10.0	2.209079	10.0	2009620.0	0.220908	Y
6	IC 410-623992/18	10.0	2.163841	10.0	2036656.0	0.216384	Y
7	IC 410-623992/19	10.0	2.182253	10.0	2063762.0	0.218225	Y
8	ICIS 410-623992/20	10.0	2.150597	10.0	2055680.0	0.21506	Y
9	IC 410-623992/21	10.0	2.160192	10.0	2125436.0	0.216019	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

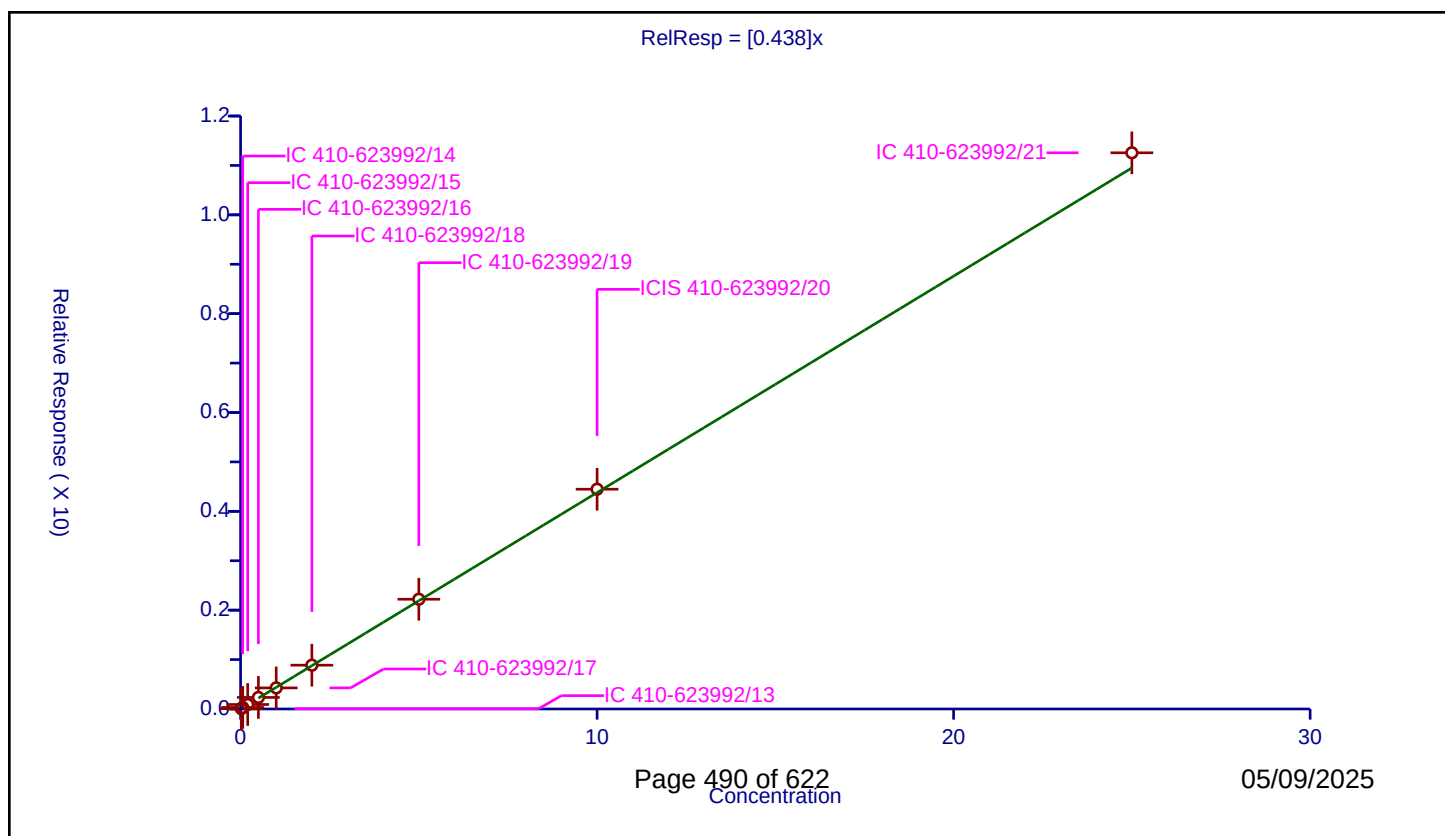
Curve Coefficients

Intercept: 0
Slope: 0.438

Error Coefficients

Relative Standard Deviation: 13.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.005865	10.0	1964341.0	0.293228	Y
2	IC 410-623992/14	0.06	0.031079	10.0	1965958.0	0.517983	Y
3	IC 410-623992/15	0.2	0.090828	10.0	2020747.0	0.454139	Y
4	IC 410-623992/16	0.5	0.233719	10.0	2019903.0	0.467438	Y
5	IC 410-623992/17	1.0	0.426817	10.0	2009620.0	0.426817	Y
6	IC 410-623992/18	2.0	0.886257	10.0	2036656.0	0.443128	Y
7	IC 410-623992/19	5.0	2.220833	10.0	2063762.0	0.444167	Y
8	ICIS 410-623992/20	10.0	4.44755	10.0	2055680.0	0.444755	Y
9	IC 410-623992/21	25.0	11.255738	10.0	2125436.0	0.45023	Y



Calibration

/ Cyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

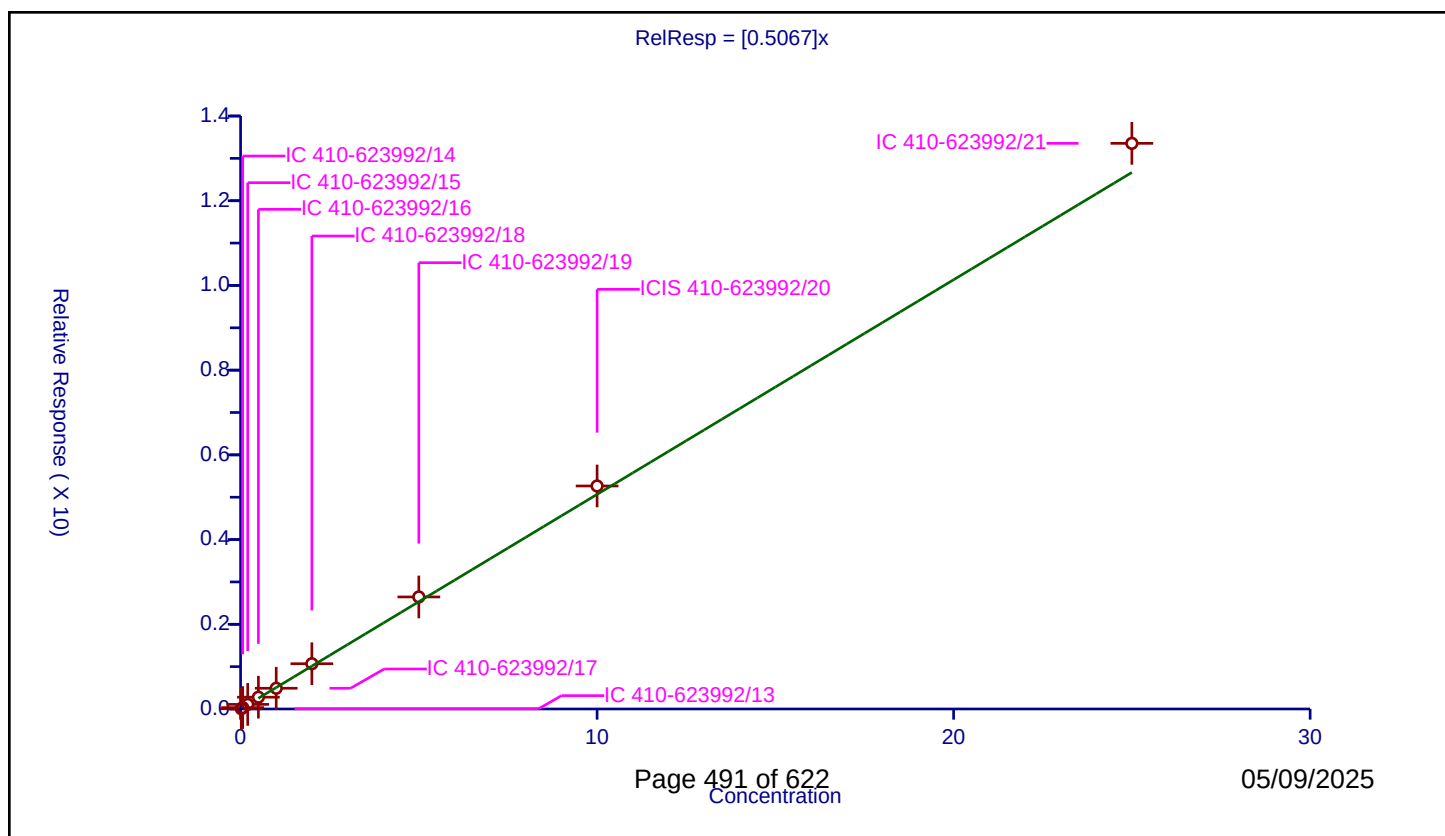
Curve Coefficients

Intercept: 0
Slope: 0.5067

Error Coefficients

Relative Standard Deviation: 16.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.005941	10.0	1964341.0	0.297046	Y
2	IC 410-623992/14	0.06	0.032951	10.0	1965958.0	0.549181	Y
3	IC 410-623992/15	0.2	0.108772	10.0	2020747.0	0.543858	Y
4	IC 410-623992/16	0.5	0.27834	10.0	2019903.0	0.55668	Y
5	IC 410-623992/17	1.0	0.489665	10.0	2009620.0	0.489665	Y
6	IC 410-623992/18	2.0	1.068511	10.0	2036656.0	0.534256	Y
7	IC 410-623992/19	5.0	2.645208	10.0	2063762.0	0.529042	Y
8	ICIS 410-623992/20	10.0	5.265182	10.0	2055680.0	0.526518	Y
9	IC 410-623992/21	25.0	13.354385	10.0	2125436.0	0.534175	Y



Calibration

/ 1,1-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

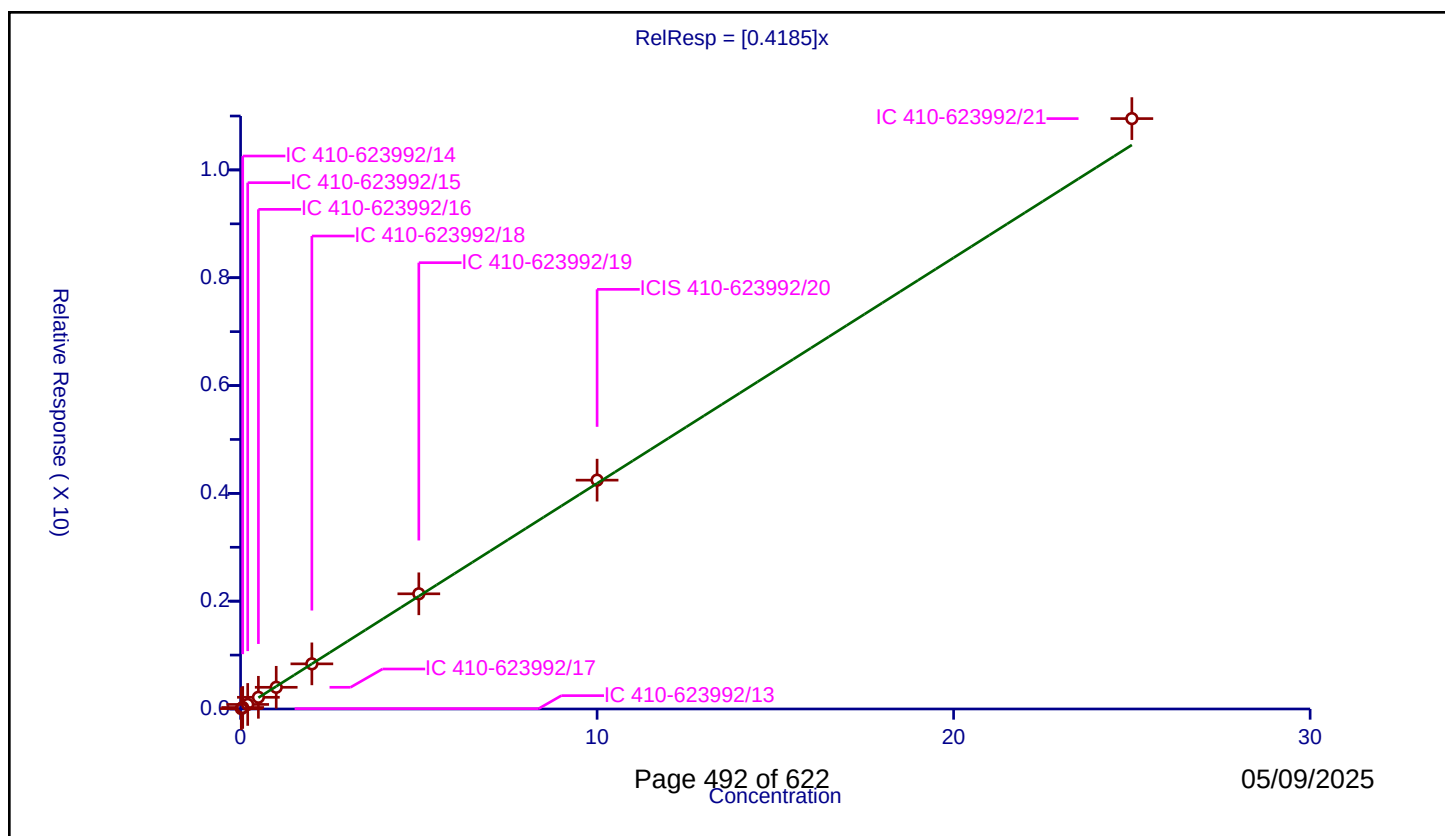
Curve Coefficients

Intercept: 0
Slope: 0.4185

Error Coefficients

Relative Standard Deviation: 8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.006745	10.0	1964341.0	0.337263	Y
2	IC 410-623992/14	0.06	0.027818	10.0	1965958.0	0.463642	Y
3	IC 410-623992/15	0.2	0.084335	10.0	2020747.0	0.421676	Y
4	IC 410-623992/16	0.5	0.216699	10.0	2019903.0	0.433397	Y
5	IC 410-623992/17	1.0	0.402181	10.0	2009620.0	0.402181	Y
6	IC 410-623992/18	2.0	0.837044	10.0	2036656.0	0.418522	Y
7	IC 410-623992/19	5.0	2.136894	10.0	2063762.0	0.427379	Y
8	ICIS 410-623992/20	10.0	4.245296	10.0	2055680.0	0.42453	Y
9	IC 410-623992/21	25.0	10.952087	10.0	2125436.0	0.438083	Y



Calibration

/ Carbon tetrachloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

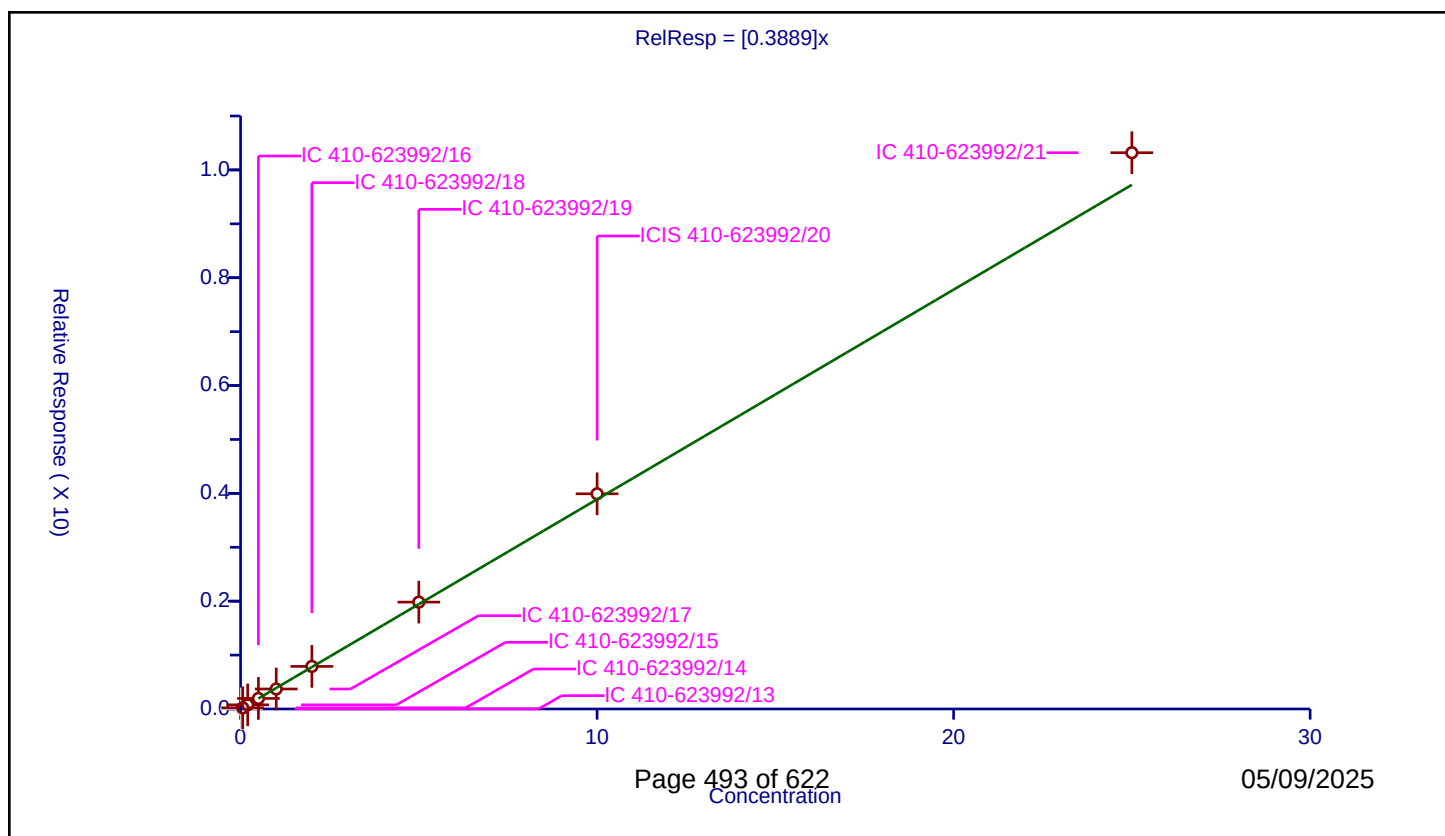
Curve Coefficients

Intercept: 0
Slope: 0.3889

Error Coefficients

Relative Standard Deviation: 4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.002388	10.0	1964341.0	0.119378	N
2	IC 410-623992/14	0.06	0.021725	10.0	1965958.0	0.36208	Y
3	IC 410-623992/15	0.2	0.076813	10.0	2020747.0	0.384066	Y
4	IC 410-623992/16	0.5	0.195678	10.0	2019903.0	0.391355	Y
5	IC 410-623992/17	1.0	0.370682	10.0	2009620.0	0.370682	Y
6	IC 410-623992/18	2.0	0.789804	10.0	2036656.0	0.394902	Y
7	IC 410-623992/19	5.0	1.982588	10.0	2063762.0	0.396518	Y
8	ICIS 410-623992/20	10.0	3.992076	10.0	2055680.0	0.399208	Y
9	IC 410-623992/21	25.0	10.31936	10.0	2125436.0	0.412774	Y



Calibration

/ Isobutyl alcohol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

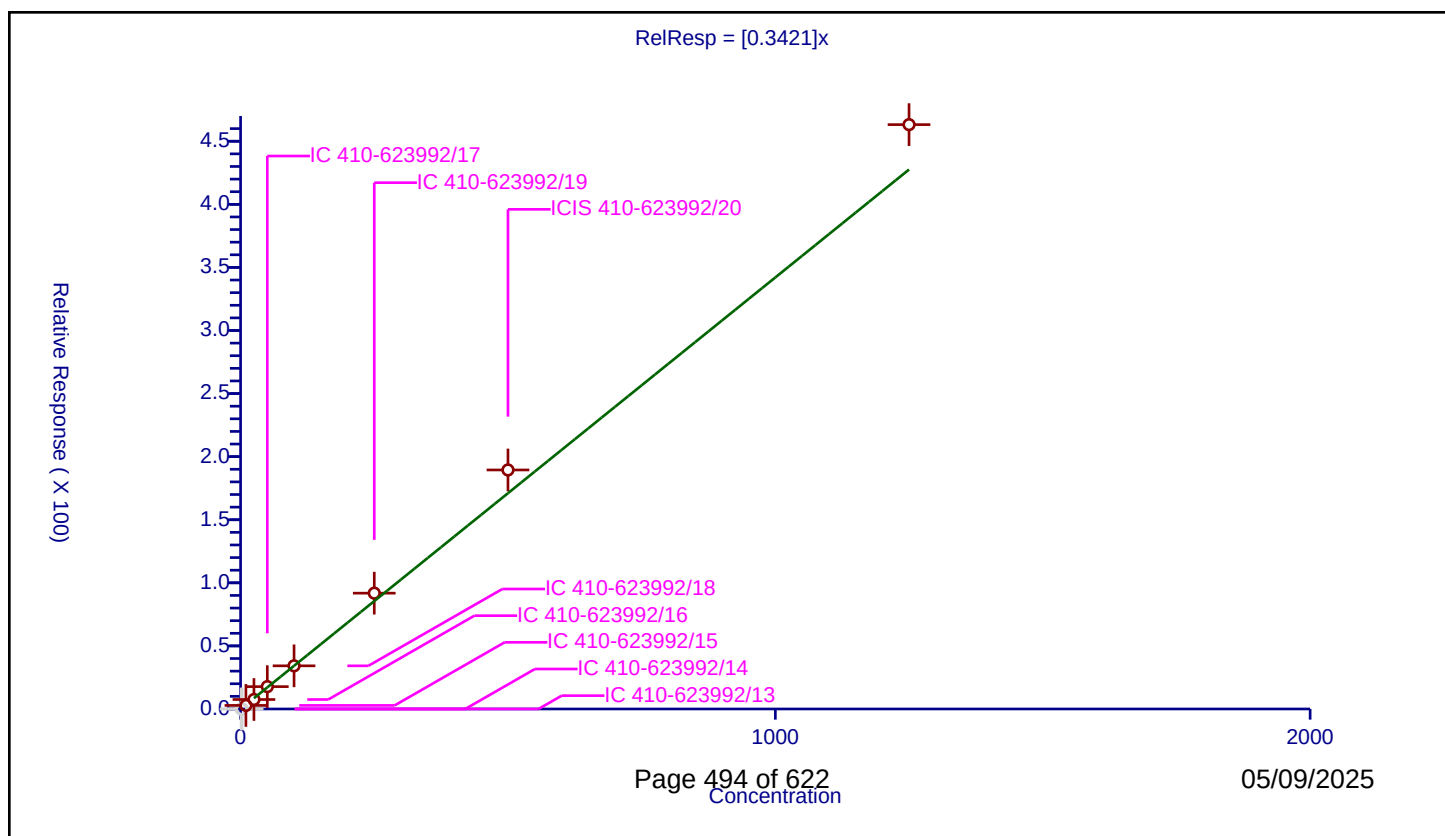
Curve Coefficients

Intercept: 0
Slope: 0.3421

Error Coefficients

Relative Standard Deviation: 10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	1.0	0.0	50.0	67983.0	0.0	N
2	IC 410-623992/14	3.0	0.0	50.0	69368.0	0.0	N
3	IC 410-623992/15	10.0	2.812013	50.0	55174.0	0.281201	Y
4	IC 410-623992/16	25.0	7.503374	50.0	62232.0	0.300135	Y
5	IC 410-623992/17	50.0	17.720348	50.0	62685.0	0.354407	Y
6	IC 410-623992/18	100.0	34.202435	50.0	66026.0	0.342024	Y
7	IC 410-623992/19	250.0	91.808291	50.0	62136.0	0.367233	Y
8	ICIS 410-623992/20	500.0	189.460038	50.0	42040.0	0.37892	Y
9	IC 410-623992/21	1250.0	463.182669	50.0	53430.0	0.370546	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

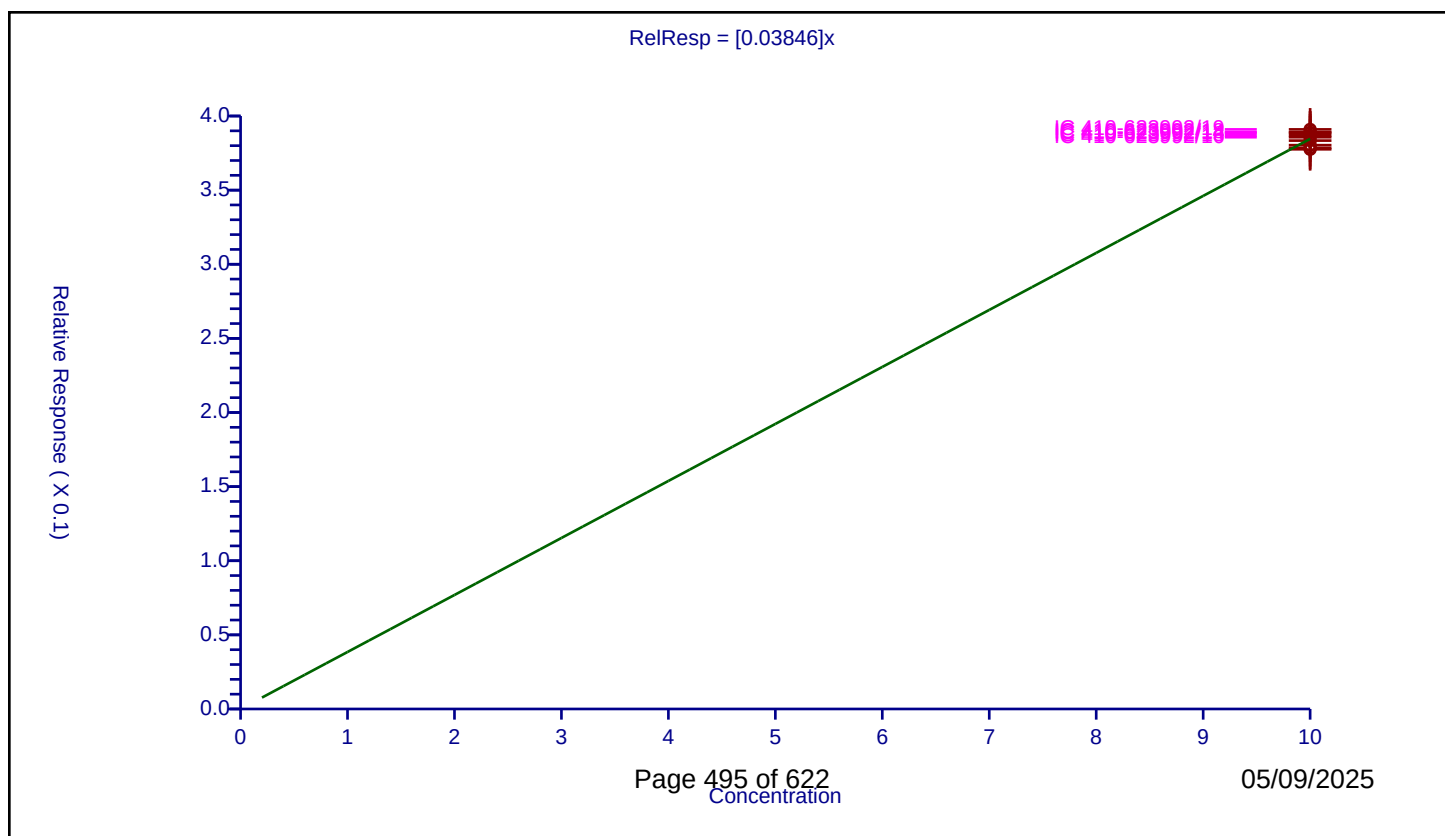
Curve Coefficients

Intercept: 0
 Slope: 0.03846

Error Coefficients

Relative Standard Deviation: 1.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	10.0	0.386959	10.0	1964341.0	0.038696	Y
2	IC 410-623992/14	10.0	0.388681	10.0	1965958.0	0.038868	Y
3	IC 410-623992/15	10.0	0.377544	10.0	2020747.0	0.037754	Y
4	IC 410-623992/16	10.0	0.385692	10.0	2019903.0	0.038569	Y
5	IC 410-623992/17	10.0	0.383411	10.0	2009620.0	0.038341	Y
6	IC 410-623992/18	10.0	0.389015	10.0	2036656.0	0.038902	Y
7	IC 410-623992/19	10.0	0.39097	10.0	2063762.0	0.039097	Y
8	ICIS 410-623992/20	10.0	0.380346	10.0	2055680.0	0.038035	Y
9	IC 410-623992/21	10.0	0.378435	10.0	2125436.0	0.037844	Y

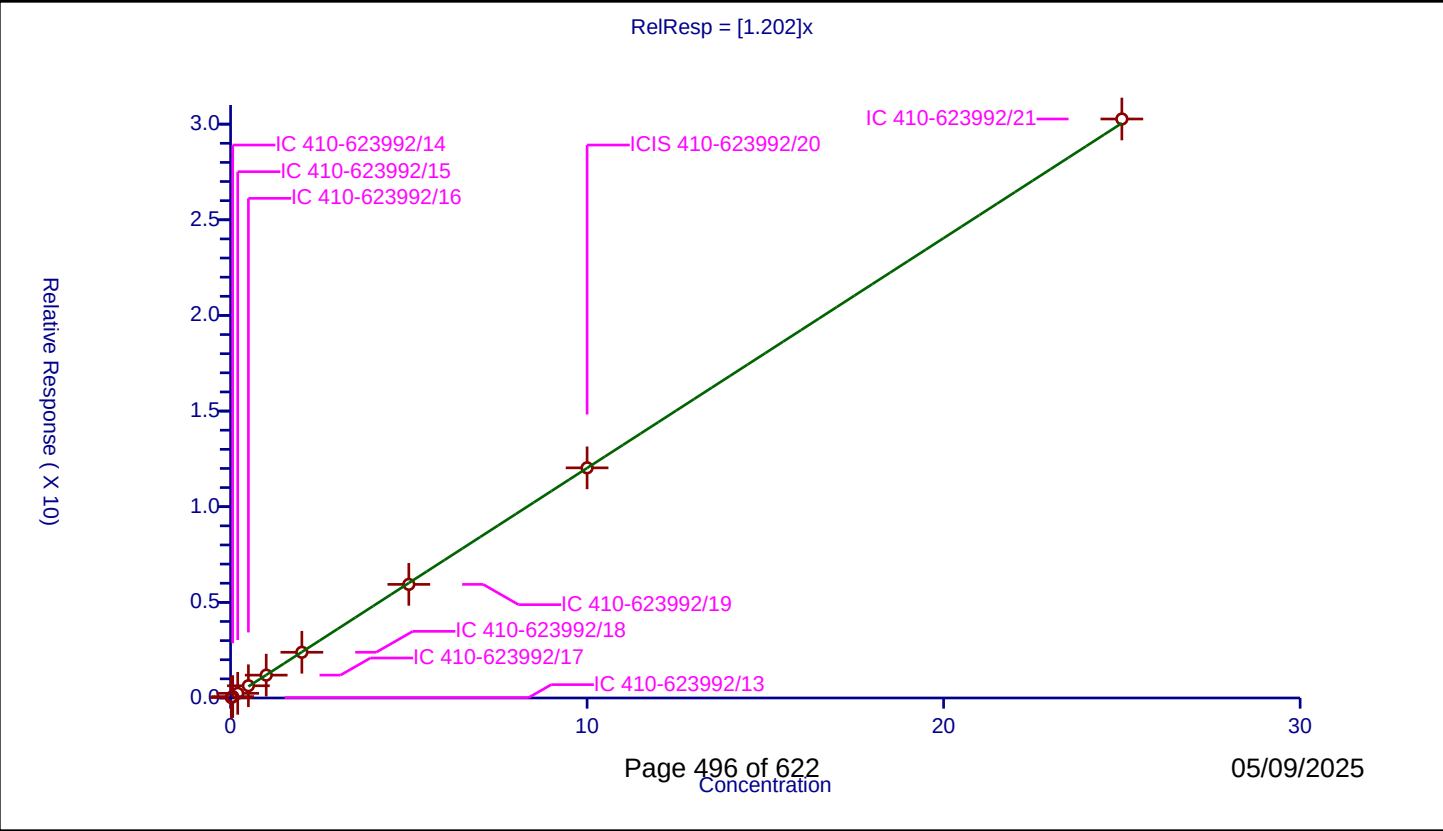


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.202

Error Coefficients	
Relative Standard Deviation:	
	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.022079	10.0	1964341.0	1.103933	Y
2	IC 410-623992/14	0.06	0.07371	10.0	1965958.0	1.228494	Y
3	IC 410-623992/15	0.2	0.24294	10.0	2020747.0	1.214699	Y
4	IC 410-623992/16	0.5	0.639749	10.0	2019903.0	1.279497	Y
5	IC 410-623992/17	1.0	1.195042	10.0	2009620.0	1.195042	Y
6	IC 410-623992/18	2.0	2.389947	10.0	2036656.0	1.194974	Y
7	IC 410-623992/19	5.0	5.93896	10.0	2063762.0	1.187792	Y
8	ICIS 410-623992/20	10.0	12.031318	10.0	2055680.0	1.203132	Y
9	IC 410-623992/21	25.0	30.269681	10.0	2125436.0	1.210787	Y



Calibration

/ 1,2-Dichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

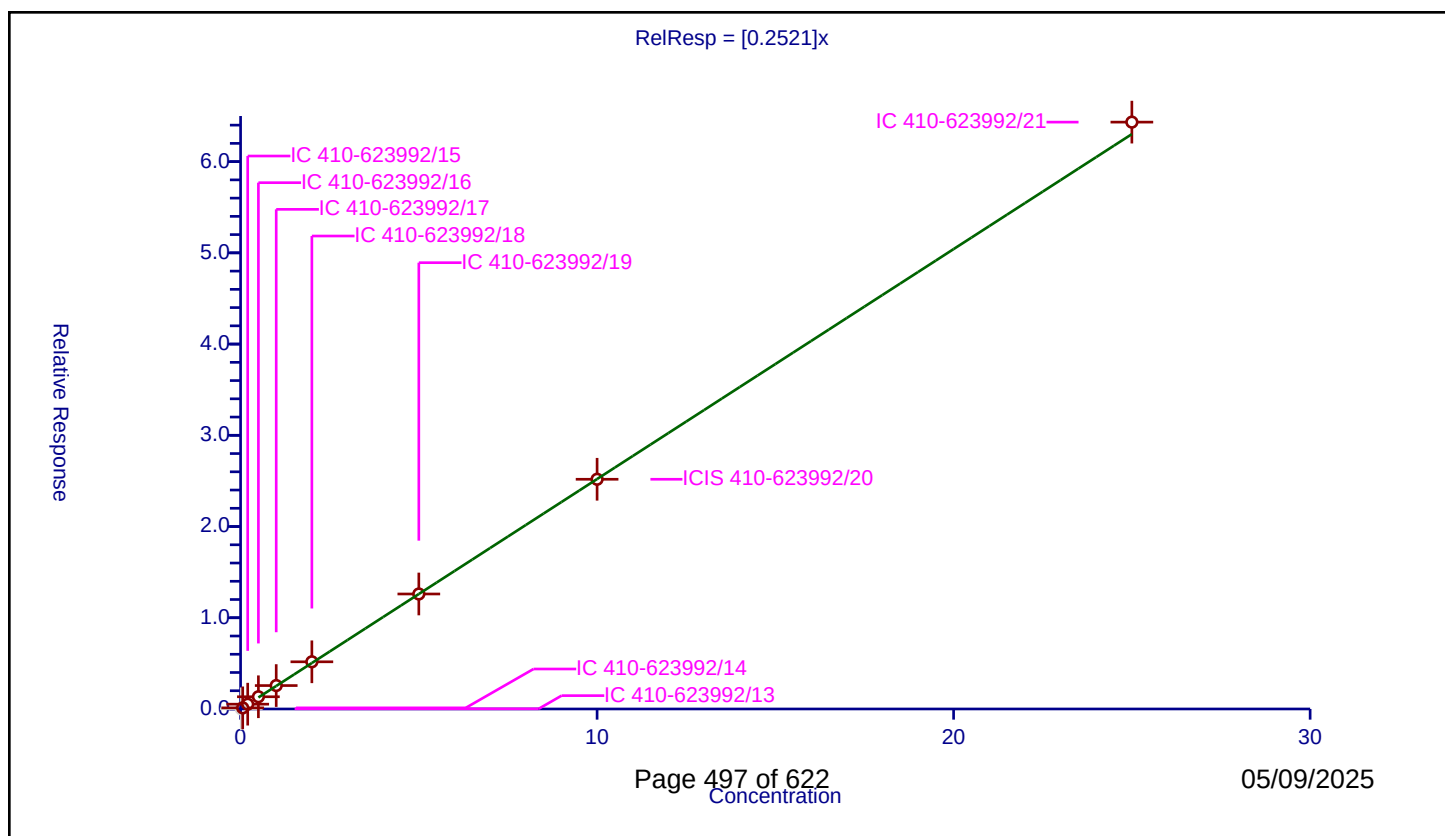
Curve Coefficients

Intercept: 0
Slope: 0.2521

Error Coefficients

Relative Standard Deviation: 7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.002301	10.0	1964341.0	0.115051	N
2	IC 410-623992/14	0.06	0.012427	10.0	1965958.0	0.207109	Y
3	IC 410-623992/15	0.2	0.052857	10.0	2020747.0	0.264283	Y
4	IC 410-623992/16	0.5	0.13413	10.0	2019903.0	0.26826	Y
5	IC 410-623992/17	1.0	0.256939	10.0	2009620.0	0.256939	Y
6	IC 410-623992/18	2.0	0.517245	10.0	2036656.0	0.258622	Y
7	IC 410-623992/19	5.0	1.260698	10.0	2063762.0	0.25214	Y
8	ICIS 410-623992/20	10.0	2.518169	10.0	2055680.0	0.251817	Y
9	IC 410-623992/21	25.0	6.432958	10.0	2125436.0	0.257318	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

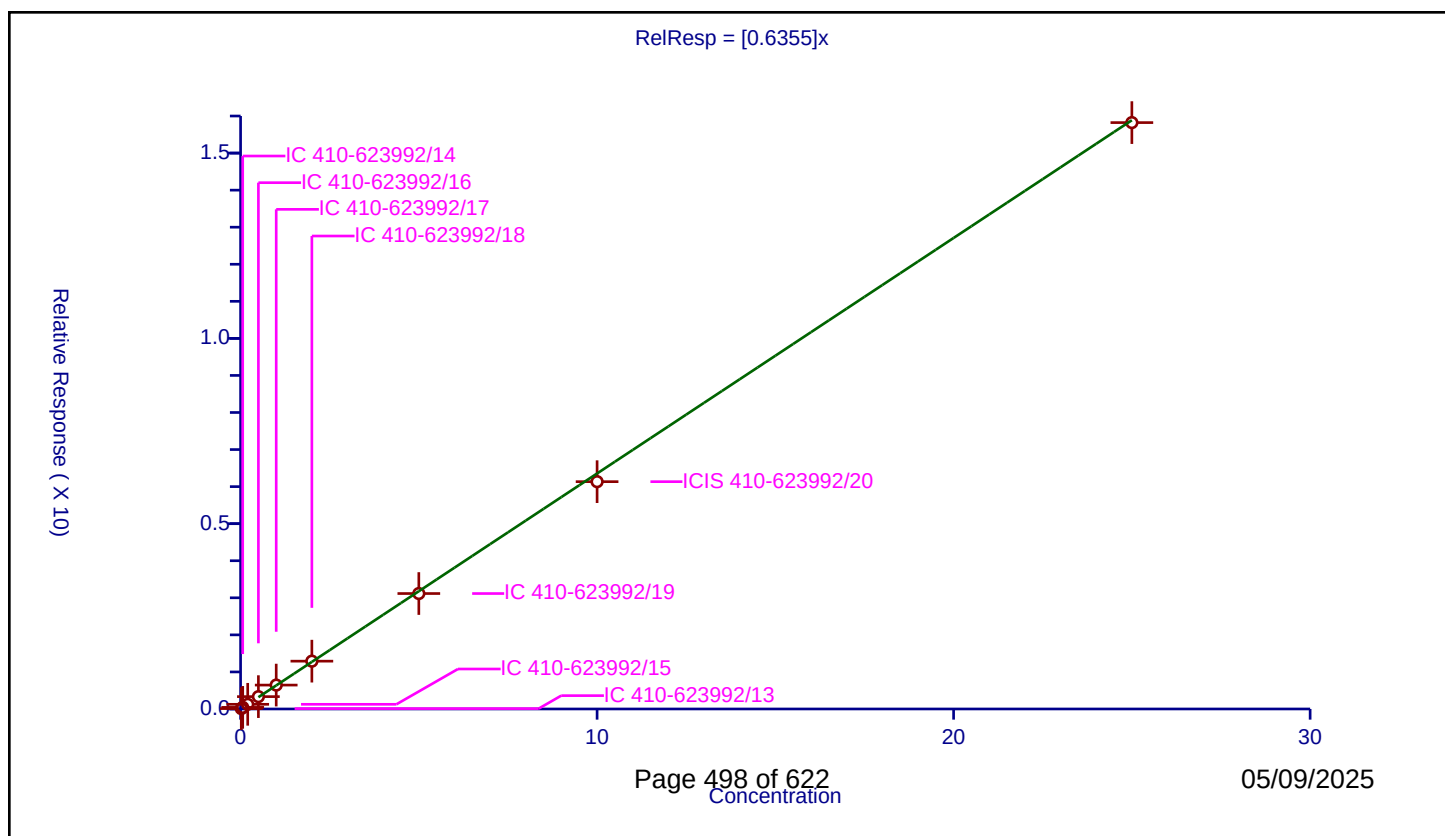
Curve Coefficients

Intercept: 0
Slope: 0.6355

Error Coefficients

Relative Standard Deviation: 7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.010711	10.0	1964341.0	0.535549	Y
2	IC 410-623992/14	0.06	0.043541	10.0	1965958.0	0.725685	Y
3	IC 410-623992/15	0.2	0.126428	10.0	2020747.0	0.632142	Y
4	IC 410-623992/16	0.5	0.333145	10.0	2019903.0	0.666289	Y
5	IC 410-623992/17	1.0	0.645117	10.0	2009620.0	0.645117	Y
6	IC 410-623992/18	2.0	1.290179	10.0	2036656.0	0.645089	Y
7	IC 410-623992/19	5.0	3.114996	10.0	2063762.0	0.622999	Y
8	ICIS 410-623992/20	10.0	6.133917	10.0	2055680.0	0.613392	Y
9	IC 410-623992/21	25.0	15.822598	10.0	2125436.0	0.632904	Y



Calibration

/ n-Heptane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

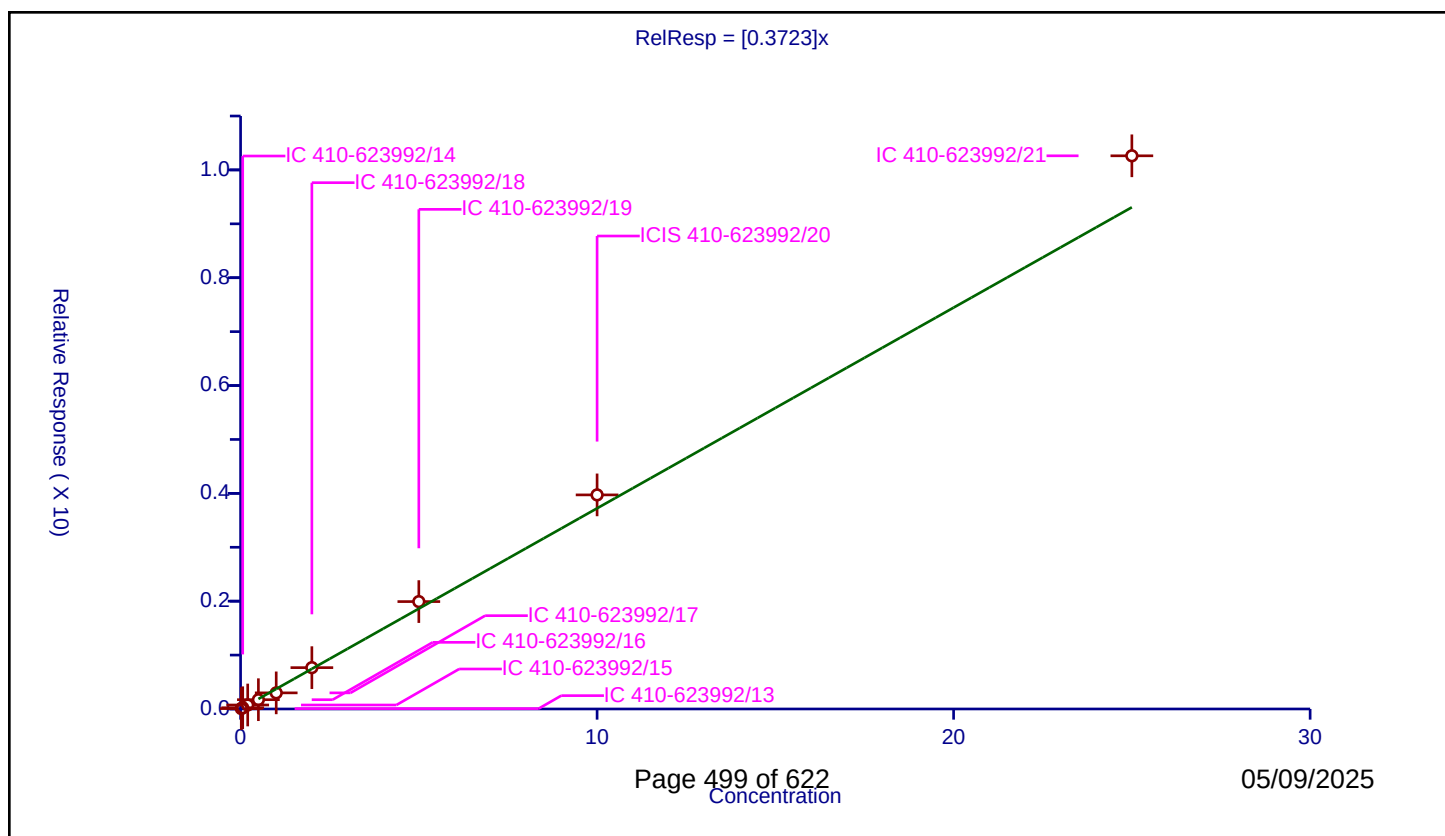
Curve Coefficients

Intercept: 0
Slope: 0.3723

Error Coefficients

Relative Standard Deviation: 9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.007244	10.0	1964341.0	0.362208	Y
2	IC 410-623992/14	0.06	0.023037	10.0	1965958.0	0.383952	Y
3	IC 410-623992/15	0.2	0.074111	10.0	2020747.0	0.370556	Y
4	IC 410-623992/16	0.5	0.172578	10.0	2019903.0	0.345155	Y
5	IC 410-623992/17	1.0	0.298912	10.0	2009620.0	0.298912	Y
6	IC 410-623992/18	2.0	0.767189	10.0	2036656.0	0.383594	Y
7	IC 410-623992/19	5.0	1.992289	10.0	2063762.0	0.398458	Y
8	ICIS 410-623992/20	10.0	3.971518	10.0	2055680.0	0.397152	Y
9	IC 410-623992/21	25.0	10.261782	10.0	2125436.0	0.410471	Y



Calibration

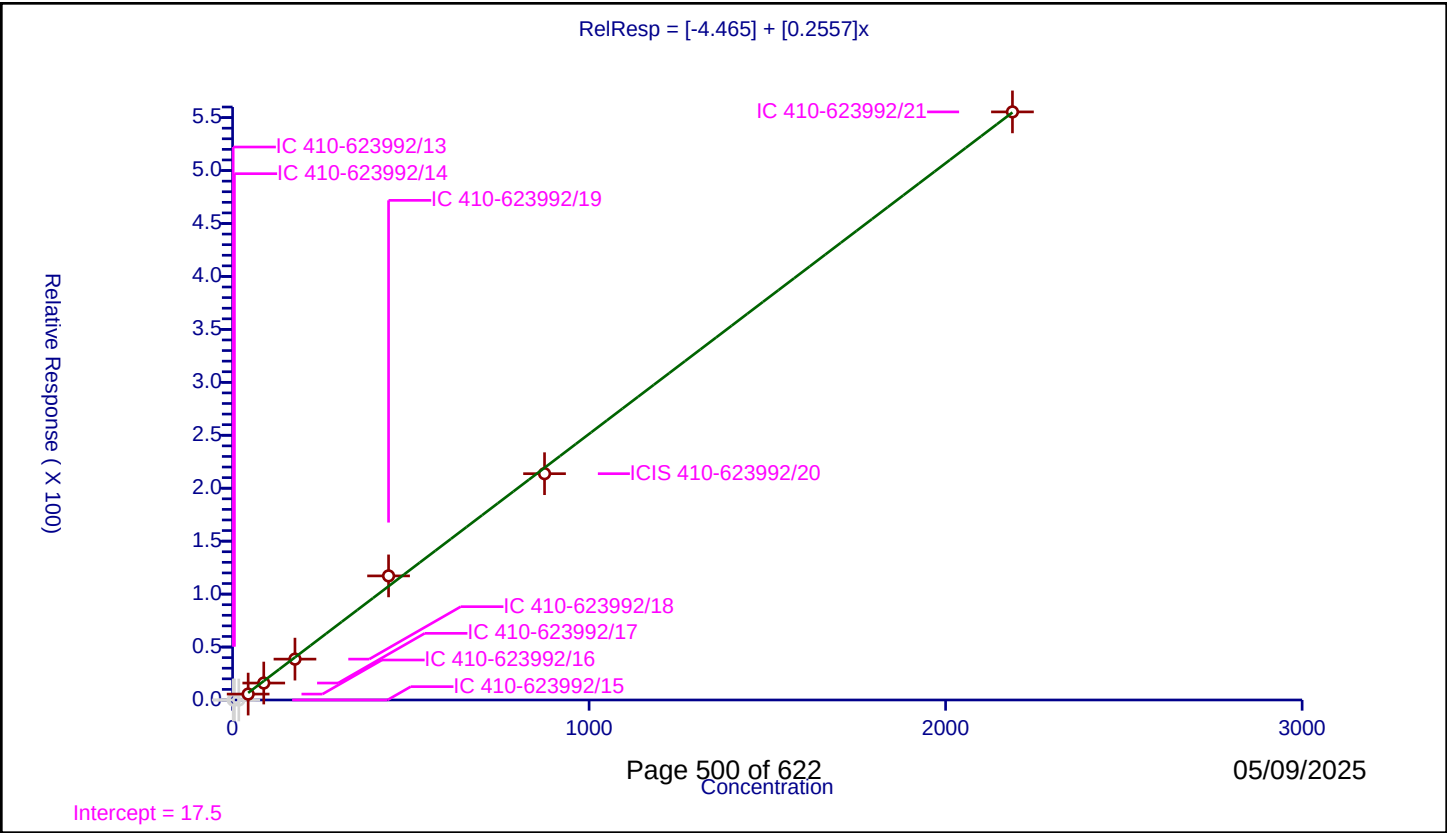
/ n-Butanol

Curve Type: Linear
Weighting: None
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	-4.465
Slope:	0.2557
Error Coefficients	

Relative Standard Deviation: 8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	1.75	0.0	50.0	67983.0	0.0	N
2	IC 410-623992/14	5.25	0.0	50.0	69368.0	0.0	N
3	IC 410-623992/15	17.5	0.0	50.0	55174.0	0.0	N
4	IC 410-623992/16	43.75	5.567875	50.0	62232.0	0.127266	Y
5	IC 410-623992/17	87.5	16.015793	50.0	62685.0	0.183038	Y
6	IC 410-623992/18	175.0	38.597674	50.0	66026.0	0.220558	Y
7	IC 410-623992/19	437.5	117.198564	50.0	62136.0	0.267882	Y
8	ICIS 410-623992/20	875.0	213.725024	50.0	42040.0	0.244257	Y
9	IC 410-623992/21	2187.5	555.392102	50.0	53430.0	0.253894	Y



Calibration

/ Trichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

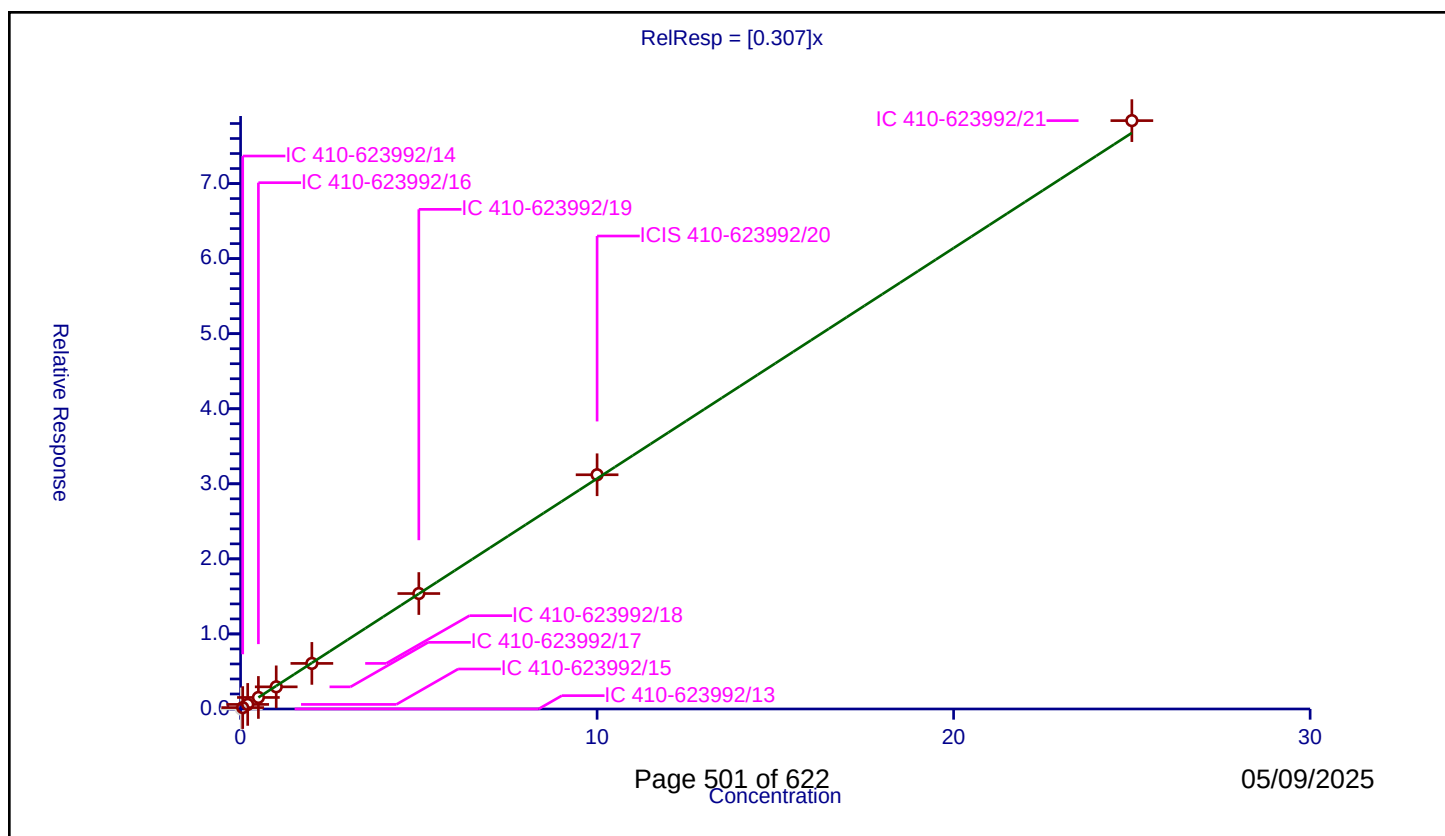
Curve Coefficients

Intercept: 0
Slope: 0.307

Error Coefficients

Relative Standard Deviation: 2.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.000708	10.0	1964341.0	0.035381	N
2	IC 410-623992/14	0.06	0.018769	10.0	1965958.0	0.312825	Y
3	IC 410-623992/15	0.2	0.060834	10.0	2020747.0	0.30417	Y
4	IC 410-623992/16	0.5	0.153666	10.0	2019903.0	0.307332	Y
5	IC 410-623992/17	1.0	0.294882	10.0	2009620.0	0.294882	Y
6	IC 410-623992/18	2.0	0.607329	10.0	2036656.0	0.303664	Y
7	IC 410-623992/19	5.0	1.538123	10.0	2063762.0	0.307625	Y
8	ICIS 410-623992/20	10.0	3.12052	10.0	2055680.0	0.312052	Y
9	IC 410-623992/21	25.0	7.838373	10.0	2125436.0	0.313535	Y



Calibration

/ Methylcyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

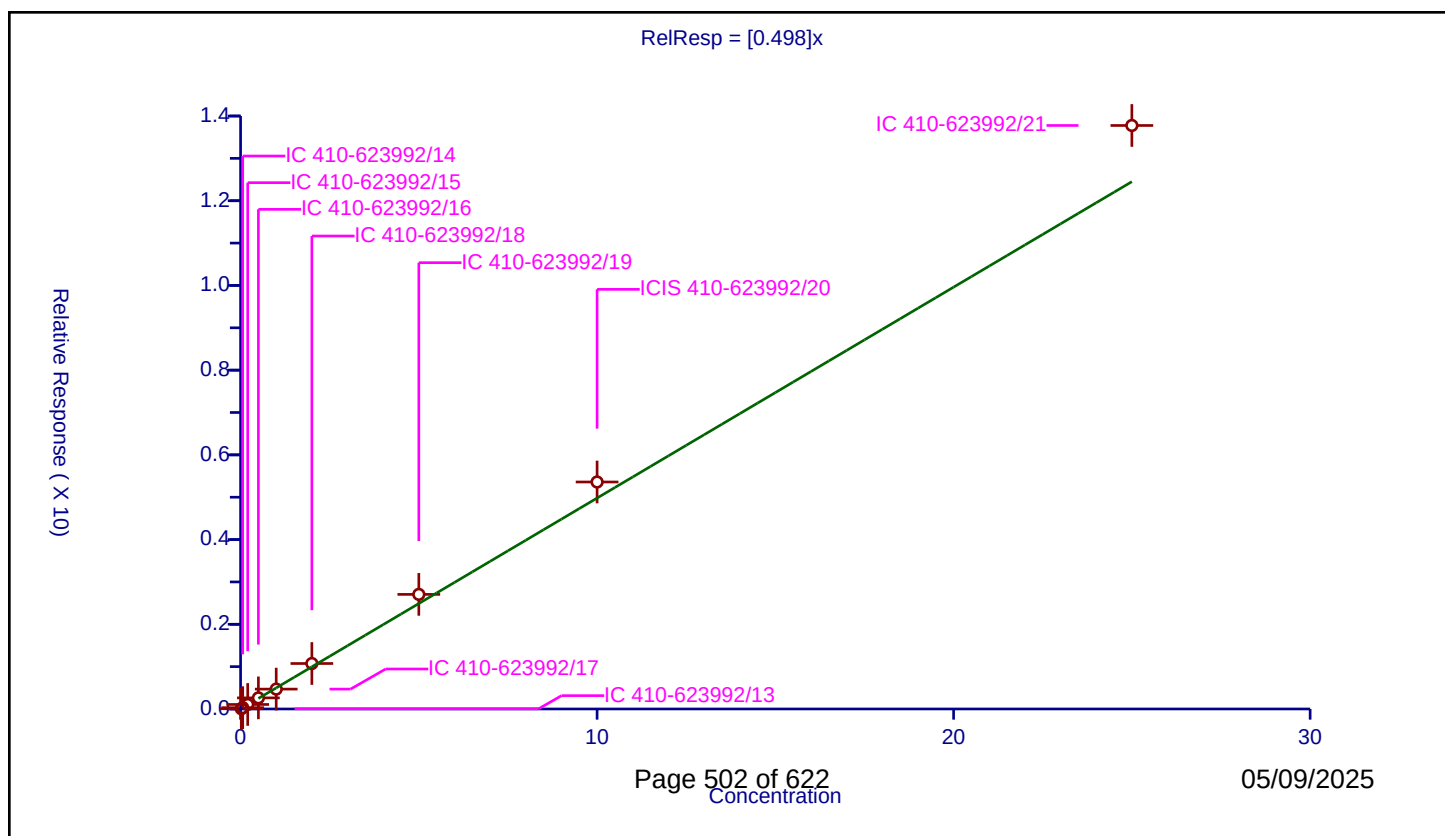
Curve Coefficients

Intercept: 0
Slope: 0.498

Error Coefficients

Relative Standard Deviation: 17.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.005391	10.0	1964341.0	0.269556	Y
2	IC 410-623992/14	0.06	0.031323	10.0	1965958.0	0.522053	Y
3	IC 410-623992/15	0.2	0.106401	10.0	2020747.0	0.532006	Y
4	IC 410-623992/16	0.5	0.261948	10.0	2019903.0	0.523896	Y
5	IC 410-623992/17	1.0	0.469278	10.0	2009620.0	0.469278	Y
6	IC 410-623992/18	2.0	1.073981	10.0	2036656.0	0.536991	Y
7	IC 410-623992/19	5.0	2.705583	10.0	2063762.0	0.541117	Y
8	ICIS 410-623992/20	10.0	5.359691	10.0	2055680.0	0.535969	Y
9	IC 410-623992/21	25.0	13.77667	10.0	2125436.0	0.551067	Y



Calibration

/ 1,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

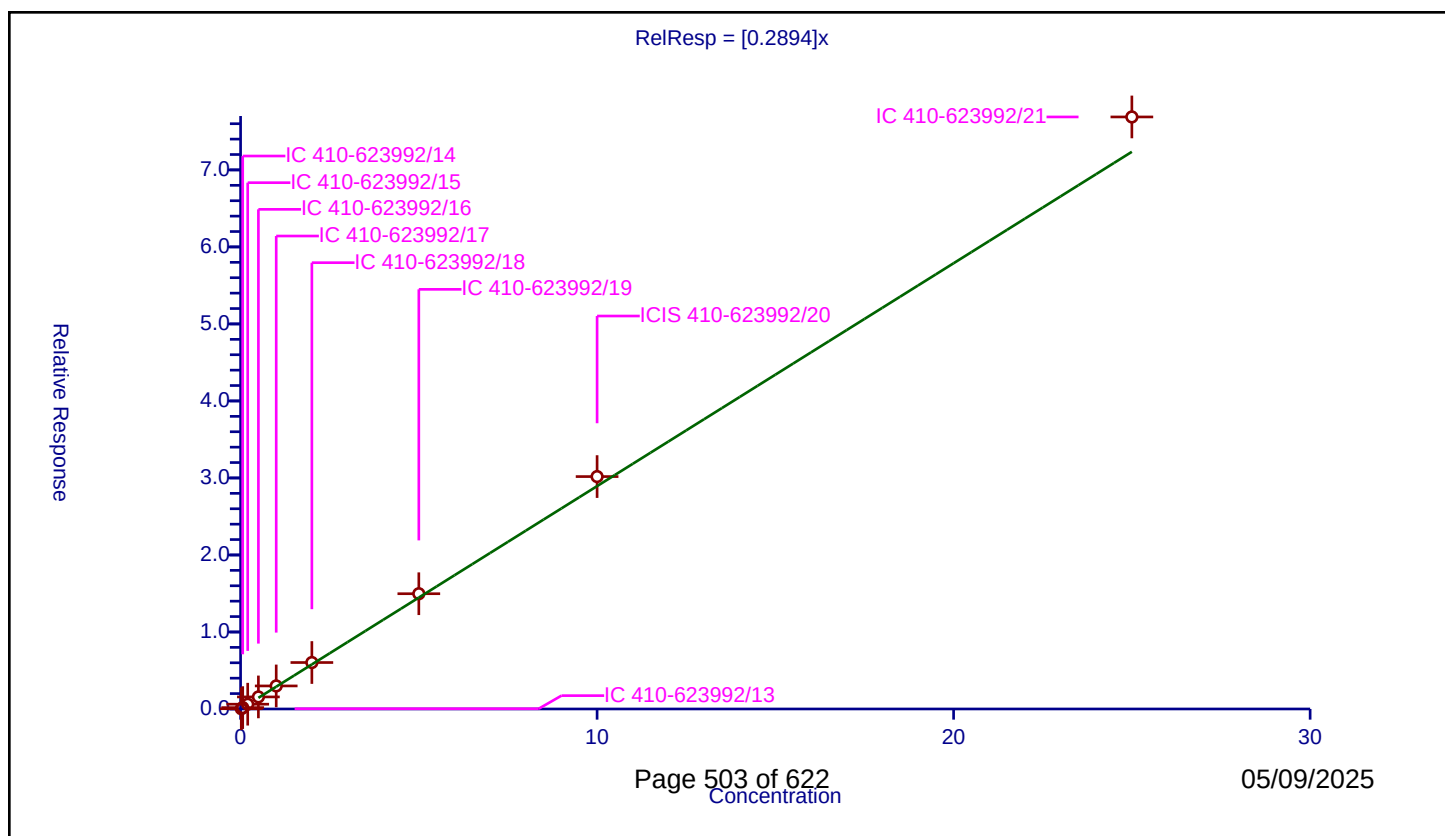
Curve Coefficients

Intercept: 0
Slope: 0.2894

Error Coefficients

Relative Standard Deviation: 15.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.003457	10.0	1964341.0	0.172831	Y
2	IC 410-623992/14	0.06	0.017935	10.0	1965958.0	0.298921	Y
3	IC 410-623992/15	0.2	0.062051	10.0	2020747.0	0.310257	Y
4	IC 410-623992/16	0.5	0.156542	10.0	2019903.0	0.313084	Y
5	IC 410-623992/17	1.0	0.299295	10.0	2009620.0	0.299295	Y
6	IC 410-623992/18	2.0	0.603263	10.0	2036656.0	0.301632	Y
7	IC 410-623992/19	5.0	1.496897	10.0	2063762.0	0.299379	Y
8	ICIS 410-623992/20	10.0	3.017834	10.0	2055680.0	0.301783	Y
9	IC 410-623992/21	25.0	7.68774	10.0	2125436.0	0.30751	Y



Calibration

/ 1,4-Dioxane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

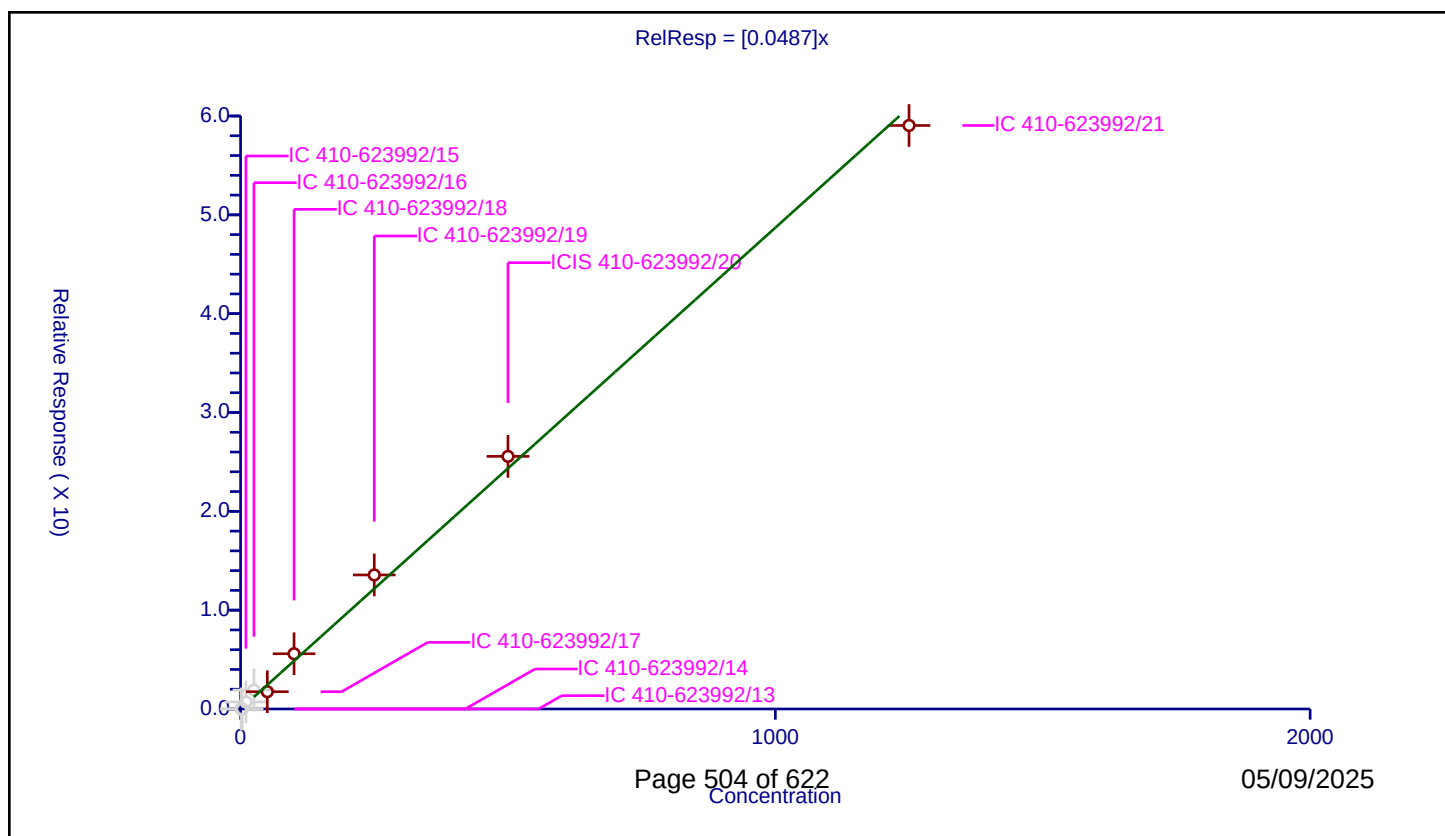
Curve Coefficients

Intercept: 0
Slope: 0.0487

Error Coefficients

Relative Standard Deviation: 17.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	1.0	0.0	50.0	67983.0	0.0	N
2	IC 410-623992/14	3.0	0.0	50.0	69368.0	0.0	N
3	IC 410-623992/15	10.0	0.707761	50.0	55174.0	0.070776	N
4	IC 410-623992/16	25.0	1.917824	50.0	62232.0	0.076713	N
5	IC 410-623992/17	50.0	1.75002	50.0	62685.0	0.035	Y
6	IC 410-623992/18	100.0	5.589465	50.0	66026.0	0.055895	Y
7	IC 410-623992/19	250.0	13.562991	50.0	62136.0	0.054252	Y
8	ICIS 410-623992/20	500.0	25.56137	50.0	42040.0	0.051123	Y
9	IC 410-623992/21	1250.0	59.041737	50.0	53430.0	0.047233	Y



Calibration

/ Methyl methacrylate

Curve Type: Linear
Weighting: None
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

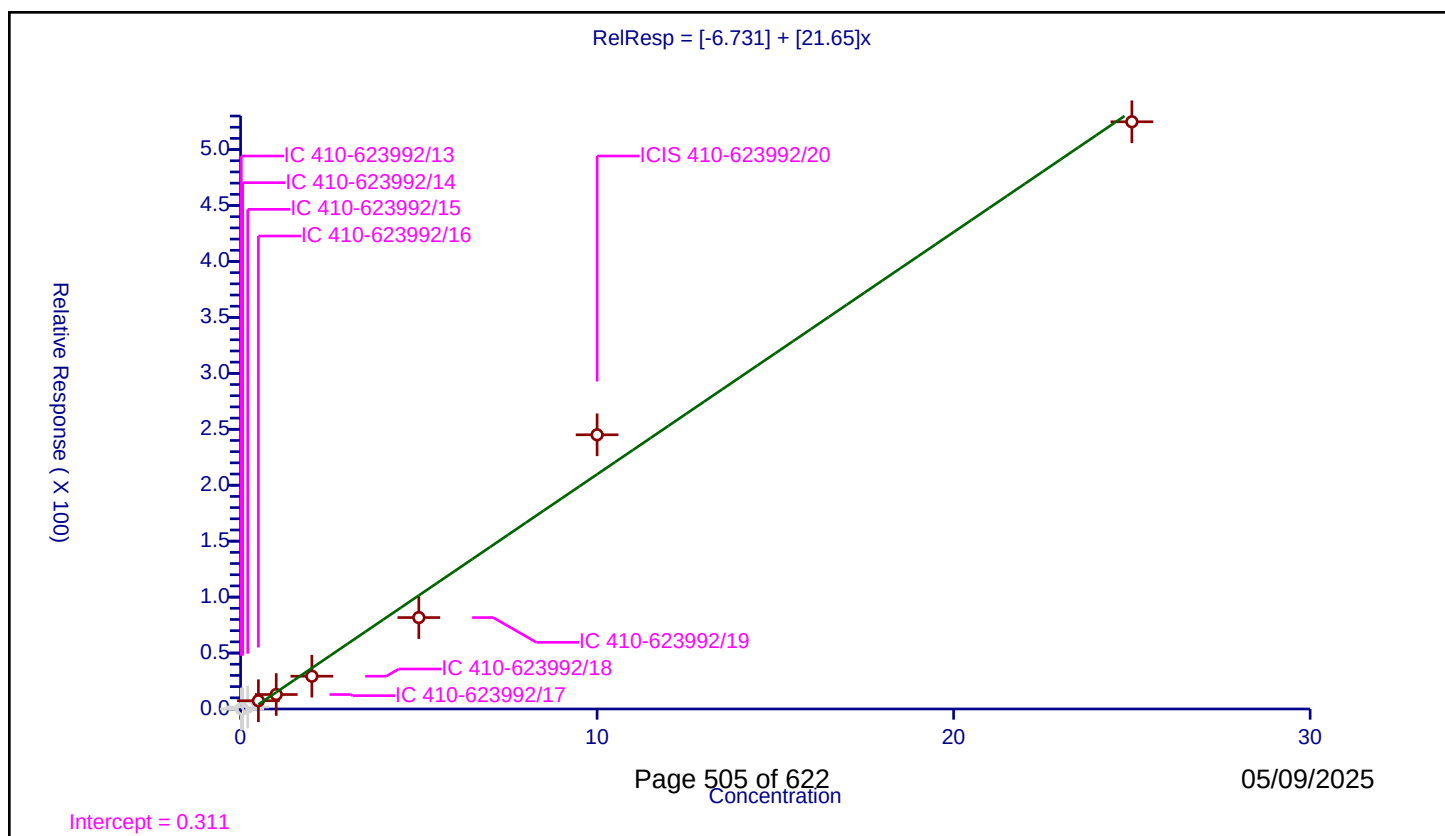
Curve Coefficients

Intercept: -6.731
Slope: 21.65

Error Coefficients

Relative Standard Deviation: 21.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.0	50.0	67983.0	0.0	N
2	IC 410-623992/14	0.06	0.0	50.0	69368.0	0.0	N
3	IC 410-623992/15	0.2	1.804292	50.0	55174.0	9.021459	N
4	IC 410-623992/16	0.5	7.358754	50.0	62232.0	14.717509	Y
5	IC 410-623992/17	1.0	12.935311	50.0	62685.0	12.935311	Y
6	IC 410-623992/18	2.0	29.301336	50.0	66026.0	14.650668	Y
7	IC 410-623992/19	5.0	81.721546	50.0	62136.0	16.344309	Y
8	ICIS 410-623992/20	10.0	245.077307	50.0	42040.0	24.507731	Y
9	IC 410-623992/21	25.0	524.846528	50.0	53430.0	20.993861	Y



Calibration

/ Dibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

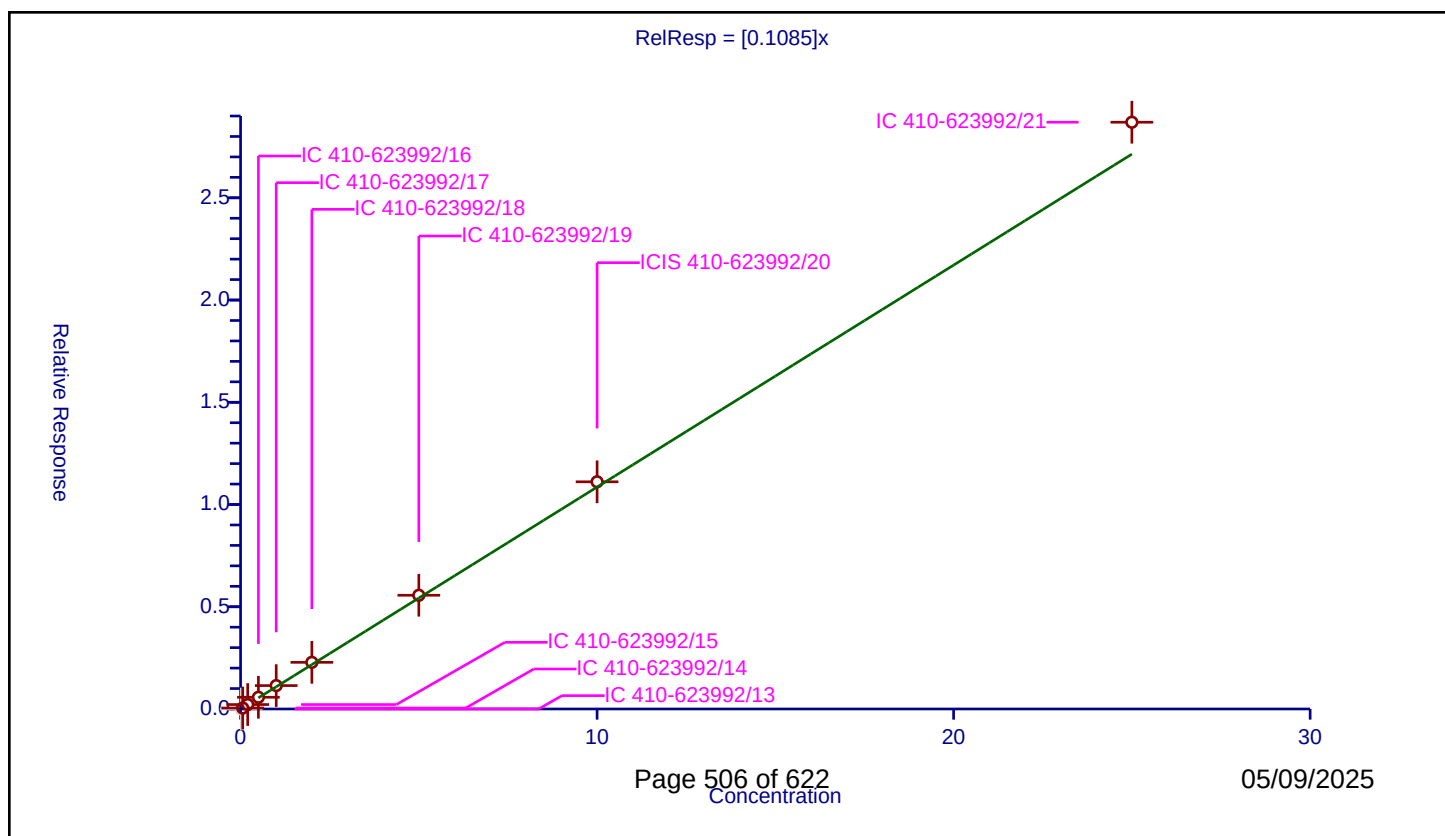
Curve Coefficients

Intercept: 0
Slope: 0.1085

Error Coefficients

Relative Standard Deviation: 10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.0	10.0	1964341.0	0.0	N
2	IC 410-623992/14	0.06	0.004792	10.0	1965958.0	0.079859	Y
3	IC 410-623992/15	0.2	0.02168	10.0	2020747.0	0.108401	Y
4	IC 410-623992/16	0.5	0.057255	10.0	2019903.0	0.11451	Y
5	IC 410-623992/17	1.0	0.11438	10.0	2009620.0	0.11438	Y
6	IC 410-623992/18	2.0	0.228104	10.0	2036656.0	0.114052	Y
7	IC 410-623992/19	5.0	0.556154	10.0	2063762.0	0.111231	Y
8	ICIS 410-623992/20	10.0	1.111102	10.0	2055680.0	0.11111	Y
9	IC 410-623992/21	25.0	2.869609	10.0	2125436.0	0.114784	Y



Calibration

/ Dichlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

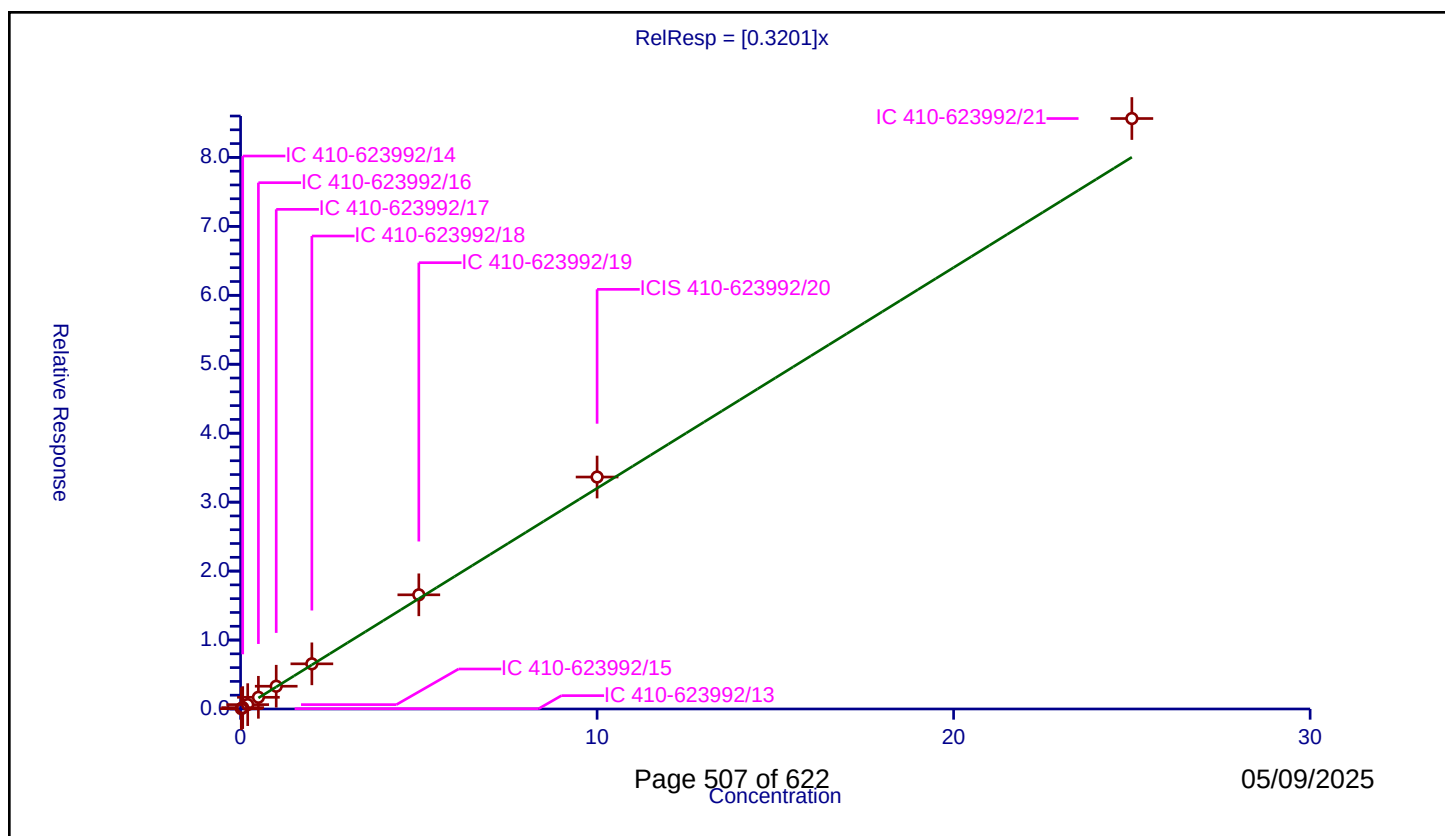
Curve Coefficients

Intercept: 0
Slope: 0.3201

Error Coefficients

Relative Standard Deviation: 10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.004587	10.0	1964341.0	0.229339	Y
2	IC 410-623992/14	0.06	0.019736	10.0	1965958.0	0.328932	Y
3	IC 410-623992/15	0.2	0.063061	10.0	2020747.0	0.315304	Y
4	IC 410-623992/16	0.5	0.169766	10.0	2019903.0	0.339531	Y
5	IC 410-623992/17	1.0	0.330212	10.0	2009620.0	0.330212	Y
6	IC 410-623992/18	2.0	0.655152	10.0	2036656.0	0.327576	Y
7	IC 410-623992/19	5.0	1.655884	10.0	2063762.0	0.331177	Y
8	ICIS 410-623992/20	10.0	3.364064	10.0	2055680.0	0.336406	Y
9	IC 410-623992/21	25.0	8.563659	10.0	2125436.0	0.342546	Y



Calibration

/ 2-Nitropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

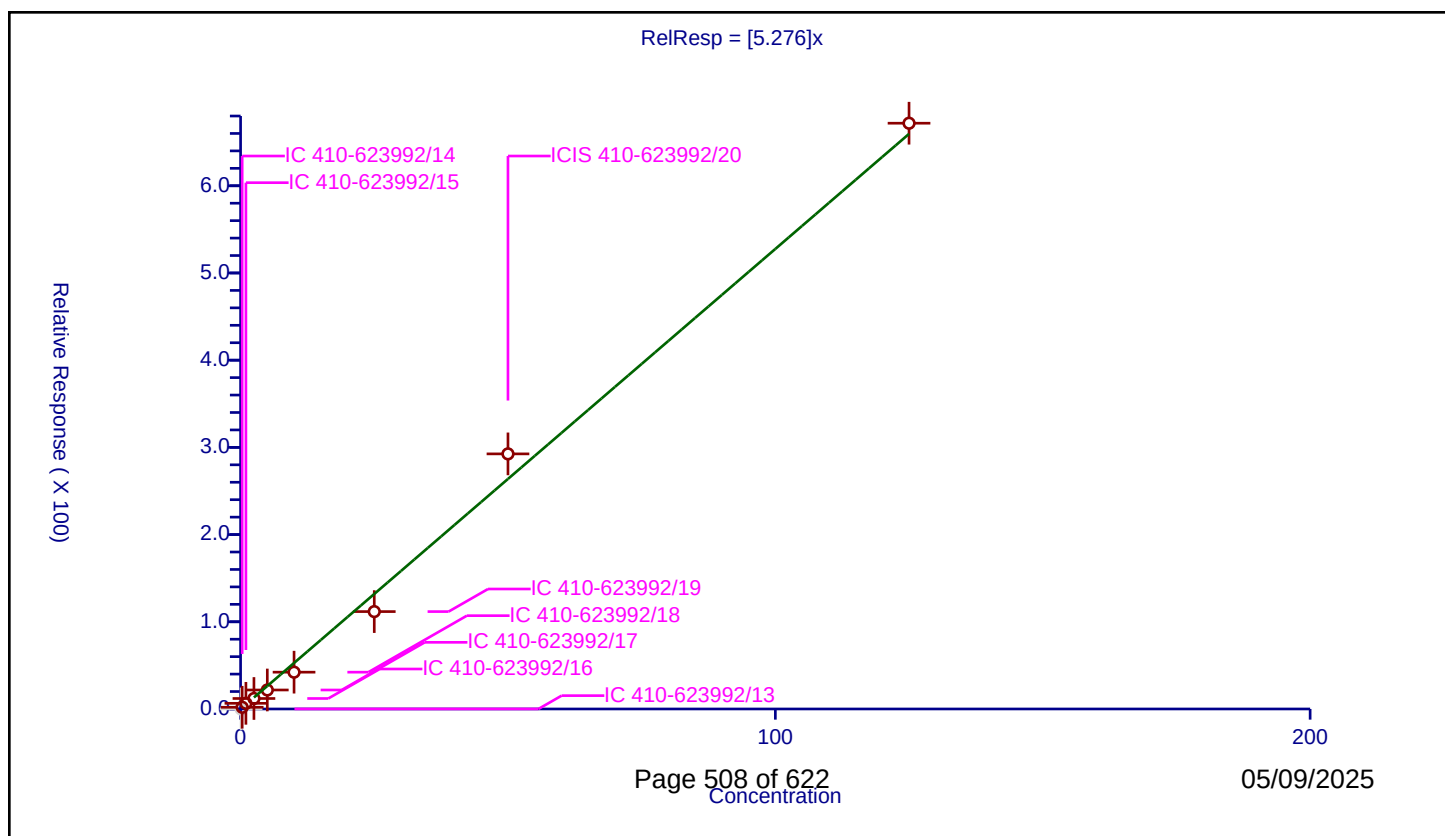
Curve Coefficients

Intercept: 0
Slope: 5.276

Error Coefficients

Relative Standard Deviation: 18.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.1	0.074283	50.0	67983.0	0.742833	N
2	IC 410-623992/14	0.3	1.984344	50.0	69368.0	6.614481	Y
3	IC 410-623992/15	1.0	6.510313	50.0	55174.0	6.510313	Y
4	IC 410-623992/16	2.5	12.030788	50.0	62232.0	4.812315	Y
5	IC 410-623992/17	5.0	21.785914	50.0	62685.0	4.357183	Y
6	IC 410-623992/18	10.0	42.210644	50.0	66026.0	4.221064	Y
7	IC 410-623992/19	25.0	111.692899	50.0	62136.0	4.467716	Y
8	ICIS 410-623992/20	50.0	292.560657	50.0	42040.0	5.851213	Y
9	IC 410-623992/21	125.0	671.72843	50.0	53430.0	5.373827	Y



Calibration

/ 1-Bromo-2-chloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

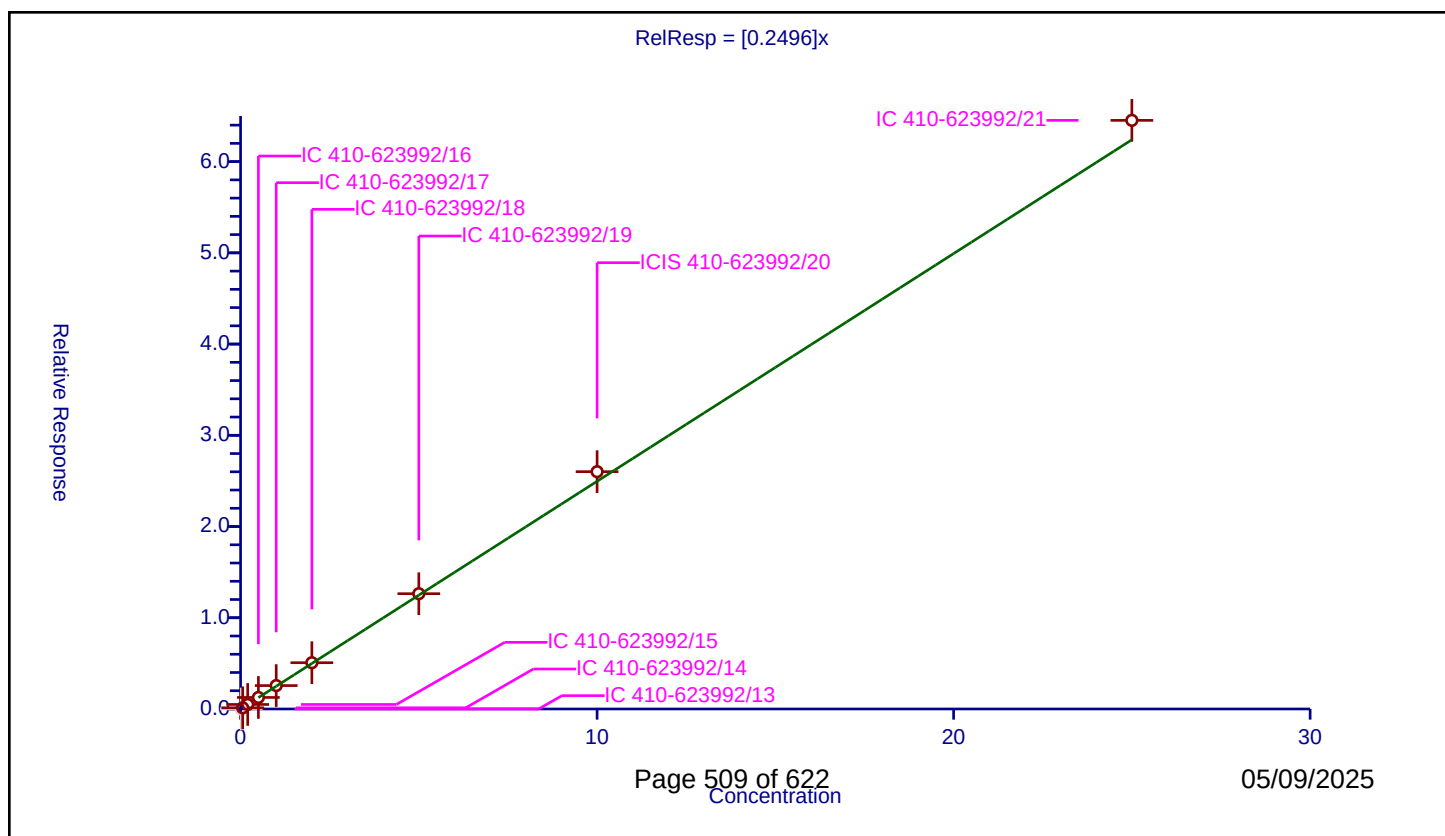
Curve Coefficients

Intercept: 0
Slope: 0.2496

Error Coefficients

Relative Standard Deviation: 5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.0	10.0	1964341.0	0.0	N
2	IC 410-623992/14	0.06	0.012879	10.0	1965958.0	0.214654	Y
3	IC 410-623992/15	0.2	0.049655	10.0	2020747.0	0.248275	Y
4	IC 410-623992/16	0.5	0.126333	10.0	2019903.0	0.252666	Y
5	IC 410-623992/17	1.0	0.256541	10.0	2009620.0	0.256541	Y
6	IC 410-623992/18	2.0	0.507233	10.0	2036656.0	0.253617	Y
7	IC 410-623992/19	5.0	1.263891	10.0	2063762.0	0.252778	Y
8	ICIS 410-623992/20	10.0	2.601421	10.0	2055680.0	0.260142	Y
9	IC 410-623992/21	25.0	6.452488	10.0	2125436.0	0.2581	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

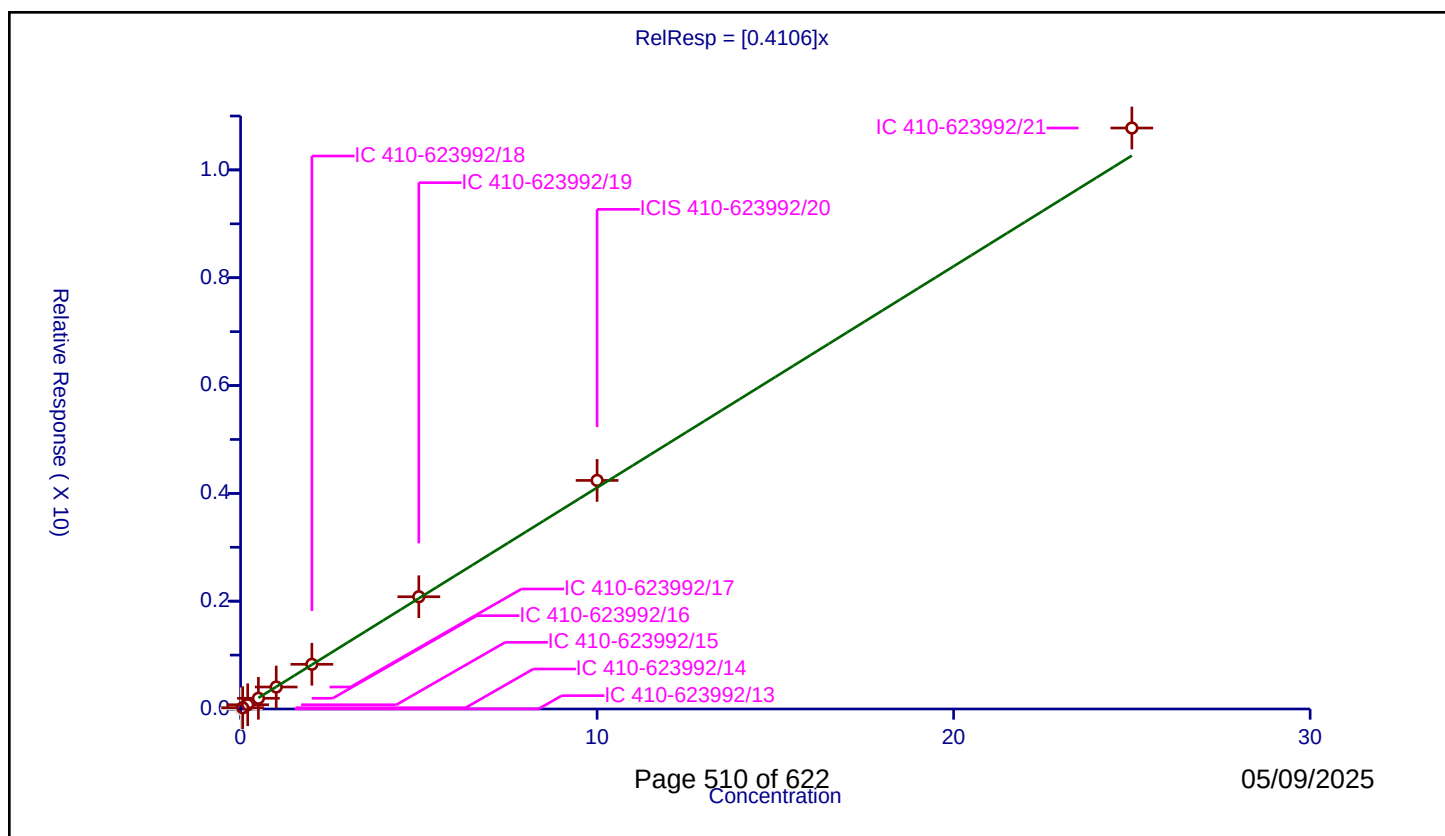
Curve Coefficients

Intercept: 0
Slope: 0.4106

Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.002479	10.0	1964341.0	0.12396	N
2	IC 410-623992/14	0.06	0.023948	10.0	1965958.0	0.399127	Y
3	IC 410-623992/15	0.2	0.078857	10.0	2020747.0	0.394285	Y
4	IC 410-623992/16	0.5	0.198856	10.0	2019903.0	0.397712	Y
5	IC 410-623992/17	1.0	0.407639	10.0	2009620.0	0.407639	Y
6	IC 410-623992/18	2.0	0.829109	10.0	2036656.0	0.414555	Y
7	IC 410-623992/19	5.0	2.082164	10.0	2063762.0	0.416433	Y
8	ICIS 410-623992/20	10.0	4.240023	10.0	2055680.0	0.424002	Y
9	IC 410-623992/21	25.0	10.777243	10.0	2125436.0	0.43109	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

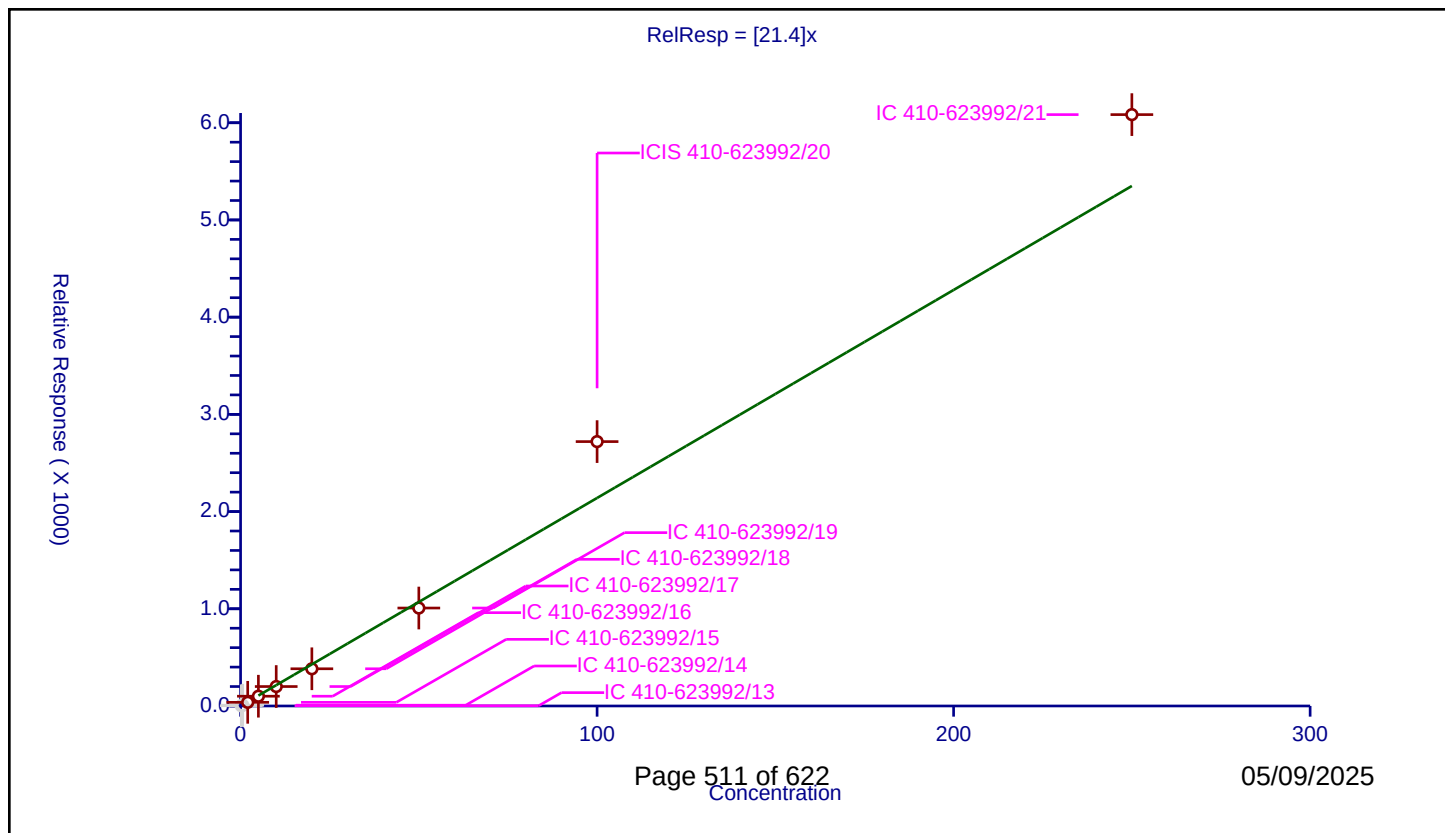
Curve Coefficients

Intercept: 0
Slope: 21.4

Error Coefficients

Relative Standard Deviation: 14.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.2	2.700675	50.0	67983.0	13.503376	N
2	IC 410-623992/14	0.6	8.19398	50.0	69368.0	13.656633	N
3	IC 410-623992/15	2.0	37.709791	50.0	55174.0	18.854895	Y
4	IC 410-623992/16	5.0	100.519829	50.0	62232.0	20.103966	Y
5	IC 410-623992/17	10.0	200.042275	50.0	62685.0	20.004227	Y
6	IC 410-623992/18	20.0	382.692424	50.0	66026.0	19.134621	Y
7	IC 410-623992/19	50.0	1007.80224	50.0	62136.0	20.156045	Y
8	ICIS 410-623992/20	100.0	2719.851332	50.0	42040.0	27.198513	Y
9	IC 410-623992/21	250.0	6083.422235	50.0	53430.0	24.333689	Y



Calibration

/ Toluene-d8 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

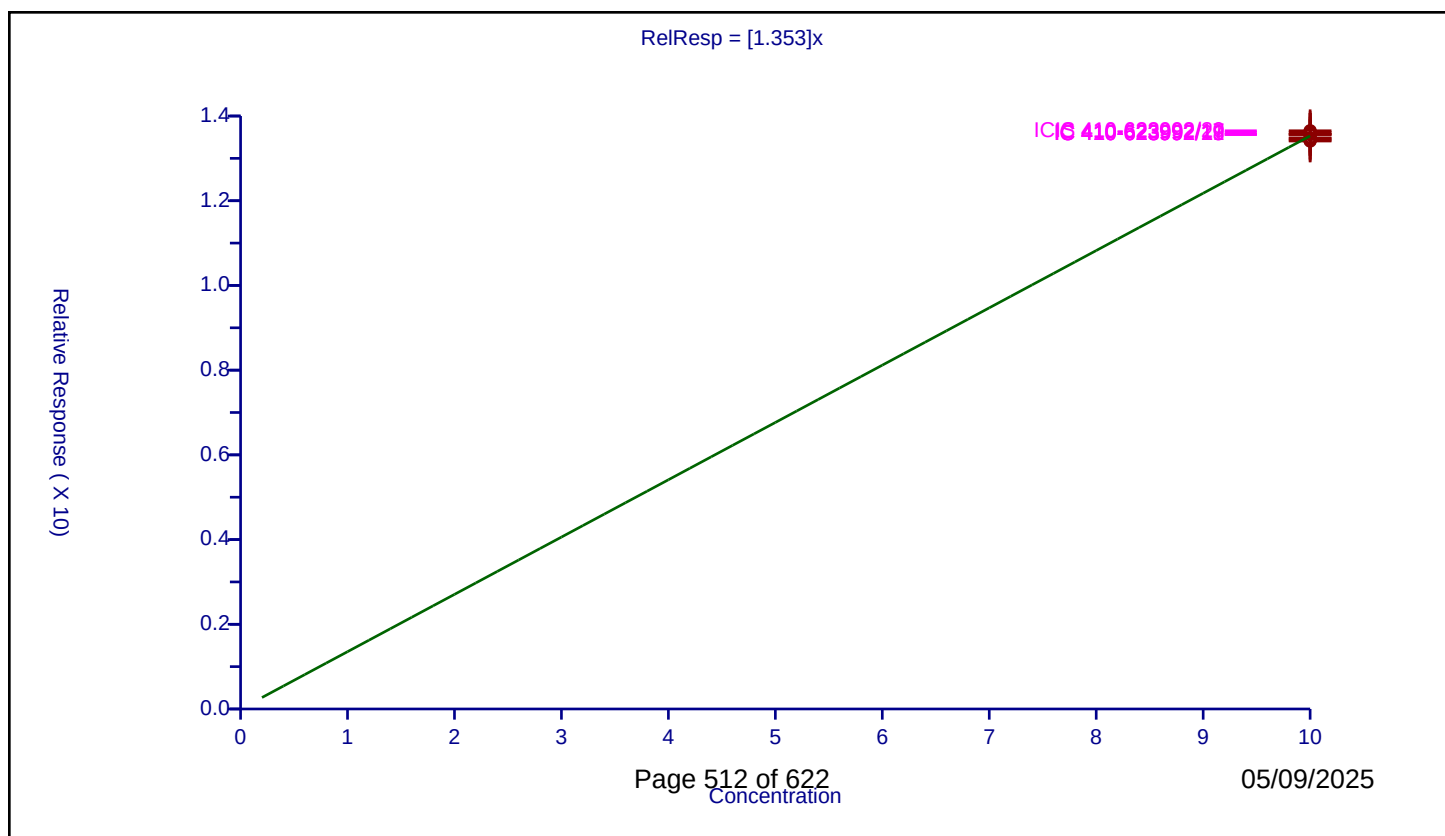
Curve Coefficients

Intercept: 0
 Slope: 1.353

Error Coefficients

Relative Standard Deviation: 0.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/21	10.0	13.56203	10.0	1510883.0	1.356203	Y
2	ICIS 410-623992/20	10.0	13.651991	10.0	1458607.0	1.365199	Y
3	IC 410-623992/19	10.0	13.570293	10.0	1467773.0	1.357029	Y
4	IC 410-623992/18	10.0	13.572414	10.0	1437185.0	1.357241	Y
5	IC 410-623992/17	10.0	13.618988	10.0	1431171.0	1.361899	Y
6	IC 410-623992/16	10.0	13.467874	10.0	1446725.0	1.346787	Y
7	IC 410-623992/15	10.0	13.409448	10.0	1439661.0	1.340945	Y
8	IC 410-623992/14	10.0	13.485049	10.0	1401748.0	1.348505	Y
9	IC 410-623992/13	10.0	13.428241	10.0	1405222.0	1.342824	Y



Calibration

/ Toluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

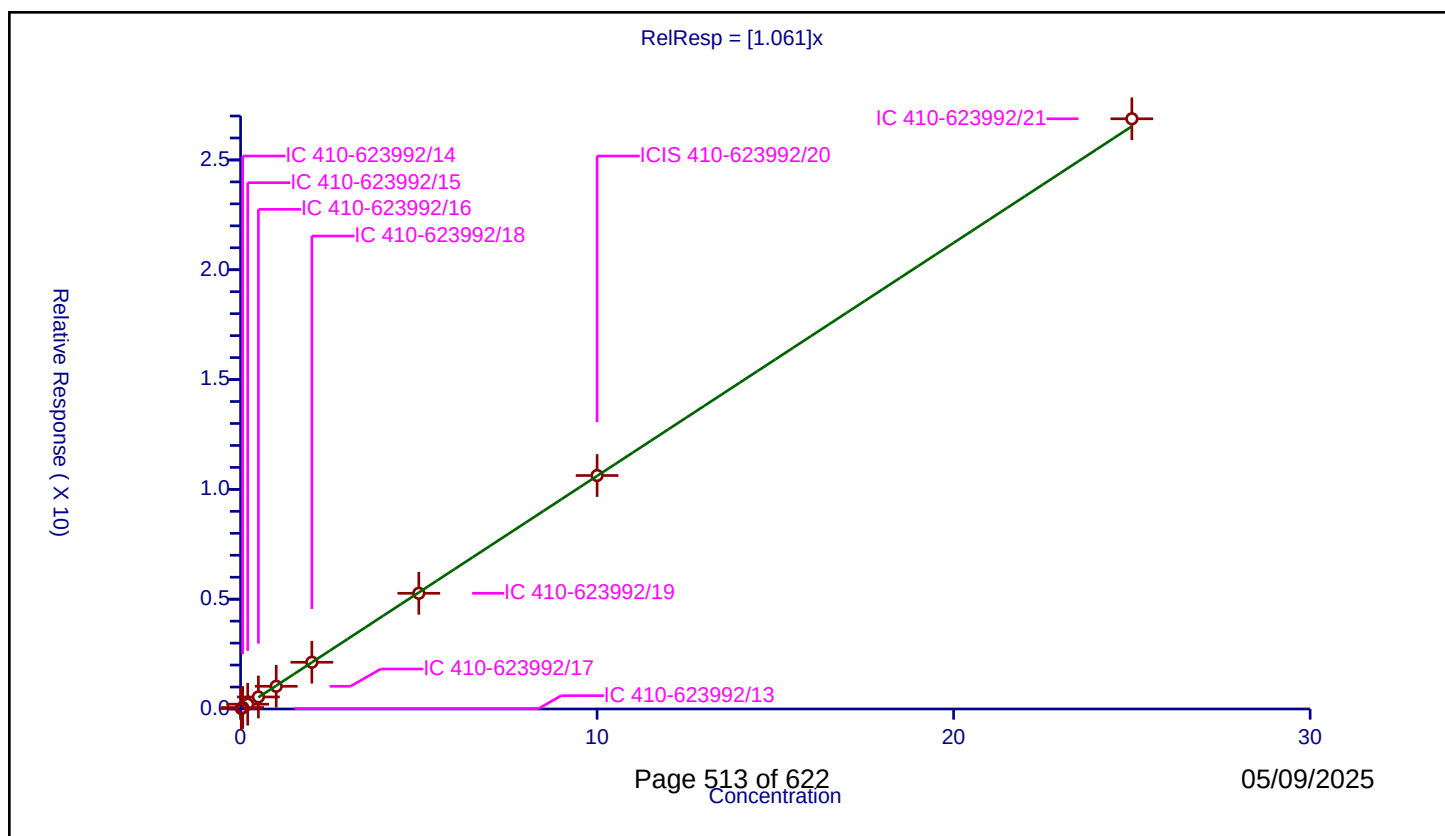
Curve Coefficients

Intercept: 0
Slope: 1.061

Error Coefficients

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.018979	10.0	1405222.0	0.94896	Y
2	IC 410-623992/14	0.06	0.067765	10.0	1401748.0	1.129423	Y
3	IC 410-623992/15	0.2	0.217516	10.0	1439661.0	1.087582	Y
4	IC 410-623992/16	0.5	0.547464	10.0	1446725.0	1.094928	Y
5	IC 410-623992/17	1.0	1.033902	10.0	1431171.0	1.033902	Y
6	IC 410-623992/18	2.0	2.12848	10.0	1437185.0	1.06424	Y
7	IC 410-623992/19	5.0	5.268199	10.0	1467773.0	1.05364	Y
8	ICIS 410-623992/20	10.0	10.63089	10.0	1458607.0	1.063089	Y
9	IC 410-623992/21	25.0	26.873418	10.0	1510883.0	1.074937	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

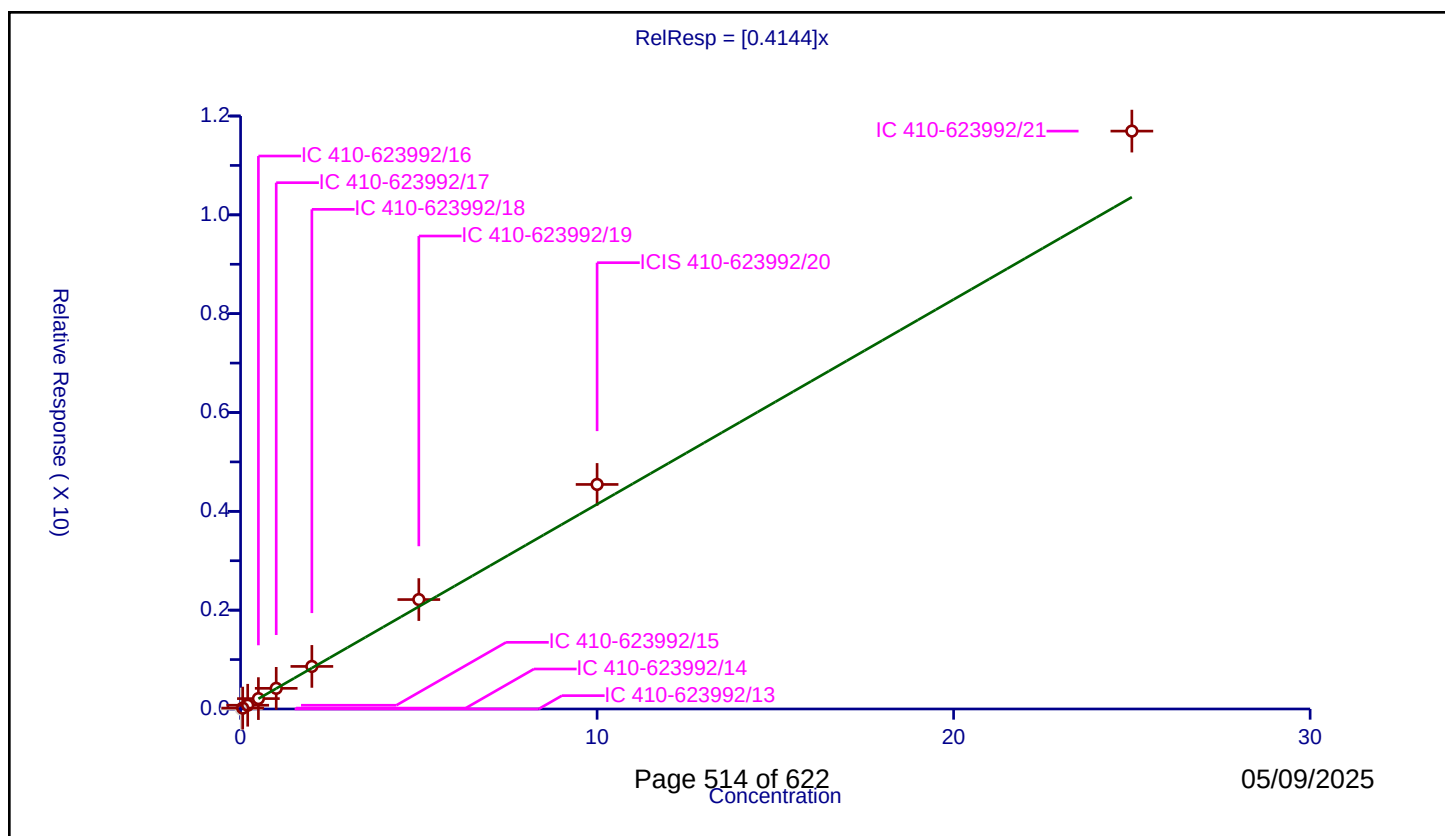
Curve Coefficients

Intercept: 0
Slope: 0.4144

Error Coefficients

Relative Standard Deviation: 12.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.0	10.0	1405222.0	0.0	N
2	IC 410-623992/14	0.06	0.018135	10.0	1401748.0	0.302242	Y
3	IC 410-623992/15	0.2	0.075684	10.0	1439661.0	0.378422	Y
4	IC 410-623992/16	0.5	0.210206	10.0	1446725.0	0.420412	Y
5	IC 410-623992/17	1.0	0.418084	10.0	1431171.0	0.418084	Y
6	IC 410-623992/18	2.0	0.861295	10.0	1437185.0	0.430647	Y
7	IC 410-623992/19	5.0	2.214341	10.0	1467773.0	0.442868	Y
8	ICIS 410-623992/20	10.0	4.54435	10.0	1458607.0	0.454435	Y
9	IC 410-623992/21	25.0	11.694552	10.0	1510883.0	0.467782	Y



Calibration

/ Ethyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

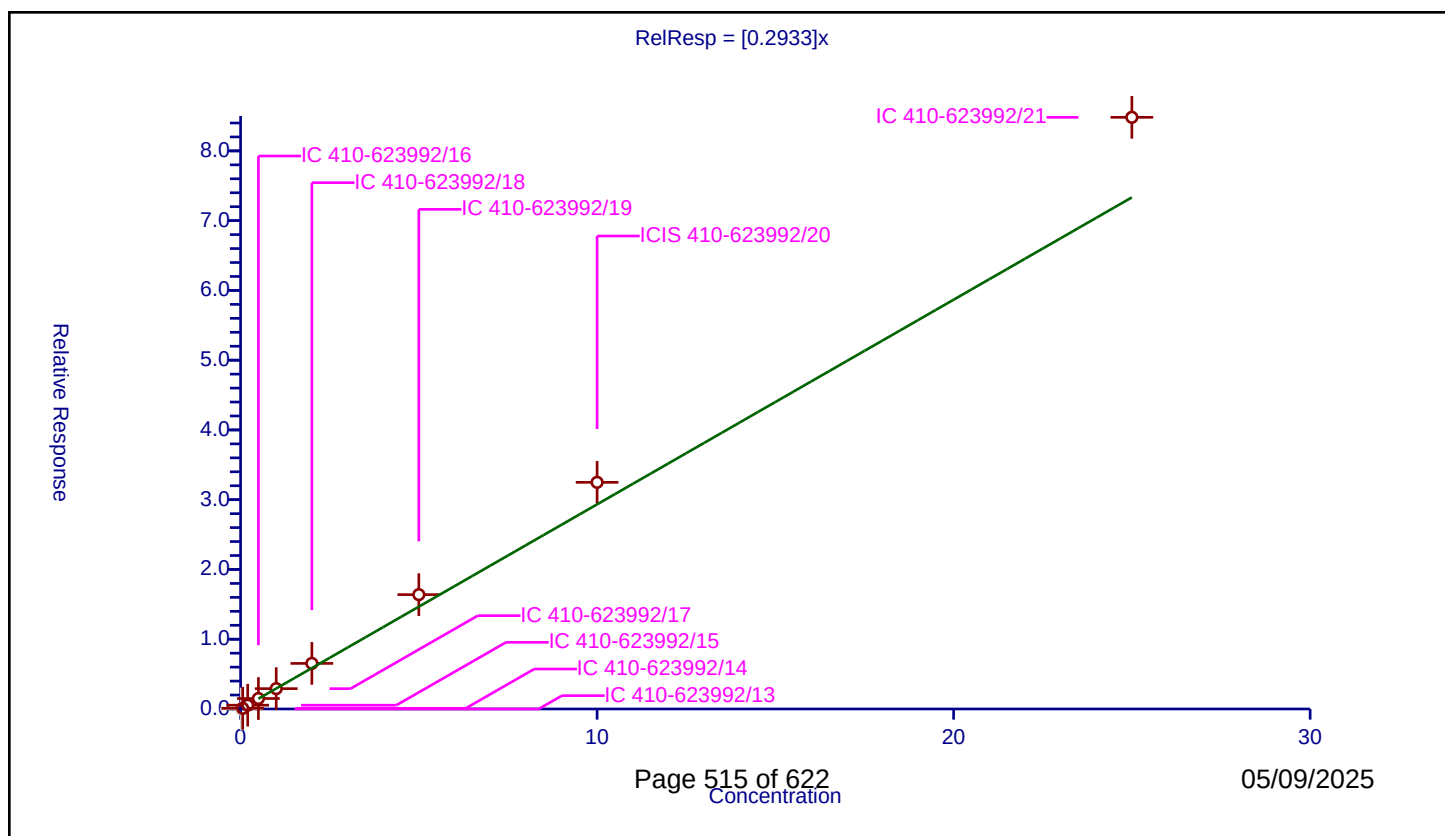
Curve Coefficients

Intercept: 0
Slope: 0.2933

Error Coefficients

Relative Standard Deviation: 19.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.0	10.0	1405222.0	0.0	N
2	IC 410-623992/14	0.06	0.009888	10.0	1401748.0	0.164794	Y
3	IC 410-623992/15	0.2	0.054298	10.0	1439661.0	0.271488	Y
4	IC 410-623992/16	0.5	0.15007	10.0	1446725.0	0.30014	Y
5	IC 410-623992/17	1.0	0.291586	10.0	1431171.0	0.291586	Y
6	IC 410-623992/18	2.0	0.653402	10.0	1437185.0	0.326701	Y
7	IC 410-623992/19	5.0	1.639177	10.0	1467773.0	0.327835	Y
8	ICIS 410-623992/20	10.0	3.248942	10.0	1458607.0	0.324894	Y
9	IC 410-623992/21	25.0	8.481266	10.0	1510883.0	0.339251	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

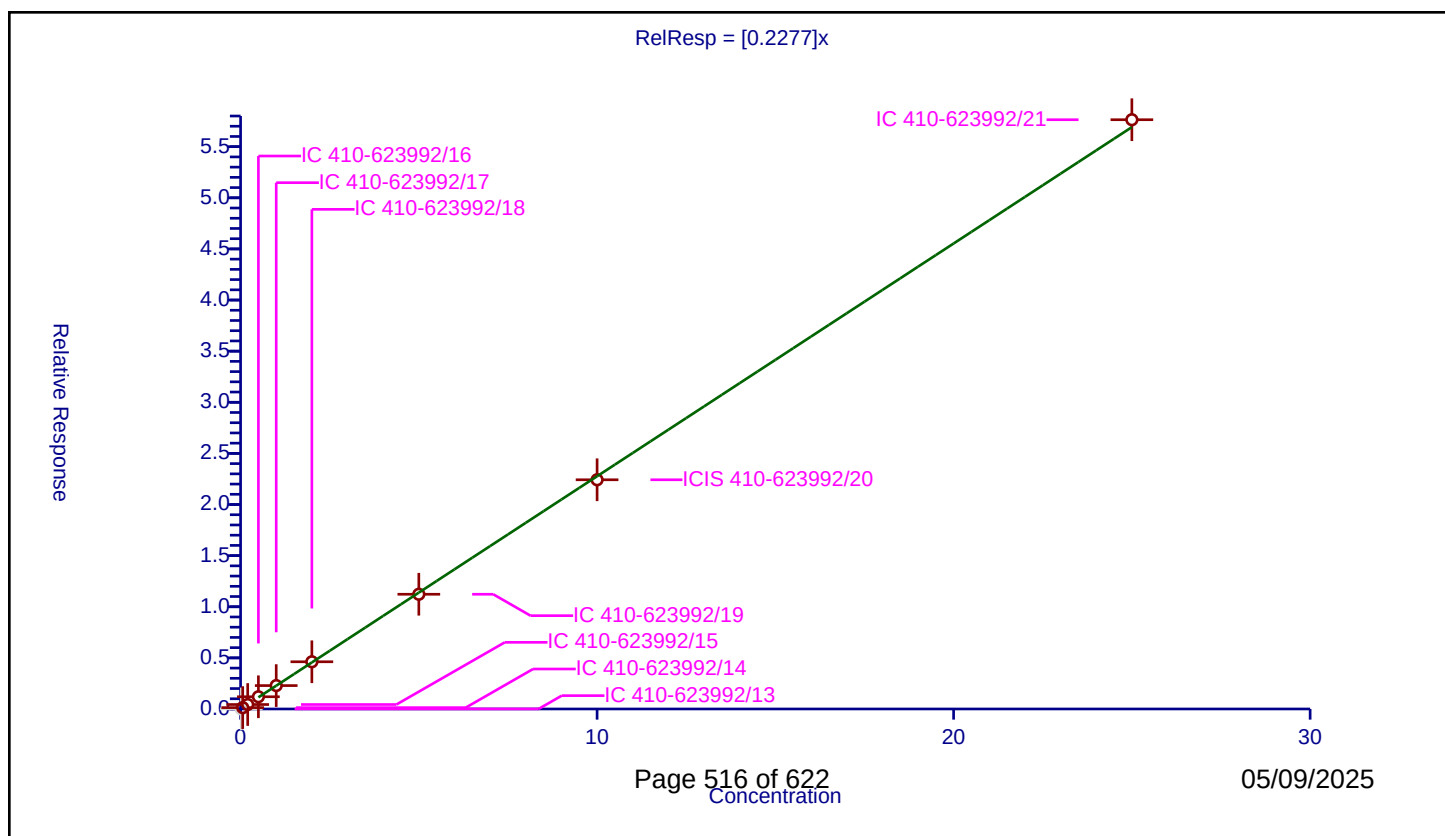
Curve Coefficients

Intercept: 0
Slope: 0.2277

Error Coefficients

Relative Standard Deviation: 2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.000897	10.0	1405222.0	0.044833	N
2	IC 410-623992/14	0.06	0.013497	10.0	1401748.0	0.224957	Y
3	IC 410-623992/15	0.2	0.043649	10.0	1439661.0	0.218246	Y
4	IC 410-623992/16	0.5	0.119587	10.0	1446725.0	0.239175	Y
5	IC 410-623992/17	1.0	0.228792	10.0	1431171.0	0.228792	Y
6	IC 410-623992/18	2.0	0.461757	10.0	1437185.0	0.230878	Y
7	IC 410-623992/19	5.0	1.122156	10.0	1467773.0	0.224431	Y
8	ICIS 410-623992/20	10.0	2.24192	10.0	1458607.0	0.224192	Y
9	IC 410-623992/21	25.0	5.763828	10.0	1510883.0	0.230553	Y



Calibration

/ Tetrachloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

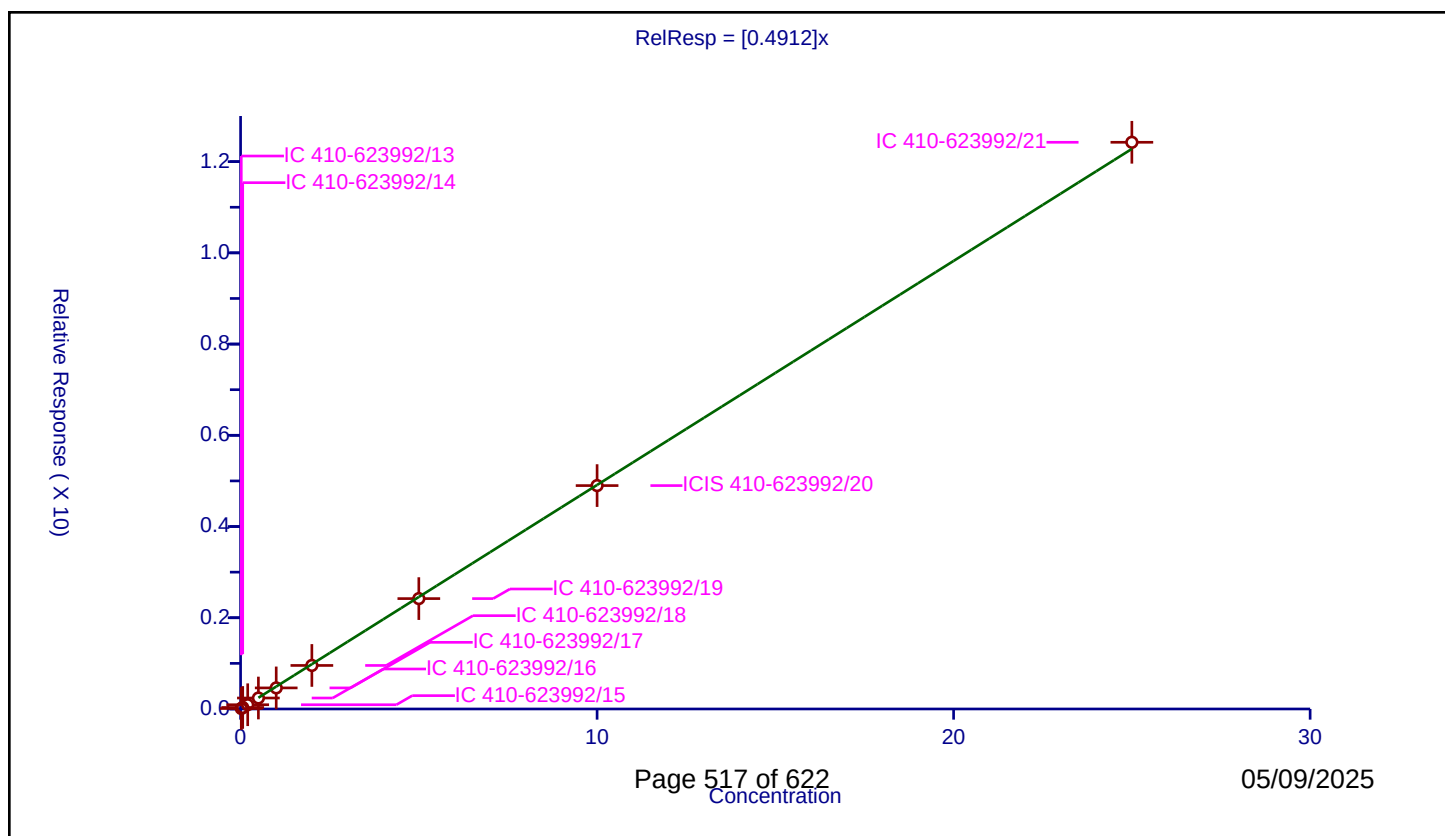
Curve Coefficients

Intercept: 0
Slope: 0.4912

Error Coefficients

Relative Standard Deviation: 5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.010155	10.0	1405222.0	0.507749	Y
2	IC 410-623992/14	0.06	0.033301	10.0	1401748.0	0.555021	Y
3	IC 410-623992/15	0.2	0.093314	10.0	1439661.0	0.466568	Y
4	IC 410-623992/16	0.5	0.240557	10.0	1446725.0	0.481114	Y
5	IC 410-623992/17	1.0	0.462027	10.0	1431171.0	0.462027	Y
6	IC 410-623992/18	2.0	0.954484	10.0	1437185.0	0.477242	Y
7	IC 410-623992/19	5.0	2.420061	10.0	1467773.0	0.484012	Y
8	ICIS 410-623992/20	10.0	4.897632	10.0	1458607.0	0.489763	Y
9	IC 410-623992/21	25.0	12.424145	10.0	1510883.0	0.496966	Y



Calibration

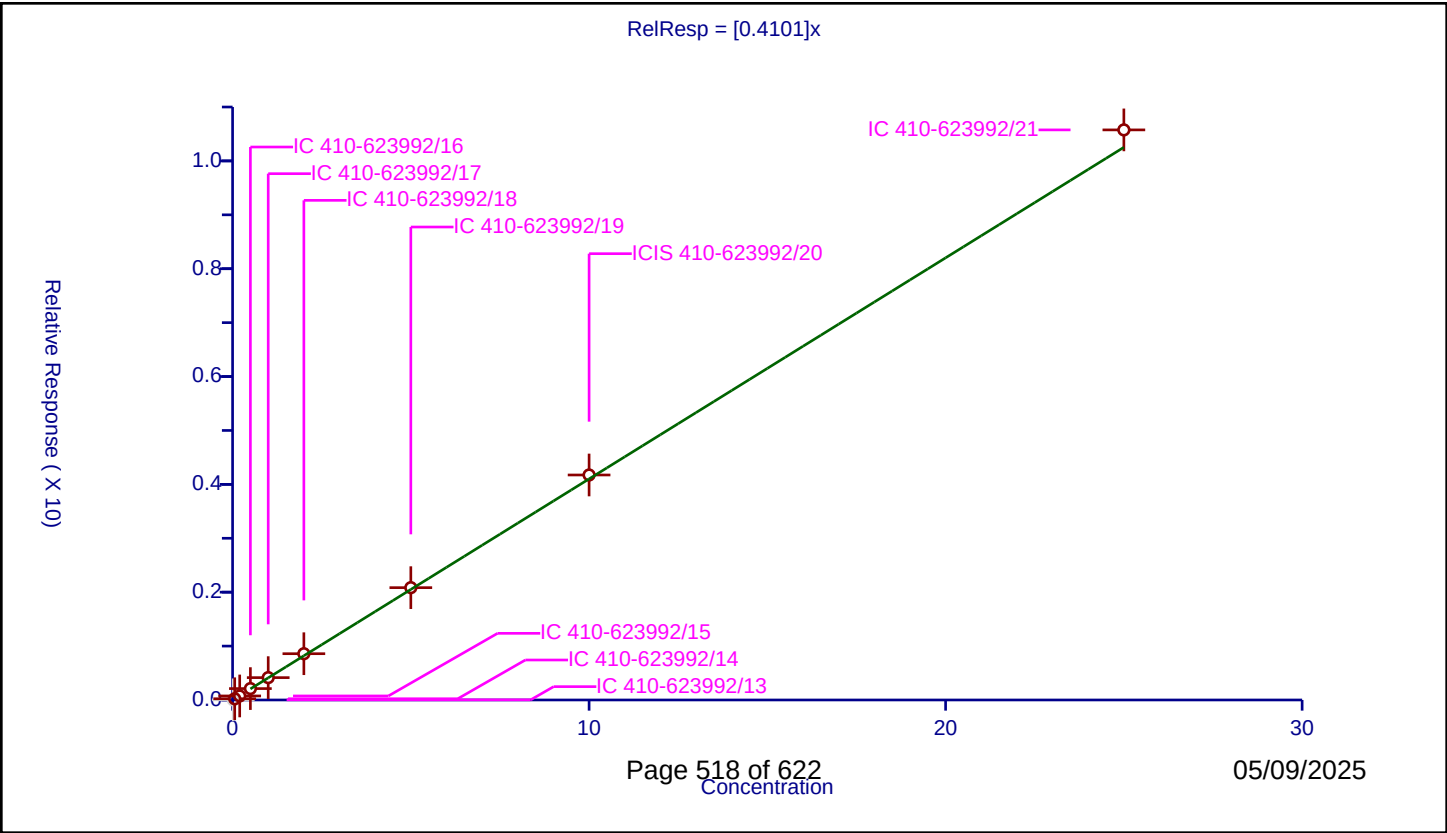
/ 1,3-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4101
Error Coefficients	

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.003195	10.0	1405222.0	0.159761	N
2	IC 410-623992/14	0.06	0.022879	10.0	1401748.0	0.38131	Y
3	IC 410-623992/15	0.2	0.074997	10.0	1439661.0	0.374984	Y
4	IC 410-623992/16	0.5	0.211574	10.0	1446725.0	0.423149	Y
5	IC 410-623992/17	1.0	0.415017	10.0	1431171.0	0.415017	Y
6	IC 410-623992/18	2.0	0.858296	10.0	1437185.0	0.429148	Y
7	IC 410-623992/19	5.0	2.083851	10.0	1467773.0	0.41677	Y
8	ICIS 410-623992/20	10.0	4.174044	10.0	1458607.0	0.417404	Y
9	IC 410-623992/21	25.0	10.575438	10.0	1510883.0	0.423018	Y



Calibration

/ 2-Hexanone

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

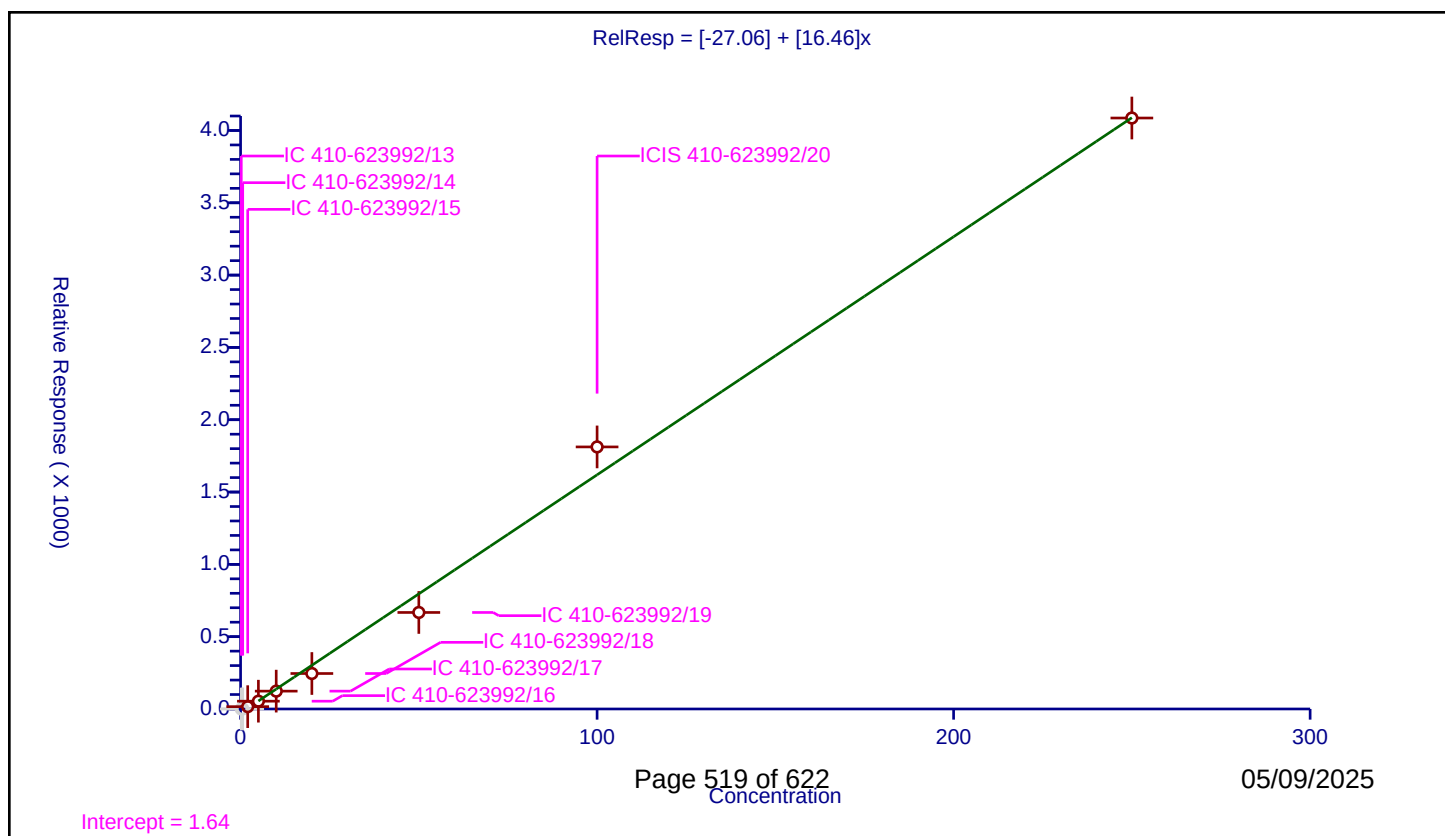
Curve Coefficients

Intercept: -27.06
Slope: 16.46

Error Coefficients

Relative Standard Deviation: 18.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.2	0.0	50.0	67983.0	0.0	N
2	IC 410-623992/14	0.6	0.900992	50.0	69368.0	1.501653	N
3	IC 410-623992/15	2.0	16.193316	50.0	55174.0	8.096658	Y
4	IC 410-623992/16	5.0	54.001157	50.0	62232.0	10.800231	Y
5	IC 410-623992/17	10.0	123.382787	50.0	62685.0	12.338279	Y
6	IC 410-623992/18	20.0	245.288977	50.0	66026.0	12.264449	Y
7	IC 410-623992/19	50.0	667.398127	50.0	62136.0	13.347963	Y
8	ICIS 410-623992/20	100.0	1812.078972	50.0	42040.0	18.12079	Y
9	IC 410-623992/21	250.0	4086.155718	50.0	53430.0	16.344623	Y



Calibration

/ Chlorodibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

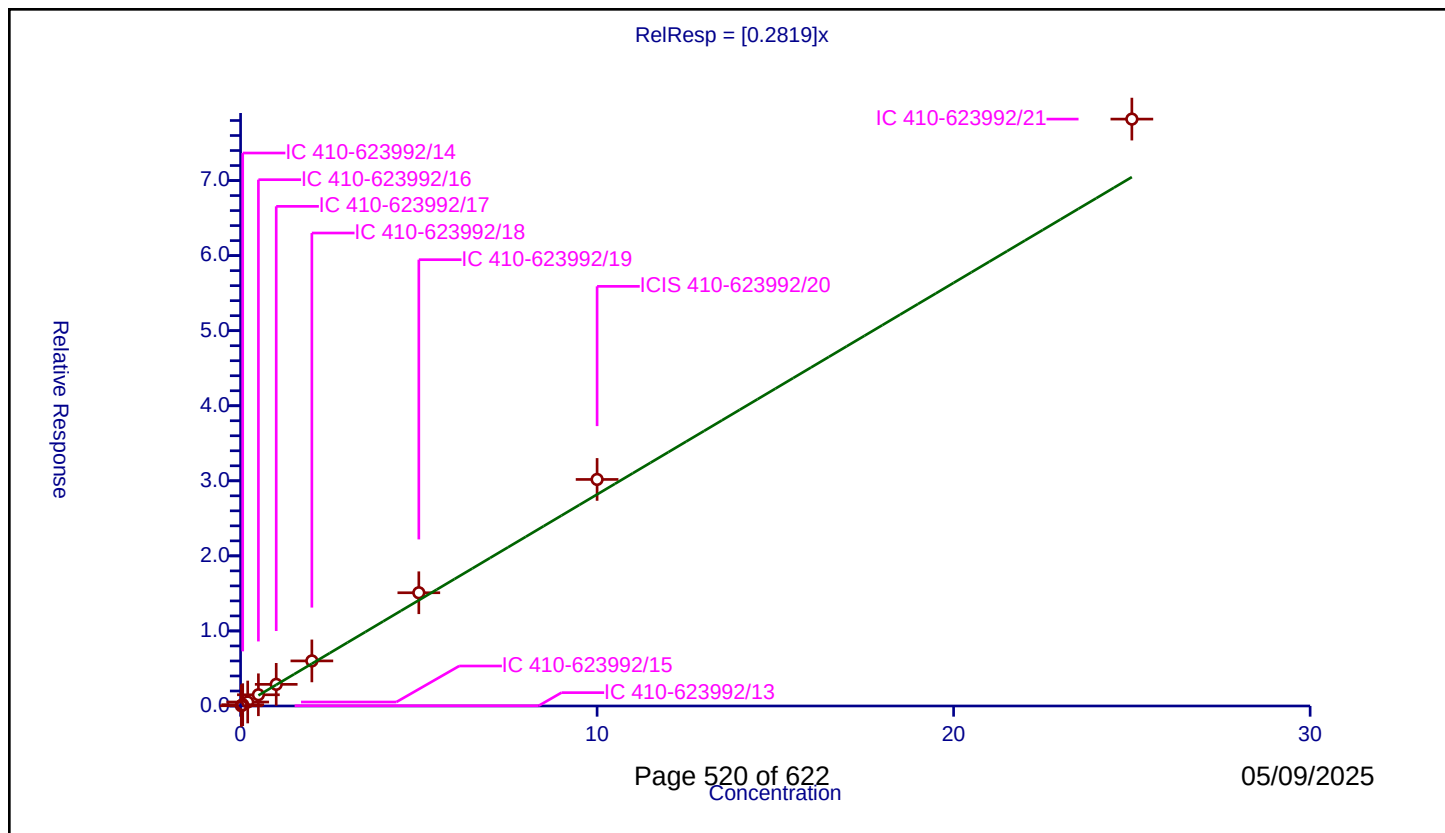
Curve Coefficients

Intercept: 0
Slope: 0.2819

Error Coefficients

Relative Standard Deviation: 14.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.003537	10.0	1405222.0	0.17684	Y
2	IC 410-623992/14	0.06	0.017471	10.0	1401748.0	0.291184	Y
3	IC 410-623992/15	0.2	0.052936	10.0	1439661.0	0.26468	Y
4	IC 410-623992/16	0.5	0.149545	10.0	1446725.0	0.299089	Y
5	IC 410-623992/17	1.0	0.288288	10.0	1431171.0	0.288288	Y
6	IC 410-623992/18	2.0	0.600723	10.0	1437185.0	0.300361	Y
7	IC 410-623992/19	5.0	1.508694	10.0	1467773.0	0.301739	Y
8	ICIS 410-623992/20	10.0	3.018236	10.0	1458607.0	0.301824	Y
9	IC 410-623992/21	25.0	7.818838	10.0	1510883.0	0.312754	Y



Calibration

/ Ethylene Dibromide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

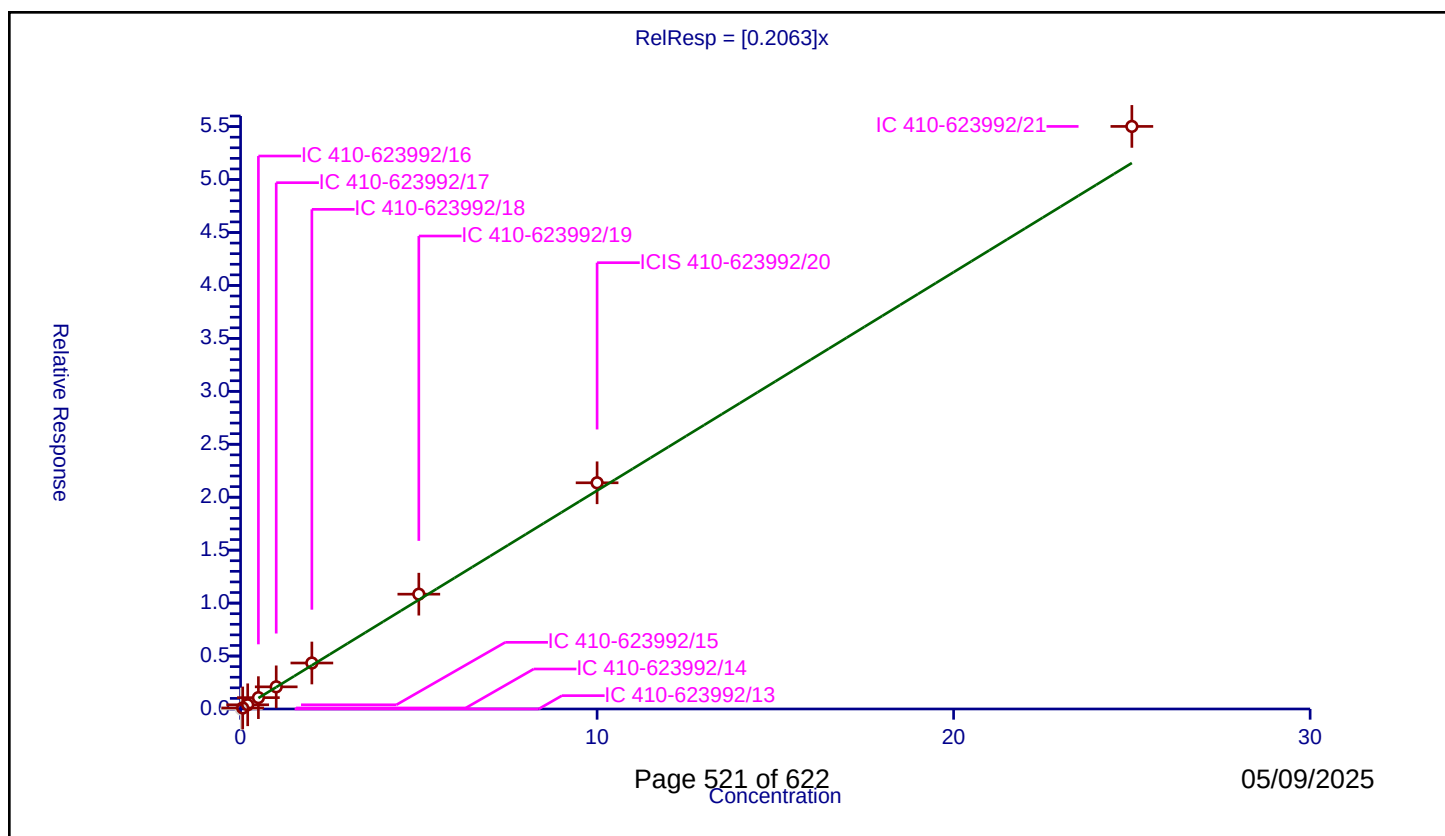
Curve Coefficients

Intercept: 0
Slope: 0.2063

Error Coefficients

Relative Standard Deviation: 9.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.0	10.0	1405222.0	0.0	N
2	IC 410-623992/14	0.06	0.009617	10.0	1401748.0	0.160276	Y
3	IC 410-623992/15	0.2	0.039752	10.0	1439661.0	0.198762	Y
4	IC 410-623992/16	0.5	0.107063	10.0	1446725.0	0.214125	Y
5	IC 410-623992/17	1.0	0.20922	10.0	1431171.0	0.20922	Y
6	IC 410-623992/18	2.0	0.434203	10.0	1437185.0	0.217101	Y
7	IC 410-623992/19	5.0	1.084282	10.0	1467773.0	0.216856	Y
8	ICIS 410-623992/20	10.0	2.136175	10.0	1458607.0	0.213618	Y
9	IC 410-623992/21	25.0	5.50167	10.0	1510883.0	0.220067	Y



Calibration

/ 1-Chlorohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

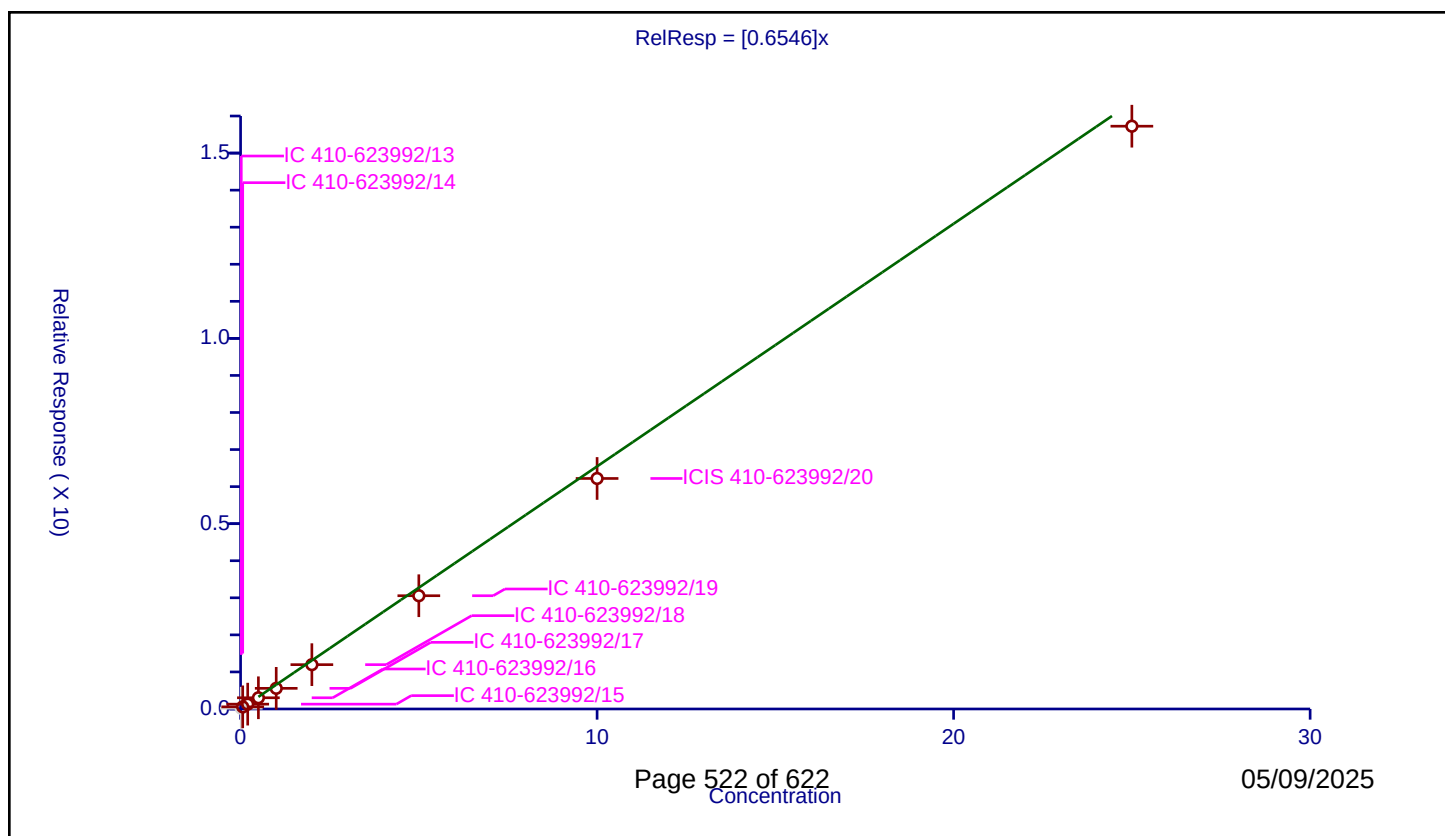
Curve Coefficients

Intercept: 0
Slope: 0.6546

Error Coefficients

Relative Standard Deviation: 19.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.021413	10.0	1405222.0	1.070649	N
2	IC 410-623992/14	0.06	0.057621	10.0	1401748.0	0.960349	Y
3	IC 410-623992/15	0.2	0.130899	10.0	1439661.0	0.654494	Y
4	IC 410-623992/16	0.5	0.302207	10.0	1446725.0	0.604413	Y
5	IC 410-623992/17	1.0	0.557515	10.0	1431171.0	0.557515	Y
6	IC 410-623992/18	2.0	1.195879	10.0	1437185.0	0.59794	Y
7	IC 410-623992/19	5.0	3.056072	10.0	1467773.0	0.611214	Y
8	ICIS 410-623992/20	10.0	6.219715	10.0	1458607.0	0.621972	Y
9	IC 410-623992/21	25.0	15.725016	10.0	1510883.0	0.629001	Y



Calibration

/ Chlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

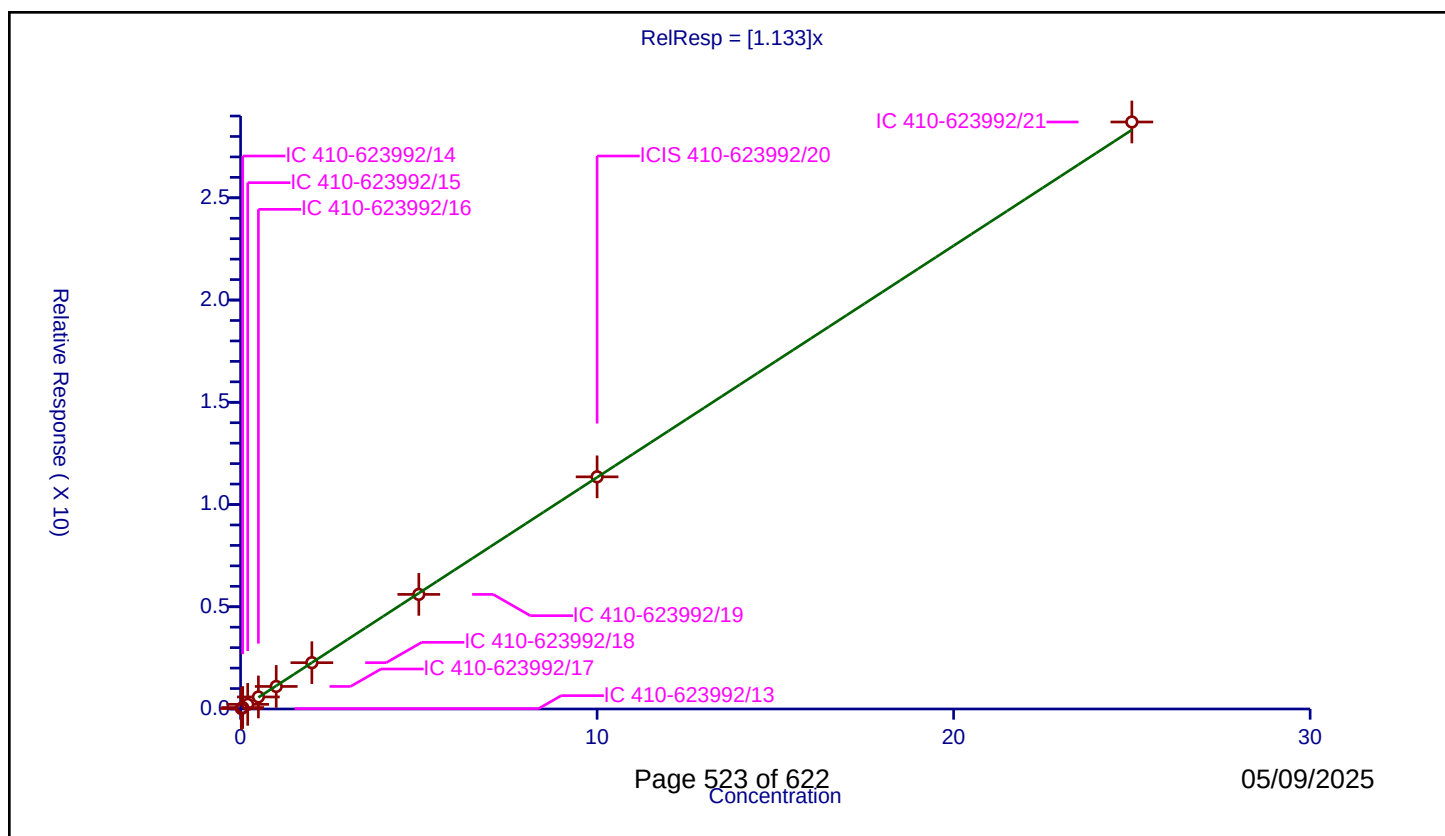
Curve Coefficients

Intercept: 0
Slope: 1.133

Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.020509	10.0	1405222.0	1.025461	Y
2	IC 410-623992/14	0.06	0.072752	10.0	1401748.0	1.212534	Y
3	IC 410-623992/15	0.2	0.227852	10.0	1439661.0	1.139261	Y
4	IC 410-623992/16	0.5	0.588806	10.0	1446725.0	1.177612	Y
5	IC 410-623992/17	1.0	1.103041	10.0	1431171.0	1.103041	Y
6	IC 410-623992/18	2.0	2.265269	10.0	1437185.0	1.132634	Y
7	IC 410-623992/19	5.0	5.605022	10.0	1467773.0	1.121004	Y
8	ICIS 410-623992/20	10.0	11.352873	10.0	1458607.0	1.135287	Y
9	IC 410-623992/21	25.0	28.708331	10.0	1510883.0	1.148333	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

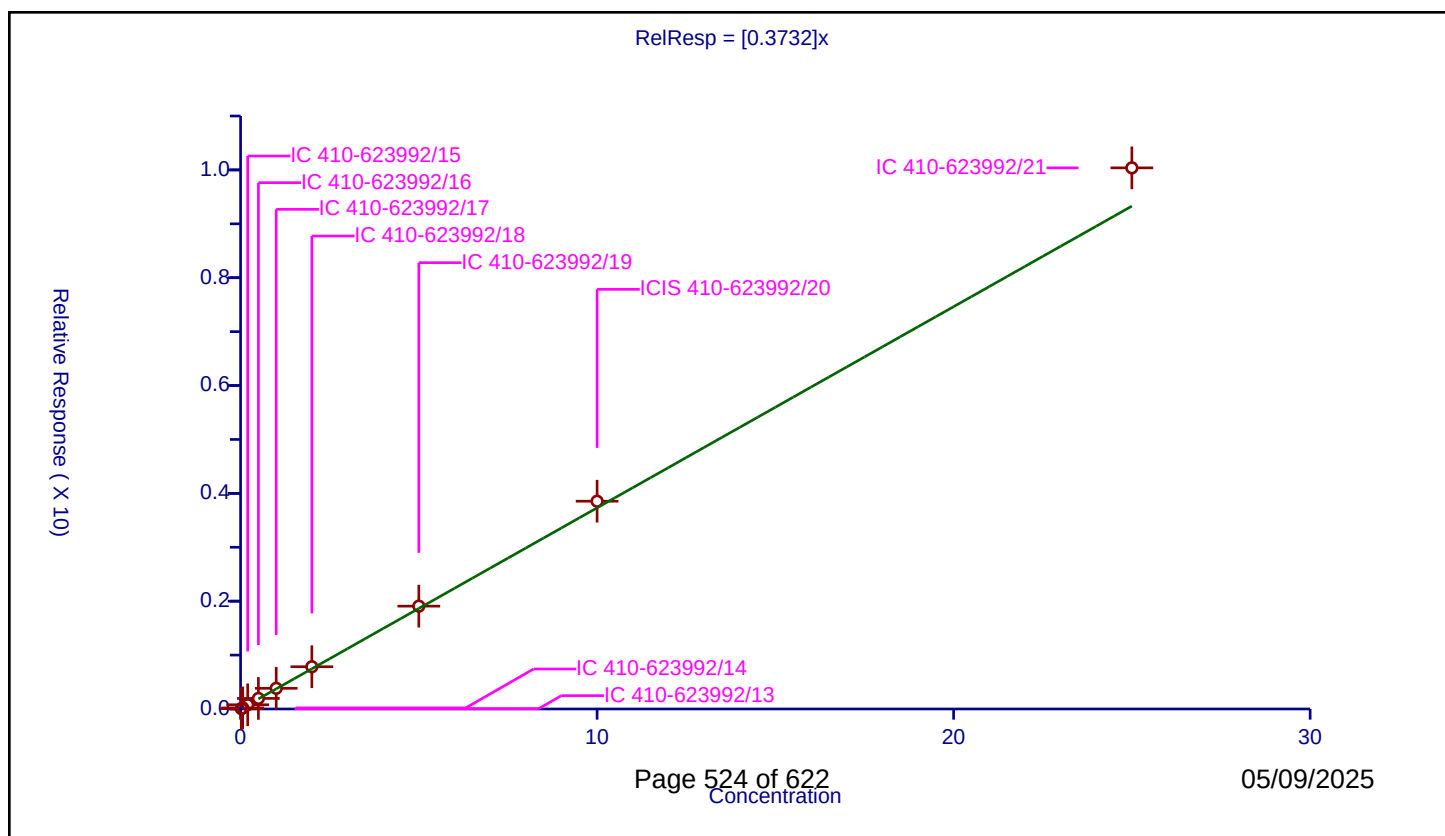
Curve Coefficients

Intercept: 0
Slope: 0.3732

Error Coefficients

Relative Standard Deviation: 9.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.005907	10.0	1405222.0	0.295327	Y
2	IC 410-623992/14	0.06	0.020139	10.0	1401748.0	0.335652	Y
3	IC 410-623992/15	0.2	0.078171	10.0	1439661.0	0.390856	Y
4	IC 410-623992/16	0.5	0.196195	10.0	1446725.0	0.39239	Y
5	IC 410-623992/17	1.0	0.383707	10.0	1431171.0	0.383707	Y
6	IC 410-623992/18	2.0	0.78372	10.0	1437185.0	0.39186	Y
7	IC 410-623992/19	5.0	1.907938	10.0	1467773.0	0.381588	Y
8	ICIS 410-623992/20	10.0	3.85441	10.0	1458607.0	0.385441	Y
9	IC 410-623992/21	25.0	10.038547	10.0	1510883.0	0.401542	Y



Calibration

/ Ethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

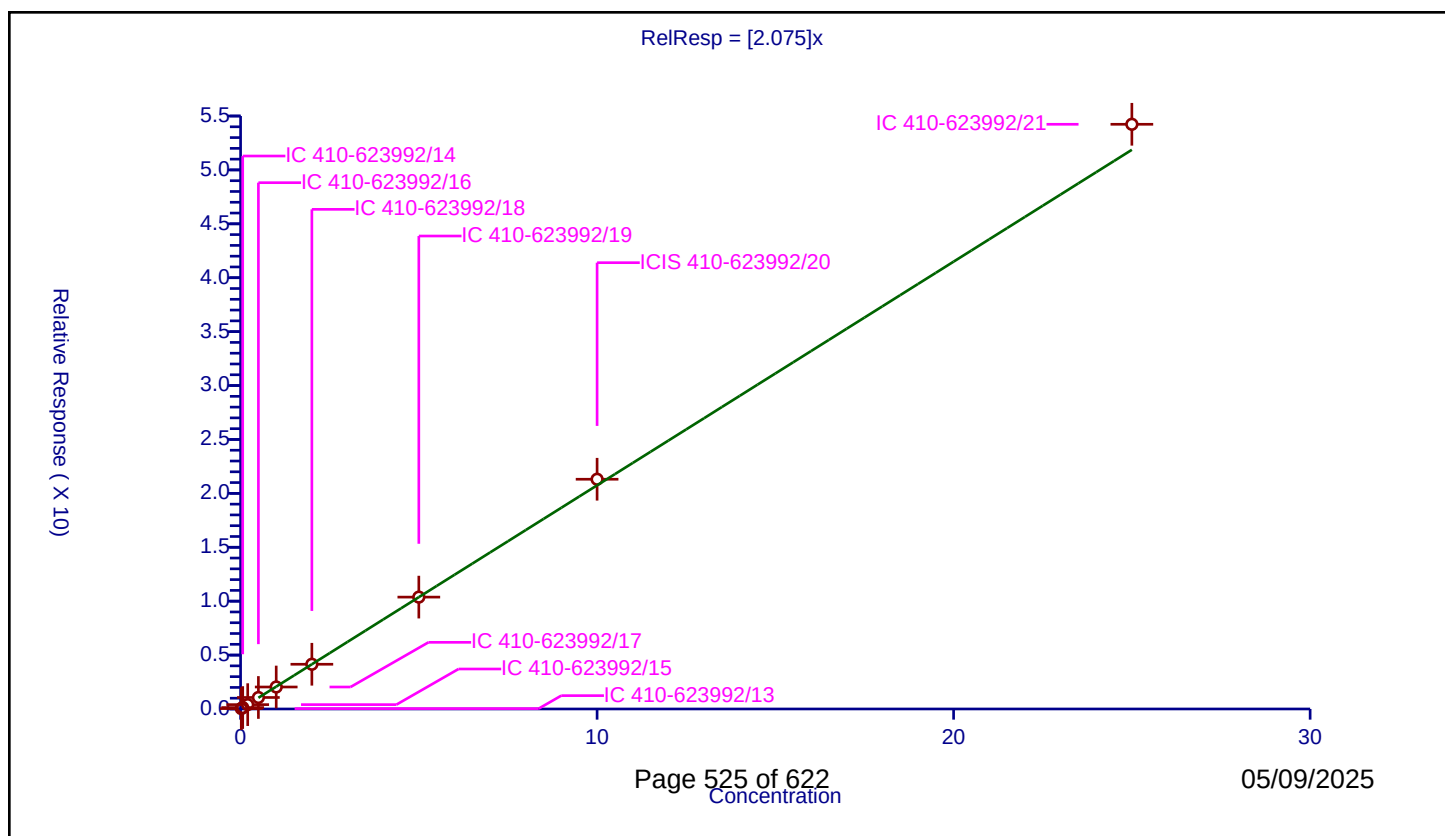
Curve Coefficients

Intercept: 0
Slope: 2.075

Error Coefficients

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.036549	10.0	1405222.0	1.827469	Y
2	IC 410-623992/14	0.06	0.132092	10.0	1401748.0	2.201537	Y
3	IC 410-623992/15	0.2	0.404109	10.0	1439661.0	2.020545	Y
4	IC 410-623992/16	0.5	1.066028	10.0	1446725.0	2.132057	Y
5	IC 410-623992/17	1.0	2.039763	10.0	1431171.0	2.039763	Y
6	IC 410-623992/18	2.0	4.149438	10.0	1437185.0	2.074719	Y
7	IC 410-623992/19	5.0	10.37608	10.0	1467773.0	2.075216	Y
8	ICIS 410-623992/20	10.0	21.309523	10.0	1458607.0	2.130952	Y
9	IC 410-623992/21	25.0	54.232101	10.0	1510883.0	2.169284	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

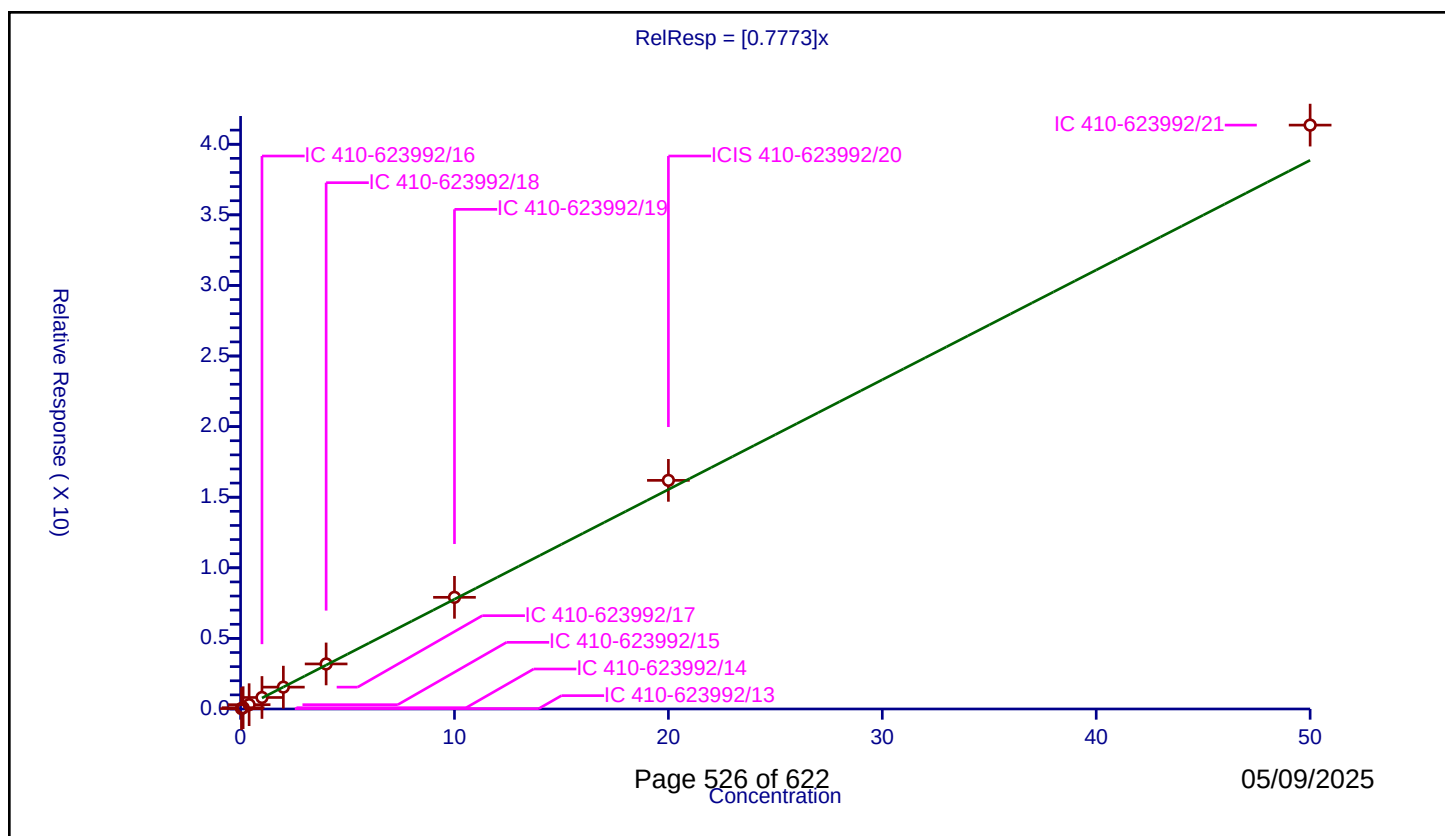
Curve Coefficients

Intercept: 0
 Slope: 0.7773

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.04	0.02653	10.0	1405222.0	0.66324	Y
2	IC 410-623992/14	0.12	0.090829	10.0	1401748.0	0.756912	Y
3	IC 410-623992/15	0.4	0.304461	10.0	1439661.0	0.761151	Y
4	IC 410-623992/16	1.0	0.814751	10.0	1446725.0	0.814751	Y
5	IC 410-623992/17	2.0	1.548781	10.0	1431171.0	0.77439	Y
6	IC 410-623992/18	4.0	3.1908	10.0	1437185.0	0.7977	Y
7	IC 410-623992/19	10.0	7.908914	10.0	1467773.0	0.790891	Y
8	ICIS 410-623992/20	20.0	16.193704	10.0	1458607.0	0.809685	Y
9	IC 410-623992/21	50.0	41.355492	10.0	1510883.0	0.82711	Y



Calibration

/ o-Xylene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

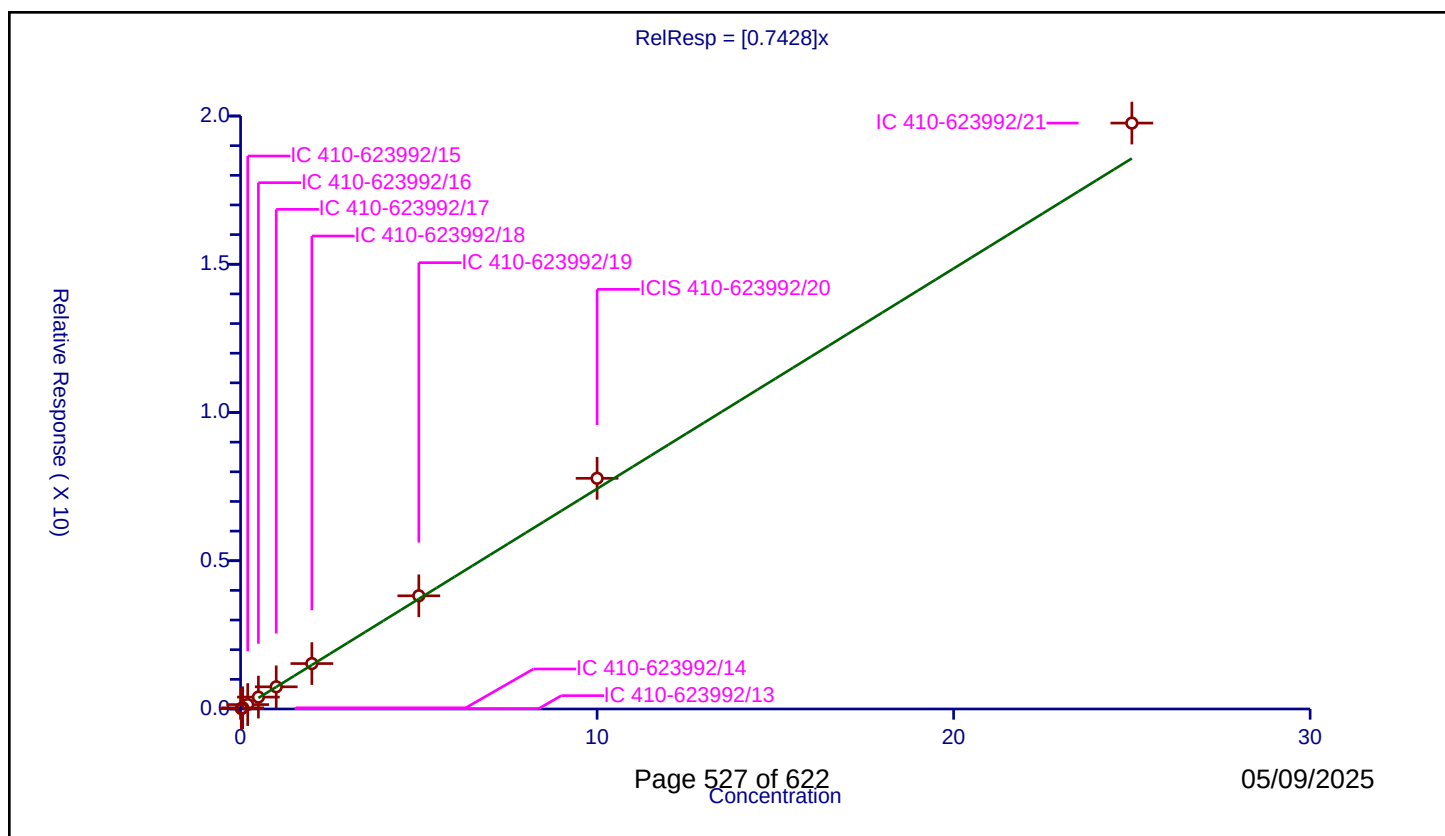
Curve Coefficients

Intercept: 0
Slope: 0.7428

Error Coefficients

Relative Standard Deviation: 7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.012482	10.0	1405222.0	0.624101	Y
2	IC 410-623992/14	0.06	0.040164	10.0	1401748.0	0.669402	Y
3	IC 410-623992/15	0.2	0.148695	10.0	1439661.0	0.743474	Y
4	IC 410-623992/16	0.5	0.401203	10.0	1446725.0	0.802405	Y
5	IC 410-623992/17	1.0	0.747863	10.0	1431171.0	0.747863	Y
6	IC 410-623992/18	2.0	1.53187	10.0	1437185.0	0.765935	Y
7	IC 410-623992/19	5.0	3.817661	10.0	1467773.0	0.763532	Y
8	ICIS 410-623992/20	10.0	7.780225	10.0	1458607.0	0.778022	Y
9	IC 410-623992/21	25.0	19.761259	10.0	1510883.0	0.79045	Y



Calibration

/ Styrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

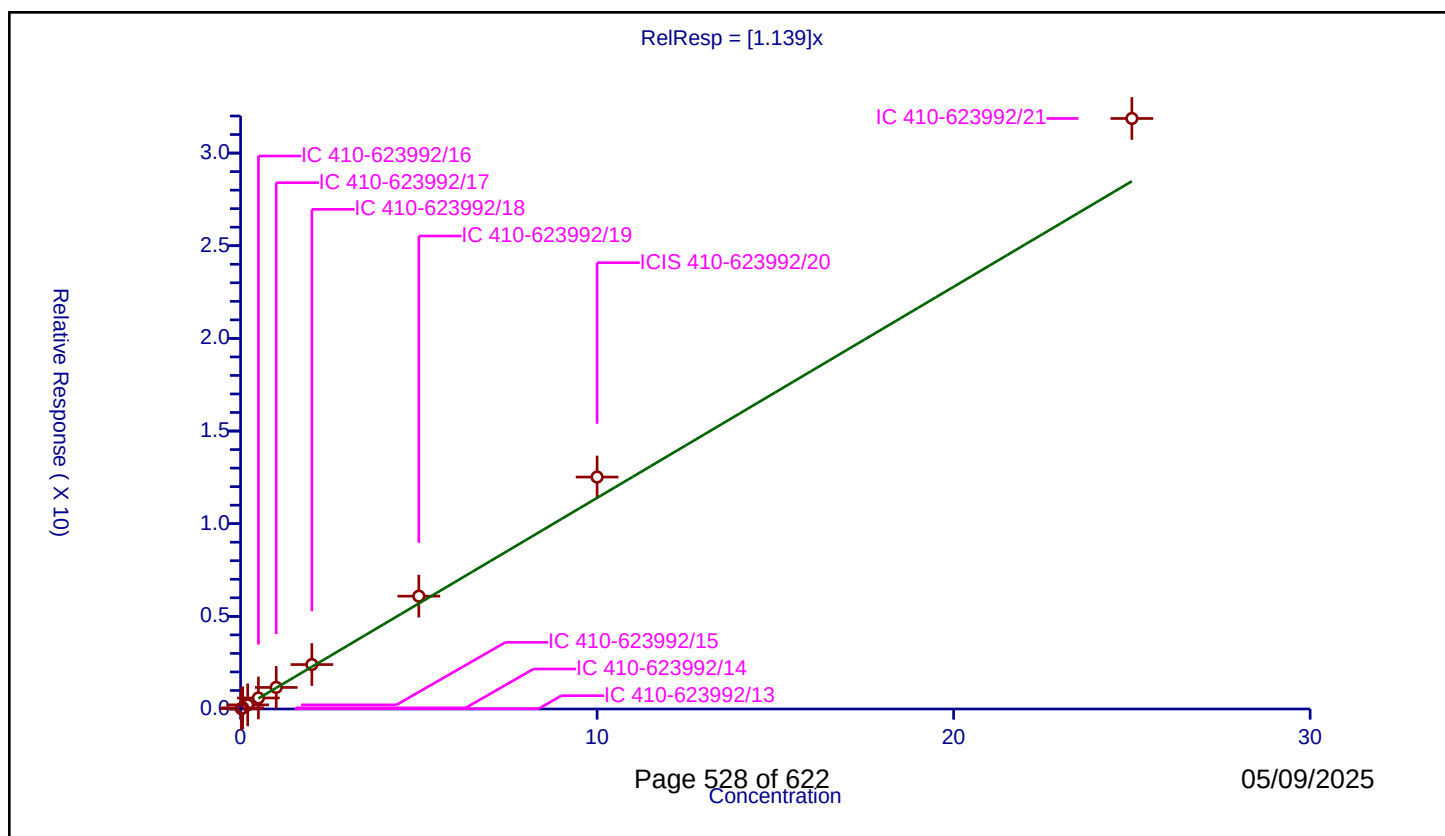
Curve Coefficients

Intercept: 0
Slope: 1.139

Error Coefficients

Relative Standard Deviation: 12.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.015891	10.0	1405222.0	0.794536	Y
2	IC 410-623992/14	0.06	0.062872	10.0	1401748.0	1.047858	Y
3	IC 410-623992/15	0.2	0.222365	10.0	1439661.0	1.111824	Y
4	IC 410-623992/16	0.5	0.595683	10.0	1446725.0	1.191367	Y
5	IC 410-623992/17	1.0	1.163579	10.0	1431171.0	1.163579	Y
6	IC 410-623992/18	2.0	2.398306	10.0	1437185.0	1.199153	Y
7	IC 410-623992/19	5.0	6.089327	10.0	1467773.0	1.217865	Y
8	ICIS 410-623992/20	10.0	12.515804	10.0	1458607.0	1.25158	Y
9	IC 410-623992/21	25.0	31.867795	10.0	1510883.0	1.274712	Y



Calibration

/ Bromoform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

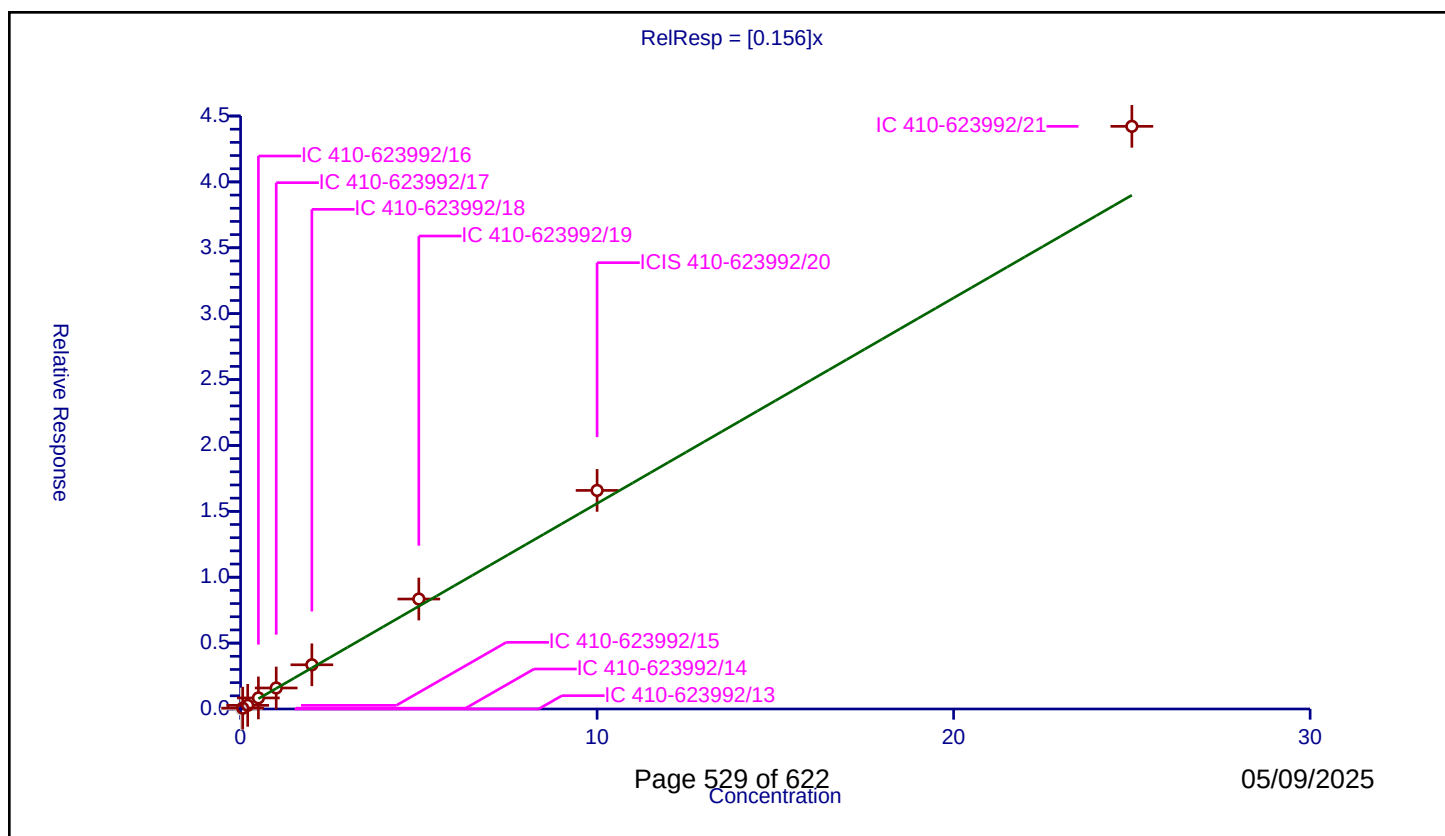
Curve Coefficients

Intercept: 0
Slope: 0.156

Error Coefficients

Relative Standard Deviation: 15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.0	10.0	1405222.0	0.0	N
2	IC 410-623992/14	0.06	0.006328	10.0	1401748.0	0.105464	Y
3	IC 410-623992/15	0.2	0.027534	10.0	1439661.0	0.137671	Y
4	IC 410-623992/16	0.5	0.083914	10.0	1446725.0	0.167827	Y
5	IC 410-623992/17	1.0	0.159436	10.0	1431171.0	0.159436	Y
6	IC 410-623992/18	2.0	0.335399	10.0	1437185.0	0.167699	Y
7	IC 410-623992/19	5.0	0.834543	10.0	1467773.0	0.166909	Y
8	ICIS 410-623992/20	10.0	1.658672	10.0	1458607.0	0.165867	Y
9	IC 410-623992/21	25.0	4.4216	10.0	1510883.0	0.176864	Y



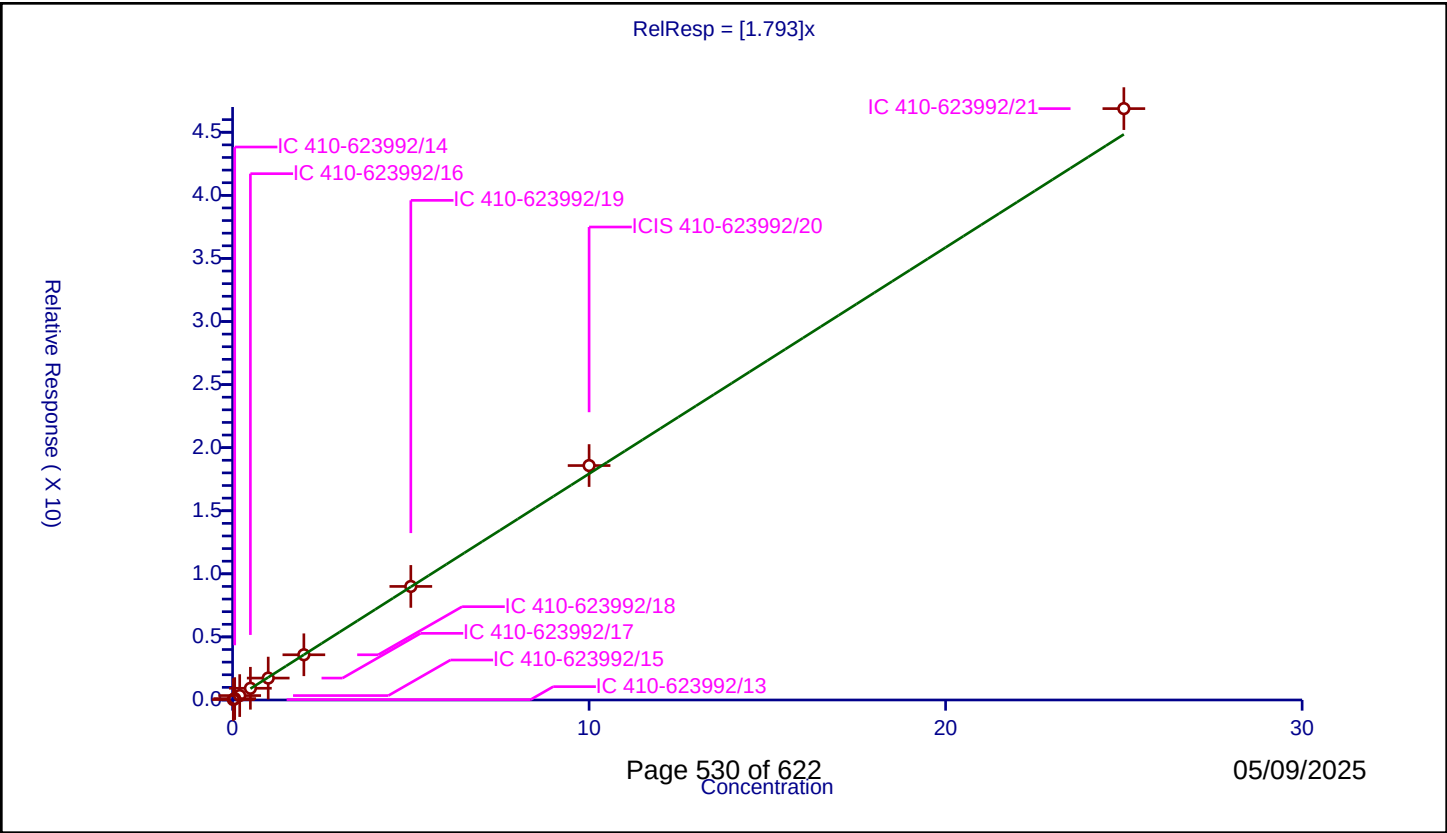
Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.793

Error Coefficients	
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Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.032664	10.0	1405222.0	1.633194	Y
2	IC 410-623992/14	0.06	0.110148	10.0	1401748.0	1.835803	Y
3	IC 410-623992/15	0.2	0.350805	10.0	1439661.0	1.754024	Y
4	IC 410-623992/16	0.5	0.928234	10.0	1446725.0	1.856469	Y
5	IC 410-623992/17	1.0	1.736466	10.0	1431171.0	1.736466	Y
6	IC 410-623992/18	2.0	3.582684	10.0	1437185.0	1.791342	Y
7	IC 410-623992/19	5.0	9.001038	10.0	1467773.0	1.800208	Y
8	ICIS 410-623992/20	10.0	18.581578	10.0	1458607.0	1.858158	Y
9	IC 410-623992/21	25.0	46.873418	10.0	1510883.0	1.874937	Y



Calibration

/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

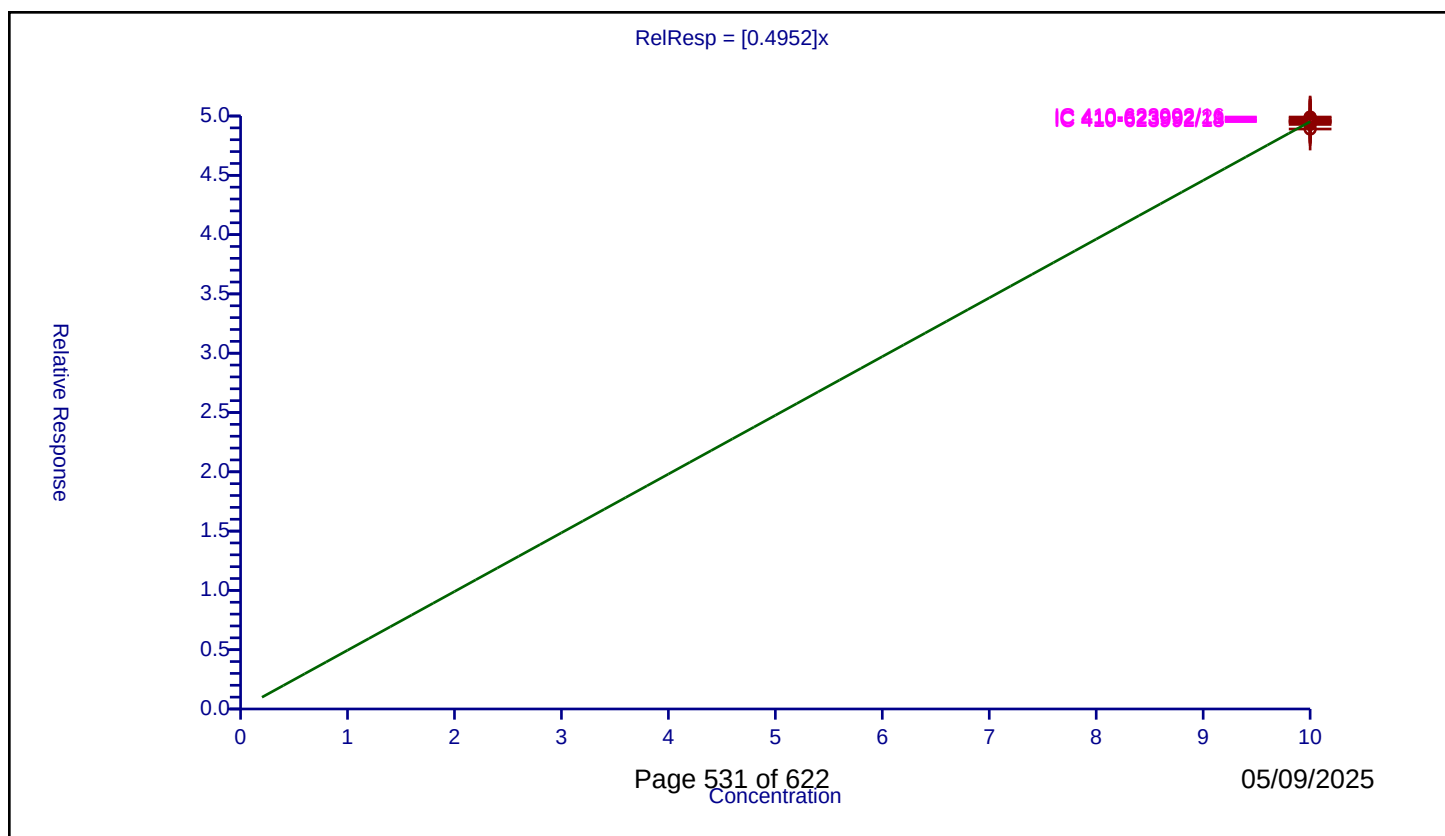
Curve Coefficients

Intercept: 0
 Slope: 0.4952

Error Coefficients

Relative Standard Deviation: 0.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/21	10.0	4.983397	10.0	1510883.0	0.49834	Y
2	ICIS 410-623992/20	10.0	4.928709	10.0	1458607.0	0.492871	Y
3	IC 410-623992/19	10.0	4.950854	10.0	1467773.0	0.495085	Y
4	IC 410-623992/18	10.0	4.964803	10.0	1437185.0	0.49648	Y
5	IC 410-623992/17	10.0	4.94342	10.0	1431171.0	0.494342	Y
6	IC 410-623992/16	10.0	4.99137	10.0	1446725.0	0.499137	Y
7	IC 410-623992/15	10.0	4.890193	10.0	1439661.0	0.489019	Y
8	IC 410-623992/14	10.0	4.964637	10.0	1401748.0	0.496464	Y
9	IC 410-623992/13	10.0	4.952797	10.0	1405222.0	0.49528	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

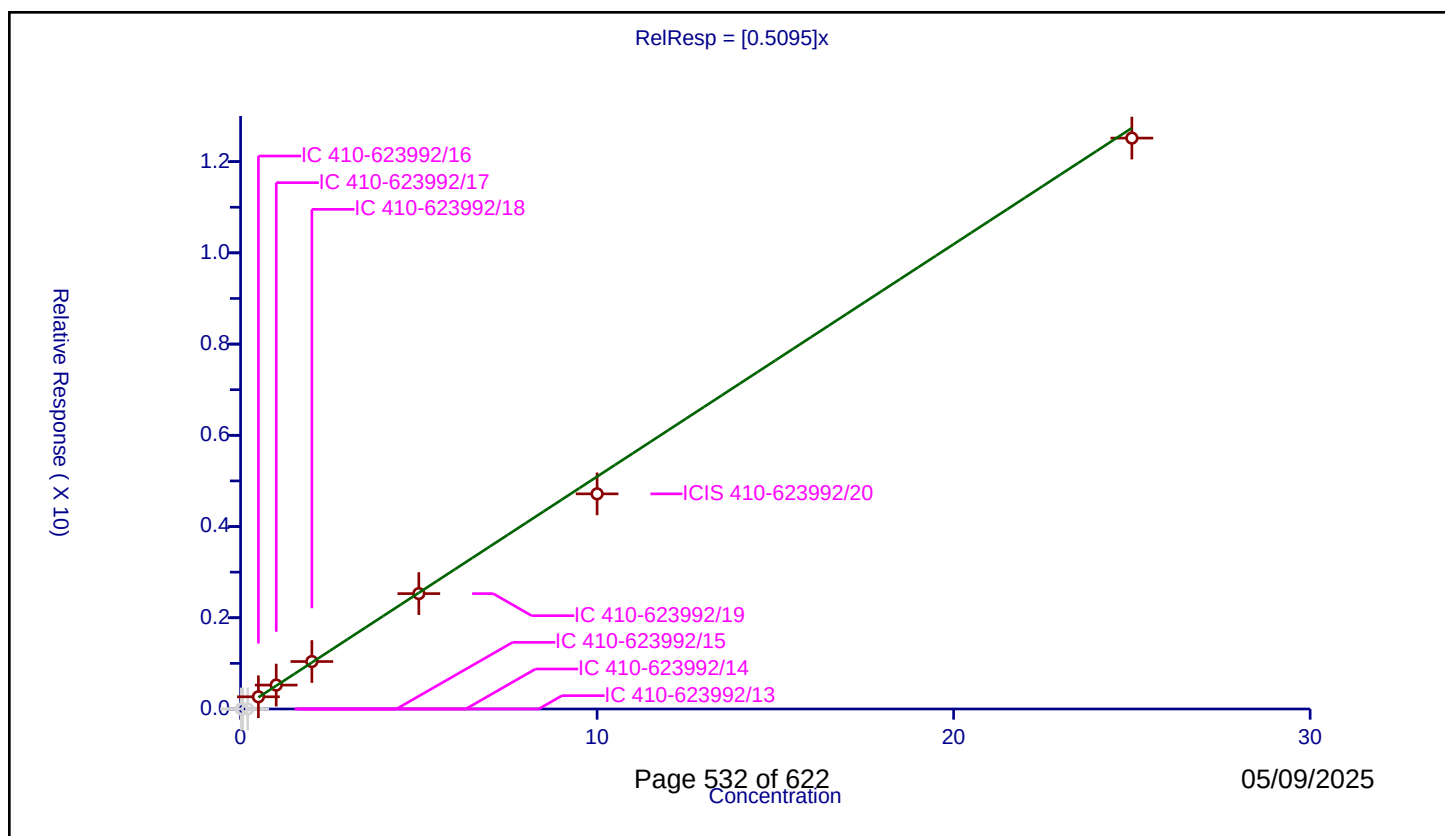
Curve Coefficients

Intercept: 0
Slope: 0.5095

Error Coefficients

Relative Standard Deviation: 4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.0	10.0	743425.0	0.0	N
2	IC 410-623992/14	0.06	0.0	10.0	750682.0	0.0	N
3	IC 410-623992/15	0.2	0.0	10.0	765014.0	0.0	N
4	IC 410-623992/16	0.5	0.26724	10.0	769122.0	0.53448	Y
5	IC 410-623992/17	1.0	0.524185	10.0	763700.0	0.524185	Y
6	IC 410-623992/18	2.0	1.040074	10.0	758619.0	0.520037	Y
7	IC 410-623992/19	5.0	2.529153	10.0	782167.0	0.505831	Y
8	ICIS 410-623992/20	10.0	4.716254	10.0	791747.0	0.471625	Y
9	IC 410-623992/21	25.0	12.515849	10.0	829879.0	0.500634	Y



Calibration

/ Bromobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

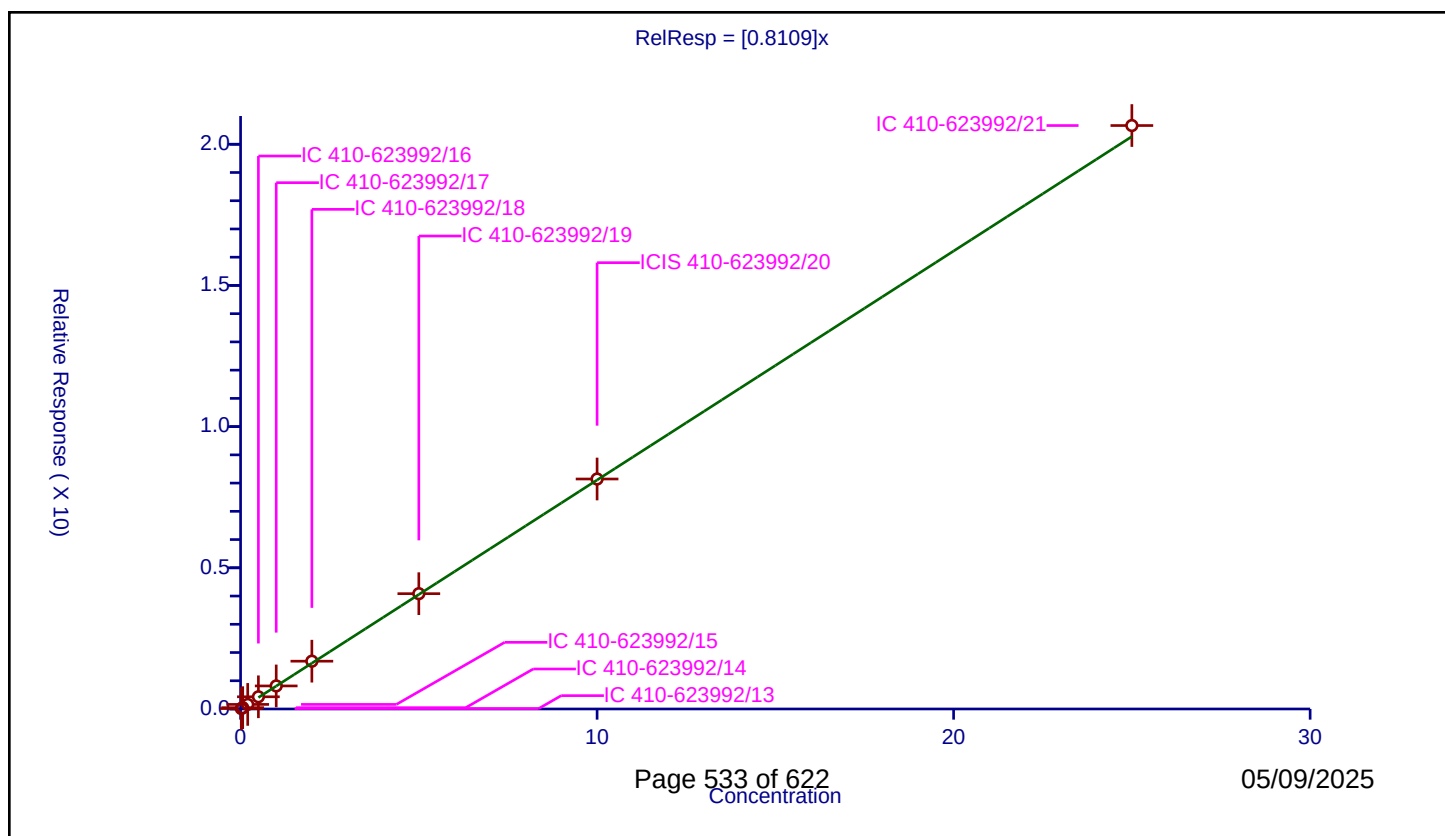
Curve Coefficients

Intercept: 0
Slope: 0.8109

Error Coefficients

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.014675	10.0	743425.0	0.733766	Y
2	IC 410-623992/14	0.06	0.046358	10.0	750682.0	0.772631	Y
3	IC 410-623992/15	0.2	0.161526	10.0	765014.0	0.807632	Y
4	IC 410-623992/16	0.5	0.431921	10.0	769122.0	0.863842	Y
5	IC 410-623992/17	1.0	0.816237	10.0	763700.0	0.816237	Y
6	IC 410-623992/18	2.0	1.692655	10.0	758619.0	0.846327	Y
7	IC 410-623992/19	5.0	4.084013	10.0	782167.0	0.816803	Y
8	ICIS 410-623992/20	10.0	8.145102	10.0	791747.0	0.81451	Y
9	IC 410-623992/21	25.0	20.662687	10.0	829879.0	0.826507	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

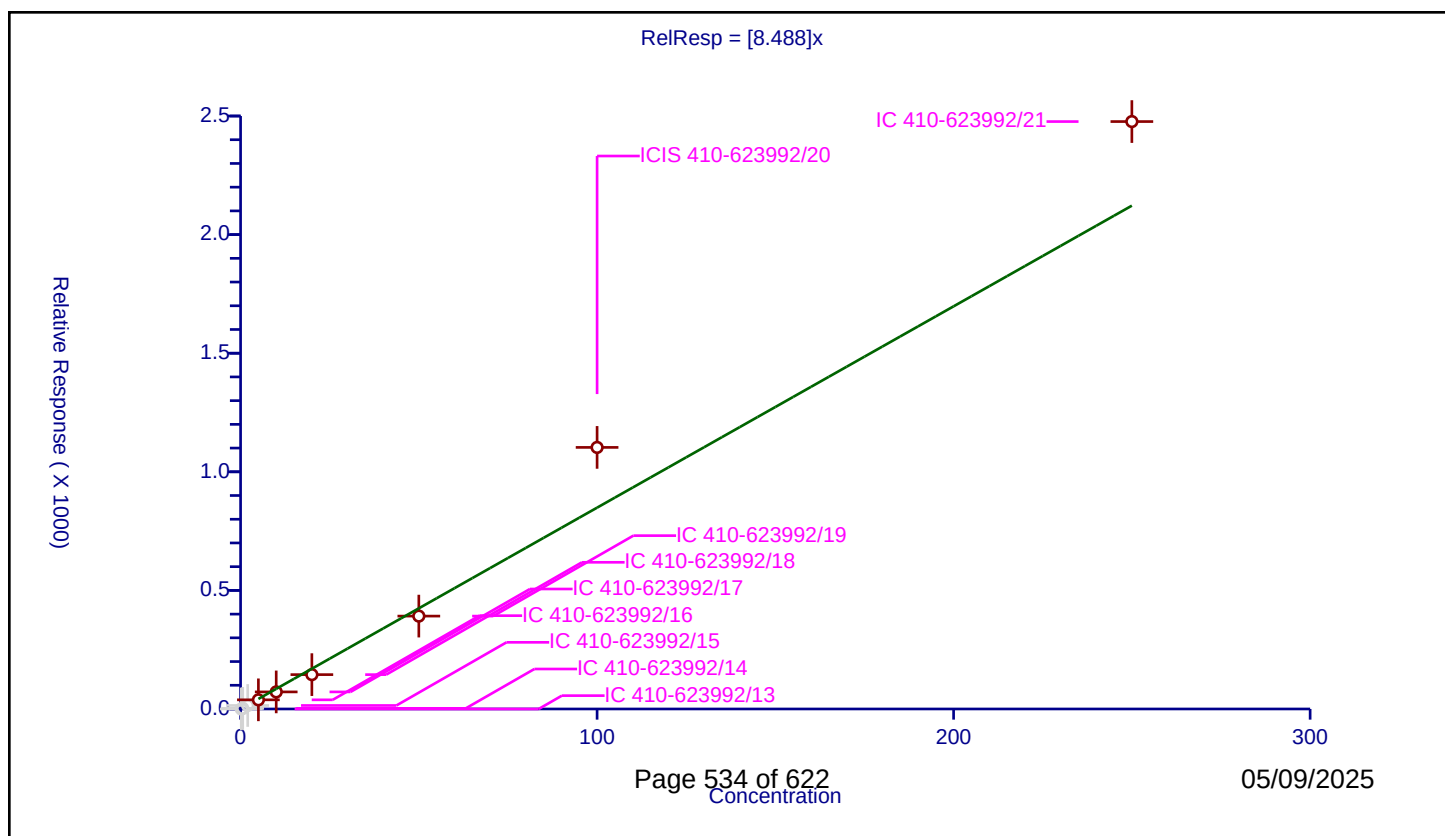
Curve Coefficients

Intercept: 0
Slope: 8.488

Error Coefficients

Relative Standard Deviation: 18.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.2	0.083109	50.0	67983.0	0.415545	N
2	IC 410-623992/14	0.6	2.677748	50.0	69368.0	4.462913	N
3	IC 410-623992/15	2.0	14.746076	50.0	55174.0	7.373038	N
4	IC 410-623992/16	5.0	38.584651	50.0	62232.0	7.71693	Y
5	IC 410-623992/17	10.0	72.008455	50.0	62685.0	7.200845	Y
6	IC 410-623992/18	20.0	144.867174	50.0	66026.0	7.243359	Y
7	IC 410-623992/19	50.0	391.649768	50.0	62136.0	7.832995	Y
8	ICIS 410-623992/20	100.0	1102.803283	50.0	42040.0	11.028033	Y
9	IC 410-623992/21	250.0	2476.638593	50.0	53430.0	9.906554	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

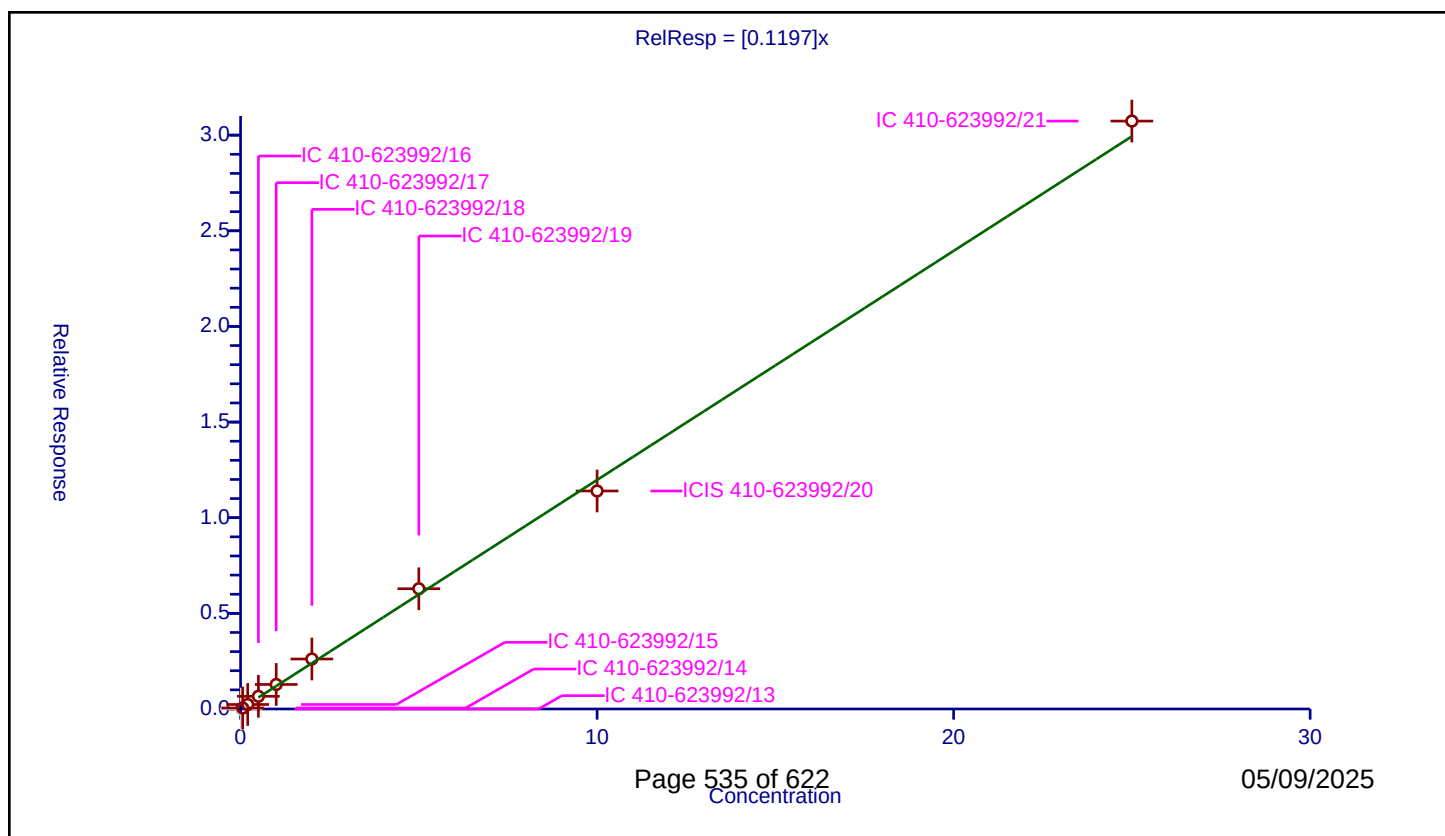
Curve Coefficients

Intercept: 0
Slope: 0.1197

Error Coefficients

Relative Standard Deviation: 12.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.0	10.0	743425.0	0.0	N
2	IC 410-623992/14	0.06	0.005195	10.0	750682.0	0.086588	Y
3	IC 410-623992/15	0.2	0.023451	10.0	765014.0	0.117253	Y
4	IC 410-623992/16	0.5	0.066322	10.0	769122.0	0.132645	Y
5	IC 410-623992/17	1.0	0.128139	10.0	763700.0	0.128139	Y
6	IC 410-623992/18	2.0	0.261291	10.0	758619.0	0.130645	Y
7	IC 410-623992/19	5.0	0.628638	10.0	782167.0	0.125728	Y
8	ICIS 410-623992/20	10.0	1.139809	10.0	791747.0	0.113981	Y
9	IC 410-623992/21	25.0	3.07346	10.0	829879.0	0.122938	Y



Calibration

/ N-Propylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

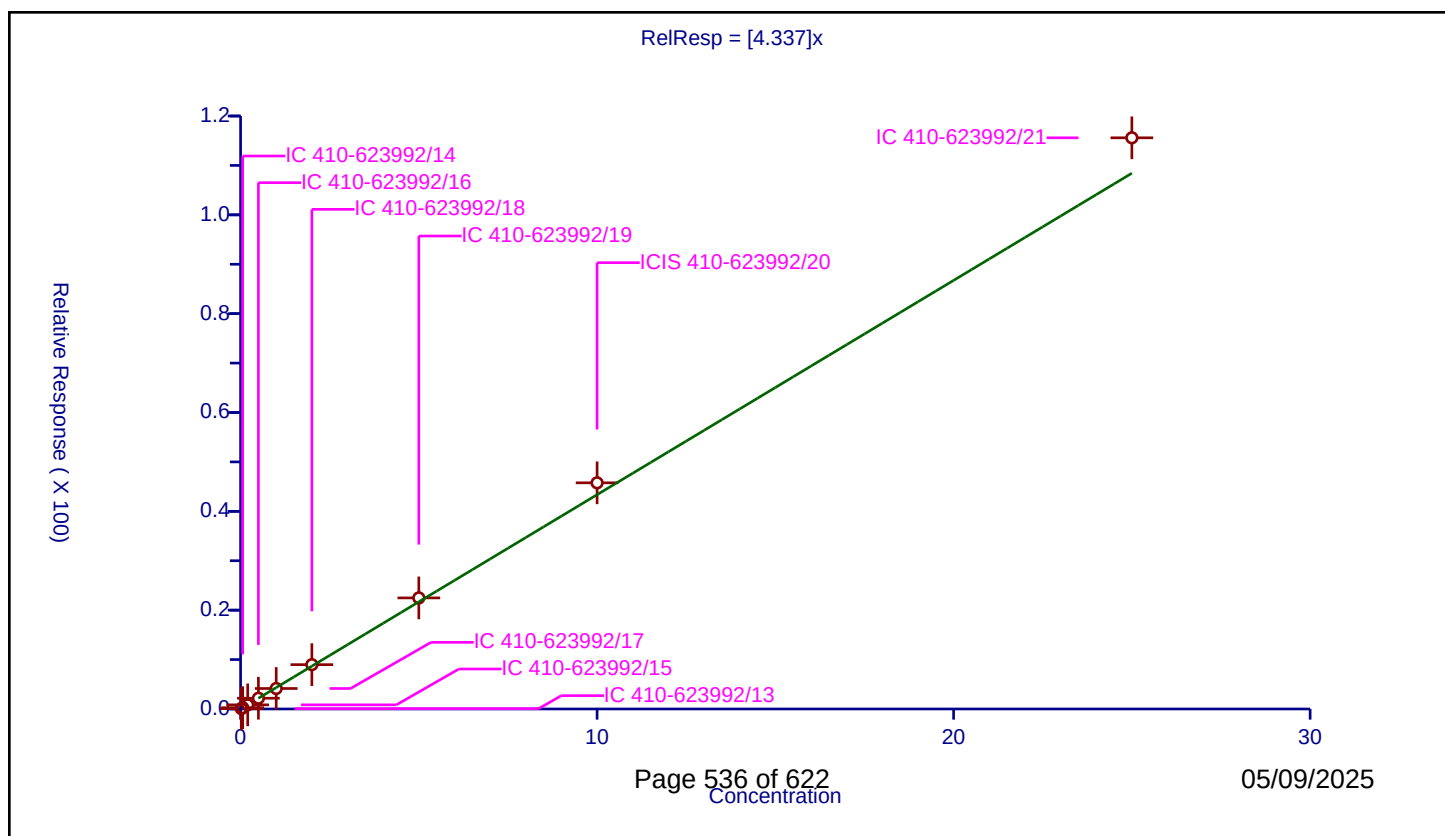
Curve Coefficients

Intercept: 0
Slope: 4.337

Error Coefficients

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.075394	10.0	743425.0	3.769714	Y
2	IC 410-623992/14	0.06	0.262042	10.0	750682.0	4.367362	Y
3	IC 410-623992/15	0.2	0.841004	10.0	765014.0	4.205021	Y
4	IC 410-623992/16	0.5	2.179927	10.0	769122.0	4.359854	Y
5	IC 410-623992/17	1.0	4.147257	10.0	763700.0	4.147257	Y
6	IC 410-623992/18	2.0	8.973305	10.0	758619.0	4.486653	Y
7	IC 410-623992/19	5.0	22.476952	10.0	782167.0	4.49539	Y
8	ICIS 410-623992/20	10.0	45.769772	10.0	791747.0	4.576977	Y
9	IC 410-623992/21	25.0	115.59114	10.0	829879.0	4.623646	Y



Calibration

/ 2-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

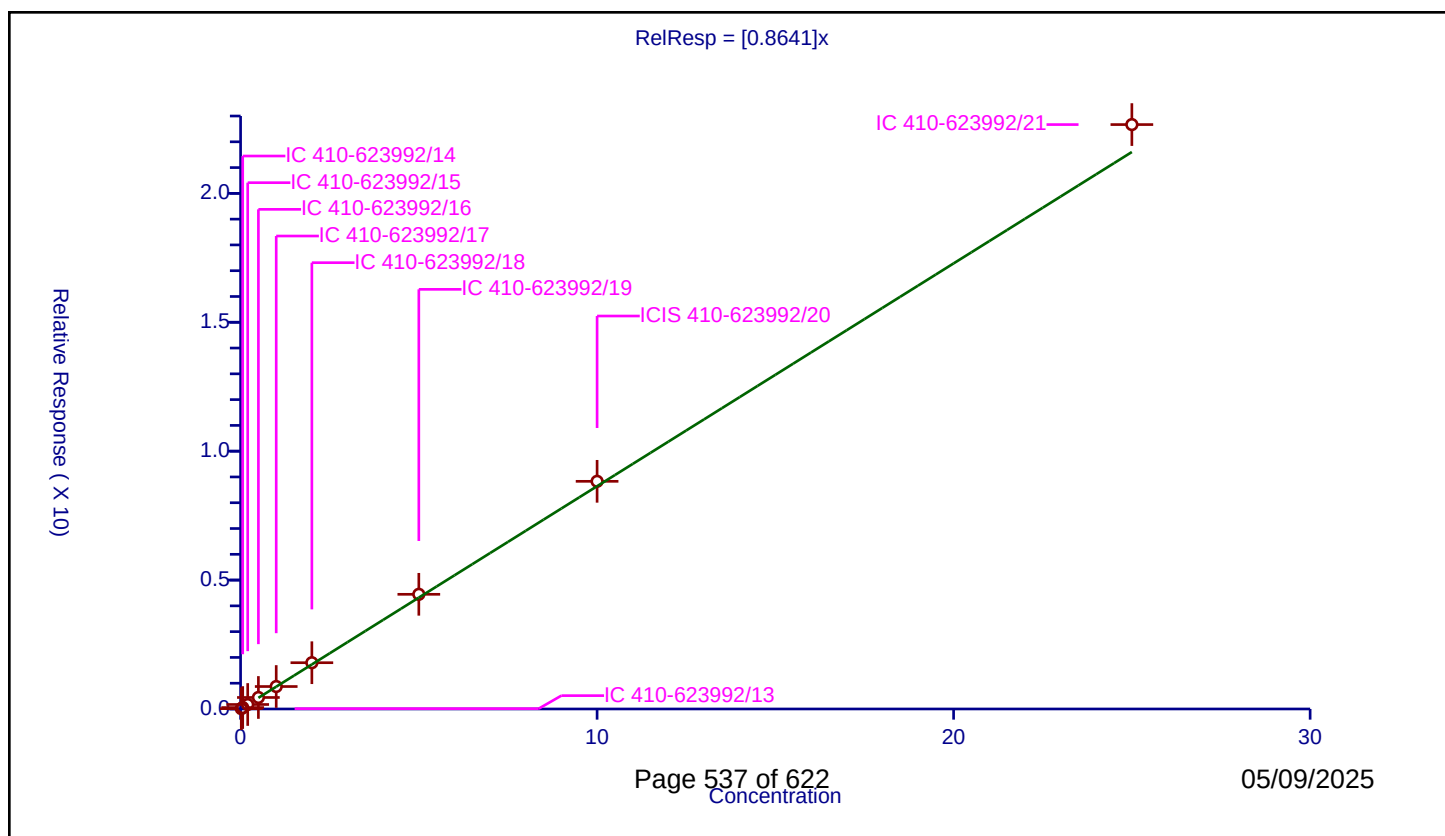
Curve Coefficients

Intercept: 0
Slope: 0.8641

Error Coefficients

Relative Standard Deviation: 10.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.012765	10.0	743425.0	0.638262	Y
2	IC 410-623992/14	0.06	0.055696	10.0	750682.0	0.928267	Y
3	IC 410-623992/15	0.2	0.173762	10.0	765014.0	0.868808	Y
4	IC 410-623992/16	0.5	0.446626	10.0	769122.0	0.893252	Y
5	IC 410-623992/17	1.0	0.871717	10.0	763700.0	0.871717	Y
6	IC 410-623992/18	2.0	1.795275	10.0	758619.0	0.897638	Y
7	IC 410-623992/19	5.0	4.448117	10.0	782167.0	0.889623	Y
8	ICIS 410-623992/20	10.0	8.830397	10.0	791747.0	0.88304	Y
9	IC 410-623992/21	25.0	22.667533	10.0	829879.0	0.906701	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

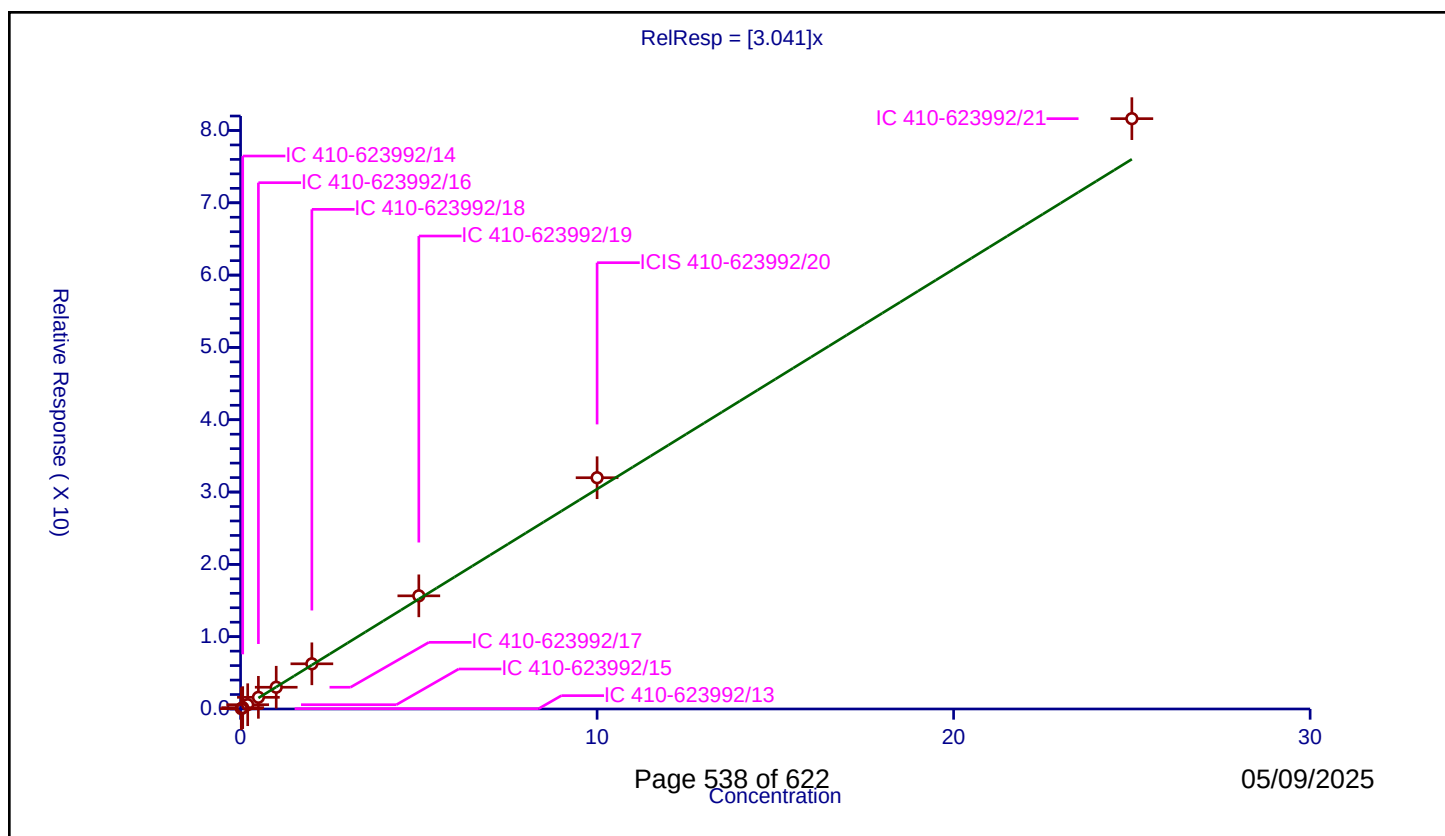
Curve Coefficients

Intercept: 0
Slope: 3.041

Error Coefficients

Relative Standard Deviation: 9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.046958	10.0	743425.0	2.347917	Y
2	IC 410-623992/14	0.06	0.18695	10.0	750682.0	3.115833	Y
3	IC 410-623992/15	0.2	0.59059	10.0	765014.0	2.952952	Y
4	IC 410-623992/16	0.5	1.613736	10.0	769122.0	3.227472	Y
5	IC 410-623992/17	1.0	3.007686	10.0	763700.0	3.007686	Y
6	IC 410-623992/18	2.0	6.247392	10.0	758619.0	3.123696	Y
7	IC 410-623992/19	5.0	15.649433	10.0	782167.0	3.129887	Y
8	ICIS 410-623992/20	10.0	31.980544	10.0	791747.0	3.198054	Y
9	IC 410-623992/21	25.0	81.635467	10.0	829879.0	3.265419	Y



Calibration

/ 4-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

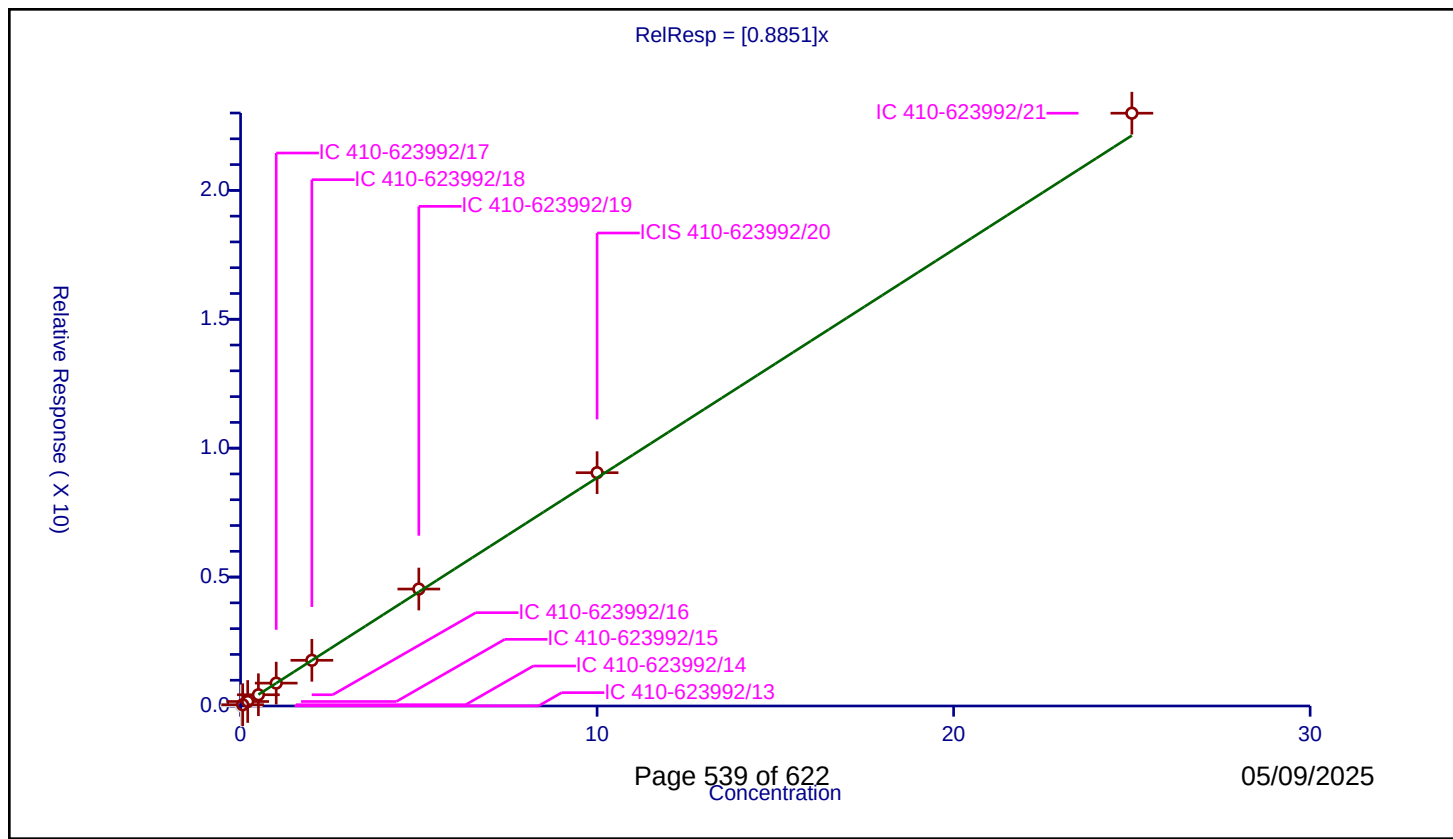
Curve Coefficients

Intercept: 0
Slope: 0.8851

Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.005999	10.0	743425.0	0.299963	N
2	IC 410-623992/14	0.06	0.050021	10.0	750682.0	0.833686	Y
3	IC 410-623992/15	0.2	0.174297	10.0	765014.0	0.871487	Y
4	IC 410-623992/16	0.5	0.435549	10.0	769122.0	0.871097	Y
5	IC 410-623992/17	1.0	0.886474	10.0	763700.0	0.886474	Y
6	IC 410-623992/18	2.0	1.772088	10.0	758619.0	0.886044	Y
7	IC 410-623992/19	5.0	4.53632	10.0	782167.0	0.907264	Y
8	ICIS 410-623992/20	10.0	9.048446	10.0	791747.0	0.904845	Y
9	IC 410-623992/21	25.0	22.993123	10.0	829879.0	0.919725	Y



Calibration

/ tert-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

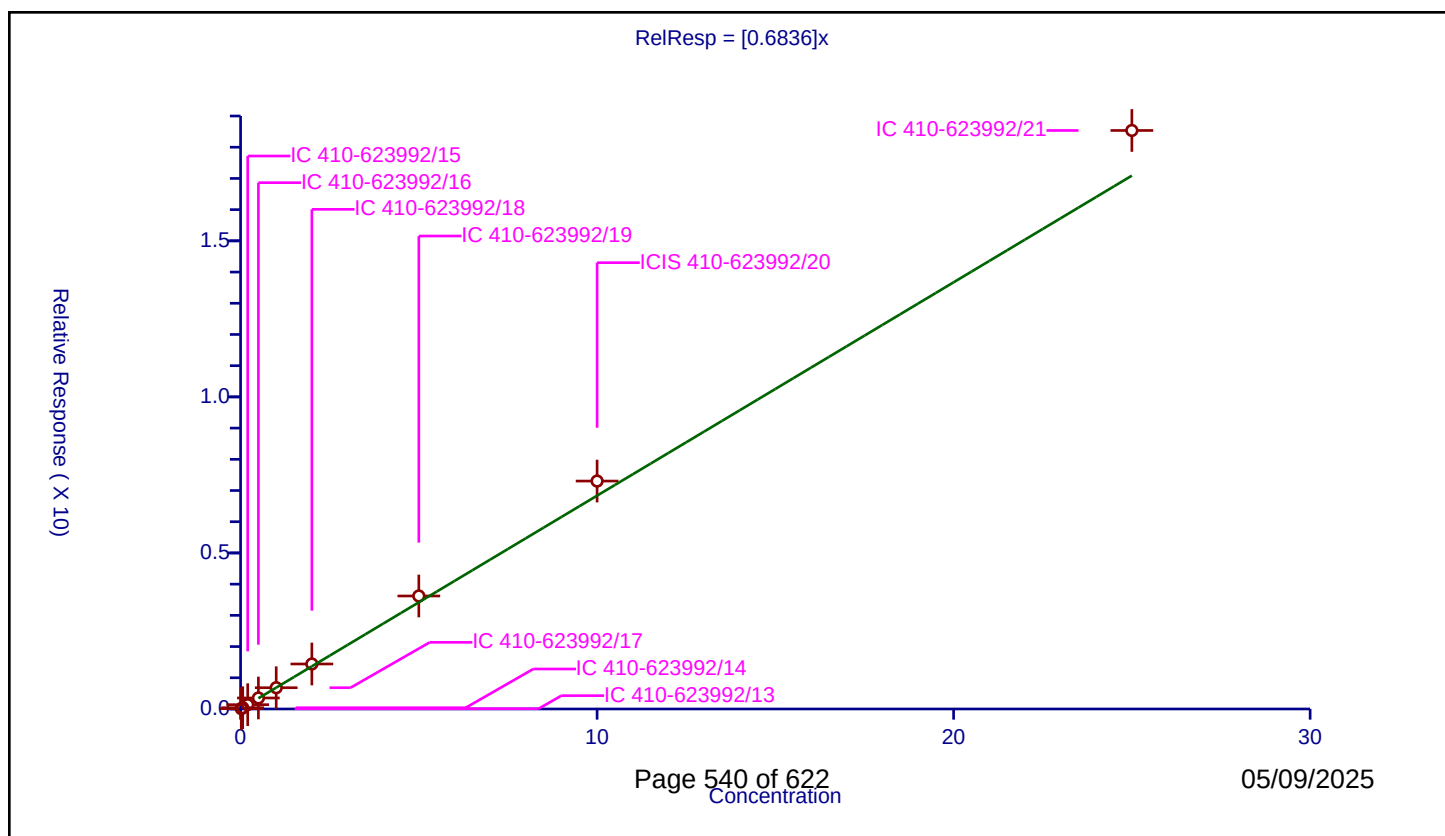
Curve Coefficients

Intercept: 0
Slope: 0.6836

Error Coefficients

Relative Standard Deviation: 11.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.009712	10.0	743425.0	0.48559	Y
2	IC 410-623992/14	0.06	0.040297	10.0	750682.0	0.671612	Y
3	IC 410-623992/15	0.2	0.13839	10.0	765014.0	0.691948	Y
4	IC 410-623992/16	0.5	0.352337	10.0	769122.0	0.704674	Y
5	IC 410-623992/17	1.0	0.681446	10.0	763700.0	0.681446	Y
6	IC 410-623992/18	2.0	1.442002	10.0	758619.0	0.721001	Y
7	IC 410-623992/19	5.0	3.620928	10.0	782167.0	0.724186	Y
8	ICIS 410-623992/20	10.0	7.303507	10.0	791747.0	0.730351	Y
9	IC 410-623992/21	25.0	18.536811	10.0	829879.0	0.741472	Y



Calibration

/ Pentachloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

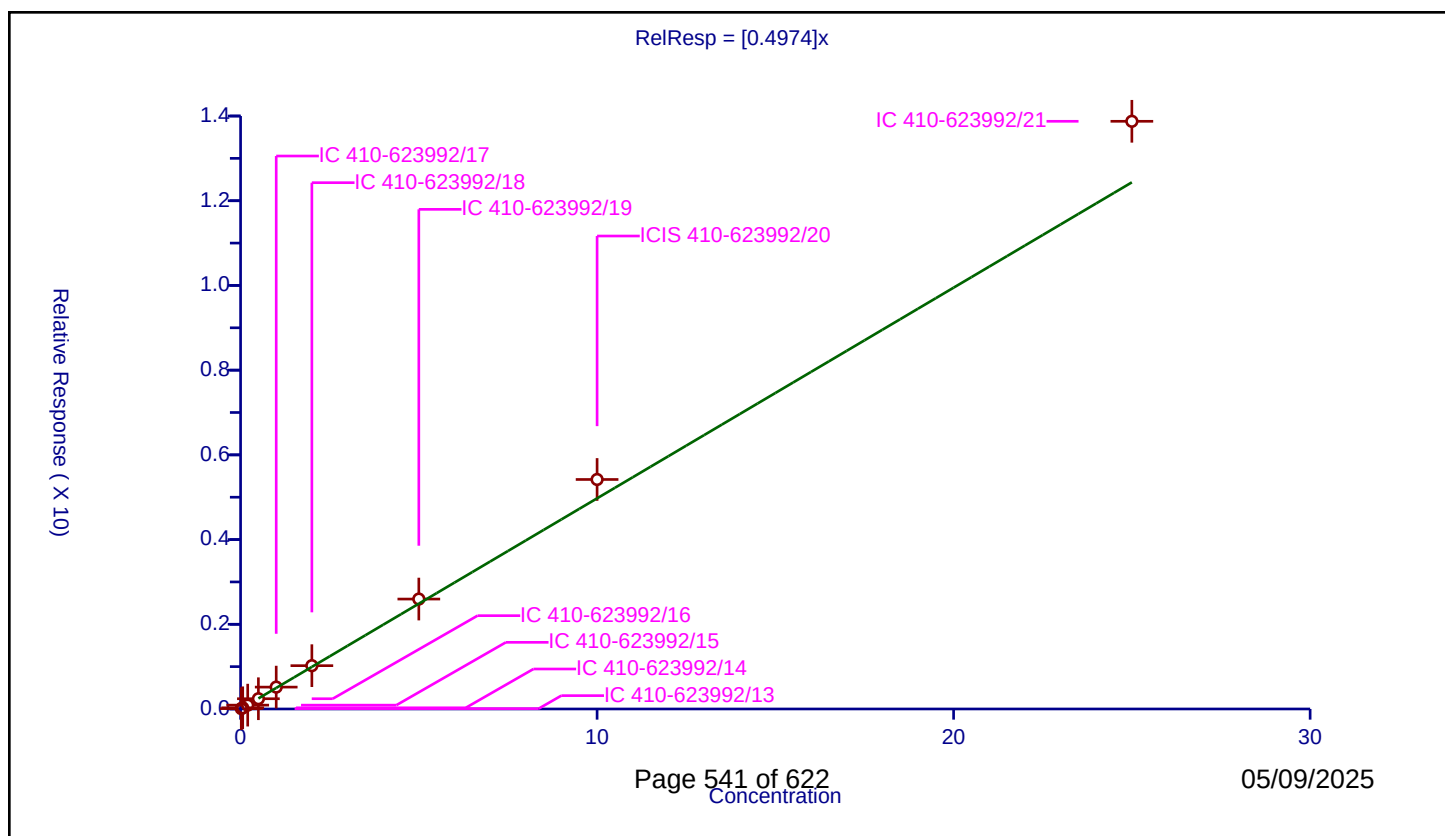
Curve Coefficients

Intercept: 0
Slope: 0.4974

Error Coefficients

Relative Standard Deviation: 8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.008595	10.0	743425.0	0.429768	Y
2	IC 410-623992/14	0.06	0.027748	10.0	750682.0	0.462468	Y
3	IC 410-623992/15	0.2	0.091188	10.0	765014.0	0.455939	Y
4	IC 410-623992/16	0.5	0.24212	10.0	769122.0	0.48424	Y
5	IC 410-623992/17	1.0	0.516747	10.0	763700.0	0.516747	Y
6	IC 410-623992/18	2.0	1.022582	10.0	758619.0	0.511291	Y
7	IC 410-623992/19	5.0	2.5952	10.0	782167.0	0.51904	Y
8	ICIS 410-623992/20	10.0	5.418574	10.0	791747.0	0.541857	Y
9	IC 410-623992/21	25.0	13.875107	10.0	829879.0	0.555004	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

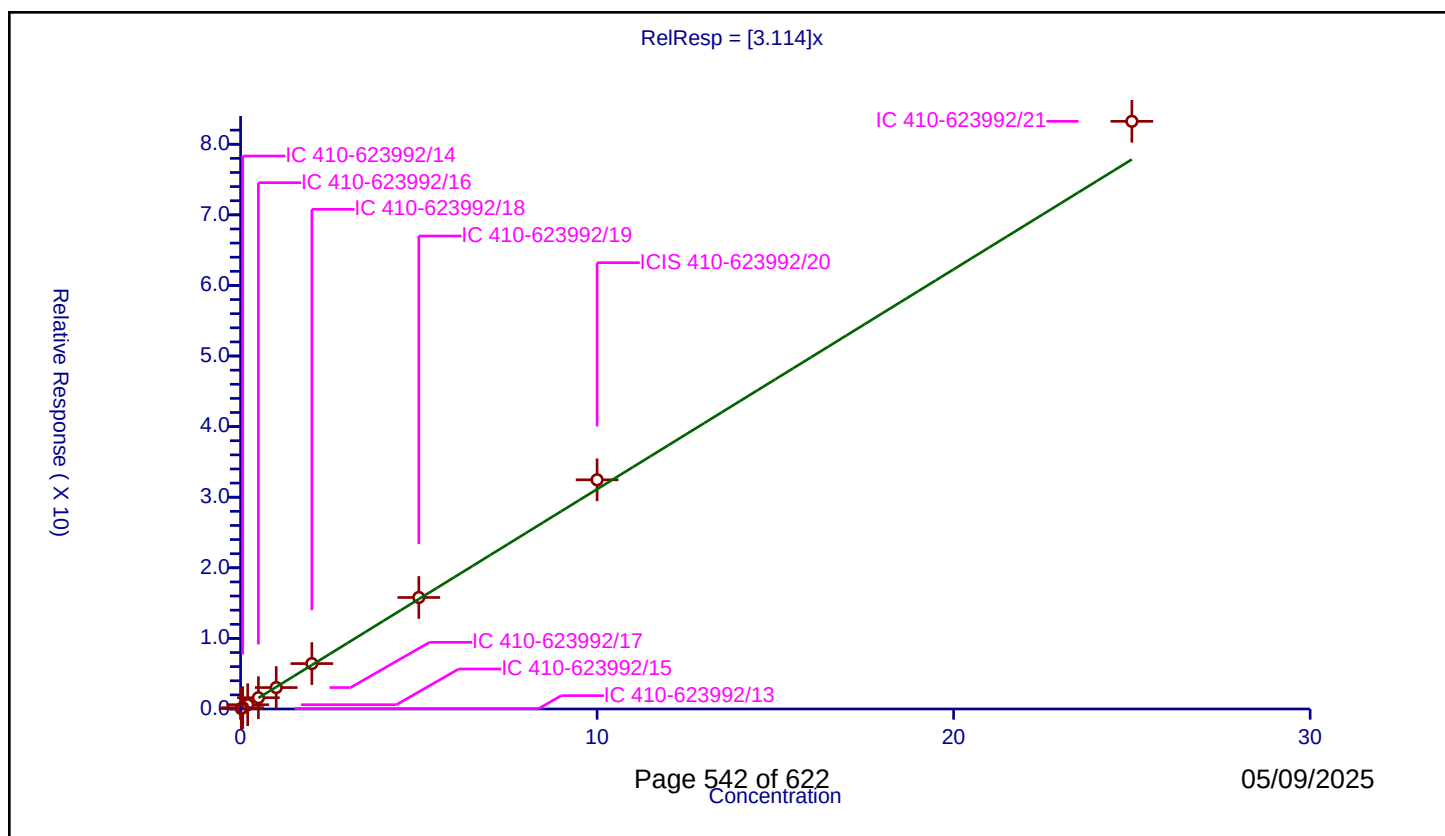
Curve Coefficients

Intercept: 0
Slope: 3.114

Error Coefficients

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.053482	10.0	743425.0	2.67411	Y
2	IC 410-623992/14	0.06	0.188522	10.0	750682.0	3.142032	Y
3	IC 410-623992/15	0.2	0.605322	10.0	765014.0	3.026611	Y
4	IC 410-623992/16	0.5	1.597692	10.0	769122.0	3.195384	Y
5	IC 410-623992/17	1.0	3.03483	10.0	763700.0	3.03483	Y
6	IC 410-623992/18	2.0	6.432333	10.0	758619.0	3.216166	Y
7	IC 410-623992/19	5.0	15.795259	10.0	782167.0	3.159052	Y
8	ICIS 410-623992/20	10.0	32.464651	10.0	791747.0	3.246465	Y
9	IC 410-623992/21	25.0	83.24951	10.0	829879.0	3.32998	Y



Calibration

/ sec-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

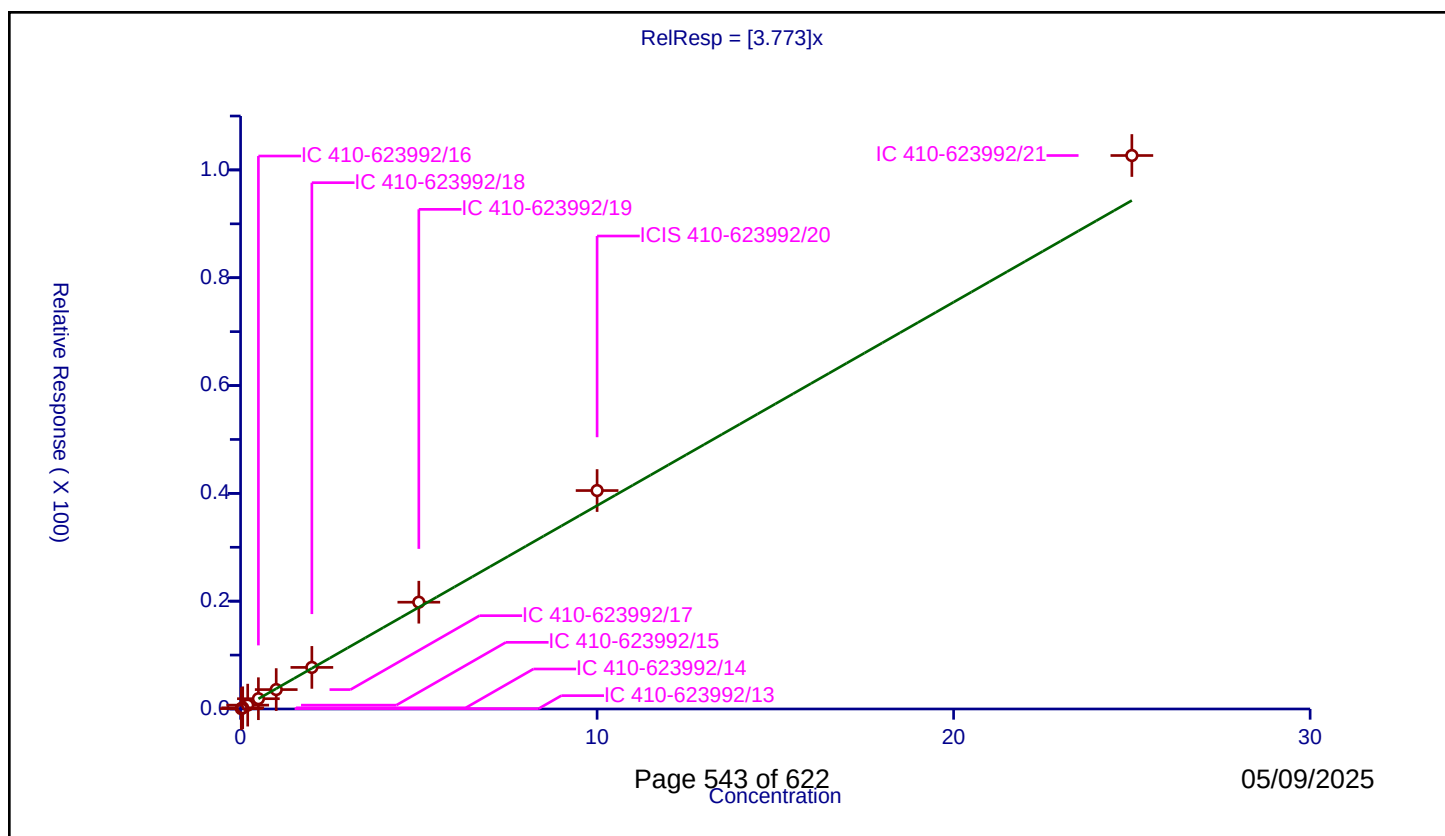
Curve Coefficients

Intercept: 0
Slope: 3.773

Error Coefficients

Relative Standard Deviation: 6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.065736	10.0	743425.0	3.286814	Y
2	IC 410-623992/14	0.06	0.222518	10.0	750682.0	3.708628	Y
3	IC 410-623992/15	0.2	0.71498	10.0	765014.0	3.574902	Y
4	IC 410-623992/16	0.5	1.9075	10.0	769122.0	3.814999	Y
5	IC 410-623992/17	1.0	3.596478	10.0	763700.0	3.596478	Y
6	IC 410-623992/18	2.0	7.713503	10.0	758619.0	3.856752	Y
7	IC 410-623992/19	5.0	19.809312	10.0	782167.0	3.961862	Y
8	ICIS 410-623992/20	10.0	40.520924	10.0	791747.0	4.052092	Y
9	IC 410-623992/21	25.0	102.673558	10.0	829879.0	4.106942	Y



Calibration

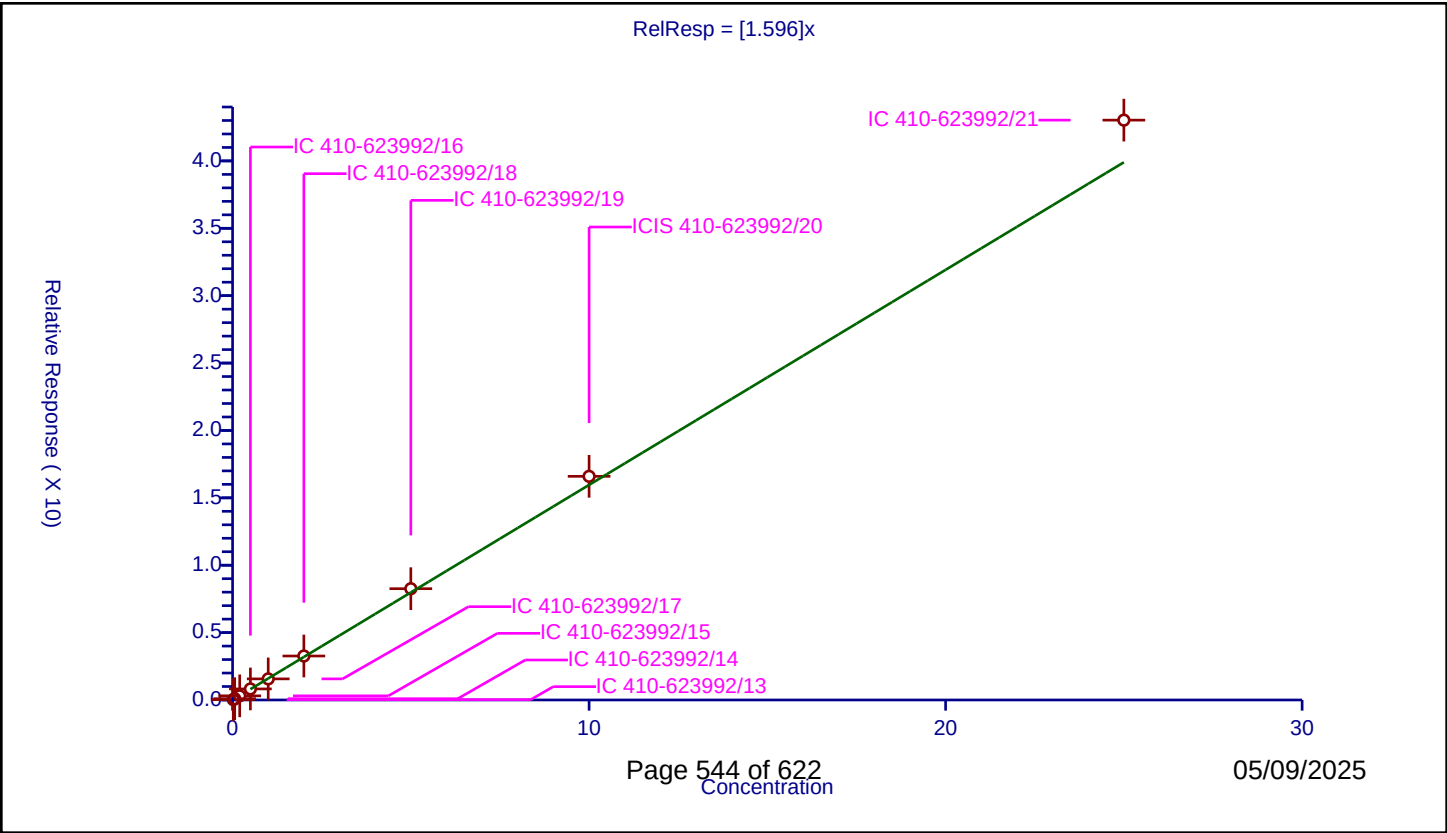
/ 1,3-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.596
Error Coefficients	

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.027198	10.0	743425.0	1.359922	Y
2	IC 410-623992/14	0.06	0.095686	10.0	750682.0	1.594772	Y
3	IC 410-623992/15	0.2	0.30772	10.0	765014.0	1.538599	Y
4	IC 410-623992/16	0.5	0.820533	10.0	769122.0	1.641066	Y
5	IC 410-623992/17	1.0	1.565222	10.0	763700.0	1.565222	Y
6	IC 410-623992/18	2.0	3.263232	10.0	758619.0	1.631616	Y
7	IC 410-623992/19	5.0	8.257751	10.0	782167.0	1.65155	Y
8	ICIS 410-623992/20	10.0	16.595604	10.0	791747.0	1.65956	Y
9	IC 410-623992/21	25.0	43.026417	10.0	829879.0	1.721057	Y



Calibration

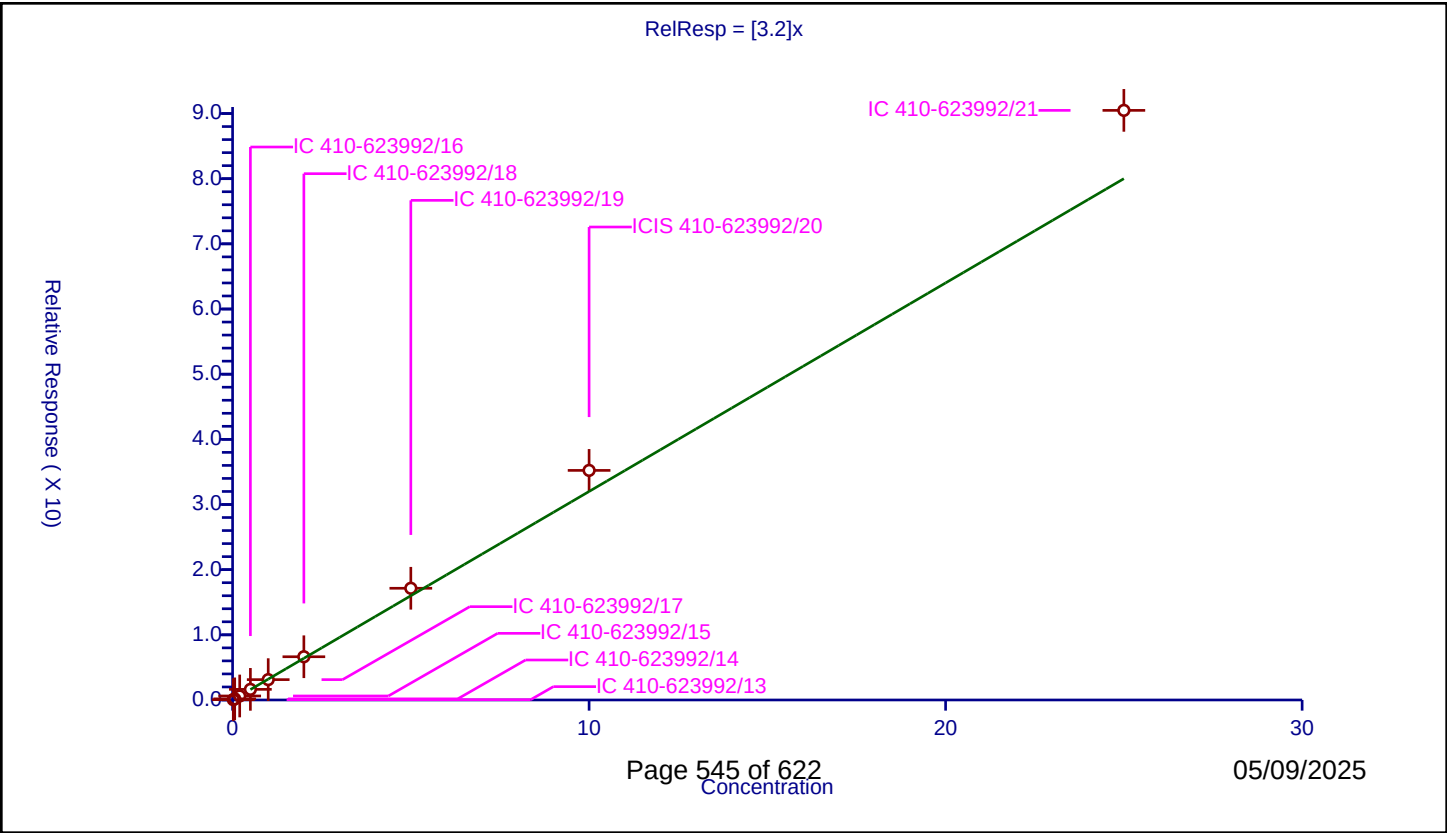
/ 4-Isopropyltoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.2
Error Coefficients	

Relative Standard Deviation: 10.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.05172	10.0	743425.0	2.586004	Y
2	IC 410-623992/14	0.06	0.171884	10.0	750682.0	2.864728	Y
3	IC 410-623992/15	0.2	0.614316	10.0	765014.0	3.071578	Y
4	IC 410-623992/16	0.5	1.63216	10.0	769122.0	3.26432	Y
5	IC 410-623992/17	1.0	3.124185	10.0	763700.0	3.124185	Y
6	IC 410-623992/18	2.0	6.636849	10.0	758619.0	3.318425	Y
7	IC 410-623992/19	5.0	17.142976	10.0	782167.0	3.428595	Y
8	ICIS 410-623992/20	10.0	35.234399	10.0	791747.0	3.52344	Y
9	IC 410-623992/21	25.0	90.48401	10.0	829879.0	3.61936	Y



Calibration

/ 1,4-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

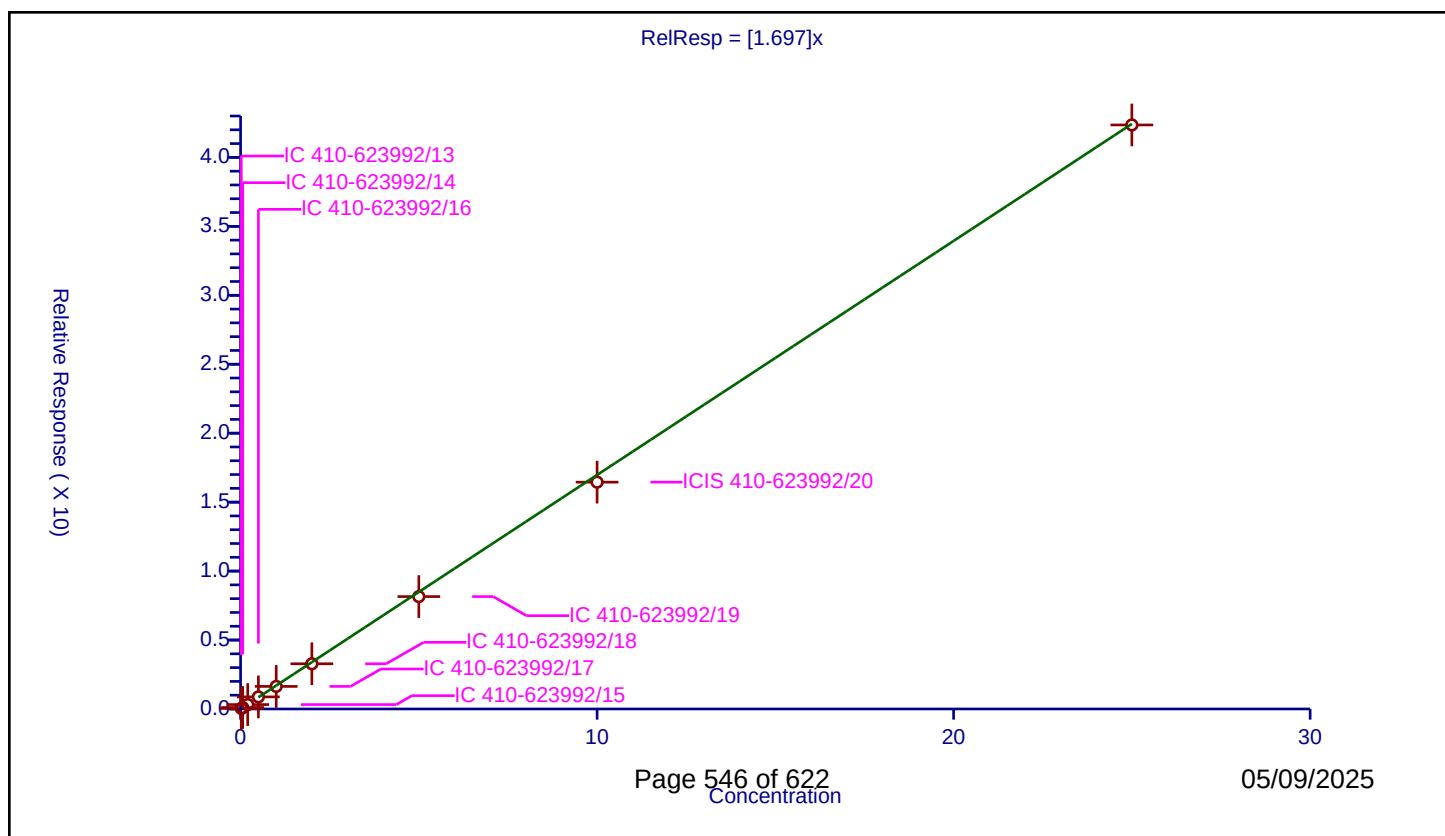
Curve Coefficients

Intercept: 0
Slope: 1.697

Error Coefficients

Relative Standard Deviation: 5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.036897	10.0	743425.0	1.84484	Y
2	IC 410-623992/14	0.06	0.110007	10.0	750682.0	1.833444	Y
3	IC 410-623992/15	0.2	0.31938	10.0	765014.0	1.596899	Y
4	IC 410-623992/16	0.5	0.876857	10.0	769122.0	1.753714	Y
5	IC 410-623992/17	1.0	1.636808	10.0	763700.0	1.636808	Y
6	IC 410-623992/18	2.0	3.278009	10.0	758619.0	1.639005	Y
7	IC 410-623992/19	5.0	8.151264	10.0	782167.0	1.630253	Y
8	ICIS 410-623992/20	10.0	16.450432	10.0	791747.0	1.645043	Y
9	IC 410-623992/21	25.0	42.352343	10.0	829879.0	1.694094	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

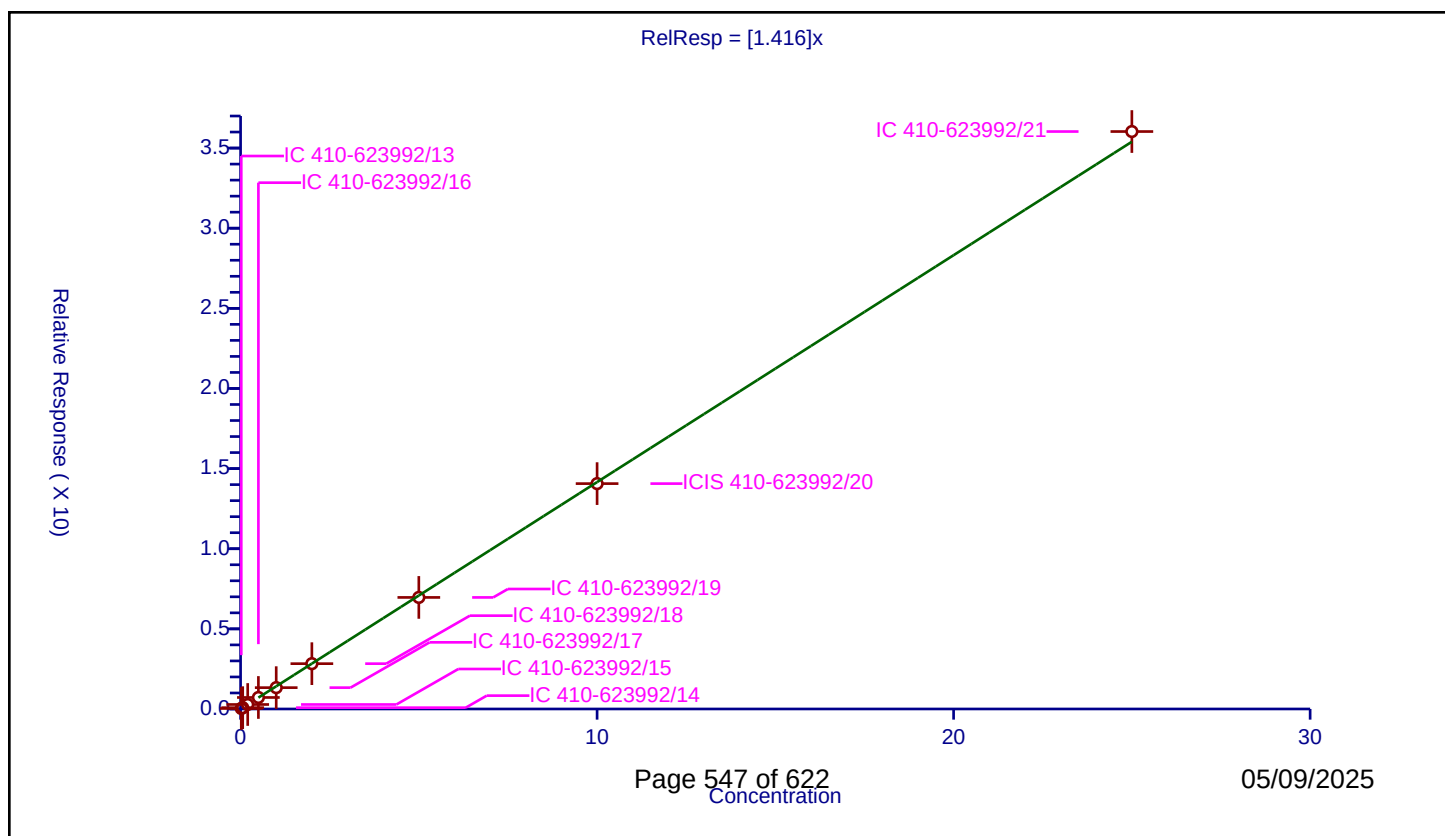
Curve Coefficients

Intercept: 0
Slope: 1.416

Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.031261	10.0	743425.0	1.563036	Y
2	IC 410-623992/14	0.06	0.081526	10.0	750682.0	1.358764	Y
3	IC 410-623992/15	0.2	0.279655	10.0	765014.0	1.398275	Y
4	IC 410-623992/16	0.5	0.718716	10.0	769122.0	1.437431	Y
5	IC 410-623992/17	1.0	1.331151	10.0	763700.0	1.331151	Y
6	IC 410-623992/18	2.0	2.827467	10.0	758619.0	1.413733	Y
7	IC 410-623992/19	5.0	6.961442	10.0	782167.0	1.392288	Y
8	ICIS 410-623992/20	10.0	14.062144	10.0	791747.0	1.406214	Y
9	IC 410-623992/21	25.0	36.031	10.0	829879.0	1.44124	Y



Calibration

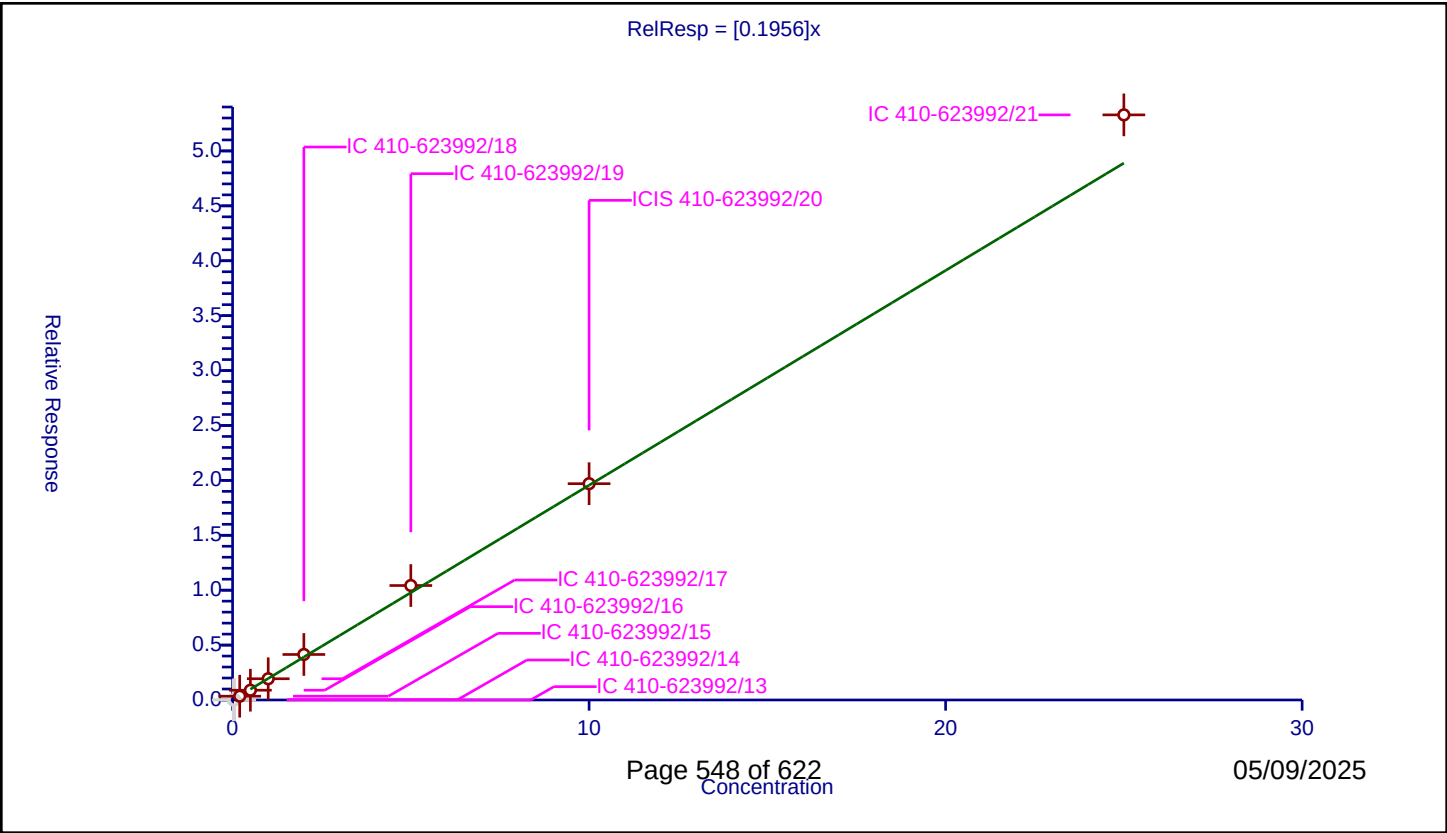
/ Benzyl chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1956
Error Coefficients	

Relative Standard Deviation: 8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.0	10.0	743425.0	0.0	N
2	IC 410-623992/14	0.06	0.003024	10.0	750682.0	0.050399	N
3	IC 410-623992/15	0.2	0.034326	10.0	765014.0	0.171631	Y
4	IC 410-623992/16	0.5	0.089076	10.0	769122.0	0.178151	Y
5	IC 410-623992/17	1.0	0.193427	10.0	763700.0	0.193427	Y
6	IC 410-623992/18	2.0	0.414305	10.0	758619.0	0.207153	Y
7	IC 410-623992/19	5.0	1.042476	10.0	782167.0	0.208495	Y
8	ICIS 410-623992/20	10.0	1.969796	10.0	791747.0	0.19698	Y
9	IC 410-623992/21	25.0	5.328247	10.0	829879.0	0.21313	Y



Calibration

/ n-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

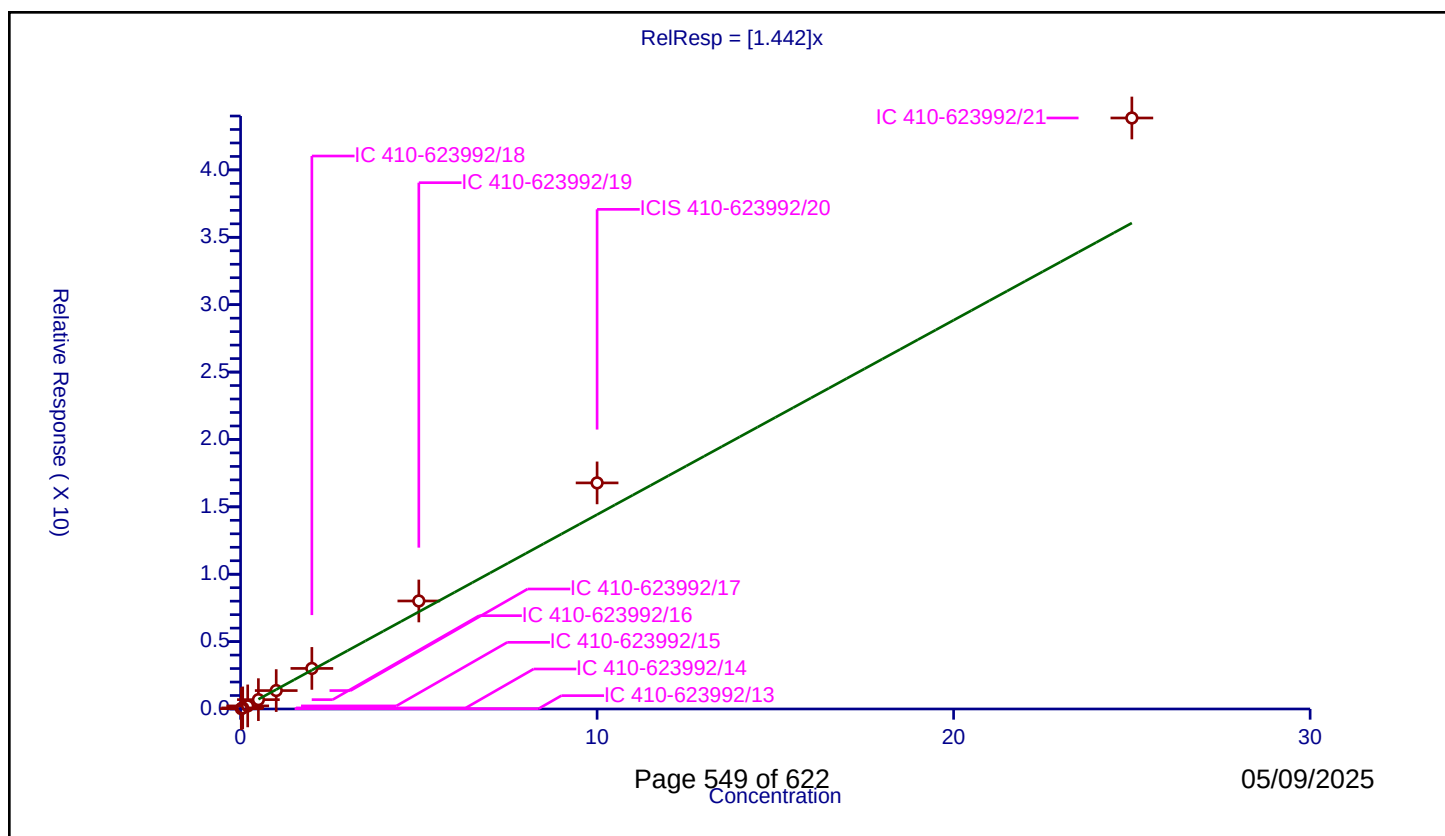
Curve Coefficients

Intercept: 0
 Slope: 1.442

Error Coefficients

Relative Standard Deviation: 14.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.024347	10.0	743425.0	1.217339	Y
2	IC 410-623992/14	0.06	0.079821	10.0	750682.0	1.330346	Y
3	IC 410-623992/15	0.2	0.228205	10.0	765014.0	1.141025	Y
4	IC 410-623992/16	0.5	0.693128	10.0	769122.0	1.386256	Y
5	IC 410-623992/17	1.0	1.366819	10.0	763700.0	1.366819	Y
6	IC 410-623992/18	2.0	3.010339	10.0	758619.0	1.505169	Y
7	IC 410-623992/19	5.0	8.013979	10.0	782167.0	1.602796	Y
8	ICIS 410-623992/20	10.0	16.777253	10.0	791747.0	1.677725	Y
9	IC 410-623992/21	25.0	43.853863	10.0	829879.0	1.754155	Y



Calibration

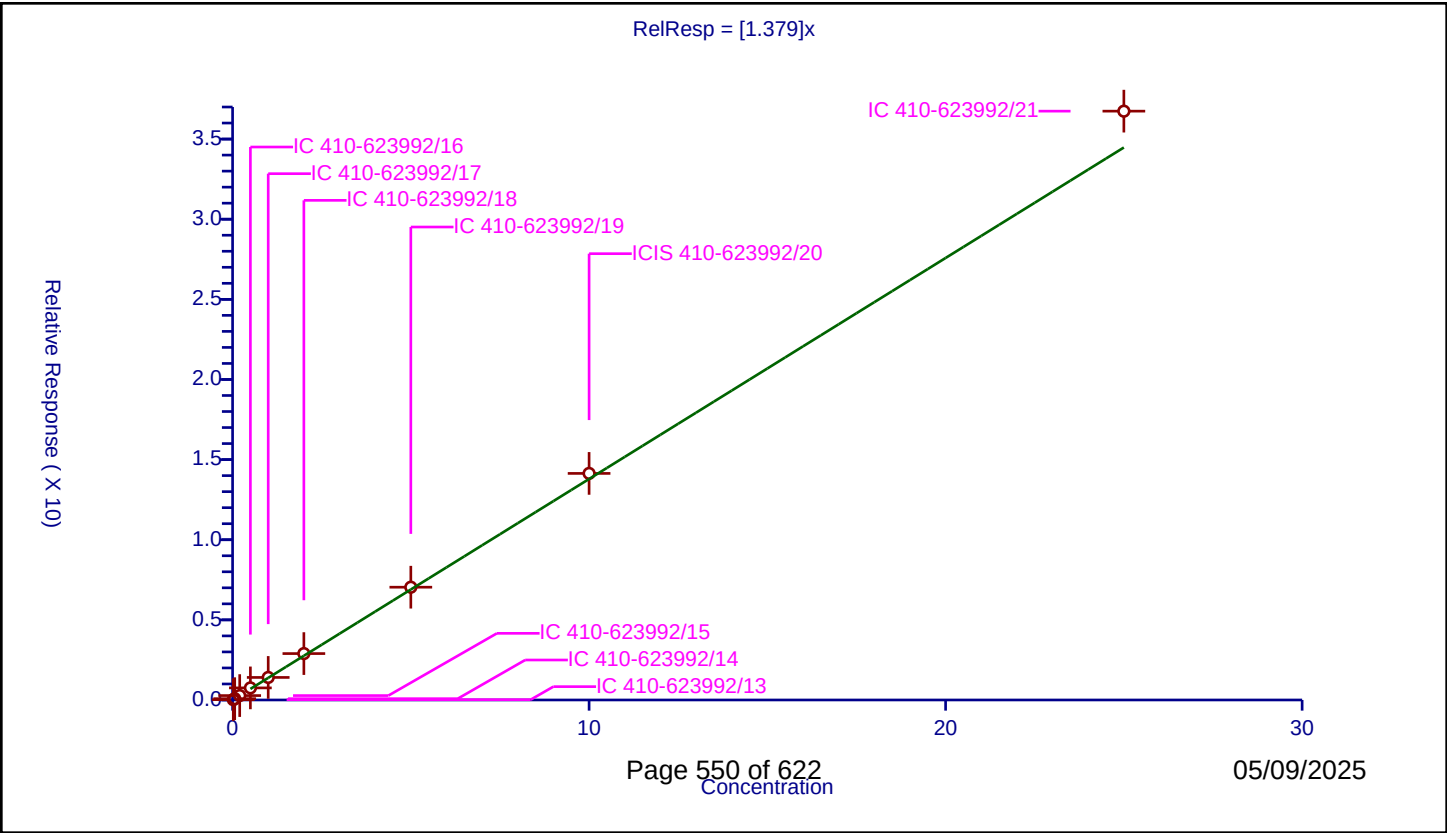
/ 1,2-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.379
Error Coefficients	

Relative Standard Deviation: 10.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.020244	10.0	743425.0	1.012207	Y
2	IC 410-623992/14	0.06	0.081846	10.0	750682.0	1.364093	Y
3	IC 410-623992/15	0.2	0.275616	10.0	765014.0	1.378079	Y
4	IC 410-623992/16	0.5	0.755277	10.0	769122.0	1.510554	Y
5	IC 410-623992/17	1.0	1.406809	10.0	763700.0	1.406809	Y
6	IC 410-623992/18	2.0	2.896579	10.0	758619.0	1.44829	Y
7	IC 410-623992/19	5.0	7.037116	10.0	782167.0	1.407423	Y
8	ICIS 410-623992/20	10.0	14.137938	10.0	791747.0	1.413794	Y
9	IC 410-623992/21	25.0	36.741248	10.0	829879.0	1.46965	Y



Calibration

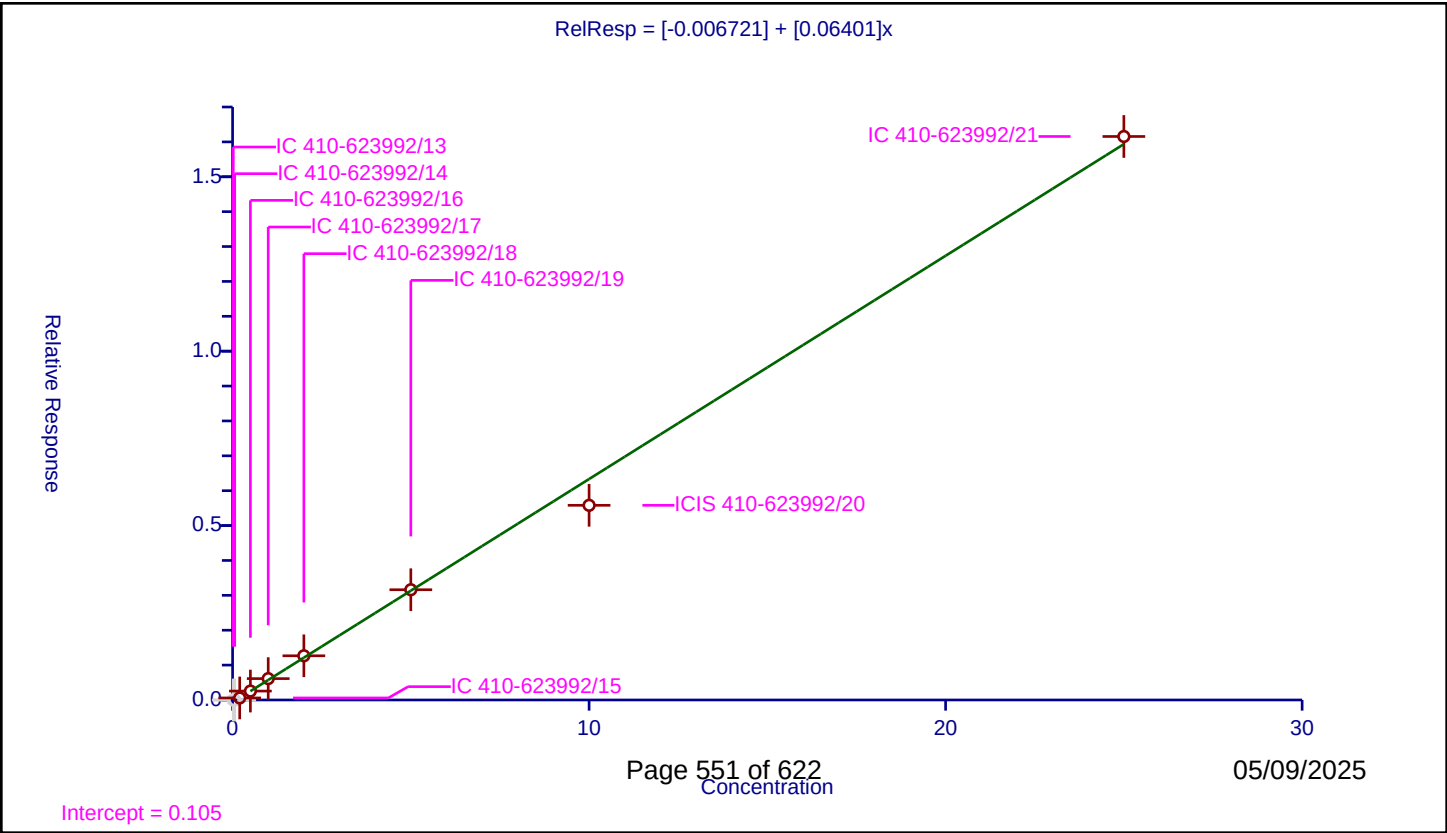
/ 1,2-Dibromo-3-Chloropropane

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	-0.006721
Slope:	0.06401
Error Coefficients	

Relative Standard Deviation: 6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.0	10.0	743425.0	0.0	N
2	IC 410-623992/14	0.06	0.0	10.0	750682.0	0.0	N
3	IC 410-623992/15	0.2	0.005843	10.0	765014.0	0.029215	Y
4	IC 410-623992/16	0.5	0.025601	10.0	769122.0	0.051201	Y
5	IC 410-623992/17	1.0	0.061254	10.0	763700.0	0.061254	Y
6	IC 410-623992/18	2.0	0.12673	10.0	758619.0	0.063365	Y
7	IC 410-623992/19	5.0	0.316058	10.0	782167.0	0.063212	Y
8	ICIS 410-623992/20	10.0	0.558095	10.0	791747.0	0.055809	Y
9	IC 410-623992/21	25.0	1.615489	10.0	829879.0	0.06462	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

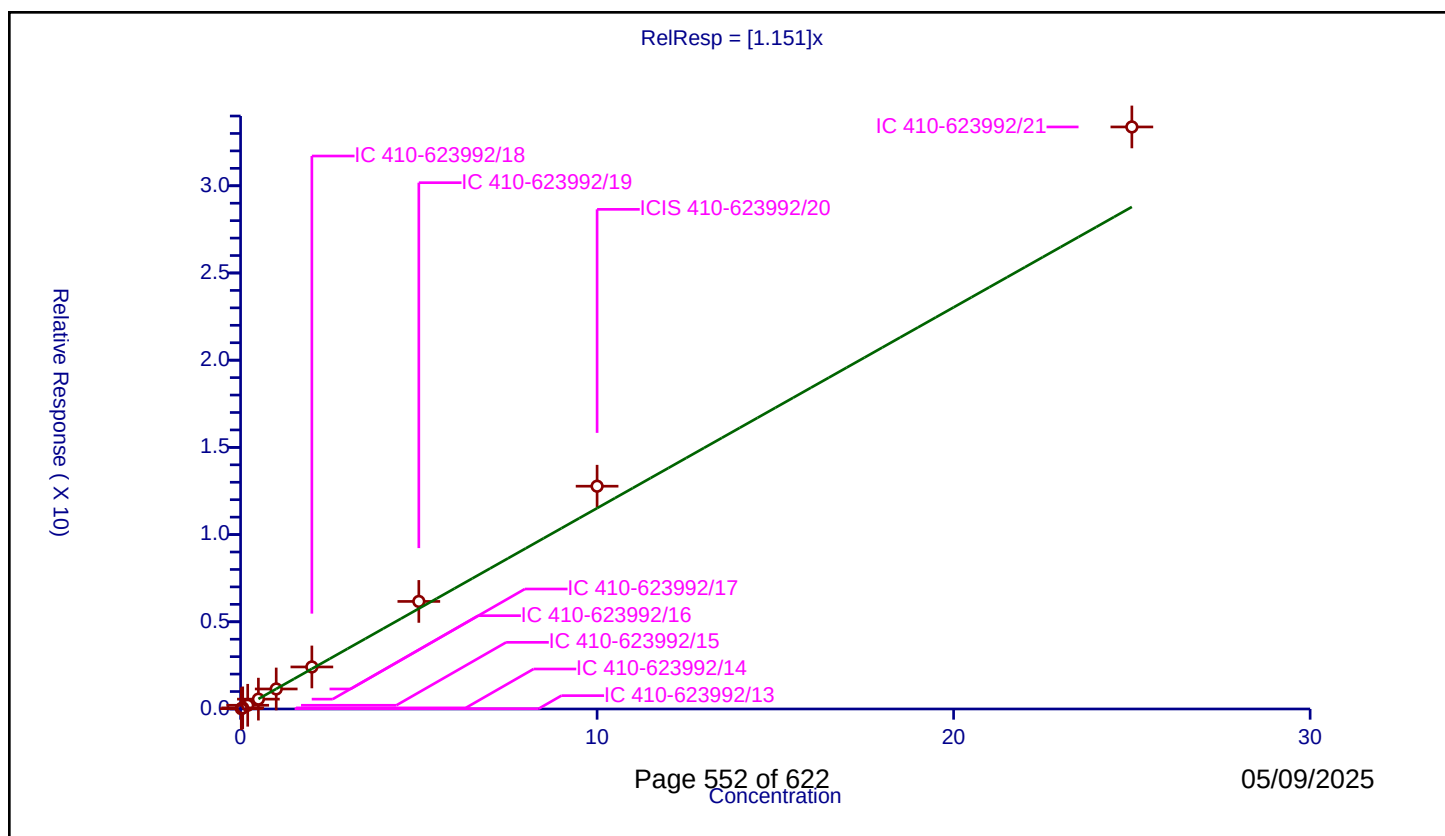
Curve Coefficients

Intercept: 0
Slope: 1.151

Error Coefficients

Relative Standard Deviation: 11.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.018226	10.0	743425.0	0.911323	Y
2	IC 410-623992/14	0.06	0.063489	10.0	750682.0	1.058149	Y
3	IC 410-623992/15	0.2	0.212911	10.0	765014.0	1.064556	Y
4	IC 410-623992/16	0.5	0.565528	10.0	769122.0	1.131056	Y
5	IC 410-623992/17	1.0	1.147073	10.0	763700.0	1.147073	Y
6	IC 410-623992/18	2.0	2.410617	10.0	758619.0	1.205309	Y
7	IC 410-623992/19	5.0	6.167123	10.0	782167.0	1.233425	Y
8	ICIS 410-623992/20	10.0	12.774548	10.0	791747.0	1.277455	Y
9	IC 410-623992/21	25.0	33.373504	10.0	829879.0	1.33494	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

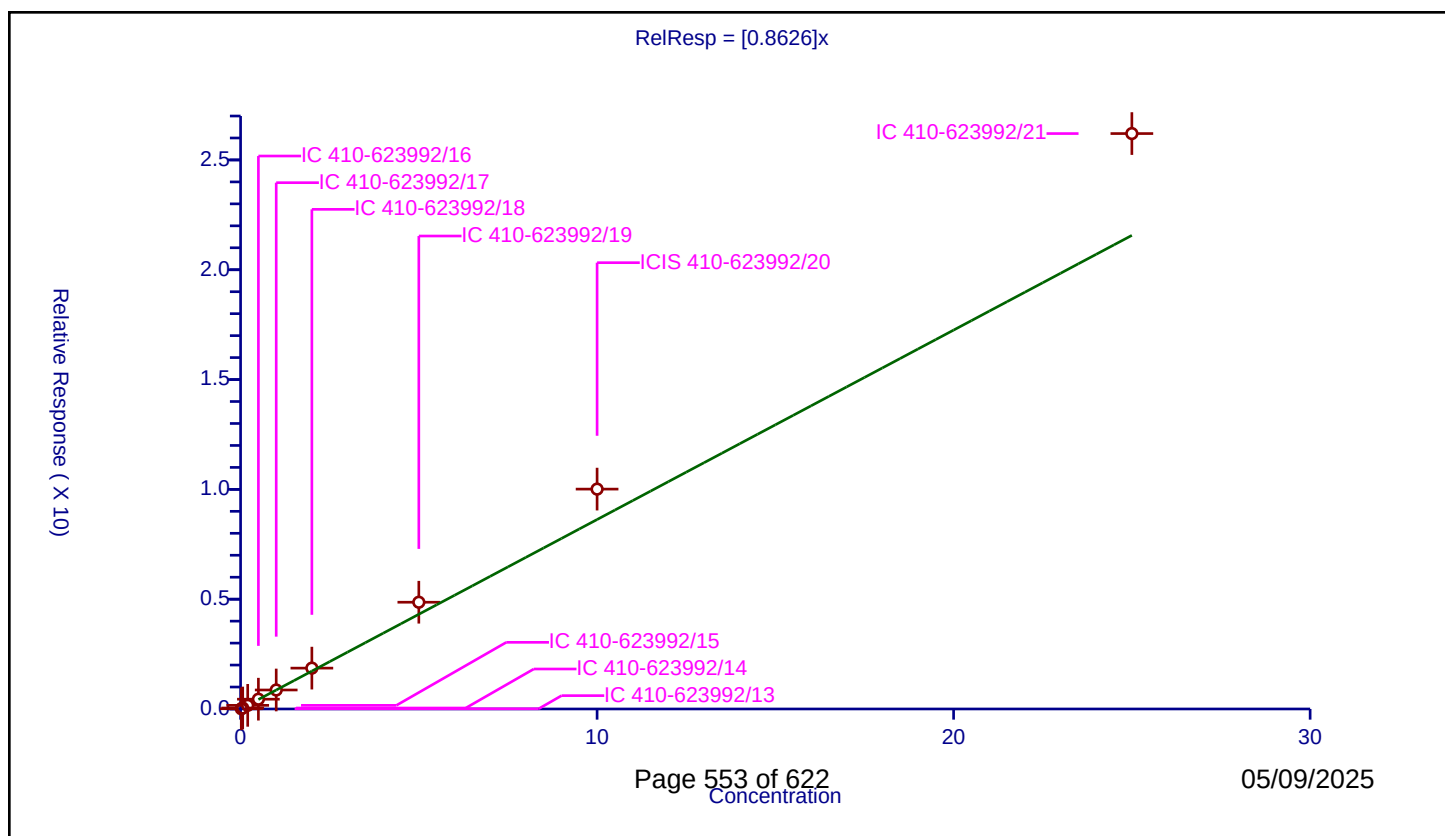
Curve Coefficients

Intercept: 0
Slope: 0.8626

Error Coefficients

Relative Standard Deviation: 19.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.009954	10.0	743425.0	0.497696	Y
2	IC 410-623992/14	0.06	0.04384	10.0	750682.0	0.730669	Y
3	IC 410-623992/15	0.2	0.16516	10.0	765014.0	0.825802	Y
4	IC 410-623992/16	0.5	0.446457	10.0	769122.0	0.892914	Y
5	IC 410-623992/17	1.0	0.864515	10.0	763700.0	0.864515	Y
6	IC 410-623992/18	2.0	1.861211	10.0	758619.0	0.930605	Y
7	IC 410-623992/19	5.0	4.860548	10.0	782167.0	0.97211	Y
8	ICIS 410-623992/20	10.0	10.011898	10.0	791747.0	1.00119	Y
9	IC 410-623992/21	25.0	26.201157	10.0	829879.0	1.048046	Y



Calibration

/ Hexachlorobutadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

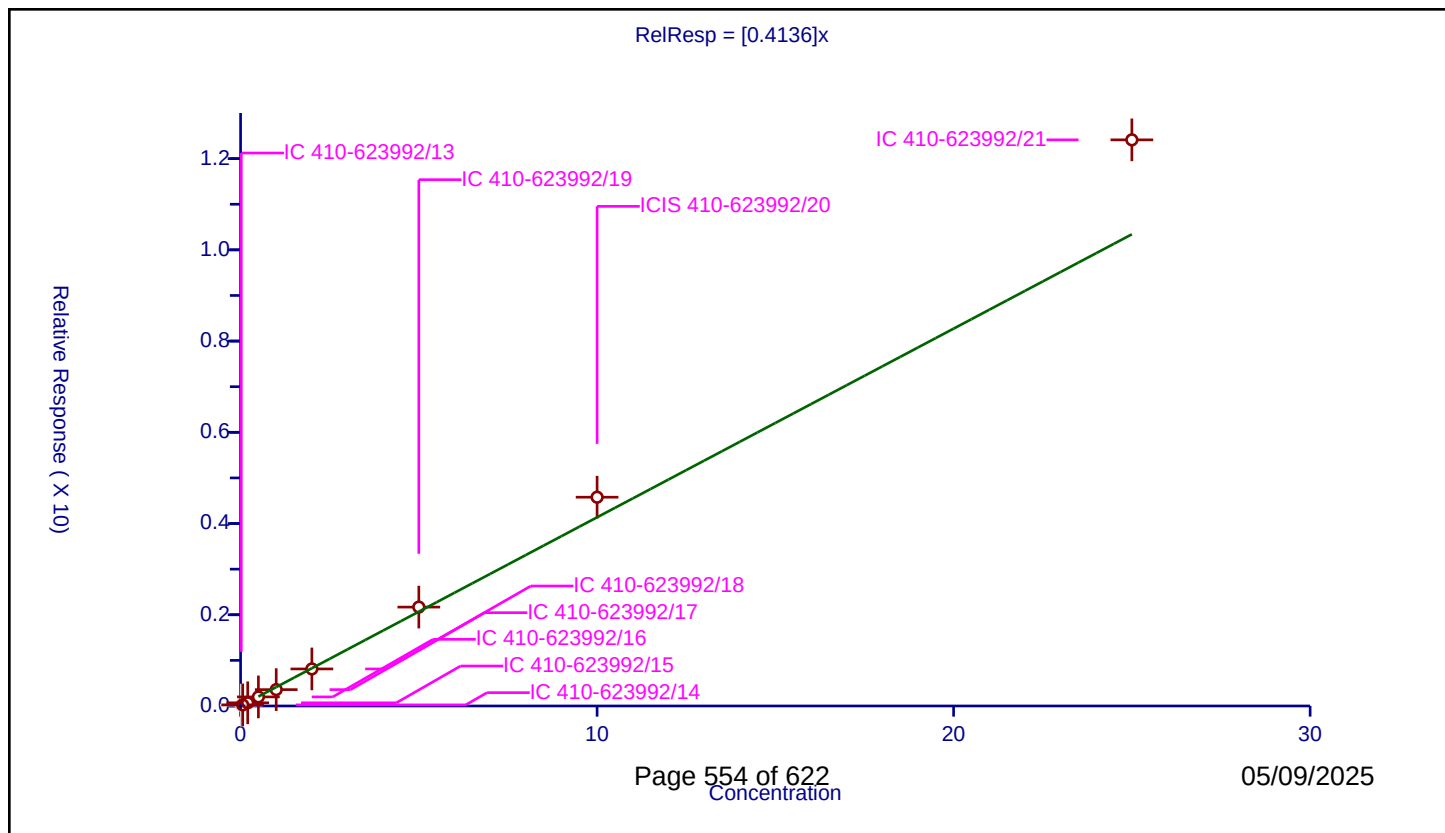
Curve Coefficients

Intercept: 0
 Slope: 0.4136

Error Coefficients

Relative Standard Deviation: 11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.018939	10.0	743425.0	0.946968	N
2	IC 410-623992/14	0.06	0.024524	10.0	750682.0	0.408739	Y
3	IC 410-623992/15	0.2	0.06979	10.0	765014.0	0.348948	Y
4	IC 410-623992/16	0.5	0.199253	10.0	769122.0	0.398506	Y
5	IC 410-623992/17	1.0	0.358911	10.0	763700.0	0.358911	Y
6	IC 410-623992/18	2.0	0.812318	10.0	758619.0	0.406159	Y
7	IC 410-623992/19	5.0	2.168322	10.0	782167.0	0.433664	Y
8	ICIS 410-623992/20	10.0	4.577573	10.0	791747.0	0.457757	Y
9	IC 410-623992/21	25.0	12.411737	10.0	829879.0	0.496469	Y



Calibration

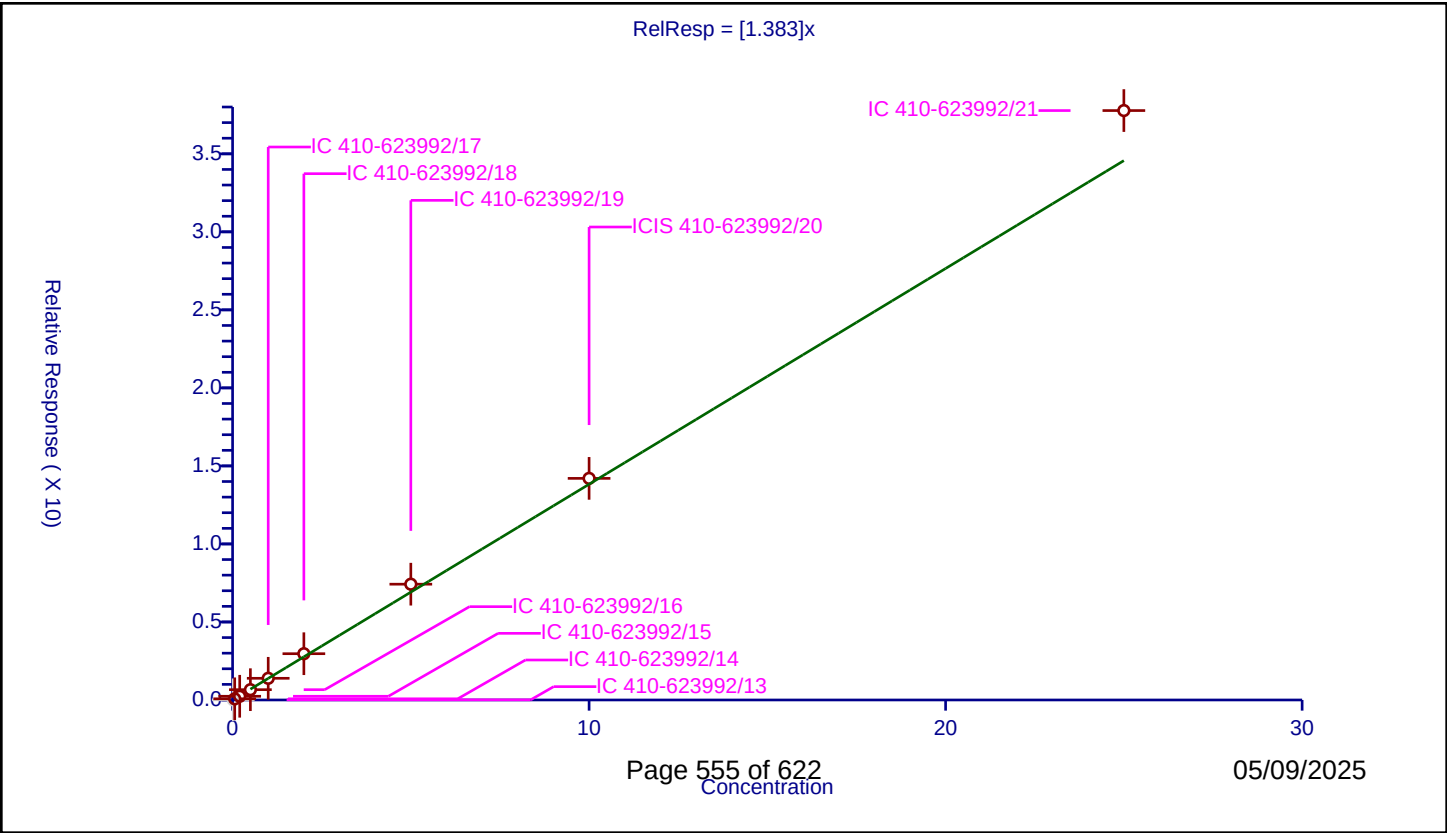
/ Naphthalene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.383

Error Coefficients	
Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.011366	10.0	743425.0	0.568316	N
2	IC 410-623992/14	0.06	0.075771	10.0	750682.0	1.262852	Y
3	IC 410-623992/15	0.2	0.238231	10.0	765014.0	1.191155	Y
4	IC 410-623992/16	0.5	0.659687	10.0	769122.0	1.319375	Y
5	IC 410-623992/17	1.0	1.389459	10.0	763700.0	1.389459	Y
6	IC 410-623992/18	2.0	2.965151	10.0	758619.0	1.482576	Y
7	IC 410-623992/19	5.0	7.420282	10.0	782167.0	1.484056	Y
8	ICIS 410-623992/20	10.0	14.202555	10.0	791747.0	1.420255	Y
9	IC 410-623992/21	25.0	37.773422	10.0	829879.0	1.510937	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

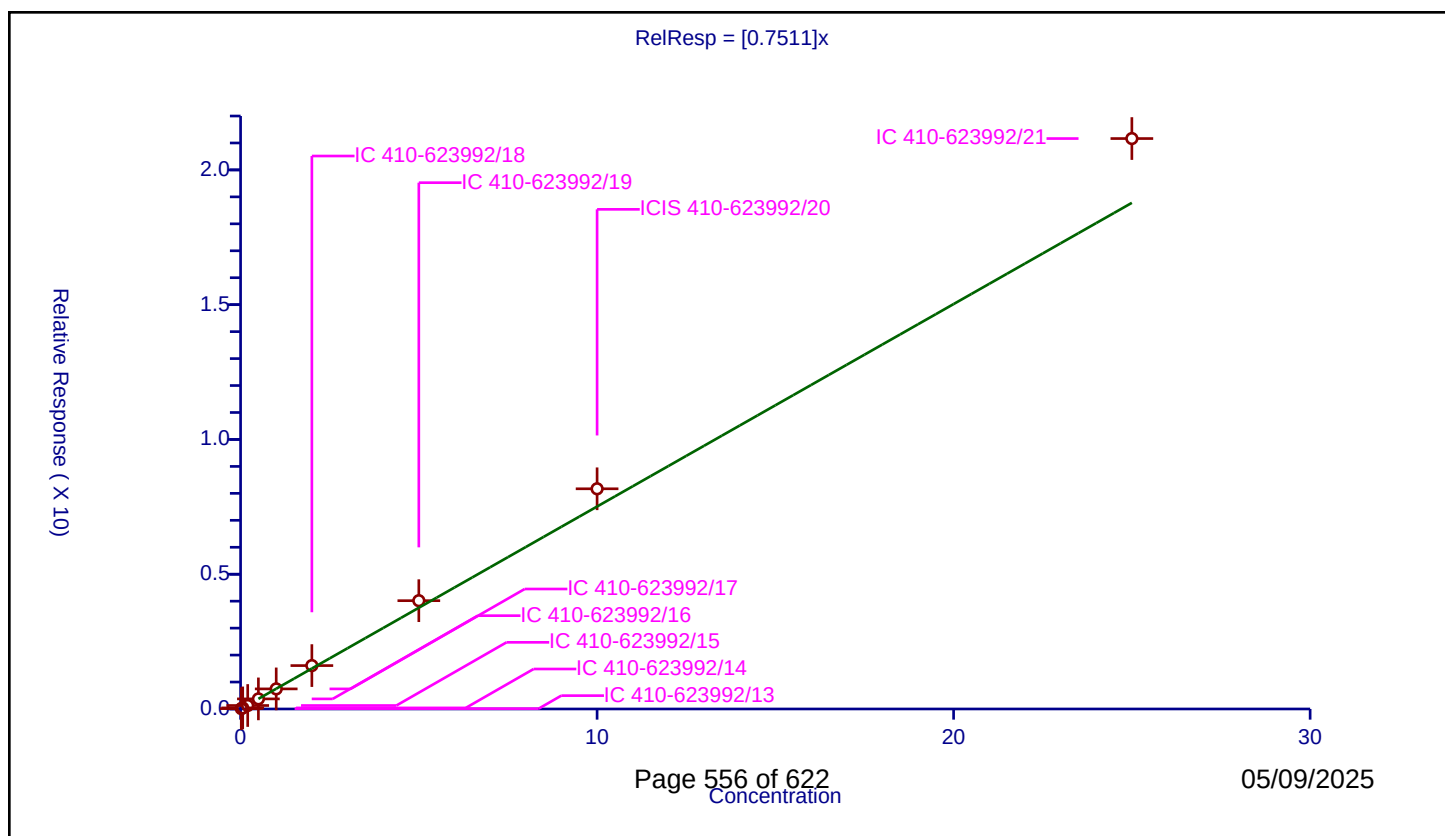
Curve Coefficients

Intercept: 0
Slope: 0.7511

Error Coefficients

Relative Standard Deviation: 9.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-623992/13	0.02	0.013693	10.0	743425.0	0.684669	Y
2	IC 410-623992/14	0.06	0.03983	10.0	750682.0	0.663841	Y
3	IC 410-623992/15	0.2	0.12903	10.0	765014.0	0.645152	Y
4	IC 410-623992/16	0.5	0.374518	10.0	769122.0	0.749036	Y
5	IC 410-623992/17	1.0	0.745371	10.0	763700.0	0.745371	Y
6	IC 410-623992/18	2.0	1.610281	10.0	758619.0	0.805141	Y
7	IC 410-623992/19	5.0	4.018132	10.0	782167.0	0.803626	Y
8	ICIS 410-623992/20	10.0	8.169605	10.0	791747.0	0.81696	Y
9	IC 410-623992/21	25.0	21.163712	10.0	829879.0	0.846548	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-219242-1

SDG No.: _____

Lab Sample ID: ICV 410-623992/23

Calibration Date: 03/31/2025 19:20

Instrument ID: 19094

Calib Start Date: 03/31/2025 15:52

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

Calib End Date: 03/31/2025 18:38

Lab File ID: HM31X22.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	0.3320	0.3862	0.1000	5.81	5.00	16.3	30.0
Chloromethane	Ave	0.4693	0.4422	0.1000	4.71	5.00	-5.8	30.0
1,3-Butadiene	Ave	0.4246	0.4401		5.18	5.00	3.6	30.0
Vinyl chloride	Ave	0.4091	0.4360	0.1000	5.33	5.00	6.6	30.0
Bromomethane	Ave	0.2788	0.2851	0.1000	5.11	5.00	2.3	30.0
Chloroethane	Ave	0.2301	0.2531	0.1000	5.50	5.00	10.0	30.0
Dichlorofluoromethane	Ave	0.6567	0.6343		4.83	5.00	-3.4	30.0
Trichlorofluoromethane	Ave	0.4846	0.5115	0.1000	5.28	5.00	5.5	30.0
Ethyl ether	Ave	0.1669	0.1862		5.58	5.00	11.5	30.0
Freon 123a	Ave	0.3610	0.3829		5.30	5.00	6.1	30.0
Acrolein	Ave	3.472	3.392		35.7	36.6	-2.3	30.0
1,1-Dichloroethene	Ave	0.2318	0.2767	0.1000	5.97	5.00	19.4	30.0
Acetone	Ave	3.673	3.549	0.1000	60.4	62.5	-3.4	30.0
Freon 113	Ave	0.2560	0.2645	0.1000	5.17	5.00	3.3	30.0
Methyl iodide	Ave	0.4453	0.4544		5.10	5.00	2.1	30.0
Ethyl bromide	Ave	0.2151	0.2319		5.45	5.05	7.8	30.0
Carbon disulfide	Ave	0.7436	0.7484	0.1000	5.03	5.00	0.6	30.0
Methyl acetate	Lin		10.75	0.1000	4.82	5.00	-3.6	30.0
Allyl chloride	Ave	0.4843	0.4564		4.71	5.00	-5.8	30.0
Methylene Chloride	Ave	0.2437	0.2726	0.1000	5.59	5.00	11.9	30.0
t-Butyl alcohol	Ave	1.019	1.071		52.6	50.0	5.1	30.0
Acrylonitrile	Lin		5.476		22.5	25.0	-10.1	30.0
Methyl tert-butyl ether	Ave	0.5390	0.5309	0.1000	4.92	5.00	-1.5	30.0
trans-1,2-Dichloroethene	Ave	0.2596	0.2928	0.1000	5.64	5.00	12.8	30.0
n-Hexane	Ave	0.3919	0.4007		5.11	5.00	2.2	30.0
1,1-Dichloroethane	Ave	0.5189	0.5635	0.2000	5.43	5.00	8.6	30.0
di-Isopropyl ether	Ave	0.8955	0.9105		5.08	5.00	1.7	30.0
2-Chloro-1,3-butadiene	Ave	0.4556	0.4534		4.98	5.00	-0.5	30.0
Ethyl t-butyl ether	Ave	0.7944	0.7860		4.95	5.00	-1.1	30.0
2-Butanone (MEK)	Ave	6.936	7.611	0.1000	68.6	62.5	9.7	30.0
cis-1,2-Dichloroethene	Ave	0.3097	0.3145	0.1000	5.08	5.00	1.5	30.0
2,2-Dichloropropane	Ave	0.4320	0.4588		5.31	5.00	6.2	30.0
Propionitrile	Ave	1.647	1.840		41.9	37.5	11.8	30.0
Methacrylonitrile	Lin		8.976		35.8	37.5	-4.6	30.0
Bromochloromethane	Ave	0.1064	0.1177		5.53	5.00	10.6	30.0
Tetrahydrofuran	Lin1		2.234		23.4	25.0	-6.5	30.0
Chloroform	Ave	0.4838	0.5171	0.2000	5.34	5.00	6.9	30.0
1,1,1-Trichloroethane	Ave	0.4380	0.4758	0.1000	5.43	5.00	8.6	30.0
Cyclohexane	Ave	0.5067	0.5302	0.1000	5.23	5.00	4.6	30.0
1,1-Dichloropropene	Ave	0.4185	0.4381		5.23	5.00	4.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-219242-1

SDG No.:

Lab Sample ID: ICV 410-623992/23

Calibration Date: 03/31/2025 19:20

Instrument ID: 19094

Calib Start Date: 03/31/2025 15:52

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

Calib End Date: 03/31/2025 18:38

Lab File ID: HM31X22.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
Carbon tetrachloride	Ave	0.3889	0.4260	0.1000	5.48	5.00	9.5	30.0
Isobutyl alcohol	Ave	0.3421	0.3747		137	125	9.6	30.0
Benzene	Ave	1.202	1.245	0.5000	5.18	5.00	3.6	30.0
1,2-Dichloroethane	Ave	0.2521	0.2667	0.1000	5.29	5.00	5.8	30.0
t-Amyl methyl ether	Ave	0.6355	0.6313		4.97	5.00	-0.7	30.0
n-Heptane	Ave	0.3723	0.4160		5.59	5.00	11.7	30.0
n-Butanol	Lin		0.2436		256	250	2.2	30.0
Trichloroethene	Ave	0.3070	0.3232	0.2000	5.26	5.00	5.3	30.0
Methylcyclohexane	Ave	0.4980	0.5340	0.1000	5.36	5.00	7.2	30.0
1,2-Dichloropropane	Ave	0.2894	0.3119	0.1000	5.39	5.00	7.8	30.0
Methyl methacrylate	Lin		15.81		3.96	5.00	-20.7	30.0
1,4-Dioxane	Ave	0.0487	0.0852	0.0050	219	125	75.0*	30.0
Dibromomethane	Ave	0.1085	0.1176		5.42	5.00	8.3	30.0
Bromodichloromethane	Ave	0.3201	0.3484	0.2000	5.44	5.00	8.8	30.0
2-Nitropropane	Ave	5.276	4.703		4.46	5.00	-10.9	30.0
1-Bromo-2-chloroethane	Ave	0.2496	0.2728		5.46	5.00	9.3	30.0
cis-1,3-Dichloropropene	Ave	0.4106	0.4148	0.2000	5.05	5.00	1.0	30.0
4-Methyl-2-pentanone (MIBK)	Ave	21.40	22.21	0.1000	64.9	62.5	3.8	30.0
Toluene	Ave	1.061	1.099	0.4000	5.18	5.00	3.6	30.0
trans-1,3-Dichloropropene	Ave	0.4144	0.4586	0.1000	5.53	5.00	10.7	30.0
Ethyl methacrylate	Ave	0.2933	0.3238		5.52	5.00	10.4	30.0
1,1,2-Trichloroethane	Ave	0.2277	0.2401	0.1000	5.27	5.00	5.5	30.0
Tetrachloroethene	Ave	0.4912	0.4970	0.2000	5.06	5.00	1.2	30.0
1,3-Dichloropropane	Ave	0.4101	0.4279		5.22	5.00	4.3	30.0
2-Hexanone	Linl		15.07	0.1000	58.9	62.5	-5.8	30.0
Dibromochloromethane	Ave	0.2819	0.3109		5.51	5.00	10.3	30.0
1,2-Dibromoethane (EDB)	Ave	0.2063	0.2173	0.1000	5.27	5.00	5.4	30.0
1-Chlorohexane	Ave	0.6546	0.6034		4.61	5.00	-7.8	30.0
Chlorobenzene	Ave	1.133	1.172	0.5000	5.17	5.00	3.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3732	0.4054		5.43	5.00	8.6	30.0
Ethylbenzene	Ave	2.075	2.147	0.1000	5.17	5.00	3.5	30.0
m&p-Xylene	Ave	0.7773	0.8160	0.1000	10.5	10.0	5.0	30.0
o-Xylene	Ave	0.7428	0.7936	0.3000	5.34	5.00	6.8	30.0
Styrene	Ave	1.139	1.262	0.3000	5.54	5.00	10.8	30.0
Bromoform	Ave	0.1560	0.1711	0.1000	5.49	5.00	9.7	30.0
Isopropylbenzene	Ave	1.793	2.114	0.1000	5.89	5.00	17.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.4919	0.5147	0.3000	5.23	5.00	4.6	30.0
Bromobenzene	Ave	0.8109	0.8520		5.25	5.00	5.1	30.0
trans-1,4-Dichloro-2-butene	Ave	8.488	8.601		25.3	25.0	1.3	30.0
1,2,3-Trichloropropane	Ave	0.1197	0.1247		5.21	5.00	4.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-219242-1

SDG No.:

Lab Sample ID: ICV 410-623992/23

Calibration Date: 03/31/2025 19:20

Instrument ID: 19094

Calib Start Date: 03/31/2025 15:52

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

Calib End Date: 03/31/2025 18:38

Lab File ID: HM31X22.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Propylbenzene	Ave	4.337	4.583		5.28	5.00	5.7	30.0
2-Chlorotoluene	Ave	0.8641	0.9032		5.23	5.00	4.5	30.0
1,3,5-Trimethylbenzene	Ave	3.041	3.239		5.32	5.00	6.5	30.0
4-Chlorotoluene	Ave	0.8851	0.9101		5.14	5.00	2.8	30.0
tert-Butylbenzene	Ave	0.6836	0.7004		5.12	5.00	2.5	30.0
Pentachloroethane	Ave	0.4974	0.5376		5.40	5.00	8.1	30.0
1,2,4-Trimethylbenzene	Ave	3.114	3.266		5.24	5.00	4.9	30.0
sec-Butylbenzene	Ave	3.773	3.988		5.29	5.00	5.7	30.0
1,3-Dichlorobenzene	Ave	1.596	1.707	0.6000	5.35	5.00	7.0	30.0
p-Isopropyltoluene	Ave	3.200	3.473		5.43	5.00	8.5	30.0
1,4-Dichlorobenzene	Ave	1.697	1.674	0.5000	4.93	5.00	-1.3	30.0
1,2,3-Trimethylbenzene	Ave	1.416	1.392		4.91	5.00	-1.7	30.0
Benzyl chloride	Ave	0.1956	0.2046		5.23	5.00	4.6	30.0
n-Butylbenzene	Ave	1.442	1.620		5.61	5.00	12.3	30.0
1,2-Dichlorobenzene	Ave	1.379	1.491	0.4000	5.41	5.00	8.1	30.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0627	0.0500	5.00	5.00	0.0	30.0
1,3,5-Trichlorobenzene	Ave	1.151	1.270		5.52	5.00	10.3	30.0
1,2,4-Trichlorobenzene	Ave	0.8626	1.012	0.2000	5.87	5.00	17.4	30.0
Hexachlorobutadiene	Ave	0.4136	0.4738		5.73	5.00	14.5	30.0
Naphthalene	Ave	1.383	1.543		5.58	5.00	11.6	30.0
1,2,3-Trichlorobenzene	Ave	0.7511	0.8139		5.42	5.00	8.4	30.0
Pentane	None					5.00		30.0
Dibromofluoromethane (Surr)	Ave	0.2172	0.2207		10.2	10.0	1.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0385	0.0386		10.0	10.0	0.3	30.0
Toluene-d8 (Surr)	Ave	1.353	1.357		10.0	10.0	0.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4952	0.4930		9.95	10.0	-0.5	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X22.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 31-Mar-2025 19:20:30 ALS Bottle#: 22 Worklist Smp#: 23
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0142485-023
 Misc. Info.: ICV
 Operator ID: ecr105096 Instrument ID: 19094
 Sublist:
 Method: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 12-Apr-2025 07:07:20 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1648

First Level Reviewer: N7YK

Date: 01-Apr-2025 16:24:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.837	1.843	-0.006	99	386288	5.00	5.81	
5 Chloromethane	50	2.026	2.032	-0.006	99	442313	5.00	4.71	
7 Butadiene	39	2.123	2.129	-0.006	91	440259	5.00	5.18	
6 Vinyl chloride	62	2.136	2.142	-0.006	98	436177	5.00	5.33	
9 Bromomethane	94	2.416	2.422	-0.006	92	285162	5.00	5.11	
10 Chloroethane	64	2.495	2.501	-0.006	100	253140	5.00	5.50	
11 Dichlorofluoromethane	67	2.709	2.721	-0.012	97	634528	5.00	4.83	
12 Trichlorofluoromethane	101	2.800	2.812	-0.012	50	511668	5.00	5.28	
14 Ethyl ether	59	2.995	3.001	-0.006	92	186157	5.00	5.58	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.068	3.080	-0.012	94	383070	5.00	5.30	
16 Acrolein	56	3.154	3.160	-0.006	99	145712	36.6	35.7	
17 1,1-Dichloroethene	96	3.282	3.288	-0.006	97	276780	5.00	5.97	
19 Acetone	43	3.300	3.312	-0.012	91	260409	62.5	60.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.318	3.324	-0.006	93	264629	5.00	5.17	
21 Iodomethane	142	3.459	3.471	-0.012	98	454598	5.00	5.10	
22 Ethyl bromide	108	3.483	3.495	-0.012	98	234401	5.05	5.45	
23 Carbon disulfide	76	3.562	3.574	-0.012	99	748622	5.00	5.03	
24 Methyl acetate	43	3.690	3.690	0.000	98	63105	5.00	4.82	
26 3-Chloro-1-propene	41	3.708	3.721	-0.013	93	456557	5.00	4.71	
27 Methylene Chloride	84	3.879	3.885	-0.006	94	272678	5.00	5.59	
* 28 t-Butyl alcohol-d10 (IS)	65	3.904	3.910	-0.006	93	58699	50.0	50.0	
29 2-Methyl-2-propanol	59	4.013	4.019	-0.006	94	62886	50.0	52.6	
31 Acrylonitrile	53	4.214	4.221	-0.006	98	160730	25.0	22.5	
32 Methyl tert-butyl ether	73	4.251	4.269	-0.018	94	531049	5.00	4.92	
33 trans-1,2-Dichloroethene	96	4.269	4.281	-0.012	98	292899	5.00	5.64	
34 Hexane	57	4.678	4.696	-0.018	93	400872	5.00	5.11	
36 1,1-Dichloroethane	63	4.922	4.928	-0.006	96	563708	5.00	5.43	
37 Isopropyl ether	45	4.977	4.989	-0.012	96	910786	5.00	5.08	
38 2-Chloro-1,3-butadiene	53	5.037	5.037	0.000	91	453539	5.00	4.98	
40 Tert-butyl ethyl ether	59	5.525	5.537	-0.012	99	786312	5.00	4.95	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.732	5.732	0.000	100	558412	62.5	68.6	
42 cis-1,2-Dichloroethene	96	5.769	5.769	0.000	83	314577	5.00	5.08	
43 2,2-Dichloropropane	77	5.781	5.787	-0.006	86	458998	5.00	5.31	
44 Propionitrile	54	5.824	5.836	-0.012	97	81011	37.5	41.9	
47 Methacrylonitrile	67	6.025	6.031	-0.006	92	395175	37.5	35.8	
48 Chlorobromomethane	128	6.104	6.098	0.006	97	117733	5.00	5.53	
49 Tetrahydrofuran	71	6.123	6.123	0.000	81	65557	25.0	23.4	
50 Chloroform	83	6.257	6.257	0.000	94	517293	5.00	5.34	
\$ 52 Dibromofluoromethane (Surr)	113	6.476	6.476	0.000	94	441541	10.0	10.2	
53 1,1,1-Trichloroethane	97	6.495	6.494	0.001	99	476007	5.00	5.43	
54 Cyclohexane	56	6.592	6.598	-0.006	91	530408	5.00	5.23	
55 1,1-Dichloropropene	75	6.708	6.708	0.000	96	438268	5.00	5.23	
56 Carbon tetrachloride	117	6.714	6.714	0.000	96	426116	5.00	5.48	
57 Isobutyl alcohol	41	6.872	6.866	0.006	90	54992	125.0	136.9	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.933	6.933	0.000	81	77183	10.0	10.0	
59 Benzene	78	6.964	6.970	-0.006	97	1245221	5.00	5.18	
60 1,2-Dichloroethane	62	7.043	7.043	0.000	97	266801	5.00	5.29	
63 Tert-amyl methyl ether	73	7.171	7.177	-0.006	98	631505	5.00	4.97	
* 64 Fluorobenzene (IS)	96	7.385	7.385	0.000	98	2000681	10.0	10.0	
65 n-Heptane	43	7.403	7.409	-0.006	93	416125	5.00	5.59	
67 n-Butanol	56	7.805	7.793	0.012	91	71489	250.0	255.6	
68 Trichloroethene	95	7.872	7.878	-0.006	99	323262	5.00	5.26	
69 Methylcyclohexane	83	8.189	8.195	-0.006	93	534211	5.00	5.36	
70 1,2-Dichloropropane	63	8.208	8.208	0.000	98	312045	5.00	5.39	
71 2-ethoxy-2-methyl butane	87	8.226	8.232	-0.006	92	444676	5.00	5.10	
72 Methyl methacrylate	69	8.311	8.311	0.000	91	92813	5.00	3.96	
74 Dibromomethane	93	8.323	8.323	0.000	96	117611	5.00	5.42	
73 1,4-Dioxane	88	8.317	8.329	-0.012	29	12505	125.0	218.7	M
76 Dichlorobromomethane	83	8.561	8.561	0.000	100	348481	5.00	5.44	
77 2-Nitropropane	41	8.836	8.835	0.001	98	27609	5.00	4.46	
79 1-Bromo-2-chloroethane	63	8.964	8.963	0.001	98	272847	5.00	5.46	
80 cis-1,3-Dichloropropene	75	9.134	9.134	0.000	96	414948	5.00	5.05	
82 4-Methyl-2-pentanone (MIBK)	43	9.317	9.317	0.000	97	1629473	62.5	64.9	
\$ 83 Toluene-d8 (Surr)	98	9.457	9.463	-0.006	94	1949304	10.0	10.0	
84 Toluene	92	9.543	9.543	0.000	98	789481	5.00	5.18	
85 trans-1,3-Dichloropropene	75	9.817	9.817	0.000	93	329385	5.00	5.53	
104 Ethyl methacrylate	69	9.890	9.890	0.000	89	232579	5.00	5.52	
106 1,1,2-Trichloroethane	97	10.024	10.030	-0.006	90	172448	5.00	5.27	
107 Tetrachloroethene	166	10.116	10.116	0.000	98	356974	5.00	5.06	
108 1,3-Dichloropropane	76	10.195	10.195	0.000	90	307331	5.00	5.22	
109 2-Hexanone	43	10.250	10.250	0.000	97	1105665	62.5	58.9	
111 Chlorodibromomethane	129	10.414	10.414	0.000	90	223275	5.00	5.51	
112 Ethylene Dibromide	107	10.530	10.530	0.000	99	156103	5.00	5.27	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	86	1436438	10.0	10.0	
114 1-Chlorohexane	91	10.988	10.987	0.001	98	433389	5.00	4.61	
115 Chlorobenzene	112	11.000	11.000	0.000	94	841534	5.00	5.17	
116 1,1,1,2-Tetrachloroethane	131	11.085	11.091	-0.006	45	291161	5.00	5.43	
117 Ethylbenzene	91	11.091	11.091	0.000	99	1541743	5.00	5.17	
119 m-Xylene & p-Xylene	106	11.213	11.213	0.000	100	1172153	10.0	10.5	
120 o-Xylene	106	11.548	11.548	0.000	97	569957	5.00	5.34	
121 Styrene	104	11.561	11.561	0.000	95	906535	5.00	5.54	
122 Bromoform	173	11.719	11.719	0.000	97	122919	5.00	5.49	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
123 Isopropylbenzene	105	11.853	11.853	0.000	96	1518484	5.00	5.89	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.000	11.999	0.001	90	708147	10.0	9.95	
127 1,1,2,2-Tetrachloroethane	83	12.103	12.103	0.000	93	198689	5.00	5.23	
128 Bromobenzene	156	12.115	12.115	0.000	94	328866	5.00	5.25	
129 trans-1,4-Dichloro-2-butene	53	12.128	12.128	0.000	91	252426	25.0	25.3	
130 1,2,3-Trichloropropane	110	12.146	12.146	0.000	81	48126	5.00	5.21	
131 N-Propylbenzene	91	12.189	12.188	0.001	99	1768856	5.00	5.28	
132 2-Chlorotoluene	126	12.262	12.262	0.000	96	348640	5.00	5.23	
133 1,3,5-Trimethylbenzene	105	12.323	12.323	0.000	94	1250082	5.00	5.32	
134 4-Chlorotoluene	126	12.353	12.353	0.000	98	351281	5.00	5.14	
135 tert-Butylbenzene	134	12.567	12.566	0.000	93	270360	5.00	5.12	
136 Pentachloroethane	167	12.597	12.597	0.000	94	207520	5.00	5.40	
137 1,2,4-Trimethylbenzene	105	12.609	12.609	0.000	97	1260749	5.00	5.24	
138 sec-Butylbenzene	105	12.731	12.731	0.000	94	1539516	5.00	5.29	
139 1,3-Dichlorobenzene	146	12.829	12.829	0.000	98	658911	5.00	5.35	
140 4-Isopropyltoluene	119	12.841	12.841	0.000	97	1340389	5.00	5.43	
* 141 1,4-Dichlorobenzene-d4	152	12.890	12.890	0.000	94	771991	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.908	12.908	0.000	94	646315	5.00	4.93	
143 1,2,3-Trimethylbenzene	120	12.914	12.914	0.000	99	537181	5.00	4.91	
144 Benzyl chloride	126	12.981	12.981	0.000	98	78959	5.00	5.23	
145 p-Diethylbenzene	119	13.115	13.115	0.000	94	803000	5.00	5.66	
146 n-Butylbenzene	92	13.133	13.133	0.000	97	625235	5.00	5.61	
147 1,2-Dichlorobenzene	146	13.164	13.164	0.000	98	575559	5.00	5.41	
149 1,2-Dibromo-3-Chloropropane	155	13.713	13.713	0.000	87	24210	5.00	5.00	
150 1,3,5-Trichlorobenzene	180	13.841	13.841	0.000	97	490253	5.00	5.52	
151 1,2,4-Trichlorobenzene	180	14.261	14.261	0.000	94	390781	5.00	5.87	
152 Hexachlorobutadiene	225	14.347	14.347	0.000	95	182869	5.00	5.73	
153 Naphthalene	128	14.438	14.438	0.000	97	595669	5.00	5.58	
154 1,2,3-Trichlorobenzene	180	14.584	14.584	0.000	96	314170	5.00	5.42	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00214	Amount Added: 12.50	Units: uL	
MSV_LCS_Penta_00053	Amount Added: 12.50	Units: uL	
MSV_QC_Gas826_00252	Amount Added: 12.50	Units: uL	
MSV_LCS_EE_00010	Amount Added: 12.50	Units: uL	
LCS_ETBR_00009	Amount Added: 12.50	Units: uL	
MSV_LCS_ACROL_00220	Amount Added: 12.50	Units: uL	
MSV_LLcentISS_00016	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 12-Apr-2025 07:08:55

Chrom Revision: 2.3 08-Apr-2025 13:07:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X22.D

Injection Date: 31-Mar-2025 19:20:30

Instrument ID: 19094

Operator ID: ecr105096

Lims ID: ICV

Worklist Smp#: 23

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

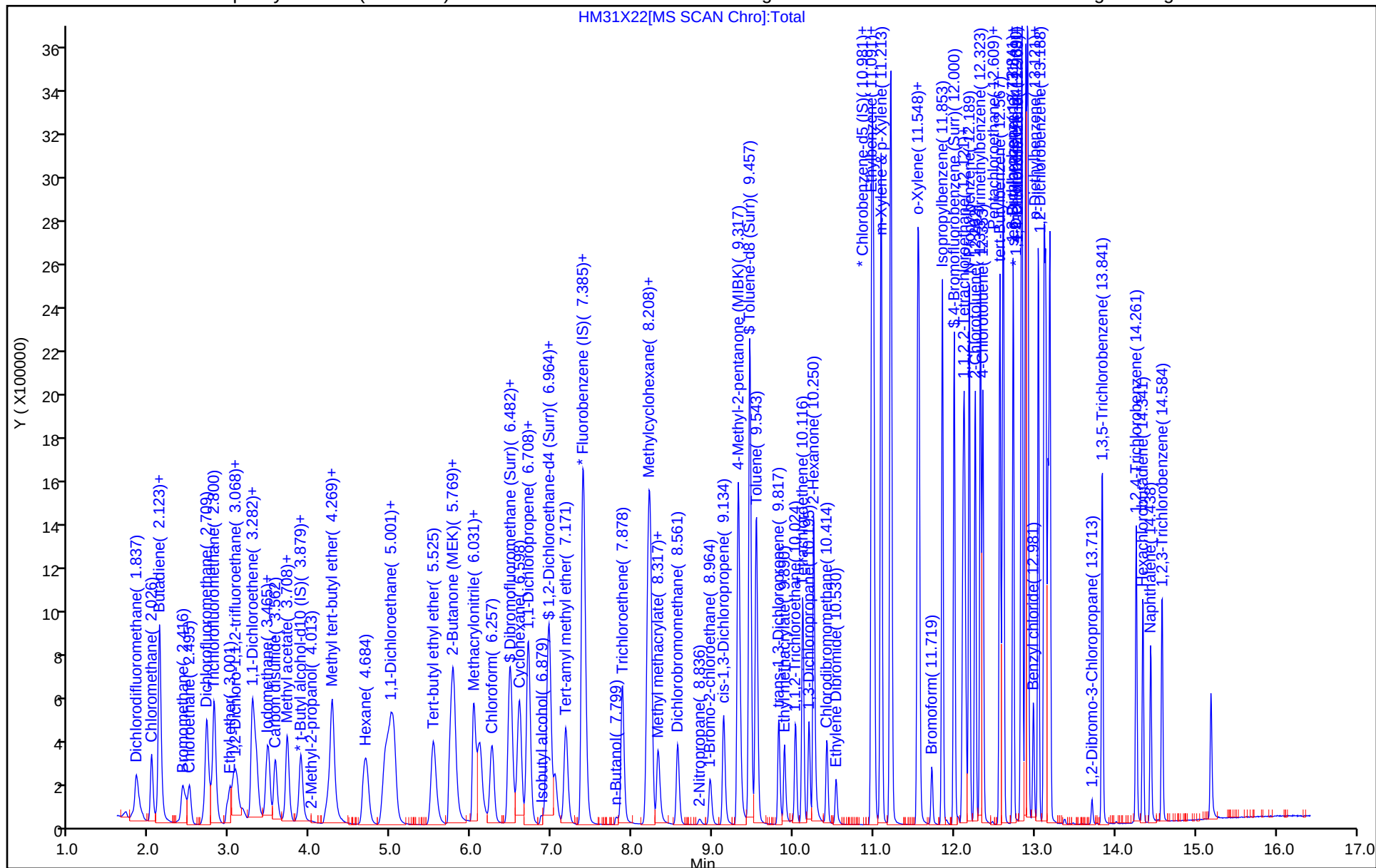
ALS Bottle#: 22

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

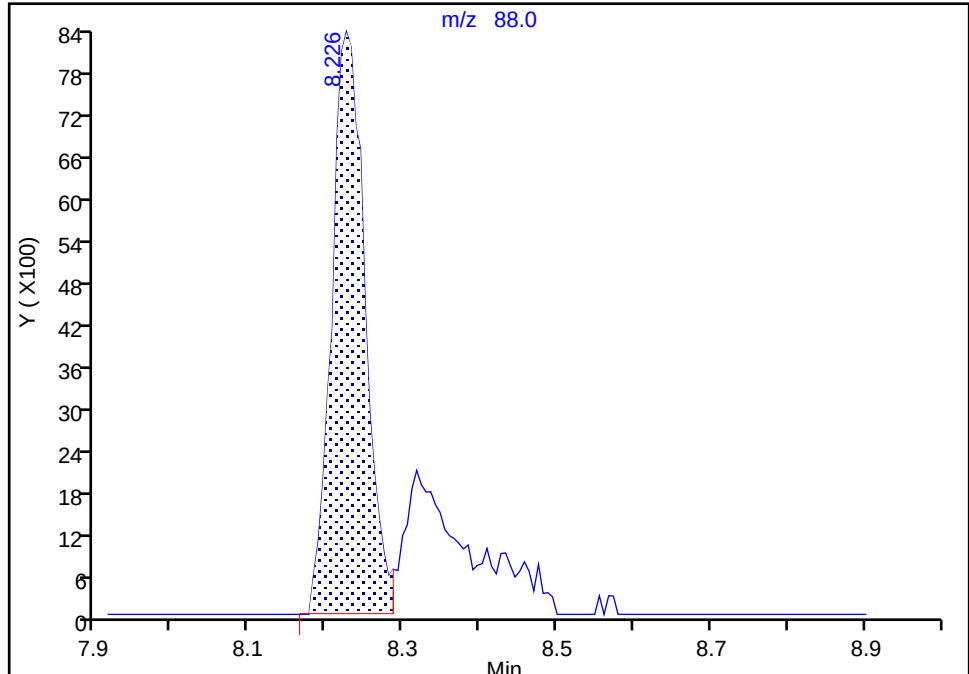
Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X22.D
Injection Date: 31-Mar-2025 19:20:30 Instrument ID: 19094
Lims ID: ICV
Client ID:
Operator ID: ecr105096 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

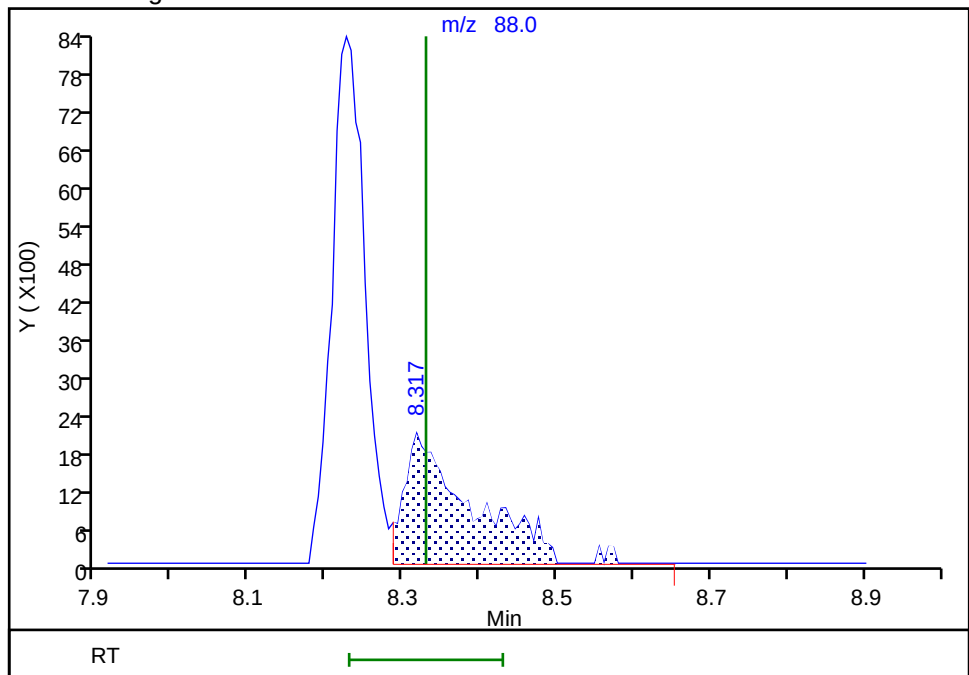
RT: 8.23
Area: 25063
Amount: 425.1844
Amount Units: ug/l

Processing Integration Results



RT: 8.32
Area: 12505
Amount: 218.7200
Amount Units: ug/l

Manual Integration Results



Reviewer: N7YK, 01-Apr-2025 16:24:27 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-219242-1

SDG No.: _____

Lab Sample ID: CCVIS 410-640992/3

Calibration Date: 05/07/2025 21:56

Instrument ID: 19094

Calib Start Date: 03/31/2025 15:52

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

Calib End Date: 03/31/2025 18:38

Lab File ID: HY07X32.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	0.3320	0.3145	0.1000	9.47	10.0	-5.3	20.0
Chloromethane	Ave	0.4693	0.4027	0.1000	8.58	10.0	-14.2	20.0
1,3-Butadiene	Ave	0.4246	0.5729		13.5	10.0	34.9*	20.0
Vinyl chloride	Ave	0.4091	0.3689	0.1000	9.02	10.0	-9.8	20.0
Bromomethane	Ave	0.2788	0.2543	0.1000	9.12	10.0	-8.8	20.0
Chloroethane	Ave	0.2301	0.2317	0.1000	10.1	10.0	0.7	20.0
Dichlorofluoromethane	Ave	0.6567	0.6212		9.46	10.0	-5.4	20.0
Trichlorofluoromethane	Ave	0.4846	0.4577	0.1000	9.44	10.0	-5.6	20.0
Ethyl ether	Ave	0.1669	0.1875		11.2	10.0	12.3	20.0
Freon 123a	Ave	0.3610	0.3718		10.3	10.0	3.0	20.0
Acrolein	Ave	3.472	3.213		451	488	-7.5	20.0
1,1-Dichloroethene	Ave	0.2318	0.2457	0.1000	10.6	10.0	6.0	20.0
Acetone	Ave	3.673	3.941	0.1000	107	100	7.3	20.0
Freon 113	Ave	0.2560	0.2785	0.1000	10.9	10.0	8.8	20.0
Methyl iodide	Ave	0.4453	0.4570		10.3	10.0	2.6	20.0
Ethyl bromide	Ave	0.2151	0.2165		10.1	9.99	0.6	20.0
Carbon disulfide	Ave	0.7436	0.7780	0.1000	10.5	10.0	4.6	20.0
Methyl acetate	Lin		13.23	0.1000	11.2	10.0	12.0	20.0
Allyl chloride	Ave	0.4843	0.4990		10.3	10.0	3.0	20.0
Methylene Chloride	Ave	0.2437	0.2566	0.1000	10.5	10.0	5.3	20.0
t-Butyl alcohol	Ave	1.019	0.8901		175	200	-12.7	20.0
Acrylonitrile	Lin		5.620		23.0	25.0	-7.9	20.0
Methyl tert-butyl ether	Ave	0.5390	0.5186	0.1000	9.62	10.0	-3.8	20.0
trans-1,2-Dichloroethene	Ave	0.2596	0.2782	0.1000	10.7	10.0	7.2	20.0
n-Hexane	Ave	0.3919	0.4720		12.0	10.0	20.4*	20.0
1,1-Dichloroethane	Ave	0.5189	0.5508	0.2000	10.6	10.0	6.2	20.0
di-Isopropyl ether	Ave	0.8955	0.9586		10.7	10.0	7.0	20.0
2-Chloro-1,3-butadiene	Ave	0.4556	0.4914		10.8	10.0	7.9	20.0
Ethyl t-butyl ether	Ave	0.7944	0.7692		9.68	10.0	-3.2	20.0
2-Butanone (MEK)	Ave	6.936	8.877	0.1000	128	100	28.0*	20.0
cis-1,2-Dichloroethene	Ave	0.3097	0.3071	0.1000	9.92	10.0	-0.8	20.0
2,2-Dichloropropane	Ave	0.4320	0.4366		10.1	10.0	1.1	20.0
Propionitrile	Ave	1.647	2.311		281	200	40.4*	20.0
Methacrylonitrile	Lin		9.619		97.5	100	-2.5	20.0
Bromochloromethane	Ave	0.1064	0.1125		10.6	10.0	5.7	20.0
Tetrahydrofuran	Linl		2.319		47.7	50.0	-4.5	20.0
Chloroform	Ave	0.4838	0.4978	0.2000	10.3	10.0	2.9	20.0
1,1,1-Trichloroethane	Ave	0.4380	0.4488	0.1000	10.2	10.0	2.5	20.0
Cyclohexane	Ave	0.5067	0.5773	0.1000	11.4	10.0	13.9	20.0
1,1-Dichloropropene	Ave	0.4185	0.4404		10.5	10.0	5.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-219242-1

SDG No.: _____

Lab Sample ID: CCVIS 410-640992/3

Calibration Date: 05/07/2025 21:56

Instrument ID: 19094

Calib Start Date: 03/31/2025 15:52

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

Calib End Date: 03/31/2025 18:38

Lab File ID: HY07X32.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
Carbon tetrachloride	Ave	0.3889	0.3927	0.1000	10.1	10.0	1.0	20.0
Isobutyl alcohol	Ave	0.3421	0.4009		586	500	17.2	20.0
Benzene	Ave	1.202	1.245	0.5000	10.4	10.0	3.6	20.0
1,2-Dichloroethane	Ave	0.2521	0.2598	0.1000	10.3	10.0	3.1	20.0
t-Amyl methyl ether	Ave	0.6355	0.6035		9.50	10.0	-5.0	20.0
n-Heptane	Ave	0.3723	0.4628		12.4	10.0	24.3*	20.0
n-Butanol	Lin		0.3338		1160	875	32.5*	20.0
Trichloroethene	Ave	0.3070	0.3181	0.2000	10.4	10.0	3.6	20.0
Methylcyclohexane	Ave	0.4980	0.5573	0.1000	11.2	10.0	11.9	20.0
1,2-Dichloropropane	Ave	0.2894	0.3147	0.1000	10.9	10.0	8.7	20.0
Methyl methacrylate	Lin		16.93		8.13	10.0	-18.7	20.0
1,4-Dioxane	Ave	0.0487	0.0606	0.0050	622	500	24.4*	20.0
Dibromomethane	Ave	0.1085	0.1141		10.5	10.0	5.2	20.0
Bromodichloromethane	Ave	0.3201	0.3300	0.2000	10.3	10.0	3.1	20.0
2-Nitropropane	Ave	5.276	5.091		48.2	50.0	-3.5	20.0
1-Bromo-2-chloroethane	Ave	0.2496	0.2673		10.7	10.0	7.1	20.0
cis-1,3-Dichloropropene	Ave	0.4106	0.4102	0.2000	9.99	10.0	-0.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	21.40	24.02	0.1000	112	100	12.3	20.0
Toluene	Ave	1.061	1.061	0.4000	10.0	10.0	-0.0	20.0
trans-1,3-Dichloropropene	Ave	0.4144	0.4349	0.1000	10.5	10.0	4.9	20.0
Ethyl methacrylate	Ave	0.2933	0.3208		10.9	10.0	9.4	20.0
1,1,2-Trichloroethane	Ave	0.2277	0.2291	0.1000	10.1	10.0	0.6	20.0
Tetrachloroethene	Ave	0.4912	0.4752	0.2000	9.68	10.0	-3.2	20.0
1,3-Dichloropropane	Ave	0.4101	0.4208		10.3	10.0	2.6	20.0
2-Hexanone	Linl		16.09	0.1000	99.4	100	-0.6	20.0
Dibromochloromethane	Ave	0.2819	0.2879		10.2	10.0	2.1	20.0
1,2-Dibromoethane (EDB)	Ave	0.2063	0.2100	0.1000	10.2	10.0	1.8	20.0
1-Chlorohexane	Ave	0.6546	0.6212		9.49	10.0	-5.1	20.0
Chlorobenzene	Ave	1.133	1.112	0.5000	9.82	10.0	-1.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3732	0.3706		9.93	10.0	-0.7	20.0
Ethylbenzene	Ave	2.075	2.168	0.1000	10.4	10.0	4.5	20.0
m&p-Xylene	Ave	0.7773	0.8156	0.1000	21.0	20.0	4.9	20.0
o-Xylene	Ave	0.7428	0.7784	0.3000	10.5	10.0	4.8	20.0
Styrene	Ave	1.139	1.234	0.3000	10.8	10.0	8.3	20.0
Bromoform	Ave	0.1560	0.1535	0.1000	9.84	10.0	-1.6	20.0
Isopropylbenzene	Ave	1.793	1.879	0.1000	10.5	10.0	4.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.4919	0.5155	0.3000	10.5	10.0	4.8	20.0
Bromobenzene	Ave	0.8109	0.8034		9.91	10.0	-0.9	20.0
trans-1,4-Dichloro-2-butene	Ave	8.488	7.587		89.4	100	-10.6	20.0
1,2,3-Trichloropropane	Ave	0.1197	0.1255		10.5	10.0	4.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-219242-1

SDG No.:

Lab Sample ID: CCVIS 410-640992/3

Calibration Date: 05/07/2025 21:56

Instrument ID: 19094

Calib Start Date: 03/31/2025 15:52

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

Calib End Date: 03/31/2025 18:38

Lab File ID: HY07X32.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Propylbenzene	Ave	4.337	4.774		11.0	10.0	10.1	20.0
2-Chlorotoluene	Ave	0.8641	0.8786		10.2	10.0	1.7	20.0
1,3,5-Trimethylbenzene	Ave	3.041	3.261		10.7	10.0	7.2	20.0
4-Chlorotoluene	Ave	0.8851	0.9069		10.2	10.0	2.5	20.0
tert-Butylbenzene	Ave	0.6836	0.7242		10.6	10.0	5.9	20.0
Pentachloroethane	Ave	0.4974	0.5303		10.7	10.0	6.6	20.0
1,2,4-Trimethylbenzene	Ave	3.114	3.298		10.6	10.0	5.9	20.0
sec-Butylbenzene	Ave	3.773	4.282		11.3	10.0	13.5	20.0
1,3-Dichlorobenzene	Ave	1.596	1.668	0.6000	10.4	10.0	4.5	20.0
p-Isopropyltoluene	Ave	3.200	3.622		11.3	10.0	13.2	20.0
1,4-Dichlorobenzene	Ave	1.697	1.644	0.5000	9.69	10.0	-3.1	20.0
1,2,3-Trimethylbenzene	Ave	1.416	1.377		9.73	10.0	-2.7	20.0
Benzyl chloride	Ave	0.1956	0.2027		10.4	10.0	3.6	20.0
n-Butylbenzene	Ave	1.442	1.820		12.6	10.0	26.2*	20.0
1,2-Dichlorobenzene	Ave	1.379	1.425	0.4000	10.3	10.0	3.4	20.0
1,2-Dibromo-3-Chloropropane	Lin2		0.0613	0.0500	9.69	10.0	-3.1	20.0
1,3,5-Trichlorobenzene	Ave	1.151	1.245		10.8	10.0	8.1	20.0
1,2,4-Trichlorobenzene	Ave	0.8626	0.9634	0.2000	11.2	10.0	11.7	20.0
Hexachlorobutadiene	Ave	0.4136	0.5055		12.2	10.0	22.2*	20.0
Naphthalene	Ave	1.383	1.460		10.6	10.0	5.6	20.0
1,2,3-Trichlorobenzene	Ave	0.7511	0.7876		10.5	10.0	4.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2172	0.2202		10.1	10.0	1.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0385	0.0393		10.2	10.0	2.1	20.0
Toluene-d8 (Surr)	Ave	1.353	1.367		10.1	10.0	1.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4952	0.4875		9.84	10.0	-1.6	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X32.D
 Lims ID: CCVIS VSTD10
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 07-May-2025 21:56:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0146489-003
 Misc. Info.: CCVIS VSTD10
 Operator ID: gaw91131 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 01:32:01 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: JS6E

Date: 07-May-2025 23:01:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.843	1.843	0.000	99	553097	10.0	9.47	
5 Chloromethane	50	2.032	2.032	0.000	99	708122	10.0	8.58	
7 Butadiene	39	2.129	2.129	0.000	91	1007432	10.0	13.5	
6 Vinyl chloride	62	2.142	2.142	0.000	98	648693	10.0	9.02	
9 Bromomethane	94	2.422	2.422	0.000	90	447129	10.0	9.12	
10 Chloroethane	64	2.507	2.507	0.000	100	407403	10.0	10.1	
11 Dichlorofluoromethane	67	2.715	2.715	0.000	97	1092321	10.0	9.46	
12 Trichlorofluoromethane	101	2.721	2.721	0.000	82	804887	10.0	9.44	
14 Ethyl ether	59	3.001	3.001	0.000	95	329796	10.0	11.2	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.068	3.068	0.000	94	653743	10.0	10.3	
16 Acrolein	56	3.154	3.154	0.000	100	1550164	487.9	451.4	
17 1,1-Dichloroethene	96	3.282	3.282	0.000	96	432010	10.0	10.6	
19 Acetone	43	3.282	3.282	0.000	32	389730	100.0	107.3	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.324	3.324	0.000	93	489796	10.0	10.9	
21 Iodomethane	142	3.465	3.465	0.000	99	803630	10.0	10.3	
22 Ethyl bromide	108	3.489	3.489	0.000	98	380306	9.99	10.1	
23 Carbon disulfide	76	3.568	3.568	0.000	99	1368123	10.0	10.5	
24 Methyl acetate	43	3.696	3.696	0.000	97	130852	10.0	11.2	M
26 3-Chloro-1-propene	41	3.715	3.715	0.000	93	877447	10.0	10.3	
27 Methylene Chloride	84	3.885	3.885	0.000	95	451206	10.0	10.5	
* 28 t-Butyl alcohol-d10 (IS)	65	3.928	3.928	0.000	37	49445	50.0	50.0	
29 2-Methyl-2-propanol	59	4.032	4.032	0.000	98	176037	200.0	174.6	
31 Acrylonitrile	53	4.233	4.233	0.000	59	138930	25.0	23.0	
32 Methyl tert-butyl ether	73	4.263	4.263	0.000	96	911897	10.0	9.62	
33 trans-1,2-Dichloroethene	96	4.275	4.275	0.000	98	489272	10.0	10.7	
34 Hexane	57	4.696	4.696	0.000	93	830021	10.0	12.0	
36 1,1-Dichloroethane	63	4.928	4.928	0.000	96	968562	10.0	10.6	
37 Isopropyl ether	45	4.989	4.989	0.000	95	1685785	10.0	10.7	
38 2-Chloro-1,3-butadiene	53	5.037	5.037	0.000	91	864145	10.0	10.8	
40 Tert-butyl ethyl ether	59	5.531	5.531	0.000	98	1352585	10.0	9.68	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.732	5.732	0.000	100	877852	100.0	128.0	
42 cis-1,2-Dichloroethene	96	5.769	5.769	0.000	84	540033	10.0	9.92	
43 2,2-Dichloropropane	77	5.781	5.781	0.000	88	767756	10.0	10.1	
44 Propionitrile	54	5.818	5.818	0.000	99	457084	200.0	280.7	
47 Methacrylonitrile	67	6.031	6.031	0.000	93	951207	100.0	97.5	
48 Chlorobromomethane	128	6.104	6.104	0.000	97	197892	10.0	10.6	
49 Tetrahydrofuran	71	6.123	6.123	0.000	70	114673	50.0	47.7	
50 Chloroform	83	6.257	6.257	0.000	93	875361	10.0	10.3	
\$ 52 Dibromofluoromethane (Surr)	113	6.476	6.476	0.000	93	387146	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.494	6.494	0.000	99	789293	10.0	10.2	
54 Cyclohexane	56	6.598	6.598	0.000	92	1015126	10.0	11.4	
55 1,1-Dichloropropene	75	6.708	6.708	0.000	96	774473	10.0	10.5	
56 Carbon tetrachloride	117	6.714	6.714	0.000	89	690597	10.0	10.1	
57 Isobutyl alcohol	41	6.860	6.860	0.000	95	198217	500.0	586.0	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.940	6.940	0.000	98	69051	10.0	10.2	
59 Benzene	78	6.970	6.970	0.000	97	2189606	10.0	10.4	
60 1,2-Dichloroethane	62	7.043	7.043	0.000	97	456914	10.0	10.3	
63 Tert-amyl methyl ether	73	7.171	7.171	0.000	98	1061224	10.0	9.50	
* 64 Fluorobenzene (IS)	96	7.385	7.385	0.000	99	1758539	10.0	10.0	
65 n-Heptane	43	7.409	7.409	0.000	94	813786	10.0	12.4	
67 n-Butanol	56	7.775	7.775	0.000	92	288831	875.0	1159.7	
68 Trichloroethene	95	7.872	7.872	0.000	99	559451	10.0	10.4	
69 Methylcyclohexane	83	8.189	8.189	0.000	94	980097	10.0	11.2	
70 1,2-Dichloropropane	63	8.208	8.208	0.000	98	553328	10.0	10.9	
71 2-ethoxy-2-methyl butane	87	8.226	8.226	0.000	89	753862	10.0	9.83	
72 Methyl methacrylate	69	8.311	8.311	0.000	94	167437	10.0	8.13	
73 1,4-Dioxane	88	8.323	8.323	0.000	29	29961	500.0	622.1	M
74 Dibromomethane	93	8.323	8.323	0.000	97	200728	10.0	10.5	
76 Dichlorobromomethane	83	8.561	8.561	0.000	99	580402	10.0	10.3	
77 2-Nitropropane	41	8.829	8.829	0.000	97	251735	50.0	48.2	
79 1-Bromo-2-chloroethane	63	8.964	8.964	0.000	99	470135	10.0	10.7	
80 cis-1,3-Dichloropropene	75	9.134	9.134	0.000	96	721375	10.0	10.0	
82 4-Methyl-2-pentanone (MIBK)	43	9.317	9.317	0.000	97	2375291	100.0	112.3	
\$ 83 Toluene-d8 (Surr)	98	9.457	9.457	0.000	94	1729995	10.0	10.1	
84 Toluene	92	9.537	9.537	0.000	98	1342570	10.0	10.0	
85 trans-1,3-Dichloropropene	75	9.817	9.817	0.000	93	550300	10.0	10.5	
104 Ethyl methacrylate	69	9.890	9.890	0.000	91	405992	10.0	10.9	
106 1,1,2-Trichloroethane	97	10.030	10.030	0.000	90	289951	10.0	10.1	
107 Tetrachloroethene	166	10.116	10.116	0.000	98	601367	10.0	9.68	
108 1,3-Dichloropropane	76	10.195	10.195	0.000	91	532527	10.0	10.3	
109 2-Hexanone	43	10.250	10.250	0.000	98	1591256	100.0	99.4	
111 Chlorodibromomethane	129	10.414	10.414	0.000	90	364335	10.0	10.2	
112 Ethylene Dibromide	107	10.530	10.530	0.000	99	265694	10.0	10.2	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	87	1265488	10.0	10.0	
114 1-Chlorohexane	91	10.988	10.988	0.000	97	786170	10.0	9.49	
115 Chlorobenzene	112	11.000	11.000	0.000	94	1407211	10.0	9.82	
116 1,1,1,2-Tetrachloroethane	131	11.085	11.085	0.000	96	469051	10.0	9.93	
117 Ethylbenzene	91	11.091	11.091	0.000	99	2743020	10.0	10.4	
119 m-Xylene & p-Xylene	106	11.207	11.207	0.000	100	2064368	20.0	21.0	
120 o-Xylene	106	11.542	11.542	0.000	97	985038	10.0	10.5	
121 Styrene	104	11.561	11.561	0.000	95	1561590	10.0	10.8	
122 Bromoform	173	11.719	11.719	0.000	96	194297	10.0	9.84	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
123 Isopropylbenzene	105	11.853	11.853	0.000	96	2377837	10.0	10.5	
\$ 126 4-Bromofluorobenzene (Surr)	95	11.993	11.993	0.000	91	616916	10.0	9.84	
127 1,1,2,2-Tetrachloroethane	83	12.097	12.097	0.000	91	348497	10.0	10.5	
128 Bromobenzene	156	12.109	12.109	0.000	95	543058	10.0	9.91	
129 trans-1,4-Dichloro-2-butene	53	12.121	12.121	0.000	90	750282	100.0	89.4	
130 1,2,3-Trichloropropane	110	12.146	12.146	0.000	81	84859	10.0	10.5	
131 N-Propylbenzene	91	12.182	12.182	0.000	99	3226835	10.0	11.0	
132 2-Chlorotoluene	126	12.256	12.256	0.000	96	593921	10.0	10.2	
133 1,3,5-Trimethylbenzene	105	12.323	12.323	0.000	93	2204433	10.0	10.7	
134 4-Chlorotoluene	126	12.353	12.353	0.000	98	613020	10.0	10.2	
135 tert-Butylbenzene	134	12.566	12.566	0.000	93	489513	10.0	10.6	
136 Pentachloroethane	167	12.597	12.597	0.000	93	358440	10.0	10.7	
137 1,2,4-Trimethylbenzene	105	12.609	12.609	0.000	97	2229133	10.0	10.6	
138 sec-Butylbenzene	105	12.731	12.731	0.000	94	2894531	10.0	11.3	
139 1,3-Dichlorobenzene	146	12.829	12.829	0.000	98	1127246	10.0	10.4	
140 4-Isopropyltoluene	119	12.841	12.841	0.000	97	2448352	10.0	11.3	
* 141 1,4-Dichlorobenzene-d4	152	12.883	12.883	0.000	95	675974	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.902	12.902	0.000	94	1111591	10.0	9.69	
143 1,2,3-Trimethylbenzene	120	12.914	12.914	0.000	99	931110	10.0	9.73	
144 Benzyl chloride	126	12.981	12.981	0.000	99	137002	10.0	10.4	
145 p-Diethylbenzene	119	13.115	13.115	0.000	93	1465945	10.0	11.8	
146 n-Butylbenzene	92	13.133	13.133	0.000	97	1230057	10.0	12.6	
147 1,2-Dichlorobenzene	146	13.164	13.164	0.000	98	963530	10.0	10.3	
149 1,2-Dibromo-3-Chloropropane	155	13.713	13.713	0.000	85	41466	10.0	9.69	
150 1,3,5-Trichlorobenzene	180	13.835	13.835	0.000	98	841793	10.0	10.8	
151 1,2,4-Trichlorobenzene	180	14.255	14.255	0.000	94	651227	10.0	11.2	
152 Hexachlorobutadiene	225	14.341	14.341	0.000	96	341721	10.0	12.2	
153 Naphthalene	128	14.438	14.438	0.000	97	986638	10.0	10.6	
154 1,2,3-Trichlorobenzene	180	14.578	14.578	0.000	96	532365	10.0	10.5	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00166	Amount Added: 20.00	Units: uL	
MSV_LL_#2_826_00178	Amount Added: 20.00	Units: uL	
MSV_LL_GAS826_00270	Amount Added: 20.00	Units: uL	
MSV_LLcentISS_00016	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 08-May-2025 01:32:02

Chrom Revision: 2.3 18-Apr-2025 15:35:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X32.D

Injection Date: 07-May-2025 21:56:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: CCVIS VSTD10

Worklist Smp#: 3

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

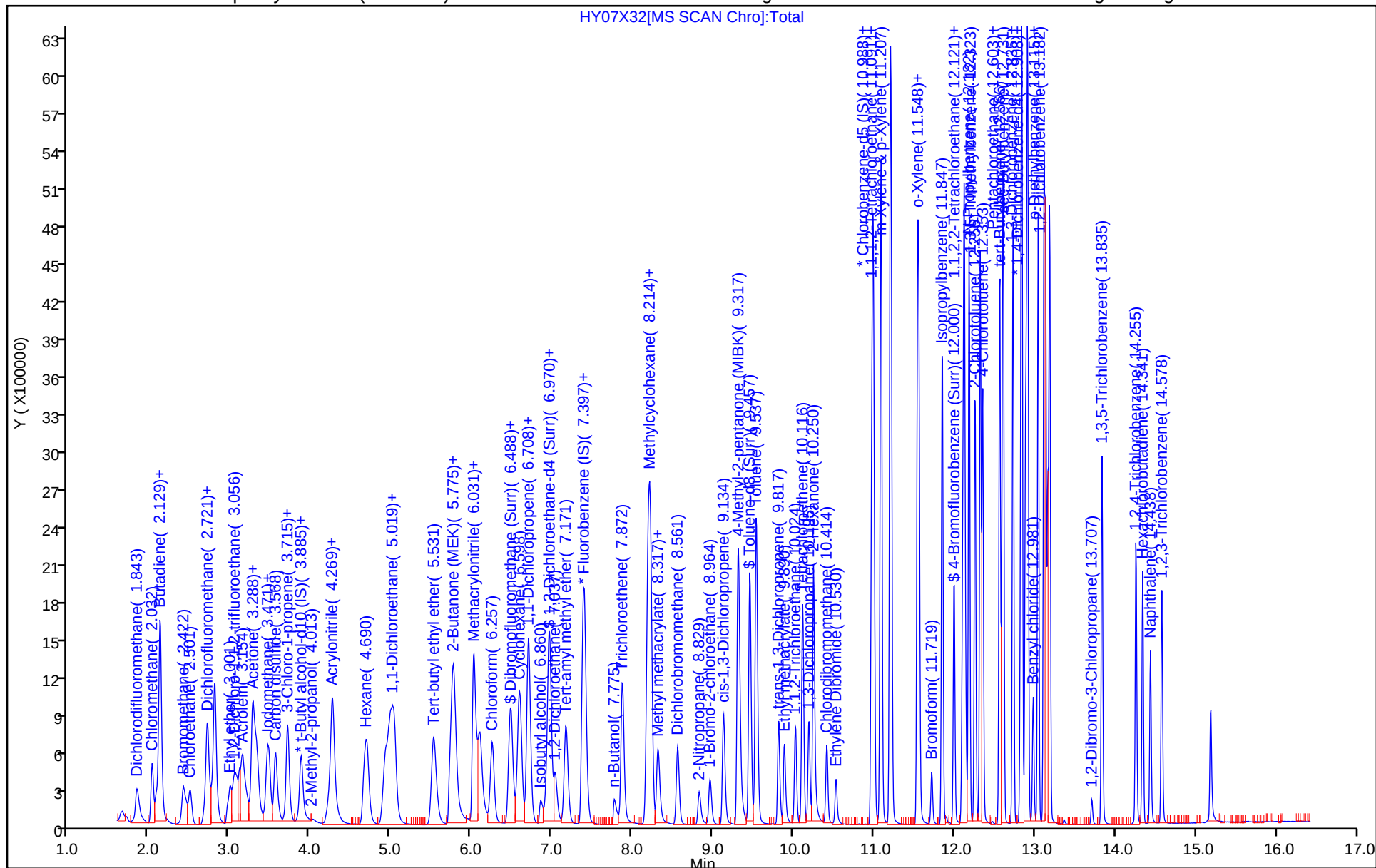
ALS Bottle#: 2

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X32.D

Injection Date: 07-May-2025 21:56:30

Instrument ID: 19094

Lims ID: CCVIS VSTD10

Client ID:

Operator ID: gaw91131

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: MSV_19094_25mL

Limit Group:

MSV - 8260C_D

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

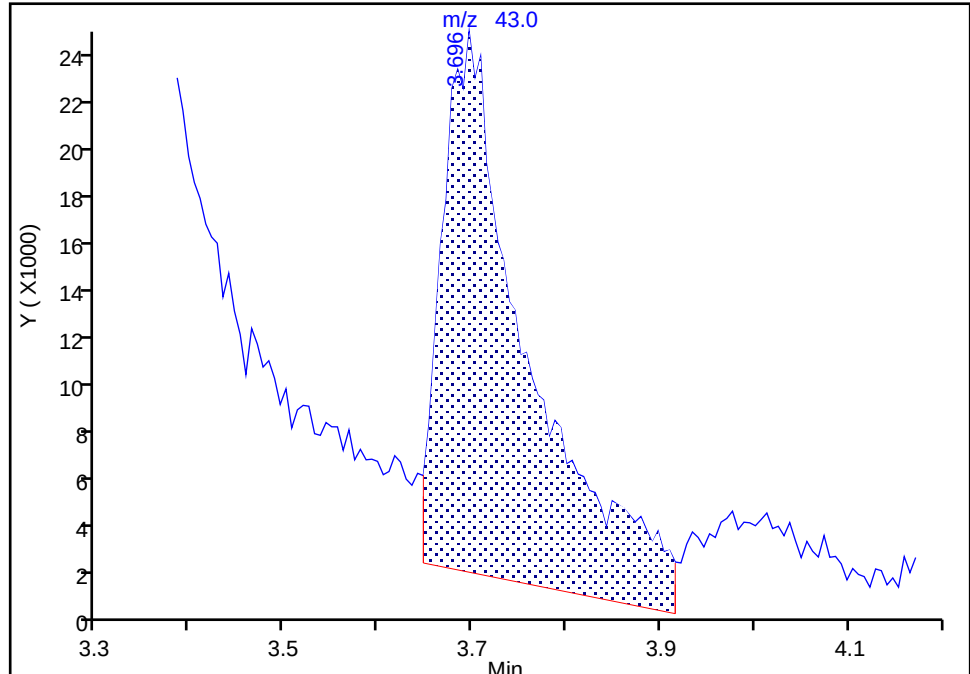
MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

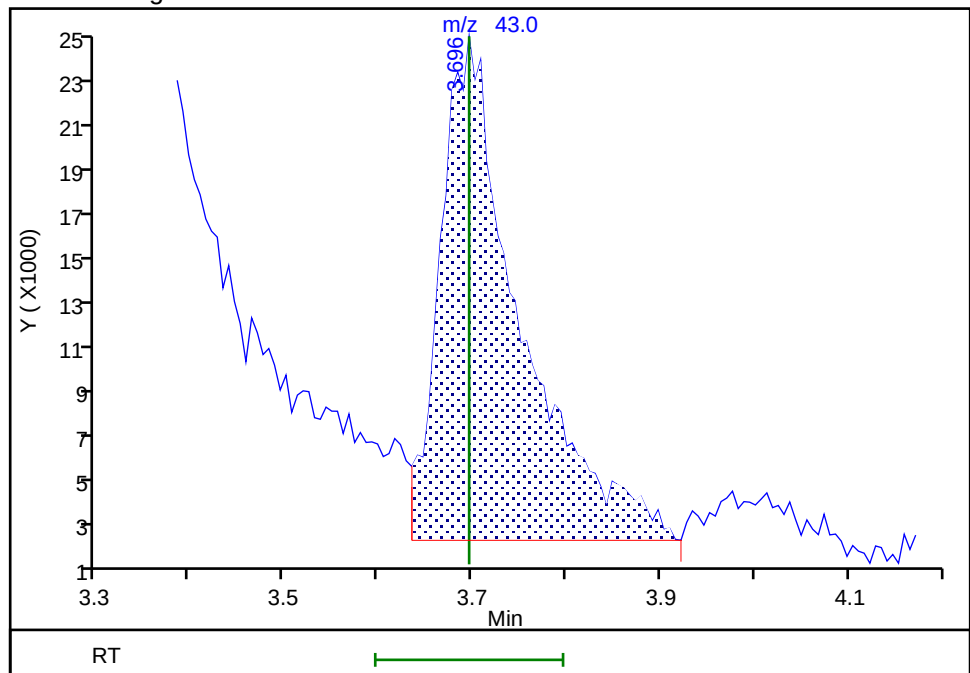
RT: 3.70
Area: 145286
Amount: 12.387884
Amount Units: ug/l

Processing Integration Results



RT: 3.70
Area: 130852
Amount: 11.202606
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 07-May-2025 22:42:26 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

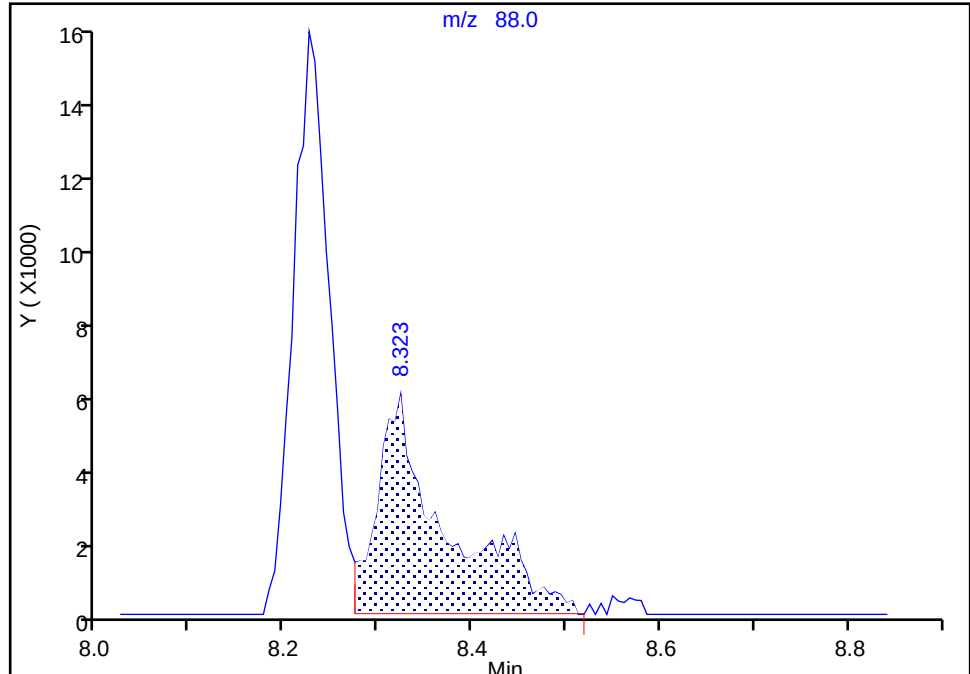
Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X32.D
Injection Date: 07-May-2025 21:56:30 Instrument ID: 19094
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

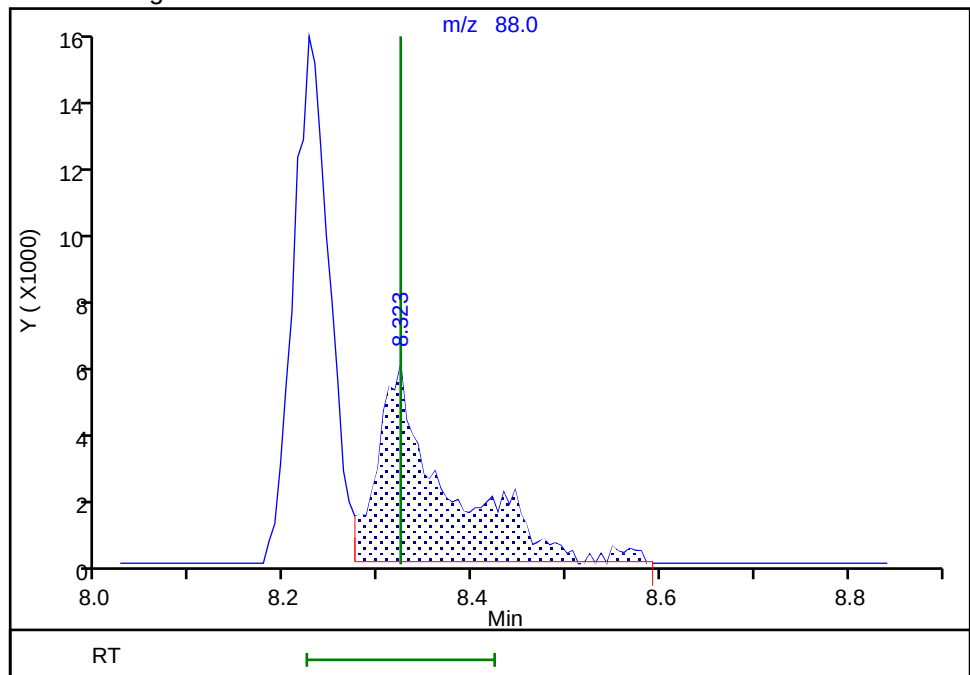
RT: 8.32
Area: 29221
Amount: 606.7477
Amount Units: ug/l

Processing Integration Results



RT: 8.32
Area: 29961
Amount: 622.1131
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 07-May-2025 22:47:53 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31T01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 31-Mar-2025 15:05:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0142485-001
Misc. Info.: BFB
Operator ID: ecr105096 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 10-Apr-2025 14:31:01 Calib Date: 31-Mar-2025 18:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1652

First Level Reviewer: N7YK

Date: 31-Mar-2025 15:16:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 166 BFB	95	5.032	5.032	0.000	86	203197	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MSV_V_BFB_00018

Amount Added: 1.00

Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31T01.D

Injection Date: 31-Mar-2025 15:05:30

Instrument ID: 19094

Lims ID: bfb

Client ID:

Operator ID: ecr105096

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

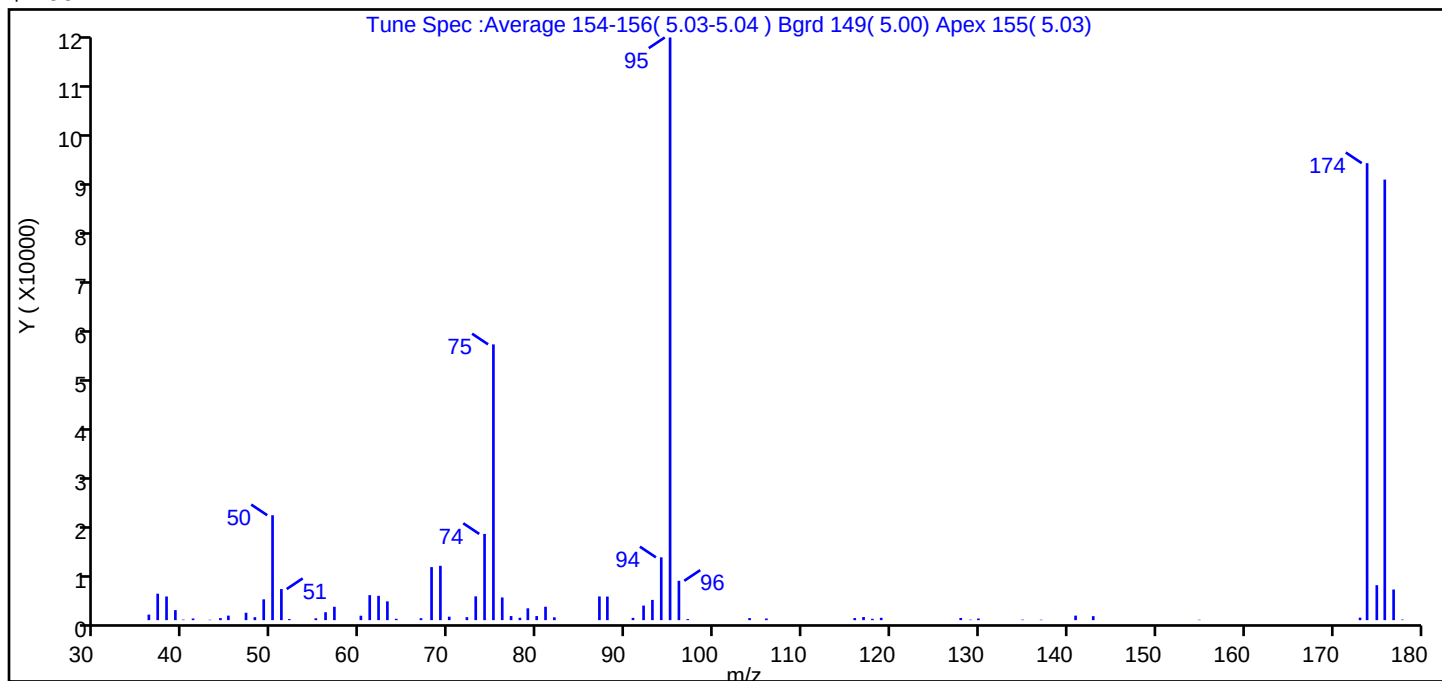
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

Tune Method: BFB Method 8260

\$ 166 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.0
75	30 to 60% of m/z 95	47.3
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	78.4
175	5 to 9% of m/z 174	6.0 (7.6)
176	Greater than 95% but less than 101% of m/z 174	75.6 (96.4)
177	5 to 9% of m/z 176	5.3 (7.0)

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31T01.D\MSV_19094_25mL.rsl\spectra.d
Injection Date: 31-Mar-2025 15:05:30
Spectrum: Tune Spec :Average 154-156(5.03-5.04) Bgrd 149(5.00) Apex 155(5.03)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 67

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1142	57.00	2751	79.00	2436	118.00	278
37.00	5441	60.00	910	80.00	839	119.00	485
38.00	4873	61.00	5139	81.00	2759	128.00	440
39.00	2061	62.00	5006	82.00	586	129.00	99
40.00	107	63.00	3867	87.00	4876	130.00	334
41.00	336	64.00	271	88.00	4855	135.00	103
43.00	83	67.00	400	91.00	468	137.00	91
44.00	423	68.00	10912	92.00	2997	141.00	932
45.00	930	69.00	11175	93.00	4163	143.00	821
47.00	1523	70.00	714	94.00	12918	155.00	86
48.00	609	72.00	610	95.00	119872	173.00	513
49.00	4281	73.00	4893	96.00	8096	174.00	94016
50.00	21584	74.00	17736	97.00	215	175.00	7190
51.00	6399	75.00	56736	104.00	424	176.00	90632
52.00	219	76.00	4665	106.00	334	177.00	6301
55.00	385	77.00	837	116.00	427	178.00	116
56.00	1633	78.00	492	117.00	643		

Report Date: 10-Apr-2025 14:31:01

Chrom Revision: 2.3 08-Apr-2025 13:07:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31T01.D

Injection Date: 31-Mar-2025 15:05:30

Instrument ID: 19094

Operator ID: ecr105096

Lims ID: bfb

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

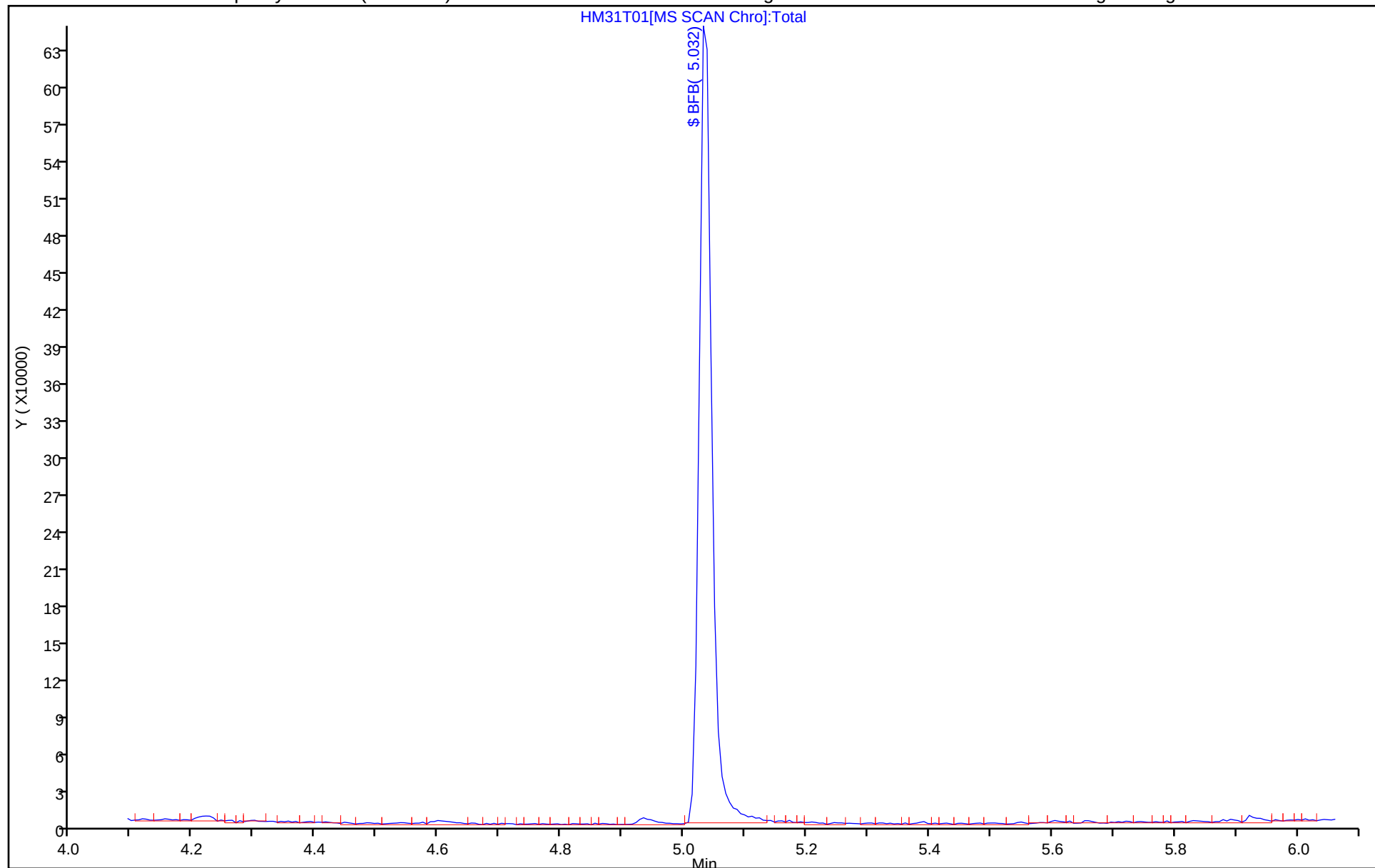
ALS Bottle#: 1

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07T32.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 07-May-2025 21:17:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0146489-001
Misc. Info.: BFB
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-May-2025 01:32:00 Calib Date: 31-Mar-2025 18:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1716

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 166 BFB	95	5.032	5.032	0.000	88	208599	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MSV_V_BFB_00018

Amount Added: 1.00

Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07T32.D

Injection Date: 07-May-2025 21:17:30

Instrument ID: 19094

Lims ID: BFB

Client ID:

Operator ID: gaw91131

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

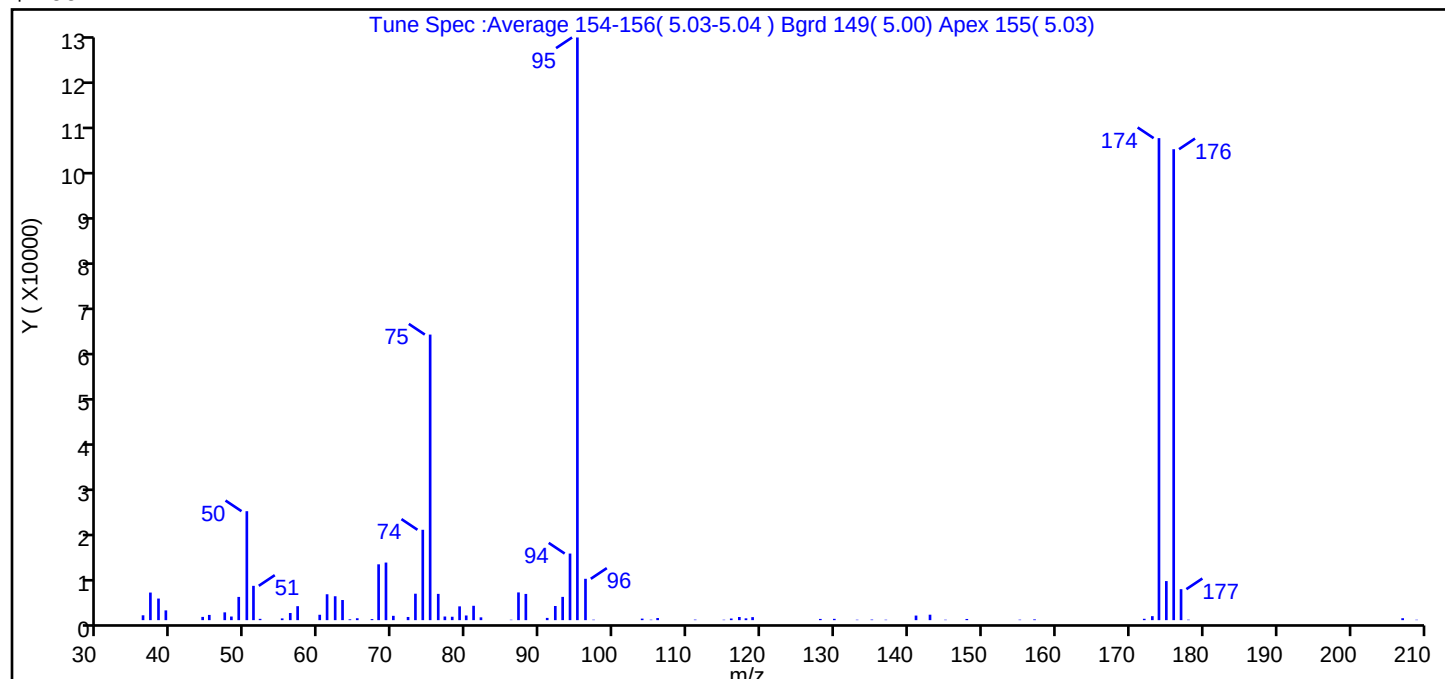
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

Tune Method: BFB Method 8260

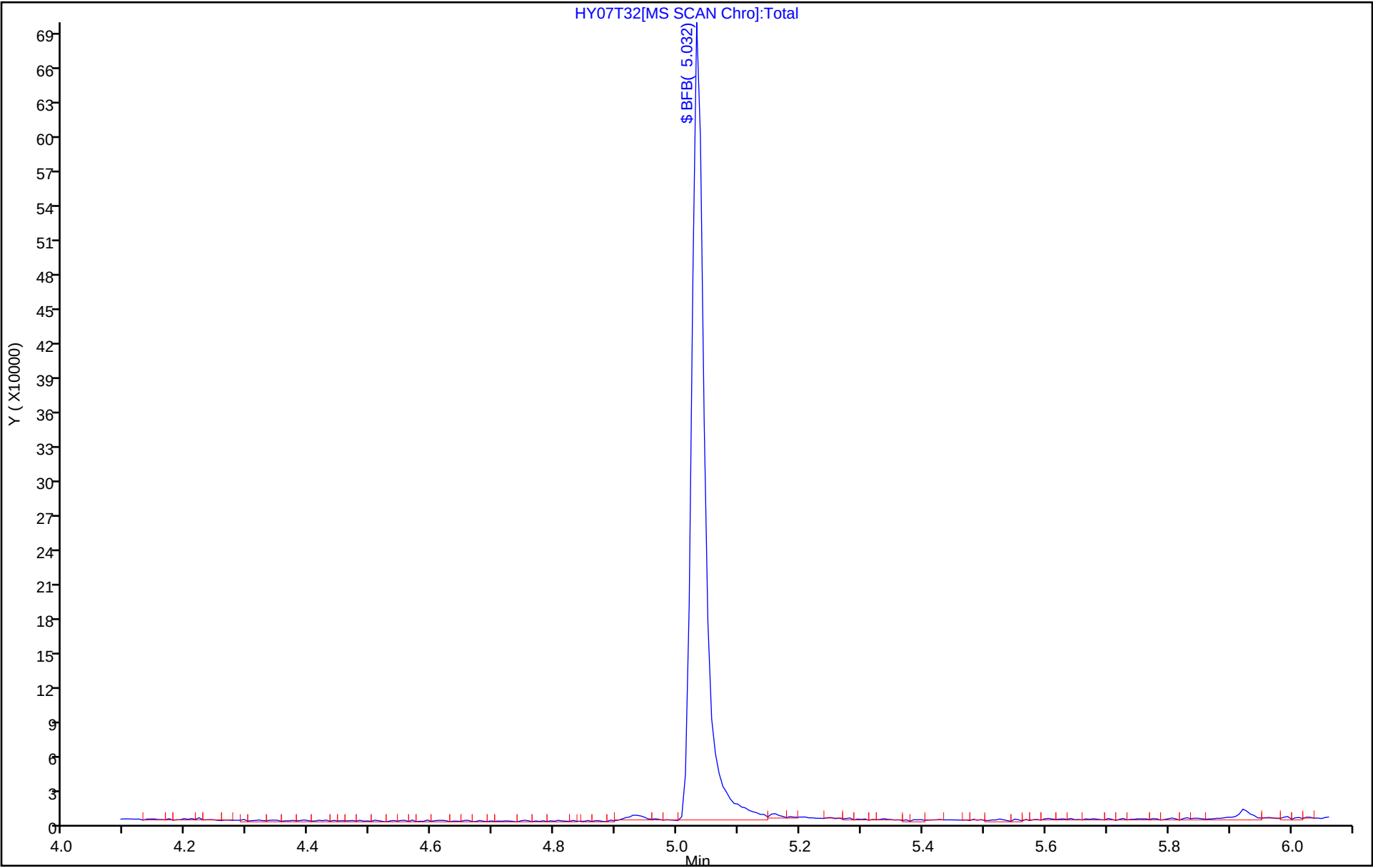
\$ 166 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.7
75	30 to 60% of m/z 95	49.0
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.7 (0.8)
174	50 to 120% of m/z 95	82.7
175	5 to 9% of m/z 174	6.7 (8.1)
176	Greater than 95% but less than 101% of m/z 174	80.8 (97.7)
177	5 to 9% of m/z 176	5.3 (6.6)

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07T32.D\MSV_19094_25mL.rslt\spectra.d
 Injection Date: 07-May-2025 21:17:30
 Spectrum: Tune Spec :Average 154-156(5.03-5.04) Bgrd 149(5.00) Apex 155(5.03)
 Base Peak: 95.00
 Minimum % Base Peak: 0
 Number of Points: 75

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1012	64.00	175	88.00	5475	133.00	88
37.00	5762	65.00	394	91.00	468	135.00	118
38.00	4509	67.00	220	92.00	2953	137.00	87
39.00	2039	68.00	11658	93.00	4858	141.00	957
44.00	677	69.00	12025	94.00	13907	143.00	1138
45.00	1092	70.00	903	95.00	121688	145.00	86
47.00	1627	72.00	662	96.00	8635	148.00	246
48.00	756	73.00	5522	97.00	93	155.00	98
49.00	4851	74.00	18872	104.00	320	157.00	157
50.00	22752	75.00	59640	105.00	92	172.00	284
51.00	7166	76.00	5487	106.00	441	173.00	833
52.00	272	77.00	758	111.00	109	174.00	100664
55.00	361	78.00	709	115.00	86	175.00	8158
56.00	1489	79.00	2882	116.00	339	176.00	98352
57.00	2919	80.00	975	117.00	655	177.00	6471
60.00	1124	81.00	2997	118.00	376	178.00	97
61.00	5407	82.00	585	119.00	630	207.00	403
62.00	4990	86.00	84	128.00	254	209.00	83
63.00	4203	87.00	5790	130.00	272		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-219242-1

SDG No.:

Client Sample ID:

Lab Sample ID: MB 410-640992/6

Matrix: Water

Lab File ID: HY07X35.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 05/07/2025 22:58

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 640992

Units: ug/L

Preparation Batch No.:

Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.5
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-640992/6

Matrix: Water Lab File ID: HY07X35.D

Analysis Method: 8260D Date Collected: _____

Sample wt/vol: 25 (mL) Date Analyzed: 05/07/2025 22:58

Soil Aliquot Vol: _____ Dilution Factor: 1

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

Purge Volume: 25.0 (mL) Heated Purge: (Y/N) N pH: _____

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

Analysis Batch No.: 640992 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	ND		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

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)	100		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\19094\20250507-146489.b\HY07X35.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 07-May-2025 22:58:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0146489-006
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 01:32:01 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: JS6E

Date: 08-May-2025 00:00:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.800					ND	
2 Dichlorodifluoromethane	85		1.843					ND	
3 Chlorodifluoromethane	51		1.849					ND	
4 Dimethyl ether	45		1.898					ND	
5 Chloromethane	50		2.032					ND	
7 Butadiene	39		2.129					ND	7
6 Vinyl chloride	62		2.142					ND	
8 2-Chloro-1,1,1-Trifluoroethane	118		2.184					ND	
9 Bromomethane	94		2.422					ND	
10 Chloroethane	64		2.507					ND	
11 Dichlorofluoromethane	67		2.715					ND	
12 Trichlorofluoromethane	101		2.721					ND	
14 Ethyl ether	59		3.001					ND	
15 1,2-Dichloro-1,1,2-trifluoroethane	67		3.068					ND	
13 Ethanol	45		3.111					ND	
16 Acrolein	56		3.154					ND	
17 1,1-Dichloroethene	96		3.282					ND	
19 Acetone	43		3.282					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101		3.324					ND	
21 Iodomethane	142		3.465					ND	
22 Ethyl bromide	108		3.489					ND	
23 Carbon disulfide	76		3.568					ND	7
24 Methyl acetate	43		3.696					ND	
26 3-Chloro-1-propene	41		3.715					ND	
25 Acetonitrile	41		3.794					ND	
27 Methylene Chloride	84		3.885					ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.897	3.928	-0.031	97	54376	50.0	50.0	
29 2-Methyl-2-propanol	59		4.032					ND	
31 Acrylonitrile	53		4.233					ND	
32 Methyl tert-butyl ether	73		4.263					ND	
33 trans-1,2-Dichloroethene	96		4.275					ND	
34 Hexane	57		4.696					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43		4.915					ND	
36 1,1-Dichloroethane	63		4.928					ND	
37 Isopropyl ether	45		4.989					ND	
38 2-Chloro-1,3-butadiene	53		5.037					ND	
40 Tert-butyl ethyl ether	59		5.531					ND	
41 2-Butanone (MEK)	43		5.732					ND	
42 cis-1,2-Dichloroethene	96		5.769					ND	
43 2,2-Dichloropropane	77		5.781					ND	
44 Propionitrile	54		5.818					ND	
45 Ethyl acetate	43		5.824					ND	
47 Methacrylonitrile	67		6.031					ND	
48 Chlorobromomethane	128		6.104					ND	
49 Tetrahydrofuran	71		6.123					ND	
S 46 1,2-Dichloroethene, Total	100		6.155					ND	7
50 Chloroform	83		6.257					ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.476	6.476	0.000	93	361869	10.0	10.0	
51 Methyl acrylate	55		6.482					ND	
53 1,1,1-Trichloroethane	97		6.494					ND	
54 Cyclohexane	56		6.598					ND	
55 1,1-Dichloropropene	75		6.708					ND	
56 Carbon tetrachloride	117		6.714					ND	
57 Isobutyl alcohol	41		6.860					ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.940	6.940	0.000	46	66508	10.0	10.4	
59 Benzene	78		6.970					ND	7
60 1,2-Dichloroethane	62		7.043					ND	
61 Isopropyl acetate	43		7.067					ND	
63 Tert-amyl methyl ether	73		7.171					ND	
62 1-Chlorobutane	56	7.391	7.250	0.141	34	7313		NC	
* 64 Fluorobenzene (IS)	96	7.385	7.385	0.000	98	1662723	10.0	10.0	
65 n-Heptane	43		7.409					ND	U
67 n-Butanol	56		7.775					ND	
66 t-Amyl alcohol	73		7.842					ND	
68 Trichloroethene	95		7.872					ND	
69 Methylcyclohexane	83		8.189					ND	
70 1,2-Dichloropropane	63		8.208					ND	
71 2-ethoxy-2-methyl butane	87		8.226					ND	
72 Methyl methacrylate	69		8.311					ND	
73 1,4-Dioxane	88		8.323					ND	
74 Dibromomethane	93		8.323					ND	
75 n-Propyl acetate	61		8.403					ND	
76 Dichlorobromomethane	83		8.561					ND	
77 2-Nitropropane	41		8.829					ND	
78 2-Chloroethyl vinyl ether	63		8.951					ND	
79 1-Bromo-2-chloroethane	63		8.964					ND	
80 cis-1,3-Dichloropropene	75		9.134					ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.317					ND	
81 Chloroacetonitrile	75		9.427					ND	
\$ 83 Toluene-d8 (Surr)	98	9.463	9.457	0.006	94	1600409	10.0	9.95	
84 Toluene	92		9.537					ND	
85 trans-1,3-Dichloropropene	75		9.817					ND	
104 Ethyl methacrylate	69		9.890					ND	
106 1,1,2-Trichloroethane	97		10.030					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 105 1,3-Dichloropropene, Total	100		10.060					ND	7
107 Tetrachloroethene	166		10.116					ND	
108 1,3-Dichloropropane	76		10.195					ND	
109 2-Hexanone	43		10.250					ND	
110 n-Butyl acetate	43		10.390					ND	
111 Chlorodibromomethane	129		10.414					ND	
112 Ethylene Dibromide	107		10.530					ND	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	87	1188980	10.0	10.0	
114 1-Chlorohexane	91		10.988					ND	7
115 Chlorobenzene	112		11.000					ND	
116 1,1,1,2-Tetrachloroethane	131		11.085					ND	
117 Ethylbenzene	91		11.091					ND	
119 m-Xylene & p-Xylene	106		11.207					ND	
S 118 Xylenes, Total	106		11.245					ND	7
120 o-Xylene	106		11.542					ND	
121 Styrene	104		11.561					ND	
122 Bromoform	173		11.719					ND	
123 Isopropylbenzene	105		11.853					ND	
124 cis-1,4-Dichloro-2-butene	88		11.902					ND	U
125 Cyclohexanone	55		11.932					ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.000	11.993	0.007	90	559828	10.0	9.51	
127 1,1,2,2-Tetrachloroethane	83		12.097					ND	
128 Bromobenzene	156		12.109					ND	
129 trans-1,4-Dichloro-2-butene	53		12.121					ND	
130 1,2,3-Trichloropropane	110		12.146					ND	
131 N-Propylbenzene	91		12.182					ND	
132 2-Chlorotoluene	126		12.256					ND	
133 1,3,5-Trimethylbenzene	105		12.323					ND	
134 4-Chlorotoluene	126		12.353					ND	
135 tert-Butylbenzene	134		12.566					ND	
136 Pentachloroethane	167		12.597					ND	
137 1,2,4-Trimethylbenzene	105		12.609					ND	
138 sec-Butylbenzene	105		12.731					ND	7
139 1,3-Dichlorobenzene	146		12.829					ND	
140 4-Isopropyltoluene	119		12.841					ND	7
* 141 1,4-Dichlorobenzene-d4	152	12.890	12.883	0.007	95	619096	10.0	10.0	
142 1,4-Dichlorobenzene	146		12.902					ND	
143 1,2,3-Trimethylbenzene	120		12.914					ND	7
144 Benzyl chloride	126		12.981					ND	
145 p-Diethylbenzene	119		13.115					ND	U
146 n-Butylbenzene	92		13.133					ND	
147 1,2-Dichlorobenzene	146		13.164					ND	
148 Hexachloroethane	201		13.682					ND	
149 1,2-Dibromo-3-Chloropropane	155		13.713					ND	
150 1,3,5-Trichlorobenzene	180		13.835					ND	
151 1,2,4-Trichlorobenzene	180		14.255					ND	7
152 Hexachlorobutadiene	225	14.347	14.341	0.006	86	2425		0.0947	
153 Naphthalene	128		14.438					ND	
154 1,2,3-Trichlorobenzene	180		14.578					ND	7
155 tert-Butyl Formate	1		0.000					ND	
156 Dodecane	57		0.000					ND	
157 Pentane	43		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
158 1,1-Dichloroacetone	1		0.000					ND	
159 n-Decane	57		0.000					ND	
160 1-Bromo-3-Chloropropane	1		0.000					ND	
161 1-Chloropropane	1		0.000					ND	
162 Propene oxide	1		0.000					ND	
163 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
164 Methylal	1		0.000					ND	
165 2-Bromo-1-chloropropane	1		0.000					ND	
209 1,1-Dichloro-1-fluoroethane TIC1			0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-May-2025 01:32:37

Chrom Revision: 2.3 18-Apr-2025 15:35:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X35.D

Injection Date: 07-May-2025 22:58:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

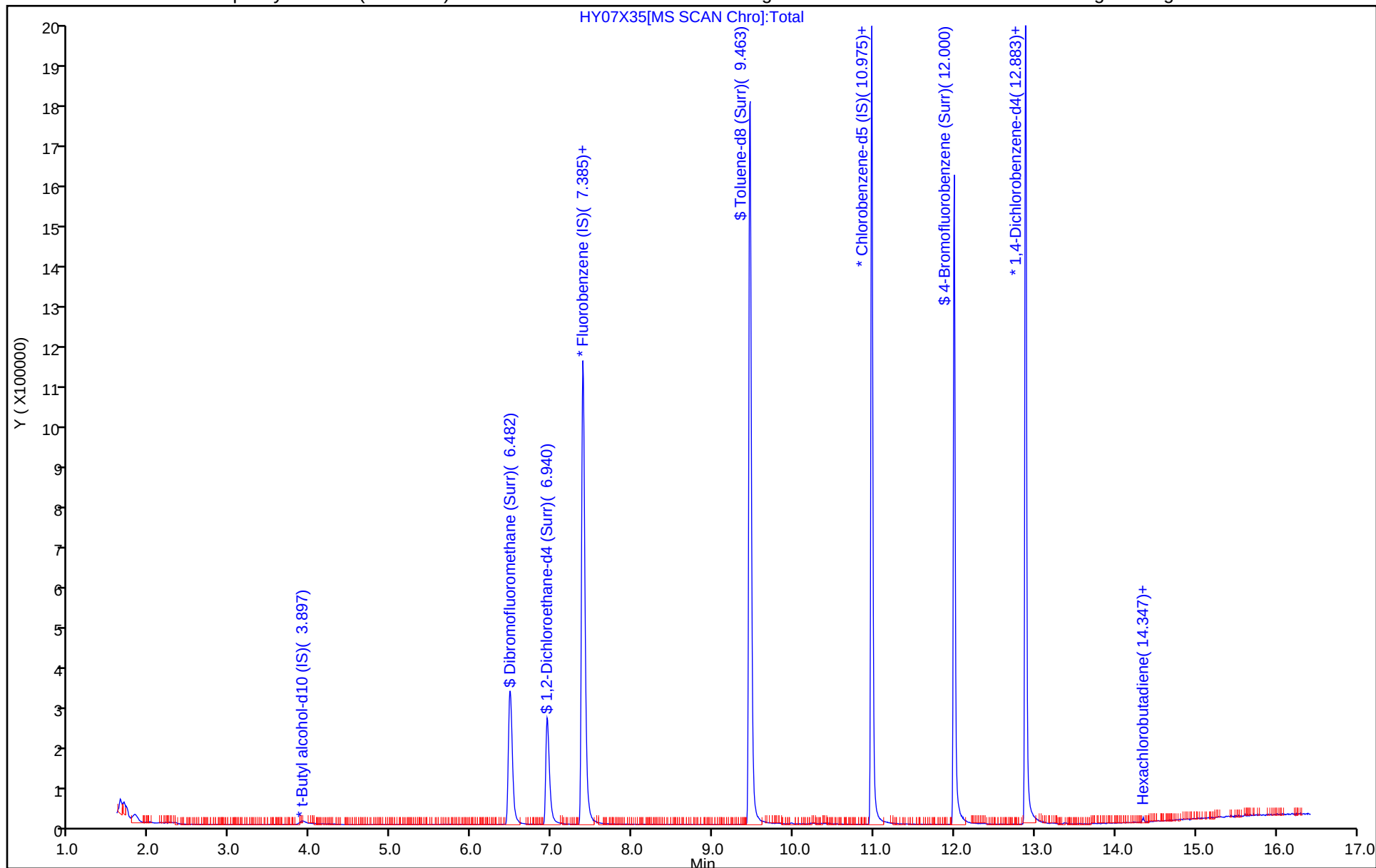
ALS Bottle#: 5

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X35.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 07-May-2025 22:58:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0146489-006
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-May-2025 01:32:01 Calib Date: 31-Mar-2025 18:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1716

First Level Reviewer: JS6E

Date: 08-May-2025 00:00:00

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.0	100.21
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.01
\$ 83 Toluene-d8 (Surr)	10.0	9.95	99.49
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.51	95.08

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-219242-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 410-640992/4

Matrix: Water

Lab File ID: HY07X33.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 05/07/2025 22:17

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 640992

Units: ug/L

Preparation Batch No.:

Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.99		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.18		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.23		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.24		0.50	0.080
75-34-3	1,1-Dichloroethane	5.63		0.50	0.10
75-35-4	1,1-Dichloroethene	5.53		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.03		0.50	0.080
107-06-2	1,2-Dichloroethane	5.29		0.50	0.070
78-87-5	1,2-Dichloropropane	5.52		0.50	0.10
78-93-3	2-Butanone (MEK)	73.2		5.0	1.0
591-78-6	2-Hexanone	61.0		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	68.3		5.0	1.0
67-64-1	Acetone	65.2		5.0	1.5
71-43-2	Benzene	5.22		0.50	0.10
74-97-5	Bromochloromethane	5.35		0.50	0.080
75-27-4	Bromodichloromethane	5.21		0.50	0.080
75-25-2	Bromoform	4.83		1.0	0.30
74-83-9	Bromomethane	4.55		0.50	0.10
75-15-0	Carbon disulfide	4.78		1.0	0.10
56-23-5	Carbon tetrachloride	5.05		0.50	0.10
108-90-7	Chlorobenzene	5.09		0.50	0.070
75-00-3	Chloroethane	5.13		0.50	0.10
67-66-3	Chloroform	5.34		0.50	0.090
74-87-3	Chloromethane	4.39		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	5.00		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.68		0.50	0.10
124-48-1	Dibromochloromethane	5.03		0.50	0.080
100-41-4	Ethylbenzene	5.23		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.59		0.50	0.080
75-09-2	Methylene Chloride	5.53		0.50	0.20
100-42-5	Styrene	5.41		0.50	0.070
127-18-4	Tetrachloroethene	4.94		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-640992/4

Matrix: Water Lab File ID: HY07X33.D

Analysis Method: 8260D Date Collected: _____

Sample wt/vol: 25 (mL) Date Analyzed: 05/07/2025 22:17

Soil Aliquot Vol: _____ Dilution Factor: 1

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

Purge Volume: 25.0 (mL) Heated Purge: (Y/N) N pH: _____

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

Analysis Batch No.: 640992 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	5.24		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	5.59		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.13		0.50	0.080
79-01-6	Trichloroethene	5.13		0.50	0.080
75-01-4	Vinyl chloride	4.52		0.50	0.10
1330-20-7	Xylenes, Total	15.8		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		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\19094\20250507-146489.b\HY07X33.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 07-May-2025 22:17:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0146489-004
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 01:32:01 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: JS6E

Date: 07-May-2025 23:03:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.843	1.843	0.000	99	248919	5.00	4.26	
5 Chloromethane	50	2.032	2.032	0.000	99	362920	5.00	4.39	
7 Butadiene	39	2.123	2.129	-0.006	91	409783	5.00	5.48	
6 Vinyl chloride	62	2.135	2.142	-0.007	98	326158	5.00	4.52	
9 Bromomethane	94	2.422	2.422	0.000	89	223382	5.00	4.55	
10 Chloroethane	64	2.501	2.507	-0.006	100	207892	5.00	5.13	
11 Dichlorofluoromethane	67	2.715	2.715	0.000	97	535178	5.00	4.63	
12 Trichlorofluoromethane	101	2.715	2.721	-0.006	47	387628	5.00	4.54	
15 1,2-Dichloro-1,1,2-trifluoroethane	67	3.056	3.068	-0.012	95	318506	5.00	5.01	
17 1,1-Dichloroethene	96	3.282	3.282	0.000	97	225801	5.00	5.53	
19 Acetone	43	3.324	3.282	0.042	91	236402	62.5	65.2	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.324	3.324	0.000	93	214128	5.00	4.75	
21 Iodomethane	142	3.458	3.465	-0.007	99	371777	5.00	4.74	
23 Carbon disulfide	76	3.562	3.568	-0.006	99	626448	5.00	4.78	
24 Methyl acetate	43	3.702	3.696	0.006	27	58680	5.00	5.29	M
26 3-Chloro-1-propene	41	3.714	3.715	-0.001	93	408009	5.00	4.78	
27 Methylene Chloride	84	3.885	3.885	0.000	94	237451	5.00	5.53	
* 28 t-Butyl alcohol-d10 (IS)	65	3.897	3.928	-0.031	36	49352	50.0	50.0	
29 2-Methyl-2-propanol	59	4.037	4.032	0.005	95	53838	50.0	53.5	
31 Acrylonitrile	53	4.226	4.233	-0.007	97	144830	25.0	24.0	
32 Methyl tert-butyl ether	73	4.251	4.263	-0.012	96	435467	5.00	4.59	
33 trans-1,2-Dichloroethene	96	4.275	4.275	0.000	97	255450	5.00	5.59	
34 Hexane	57	4.690	4.696	-0.006	93	359356	5.00	5.20	
36 1,1-Dichloroethane	63	4.928	4.928	0.000	96	514644	5.00	5.63	
37 Isopropyl ether	45	4.982	4.989	-0.007	96	807274	5.00	5.12	
38 2-Chloro-1,3-butadiene	53	5.037	5.037	0.000	91	398612	5.00	4.97	
40 Tert-butyl ethyl ether	59	5.525	5.531	-0.006	99	653411	5.00	4.67	
41 2-Butanone (MEK)	43	5.732	5.732	0.000	100	501376	62.5	73.2	
42 cis-1,2-Dichloroethene	96	5.769	5.769	0.000	84	272731	5.00	5.00	
43 2,2-Dichloropropane	77	5.787	5.781	0.006	86	383601	5.00	5.04	
44 Propionitrile	54	5.854	5.818	0.036	97	56879	37.5	35.0	
47 Methacrylonitrile	67	6.031	6.031	0.000	93	344009	37.5	37.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
48 Chlorobromomethane	128	6.104	6.104	0.000	97	100230	5.00	5.35	
49 Tetrahydrofuran	71	6.122	6.123	-0.001	81	56131	25.0	23.8	
50 Chloroform	83	6.257	6.257	0.000	93	455107	5.00	5.34	
\$ 52 Dibromofluoromethane (Surr)	113	6.476	6.476	0.000	94	387047	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.488	6.494	-0.006	99	399902	5.00	5.18	
54 Cyclohexane	56	6.592	6.598	-0.006	92	455194	5.00	5.10	
55 1,1-Dichloropropene	75	6.708	6.708	0.000	96	373365	5.00	5.06	
56 Carbon tetrachloride	117	6.708	6.714	-0.006	82	346251	5.00	5.05	
57 Isobutyl alcohol	41	6.872	6.860	0.012	93	52743	125.0	156.2	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.933	6.940	-0.007	81	70236	10.0	10.4	
59 Benzene	78	6.964	6.970	-0.006	98	1105998	5.00	5.22	
60 1,2-Dichloroethane	62	7.037	7.043	-0.006	97	234927	5.00	5.29	
63 Tert-amyl methyl ether	73	7.171	7.171	0.000	98	512859	5.00	4.58	
* 64 Fluorobenzene (IS)	96	7.384	7.385	-0.001	98	1761763	10.0	10.0	
65 n-Heptane	43	7.409	7.409	0.000	94	394017	5.00	6.01	
67 n-Butanol	56	7.805	7.775	0.030	89	67508	250.0	284.9	
68 Trichloroethene	95	7.878	7.872	0.006	99	277380	5.00	5.13	
69 Methylcyclohexane	83	8.189	8.189	0.000	93	447349	5.00	5.10	
70 1,2-Dichloropropane	63	8.214	8.208	0.006	98	281463	5.00	5.52	
71 2-ethoxy-2-methyl butane	87	8.226	8.226	0.000	90	355570	5.00	4.63	
72 Methyl methacrylate	69	8.317	8.311	0.006	90	82454	5.00	4.17	
73 1,4-Dioxane	88	8.335	8.323	0.012	28	9985	125.0	207.7	
74 Dibromomethane	93	8.323	8.323	0.000	96	99020	5.00	5.18	
76 Dichlorobromomethane	83	8.561	8.561	0.000	99	293834	5.00	5.21	
77 2-Nitropropane	41	8.829	8.829	0.000	97	22365	5.00	4.29	M
79 1-Bromo-2-chloroethane	63	8.963	8.964	-0.001	99	234498	5.00	5.33	
80 cis-1,3-Dichloropropene	75	9.134	9.134	0.000	96	338794	5.00	4.68	
82 4-Methyl-2-pentanone (MIBK)	43	9.317	9.317	0.000	97	1441691	62.5	68.3	
\$ 83 Toluene-d8 (Surr)	98	9.457	9.457	0.000	94	1733715	10.0	10.2	
84 Toluene	92	9.536	9.537	-0.001	98	696085	5.00	5.24	
85 trans-1,3-Dichloropropene	75	9.817	9.817	0.000	93	265765	5.00	5.13	
104 Ethyl methacrylate	69	9.890	9.890	0.000	91	186824	5.00	5.09	
106 1,1,2-Trichloroethane	97	10.024	10.030	-0.006	90	149276	5.00	5.24	
107 Tetrachloroethene	166	10.116	10.116	0.000	98	303619	5.00	4.94	
108 1,3-Dichloropropane	76	10.195	10.195	0.000	91	264925	5.00	5.16	
109 2-Hexanone	43	10.250	10.250	0.000	97	964440	62.5	61.0	
111 Chlorodibromomethane	129	10.414	10.414	0.000	91	177581	5.00	5.03	
112 Ethylene Dibromide	107	10.530	10.530	0.000	99	129729	5.00	5.03	
* 113 Chlorobenzene-d5 (IS)	117	10.969	10.975	-0.006	87	1251355	10.0	10.0	
114 1-Chlorohexane	91	10.987	10.988	-0.001	97	373064	5.00	4.55	
115 Chlorobenzene	112	11.000	11.000	0.000	93	721656	5.00	5.09	
116 1,1,1,2-Tetrachloroethane	131	11.085	11.085	0.000	96	233196	5.00	4.99	
117 Ethylbenzene	91	11.091	11.091	0.000	99	1358428	5.00	5.23	
119 m-Xylene & p-Xylene	106	11.207	11.207	0.000	100	1027423	10.0	10.6	
120 o-Xylene	106	11.542	11.542	0.000	98	486061	5.00	5.23	
121 Styrene	104	11.560	11.561	-0.001	95	770504	5.00	5.41	
122 Bromoform	173	11.719	11.719	0.000	97	94267	5.00	4.83	
123 Isopropylbenzene	105	11.847	11.853	-0.006	96	1340403	5.00	5.97	
\$ 126 4-Bromofluorobenzene (Surr)	95	11.993	11.993	0.000	91	603259	10.0	9.73	
127 1,1,2,2-Tetrachloroethane	83	12.097	12.097	0.000	93	170179	5.00	5.23	
128 Bromobenzene	156	12.109	12.109	0.000	96	274487	5.00	5.12	
129 trans-1,4-Dichloro-2-butene	53	12.127	12.121	0.006	93	170004	25.0	20.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
130 1,2,3-Trichloropropane	110	12.146	12.146	0.000	81	42431	5.00	5.36	
131 N-Propylbenzene	91	12.182	12.182	0.000	99	1595403	5.00	5.56	
132 2-Chlorotoluene	126	12.255	12.256	-0.001	96	292863	5.00	5.12	
133 1,3,5-Trimethylbenzene	105	12.322	12.323	-0.001	93	1098323	5.00	5.46	
134 4-Chlorotoluene	126	12.353	12.353	0.000	98	303336	5.00	5.18	
135 tert-Butylbenzene	134	12.566	12.566	0.000	94	227494	5.00	5.03	
137 1,2,4-Trimethylbenzene	105	12.609	12.609	0.000	98	1091692	5.00	5.30	
138 sec-Butylbenzene	105	12.731	12.731	0.000	94	1421677	5.00	5.69	
139 1,3-Dichlorobenzene	146	12.828	12.829	-0.001	98	558923	5.00	5.29	
140 4-Isopropyltoluene	119	12.841	12.841	0.000	97	1183240	5.00	5.59	
* 141 1,4-Dichlorobenzene-d4	152	12.883	12.883	0.000	95	661665	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.902	12.902	0.000	95	548530	5.00	4.88	
143 1,2,3-Trimethylbenzene	120	12.914	12.914	0.000	98	452200	5.00	4.83	
144 Benzyl chloride	126	12.981	12.981	0.000	99	62185	5.00	4.81	
145 p-Diethylbenzene	119	13.115	13.115	0.000	93	716457	5.00	5.89	
146 n-Butylbenzene	92	13.133	13.133	0.000	98	600446	5.00	6.29	
147 1,2-Dichlorobenzene	146	13.164	13.164	0.000	98	482014	5.00	5.28	
149 1,2-Dibromo-3-Chloropropane	155	13.712	13.713	-0.001	86	19318	5.00	4.67	
150 1,3,5-Trichlorobenzene	180	13.834	13.835	-0.001	97	412927	5.00	5.42	
151 1,2,4-Trichlorobenzene	180	14.261	14.255	0.006	94	326088	5.00	5.71	
152 Hexachlorobutadiene	225	14.340	14.341	-0.001	96	172723	5.00	6.31	
153 Naphthalene	128	14.438	14.438	0.000	97	478312	5.00	5.23	
154 1,2,3-Trichlorobenzene	180	14.578	14.578	0.000	96	257260	5.00	5.18	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00217

Amount Added: 12.50

Units: uL

MSV_QC_Gas826_00258

Amount Added: 12.50

Units: uL

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-May-2025 01:32:07

Chrom Revision: 2.3 18-Apr-2025 15:35:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X33.D

Injection Date: 07-May-2025 22:17:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

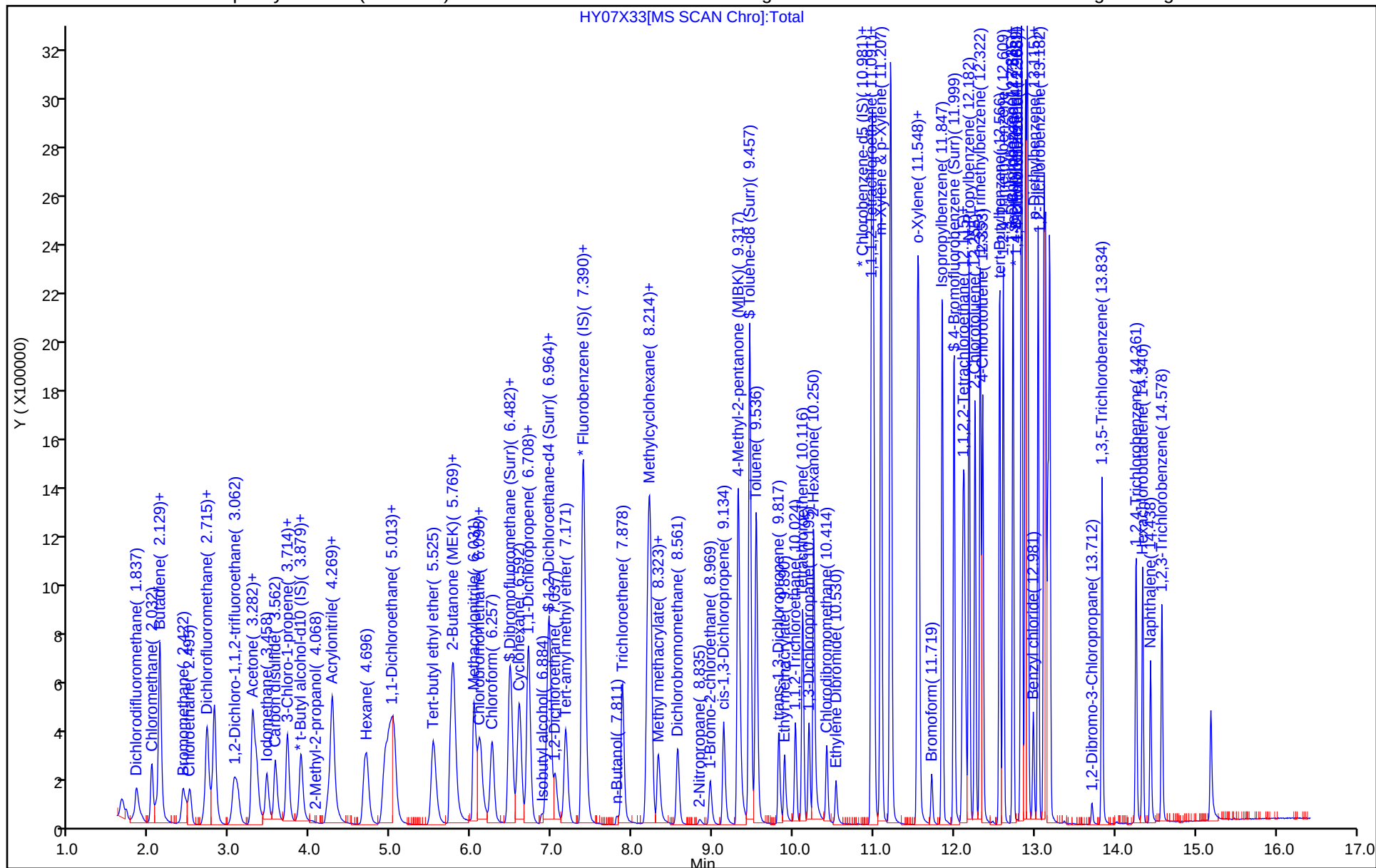
ALS Bottle#: 3

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X33.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 07-May-2025 22:17:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0146489-004
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-May-2025 01:32:01 Calib Date: 31-Mar-2025 18:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1716

First Level Reviewer: JS6E

Date: 07-May-2025 23:03:48

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.1	101.15
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.67
\$ 83 Toluene-d8 (Surr)	10.0	10.2	102.40
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.73	97.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-219242-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MS MS

Lab Sample ID: 410-219242-6 MS

Matrix: Water

Lab File ID: HY07X44.D

Analysis Method: 8260D

Date Collected: 04/24/2025 11:00

Sample wt/vol: 25 (mL)

Date Analyzed: 05/08/2025 02:08

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 640992

Units: ug/L

Preparation Batch No.:

Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.11		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.75		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.30		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.10		0.50	0.080
75-34-3	1,1-Dichloroethane	5.73		0.50	0.10
75-35-4	1,1-Dichloroethene	6.21		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.22		0.50	0.080
107-06-2	1,2-Dichloroethane	5.25		0.50	0.070
78-87-5	1,2-Dichloropropane	5.58		0.50	0.10
78-93-3	2-Butanone (MEK)	55.9		5.0	1.0
591-78-6	2-Hexanone	48.2		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	55.1		5.0	1.0
67-64-1	Acetone	55.6		5.0	1.5
71-43-2	Benzene	5.32		0.50	0.10
74-97-5	Bromochloromethane	5.24		0.50	0.080
75-27-4	Bromodichloromethane	5.36		0.50	0.080
75-25-2	Bromoform	5.06		1.0	0.30
74-83-9	Bromomethane	4.84		0.50	0.10
75-15-0	Carbon disulfide	5.18		1.0	0.10
56-23-5	Carbon tetrachloride	5.59		0.50	0.10
108-90-7	Chlorobenzene	5.21		0.50	0.070
75-00-3	Chloroethane	5.47		0.50	0.10
67-66-3	Chloroform	5.69		0.50	0.090
74-87-3	Chloromethane	4.39		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	5.91		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.80		0.50	0.10
124-48-1	Dibromochloromethane	5.25		0.50	0.080
100-41-4	Ethylbenzene	5.47		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.67		0.50	0.080
75-09-2	Methylene Chloride	5.57		0.50	0.20
100-42-5	Styrene	5.52		0.50	0.070
127-18-4	Tetrachloroethene	10.2		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-15-0/1-0 MS MS Lab Sample ID: 410-219242-6 MS

Matrix: Water Lab File ID: HY07X44.D

Analysis Method: 8260D Date Collected: 04/24/2025 11:00

Sample wt/vol: 25 (mL) Date Analyzed: 05/08/2025 02:08

Soil Aliquot Vol: _____ Dilution Factor: 1

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

Purge Volume: 25.0 (mL) Heated Purge: (Y/N) N pH: _____

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

Analysis Batch No.: 640992 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	5.33		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	5.65		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.20		0.50	0.080
79-01-6	Trichloroethene	6.64		0.50	0.080
75-01-4	Vinyl chloride	5.10		0.50	0.10
1330-20-7	Xylenes, Total	16.2		1.0	0.070

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)	102		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\19094\20250507-146489.b\HY07X44.D
 Lims ID: 410-219242-A-6 MS
 Client ID: HD-COD-SW-15-0/1-0 MS
 Sample Type: MS
 Inject. Date: 08-May-2025 02:08:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0146489-015
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 09:32:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.837	1.843	-0.006	99	301172	5.00	5.14	
5 Chloromethane	50	2.032	2.032	0.000	99	362844	5.00	4.39	
7 Butadiene	39	2.123	2.129	-0.006	93	461872	5.00	6.17	
6 Vinyl chloride	62	2.142	2.142	0.000	98	367752	5.00	5.10	
9 Bromomethane	94	2.416	2.422	-0.006	91	237680	5.00	4.84	
10 Chloroethane	64	2.501	2.507	-0.006	100	221865	5.00	5.47	
11 Dichlorofluoromethane	67	2.715	2.715	0.000	97	578768	5.00	5.00	
12 Trichlorofluoromethane	101	2.721	2.721	0.000	43	453764	5.00	5.31	
15 1,2-Dichloro-1,1,2-trifluoroethane	67	3.068	3.068	0.000	95	360593	5.00	5.66	
17 1,1-Dichloroethene	96	3.282	3.282	0.000	96	253784	5.00	6.21	
19 Acetone	43	3.306	3.282	0.024	99	261382	62.6	55.6	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.324	3.324	0.000	93	243753	5.00	5.40	
21 Iodomethane	142	3.458	3.465	-0.007	99	380850	5.00	4.85	
23 Carbon disulfide	76	3.562	3.568	-0.006	99	678774	5.00	5.18	
24 Methyl acetate	43	3.702	3.696	0.006	28	60683	5.00	4.31	
26 3-Chloro-1-propene	41	3.714	3.715	-0.001	93	423307	5.00	4.96	
27 Methylene Chloride	84	3.885	3.885	0.000	95	239330	5.00	5.57	
* 28 t-Butyl alcohol-d10 (IS)	65	3.934	3.928	0.006	53	63996	50.0	50.0	
29 2-Methyl-2-propanol	59	4.038	4.032	0.005	85	45794	50.0	35.1	
31 Acrylonitrile	53	4.226	4.233	-0.007	99	146121	25.0	19.0	
32 Methyl tert-butyl ether	73	4.257	4.263	-0.006	97	443727	5.00	4.67	
33 trans-1,2-Dichloroethene	96	4.275	4.275	0.000	98	258440	5.00	5.65	
34 Hexane	57	4.690	4.696	-0.006	94	414778	5.00	6.00	
36 1,1-Dichloroethane	63	4.921	4.928	-0.007	96	523933	5.00	5.73	
37 Isopropyl ether	45	4.982	4.989	-0.007	95	811754	5.00	5.14	
38 2-Chloro-1,3-butadiene	53	5.037	5.037	0.000	91	420351	5.00	5.23	
40 Tert-butyl ethyl ether	59	5.525	5.531	-0.006	99	655043	5.00	4.68	
41 2-Butanone (MEK)	43	5.732	5.732	0.000	100	495959	62.6	55.9	
42 cis-1,2-Dichloroethene	96	5.769	5.769	0.000	84	322998	5.00	5.91	
43 2,2-Dichloropropane	77	5.781	5.781	0.000	88	407598	5.00	5.35	
44 Propionitrile	54	5.842	5.818	0.024	96	47587	37.5	22.6	
47 Methacrylonitrile	67	6.037	6.031	0.006	93	347813	37.5	29.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
48 Chlorobromomethane	128	6.110	6.104	0.006	97	98378	5.00	5.24	
49 Tetrahydrofuran	71	6.122	6.123	-0.001	68	56720	25.0	18.7	
50 Chloroform	83	6.257	6.257	0.000	94	485470	5.00	5.69	
\$ 52 Dibromofluoromethane (Surr)	113	6.476	6.476	0.000	94	389183	10.0	10.2	
53 1,1,1-Trichloroethane	97	6.494	6.494	0.000	99	444244	5.00	5.75	
54 Cyclohexane	56	6.598	6.598	0.000	92	524262	5.00	5.87	
55 1,1-Dichloropropene	75	6.714	6.708	0.006	96	403735	5.00	5.47	
56 Carbon tetrachloride	117	6.714	6.714	0.000	84	383594	5.00	5.59	
57 Isobutyl alcohol	41	6.878	6.860	0.018	90	58327	125.1	133.2	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.939	6.940	-0.001	81	71432	10.0	10.5	
59 Benzene	78	6.970	6.970	0.000	97	1127213	5.00	5.32	
60 1,2-Dichloroethane	62	7.043	7.043	0.000	97	233486	5.00	5.25	
63 Tert-amyl methyl ether	73	7.171	7.171	0.000	98	513551	5.00	4.58	
* 64 Fluorobenzene (IS)	96	7.384	7.385	-0.001	98	1763317	10.0	10.0	
65 n-Heptane	43	7.409	7.409	0.000	94	455870	5.00	6.94	
67 n-Butanol	56	7.805	7.775	0.030	88	77326	250.2	253.7	
68 Trichloroethene	95	7.878	7.872	0.006	99	359345	5.00	6.64	
69 Methylcyclohexane	83	8.189	8.189	0.000	94	514228	5.00	5.86	
70 1,2-Dichloropropane	63	8.207	8.208	-0.001	92	284556	5.00	5.58	
71 2-ethoxy-2-methyl butane	87	8.226	8.226	0.000	89	362221	5.00	4.71	
72 Methyl methacrylate	69	8.323	8.311	0.012	92	73775	5.00	2.97	
73 1,4-Dioxane	88	8.342	8.323	0.019	28	8940	125.1	143.4	M
74 Dibromomethane	93	8.323	8.323	0.000	96	99907	5.00	5.22	
76 Dichlorobromomethane	83	8.567	8.561	0.006	99	302776	5.00	5.36	
77 2-Nitropropane	41	8.841	8.829	0.012	97	21097	5.00	3.12	
79 1-Bromo-2-chloroethane	63	8.969	8.964	0.005	99	235261	5.00	5.35	
80 cis-1,3-Dichloropropene	75	9.134	9.134	0.000	96	347631	5.00	4.80	
82 4-Methyl-2-pentanone (MIBK)	43	9.317	9.317	0.000	97	1508706	62.6	55.1	
\$ 83 Toluene-d8 (Surr)	98	9.457	9.457	0.000	94	1730324	10.0	10.2	
84 Toluene	92	9.536	9.537	-0.001	98	713173	5.00	5.33	
85 trans-1,3-Dichloropropene	75	9.817	9.817	0.000	93	271362	5.00	5.20	
104 Ethyl methacrylate	69	9.890	9.890	0.000	91	187510	5.00	5.07	
106 1,1,2-Trichloroethane	97	10.024	10.030	-0.006	91	146354	5.00	5.10	
107 Tetrachloroethene	166	10.116	10.116	0.000	99	632663	5.00	10.2	
108 1,3-Dichloropropane	76	10.195	10.195	0.000	92	273420	5.00	5.29	
109 2-Hexanone	43	10.250	10.250	0.000	97	981478	62.6	48.2	
111 Chlorodibromomethane	129	10.414	10.414	0.000	89	186349	5.00	5.25	
112 Ethylene Dibromide	107	10.530	10.530	0.000	98	135554	5.00	5.22	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	87	1259830	10.0	10.0	
114 1-Chlorohexane	91	10.987	10.988	-0.001	95	409077	5.00	4.96	
115 Chlorobenzene	112	11.000	11.000	0.000	93	744082	5.00	5.21	
116 1,1,1,2-Tetrachloroethane	131	11.085	11.085	0.000	97	240184	5.00	5.11	
117 Ethylbenzene	91	11.091	11.091	0.000	99	1428724	5.00	5.47	
119 m-Xylene & p-Xylene	106	11.207	11.207	0.000	100	1067340	10.0	10.9	
120 o-Xylene	106	11.542	11.542	0.000	98	499353	5.00	5.34	
121 Styrene	104	11.560	11.561	-0.001	95	792911	5.00	5.52	
122 Bromoform	173	11.719	11.719	0.000	97	99520	5.00	5.06	
123 Isopropylbenzene	105	11.853	11.853	0.000	96	1400052	5.00	6.20	
\$ 126 4-Bromofluorobenzene (Surr)	95	11.999	11.993	0.006	91	614438	10.0	9.85	
127 1,1,2,2-Tetrachloroethane	83	12.097	12.097	0.000	93	174306	5.00	5.30	
128 Bromobenzene	156	12.109	12.109	0.000	96	279855	5.00	5.17	
129 trans-1,4-Dichloro-2-butene	53	12.127	12.121	0.006	93	177510	25.0	16.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
130 1,2,3-Trichloropropane	110	12.146	12.146	0.000	83	43572	5.00	5.45	
131 N-Propylbenzene	91	12.182	12.182	0.000	99	1687317	5.00	5.82	
132 2-Chlorotoluene	126	12.255	12.256	-0.001	96	302702	5.00	5.24	
133 1,3,5-Trimethylbenzene	105	12.322	12.323	-0.001	93	1139327	5.00	5.61	
134 4-Chlorotoluene	126	12.353	12.353	0.000	98	300429	5.00	5.08	
135 tert-Butylbenzene	134	12.566	12.566	0.000	94	234543	5.00	5.14	
137 1,2,4-Trimethylbenzene	105	12.609	12.609	0.000	98	1134238	5.00	5.45	
138 sec-Butylbenzene	105	12.731	12.731	0.000	94	1516816	5.00	6.02	
139 1,3-Dichlorobenzene	146	12.828	12.829	-0.001	98	572707	5.00	5.37	
140 4-Isopropyltoluene	119	12.841	12.841	0.000	97	1235226	5.00	5.78	
* 141 1,4-Dichlorobenzene-d4	152	12.883	12.883	0.000	95	668145	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.902	12.902	0.000	95	562723	5.00	4.96	
143 1,2,3-Trimethylbenzene	120	12.914	12.914	0.000	99	455930	5.00	4.82	
144 Benzyl chloride	126	12.981	12.981	0.000	99	63839	5.00	4.89	
145 p-Diethylbenzene	119	13.115	13.115	0.000	93	750770	5.00	6.11	
146 n-Butylbenzene	92	13.133	13.133	0.000	98	625423	5.00	6.49	
147 1,2-Dichlorobenzene	146	13.164	13.164	0.000	98	490717	5.00	5.33	
149 1,2-Dibromo-3-Chloropropane	155	13.712	13.713	-0.001	83	20113	5.00	4.81	
150 1,3,5-Trichlorobenzene	180	13.834	13.835	-0.001	97	415913	5.00	5.41	
151 1,2,4-Trichlorobenzene	180	14.261	14.255	0.006	94	323097	5.00	5.61	
152 Hexachlorobutadiene	225	14.340	14.341	-0.001	96	178588	5.00	6.46	
153 Naphthalene	128	14.438	14.438	0.000	97	491006	5.00	5.32	
154 1,2,3-Trichlorobenzene	180	14.578	14.578	0.000	95	260274	5.00	5.19	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_QC_Gas826_00258

Amount Added: 5.38

Units: uL

MSV_LCS_VOC#1_00217

Amount Added: 5.38

Units: uL

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-May-2025 10:21:37

Chrom Revision: 2.3 18-Apr-2025 15:35:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X44.D

Injection Date: 08-May-2025 02:08:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-219242-A-6 MS

Worklist Smp#: 15

Client ID: HD-COD-SW-15-0/1-0 MS

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

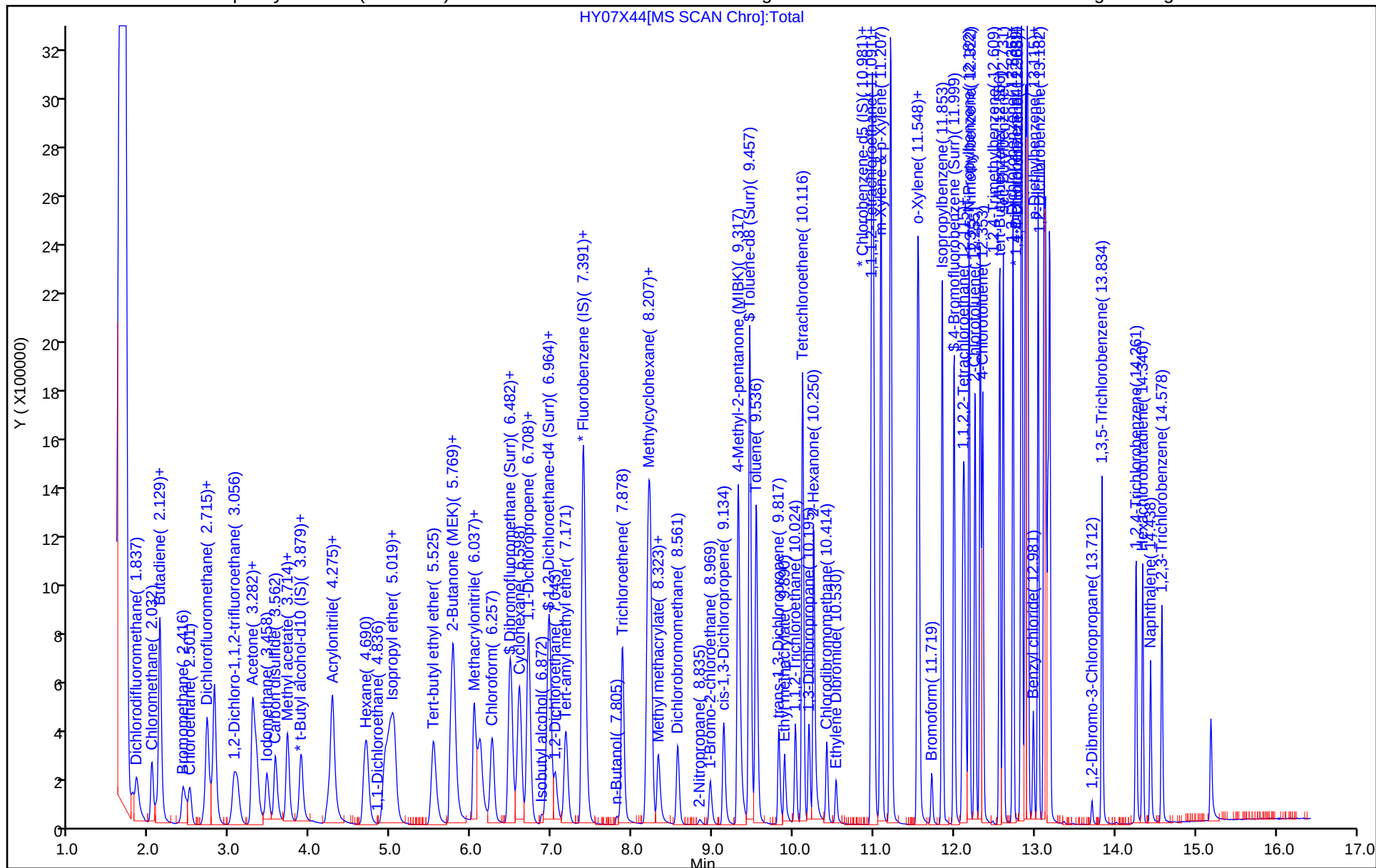
ALS Bottle#: 14

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X44.D
 Lims ID: 410-219242-A-6 MS
 Client ID: HD-COD-SW-15-0/1-0 MS
 Sample Type: MS
 Inject. Date: 08-May-2025 02:08:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0146489-015
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 09:32:56

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.2	101.62
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.34
\$ 83 Toluene-d8 (Surr)	10.0	10.2	101.52
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.85	98.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-219242-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MSD
MSD

Lab Sample ID: 410-219242-6 MSD

Matrix: Water

Lab File ID: HY07X45.D

Analysis Method: 8260D

Date Collected: 04/24/2025 11:00

Sample wt/vol: 25 (mL)

Date Analyzed: 05/08/2025 02:29

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 640992

Units: ug/L

Preparation Batch No.:

Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.30		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.97		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.25		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.30		0.50	0.080
75-34-3	1,1-Dichloroethane	5.95		0.50	0.10
75-35-4	1,1-Dichloroethene	6.29		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.34		0.50	0.080
107-06-2	1,2-Dichloroethane	5.57		0.50	0.070
78-87-5	1,2-Dichloropropane	5.84		0.50	0.10
78-93-3	2-Butanone (MEK)	71.8		5.0	1.0
591-78-6	2-Hexanone	60.9		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	67.5		5.0	1.0
67-64-1	Acetone	61.0		5.0	1.5
71-43-2	Benzene	5.50		0.50	0.10
74-97-5	Bromochloromethane	5.60		0.50	0.080
75-27-4	Bromodichloromethane	5.57		0.50	0.080
75-25-2	Bromoform	5.12		1.0	0.30
74-83-9	Bromomethane	4.85		0.50	0.10
75-15-0	Carbon disulfide	5.28		1.0	0.10
56-23-5	Carbon tetrachloride	5.69		0.50	0.10
108-90-7	Chlorobenzene	5.37		0.50	0.070
75-00-3	Chloroethane	5.59		0.50	0.10
67-66-3	Chloroform	5.81		0.50	0.090
74-87-3	Chloromethane	4.60		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	6.02		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.00		0.50	0.10
124-48-1	Dibromochloromethane	5.40		0.50	0.080
100-41-4	Ethylbenzene	5.63		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.72		0.50	0.080
75-09-2	Methylene Chloride	5.66		0.50	0.20
100-42-5	Styrene	5.76		0.50	0.070

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-15-0/1-0 MSD Lab Sample ID: 410-219242-6 MSD
MSD

Matrix: Water Lab File ID: HY07X45.D

Analysis Method: 8260D Date Collected: 04/24/2025 11:00

Sample wt/vol: 25 (mL) Date Analyzed: 05/08/2025 02:29

Soil Aliquot Vol: _____ Dilution Factor: 1

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

Purge Volume: 25.0 (mL) Heated Purge: (Y/N) N pH: _____

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

Analysis Batch No.: 640992 Units: ug/L

Preparation Batch No.: _____ Instrument ID: 19094

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	10.3		0.50	0.20
108-88-3	Toluene	5.52		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	5.82		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.34		0.50	0.080
79-01-6	Trichloroethene	6.84		0.50	0.080
75-01-4	Vinyl chloride	4.95		0.50	0.10
1330-20-7	Xylenes, Total	16.9		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		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\19094\20250507-146489.b\HY07X45.D
 Lims ID: 410-219242-A-6 MSD
 Client ID: HD-COD-SW-15-0/1-0 MSD
 Sample Type: MSD
 Inject. Date: 08-May-2025 02:29:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0146489-016
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 09:34:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.849	1.843	0.006	99	296739	5.00	5.11	
5 Chloromethane	50	2.038	2.032	0.006	99	377778	5.00	4.60	
7 Butadiene	39	2.129	2.129	0.000	93	475122	5.00	6.39	
6 Vinyl chloride	62	2.142	2.142	0.000	98	354209	5.00	4.95	
9 Bromomethane	94	2.428	2.422	0.006	91	236369	5.00	4.85	
10 Chloroethane	64	2.507	2.507	0.000	100	225324	5.00	5.59	
11 Dichlorofluoromethane	67	2.721	2.715	0.006	97	584247	5.00	5.08	
12 Trichlorofluoromethane	101	2.727	2.721	0.006	88	454477	5.00	5.36	
15 1,2-Dichloro-1,1,2-trifluoroethane	67	3.074	3.068	0.006	95	360355	5.00	5.70	
17 1,1-Dichloroethene	96	3.288	3.282	0.006	96	255254	5.00	6.29	
19 Acetone	43	3.324	3.282	0.042	97	232011	62.6	61.0	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.324	3.324	0.000	93	250449	5.00	5.59	
21 Iodomethane	142	3.464	3.465	-0.001	99	387271	5.00	4.97	
23 Carbon disulfide	76	3.568	3.568	0.000	99	687248	5.00	5.28	
24 Methyl acetate	43	3.708	3.696	0.012	28	51455	5.00	4.49	
26 3-Chloro-1-propene	41	3.720	3.715	0.005	93	434518	5.00	5.13	
27 Methylene Chloride	84	3.885	3.885	0.000	95	241507	5.00	5.66	
* 28 t-Butyl alcohol-d10 (IS)	65	3.916	3.928	-0.012	97	51785	50.0	50.0	
29 2-Methyl-2-propanol	59	4.031	4.032	-0.001	95	51095	50.0	48.4	
31 Acrylonitrile	53	4.239	4.233	0.006	96	140889	25.0	22.3	
32 Methyl tert-butyl ether	73	4.257	4.263	-0.006	97	445010	5.00	4.72	
33 trans-1,2-Dichloroethene	96	4.281	4.275	0.006	97	264403	5.00	5.82	
34 Hexane	57	4.702	4.696	0.006	93	424246	5.00	6.19	
36 1,1-Dichloroethane	63	4.921	4.928	-0.007	96	540683	5.00	5.95	
37 Isopropyl ether	45	4.995	4.989	0.006	95	827488	5.00	5.28	
38 2-Chloro-1,3-butadiene	53	5.043	5.037	0.006	91	429335	5.00	5.39	
40 Tert-butyl ethyl ether	59	5.531	5.531	0.000	98	661180	5.00	4.76	
41 2-Butanone (MEK)	43	5.738	5.732	0.006	100	515923	62.6	71.8	
42 cis-1,2-Dichloroethene	96	5.769	5.769	0.000	84	326434	5.00	6.02	
43 2,2-Dichloropropane	77	5.787	5.781	0.006	86	416042	5.00	5.50	
44 Propionitrile	54	5.854	5.818	0.036	95	46968	37.5	27.5	
47 Methacrylonitrile	67	6.037	6.031	0.006	92	353801	37.5	36.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
48 Chlorobromomethane	128	6.110	6.104	0.006	97	104351	5.00	5.60	
49 Tetrahydrofuran	71	6.116	6.123	-0.007	81	56115	25.0	22.7	
50 Chloroform	83	6.257	6.257	0.000	94	492029	5.00	5.81	
\$ 52 Dibromofluoromethane (Surr)	113	6.476	6.476	0.000	94	383601	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.494	6.494	0.000	99	457541	5.00	5.97	
54 Cyclohexane	56	6.598	6.598	0.000	92	538840	5.00	6.08	
55 1,1-Dichloropropene	75	6.714	6.708	0.006	95	411351	5.00	5.62	
56 Carbon tetrachloride	117	6.714	6.714	0.000	84	387439	5.00	5.69	
57 Isobutyl alcohol	41	6.878	6.860	0.018	92	50897	125.1	143.7	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.939	6.940	-0.001	81	70165	10.0	10.4	
59 Benzene	78	6.970	6.970	0.000	97	1157222	5.00	5.50	
60 1,2-Dichloroethane	62	7.049	7.043	0.006	97	245757	5.00	5.57	
63 Tert-amyl methyl ether	73	7.171	7.171	0.000	99	521651	5.00	4.69	
* 64 Fluorobenzene (IS)	96	7.384	7.385	-0.001	98	1749924	10.0	10.0	
65 n-Heptane	43	7.409	7.409	0.000	95	469618	5.00	7.21	
67 n-Butanol	56	7.817	7.775	0.042	90	66022	250.2	266.8	
68 Trichloroethene	95	7.878	7.872	0.006	99	367648	5.00	6.84	
69 Methylcyclohexane	83	8.189	8.189	0.000	93	526070	5.00	6.04	
70 1,2-Dichloropropane	63	8.214	8.208	0.006	96	295877	5.00	5.84	
71 2-ethoxy-2-methyl butane	87	8.226	8.226	0.000	92	367267	5.00	4.81	
72 Methyl methacrylate	69	8.317	8.311	0.006	92	79888	5.00	3.87	
73 1,4-Dioxane	88	8.323	8.323	0.000	29	8083	125.1	160.3	M
74 Dibromomethane	93	8.323	8.323	0.000	97	102428	5.00	5.39	
76 Dichlorobromomethane	83	8.567	8.561	0.006	99	311804	5.00	5.57	
77 2-Nitropropane	41	8.841	8.829	0.012	97	19844	5.00	3.63	
79 1-Bromo-2-chloroethane	63	8.969	8.964	0.005	99	242794	5.00	5.56	
80 cis-1,3-Dichloropropene	75	9.134	9.134	0.000	96	359442	5.00	5.00	
82 4-Methyl-2-pentanone (MIBK)	43	9.317	9.317	0.000	97	1494888	62.6	67.5	
\$ 83 Toluene-d8 (Surr)	98	9.457	9.457	0.000	94	1716039	10.0	10.2	
84 Toluene	92	9.543	9.537	0.006	98	728737	5.00	5.52	
85 trans-1,3-Dichloropropene	75	9.817	9.817	0.000	94	275139	5.00	5.34	
104 Ethyl methacrylate	69	9.890	9.890	0.000	91	191590	5.00	5.25	
106 1,1,2-Trichloroethane	97	10.030	10.030	0.000	90	150146	5.00	5.30	
107 Tetrachloroethene	166	10.116	10.116	0.000	98	630317	5.00	10.3	
108 1,3-Dichloropropane	76	10.195	10.195	0.000	92	275439	5.00	5.40	
109 2-Hexanone	43	10.250	10.250	0.000	98	1011015	62.6	60.9	
111 Chlorodibromomethane	129	10.414	10.414	0.000	90	189165	5.00	5.40	
112 Ethylene Dibromide	107	10.530	10.530	0.000	98	137030	5.00	5.34	
* 113 Chlorobenzene-d5 (IS)	117	10.975	10.975	0.000	87	1243461	10.0	10.0	
114 1-Chlorohexane	91	10.987	10.988	-0.001	96	419246	5.00	5.15	
115 Chlorobenzene	112	11.000	11.000	0.000	93	755802	5.00	5.37	
116 1,1,1,2-Tetrachloroethane	131	11.085	11.085	0.000	96	246059	5.00	5.30	
117 Ethylbenzene	91	11.091	11.091	0.000	99	1453578	5.00	5.63	
119 m-Xylene & p-Xylene	106	11.207	11.207	0.000	100	1091513	10.0	11.3	
120 o-Xylene	106	11.542	11.542	0.000	98	514162	5.00	5.57	
121 Styrene	104	11.560	11.561	-0.001	95	816493	5.00	5.76	
122 Bromoform	173	11.719	11.719	0.000	97	99307	5.00	5.12	
123 Isopropylbenzene	105	11.853	11.853	0.000	96	1422943	5.00	6.38	
\$ 126 4-Bromofluorobenzene (Surr)	95	11.993	11.993	0.000	90	609192	10.0	9.89	
127 1,1,2,2-Tetrachloroethane	83	12.097	12.097	0.000	93	173368	5.00	5.25	
128 Bromobenzene	156	12.109	12.109	0.000	96	289763	5.00	5.32	
129 trans-1,4-Dichloro-2-butene	53	12.127	12.121	0.006	93	181617	25.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
130 1,2,3-Trichloropropane	110	12.146	12.146	0.000	84	43139	5.00	5.37	
131 N-Propylbenzene	91	12.182	12.182	0.000	99	1727712	5.00	5.93	
132 2-Chlorotoluene	126	12.255	12.256	-0.001	96	312411	5.00	5.38	
133 1,3,5-Trimethylbenzene	105	12.322	12.323	-0.001	94	1145868	5.00	5.61	
134 4-Chlorotoluene	126	12.353	12.353	0.000	98	304561	5.00	5.12	
135 tert-Butylbenzene	134	12.566	12.566	0.000	94	240167	5.00	5.23	
137 1,2,4-Trimethylbenzene	105	12.609	12.609	0.000	98	1130571	5.00	5.41	
138 sec-Butylbenzene	105	12.731	12.731	0.000	94	1535297	5.00	6.06	
139 1,3-Dichlorobenzene	146	12.828	12.829	-0.001	98	588625	5.00	5.49	
140 4-Isopropyltoluene	119	12.841	12.841	0.000	97	1253676	5.00	5.83	
* 141 1,4-Dichlorobenzene-d4	152	12.883	12.883	0.000	95	671451	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.902	12.902	0.000	93	573816	5.00	5.04	
143 1,2,3-Trimethylbenzene	120	12.914	12.914	0.000	99	467054	5.00	4.91	
144 Benzyl chloride	126	12.981	12.981	0.000	98	62025	5.00	4.72	
145 p-Diethylbenzene	119	13.115	13.115	0.000	93	753547	5.00	6.10	
146 n-Butylbenzene	92	13.133	13.133	0.000	97	637655	5.00	6.58	
147 1,2-Dichlorobenzene	146	13.164	13.164	0.000	98	508356	5.00	5.49	
149 1,2-Dibromo-3-Chloropropane	155	13.712	13.713	-0.001	84	19099	5.00	4.55	
150 1,3,5-Trichlorobenzene	180	13.834	13.835	-0.001	97	430405	5.00	5.57	
151 1,2,4-Trichlorobenzene	180	14.261	14.255	0.006	93	329408	5.00	5.69	
152 Hexachlorobutadiene	225	14.340	14.341	-0.001	96	186432	5.00	6.71	
153 Naphthalene	128	14.438	14.438	0.000	97	497026	5.00	5.35	
154 1,2,3-Trichlorobenzene	180	14.578	14.578	0.000	95	265172	5.00	5.26	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_QC_Gas826_00258

Amount Added: 5.38

Units: uL

MSV_LCS_VOC#1_00217

Amount Added: 5.38

Units: uL

MSV_LLcentISS_00016

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-May-2025 10:21:44

Chrom Revision: 2.3 18-Apr-2025 15:35:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X45.D

Injection Date: 08-May-2025 02:29:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-219242-A-6 MSD

Worklist Smp#: 16

Client ID: HD-COD-SW-15-0/1-0 MSD

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

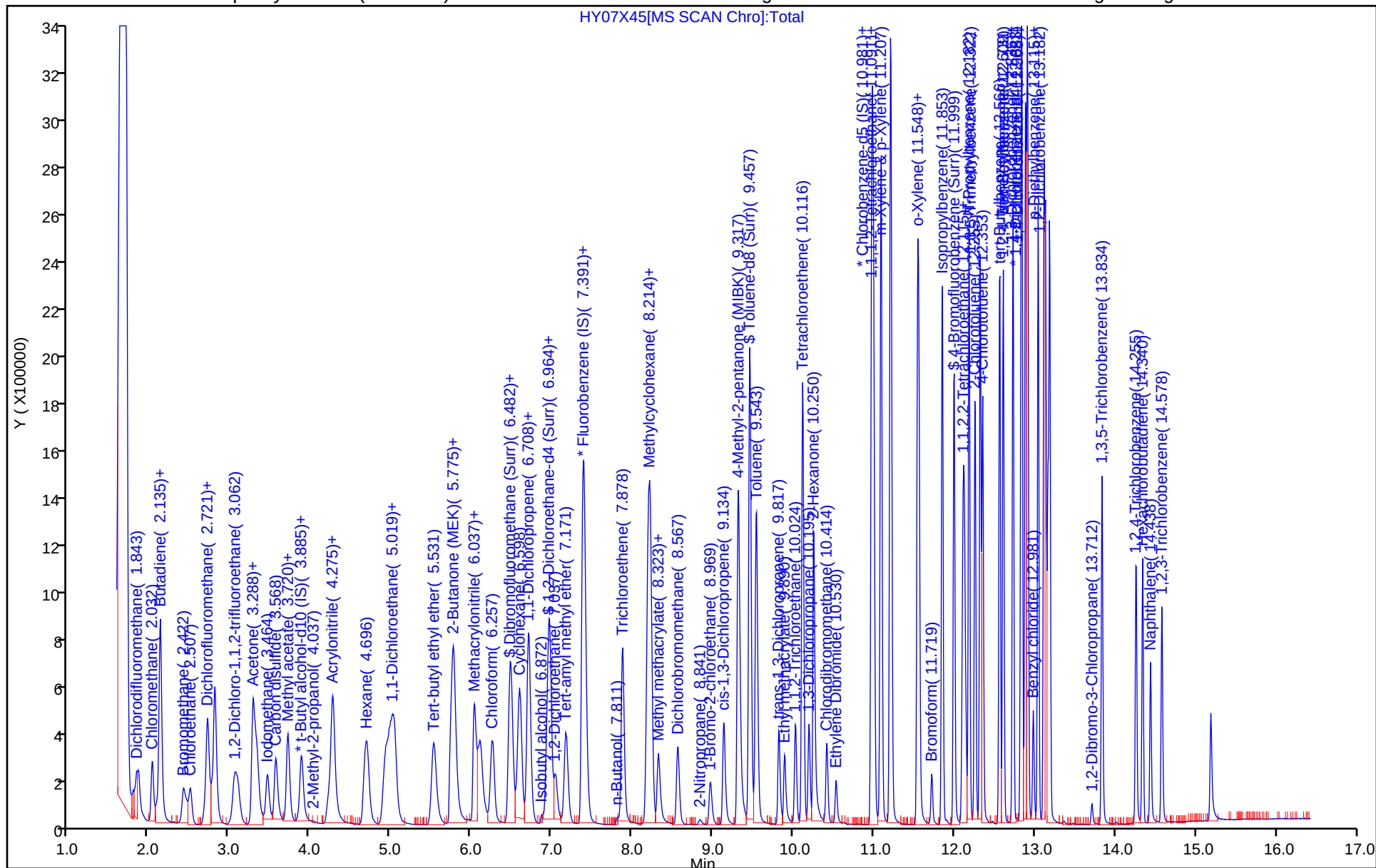
ALS Bottle#: 15

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\HY07X45.D
Lims ID: 410-219242-A-6 MSD
Client ID: HD-COD-SW-15-0/1-0 MSD
Sample Type: MSD
Inject. Date: 08-May-2025 02:29:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0146489-016
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20250507-146489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-May-2025 10:21:00 Calib Date: 31-Mar-2025 18:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20250331-142485.b\HM31X20.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1716

First Level Reviewer: N7YK

Date: 08-May-2025 09:34:36

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	10.1	100.93
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.26
\$ 83 Toluene-d8 (Surr)	10.0	10.2	102.00
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.89	98.93

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-219242-1

SDG No.:

Instrument ID: 19094

Start Date: 03/31/2025 15:05

Analysis Batch Number: 623992

End Date: 03/31/2025 19:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-623992/1		03/31/2025 15:05	1	HM31T01.D	R-624Si1MS 30m 0.25 (mm)
IC 410-623992/13		03/31/2025 15:52	1	HM31X12.D	R-624Si1MS 30m 0.25 (mm)
IC 410-623992/14		03/31/2025 16:13	1	HM31X13.D	R-624Si1MS 30m 0.25 (mm)
IC 410-623992/15		03/31/2025 16:34	1	HM31X14.D	R-624Si1MS 30m 0.25 (mm)
IC 410-623992/16		03/31/2025 16:54	1	HM31X15.D	R-624Si1MS 30m 0.25 (mm)
IC 410-623992/17		03/31/2025 17:16	1	HM31X16.D	R-624Si1MS 30m 0.25 (mm)
IC 410-623992/18		03/31/2025 17:36	1	HM31X17.D	R-624Si1MS 30m 0.25 (mm)
IC 410-623992/19		03/31/2025 17:57	1	HM31X18.D	R-624Si1MS 30m 0.25 (mm)
ICIS 410-623992/20		03/31/2025 18:18	1	HM31X19.D	R-624Si1MS 30m 0.25 (mm)
IC 410-623992/21		03/31/2025 18:38	1	HM31X20.D	R-624Si1MS 30m 0.25 (mm)
ICV 410-623992/23		03/31/2025 19:20	1	HM31X22.D	R-624Si1MS 30m 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-219242-1

SDG No.:

Instrument ID: 19094

Start Date: 05/07/2025 21:17

Analysis Batch Number: 640992

End Date: 05/08/2025 07:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-640992/1		05/07/2025 21:17	1	HY07T32.D	R-624SiLMS 30m 0.25 (mm)
CCVIS 410-640992/3		05/07/2025 21:56	1	HY07X32.D	R-624SiLMS 30m 0.25 (mm)
LCS 410-640992/4		05/07/2025 22:17	1	HY07X33.D	R-624SiLMS 30m 0.25 (mm)
ZZZZZ (QC)		05/07/2025 22:37	1		R-624SiLMS 30m 0.25 (mm)
MB 410-640992/6		05/07/2025 22:58	1	HY07X35.D	R-624SiLMS 30m 0.25 (mm)
410-219242-14	HD-QC1-0/1-2	05/07/2025 23:21	1	HY07X36.D	R-624SiLMS 30m 0.25 (mm)
ZZZZZ (Client)		05/07/2025 23:41	1		R-624SiLMS 30m 0.25 (mm)
410-219242-1	HD-COD-SW-6-0/1-0	05/08/2025 00:03	1	HY07X38.D	R-624SiLMS 30m 0.25 (mm)
410-219242-2	HD-COD-SW-7-0/1-0	05/08/2025 00:24	1	HY07X39.D	R-624SiLMS 30m 0.25 (mm)
410-219242-3	HD-COD-SW-8-0/1-0	05/08/2025 00:45	1	HY07X40.D	R-624SiLMS 30m 0.25 (mm)
410-219242-4	HD-COD-SW-9-0/1-0	05/08/2025 01:06	1	HY07X41.D	R-624SiLMS 30m 0.25 (mm)
410-219242-5	HD-COD-SW-13-0/1-0	05/08/2025 01:27	1	HY07X42.D	R-624SiLMS 30m 0.25 (mm)
410-219242-6	HD-COD-SW-15-0/1-0	05/08/2025 01:47	1	HY07X43.D	R-624SiLMS 30m 0.25 (mm)
410-219242-6 MS	HD-COD-SW-15-0/1-0 MS MS	05/08/2025 02:08	1	HY07X44.D	R-624SiLMS 30m 0.25 (mm)
410-219242-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	05/08/2025 02:29	1	HY07X45.D	R-624SiLMS 30m 0.25 (mm)
410-219242-7	HD-COD-SW-16-0/1-0	05/08/2025 02:50	1	HY07X46.D	R-624SiLMS 30m 0.25 (mm)
410-219242-9	HD-COD-SW-26-0/1-0	05/08/2025 03:10	1	HY07X47.D	R-624SiLMS 30m 0.25 (mm)
410-219242-10	HD-COD-SW-27-0/1-0	05/08/2025 03:31	1	HY07X48.D	R-624SiLMS 30m 0.25 (mm)
410-219242-11	HD-COD-SW-28-0/1-0	05/08/2025 03:52	1	HY07X49.D	R-624SiLMS 30m 0.25 (mm)
410-219242-12	HD-COD-SW-29-0/1-0	05/08/2025 04:12	1	HY07X50.D	R-624SiLMS 30m 0.25 (mm)
ZZZZZ (Client)		05/08/2025 04:33	1		R-624SiLMS 30m 0.25 (mm)
ZZZZZ (Client)		05/08/2025 04:54	1		R-624SiLMS 30m 0.25 (mm)
ZZZZZ (Client)		05/08/2025 05:15	1		R-624SiLMS 30m 0.25 (mm)
ZZZZZ (Client)		05/08/2025 05:36	10		R-624SiLMS 30m 0.25 (mm)
ZZZZZ (Client)		05/08/2025 05:56	1		R-624SiLMS 30m 0.25 (mm)
ZZZZZ (Client)		05/08/2025 06:17	10		R-624SiLMS 30m 0.25 (mm)
410-219242-8	HD-COD-SW-17-0/1-0	05/08/2025 06:38	1	HY07X57.D	R-624SiLMS 30m 0.25 (mm)
410-219242-8 DL	HD-COD-SW-17-0/1-0 DL	05/08/2025 06:58	20	HY07X58.D	R-624SiLMS 30m 0.25 (mm)
410-219242-13	HD-QC1-0/1-1	05/08/2025 07:19	1	HY07X59.D	R-624SiLMS 30m 0.25 (mm)
410-219242-13 DL	HD-QC1-0/1-1 DL	05/08/2025 07:40	20	HY07X60.D	R-624SiLMS 30m 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1

SDG No.: _____

Batch Number: 623992 Batch Start Date: 03/31/25 15:05 Batch Analyst: Kephart, KaylaBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Lot#Vial	LCS_ETBR 00009	MSV_LCS_ACROL 00220	MSV_LCS_EE 00010
BFB 410-623992/1		8260D			1 uL	1 uL				
IC 410-623992/13		8260D			25 mL	25 mL	2788			
IC 410-623992/14		8260D			25 mL	25 mL	2788			
IC 410-623992/15		8260D			25 mL	25 mL	2788			
IC 410-623992/16		8260D			25 mL	25 mL	2788			
IC 410-623992/17		8260D			25 mL	25 mL	2788			
IC 410-623992/18		8260D			25 mL	25 mL	2788			
IC 410-623992/19		8260D			25 mL	25 mL	2788			
ICIS 410-623992/20		8260D			25 mL	25 mL	2788			
IC 410-623992/21		8260D			25 mL	25 mL	2788			
ICV 410-623992/23		8260D			25 mL	25 mL	2788	12.5 uL	12.5 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_Penta 00053	MSV_LCS_VOC#1 00214	MSV_LL_#1_826 00163	MSV_LL_#2_826 00174	MSV_LL_GAS826 00264	MSV_LLcentISS 00016
BFB 410-623992/1		8260D								
IC 410-623992/13		8260D					0.4 uL	0.4 uL	0.4 uL	5 uL
IC 410-623992/14		8260D					1.2 uL	1.2 uL	1.2 uL	5 uL
IC 410-623992/15		8260D					2 uL	2 uL	2 uL	5 uL
IC 410-623992/16		8260D					2 uL	2 uL	2 uL	5 uL
IC 410-623992/17		8260D					2 uL	2 uL	2 uL	5 uL
IC 410-623992/18		8260D					2 uL	2 uL	2 uL	5 uL
IC 410-623992/19		8260D					5 uL	5 uL	5 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.

8260D

Page 1 of 2

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1

SDG No.: _____

Batch Number: 623992 Batch Start Date: 03/31/25 15:05 Batch Analyst: Kephart, KaylaBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_Penta 00053	MSV_LCS_VOC#1 00214	MSV_LL_#1_826 00163	MSV_LL_#2_826 00174	MSV_LL_GAS826 00264	MSV_LLcentISS 00016
ICIS 410-623992/20		8260D					10 uL	10 uL	10 uL	5 uL
IC 410-623992/21		8260D					25 uL	25 uL	25 uL	5 uL
ICV 410-623992/23		8260D			12.5 uL	12.5 uL				5 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_QC_Gas826 00252	MSV_V_BFB 00018				
BFB 410-623992/1		8260D				1 uL				
IC 410-623992/13		8260D								
IC 410-623992/14		8260D								
IC 410-623992/15		8260D								
IC 410-623992/16		8260D								
IC 410-623992/17		8260D								
IC 410-623992/18		8260D								
IC 410-623992/19		8260D								
ICIS 410-623992/20		8260D								
IC 410-623992/21		8260D								
ICV 410-623992/23		8260D			12.5 uL					

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 2 of 2

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1

SDG No.: _____

Batch Number: 640992 Batch Start Date: 05/07/25 21:17 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 410-640992/1		8260D			1 uL	1 uL				
CCVIS 410-640992/3		8260D			25 mL	25 mL				2797
LCS 410-640992/4		8260D			25 mL	25 mL				2797
MB 410-640992/6		8260D			25 mL	25 mL				2797
410-219242-A-14	HD-QC1-0/1-2	8260D	Water	T	25 mL	25 mL	<2 SU	N	<2	
410-219242-A-1	HD-COD-SW-6-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	<2	
410-219242-A-2	HD-COD-SW-7-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	<2	
410-219242-A-3	HD-COD-SW-8-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	<2	
410-219242-A-4	HD-COD-SW-9-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	<2	
410-219242-A-5	HD-COD-SW-13-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	<2	
410-219242-A-6	HD-COD-SW-15-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	<2	
410-219242-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	Water	T	25 mL	25 mL	<2 SU	N	<2	
410-219242-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	Water	T	25 mL	25 mL	<2 SU	N	<2	
410-219242-A-7	HD-COD-SW-16-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	<2	
410-219242-A-9	HD-COD-SW-26-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	<2	
410-219242-A-10	HD-COD-SW-27-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	<2	
410-219242-A-11	HD-COD-SW-28-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	<2	
410-219242-A-12	HD-COD-SW-29-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	<2	
410-219242-A-8	HD-COD-SW-17-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	<2	
410-219242-B-8	HD-COD-SW-17-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	<2	2797
410-219242-A-13	HD-QC1-0/1-1	8260D	Water	T	25 mL	25 mL	<2 SU	N	<2	
410-219242-B-13	HD-QC1-0/1-1	8260D	Water	T	25 mL	25 mL	<2 SU	N	<2	2797

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.: 410-219242-1

SDG No.: _____

Batch Number: 640992 Batch Start Date: 05/07/25 21:17 Batch Analyst: Walmer, GavinBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_VOC#1 00217	MSV_LL_#1_826 00166	MSV_LL_#2_826 00178	MSV_LL_GAS826 00270	MSV_LLcentISS 00016	MSV_QC_Gas826 00258
BFB 410-640992/1		8260D								
CCVIS 410-640992/3		8260D				20 uL	20 uL	20 uL	5 uL	
LCS 410-640992/4		8260D			12.5 uL				5 uL	12.5 uL
MB 410-640992/6		8260D							5 uL	
410-219242-A-14	HD-QC1-0/1-2	8260D	Water	T					5 uL	
410-219242-A-1	HD-COD-SW-6-0/1-0	8260D	Water	T					5 uL	
410-219242-A-2	HD-COD-SW-7-0/1-0	8260D	Water	T					5 uL	
410-219242-A-3	HD-COD-SW-8-0/1-0	8260D	Water	T					5 uL	
410-219242-A-4	HD-COD-SW-9-0/1-0	8260D	Water	T					5 uL	
410-219242-A-5	HD-COD-SW-13-0/1-0	8260D	Water	T					5 uL	
410-219242-A-6	HD-COD-SW-15-0/1-0	8260D	Water	T					5 uL	
410-219242-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	Water	T	5.38 uL				5 uL	5.38 uL
410-219242-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	Water	T	5.38 uL				5 uL	5.38 uL
410-219242-A-7	HD-COD-SW-16-0/1-0	8260D	Water	T					5 uL	
410-219242-A-9	HD-COD-SW-26-0/1-0	8260D	Water	T					5 uL	
410-219242-A-10	HD-COD-SW-27-0/1-0	8260D	Water	T					5 uL	
410-219242-A-11	HD-COD-SW-28-0/1-0	8260D	Water	T					5 uL	
410-219242-A-12	HD-COD-SW-29-0/1-0	8260D	Water	T					5 uL	
410-219242-A-8	HD-COD-SW-17-0/1-0	8260D	Water	T					5 uL	
410-219242-B-8	HD-COD-SW-17-0/1-0	8260D	Water	T					5 uL	
410-219242-A-13	HD-QC1-0/1-1	8260D	Water	T					5 uL	
410-219242-B-13	HD-QC1-0/1-1	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

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1

SDG No.: _____

Batch Number: 640992 Batch Start Date: 05/07/25 21:17 Batch Analyst: Walmer, GavinBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_V_BFB 00018					
BFB 410-640992/1		8260D			1 uL					
CCVIS 410-640992/3		8260D								
LCS 410-640992/4		8260D								
MB 410-640992/6		8260D								
410-219242-A-14	HD-QC1-0/1-2	8260D	Water	T						
410-219242-A-1	HD-COD-SW-6-0/1-0	8260D	Water	T						
410-219242-A-2	HD-COD-SW-7-0/1-0	8260D	Water	T						
410-219242-A-3	HD-COD-SW-8-0/1-0	8260D	Water	T						
410-219242-A-4	HD-COD-SW-9-0/1-0	8260D	Water	T						
410-219242-A-5	HD-COD-SW-13-0/1-0	8260D	Water	T						
410-219242-A-6	HD-COD-SW-15-0/1-0	8260D	Water	T						
410-219242-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	Water	T						
410-219242-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	Water	T						
410-219242-A-7	HD-COD-SW-16-0/1-0	8260D	Water	T						
410-219242-A-9	HD-COD-SW-26-0/1-0	8260D	Water	T						
410-219242-A-10	HD-COD-SW-27-0/1-0	8260D	Water	T						
410-219242-A-11	HD-COD-SW-28-0/1-0	8260D	Water	T						
410-219242-A-12	HD-COD-SW-29-0/1-0	8260D	Water	T						
410-219242-A-8	HD-COD-SW-17-0/1-0	8260D	Water	T						
410-219242-B-8	HD-COD-SW-17-0/1-0	8260D	Water	T						
410-219242-A-13	HD-QC1-0/1-1	8260D	Water	T						
410-219242-B-13	HD-QC1-0/1-1	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

Page 3 of 4

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-219242-1

SDG No.: _____

Batch Number: 640992 Batch Start Date: 05/07/25 21:17 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.

8260D

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Shipping and Receiving Documents



410-219242 Chain of Custody

Environmental Analysis Request/Chain of Custody

Environmental

Acct. #

Group #

Sample #

Client: Groundwater Sciences Corporation				Matrix			Analyses Requested										For Lab Use Only						
Project Name/#: fYNOP Monthly Surface Water		Site ID #: fYNOP, York PA		☐ Tissue			☐ Ground			☒ Surface			Preservation Codes							SF #: _____			
Project Manager: Chris O'Neil		P.O. #: 10012.53		☐ Potable			☐ NPDES													SCR #: _____			
Sampler: Casey Littlefield / Lucas Grimm		PWSID #: N/A		☐ Soil			☐ Water			☐ Other:													
Phone #: (717) 901-8176 / (717) 756-1246		Quote #: _____																					
State where samples were collected: York, PA				For Compliance: Yes ☐ No ☒				Total # of Containers			Aqueous VOCs via 8260D (low level - 25 ml purge)										Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ P = H ₃ PO ₄ O = Other		
Sample Identification		Collection		Grab		Composite																	
		Date	Time																			Remarks	
HD-COD-SW-6-0/1-0		4/24/25	1000	X				X		3		X										All samples	
HD-COD-SW-7-0/1-0		4/24/25	1037	X				X		3		X										preserved on ice	
HD-COD-SW-8-0/1-0		4/24/25	0847	X				X		3		X											
HD-COD-SW-9-0/1-0		4/24/25	1210	X				X		3		X											
HD-COD-SW-13-0/1-0		4/24/25	0903	X				X		3		X											
HD-COD-SW-15-0/1-0		4/24/25	1100	X				X		3		X											
HD-COD-SW-15-0/1-0 MS		4/24/25	1100	X				X		3		X											
HD-COD-SW-15-0/1-0 MSD		4/24/25	1100	X				X		3		X											
HD-COD-SW-16-0/1-0		4/24/25	0920	X				X		3		X											
HD-COD-SW-17-0/1-0		4/24/25	0930	X				X		3		X											
Turnaround Time Requested (TAT) (please check): Standard ☒ Rush ☐ (Rush TAT is subject to laboratory approval and surcharges.)				Relinquished by: _____			Date: 4/25/25		Time: 1040		Received by: _____			Date: 4/25/25		Time: 1040							
Date results are needed: STANDARD				Relinquished by: _____			Date: 4/25/25		Time: 16:44		Received by: _____			Date: _____		Time: _____							
Rush results requested by (please check): E-Mail ☒ Phone ☐				Relinquished by: _____			Date: _____		Time: _____		Received by: _____			Date: _____		Time: _____							
E-mail Address: 6N-FILE				Relinquished by: _____			Date: _____		Time: _____		Received by: _____			Date: _____		Time: _____							
Phone: _____				Relinquished by: _____			Date: _____		Time: _____		Received by: _____			Date: _____		Time: _____							
Data Package Options (please check if required)				Relinquished by: _____			Date: _____		Time: _____		Received by: _____			Date: _____		Time: _____							
Type I (Validation/non-CLP) ☐ MA MCP ☐				Relinquished by: _____			Date: _____		Time: _____		Received by: _____			Date: _____		Time: _____							
Type III (Reduced non-CLP) ☐ CT RCP ☐				Relinquished by: _____			Date: _____		Time: _____		Received by: _____			Date: _____		Time: _____							
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐				Relinquished by: _____			Date: _____		Time: _____		Received by: _____			Date: _____		Time: _____							
NJ DKQP ☐ NYSDEC Category ☐ A or ☐ B				Relinquished by Commercial Carrier: _____			Date: _____		Time: _____		Received by: _____			Date: _____		Time: _____							
EDD Required? Yes ☒ No ☐ If yes, format: _____				CLP Like Deliverables, Project Specific Analyte List			UPS _____ FedEx _____ Other ☒		Temperature upon receipt: raw: 2.1 cor: 2.0 °C														

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # _____ Group # _____ Sample # _____

Client: Groundwater Sciences Corporation				Matrix			Analyses Requested										For Lab Use Only														
Project Name/#: fYNOP Monthly Surface Water		Site ID #: fYNOP, York PA		☐ Tissue			Preservation Codes										SF #: _____														
Project Manager: Chris O'Neil		P.O. #: 10012.53		☐ Ground													SCR #: _____														
Sampler: Casey Littlefield / Lucas Grimm		PWSID #: N/A		☒ Surface																											
Phone #: (717) 901-8176 / (717) 756-1246		Quote #:		☐ NPDES																											
State where samples were collected: York, PA		For Compliance: Yes ☐ No ☒		☐ Trip Blank																											
		Collection																													
Sample Identification		Date		Time		Grab		Composite		Soil		Water		Other		Total # of Containers		Aqueous VOCs via 8260D (low level - 25 ml purge)												Preservation Codes	
																														H = HCl T = Thiosulfate	
																														N = HNO ₃ B = NaOH	
																														S = H ₂ SO ₄ P = H ₃ PO ₄	
																														O = Other	
																														Remarks	
HD-COD-SW-26-0/1-0		4/24/25		1017		X						X				3		X												All samples	
HD-COD-SW-27-0/1-0		4/24/25		1050		X						X				3		X												preserved on ice	
HD-COD-SW-28-0/1-0		4/24/25		1225		X						X				3		X													
HD-COD-SW-29-0/1-0		4/24/25		0832		X						X				3		X													
HD-QC1-0/1-1		4/24/25		1200		X						X				3		X													
HD-QC1-0/1-2		4/24/25		—		X								X		2		X												Trip Blank	

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-219242-1

Login Number: 219242

List Number: 1

Creator: Foreman, Kai

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)?	True	