



ANALYTICAL REPORT

PREPARED FOR

Attn: Christopher O'Neil
Groundwater Sciences Corporation
2550 Interstate Drive
Suite 303
Harrisburg PA 17110

Generated 08/28/2024

JOB DESCRIPTION

fYNOP Monthly Surface Water

JOB NUMBER

410-185105-1

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
08/28/2024

Authorized for release by
Kelly Gallagher, Project Manager
kelly.gallagher@et.eurofinsus.com
717 205-7820

Table of Contents

Cover Page	1
Data Summaries	4
Definitions	4
Case Narrative	5
Detection Summary	6
Client Sample Results	9
Default Detection Limits	24
Surrogate Summary	25
QC Sample Results	26
QC Association	31
Chronicle	32
Certification Summary	35
Method Summary	36
Sample Summary	37
Manual Integration Summary	38
Reagent Traceability	45
COAs	60
Organic Sample Data	152
GC/MS VOA	152
Method 8260D Low Level	152
Method 8260D Low Level QC Summary	153
Method 8260D Low Level Sample Data	165
Standards Data	336
Method 8260D Low Level ICAL Data	336
Method 8260D Low Level CCAL Data	555
Raw QC Data	572
Method 8260D Low Level Tune Data	572
Method 8260D Low Level Blank Data	580
Method 8260D Low Level LCS/LCSD Data	588
Method 8260D Low Level MS/MSD Data	603
Method 8260D Low Level Run Logs	617
Method 8260D Low Level Prep Data	619
Shipping and Receiving Documents	627
Client Chain of Custody	628
Sample Receipt Checklist	630

Definitions/Glossary

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

Job ID: 410-185105-1

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

Job Narrative
410-185105-1

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 8/21/2024 3:30 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 2.7°C.

GC/MS VOA

Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-545038 recovered outside acceptance criteria, low biased, for Bromoform. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

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

Detection Summary

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

Job ID: 410-185105-1

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

Lab Sample ID: 410-185105-1

No Detections.

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

Lab Sample ID: 410-185105-2

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	0.12	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-8-0/1-0

Lab Sample ID: 410-185105-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.16	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.2		0.50	0.20	ug/L	1		8260D	Total/NA
Toluene	0.083	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: 410-185105-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.5	J	5.0	1.5	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.26	J	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.084	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-185105-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.16	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.4		0.50	0.20	ug/L	1		8260D	Total/NA
Toluene	0.088	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

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

Lab Sample ID: 410-185105-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.28	J	0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.10	J	0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.14	J	0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.15	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.90		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	4.6		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.95		0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-185105-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.17	J	0.50	0.080	ug/L	1		8260D	Total/NA
Chloroform	0.091	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.20	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	2.4		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	0.23	J	0.50	0.080	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Detection Summary

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

Job ID: 410-185105-1

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

Lab Sample ID: 410-185105-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	10		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	1.8		0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.80		0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.15	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.5		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	4.2		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	120		5.0	2.0	ug/L	10		8260D	Total/NA

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

Lab Sample ID: 410-185105-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.49	J	0.50	0.090	ug/L	1		8260D	Total/NA
Tetrachloroethene	2.7		0.50	0.20	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-27-0/1-0

Lab Sample ID: 410-185105-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.5	J	5.0	1.5	ug/L	1		8260D	Total/NA
Chloroform	0.11	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.096	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.13	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-185105-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.9	J	5.0	1.5	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.099	J	0.50	0.080	ug/L	1		8260D	Total/NA
Toluene	0.15	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.091	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-185105-12

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	0.15	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.55		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	0.21	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-185105-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	10		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	1.8		0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.79		0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.14	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.7		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	4.2		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	120		5.0	2.0	ug/L	10		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: 410-185105-1

Client Sample ID: HD-QC1-0/1-2 Lab Sample ID: 410-185105-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.62	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: 410-185105-1

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

Lab Sample ID: 410-185105-1

Date Collected: 08/20/24 10:40

Matrix: Water

Date Received: 08/21/24 15:30

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			08/27/24 23:43	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/27/24 23:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/27/24 23:43	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/27/24 23:43	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/27/24 23:43	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/27/24 23:43	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/27/24 23:43	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/27/24 23:43	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/27/24 23:43	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/27/24 23:43	1
2-Hexanone	ND		5.0	2.0	ug/L			08/27/24 23:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/27/24 23:43	1
Acetone	ND		5.0	1.5	ug/L			08/27/24 23:43	1
Benzene	ND		0.50	0.10	ug/L			08/27/24 23:43	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/27/24 23:43	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/27/24 23:43	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			08/27/24 23:43	1
Bromomethane	ND		0.50	0.10	ug/L			08/27/24 23:43	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/27/24 23:43	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/27/24 23:43	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/27/24 23:43	1
Chloroethane	ND		0.50	0.10	ug/L			08/27/24 23:43	1
Chloroform	ND		0.50	0.090	ug/L			08/27/24 23:43	1
Chloromethane	ND		0.50	0.10	ug/L			08/27/24 23:43	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			08/27/24 23:43	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/27/24 23:43	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/27/24 23:43	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/27/24 23:43	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/27/24 23:43	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/27/24 23:43	1
Styrene	ND		0.50	0.070	ug/L			08/27/24 23:43	1
Tetrachloroethene	ND		0.50	0.20	ug/L			08/27/24 23:43	1
Toluene	ND		0.50	0.080	ug/L			08/27/24 23:43	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/27/24 23:43	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/27/24 23:43	1
Trichloroethene	ND		0.50	0.080	ug/L			08/27/24 23:43	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/27/24 23:43	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/27/24 23:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		80 - 120		08/27/24 23:43	1
4-Bromofluorobenzene (Surr)	98		80 - 120		08/27/24 23:43	1
Dibromofluoromethane (Surr)	98		80 - 120		08/27/24 23:43	1
Toluene-d8 (Surr)	103		80 - 120		08/27/24 23:43	1

Client Sample Results

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

Job ID: 410-185105-1

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

Lab Sample ID: 410-185105-2

Date Collected: 08/20/24 11:23

Matrix: Water

Date Received: 08/21/24 15:30

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			08/28/24 00:04	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/28/24 00:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/28/24 00:04	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/28/24 00:04	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/28/24 00:04	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/28/24 00:04	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/28/24 00:04	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/28/24 00:04	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/28/24 00:04	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/28/24 00:04	1
2-Hexanone	ND		5.0	2.0	ug/L			08/28/24 00:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/28/24 00:04	1
Acetone	ND		5.0	1.5	ug/L			08/28/24 00:04	1
Benzene	ND		0.50	0.10	ug/L			08/28/24 00:04	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/28/24 00:04	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/28/24 00:04	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			08/28/24 00:04	1
Bromomethane	ND		0.50	0.10	ug/L			08/28/24 00:04	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/28/24 00:04	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/28/24 00:04	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/28/24 00:04	1
Chloroethane	ND		0.50	0.10	ug/L			08/28/24 00:04	1
Chloroform	0.12	J	0.50	0.090	ug/L			08/28/24 00:04	1
Chloromethane	ND		0.50	0.10	ug/L			08/28/24 00:04	1
cis-1,2-Dichloroethene	0.12	J	0.50	0.080	ug/L			08/28/24 00:04	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/28/24 00:04	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/28/24 00:04	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/28/24 00:04	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/28/24 00:04	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/28/24 00:04	1
Styrene	ND		0.50	0.070	ug/L			08/28/24 00:04	1
Tetrachloroethene	ND		0.50	0.20	ug/L			08/28/24 00:04	1
Toluene	ND		0.50	0.080	ug/L			08/28/24 00:04	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/28/24 00:04	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/28/24 00:04	1
Trichloroethene	0.17	J	0.50	0.080	ug/L			08/28/24 00:04	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/28/24 00:04	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/28/24 00:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		80 - 120		08/28/24 00:04	1
4-Bromofluorobenzene (Surr)	97		80 - 120		08/28/24 00:04	1
Dibromofluoromethane (Surr)	99		80 - 120		08/28/24 00:04	1
Toluene-d8 (Surr)	103		80 - 120		08/28/24 00:04	1

Client Sample Results

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

Job ID: 410-185105-1

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

Lab Sample ID: 410-185105-3

Date Collected: 08/20/24 09:15

Matrix: Water

Date Received: 08/21/24 15:30

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			08/28/24 00:24	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/28/24 00:24	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/28/24 00:24	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/28/24 00:24	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/28/24 00:24	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/28/24 00:24	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/28/24 00:24	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/28/24 00:24	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/28/24 00:24	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/28/24 00:24	1
2-Hexanone	ND		5.0	2.0	ug/L			08/28/24 00:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/28/24 00:24	1
Acetone	ND		5.0	1.5	ug/L			08/28/24 00:24	1
Benzene	ND		0.50	0.10	ug/L			08/28/24 00:24	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/28/24 00:24	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/28/24 00:24	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			08/28/24 00:24	1
Bromomethane	ND		0.50	0.10	ug/L			08/28/24 00:24	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/28/24 00:24	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/28/24 00:24	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/28/24 00:24	1
Chloroethane	ND		0.50	0.10	ug/L			08/28/24 00:24	1
Chloroform	ND		0.50	0.090	ug/L			08/28/24 00:24	1
Chloromethane	ND		0.50	0.10	ug/L			08/28/24 00:24	1
cis-1,2-Dichloroethene	0.16	J	0.50	0.080	ug/L			08/28/24 00:24	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/28/24 00:24	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/28/24 00:24	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/28/24 00:24	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/28/24 00:24	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/28/24 00:24	1
Styrene	ND		0.50	0.070	ug/L			08/28/24 00:24	1
Tetrachloroethene	1.2		0.50	0.20	ug/L			08/28/24 00:24	1
Toluene	0.083	J	0.50	0.080	ug/L			08/28/24 00:24	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/28/24 00:24	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/28/24 00:24	1
Trichloroethene	0.23	J	0.50	0.080	ug/L			08/28/24 00:24	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/28/24 00:24	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/28/24 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		80 - 120		08/28/24 00:24	1
4-Bromofluorobenzene (Surr)	99		80 - 120		08/28/24 00:24	1
Dibromofluoromethane (Surr)	98		80 - 120		08/28/24 00:24	1
Toluene-d8 (Surr)	104		80 - 120		08/28/24 00:24	1

Client Sample Results

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

Job ID: 410-185105-1

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

Lab Sample ID: 410-185105-4

Date Collected: 08/20/24 12:53

Matrix: Water

Date Received: 08/21/24 15:30

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			08/28/24 00:45	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/28/24 00:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/28/24 00:45	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/28/24 00:45	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/28/24 00:45	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/28/24 00:45	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/28/24 00:45	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/28/24 00:45	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/28/24 00:45	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/28/24 00:45	1
2-Hexanone	ND		5.0	2.0	ug/L			08/28/24 00:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/28/24 00:45	1
Acetone	2.5	J	5.0	1.5	ug/L			08/28/24 00:45	1
Benzene	ND		0.50	0.10	ug/L			08/28/24 00:45	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/28/24 00:45	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/28/24 00:45	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			08/28/24 00:45	1
Bromomethane	ND		0.50	0.10	ug/L			08/28/24 00:45	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/28/24 00:45	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/28/24 00:45	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/28/24 00:45	1
Chloroethane	ND		0.50	0.10	ug/L			08/28/24 00:45	1
Chloroform	ND		0.50	0.090	ug/L			08/28/24 00:45	1
Chloromethane	ND		0.50	0.10	ug/L			08/28/24 00:45	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			08/28/24 00:45	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/28/24 00:45	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/28/24 00:45	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/28/24 00:45	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/28/24 00:45	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/28/24 00:45	1
Styrene	ND		0.50	0.070	ug/L			08/28/24 00:45	1
Tetrachloroethene	0.26	J	0.50	0.20	ug/L			08/28/24 00:45	1
Toluene	ND		0.50	0.080	ug/L			08/28/24 00:45	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/28/24 00:45	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/28/24 00:45	1
Trichloroethene	0.084	J	0.50	0.080	ug/L			08/28/24 00:45	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/28/24 00:45	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/28/24 00:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		80 - 120		08/28/24 00:45	1
4-Bromofluorobenzene (Surr)	99		80 - 120		08/28/24 00:45	1
Dibromofluoromethane (Surr)	97		80 - 120		08/28/24 00:45	1
Toluene-d8 (Surr)	104		80 - 120		08/28/24 00:45	1

Client Sample Results

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

Job ID: 410-185105-1

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

Lab Sample ID: 410-185105-5

Date Collected: 08/20/24 09:38

Matrix: Water

Date Received: 08/21/24 15:30

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			08/28/24 01:05	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/28/24 01:05	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/28/24 01:05	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/28/24 01:05	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/28/24 01:05	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/28/24 01:05	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/28/24 01:05	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/28/24 01:05	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/28/24 01:05	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/28/24 01:05	1
2-Hexanone	ND		5.0	2.0	ug/L			08/28/24 01:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/28/24 01:05	1
Acetone	ND		5.0	1.5	ug/L			08/28/24 01:05	1
Benzene	ND		0.50	0.10	ug/L			08/28/24 01:05	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/28/24 01:05	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/28/24 01:05	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			08/28/24 01:05	1
Bromomethane	ND		0.50	0.10	ug/L			08/28/24 01:05	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/28/24 01:05	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/28/24 01:05	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/28/24 01:05	1
Chloroethane	ND		0.50	0.10	ug/L			08/28/24 01:05	1
Chloroform	ND		0.50	0.090	ug/L			08/28/24 01:05	1
Chloromethane	ND		0.50	0.10	ug/L			08/28/24 01:05	1
cis-1,2-Dichloroethene	0.16	J	0.50	0.080	ug/L			08/28/24 01:05	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/28/24 01:05	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/28/24 01:05	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/28/24 01:05	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/28/24 01:05	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/28/24 01:05	1
Styrene	ND		0.50	0.070	ug/L			08/28/24 01:05	1
Tetrachloroethene	1.4		0.50	0.20	ug/L			08/28/24 01:05	1
Toluene	0.088	J	0.50	0.080	ug/L			08/28/24 01:05	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/28/24 01:05	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/28/24 01:05	1
Trichloroethene	0.21	J	0.50	0.080	ug/L			08/28/24 01:05	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/28/24 01:05	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/28/24 01:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		80 - 120		08/28/24 01:05	1
4-Bromofluorobenzene (Surr)	99		80 - 120		08/28/24 01:05	1
Dibromofluoromethane (Surr)	99		80 - 120		08/28/24 01:05	1
Toluene-d8 (Surr)	103		80 - 120		08/28/24 01:05	1

Client Sample Results

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

Job ID: 410-185105-1

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

Lab Sample ID: 410-185105-6

Date Collected: 08/20/24 11:50

Matrix: Water

Date Received: 08/21/24 15:30

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			08/28/24 01:26	1
1,1,1-Trichloroethane	0.28	J	0.50	0.080	ug/L			08/28/24 01:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/28/24 01:26	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/28/24 01:26	1
1,1-Dichloroethane	0.10	J	0.50	0.10	ug/L			08/28/24 01:26	1
1,1-Dichloroethene	0.14	J	0.50	0.10	ug/L			08/28/24 01:26	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/28/24 01:26	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/28/24 01:26	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/28/24 01:26	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/28/24 01:26	1
2-Hexanone	ND		5.0	2.0	ug/L			08/28/24 01:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/28/24 01:26	1
Acetone	ND		5.0	1.5	ug/L			08/28/24 01:26	1
Benzene	ND		0.50	0.10	ug/L			08/28/24 01:26	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/28/24 01:26	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/28/24 01:26	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			08/28/24 01:26	1
Bromomethane	ND		0.50	0.10	ug/L			08/28/24 01:26	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/28/24 01:26	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/28/24 01:26	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/28/24 01:26	1
Chloroethane	ND		0.50	0.10	ug/L			08/28/24 01:26	1
Chloroform	0.15	J	0.50	0.090	ug/L			08/28/24 01:26	1
Chloromethane	ND		0.50	0.10	ug/L			08/28/24 01:26	1
cis-1,2-Dichloroethene	0.90		0.50	0.080	ug/L			08/28/24 01:26	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/28/24 01:26	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/28/24 01:26	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/28/24 01:26	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/28/24 01:26	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/28/24 01:26	1
Styrene	ND		0.50	0.070	ug/L			08/28/24 01:26	1
Tetrachloroethene	4.6		0.50	0.20	ug/L			08/28/24 01:26	1
Toluene	ND		0.50	0.080	ug/L			08/28/24 01:26	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/28/24 01:26	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/28/24 01:26	1
Trichloroethene	0.95		0.50	0.080	ug/L			08/28/24 01:26	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/28/24 01:26	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/28/24 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		80 - 120		08/28/24 01:26	1
4-Bromofluorobenzene (Surr)	97		80 - 120		08/28/24 01:26	1
Dibromofluoromethane (Surr)	98		80 - 120		08/28/24 01:26	1
Toluene-d8 (Surr)	102		80 - 120		08/28/24 01:26	1

Client Sample Results

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

Job ID: 410-185105-1

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

Lab Sample ID: 410-185105-7

Date Collected: 08/20/24 10:00

Matrix: Water

Date Received: 08/21/24 15:30

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			08/28/24 02:28	1
1,1,1-Trichloroethane	0.17	J	0.50	0.080	ug/L			08/28/24 02:28	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/28/24 02:28	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/28/24 02:28	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/28/24 02:28	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/28/24 02:28	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/28/24 02:28	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/28/24 02:28	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/28/24 02:28	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/28/24 02:28	1
2-Hexanone	ND		5.0	2.0	ug/L			08/28/24 02:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/28/24 02:28	1
Acetone	ND		5.0	1.5	ug/L			08/28/24 02:28	1
Benzene	ND		0.50	0.10	ug/L			08/28/24 02:28	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/28/24 02:28	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/28/24 02:28	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			08/28/24 02:28	1
Bromomethane	ND		0.50	0.10	ug/L			08/28/24 02:28	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/28/24 02:28	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/28/24 02:28	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/28/24 02:28	1
Chloroethane	ND		0.50	0.10	ug/L			08/28/24 02:28	1
Chloroform	0.091	J	0.50	0.090	ug/L			08/28/24 02:28	1
Chloromethane	ND		0.50	0.10	ug/L			08/28/24 02:28	1
cis-1,2-Dichloroethene	0.20	J	0.50	0.080	ug/L			08/28/24 02:28	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/28/24 02:28	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/28/24 02:28	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/28/24 02:28	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/28/24 02:28	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/28/24 02:28	1
Styrene	ND		0.50	0.070	ug/L			08/28/24 02:28	1
Tetrachloroethene	2.4		0.50	0.20	ug/L			08/28/24 02:28	1
Toluene	0.11	J	0.50	0.080	ug/L			08/28/24 02:28	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/28/24 02:28	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/28/24 02:28	1
Trichloroethene	0.23	J	0.50	0.080	ug/L			08/28/24 02:28	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/28/24 02:28	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/28/24 02:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		80 - 120					08/28/24 02:28	1
4-Bromofluorobenzene (Surr)	100		80 - 120					08/28/24 02:28	1
Dibromofluoromethane (Surr)	98		80 - 120					08/28/24 02:28	1
Toluene-d8 (Surr)	104		80 - 120					08/28/24 02:28	1

Client Sample Results

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

Job ID: 410-185105-1

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

Lab Sample ID: 410-185105-8

Date Collected: 08/20/24 10:15

Matrix: Water

Date Received: 08/21/24 15:30

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			08/28/24 04:12	1
1,1,1-Trichloroethane	10		0.50	0.080	ug/L			08/28/24 04:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/28/24 04:12	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/28/24 04:12	1
1,1-Dichloroethane	1.8		0.50	0.10	ug/L			08/28/24 04:12	1
1,1-Dichloroethene	0.80		0.50	0.10	ug/L			08/28/24 04:12	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/28/24 04:12	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/28/24 04:12	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/28/24 04:12	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/28/24 04:12	1
2-Hexanone	ND		5.0	2.0	ug/L			08/28/24 04:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/28/24 04:12	1
Acetone	ND		5.0	1.5	ug/L			08/28/24 04:12	1
Benzene	ND		0.50	0.10	ug/L			08/28/24 04:12	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/28/24 04:12	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/28/24 04:12	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			08/28/24 04:12	1
Bromomethane	ND		0.50	0.10	ug/L			08/28/24 04:12	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/28/24 04:12	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/28/24 04:12	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/28/24 04:12	1
Chloroethane	ND		0.50	0.10	ug/L			08/28/24 04:12	1
Chloroform	0.15	J	0.50	0.090	ug/L			08/28/24 04:12	1
Chloromethane	ND		0.50	0.10	ug/L			08/28/24 04:12	1
cis-1,2-Dichloroethene	2.5		0.50	0.080	ug/L			08/28/24 04:12	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/28/24 04:12	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/28/24 04:12	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/28/24 04:12	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/28/24 04:12	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/28/24 04:12	1
Styrene	ND		0.50	0.070	ug/L			08/28/24 04:12	1
Toluene	ND		0.50	0.080	ug/L			08/28/24 04:12	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/28/24 04:12	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/28/24 04:12	1
Trichloroethene	4.2		0.50	0.080	ug/L			08/28/24 04:12	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/28/24 04:12	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/28/24 04:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		80 - 120		08/28/24 04:12	1
4-Bromofluorobenzene (Surr)	98		80 - 120		08/28/24 04:12	1
Dibromofluoromethane (Surr)	98		80 - 120		08/28/24 04:12	1
Toluene-d8 (Surr)	100		80 - 120		08/28/24 04:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	120		5.0	2.0	ug/L			08/28/24 04:33	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		80 - 120		08/28/24 04:33	10

Client Sample Results

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

Job ID: 410-185105-1

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

Lab Sample ID: 410-185105-8

Date Collected: 08/20/24 10:15

Matrix: Water

Date Received: 08/21/24 15:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		08/28/24 04:33	10
Dibromofluoromethane (Surr)	98		80 - 120		08/28/24 04:33	10
Toluene-d8 (Surr)	103		80 - 120		08/28/24 04:33	10

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

Lab Sample ID: 410-185105-9

Date Collected: 08/20/24 11:02

Matrix: Water

Date Received: 08/21/24 15:30

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			08/28/24 02:49	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/28/24 02:49	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/28/24 02:49	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/28/24 02:49	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/28/24 02:49	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/28/24 02:49	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/28/24 02:49	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/28/24 02:49	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/28/24 02:49	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/28/24 02:49	1
2-Hexanone	ND		5.0	2.0	ug/L			08/28/24 02:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/28/24 02:49	1
Acetone	ND		5.0	1.5	ug/L			08/28/24 02:49	1
Benzene	ND		0.50	0.10	ug/L			08/28/24 02:49	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/28/24 02:49	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/28/24 02:49	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			08/28/24 02:49	1
Bromomethane	ND		0.50	0.10	ug/L			08/28/24 02:49	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/28/24 02:49	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/28/24 02:49	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/28/24 02:49	1
Chloroethane	ND		0.50	0.10	ug/L			08/28/24 02:49	1
Chloroform	0.49	J	0.50	0.090	ug/L			08/28/24 02:49	1
Chloromethane	ND		0.50	0.10	ug/L			08/28/24 02:49	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			08/28/24 02:49	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/28/24 02:49	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/28/24 02:49	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/28/24 02:49	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/28/24 02:49	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/28/24 02:49	1
Styrene	ND		0.50	0.070	ug/L			08/28/24 02:49	1
Tetrachloroethene	2.7		0.50	0.20	ug/L			08/28/24 02:49	1
Toluene	ND		0.50	0.080	ug/L			08/28/24 02:49	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/28/24 02:49	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/28/24 02:49	1
Trichloroethene	0.11	J	0.50	0.080	ug/L			08/28/24 02:49	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/28/24 02:49	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/28/24 02:49	1

Client Sample Results

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

Job ID: 410-185105-1

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

Lab Sample ID: 410-185105-9

Date Collected: 08/20/24 11:02

Matrix: Water

Date Received: 08/21/24 15:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		80 - 120		08/28/24 02:49	1
4-Bromofluorobenzene (Surr)	99		80 - 120		08/28/24 02:49	1
Dibromofluoromethane (Surr)	97		80 - 120		08/28/24 02:49	1
Toluene-d8 (Surr)	102		80 - 120		08/28/24 02:49	1

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

Lab Sample ID: 410-185105-10

Date Collected: 08/20/24 11:37

Matrix: Water

Date Received: 08/21/24 15:30

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			08/28/24 03:10	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/28/24 03:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/28/24 03:10	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/28/24 03:10	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/28/24 03:10	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/28/24 03:10	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/28/24 03:10	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/28/24 03:10	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/28/24 03:10	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/28/24 03:10	1
2-Hexanone	ND		5.0	2.0	ug/L			08/28/24 03:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/28/24 03:10	1
Acetone	1.5	J	5.0	1.5	ug/L			08/28/24 03:10	1
Benzene	ND		0.50	0.10	ug/L			08/28/24 03:10	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/28/24 03:10	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/28/24 03:10	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			08/28/24 03:10	1
Bromomethane	ND		0.50	0.10	ug/L			08/28/24 03:10	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/28/24 03:10	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/28/24 03:10	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/28/24 03:10	1
Chloroethane	ND		0.50	0.10	ug/L			08/28/24 03:10	1
Chloroform	0.11	J	0.50	0.090	ug/L			08/28/24 03:10	1
Chloromethane	ND		0.50	0.10	ug/L			08/28/24 03:10	1
cis-1,2-Dichloroethene	0.096	J	0.50	0.080	ug/L			08/28/24 03:10	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/28/24 03:10	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/28/24 03:10	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/28/24 03:10	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/28/24 03:10	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/28/24 03:10	1
Styrene	ND		0.50	0.070	ug/L			08/28/24 03:10	1
Tetrachloroethene	ND		0.50	0.20	ug/L			08/28/24 03:10	1
Toluene	ND		0.50	0.080	ug/L			08/28/24 03:10	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/28/24 03:10	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/28/24 03:10	1
Trichloroethene	0.13	J	0.50	0.080	ug/L			08/28/24 03:10	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/28/24 03:10	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/28/24 03:10	1

Client Sample Results

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

Job ID: 410-185105-1

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

Lab Sample ID: 410-185105-10

Date Collected: 08/20/24 11:37

Matrix: Water

Date Received: 08/21/24 15:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		80 - 120		08/28/24 03:10	1
4-Bromofluorobenzene (Surr)	98		80 - 120		08/28/24 03:10	1
Dibromofluoromethane (Surr)	98		80 - 120		08/28/24 03:10	1
Toluene-d8 (Surr)	102		80 - 120		08/28/24 03:10	1

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

Lab Sample ID: 410-185105-11

Date Collected: 08/20/24 13:05

Matrix: Water

Date Received: 08/21/24 15:30

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			08/28/24 03:31	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/28/24 03:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/28/24 03:31	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/28/24 03:31	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/28/24 03:31	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/28/24 03:31	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/28/24 03:31	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/28/24 03:31	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/28/24 03:31	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/28/24 03:31	1
2-Hexanone	ND		5.0	2.0	ug/L			08/28/24 03:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/28/24 03:31	1
Acetone	1.9	J	5.0	1.5	ug/L			08/28/24 03:31	1
Benzene	ND		0.50	0.10	ug/L			08/28/24 03:31	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/28/24 03:31	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/28/24 03:31	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			08/28/24 03:31	1
Bromomethane	ND		0.50	0.10	ug/L			08/28/24 03:31	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/28/24 03:31	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/28/24 03:31	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/28/24 03:31	1
Chloroethane	ND		0.50	0.10	ug/L			08/28/24 03:31	1
Chloroform	ND		0.50	0.090	ug/L			08/28/24 03:31	1
Chloromethane	ND		0.50	0.10	ug/L			08/28/24 03:31	1
cis-1,2-Dichloroethene	0.099	J	0.50	0.080	ug/L			08/28/24 03:31	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/28/24 03:31	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/28/24 03:31	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/28/24 03:31	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/28/24 03:31	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/28/24 03:31	1
Styrene	ND		0.50	0.070	ug/L			08/28/24 03:31	1
Tetrachloroethene	ND		0.50	0.20	ug/L			08/28/24 03:31	1
Toluene	0.15	J	0.50	0.080	ug/L			08/28/24 03:31	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/28/24 03:31	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/28/24 03:31	1
Trichloroethene	0.091	J	0.50	0.080	ug/L			08/28/24 03:31	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/28/24 03:31	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/28/24 03:31	1

Client Sample Results

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

Job ID: 410-185105-1

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

Lab Sample ID: 410-185105-11

Date Collected: 08/20/24 13:05

Matrix: Water

Date Received: 08/21/24 15:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		80 - 120		08/28/24 03:31	1
4-Bromofluorobenzene (Surr)	99		80 - 120		08/28/24 03:31	1
Dibromofluoromethane (Surr)	98		80 - 120		08/28/24 03:31	1
Toluene-d8 (Surr)	103		80 - 120		08/28/24 03:31	1

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

Lab Sample ID: 410-185105-12

Date Collected: 08/20/24 09:00

Matrix: Water

Date Received: 08/21/24 15:30

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			08/28/24 03:52	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/28/24 03:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/28/24 03:52	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/28/24 03:52	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/28/24 03:52	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/28/24 03:52	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/28/24 03:52	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/28/24 03:52	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/28/24 03:52	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/28/24 03:52	1
2-Hexanone	ND		5.0	2.0	ug/L			08/28/24 03:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/28/24 03:52	1
Acetone	ND		5.0	1.5	ug/L			08/28/24 03:52	1
Benzene	ND		0.50	0.10	ug/L			08/28/24 03:52	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/28/24 03:52	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/28/24 03:52	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			08/28/24 03:52	1
Bromomethane	ND		0.50	0.10	ug/L			08/28/24 03:52	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/28/24 03:52	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/28/24 03:52	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/28/24 03:52	1
Chloroethane	ND		0.50	0.10	ug/L			08/28/24 03:52	1
Chloroform	0.094	J	0.50	0.090	ug/L			08/28/24 03:52	1
Chloromethane	ND		0.50	0.10	ug/L			08/28/24 03:52	1
cis-1,2-Dichloroethene	0.15	J	0.50	0.080	ug/L			08/28/24 03:52	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/28/24 03:52	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/28/24 03:52	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/28/24 03:52	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/28/24 03:52	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/28/24 03:52	1
Styrene	ND		0.50	0.070	ug/L			08/28/24 03:52	1
Tetrachloroethene	0.55		0.50	0.20	ug/L			08/28/24 03:52	1
Toluene	0.12	J	0.50	0.080	ug/L			08/28/24 03:52	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/28/24 03:52	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/28/24 03:52	1
Trichloroethene	0.21	J	0.50	0.080	ug/L			08/28/24 03:52	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/28/24 03:52	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/28/24 03:52	1

Client Sample Results

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

Job ID: 410-185105-1

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

Lab Sample ID: 410-185105-12

Date Collected: 08/20/24 09:00

Matrix: Water

Date Received: 08/21/24 15:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		80 - 120		08/28/24 03:52	1
4-Bromofluorobenzene (Surr)	97		80 - 120		08/28/24 03:52	1
Dibromofluoromethane (Surr)	97		80 - 120		08/28/24 03:52	1
Toluene-d8 (Surr)	103		80 - 120		08/28/24 03:52	1

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

Lab Sample ID: 410-185105-13

Date Collected: 08/20/24 12:00

Matrix: Water

Date Received: 08/21/24 15:30

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			08/28/24 04:54	1
1,1,1-Trichloroethane	10		0.50	0.080	ug/L			08/28/24 04:54	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/28/24 04:54	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/28/24 04:54	1
1,1-Dichloroethane	1.8		0.50	0.10	ug/L			08/28/24 04:54	1
1,1-Dichloroethene	0.79		0.50	0.10	ug/L			08/28/24 04:54	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/28/24 04:54	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/28/24 04:54	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/28/24 04:54	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/28/24 04:54	1
2-Hexanone	ND		5.0	2.0	ug/L			08/28/24 04:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/28/24 04:54	1
Acetone	ND		5.0	1.5	ug/L			08/28/24 04:54	1
Benzene	ND		0.50	0.10	ug/L			08/28/24 04:54	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/28/24 04:54	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/28/24 04:54	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			08/28/24 04:54	1
Bromomethane	ND		0.50	0.10	ug/L			08/28/24 04:54	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/28/24 04:54	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/28/24 04:54	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/28/24 04:54	1
Chloroethane	ND		0.50	0.10	ug/L			08/28/24 04:54	1
Chloroform	0.14	J	0.50	0.090	ug/L			08/28/24 04:54	1
Chloromethane	ND		0.50	0.10	ug/L			08/28/24 04:54	1
cis-1,2-Dichloroethene	2.7		0.50	0.080	ug/L			08/28/24 04:54	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/28/24 04:54	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/28/24 04:54	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/28/24 04:54	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/28/24 04:54	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/28/24 04:54	1
Styrene	ND		0.50	0.070	ug/L			08/28/24 04:54	1
Toluene	ND		0.50	0.080	ug/L			08/28/24 04:54	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/28/24 04:54	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/28/24 04:54	1
Trichloroethene	4.2		0.50	0.080	ug/L			08/28/24 04:54	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/28/24 04:54	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/28/24 04:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		80 - 120		08/28/24 04:54	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

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

Job ID: 410-185105-1

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

Lab Sample ID: 410-185105-13

Date Collected: 08/20/24 12:00

Matrix: Water

Date Received: 08/21/24 15:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120		08/28/24 04:54	1
Dibromofluoromethane (Surr)	97		80 - 120		08/28/24 04:54	1
Toluene-d8 (Surr)	100		80 - 120		08/28/24 04:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	120		5.0	2.0	ug/L			08/28/24 05:14	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		80 - 120		08/28/24 05:14	10
4-Bromofluorobenzene (Surr)	98		80 - 120		08/28/24 05:14	10
Dibromofluoromethane (Surr)	98		80 - 120		08/28/24 05:14	10
Toluene-d8 (Surr)	103		80 - 120		08/28/24 05:14	10

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

Lab Sample ID: 410-185105-14

Date Collected: 08/20/24 08:00

Matrix: Water

Date Received: 08/21/24 15:30

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			08/27/24 23:22	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/27/24 23:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/27/24 23:22	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/27/24 23:22	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/27/24 23:22	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/27/24 23:22	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/27/24 23:22	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/27/24 23:22	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/27/24 23:22	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/27/24 23:22	1
2-Hexanone	ND		5.0	2.0	ug/L			08/27/24 23:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/27/24 23:22	1
Acetone	ND		5.0	1.5	ug/L			08/27/24 23:22	1
Benzene	ND		0.50	0.10	ug/L			08/27/24 23:22	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/27/24 23:22	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/27/24 23:22	1
Bromoform	ND	^c cn	1.0	0.30	ug/L			08/27/24 23:22	1
Bromomethane	ND		0.50	0.10	ug/L			08/27/24 23:22	1
Carbon disulfide	0.62	J	1.0	0.10	ug/L			08/27/24 23:22	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/27/24 23:22	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/27/24 23:22	1
Chloroethane	ND		0.50	0.10	ug/L			08/27/24 23:22	1
Chloroform	ND		0.50	0.090	ug/L			08/27/24 23:22	1
Chloromethane	ND		0.50	0.10	ug/L			08/27/24 23:22	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			08/27/24 23:22	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/27/24 23:22	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/27/24 23:22	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/27/24 23:22	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/27/24 23:22	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/27/24 23:22	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

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

Job ID: 410-185105-1

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

Lab Sample ID: 410-185105-14

Date Collected: 08/20/24 08:00

Matrix: Water

Date Received: 08/21/24 15:30

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			08/27/24 23:22	1
Tetrachloroethene	ND		0.50	0.20	ug/L			08/27/24 23:22	1
Toluene	ND		0.50	0.080	ug/L			08/27/24 23:22	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/27/24 23:22	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/27/24 23:22	1
Trichloroethene	ND		0.50	0.080	ug/L			08/27/24 23:22	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/27/24 23:22	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/27/24 23:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		80 - 120		08/27/24 23:22	1
4-Bromofluorobenzene (Surr)	101		80 - 120		08/27/24 23:22	1
Dibromofluoromethane (Surr)	97		80 - 120		08/27/24 23:22	1
Toluene-d8 (Surr)	104		80 - 120		08/27/24 23:22	1

Default Detection Limits

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

Job ID: 410-185105-1

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

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

Surrogate Summary

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

Job ID: 410-185105-1

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)
410-185105-1	HD-COD-SW-6-0/1-0	95	98	98	103
410-185105-2	HD-COD-SW-7-0/1-0	96	97	99	103
410-185105-3	HD-COD-SW-8-0/1-0	94	99	98	104
410-185105-4	HD-COD-SW-9-0/1-0	95	99	97	104
410-185105-5	HD-COD-SW-13-0/1-0	97	99	99	103
410-185105-6	HD-COD-SW-15-0/1-0	97	97	98	102
410-185105-6 MS	HD-COD-SW-15-0/1-0 MS	94	101	97	105
410-185105-6 MSD	HD-COD-SW-15-0/1-0 MSD	94	101	97	104
410-185105-7	HD-COD-SW-16-0/1-0	93	100	98	104
410-185105-8	HD-COD-SW-17-0/1-0	95	98	98	100
410-185105-8 - DL	HD-COD-SW-17-0/1-0	95	100	98	103
410-185105-9	HD-COD-SW-26-0/1-0	98	99	97	102
410-185105-10	HD-COD-SW-27-0/1-0	96	98	98	102
410-185105-11	HD-COD-SW-28-0/1-0	96	99	98	103
410-185105-12	HD-COD-SW-29-0/1-0	92	97	97	103
410-185105-13	HD-QC1-0/1-1	96	98	97	100
410-185105-13 - DL	HD-QC1-0/1-1	94	98	98	103
410-185105-14	HD-QC1-0/1-2	97	101	97	104
LCS 410-545038/4	Lab Control Sample	93	101	97	104
LCSD 410-545038/5	Lab Control Sample Dup	92	101	96	105
MB 410-545038/7	Method Blank	95	100	97	102

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

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

Job ID: 410-185105-1

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

Lab Sample ID: MB 410-545038/7

Matrix: Water

Analysis Batch: 545038

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			08/27/24 22:40	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/27/24 22:40	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/27/24 22:40	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/27/24 22:40	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/27/24 22:40	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/27/24 22:40	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/27/24 22:40	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/27/24 22:40	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/27/24 22:40	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/27/24 22:40	1
2-Hexanone	ND		5.0	2.0	ug/L			08/27/24 22:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/27/24 22:40	1
Acetone	ND		5.0	1.5	ug/L			08/27/24 22:40	1
Benzene	ND		0.50	0.10	ug/L			08/27/24 22:40	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/27/24 22:40	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/27/24 22:40	1
Bromoform	ND		1.0	0.30	ug/L			08/27/24 22:40	1
Bromomethane	ND		0.50	0.10	ug/L			08/27/24 22:40	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/27/24 22:40	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/27/24 22:40	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/27/24 22:40	1
Chloroethane	ND		0.50	0.10	ug/L			08/27/24 22:40	1
Chloroform	ND		0.50	0.090	ug/L			08/27/24 22:40	1
Chloromethane	ND		0.50	0.10	ug/L			08/27/24 22:40	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			08/27/24 22:40	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/27/24 22:40	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/27/24 22:40	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/27/24 22:40	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/27/24 22:40	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/27/24 22:40	1
Styrene	ND		0.50	0.070	ug/L			08/27/24 22:40	1
Tetrachloroethene	ND		0.50	0.20	ug/L			08/27/24 22:40	1
Toluene	ND		0.50	0.080	ug/L			08/27/24 22:40	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/27/24 22:40	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/27/24 22:40	1
Trichloroethene	ND		0.50	0.080	ug/L			08/27/24 22:40	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/27/24 22:40	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/27/24 22:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		80 - 120		08/27/24 22:40	1
4-Bromofluorobenzene (Surr)	100		80 - 120		08/27/24 22:40	1
Dibromofluoromethane (Surr)	97		80 - 120		08/27/24 22:40	1
Toluene-d8 (Surr)	102		80 - 120		08/27/24 22:40	1

QC Sample Results

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

Job ID: 410-185105-1

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

Lab Sample ID: LCS 410-545038/4

Matrix: Water

Analysis Batch: 545038

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	4.48		ug/L		90	80 - 122
1,1,1-Trichloroethane	5.00	4.68		ug/L		94	78 - 126
1,1,2,2-Tetrachloroethane	5.00	4.51		ug/L		90	75 - 123
1,1,2-Trichloroethane	5.00	4.36		ug/L		87	80 - 120
1,1-Dichloroethane	5.00	4.97		ug/L		99	74 - 120
1,1-Dichloroethene	5.00	4.82		ug/L		96	80 - 131
1,2-Dibromoethane (EDB)	5.00	4.30		ug/L		86	80 - 120
1,2-Dichloroethane	5.00	4.39		ug/L		88	69 - 122
1,2-Dichloropropane	5.00	4.87		ug/L		97	80 - 120
2-Butanone (MEK)	62.5	58.4		ug/L		93	59 - 141
2-Hexanone	62.5	56.6		ug/L		91	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	56.6		ug/L		91	55 - 140
Acetone	62.5	52.3		ug/L		84	60 - 146
Benzene	5.00	4.66		ug/L		93	80 - 120
Bromochloromethane	5.00	4.32		ug/L		86	80 - 133
Bromodichloromethane	5.00	4.52		ug/L		90	80 - 123
Bromoform	5.00	4.01		ug/L		80	75 - 126
Bromomethane	5.00	4.36		ug/L		87	63 - 120
Carbon disulfide	5.00	4.87		ug/L		97	67 - 130
Carbon tetrachloride	5.00	4.68		ug/L		94	64 - 141
Chlorobenzene	5.00	4.49		ug/L		90	80 - 120
Chloroethane	5.00	4.67		ug/L		93	63 - 120
Chloroform	5.00	4.62		ug/L		92	80 - 120
Chloromethane	5.00	4.84		ug/L		97	56 - 124
cis-1,2-Dichloroethene	5.00	4.55		ug/L		91	80 - 122
cis-1,3-Dichloropropene	5.00	4.26		ug/L		85	67 - 121
Dibromochloromethane	5.00	4.39		ug/L		88	80 - 123
Ethylbenzene	5.00	4.63		ug/L		93	80 - 120
Methyl tert-butyl ether	5.00	4.27		ug/L		85	69 - 120
Methylene Chloride	5.00	4.42		ug/L		88	80 - 120
Styrene	5.00	4.62		ug/L		92	80 - 120
Tetrachloroethene	5.00	4.30		ug/L		86	80 - 120
Toluene	5.00	4.57		ug/L		91	80 - 120
trans-1,2-Dichloroethene	5.00	4.66		ug/L		93	80 - 122
trans-1,3-Dichloropropene	5.00	4.51		ug/L		90	61 - 129
Trichloroethene	5.00	4.42		ug/L		88	80 - 120
Vinyl chloride	5.00	4.71		ug/L		94	60 - 125
Xylenes, Total	15.0	13.9		ug/L		92	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	97		80 - 120
Toluene-d8 (Surr)	104		80 - 120

QC Sample Results

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

Job ID: 410-185105-1

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

Lab Sample ID: LCSD 410-545038/5

Matrix: Water

Analysis Batch: 545038

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	5.00	4.43		ug/L		89	80 - 122	1	30
1,1,1-Trichloroethane	5.00	4.61		ug/L		92	78 - 126	2	30
1,1,2,2-Tetrachloroethane	5.00	4.53		ug/L		91	75 - 123	0	30
1,1,2-Trichloroethane	5.00	4.38		ug/L		88	80 - 120	1	30
1,1-Dichloroethane	5.00	4.84		ug/L		97	74 - 120	3	30
1,1-Dichloroethene	5.00	4.79		ug/L		96	80 - 131	1	30
1,2-Dibromoethane (EDB)	5.00	4.23		ug/L		85	80 - 120	2	30
1,2-Dichloroethane	5.00	4.44		ug/L		89	69 - 122	1	30
1,2-Dichloropropane	5.00	4.75		ug/L		95	80 - 120	3	30
2-Butanone (MEK)	62.5	64.1		ug/L		102	59 - 141	9	30
2-Hexanone	62.5	59.4		ug/L		95	52 - 140	5	30
4-Methyl-2-pentanone (MIBK)	62.5	58.8		ug/L		94	55 - 140	4	30
Acetone	62.5	54.4		ug/L		87	60 - 146	4	30
Benzene	5.00	4.58		ug/L		92	80 - 120	2	30
Bromochloromethane	5.00	4.31		ug/L		86	80 - 133	0	30
Bromodichloromethane	5.00	4.50		ug/L		90	80 - 123	0	30
Bromoform	5.00	3.98		ug/L		80	75 - 126	1	30
Bromomethane	5.00	4.28		ug/L		86	63 - 120	2	30
Carbon disulfide	5.00	4.76		ug/L		95	67 - 130	2	30
Carbon tetrachloride	5.00	4.54		ug/L		91	64 - 141	3	30
Chlorobenzene	5.00	4.49		ug/L		90	80 - 120	0	30
Chloroethane	5.00	4.59		ug/L		92	63 - 120	2	30
Chloroform	5.00	4.52		ug/L		90	80 - 120	2	30
Chloromethane	5.00	4.86		ug/L		97	56 - 124	1	30
cis-1,2-Dichloroethene	5.00	4.51		ug/L		90	80 - 122	1	30
cis-1,3-Dichloropropene	5.00	4.22		ug/L		84	67 - 121	1	30
Dibromochloromethane	5.00	4.38		ug/L		88	80 - 123	0	30
Ethylbenzene	5.00	4.58		ug/L		92	80 - 120	1	30
Methyl tert-butyl ether	5.00	4.23		ug/L		85	69 - 120	1	30
Methylene Chloride	5.00	4.38		ug/L		88	80 - 120	1	30
Styrene	5.00	4.58		ug/L		92	80 - 120	1	30
Tetrachloroethene	5.00	4.30		ug/L		86	80 - 120	0	30
Toluene	5.00	4.54		ug/L		91	80 - 120	1	30
trans-1,2-Dichloroethene	5.00	4.56		ug/L		91	80 - 122	2	30
trans-1,3-Dichloropropene	5.00	4.47		ug/L		89	61 - 129	1	30
Trichloroethene	5.00	4.34		ug/L		87	80 - 120	2	30
Vinyl chloride	5.00	4.60		ug/L		92	60 - 125	2	30
Xylenes, Total	15.0	13.8		ug/L		92	80 - 120	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	96		80 - 120
Toluene-d8 (Surr)	105		80 - 120

QC Sample Results

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

Job ID: 410-185105-1

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

Lab Sample ID: 410-185105-6 MS

Matrix: Water

Analysis Batch: 545038

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	4.53		ug/L		90	80 - 122
1,1,1-Trichloroethane	0.28	J	5.00	5.45		ug/L		103	78 - 126
1,1,2,2-Tetrachloroethane	ND		5.00	4.42		ug/L		88	75 - 123
1,1,2-Trichloroethane	ND		5.00	4.33		ug/L		86	80 - 120
1,1-Dichloroethane	0.10	J	5.00	5.29		ug/L		106	74 - 120
1,1-Dichloroethene	0.14	J	5.00	5.75		ug/L		112	80 - 131
1,2-Dibromoethane (EDB)	ND		5.00	4.25		ug/L		85	80 - 120
1,2-Dichloroethane	ND		5.00	4.39		ug/L		88	69 - 122
1,2-Dichloropropane	ND		5.00	5.04		ug/L		101	80 - 120
2-Butanone (MEK)	ND		62.6	60.4		ug/L		97	59 - 141
2-Hexanone	ND		62.6	59.5		ug/L		95	52 - 140
4-Methyl-2-pentanone (MIBK)	ND		62.6	58.6		ug/L		94	55 - 140
Acetone	ND		62.6	53.3		ug/L		85	60 - 146
Benzene	ND		5.00	4.90		ug/L		98	80 - 120
Bromochloromethane	ND		5.00	4.42		ug/L		88	80 - 133
Bromodichloromethane	ND		5.00	4.54		ug/L		91	80 - 123
Bromoform	ND	^c cn	5.00	3.84		ug/L		77	75 - 126
Bromomethane	ND		5.00	5.23		ug/L		105	63 - 120
Carbon disulfide	ND		5.00	5.57		ug/L		111	67 - 130
Carbon tetrachloride	ND		5.00	5.23		ug/L		104	64 - 141
Chlorobenzene	ND		5.00	4.66		ug/L		93	80 - 120
Chloroethane	ND		5.00	5.67		ug/L		113	63 - 120
Chloroform	0.15	J	5.00	4.95		ug/L		96	80 - 120
Chloromethane	ND		5.00	5.94		ug/L		119	80 - 120
cis-1,2-Dichloroethene	0.90		5.00	5.76		ug/L		97	80 - 122
cis-1,3-Dichloropropene	ND		5.00	4.26		ug/L		85	67 - 121
Dibromochloromethane	ND		5.00	4.34		ug/L		87	80 - 123
Ethylbenzene	ND		5.00	4.86		ug/L		97	80 - 120
Methyl tert-butyl ether	ND		5.00	4.32		ug/L		86	69 - 120
Methylene Chloride	ND		5.00	4.66		ug/L		93	80 - 120
Styrene	ND		5.00	4.70		ug/L		94	80 - 120
Tetrachloroethene	4.6		5.00	9.48		ug/L		98	80 - 120
Toluene	ND		5.00	4.85		ug/L		97	80 - 120
trans-1,2-Dichloroethene	ND		5.00	5.03		ug/L		100	80 - 122
trans-1,3-Dichloropropene	ND		5.00	4.32		ug/L		86	61 - 129
Trichloroethene	0.95		5.00	5.63		ug/L		94	80 - 120
Vinyl chloride	ND		5.00	6.01		ug/L		120	60 - 125
Xylenes, Total	ND		15.0	14.4		ug/L		96	80 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	97		80 - 120
Toluene-d8 (Surr)	105		80 - 120

QC Sample Results

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

Job ID: 410-185105-1

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

Lab Sample ID: 410-185105-6 MSD

Matrix: Water

Analysis Batch: 545038

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	4.50		ug/L		90	80 - 122	1	30
1,1,1-Trichloroethane	0.28	J	5.00	5.36		ug/L		101	78 - 126	2	30
1,1,2,2-Tetrachloroethane	ND		5.00	4.39		ug/L		88	75 - 123	1	30
1,1,2-Trichloroethane	ND		5.00	4.36		ug/L		87	80 - 120	1	30
1,1-Dichloroethane	0.10	J	5.00	5.31		ug/L		106	74 - 120	0	30
1,1-Dichloroethene	0.14	J	5.00	5.66		ug/L		110	80 - 131	2	30
1,2-Dibromoethane (EDB)	ND		5.00	4.30		ug/L		86	80 - 120	1	30
1,2-Dichloroethane	ND		5.00	4.44		ug/L		89	69 - 122	1	30
1,2-Dichloropropane	ND		5.00	4.93		ug/L		98	80 - 120	2	30
2-Butanone (MEK)	ND		62.6	59.7		ug/L		95	59 - 141	1	30
2-Hexanone	ND		62.6	62.1		ug/L		99	52 - 140	4	30
4-Methyl-2-pentanone (MIBK)	ND		62.6	60.9		ug/L		97	55 - 140	4	30
Acetone	ND		62.6	53.1		ug/L		85	60 - 146	0	30
Benzene	ND		5.00	4.85		ug/L		97	80 - 120	1	30
Bromochloromethane	ND		5.00	4.39		ug/L		88	80 - 133	1	30
Bromodichloromethane	ND		5.00	4.48		ug/L		90	80 - 123	1	30
Bromoform	ND	^c cn	5.00	3.90		ug/L		78	75 - 126	1	30
Bromomethane	ND		5.00	5.03		ug/L		100	63 - 120	4	30
Carbon disulfide	ND		5.00	5.50		ug/L		110	67 - 130	1	30
Carbon tetrachloride	ND		5.00	5.08		ug/L		101	64 - 141	3	30
Chlorobenzene	ND		5.00	4.58		ug/L		92	80 - 120	2	30
Chloroethane	ND		5.00	5.55		ug/L		111	63 - 120	2	30
Chloroform	0.15	J	5.00	4.83		ug/L		93	80 - 120	2	30
Chloromethane	ND		5.00	5.55		ug/L		111	80 - 120	7	30
cis-1,2-Dichloroethene	0.90		5.00	5.65		ug/L		95	80 - 122	2	30
cis-1,3-Dichloropropene	ND		5.00	4.24		ug/L		85	67 - 121	0	30
Dibromochloromethane	ND		5.00	4.31		ug/L		86	80 - 123	1	30
Ethylbenzene	ND		5.00	4.78		ug/L		95	80 - 120	2	30
Methyl tert-butyl ether	ND		5.00	4.23		ug/L		85	69 - 120	2	30
Methylene Chloride	ND		5.00	4.63		ug/L		93	80 - 120	1	30
Styrene	ND		5.00	4.68		ug/L		94	80 - 120	0	30
Tetrachloroethene	4.6		5.00	9.41		ug/L		97	80 - 120	1	30
Toluene	ND		5.00	4.80		ug/L		96	80 - 120	1	30
trans-1,2-Dichloroethene	ND		5.00	5.01		ug/L		100	80 - 122	0	30
trans-1,3-Dichloropropene	ND		5.00	4.37		ug/L		87	61 - 129	1	30
Trichloroethene	0.95		5.00	5.58		ug/L		93	80 - 120	1	30
Vinyl chloride	ND		5.00	5.89		ug/L		118	60 - 125	2	30
Xylenes, Total	ND		15.0	14.2		ug/L		95	80 - 120	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	97		80 - 120
Toluene-d8 (Surr)	104		80 - 120

QC Association Summary

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

Job ID: 410-185105-1

GC/MS VOA

Analysis Batch: 545038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-185105-1	HD-COD-SW-6-0/1-0	Total/NA	Water	8260D	
410-185105-2	HD-COD-SW-7-0/1-0	Total/NA	Water	8260D	
410-185105-3	HD-COD-SW-8-0/1-0	Total/NA	Water	8260D	
410-185105-4	HD-COD-SW-9-0/1-0	Total/NA	Water	8260D	
410-185105-5	HD-COD-SW-13-0/1-0	Total/NA	Water	8260D	
410-185105-6	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	
410-185105-7	HD-COD-SW-16-0/1-0	Total/NA	Water	8260D	
410-185105-8	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-185105-8 - DL	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-185105-9	HD-COD-SW-26-0/1-0	Total/NA	Water	8260D	
410-185105-10	HD-COD-SW-27-0/1-0	Total/NA	Water	8260D	
410-185105-11	HD-COD-SW-28-0/1-0	Total/NA	Water	8260D	
410-185105-12	HD-COD-SW-29-0/1-0	Total/NA	Water	8260D	
410-185105-13	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-185105-13 - DL	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-185105-14	HD-QC1-0/1-2	Total/NA	Water	8260D	
MB 410-545038/7	Method Blank	Total/NA	Water	8260D	
LCS 410-545038/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-545038/5	Lab Control Sample Dup	Total/NA	Water	8260D	
410-185105-6 MS	HD-COD-SW-15-0/1-0 MS	Total/NA	Water	8260D	
410-185105-6 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: 410-185105-1

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

Lab Sample ID: 410-185105-1

Date Collected: 08/20/24 10:40

Matrix: Water

Date Received: 08/21/24 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	545038	JS6E	ELLE	08/27/24 23:43

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

Lab Sample ID: 410-185105-2

Date Collected: 08/20/24 11:23

Matrix: Water

Date Received: 08/21/24 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	545038	JS6E	ELLE	08/28/24 00:04

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

Lab Sample ID: 410-185105-3

Date Collected: 08/20/24 09:15

Matrix: Water

Date Received: 08/21/24 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	545038	JS6E	ELLE	08/28/24 00:24

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

Lab Sample ID: 410-185105-4

Date Collected: 08/20/24 12:53

Matrix: Water

Date Received: 08/21/24 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	545038	JS6E	ELLE	08/28/24 00:45

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

Lab Sample ID: 410-185105-5

Date Collected: 08/20/24 09:38

Matrix: Water

Date Received: 08/21/24 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	545038	JS6E	ELLE	08/28/24 01:05

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

Lab Sample ID: 410-185105-6

Date Collected: 08/20/24 11:50

Matrix: Water

Date Received: 08/21/24 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	545038	JS6E	ELLE	08/28/24 01:26

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

Lab Sample ID: 410-185105-7

Date Collected: 08/20/24 10:00

Matrix: Water

Date Received: 08/21/24 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	545038	JS6E	ELLE	08/28/24 02:28

Lab Chronicle

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

Job ID: 410-185105-1

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

Lab Sample ID: 410-185105-8

Date Collected: 08/20/24 10:15

Matrix: Water

Date Received: 08/21/24 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	545038	JS6E	ELLE	08/28/24 04:12
Total/NA	Analysis	8260D	DL	10	545038	JS6E	ELLE	08/28/24 04:33

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

Lab Sample ID: 410-185105-9

Date Collected: 08/20/24 11:02

Matrix: Water

Date Received: 08/21/24 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	545038	JS6E	ELLE	08/28/24 02:49

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

Lab Sample ID: 410-185105-10

Date Collected: 08/20/24 11:37

Matrix: Water

Date Received: 08/21/24 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	545038	JS6E	ELLE	08/28/24 03:10

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

Lab Sample ID: 410-185105-11

Date Collected: 08/20/24 13:05

Matrix: Water

Date Received: 08/21/24 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	545038	JS6E	ELLE	08/28/24 03:31

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

Lab Sample ID: 410-185105-12

Date Collected: 08/20/24 09:00

Matrix: Water

Date Received: 08/21/24 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	545038	JS6E	ELLE	08/28/24 03:52

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

Lab Sample ID: 410-185105-13

Date Collected: 08/20/24 12:00

Matrix: Water

Date Received: 08/21/24 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	545038	JS6E	ELLE	08/28/24 04:54
Total/NA	Analysis	8260D	DL	10	545038	JS6E	ELLE	08/28/24 05:14

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

Lab Sample ID: 410-185105-14

Date Collected: 08/20/24 08:00

Matrix: Water

Date Received: 08/21/24 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	545038	JS6E	ELLE	08/27/24 23:22

Lab Chronicle

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

Job ID: 410-185105-1

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: 410-185105-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

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

Method Summary

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

Job ID: 410-185105-1

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: 410-185105-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-185105-1	HD-COD-SW-6-0/1-0	Water	08/20/24 10:40	08/21/24 15:30
410-185105-2	HD-COD-SW-7-0/1-0	Water	08/20/24 11:23	08/21/24 15:30
410-185105-3	HD-COD-SW-8-0/1-0	Water	08/20/24 09:15	08/21/24 15:30
410-185105-4	HD-COD-SW-9-0/1-0	Water	08/20/24 12:53	08/21/24 15:30
410-185105-5	HD-COD-SW-13-0/1-0	Water	08/20/24 09:38	08/21/24 15:30
410-185105-6	HD-COD-SW-15-0/1-0	Water	08/20/24 11:50	08/21/24 15:30
410-185105-7	HD-COD-SW-16-0/1-0	Water	08/20/24 10:00	08/21/24 15:30
410-185105-8	HD-COD-SW-17-0/1-0	Water	08/20/24 10:15	08/21/24 15:30
410-185105-9	HD-COD-SW-26-0/1-0	Water	08/20/24 11:02	08/21/24 15:30
410-185105-10	HD-COD-SW-27-0/1-0	Water	08/20/24 11:37	08/21/24 15:30
410-185105-11	HD-COD-SW-28-0/1-0	Water	08/20/24 13:05	08/21/24 15:30
410-185105-12	HD-COD-SW-29-0/1-0	Water	08/20/24 09:00	08/21/24 15:30
410-185105-13	HD-QC1-0/1-1	Water	08/20/24 12:00	08/21/24 15:30
410-185105-14	HD-QC1-0/1-2	Water	08/20/24 08:00	08/21/24 15:30

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Instrument ID: 19094

Analysis Batch Number: 529291

Lab Sample ID: IC 410-529291/3

Client Sample ID:

Date Analyzed: 07/17/24 14:03

Lab File ID: HL17X02.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.81	Incomplete Integration	DVW2	07/18/24 08:33
Vinyl acetate	5.10	Incomplete Integration	DVW2	07/18/24 08:33

Lab Sample ID: IC 410-529291/4

Client Sample ID:

Date Analyzed: 07/17/24 14:24

Lab File ID: HL17X03.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	4.17	Incomplete Integration	DVW2	07/18/24 08:32
Vinyl acetate	5.07	Incomplete Integration	DVW2	07/18/24 08:32
Ethyl acetate	5.98	Incomplete Integration	DVW2	07/18/24 08:32

Lab Sample ID: IC 410-529291/5

Client Sample ID:

Date Analyzed: 07/17/24 14:44

Lab File ID: HL17X04.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.82	Incomplete Integration	DVW2	07/18/24 08:31
Vinyl acetate	5.06	Incomplete Integration	DVW2	07/18/24 08:34

Lab Sample ID: IC 410-529291/6

Client Sample ID:

Date Analyzed: 07/17/24 15:05

Lab File ID: HL17X05.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.83	Incomplete Integration	DVW2	07/18/24 08:34
Vinyl acetate	5.04	Other	UKEK	07/18/24 21:47
Ethyl acetate	5.93	Incomplete Integration	DVW2	07/18/24 08:34

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Instrument ID: 19094

Analysis Batch Number: 529291

Lab Sample ID: IC 410-529291/8

Client Sample ID:

Date Analyzed: 07/17/24 15:46

Lab File ID: HL17X07.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,4-Dichloro-2-butene	11.95	Incomplete Integration	DVW2	07/18/24 08:30

Lab Sample ID: IC 410-529291/13

Client Sample ID:

Date Analyzed: 07/17/24 17:30

Lab File ID: HL17X12.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.50	Incomplete Integration	DVW2	07/18/24 08:26
Methyl acetate	3.84	Incomplete Integration	DVW2	07/18/24 08:27
Acrylonitrile	4.35	Incomplete Integration	DVW2	07/18/24 08:27
Propionitrile	5.97	Incomplete Integration	DVW2	07/18/24 08:27
Dibromomethane	8.42	Other	UKEK	07/18/24 21:02
Methyl methacrylate	8.44	Incomplete Integration	DVW2	07/18/24 08:27
2-Nitropropane	8.92	Incomplete Integration	DVW2	07/18/24 08:27
1-Bromo-2-chloroethane	9.06	Incomplete Integration	DVW2	07/18/24 08:27
Ethyl methacrylate	9.96	Incomplete Integration	DVW2	07/18/24 08:27
2-Hexanone	10.34	Other	UKEK	07/18/24 21:48
1,1,2,2-Tetrachloroethane	12.15	Incomplete Integration	DVW2	07/18/24 08:26

Lab Sample ID: IC 410-529291/14

Client Sample ID:

Date Analyzed: 07/17/24 17:51

Lab File ID: HL17X13.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.81	Incomplete Integration	DVW2	07/18/24 08:24
Acrylonitrile	4.37	Incomplete Integration	DVW2	07/18/24 08:24
n-Butanol	7.92	Incomplete Integration	DVW2	07/18/24 08:25
1,4-Dioxane	8.40	Incomplete Integration	DVW2	07/18/24 08:25
n-Butylbenzene	13.18	Other	UKEK	07/18/24 21:30

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Instrument ID: 19094

Analysis Batch Number: 529291

Lab Sample ID: IC 410-529291/15

Client Sample ID:

Date Analyzed: 07/17/24 18:12

Lab File ID: HL17X14.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.40	Incomplete Integration	DVW2	07/18/24 08:23

Lab Sample ID: IC 410-529291/16

Client Sample ID:

Date Analyzed: 07/17/24 18:32

Lab File ID: HL17X15.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.79	Incomplete Integration	DVW2	07/18/24 08:22
1,4-Dioxane	8.40	Incomplete Integration	DVW2	07/18/24 09:03

Lab Sample ID: IC 410-529291/17

Client Sample ID:

Date Analyzed: 07/17/24 18:53

Lab File ID: HL17X16.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.39	Incomplete Integration	DVW2	07/18/24 09:03

Lab Sample ID: ICIS 410-529291/18

Client Sample ID:

Date Analyzed: 07/17/24 19:14

Lab File ID: HL17X17.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.39	Incomplete Integration	DVW2	07/18/24 09:02

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Instrument ID: 19094

Analysis Batch Number: 529291

Lab Sample ID: IC 410-529291/19

Client Sample ID:

Date Analyzed: 07/17/24 19:35

Lab File ID: HL17X18.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	DVW2	07/18/24 08:15
1,4-Dioxane	8.38	Incomplete Integration	DVW2	07/18/24 09:03

Lab Sample ID: ICV 410-529291/21

Client Sample ID:

Date Analyzed: 07/17/24 20:16

Lab File ID: HL17X20.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.77	Incomplete Integration	DVW2	07/18/24 08:29

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Instrument ID: 19094

Analysis Batch Number: 545038

Lab Sample ID: CCVIS 410-545038/3

Client Sample ID:

Date Analyzed: 08/27/24 21:18

Lab File ID: HG27X32.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	JS6E	08/27/24 22:20
Methylene Chloride	3.95	Missed Peak	JS6E	08/27/24 22:21

Lab Sample ID: LCSD 410-545038/5

Client Sample ID:

Date Analyzed: 08/27/24 21:59

Lab File ID: HG27X34.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	3.96	Missed Peak	JS6E	08/27/24 23:02

Lab Sample ID: 410-185105-1

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

Date Analyzed: 08/27/24 23:43

Lab File ID: HG27X39.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroform	6.34	Incomplete Integration	N9NA	08/28/24 12:33
Trichloroethene	7.96	Incomplete Integration	N9NA	08/28/24 12:34
Acetone		Invalid Compound ID	N9NA	08/28/24 12:33

Lab Sample ID: 410-185105-2

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

Date Analyzed: 08/28/24 00:04

Lab File ID: HG27X40.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzene	7.06	Incomplete Integration	N9NA	08/28/24 12:35

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Instrument ID: 19094

Analysis Batch Number: 545038

Lab Sample ID: 410-185105-3

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

Date Analyzed: 08/28/24 00:24

Lab File ID: HG27X41.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1-Trichloroethane		Invalid Compound ID	N9NA	08/28/24 12:36

Lab Sample ID: 410-185105-4

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

Date Analyzed: 08/28/24 00:45

Lab File ID: HG27X42.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	5.86	Incomplete Integration	N9NA	08/28/24 12:36
Trichloroethene	7.96	Incomplete Integration	N9NA	08/28/24 12:37

Lab Sample ID: 410-185105-5

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

Date Analyzed: 08/28/24 01:05

Lab File ID: HG27X43.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.95	Incomplete Integration	N9NA	08/28/24 12:38
1,1,1-Trichloroethane		Invalid Compound ID	N9NA	08/28/24 12:38
Acetone		Invalid Compound ID	N9NA	08/28/24 12:37

Lab Sample ID: 410-185105-7

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

Date Analyzed: 08/28/24 02:28

Lab File ID: HG27X47.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1-Trichloroethane	6.56	Invalid Compound ID	N9NA	08/28/24 14:10

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Instrument ID: 19094

Analysis Batch Number: 545038

Lab Sample ID: 410-185105-10

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

Date Analyzed: 08/28/24 03:10

Lab File ID: HG27X49.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.62	Incomplete Integration	N9NA	08/28/24 14:41
Trichloroethene	7.96	Incomplete Integration	N9NA	08/28/24 14:42

Lab Sample ID: 410-185105-11

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

Date Analyzed: 08/28/24 03:31

Lab File ID: HG27X50.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.96	Incomplete Integration	N9NA	08/28/24 14:56

Lab Sample ID: 410-185105-12

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

Date Analyzed: 08/28/24 03:52

Lab File ID: HG27X51.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.97	Incomplete Integration	N9NA	08/28/24 15:15
1,1,1-Trichloroethane		Invalid Compound ID	N9NA	08/28/24 15:14

Lab Sample ID: 410-185105-13

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

Date Analyzed: 08/28/24 04:54

Lab File ID: HG27X54.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1-Trichloroethane	6.56	Invalid Compound ID	DVW2	08/28/24 13:11

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_CCV_CYC_00009	01/10/25	07/10/24	50/50 MeOH/Water, Lot EH471	50 mL	MSV_VCYC_STK_00012	5.81 mL	Cyclohexanone	6250.4 ug/mL
.MSV_VCYC_STK_00012	01/10/25	07/10/24	50/50 MeOH/Water, Lot EH471	10 mL	MSV_CYC_00009	0.5379 g	Cyclohexanone	53790 ug/mL
..MSV_CYC_00009	06/30/27		Chem Service, Lot 14568900		(Purchased Reagent)		Cyclohexanone	1 g/g
MSV_CCV_V5ACE_00038	08/11/24	07/11/24	Methanol, Lot EH822	10 mL	MSV_AcetatesV_00060	1 mL	Acetonitrile	5000 ug/mL
							Ethyl acetate	1000 ug/mL
							Vinyl acetate	1000 ug/mL
.MSV_AcetatesV_00060	11/30/24		Restek, Lot A0197847		(Purchased Reagent)		Acetonitrile	50000 ug/mL
							Ethyl acetate	10000 ug/mL
							Vinyl acetate	10000 ug/mL
MSV_DME_00056	08/10/24		Restek, Lot A0190883		(Purchased Reagent)		Dimethyl ether	1000 ug/mL
MSV_LCS_VOC#1_00176	08/13/24	07/14/24	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00217	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_00213	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00192	1 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_M_MIX1SEC_00217	06/30/26		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_00213	04/30/26		Restek, Lot A0197573		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
.MSV_Q_Ketones_00192	04/30/25		Restek, Lot A0194631		(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
MSV_LCS_VOC#1_00182	09/24/24	08/25/24	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00222	1 mL	Acetone	12500 ug/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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00224	1 mL	Carbon disulfide	40 ug/mL
					MSV_Q_Ketones_00217	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_00222	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_M_MIX2SEC_00224	05/31/27		Restek, Lot A0212017		(Purchased Reagent)		Trichloroethene	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00217	02/28/26		Restek, Lot A0194631		(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_00137	08/10/24	07/14/24	Methanol, Lot EH822	1 mL	MSV_CCV_VOC#1_00192	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
							1,1-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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Trichloroethene	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	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_00188	200 uL	Acrolein	2505.44 ug/mL
							2-Butanone (MEK)	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSV_V_VOA2_00246	150 uL	2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
							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
.MSV_CCV_VOC#1_00192	08/13/24	07/14/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00187	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00182	1 mL	1,1,2-Trichloro-1,2,2-trifluoroethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,4-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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MSV_MegaMIX#1_00187	08/13/24		Restek, Lot A0197556		(Purchased Reagent)		trans-1,4-Dichloro-2-butene	2500 ug/mL
							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-Trichloropropene	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00182	08/13/24		Restek, Lot A0197578		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluor oethane	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
							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_00188	08/10/24	07/14/24	Methanol, Lot EH471	5 mL	MSV_CCV_ACR_00021	0.5 mL	Acrolein	12527.2 ug/mL
					MSV_V_Ketones_00172	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_00021	08/10/24	06/11/24	Methanol, Lot EH471	10 mL	MSV_VACR_STK_00041	9.393 mL	Acrolein	125272 ug/mL
...MSV_VACR_STK_00041	08/10/24	06/11/24	Methanol, Lot EH471	10 mL	MSV_ACROLEIN_00034	1.4356 g	Acrolein	133367 ug/mL
...MSV_ACROLEIN_00034	01/31/25		Chem Service, Lot 15004000		(Purchased Reagent)		Acrolein	0.929 g/g

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MSV_V_Ketones_00172	01/31/26	Restek, Lot A0193494			(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_00246	08/13/24	07/14/24	Methanol, Lot EH471	5 mL	MSV_V#2B_00383	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_00383	05/31/26
2-Methyl-2-propanol	25000 ug/mL							
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_00145	09/24/24	08/26/24	Methanol, Lot EH822	1 mL	MSV_CCV_VOC#1_00198	50 uL		
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration					
					Reagent ID	Volume Added							
							Methyl tert-butyl ether	50 ug/mL					
					MSV_CCV_VOC#3_00195	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_00198	09/24/24	08/25/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00192	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL					
							1,1,1-Trichloroethane	1000 ug/mL					
							1,1,2,2-Tetrachloroethane	1000 ug/mL					
							1,1,2-Trichloroethane	1000 ug/mL					
							1,1-Dichloroethane	1000 ug/mL					
							1,1-Dichloroethene	1000 ug/mL					
							1,2-Dibromoethane (EDB)	1000 ug/mL					
							1,2-Dichloroethane	1000 ug/mL					
							1,2-Dichloropropane	1000 ug/mL					
							Benzene	1000 ug/mL					
							Bromochloromethane	1000 ug/mL					
							Bromodichloromethane	1000 ug/mL					
							Bromoform	1000 ug/mL					
							Carbon tetrachloride	1000 ug/mL					
							Chlorobenzene	1000 ug/mL					
							Chloroform	1000 ug/mL					
							cis-1,2-Dichloroethene	1000 ug/mL					
							cis-1,3-Dichloropropene	1000 ug/mL					
							Dibromochloromethane	1000 ug/mL					
							Ethylbenzene	1000 ug/mL					
							Methylene Chloride	1000 ug/mL					
							Styrene	1000 ug/mL					
							Tetrachloroethene	1000 ug/mL					
							Toluene	1000 ug/mL					
							trans-1,2-Dichloroethene	1000 ug/mL					
							trans-1,3-Dichloropropene	1000 ug/mL					
							Trichloroethene	1000 ug/mL					
							MSV_MegaMix#2_00197	1 mL	Carbon disulfide	1000 ug/mL			
					..MSV_MegaMIX#1_00192	09/24/24		Restek, Lot A0197556		(Purchased Reagent)		Methyl tert-butyl ether	1000 ug/mL
												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												

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Methylene Chloride	5000 ug/mL
							Styrene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00197	09/24/24		Restek, Lot A0212010		(Purchased Reagent)		Carbon disulfide	5000 ug/mL
..MSV_CCV_VOC#3_00195	09/24/24	08/25/24	Methanol, Lot EH471	5 mL	MSV_V_Ketones_00190	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_00190	10/31/26		Restek, Lot A0203422		(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_00144	07/28/24	07/14/24	Methanol, Lot EH822	1 mL	CCV_ETBR_00007	50 uL	Ethyl bromide	50.085 ug/mL
					MSV_BCE_00070	25 uL	1-Bromo-2-chloroethane	50 ug/mL
					MSV_CCV_EE_00007	50 uL	Ethyl ether	49.9948 ug/mL
					MSV_V_PentaCL_00049	10 uL	Pentachloroethane	50 ug/mL
..CCV_ETBR_00007	11/08/24	05/08/24	Methanol, Lot EH471	10 mL	MSV_VETBR_STK_00016	0.212 mL	Ethyl bromide	1001.7 ug/mL
..MSV_VETBR_STK_00016	11/08/24	05/08/24	Methanol, Lot EH471	10 mL	MSV_EtBr_00009	0.4725 g	Ethyl bromide	47250 ug/mL
...MSV_EtBr_00009	06/30/25		Chem Service, Lot 13345600		(Purchased Reagent)		Ethyl bromide	1 g/g
..MSV_BCE_00070	08/13/24		Restek, Lot A0201612		(Purchased Reagent)		1-Bromo-2-chloroethane	2000 ug/mL
..MSV_CCV_EE_00007	11/07/24	05/07/24	Methanol, Lot EH471	50 mL	MSV_EE_MISCSK_00014	0.917 mL	Ethyl ether	999.897 ug/mL
..MSV_EE_MISCSK_00014	11/07/24	05/07/24	Methanol, Lot EH471	10 mL	MSV_EE_Neat_00011	0.5452 g	Ethyl ether	54520 ug/mL
...MSV_EE_Neat_00011	06/30/27		Chem Service, Lot 14084700		(Purchased Reagent)		Ethyl ether	1 g/g
..MSV_V_PentaCL_00049	07/28/24		Restek, Lot A0184174		(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_GAS826_00220	07/23/24	07/16/24	Methanol, Lot EH822	1 mL	MSV_CCV_GASES_00813	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00813	05/31/27	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_00230	09/02/24	08/26/24	Methanol, Lot EH822	1 mL	MSV_CCV_GASES_00849	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00849	09/02/24	Restek, Lot A0212054			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LLcentISO_00008	08/01/24	05/20/24	Methanol, Lot EG095	50 mL	MSV_Cus826_IS_00663	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5 (IS)	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL
.MSV_Cus826_IS_00663	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_LLcentISS_00012	08/01/24	02/01/24	Methanol, Lot EG095	50 mL	MSV_8260_SS_01091	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_00663	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_01091	05/30/28	Restek, Lot A0201083			(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_00663	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_LLcentISS_00013	12/17/24	06/17/24	Methanol, Lot EH822	50 mL	MSV_Cus826_IS_00791	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5 (IS)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL
.MSV_Cus826_IS_00791	04/30/26	Restek, Lot A0197488			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_LLcentISS_00013	12/17/24	06/17/24	Methanol, Lot EH822	50 mL	MSV_8260_SS_01219	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.MSV_8260_SS_01219	01/31/29	Restek, Lot A0206374			(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_QC_Gas826_00207	07/21/24	07/16/24	Methanol, Lot EH822	1 mL	MSV_QC_2K_GAS_00225	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00225	07/21/24	Restek, Lot A0184924			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QC_Gas826_00216	09/01/24	08/26/24	Methanol, Lot EH822	1 mL	MSV_QC_2K_GAS_00233	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00233	09/01/24	Restek, Lot A0184924			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_V_BFB_00017							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Xylenes, Total	
					MSV_VBFB_STK_00012	0.09 mL	BFB	501120 ug/mL
.MSV_VBFB_STK_00012	12/02/24	06/02/24	Methanol, Lot EH471	10 mL	MSV_4BFB_NEAT_00011	13920 g	BFB	1392000000 ug/mL
..MSV_4BFB_NEAT_00011	05/31/25	Chem Service, Lot 15267000			(Purchased Reagent)		BFB	1 g/g
MSV_V_SMRV4_00072	07/22/24	06/23/24	Methanol, Lot EH822	1 mL	MSV_CCV_2CEVE_00181	200 uL	2-Chloroethyl vinyl ether	200 ug/mL
					MSV_CCV_LKB_00010	400 uL	cis-1,4-Dichloro-2-butene	399.946 ug/mL
					MSV_V_SMFreon_00044	100 uL	Chlorodifluoromethane	200 ug/mL
.MSV_CCV_2CEVE_00181	07/23/24	06/23/24	Methanol, Lot EH471	5 mL	MSV_V_2CLEVE_00186	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
..MSV_V_2CLEVE_00186	04/30/26	Restek, Lot A0197472			(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
.MSV_CCV_LKB_00010	12/13/24	06/13/24	Methanol, Lot EH471	50 mL	MSV_Vc14d_STK_00011	1.233 mL	cis-1,4-Dichloro-2-butene	999.864 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Job No.: 410-185105-1
Testing, LLC

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MSV_Vc14d_STK_00011	12/13/24	06/13/24	Methanol, Lot EH471	10 mL	MSV_c14dcb_Nt_00004	0.4268 g	cis-1,4-Dichloro-2-butene	40546 ug/mL
...MSV_c14dcb_Nt_00004	08/16/27		Aldrich, Lot SHBH4584V		(Purchased Reagent)		cis-1,4-Dichloro-2-butene	0.95 g/g
.MSV_V_SMFreon_00044	07/22/24		Restek, Lot A0184508		(Purchased Reagent)		Chlorodifluoromethane	2000 ug/mL

Reagent

MSV_AcetatesV_00060



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom Acetates Standard

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

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

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

Ship: On Ice

CERTIFIED VALUES

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

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

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

Tech Tips:

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

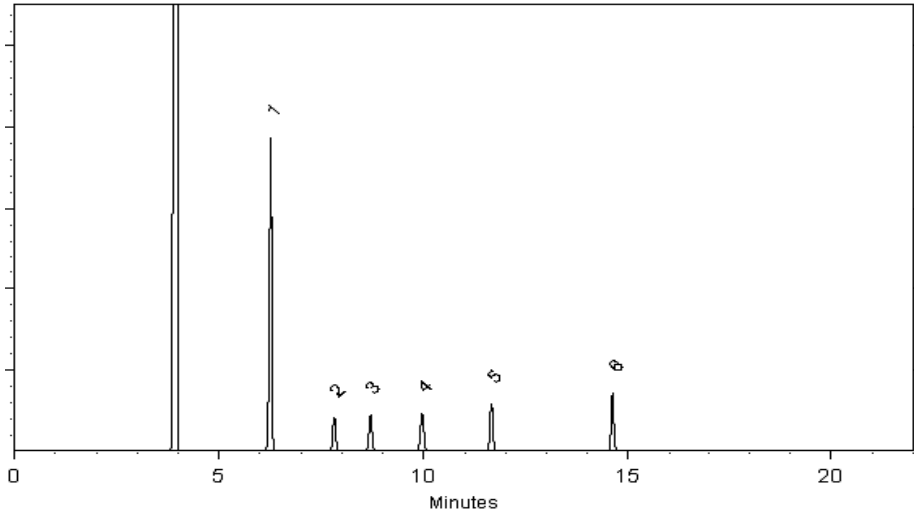
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Mixed: 09-May-2023 Balance Serial # B251644995

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

Date Passed: 11-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_BCE_00070



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. : 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:

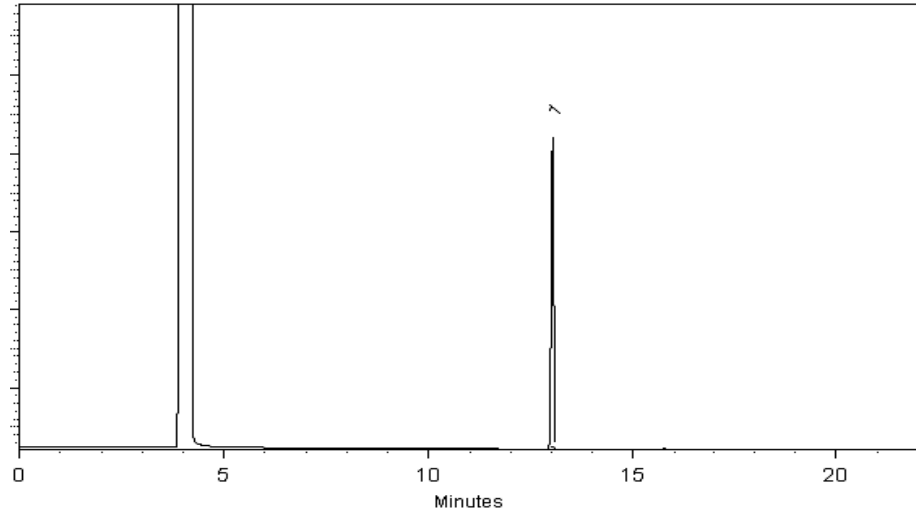
FID

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_c14dcb_Nt_00004

3050 Spruce Street, Saint Louis, MO 63103, USA

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

Certificate of Analysis

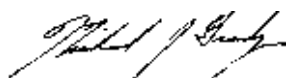
Product Name:

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

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



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



Michael Grady, Manager
Quality Control
Sheboygan Falls, WI US

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

Reagent

MSV_CCV_GASES_00813



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 **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:

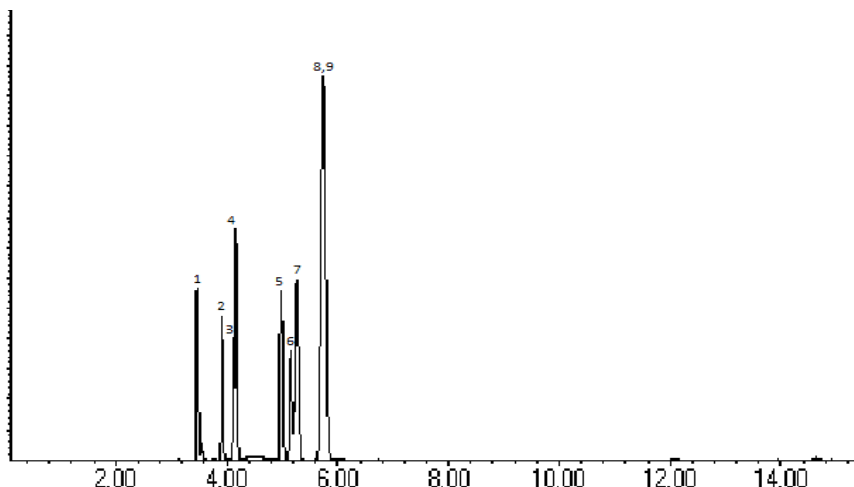
MSD

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_00849



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 **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:

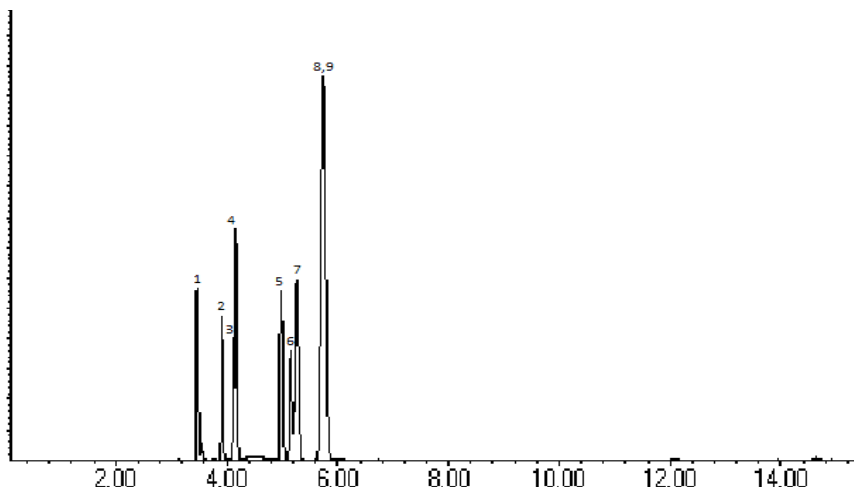
MSD

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_00791



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

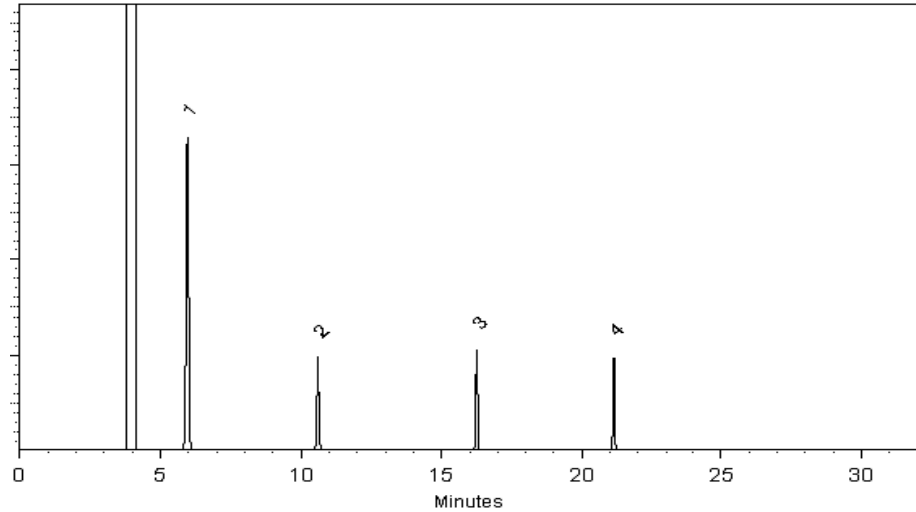
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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


Daniel Wasson - Operations Tech I

Date Mixed: 26-Apr-2023

Balance Serial # 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 02-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

- 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_DME_00056



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 564156 **Lot No.:** A0190883

Description : Custom Dimethyl Ether Standard

Custom Dimethyl Ether Standard 1,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : October 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Methyl ether (dimethyl ether)	1,000.4 µg/mL	+/- 8.2332 µg/mL Gravimetric
	CAS # 115-10-6 (Lot 00021629)		+/- 22.1970 µg/mL Unstressed
	Purity 98%		+/- 22.7984 µg/mL Stressed

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

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

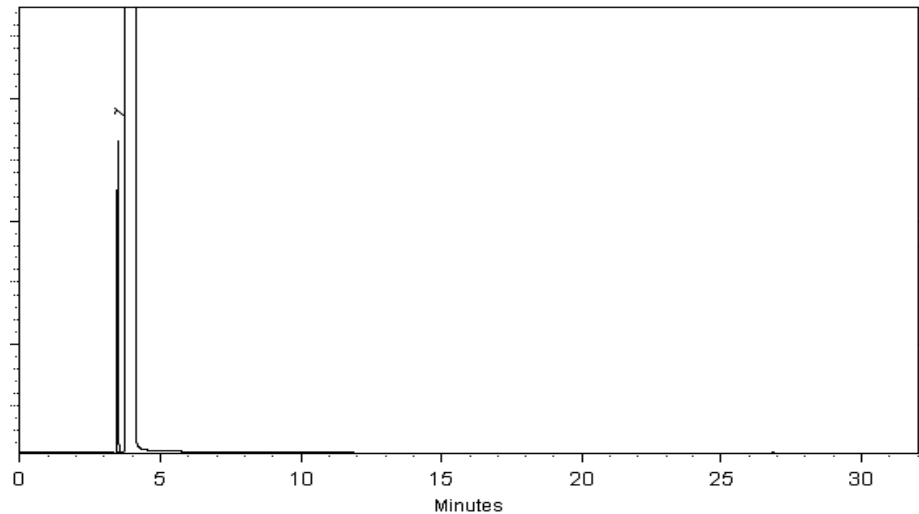
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Cathleen Soltis
Cathleen Soltis - Mix Technician

Date Mixed: 24-Oct-2022 Balance: B707717271

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Nov-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX1SEC_00222



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

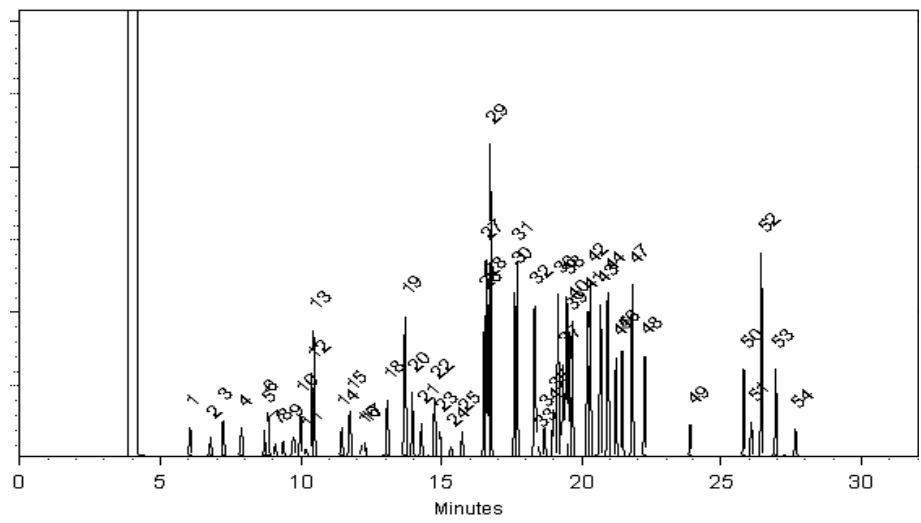
53	Naphthalene	91-20-3.SEC	AM5NG	99%	1,002.7	µg/mL	+/- 57.6079
54	1,2,3-Trichlorobenzene	87-61-6.SEC	A0043055	99%	1,004.6	µg/mL	+/- 57.7194

* 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 - Mix Technician

Jennifer Pollino - Operations Tech III - ARM QC

Date Mixed: 10-May-2024 **Balance Serial #** 1128342314
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_M_MIX2SEC_00224



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577494 **Lot No.:** A0212017

Description : Custom VOC MegaMix®.SEC #2 Standard
Custom VOC MegaMix®.SEC #2 Standard 1,000-50,000µg/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	n-Pentane (C5)	109-66-0.SEC FGH02		99%	1,010.0 µg/mL	+/- 16.5203
2	2-Propanol (isopropanol)	67-63-0.SEC 7B8ZE		99%	7,521.0 µg/mL	+/- 122.9828
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1.SEC 18342		99%	1,010.0 µg/mL	+/- 16.5203
4	tert-Butanol (TBA)	75-65-0.SEC 5REPK		99%	10,058.5 µg/mL	+/- 164.4758
5	Methyl acetate	79-20-9.SEC LV27M		99%	1,005.5 µg/mL	+/- 16.4467
6	Iodomethane (methyl iodide)	74-88-4.SEC Y25A027		99%	1,008.5 µg/mL	+/- 16.4957
7	Allyl chloride (3-chloropropene)	107-05-1.SEC RD210329		99%	1,010.0 µg/mL	+/- 16.5203
8	Carbon disulfide	75-15-0.SEC MKBL1376V		99%	1,005.0 µg/mL	+/- 16.4385
9	Acrylonitrile	107-13-1.SEC V54AD		99%	5,033.0 µg/mL	+/- 82.2992
10	Methyl-tert-butyl ether (MTBE)	1634-04-4.SECZHKYA		99%	1,009.0 µg/mL	+/- 16.5039
11	n-Hexane (C6)	110-54-3.SEC 10188491		99%	1,002.5 µg/mL	+/- 16.3976
12	Diisopropyl ether (DIPE)	108-20-3.SEC LL7TN-SH		99%	1,004.0 µg/mL	+/- 16.4221
13	Chloroprene (2-chloro-1,3-butadiene)	126-99-8 S240508RSR		99%	1,004.5 µg/mL	+/- 16.4303
14	Ethyl-tert-butyl ether (ETBE)	637-92-3.SEC UCI5B		98%	1,005.0 µg/mL	+/- 16.4383
15	Propionitrile	107-12-0.SEC B4ZPC		99%	7,531.5 µg/mL	+/- 123.1545
16	Methacrylonitrile	126-98-7 1012014		99%	7,552.0 µg/mL	+/- 123.4897

17	Isobutanol (2-Methyl-1-propanol)	78-83-1.SEC PH2XK	99%	25,152.5	µg/mL	+/-	411.2916
18	Tetrahydrofuran	109-99-9.SEC 3NYHE	99%	5,019.0	µg/mL	+/-	82.0703
19	Cyclohexane	110-82-7.SEC YADRA	99%	1,005.0	µg/mL	+/-	16.4385
20	1-Butanol	71-36-3.SEC LIE2D	99%	50,148.0	µg/mL	+/-	820.0105
21	tert-Amyl methyl ether (TAME)	994-05-8.SEC 12075100	98%	1,008.4	µg/mL	+/-	16.4944
22	n-Heptane (C7)	142-82-5.SEC TFHUC	99%	1,003.5	µg/mL	+/-	16.4139
23	tert-Amyl ethyl ether (TAEE)	919-94-8.SEC 14406100	98%	1,008.9	µg/mL	+/-	16.5024
24	Methylcyclohexane	108-87-2.SEC Q02QG	99%	1,006.0	µg/mL	+/-	16.4548
25	Methyl methacrylate	80-62-6.SEC G01X021	99%	1,002.5	µg/mL	+/-	16.3976
26	1,4-Dioxane	123-91-1.SEC QHRWO	99%	25,103.0	µg/mL	+/-	410.4822
27	2-Nitropropane	79-46-9.SEC F43IA	99%	1,007.0	µg/mL	+/-	16.4712
28	Ethyl methacrylate	97-63-2.SEC AQSP0	99%	1,006.5	µg/mL	+/-	16.4630
29	1-Chlorohexane	544-10-5.SEC 14420900	99%	1,002.0	µg/mL	+/-	16.3894
30	trans-1,4-Dichloro-2-butene	110-57-6.SEC RD240522S	97%	5,007.6	µg/mL	+/-	81.8843
31	1,2,3-Trimethylbenzene	526-73-8.SEC 12203300	99%	1,008.0	µg/mL	+/-	16.4876
32	1,3-Diethylbenzene	141-93-5.SEC 113566-1	99%	1,006.5	µg/mL	+/-	16.4630
33	Benzyl chloride	100-44-7.SEC H29N03	99%	1,003.5	µg/mL	+/-	16.4139
34	1,4-Diethylbenzene	105-05-5.SEC FBQ02	98%	1,007.9	µg/mL	+/-	16.4864
35	1,2-Diethylbenzene	135-01-3.SEC BCBF3667V	99%	1,005.5	µg/mL	+/-	16.4467
36	1,3,5-Trichlorobenzene	108-70-3.SEC I28U021	99%	1,002.0	µg/mL	+/-	16.3894
37	2-Methylnaphthalene	91-57-6.SEC 76023-1	99%	1,002.5	µg/mL	+/-	16.3976

* 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:

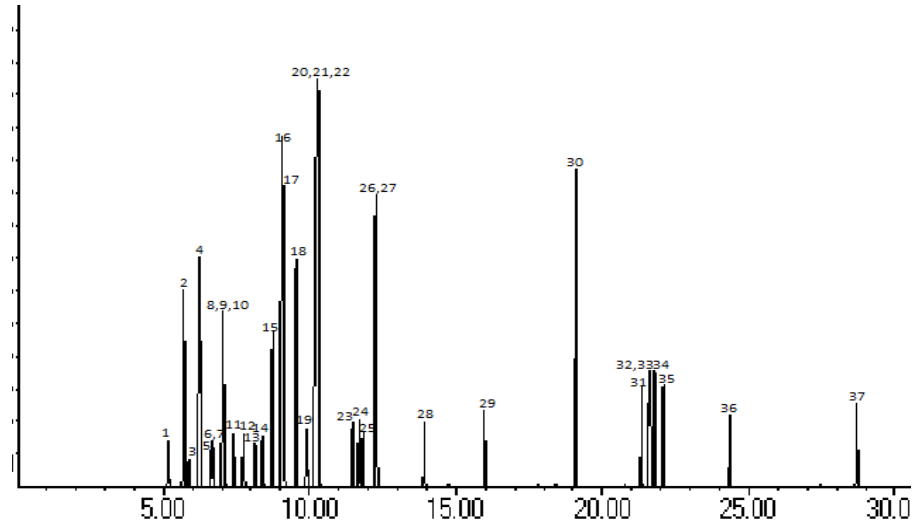
MSD

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.

Malina Homan - Operations Technician I

Date Mixed: 24-May-2024

Balance Serial # 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 04-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_MegaMIX#1_00187



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.:** A0197556

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 : 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	1,1-dichloroethene	75-35-4	SHBL4758	99%	5,031.3 µg/mL	+/- 283.3780
2	Methylene chloride (dichloromethane)	75-09-2	SHBP1417	99%	5,034.6 µg/mL	+/- 283.5646
3	trans-1,2-Dichloroethene	156-60-5	MKBH9850V	99%	5,035.6 µg/mL	+/- 283.6244
4	1,1-Dichloroethane	75-34-3	760200	99%	5,025.8 µg/mL	+/- 283.0682
5	2,2-Dichloropropane	594-20-7	RD220812	99%	5,043.3 µg/mL	+/- 284.0782
6	cis-1,2-Dichloroethene	156-59-2	MKCP7830	99%	5,049.7 µg/mL	+/- 284.4387
7	chloroform	67-66-3	SHBN8469	99%	5,026.5 µg/mL	+/- 283.1105
8	Bromochloromethane	74-97-5	230206JLM	99%	5,043.8 µg/mL	+/- 284.1063
9	1,1,1-trichloroethane	71-55-6	RD230130RSR	99%	5,017.8 µg/mL	+/- 282.6176
10	1,1-Dichloropropene	563-58-6	230131JLM	99%	5,043.1 µg/mL	+/- 284.0669
11	carbon tetrachloride	56-23-5	SHBP4875	99%	5,031.8 µg/mL	+/- 283.4062
12	1,2-Dichloroethane	107-06-2	SHBQ0693	99%	5,041.9 µg/mL	+/- 283.9799
13	Benzene	71-43-2	SHBM3620	99%	5,044.9 µg/mL	+/- 284.1683
14	Trichloroethene	79-01-6	SHBN3720	99%	5,031.3 µg/mL	+/- 283.3780
15	1,2-Dichloropropane	78-87-5	BCBR0882V	99%	5,036.8 µg/mL	+/- 283.6878
16	bromodichloromethane	75-27-4	MKCF8470	99%	5,023.9 µg/mL	+/- 282.9661

17	Dibromomethane	74-95-3	10233302	99%	5,047.7	µg/mL	+/-	284.3260
18	cis-1,3-Dichloropropene	10061-01-5	RD221227RSRB	99%	5,027.8	µg/mL	+/-	283.1844
19	Toluene	108-88-3	ED097-US	99%	5,047.6	µg/mL	+/-	284.3204
20	trans-1,3-Dichloropropene	10061-02-6	RD220228A	98%	5,026.1	µg/mL	+/-	283.0852
21	1,1,2-Trichloroethane	79-00-5	FGB01	99%	5,037.6	µg/mL	+/-	283.7335
22	1,3-Dichloropropane	142-28-9	BCCH5357	99%	5,042.5	µg/mL	+/-	284.0331
23	Tetrachloroethene	127-18-4	SHBJ7422	99%	5,031.8	µg/mL	+/-	283.4097
24	dibromochloromethane	124-48-1	MKCM8659	99%	5,024.5	µg/mL	+/-	282.9978
25	1,2-Dibromoethane (EDB)	106-93-4	BCCH7113	99%	5,044.2	µg/mL	+/-	284.1289
26	Chlorobenzene	108-90-7	SHBN6640	99%	5,022.1	µg/mL	+/-	282.8605
27	1,1,1,2-Tetrachloroethane	630-20-6	GC01	99%	5,043.6	µg/mL	+/-	284.0951
28	Ethylbenzene	100-41-4	094632L21G	99%	5,045.6	µg/mL	+/-	284.2077
29	m-Xylene	108-38-3	Q13G020	99%	5,048.8	µg/mL	+/-	284.3880
30	p-Xylene	106-42-3	10234437	99%	5,045.7	µg/mL	+/-	284.2134
31	o-Xylene	95-47-6	SHBN5105	98%	5,038.2	µg/mL	+/-	283.7898
32	Styrene	100-42-5	MKQCQ3390	99%	5,041.8	µg/mL	+/-	283.9937
33	Isopropylbenzene (cumene)	98-82-8	Z20D022	99%	5,047.5	µg/mL	+/-	284.3148
34	bromoform	75-25-2	MKCR0680	99%	5,030.8	µg/mL	+/-	283.3533
35	1,1,2,2-Tetrachloroethane	79-34-5	OXACF	99%	5,031.6	µg/mL	+/-	283.3956
36	1,2,3-Trichloropropane	96-18-4	332900	99%	5,044.1	µg/mL	+/-	284.1232
37	n-Propylbenzene	103-65-1	G08M	98%	5,049.5	µg/mL	+/-	284.4246
38	Bromobenzene	108-86-1	MKQCQ7174	99%	5,044.6	µg/mL	+/-	284.1514
39	1,3,5-Trimethylbenzene	108-67-8	BCCF4166	99%	5,049.4	µg/mL	+/-	284.4218
40	2-Chlorotoluene	95-49-8	235783M23T	99%	5,044.5	µg/mL	+/-	284.1458
41	4-Chlorotoluene	106-43-4	BCCG9286	99%	5,045.5	µg/mL	+/-	284.2021
42	tert-Butylbenzene	98-06-6	STBJ1937	99%	5,047.9	µg/mL	+/-	284.3373
43	1,2,4-Trimethylbenzene	95-63-6	MKCS3775	99%	5,047.3	µg/mL	+/-	284.3035
44	sec-Butylbenzene	135-98-8	MKCP2266	99%	5,046.3	µg/mL	+/-	284.2472
45	p-Isopropyltoluene (p-Cymene)	99-87-6	MKCR6143	99%	5,045.8	µg/mL	+/-	284.2190
46	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	5,036.8	µg/mL	+/-	283.6878
47	1,4-Dichlorobenzene	106-46-7	MKBS4401V	99%	5,037.8	µg/mL	+/-	283.7476
48	n-Butylbenzene	104-51-8	09804AE	99%	5,049.1	µg/mL	+/-	284.4049
49	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	5,030.9	µg/mL	+/-	283.3604
50	1,2-Dibromo-3-chloropropane	96-12-8	HBMVB	97%	5,047.8	µg/mL	+/-	284.3307
51	1,2,4-Trichlorobenzene	120-82-1	SHBM0526	99%	5,046.6	µg/mL	+/-	284.2641
52	Hexachlorobutadiene	87-68-3	X05J	99%	5,045.1	µg/mL	+/-	284.1796

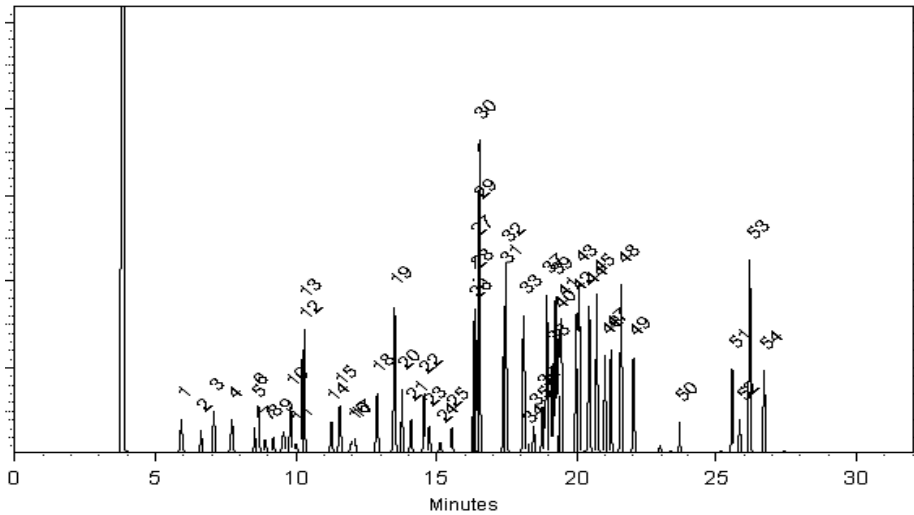
53	Naphthalene	91-20-3	MKCH0219	99%	5,029.9	µg/mL	+/- 283.3234
54	1,2,3-Trichlorobenzene	87-61-6	MKBX7627V	99%	5,045.3	µg/mL	+/- 284.1908

* 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.

Nick Yaw
Nick Yaw - Operations Tech I

Date Mixed: 28-Apr-2023 **Balance Serial #** B707717271

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 05-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMIX#1_00192



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.:** A0197556

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 : 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	1,1-dichloroethene	75-35-4	SHBL4758	99%	5,031.3 µg/mL	+/- 283.3780
2	Methylene chloride (dichloromethane)	75-09-2	SHBP1417	99%	5,034.6 µg/mL	+/- 283.5646
3	trans-1,2-Dichloroethene	156-60-5	MKBH9850V	99%	5,035.6 µg/mL	+/- 283.6244
4	1,1-Dichloroethane	75-34-3	760200	99%	5,025.8 µg/mL	+/- 283.0682
5	2,2-Dichloropropane	594-20-7	RD220812	99%	5,043.3 µg/mL	+/- 284.0782
6	cis-1,2-Dichloroethene	156-59-2	MKCP7830	99%	5,049.7 µg/mL	+/- 284.4387
7	chloroform	67-66-3	SHBN8469	99%	5,026.5 µg/mL	+/- 283.1105
8	Bromochloromethane	74-97-5	230206JLM	99%	5,043.8 µg/mL	+/- 284.1063
9	1,1,1-trichloroethane	71-55-6	RD230130RSR	99%	5,017.8 µg/mL	+/- 282.6176
10	1,1-Dichloropropene	563-58-6	230131JLM	99%	5,043.1 µg/mL	+/- 284.0669
11	carbon tetrachloride	56-23-5	SHBP4875	99%	5,031.8 µg/mL	+/- 283.4062
12	1,2-Dichloroethane	107-06-2	SHBQ0693	99%	5,041.9 µg/mL	+/- 283.9799
13	Benzene	71-43-2	SHBM3620	99%	5,044.9 µg/mL	+/- 284.1683
14	Trichloroethene	79-01-6	SHBN3720	99%	5,031.3 µg/mL	+/- 283.3780
15	1,2-Dichloropropane	78-87-5	BCBR0882V	99%	5,036.8 µg/mL	+/- 283.6878
16	bromodichloromethane	75-27-4	MKCF8470	99%	5,023.9 µg/mL	+/- 282.9661

17	Dibromomethane	74-95-3	10233302	99%	5,047.7	µg/mL	+/-	284.3260
18	cis-1,3-Dichloropropene	10061-01-5	RD221227RSRB	99%	5,027.8	µg/mL	+/-	283.1844
19	Toluene	108-88-3	ED097-US	99%	5,047.6	µg/mL	+/-	284.3204
20	trans-1,3-Dichloropropene	10061-02-6	RD220228A	98%	5,026.1	µg/mL	+/-	283.0852
21	1,1,2-Trichloroethane	79-00-5	FGB01	99%	5,037.6	µg/mL	+/-	283.7335
22	1,3-Dichloropropane	142-28-9	BCCH5357	99%	5,042.5	µg/mL	+/-	284.0331
23	Tetrachloroethene	127-18-4	SHBJ7422	99%	5,031.8	µg/mL	+/-	283.4097
24	dibromochloromethane	124-48-1	MKCM8659	99%	5,024.5	µg/mL	+/-	282.9978
25	1,2-Dibromoethane (EDB)	106-93-4	BCCH7113	99%	5,044.2	µg/mL	+/-	284.1289
26	Chlorobenzene	108-90-7	SHBN6640	99%	5,022.1	µg/mL	+/-	282.8605
27	1,1,1,2-Tetrachloroethane	630-20-6	GC01	99%	5,043.6	µg/mL	+/-	284.0951
28	Ethylbenzene	100-41-4	094632L21G	99%	5,045.6	µg/mL	+/-	284.2077
29	m-Xylene	108-38-3	Q13G020	99%	5,048.8	µg/mL	+/-	284.3880
30	p-Xylene	106-42-3	10234437	99%	5,045.7	µg/mL	+/-	284.2134
31	o-Xylene	95-47-6	SHBN5105	98%	5,038.2	µg/mL	+/-	283.7898
32	Styrene	100-42-5	MKQCQ3390	99%	5,041.8	µg/mL	+/-	283.9937
33	Isopropylbenzene (cumene)	98-82-8	Z20D022	99%	5,047.5	µg/mL	+/-	284.3148
34	bromoform	75-25-2	MKCR0680	99%	5,030.8	µg/mL	+/-	283.3533
35	1,1,2,2-Tetrachloroethane	79-34-5	OXACF	99%	5,031.6	µg/mL	+/-	283.3956
36	1,2,3-Trichloropropane	96-18-4	332900	99%	5,044.1	µg/mL	+/-	284.1232
37	n-Propylbenzene	103-65-1	G08M	98%	5,049.5	µg/mL	+/-	284.4246
38	Bromobenzene	108-86-1	MKQCQ7174	99%	5,044.6	µg/mL	+/-	284.1514
39	1,3,5-Trimethylbenzene	108-67-8	BCCF4166	99%	5,049.4	µg/mL	+/-	284.4218
40	2-Chlorotoluene	95-49-8	235783M23T	99%	5,044.5	µg/mL	+/-	284.1458
41	4-Chlorotoluene	106-43-4	BCCG9286	99%	5,045.5	µg/mL	+/-	284.2021
42	tert-Butylbenzene	98-06-6	STBJ1937	99%	5,047.9	µg/mL	+/-	284.3373
43	1,2,4-Trimethylbenzene	95-63-6	MKCS3775	99%	5,047.3	µg/mL	+/-	284.3035
44	sec-Butylbenzene	135-98-8	MKCP2266	99%	5,046.3	µg/mL	+/-	284.2472
45	p-Isopropyltoluene (p-Cymene)	99-87-6	MKCR6143	99%	5,045.8	µg/mL	+/-	284.2190
46	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	5,036.8	µg/mL	+/-	283.6878
47	1,4-Dichlorobenzene	106-46-7	MKBS4401V	99%	5,037.8	µg/mL	+/-	283.7476
48	n-Butylbenzene	104-51-8	09804AE	99%	5,049.1	µg/mL	+/-	284.4049
49	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	5,030.9	µg/mL	+/-	283.3604
50	1,2-Dibromo-3-chloropropane	96-12-8	HBMVB	97%	5,047.8	µg/mL	+/-	284.3307
51	1,2,4-Trichlorobenzene	120-82-1	SHBM0526	99%	5,046.6	µg/mL	+/-	284.2641
52	Hexachlorobutadiene	87-68-3	X05J	99%	5,045.1	µg/mL	+/-	284.1796

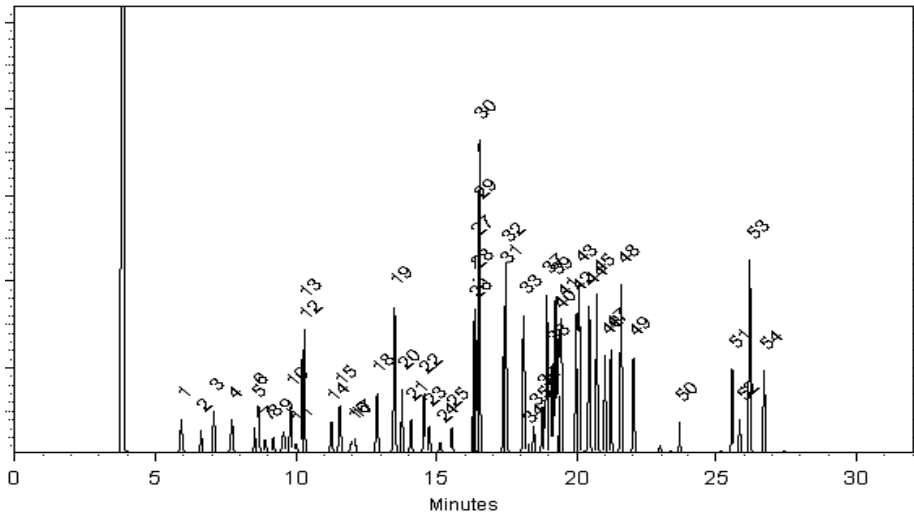
53	Naphthalene	91-20-3	MKCH0219	99%	5,029.9	µg/mL	+/- 283.3234
54	1,2,3-Trichlorobenzene	87-61-6	MKBX7627V	99%	5,045.3	µg/mL	+/- 284.1908

* 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.

Nick Yaw
Nick Yaw - Operations Tech I

Date Mixed: 28-Apr-2023 **Balance Serial #** B707717271

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 05-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMix#2_00182



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.:** A0197578

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 : 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	n-Pentane (C5)	109-66-0	SHBQ0917	99%	5,046.5 µg/mL	+/- 85.0489
2	2-Propanol (isopropanol)	67-63-0	SHBP6610	99%	25,172.0 µg/mL	+/- 411.6105
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	00018685	99%	5,025.7 µg/mL	+/- 84.6978
4	tert-Butanol (TBA)	75-65-0	101619K21F-1	99%	25,170.0 µg/mL	+/- 411.5778
5	Methyl acetate	79-20-9	SHBP3100	99%	5,020.2 µg/mL	+/- 84.6051
6	Iodomethane (methyl iodide)	74-88-4	MKCN8012	99%	5,022.3 µg/mL	+/- 84.6416
7	Allyl chloride (3-chloropropene)	107-05-1	RD221118RSR	99%	5,038.8 µg/mL	+/- 84.9197
8	Carbon disulfide	75-15-0	N28F701	99%	5,028.2 µg/mL	+/- 84.7399
9	Acrylonitrile	107-13-1	102466R02E	99%	12,532.0 µg/mL	+/- 204.9222
10	Methyl-tert-butyl ether (MTBE)	1634-04-4	SHBP0179	99%	5,044.2 µg/mL	+/- 85.0096
11	n-Hexane (C6)	110-54-3	STBG6381	99%	5,016.0 µg/mL	+/- 84.5349
12	Diisopropyl ether (DIPE)	108-20-3	STBK3450	99%	5,043.0 µg/mL	+/- 84.9899
13	Chloroprene (2-chloro-1,3-butadiene)	126-99-8	S230420RSR	99%	5,037.3 µg/mL	+/- 84.8944
14	Ethyl-tert-butyl ether (ETBE)	637-92-3	MKCP5997	99%	5,034.8 µg/mL	+/- 84.8523
15	Propionitrile	107-12-0	BCCH7430	99%	25,000.0 µg/mL	+/- 408.7979
16	Methacrylonitrile	126-98-7	1012014	99%	12,520.0 µg/mL	+/- 204.7260

17	Isobutanol (2-Methyl-1-propanol)	78-83-1	SHBP7066	99%	62,545.0	µg/mL	+/- 1,022.7307
18	Tetrahydrofuran	109-99-9	SHBQ0910	99%	25,024.0	µg/mL	+/- 409.1904
19	Cyclohexane	110-82-7	MKCQ2001	99%	5,039.5	µg/mL	+/- 84.9309
20	1-Butanol	71-36-3	101601K21K	99%	62,664.0	µg/mL	+/- 1,024.6765
21	tert-Amyl methyl ether (TAME)	994-05-8	HMBJ0825	99%	5,021.8	µg/mL	+/- 84.6332
22	n-Heptane (C7)	142-82-5	044743N07T	99%	5,041.5	µg/mL	+/- 84.9646
23	tert-Amyl ethyl ether (TAE)	919-94-8	IKVYB	97%	5,049.3	µg/mL	+/- 85.0967
24	Methylcyclohexane	108-87-2	SHBN1699	99%	5,028.0	µg/mL	+/- 84.7371
25	Methyl methacrylate	80-62-6	MKCQ2756	99%	5,012.3	µg/mL	+/- 84.4731
26	1,4-Dioxane	123-91-1	SHBN3770	99%	62,583.0	µg/mL	+/- 1,023.3520
27	2-Nitropropane	79-46-9	BCCB9352	97%	25,024.1	µg/mL	+/- 409.1914
28	Ethyl methacrylate	97-63-2	MKCN6206	97%	5,040.1	µg/mL	+/- 84.9414
29	1-Chlorohexane	544-10-5	BCBS3368V	99%	5,046.3	µg/mL	+/- 85.0461
30	trans-1,4-dichloro-2-butene	110-57-6	RD221227RSRA	94%	12,618.6	µg/mL	+/- 206.3376
31	1,2,3-Trimethylbenzene	526-73-8	8776.10-36	98%	5,002.6	µg/mL	+/- 84.3086
32	1,3-Diethylbenzene	141-93-5	BCBZ6270	99%	5,041.0	µg/mL	+/- 84.9562
33	Benzyl chloride	100-44-7	MKCM5986	99%	5,045.3	µg/mL	+/- 85.0292
34	1,4-Diethylbenzene	105-05-5	1135.72-1	99%	5,032.7	µg/mL	+/- 84.8158
35	1,2-Diethylbenzene	135-01-3	ECH2970181	99%	5,015.3	µg/mL	+/- 84.5236
36	1,3,5-Trichlorobenzene	108-70-3	11319AS	99%	5,003.8	µg/mL	+/- 84.3298
37	2-Methylnaphthalene	91-57-6	STBK0259	96%	5,002.4	µg/mL	+/- 84.3057

* 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:

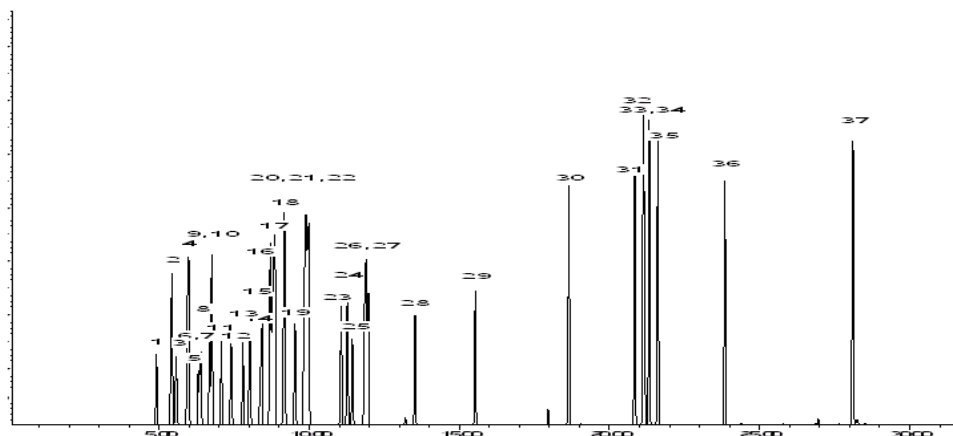
MSD

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.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Apr-2023

Balance Serial # B251644995

Marlina Cowan
Marlina Cowan - Operations Tech II ARM QC

Date Passed: 02-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMix#2_00197



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:

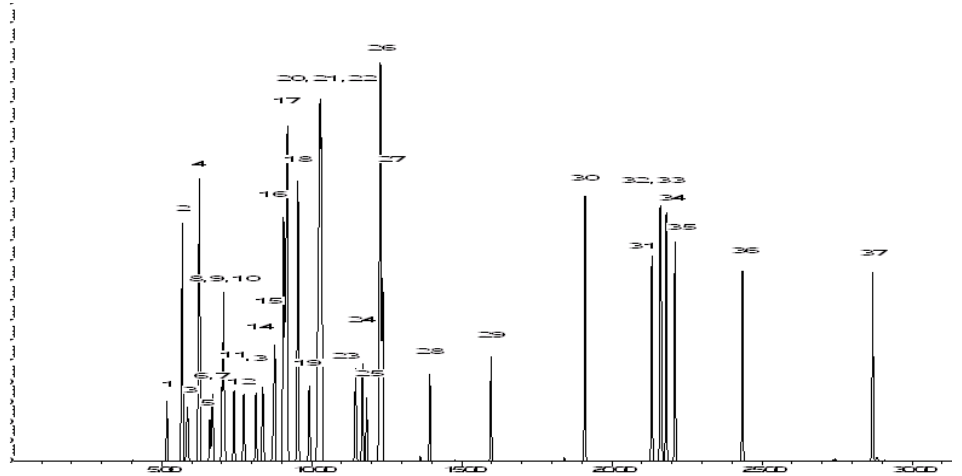
MSD

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_Q_Ketones_00192



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721.SEC **Lot No.:** A0194631

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 : February 28, 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	Acetone	67-64-1.SEC	S25F025	99%	12,530.8 µg/mL	+/- 433.0935
2	2-Butanone (MEK)	78-93-3.SEC	HDLUO	99%	12,522.8 µg/mL	+/- 432.8170
3	4-Methyl-2-pentanone (MIBK)	108-10-1.SEC	E29T040	99%	12,555.6 µg/mL	+/- 433.9507
4	2-Hexanone	591-78-6.SEC	Y3TUO	99%	12,580.4 µg/mL	+/- 434.8078

* 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:

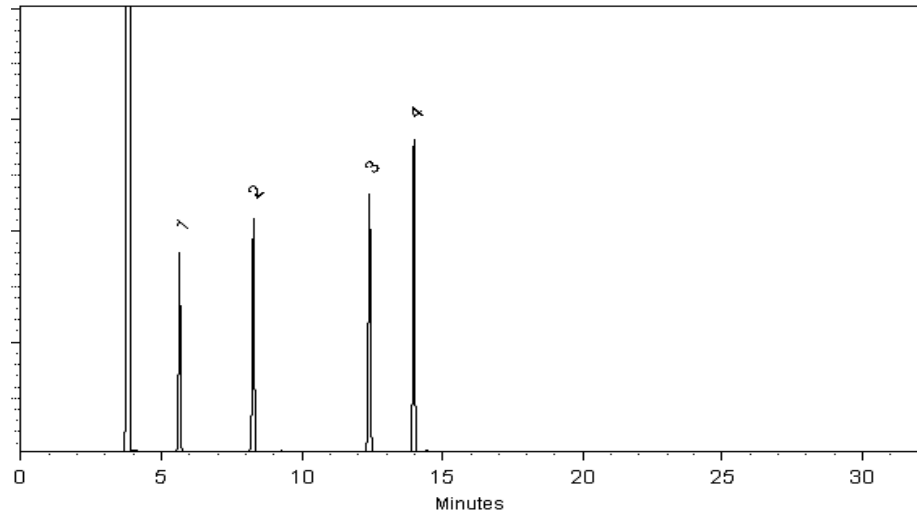
FID

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.


Bryan Snyder - Operations Tech I

Date Mixed: 14-Feb-2023

Balance Serial # 1128342314


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Feb-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_Q_Ketones_00217



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721.SEC **Lot No.:** A0194631

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 : February 28, 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	Acetone	67-64-1.SEC	S25F025	99%	12,530.8 µg/mL	+/- 433.0935
2	2-Butanone (MEK)	78-93-3.SEC	HDLUO	99%	12,522.8 µg/mL	+/- 432.8170
3	4-Methyl-2-pentanone (MIBK)	108-10-1.SEC	E29T040	99%	12,555.6 µg/mL	+/- 433.9507
4	2-Hexanone	591-78-6.SEC	Y3TUO	99%	12,580.4 µg/mL	+/- 434.8078

* 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:

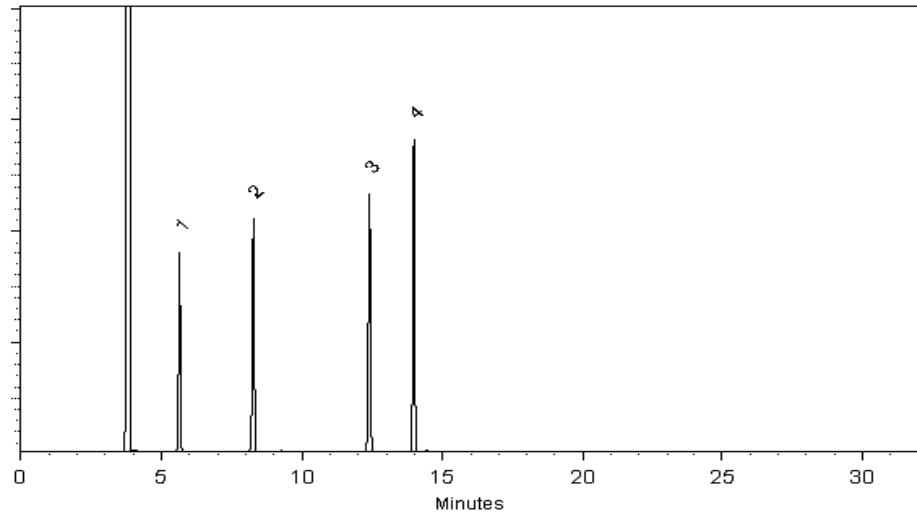
FID

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.


Bryan Snyder - Operations Tech I

Date Mixed: 14-Feb-2023

Balance Serial # 1128342314


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Feb-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_QC_2K_GAS_00225



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Column:

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

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

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

Inj. Temp:

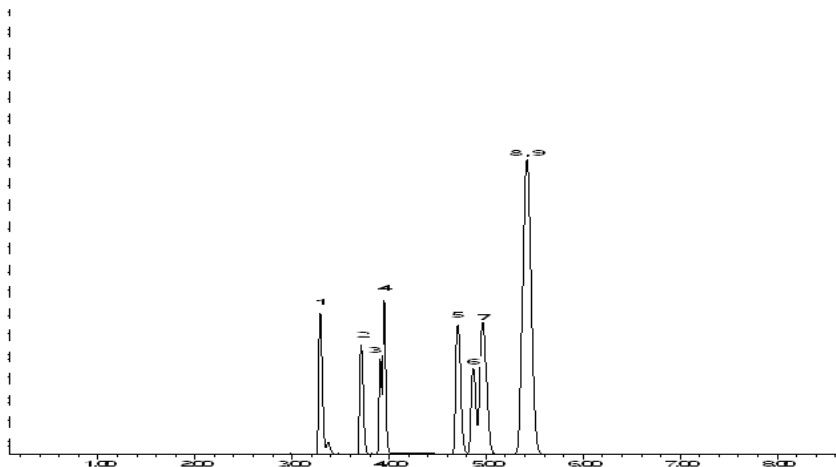
200°C

Det. Temp:

250°C

Det. Type:

MSD



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

Brandon Reish
Brandon Reish - Mix Technician

Date Mixed: 05-May-2022

Balance: 1127510105

Marlina Cowan
Marlina Cowan - Operations Tech I

Date Passed: 10-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_QC_2K_GAS_00233



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Column:

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

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

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

Inj. Temp:

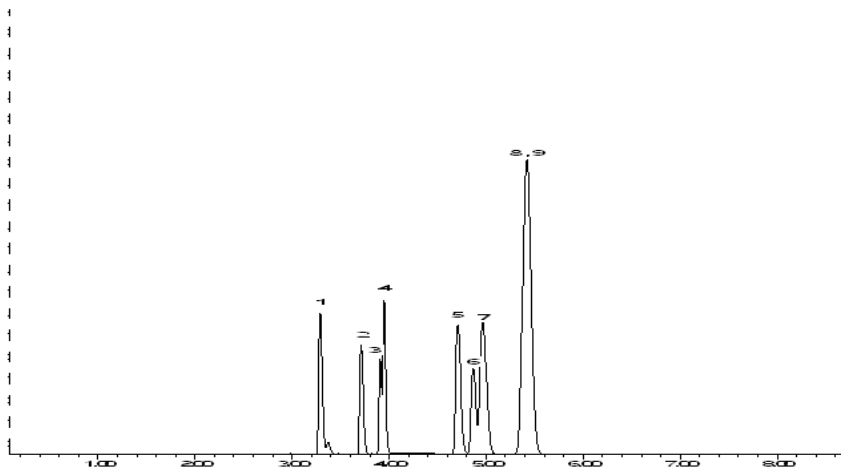
200°C

Det. Temp:

250°C

Det. Type:

MSD



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

Brandon Reish
Brandon Reish - Mix Technician

Date Mixed: 05-May-2022

Balance: 1127510105

Marlina Cowan
Marlina Cowan - Operations Tech I

Date Passed: 10-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_2CLEVE_00186



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. : 577492 **Lot No.:** A0197472

Description : Custom 2-CEVE Standard
Custom 2-CEVE 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	2-Chloroethyl vinyl ether	110-75-8	MKBS6526V	99%	5,040.0 µg/mL	+/- 62.7237

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

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

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

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:

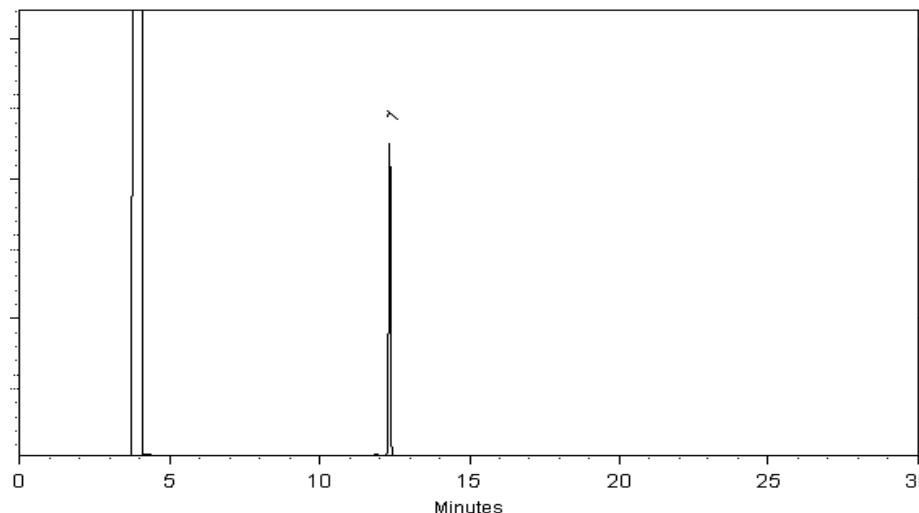
FID

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.

Russ Bookhamer - Operations Technician I

Date Mixed: 26-Apr-2023

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-May-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_Ketones_00172



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.:** A0193494

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 : January 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	Acetone	67-64-1	SHBP8774	99%	12,581.8 µg/mL	+/- 434.7671
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	12,578.5 µg/mL	+/- 434.6548
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	12,602.3 µg/mL	+/- 435.4755
4	2-Hexanone	591-78-6	MKCQ6663	99%	12,587.5 µg/mL	+/- 434.9658

* 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:

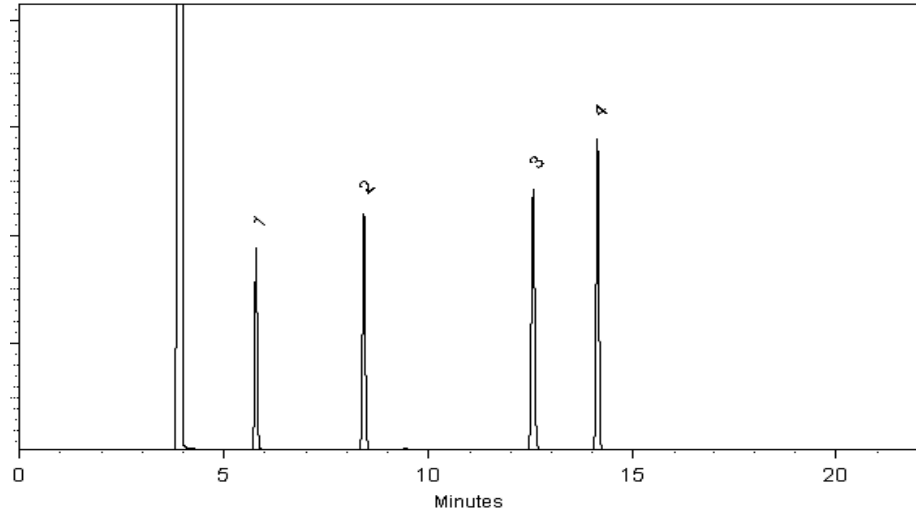
FID

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.

Bethany Lowery - Operations Tech I

Date Mixed: 12-Jan-2023

Balance Serial # B251644995

Christie Mills - Operations Tech II - ARM QC

Date Passed: 16-Jan-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_Ketones_00190



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.:** A0203422

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 : 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	Acetone	67-64-1	27D1062005	99%	12,507.0 µg/mL	+/- 432.2709
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	12,507.0 µg/mL	+/- 432.2709
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	12,507.0 µg/mL	+/- 432.2709
4	2-Hexanone	591-78-6	MKCQ6663	99%	12,506.0 µg/mL	+/- 432.2364

* 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:

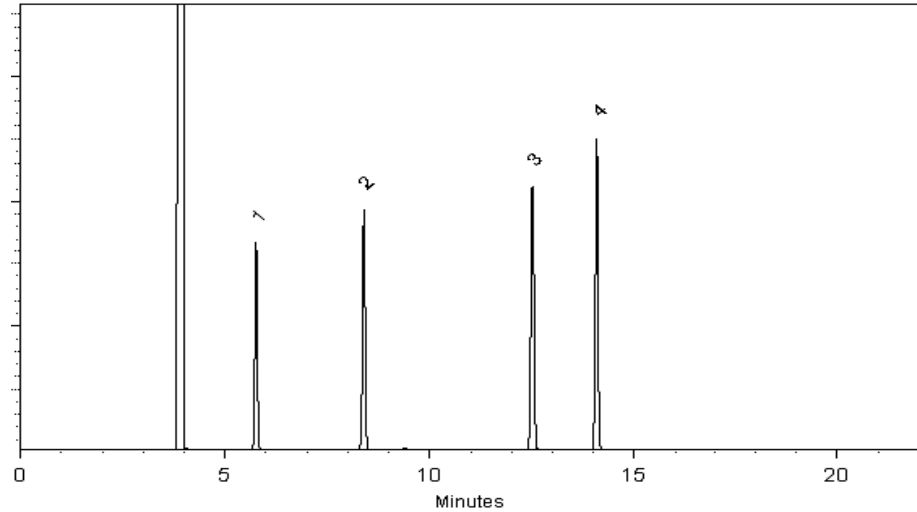
FID

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.


Laith Clemente - Operations Technician I

Date Mixed: 20-Oct-2023

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-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_V_PentaCL_00049



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577491 **Lot No.:** A0184174

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, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Pentachloroethane		5,022.0 μg/mL	+/-	29.4719	μg/mL	Gravimetric
	CAS # 76-01-7	(Lot 10518800)		+/-	281.6071	μg/mL	Unstressed
	Purity 99%			+/-	288.1950	μg/mL	Stressed

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

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

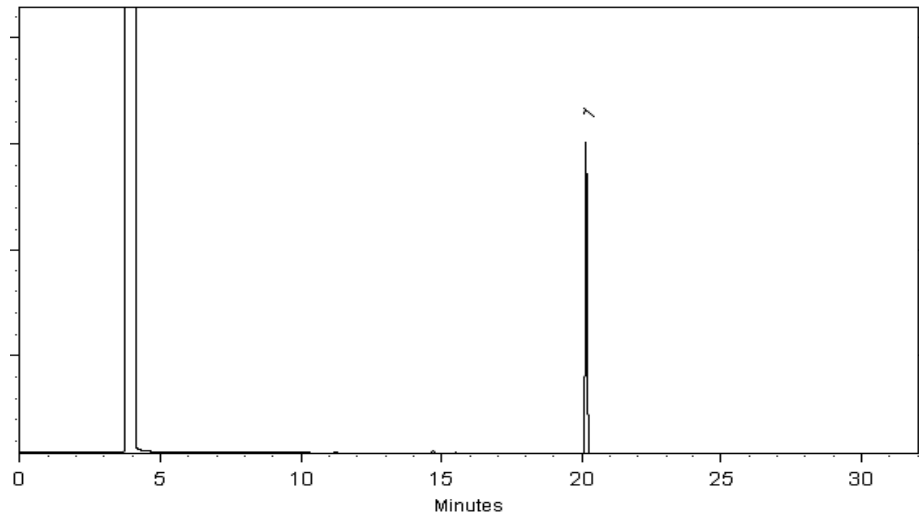
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Nick Yaw
Nick Yaw - Operations Tech I

Christie Mills
Christie Mills - Operations Technician II

Date Mixed: 15-Apr-2022 **Balance:** B707717271

Date Passed: 20-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_SMFreon_00044



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

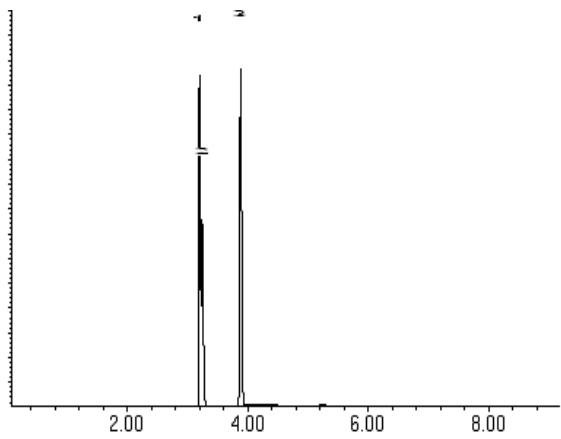
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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


Cathleen Soltis - Mix Technician

Date Mixed: 25-Apr-2022 Balance: B707717271


Christie Mills - Operations Technician II

Date Passed: 02-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Method 8260D 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.: 410-185105-1

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	410-185105-1	98	95	103	98
HD-COD-SW-7-0/1-0	410-185105-2	99	96	103	97
HD-COD-SW-8-0/1-0	410-185105-3	98	94	104	99
HD-COD-SW-9-0/1-0	410-185105-4	97	95	104	99
HD-COD-SW-13-0/1-0	410-185105-5	99	97	103	99
HD-COD-SW-15-0/1-0	410-185105-6	98	97	102	97
HD-COD-SW-16-0/1-0	410-185105-7	98	93	104	100
HD-COD-SW-17-0/1-0	410-185105-8	98	95	100	98
HD-COD-SW-17-0/1-0 DL	410-185105-8 DL	98	95	103	100
HD-COD-SW-26-0/1-0	410-185105-9	97	98	102	99
HD-COD-SW-27-0/1-0	410-185105-10	98	96	102	98
HD-COD-SW-28-0/1-0	410-185105-11	98	96	103	99
HD-COD-SW-29-0/1-0	410-185105-12	97	92	103	97
HD-QC1-0/1-1	410-185105-13	97	96	100	98
HD-QC1-0/1-1 DL	410-185105-13 DL	98	94	103	98
HD-QC1-0/1-2	410-185105-14	97	97	104	101
	MB 410-545038/7	97	95	102	100
	LCS 410-545038/4	97	93	104	101
	LCSD 410-545038/5	96	92	105	101
HD-COD-SW-15-0/1-0 MS MS	410-185105-6 MS	97	94	105	101
HD-COD-SW-15-0/1-0 MSD MSD	410-185105-6 MSD	97	94	104	101

QC LIMITS

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

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

Column to be used to flag recovery values

FORM II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: HG27X33.D

Lab ID: LCS 410-545038/4

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	4.48	90	80-122	
1,1,1-Trichloroethane	5.00	4.68	94	78-126	
1,1,2,2-Tetrachloroethane	5.00	4.51	90	75-123	
1,1,2-Trichloroethane	5.00	4.36	87	80-120	
1,1-Dichloroethane	5.00	4.97	99	74-120	
1,1-Dichloroethene	5.00	4.82	96	80-131	
1,2-Dibromoethane (EDB)	5.00	4.30	86	80-120	
1,2-Dichloroethane	5.00	4.39	88	69-122	
1,2-Dichloropropane	5.00	4.87	97	80-120	
2-Butanone (MEK)	62.5	58.4	93	59-141	
2-Hexanone	62.5	56.6	91	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	56.6	91	55-140	
Acetone	62.5	52.3	84	60-146	
Benzene	5.00	4.66	93	80-120	
Bromochloromethane	5.00	4.32	86	80-133	
Bromodichloromethane	5.00	4.52	90	80-123	
Bromoform	5.00	4.01	80	75-126	
Bromomethane	5.00	4.36	87	63-120	
Carbon disulfide	5.00	4.87	97	67-130	
Carbon tetrachloride	5.00	4.68	94	64-141	
Chlorobenzene	5.00	4.49	90	80-120	
Chloroethane	5.00	4.67	93	63-120	
Chloroform	5.00	4.62	92	80-120	
Chloromethane	5.00	4.84	97	56-124	
cis-1,2-Dichloroethene	5.00	4.55	91	80-122	
cis-1,3-Dichloropropene	5.00	4.26	85	67-121	
Dibromochloromethane	5.00	4.39	88	80-123	
Ethylbenzene	5.00	4.63	93	80-120	
Methyl tert-butyl ether	5.00	4.27	85	69-120	
Methylene Chloride	5.00	4.42	88	80-120	
Styrene	5.00	4.62	92	80-120	
Tetrachloroethene	5.00	4.30	86	80-120	
Toluene	5.00	4.57	91	80-120	
trans-1,2-Dichloroethene	5.00	4.66	93	80-122	
trans-1,3-Dichloropropene	5.00	4.51	90	61-129	
Trichloroethene	5.00	4.42	88	80-120	
Vinyl chloride	5.00	4.71	94	60-125	
Xylenes, Total	15.0	13.9	92	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: HG27X34.D

Lab ID: LCSD 410-545038/5

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	5.00	4.43	89	1	30	80-122	
1,1,1-Trichloroethane	5.00	4.61	92	2	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	4.53	91	0	30	75-123	
1,1,2-Trichloroethane	5.00	4.38	88	1	30	80-120	
1,1-Dichloroethane	5.00	4.84	97	3	30	74-120	
1,1-Dichloroethene	5.00	4.79	96	1	30	80-131	
1,2-Dibromoethane (EDB)	5.00	4.23	85	2	30	80-120	
1,2-Dichloroethane	5.00	4.44	89	1	30	69-122	
1,2-Dichloropropane	5.00	4.75	95	3	30	80-120	
2-Butanone (MEK)	62.5	64.1	102	9	30	59-141	
2-Hexanone	62.5	59.4	95	5	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	58.8	94	4	30	55-140	
Acetone	62.5	54.4	87	4	30	60-146	
Benzene	5.00	4.58	92	2	30	80-120	
Bromochloromethane	5.00	4.31	86	0	30	80-133	
Bromodichloromethane	5.00	4.50	90	0	30	80-123	
Bromoform	5.00	3.98	80	1	30	75-126	
Bromomethane	5.00	4.28	86	2	30	63-120	
Carbon disulfide	5.00	4.76	95	2	30	67-130	
Carbon tetrachloride	5.00	4.54	91	3	30	64-141	
Chlorobenzene	5.00	4.49	90	0	30	80-120	
Chloroethane	5.00	4.59	92	2	30	63-120	
Chloroform	5.00	4.52	90	2	30	80-120	
Chloromethane	5.00	4.86	97	1	30	56-124	
cis-1,2-Dichloroethene	5.00	4.51	90	1	30	80-122	
cis-1,3-Dichloropropene	5.00	4.22	84	1	30	67-121	
Dibromochloromethane	5.00	4.38	88	0	30	80-123	
Ethylbenzene	5.00	4.58	92	1	30	80-120	
Methyl tert-butyl ether	5.00	4.23	85	1	30	69-120	
Methylene Chloride	5.00	4.38	88	1	30	80-120	
Styrene	5.00	4.58	92	1	30	80-120	
Tetrachloroethene	5.00	4.30	86	0	30	80-120	
Toluene	5.00	4.54	91	1	30	80-120	
trans-1,2-Dichloroethene	5.00	4.56	91	2	30	80-122	
trans-1,3-Dichloropropene	5.00	4.47	89	1	30	61-129	
Trichloroethene	5.00	4.34	87	2	30	80-120	
Vinyl chloride	5.00	4.60	92	2	30	60-125	
Xylenes, Total	15.0	13.8	92	1	30	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: HG27X45.D

Lab ID: 410-185105-6 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	4.53	90	80-122	
1,1,1-Trichloroethane	5.00	0.28 J	5.45	103	78-126	
1,1,2,2-Tetrachloroethane	5.00	ND	4.42	88	75-123	
1,1,2-Trichloroethane	5.00	ND	4.33	86	80-120	
1,1-Dichloroethane	5.00	0.10 J	5.29	106	74-120	
1,1-Dichloroethene	5.00	0.14 J	5.75	112	80-131	
1,2-Dibromoethane (EDB)	5.00	ND	4.25	85	80-120	
1,2-Dichloroethane	5.00	ND	4.39	88	69-122	
1,2-Dichloropropane	5.00	ND	5.04	101	80-120	
2-Butanone (MEK)	62.6	ND	60.4	97	59-141	
2-Hexanone	62.6	ND	59.5	95	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	ND	58.6	94	55-140	
Acetone	62.6	ND	53.3	85	60-146	
Benzene	5.00	ND	4.90	98	80-120	
Bromochloromethane	5.00	ND	4.42	88	80-133	
Bromodichloromethane	5.00	ND	4.54	91	80-123	
Bromoform	5.00	ND	3.84	77	75-126	
Bromomethane	5.00	ND	5.23	105	63-120	
Carbon disulfide	5.00	ND	5.57	111	67-130	
Carbon tetrachloride	5.00	ND	5.23	104	64-141	
Chlorobenzene	5.00	ND	4.66	93	80-120	
Chloroethane	5.00	ND	5.67	113	63-120	
Chloroform	5.00	0.15 J	4.95	96	80-120	
Chloromethane	5.00	ND	5.94	119	80-120	
cis-1,2-Dichloroethene	5.00	0.90	5.76	97	80-122	
cis-1,3-Dichloropropene	5.00	ND	4.26	85	67-121	
Dibromochloromethane	5.00	ND	4.34	87	80-123	
Ethylbenzene	5.00	ND	4.86	97	80-120	
Methyl tert-butyl ether	5.00	ND	4.32	86	69-120	
Methylene Chloride	5.00	ND	4.66	93	80-120	
Styrene	5.00	ND	4.70	94	80-120	
Tetrachloroethene	5.00	4.6	9.48	98	80-120	
Toluene	5.00	ND	4.85	97	80-120	
trans-1,2-Dichloroethene	5.00	ND	5.03	100	80-122	
trans-1,3-Dichloropropene	5.00	ND	4.32	86	61-129	
Trichloroethene	5.00	0.95	5.63	94	80-120	
Vinyl chloride	5.00	ND	6.01	120	60-125	
Xylenes, Total	15.0	ND	14.4	96	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.: 410-185105-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: HG27X46.D

Lab ID: 410-185105-6 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	4.50	90	1	30	80-122	
1,1,1-Trichloroethane	5.00	5.36	101	2	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	4.39	88	1	30	75-123	
1,1,2-Trichloroethane	5.00	4.36	87	1	30	80-120	
1,1-Dichloroethane	5.00	5.31	106	0	30	74-120	
1,1-Dichloroethene	5.00	5.66	110	2	30	80-131	
1,2-Dibromoethane (EDB)	5.00	4.30	86	1	30	80-120	
1,2-Dichloroethane	5.00	4.44	89	1	30	69-122	
1,2-Dichloropropane	5.00	4.93	98	2	30	80-120	
2-Butanone (MEK)	62.6	59.7	95	1	30	59-141	
2-Hexanone	62.6	62.1	99	4	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	60.9	97	4	30	55-140	
Acetone	62.6	53.1	85	0	30	60-146	
Benzene	5.00	4.85	97	1	30	80-120	
Bromochloromethane	5.00	4.39	88	1	30	80-133	
Bromodichloromethane	5.00	4.48	90	1	30	80-123	
Bromoform	5.00	3.90	78	1	30	75-126	
Bromomethane	5.00	5.03	100	4	30	63-120	
Carbon disulfide	5.00	5.50	110	1	30	67-130	
Carbon tetrachloride	5.00	5.08	101	3	30	64-141	
Chlorobenzene	5.00	4.58	92	2	30	80-120	
Chloroethane	5.00	5.55	111	2	30	63-120	
Chloroform	5.00	4.83	93	2	30	80-120	
Chloromethane	5.00	5.55	111	7	30	80-120	
cis-1,2-Dichloroethene	5.00	5.65	95	2	30	80-122	
cis-1,3-Dichloropropene	5.00	4.24	85	0	30	67-121	
Dibromochloromethane	5.00	4.31	86	1	30	80-123	
Ethylbenzene	5.00	4.78	95	2	30	80-120	
Methyl tert-butyl ether	5.00	4.23	85	2	30	69-120	
Methylene Chloride	5.00	4.63	93	1	30	80-120	
Styrene	5.00	4.68	94	0	30	80-120	
Tetrachloroethene	5.00	9.41	97	1	30	80-120	
Toluene	5.00	4.80	96	1	30	80-120	
trans-1,2-Dichloroethene	5.00	5.01	100	0	30	80-122	
trans-1,3-Dichloropropene	5.00	4.37	87	1	30	61-129	
Trichloroethene	5.00	5.58	93	1	30	80-120	
Vinyl chloride	5.00	5.89	118	2	30	60-125	
Xylenes, Total	15.0	14.2	95	1	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.: 410-185105-1

SDG No.:

Lab File ID: HG27X36.D

Lab Sample ID: MB 410-545038/7

Matrix: Water

Heated Purge: (Y/N) N

Instrument ID: 19094

Date Analyzed: 08/27/2024 22:40

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 410-545038/4	HG27X33.D	08/27/2024 21:38
	LCSD 410-545038/5	HG27X34.D	08/27/2024 21:59
HD-QC1-0/1-2	410-185105-14	HG27X38.D	08/27/2024 23:22
HD-COD-SW-6-0/1-0	410-185105-1	HG27X39.D	08/27/2024 23:43
HD-COD-SW-7-0/1-0	410-185105-2	HG27X40.D	08/28/2024 00:04
HD-COD-SW-8-0/1-0	410-185105-3	HG27X41.D	08/28/2024 00:24
HD-COD-SW-9-0/1-0	410-185105-4	HG27X42.D	08/28/2024 00:45
HD-COD-SW-13-0/1-0	410-185105-5	HG27X43.D	08/28/2024 01:05
HD-COD-SW-15-0/1-0	410-185105-6	HG27X44.D	08/28/2024 01:26
HD-COD-SW-15-0/1-0 MS MS	410-185105-6 MS	HG27X45.D	08/28/2024 01:47
HD-COD-SW-15-0/1-0 MSD MSD	410-185105-6 MSD	HG27X46.D	08/28/2024 02:07
HD-COD-SW-16-0/1-0	410-185105-7	HG27X47.D	08/28/2024 02:28
HD-COD-SW-26-0/1-0	410-185105-9	HG27X48.D	08/28/2024 02:49
HD-COD-SW-27-0/1-0	410-185105-10	HG27X49.D	08/28/2024 03:10
HD-COD-SW-28-0/1-0	410-185105-11	HG27X50.D	08/28/2024 03:31
HD-COD-SW-29-0/1-0	410-185105-12	HG27X51.D	08/28/2024 03:52
HD-COD-SW-17-0/1-0	410-185105-8	HG27X52.D	08/28/2024 04:12
HD-COD-SW-17-0/1-0 DL	410-185105-8 DL	HG27X53.D	08/28/2024 04:33
HD-QC1-0/1-1	410-185105-13	HG27X54.D	08/28/2024 04:54
HD-QC1-0/1-1 DL	410-185105-13 DL	HG27X55.D	08/28/2024 05:14

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

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1
Environment Testing, LLC

SDG No.: _____

Lab File ID: HL17T01.D BFB Injection Date: 07/17/2024

Instrument ID: 19094 BFB Injection Time: 13:29

Analysis Batch No.: 529291

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.9
75	30.0 - 60.0 % of mass 95	47.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.0
173	Less than 2.0 % of mass 174	1.0 (1.1) 1
174	Greater than 50% of mass 95	90.6
175	5.0 - 9.0 % of mass 174	6.7 (7.4) 1
176	95.0 - 101.0 % of mass 174	88.5 (97.6) 1
177	5.0 - 9.0 % of mass 176	5.8 (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
	IC 410-529291/3	HL17X02.D	07/17/2024	14:03
	IC 410-529291/4	HL17X03.D	07/17/2024	14:24
	IC 410-529291/5	HL17X04.D	07/17/2024	14:44
	IC 410-529291/6	HL17X05.D	07/17/2024	15:05
	IC 410-529291/7	HL17X06.D	07/17/2024	15:26
	IC 410-529291/8	HL17X07.D	07/17/2024	15:46
	IC 410-529291/9	HL17X08.D	07/17/2024	16:07
	IC 410-529291/13	HL17X12.D	07/17/2024	17:30
	IC 410-529291/14	HL17X13.D	07/17/2024	17:51
	IC 410-529291/15	HL17X14.D	07/17/2024	18:12
	IC 410-529291/16	HL17X15.D	07/17/2024	18:32
	IC 410-529291/17	HL17X16.D	07/17/2024	18:53
	ICIS 410-529291/18	HL17X17.D	07/17/2024	19:14
	IC 410-529291/19	HL17X18.D	07/17/2024	19:35
	ICV 410-529291/21	HL17X20.D	07/17/2024	20:16

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

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

Lab File ID: HG27T31.D

BFB Injection Date: 08/27/2024

Instrument ID: 19094

BFB Injection Time: 20:38

Analysis Batch No.: 545038

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.1
75	30.0 - 60.0 % of mass 95	48.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.5
173	Less than 2.0 % of mass 174	1.0 (1.2) 1
174	Greater than 50% of mass 95	83.7
175	5.0 - 9.0 % of mass 174	6.3 (7.5) 1
176	95.0 - 101.0 % of mass 174	80.0 (95.6) 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 410-545038/3	HG27X32.D	08/27/2024	21:18
	LCS 410-545038/4	HG27X33.D	08/27/2024	21:38
	LCSD 410-545038/5	HG27X34.D	08/27/2024	21:59
	MB 410-545038/7	HG27X36.D	08/27/2024	22:40
HD-QC1-0/1-2	410-185105-14	HG27X38.D	08/27/2024	23:22
HD-COD-SW-6-0/1-0	410-185105-1	HG27X39.D	08/27/2024	23:43
HD-COD-SW-7-0/1-0	410-185105-2	HG27X40.D	08/28/2024	0:04
HD-COD-SW-8-0/1-0	410-185105-3	HG27X41.D	08/28/2024	0:24
HD-COD-SW-9-0/1-0	410-185105-4	HG27X42.D	08/28/2024	0:45
HD-COD-SW-13-0/1-0	410-185105-5	HG27X43.D	08/28/2024	1:05
HD-COD-SW-15-0/1-0	410-185105-6	HG27X44.D	08/28/2024	1:26
HD-COD-SW-15-0/1-0 MS MS	410-185105-6 MS	HG27X45.D	08/28/2024	1:47
HD-COD-SW-15-0/1-0 MSD MSD	410-185105-6 MSD	HG27X46.D	08/28/2024	2:07
HD-COD-SW-16-0/1-0	410-185105-7	HG27X47.D	08/28/2024	2:28
HD-COD-SW-26-0/1-0	410-185105-9	HG27X48.D	08/28/2024	2:49
HD-COD-SW-27-0/1-0	410-185105-10	HG27X49.D	08/28/2024	3:10
HD-COD-SW-28-0/1-0	410-185105-11	HG27X50.D	08/28/2024	3:31
HD-COD-SW-29-0/1-0	410-185105-12	HG27X51.D	08/28/2024	3:52
HD-COD-SW-17-0/1-0	410-185105-8	HG27X52.D	08/28/2024	4:12
HD-COD-SW-17-0/1-0 DL	410-185105-8 DL	HG27X53.D	08/28/2024	4:33
HD-QC1-0/1-1	410-185105-13	HG27X54.D	08/28/2024	4:54
HD-QC1-0/1-1 DL	410-185105-13 DL	HG27X55.D	08/28/2024	5:14

FORM VIII

Job No.: 410-185105-1

Sample No.: ICIS 410-529291/18

Date Analyzed: 07/17/2024 19:14

Instrument ID: 19094

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

Lab File ID (Standard): HL17X17.D

Heated Purge: (Y/N) N

Calibration ID: 63923

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		107980	3.97	2179990	7.47	1632214	11.02
UPPER LIMIT		215960	4.47	4359980	7.97	3264428	11.52
LOWER LIMIT		53990	3.47	1089995	6.97	816107	10.52
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-529291/21		104362	3.96	2170862	7.46	1625126	11.02
CCVIS 410-545038/3		177287	3.95	3356988	7.46	2432414	11.02

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.: 410-185105-1

Sample No.: ICIS 410-529291/18

Date Analyzed: 07/17/2024 19:14

GC Column: R-624SilMS 30m

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration ID: 63923

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		922380	12.93				
UPPER LIMIT		1844760	13.43				
LOWER LIMIT		461190	12.43				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-529291/21		911210	12.93				
CCVIS 410-545038/3		1340352	12.93				

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.: 410-185105-1
Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-545038/3 Date Analyzed: 08/27/2024 21:18

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

Lab File ID (Standard): HG27X32.D Heated Purge: (Y/N) N

Calibration ID: 63923

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		177287	3.95	3356988	7.46	2432414	11.02
UPPER LIMIT		354574	4.45	6713976	7.96	4864828	11.52
LOWER LIMIT		88644	3.45	1678494	6.96	1216207	10.52
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-545038/4		171427	3.96	3259149	7.46	2381602	11.02
LCSD 410-545038/5		163806	3.96	3292391	7.46	2395207	11.02
MB 410-545038/7		159812	3.96	3079212	7.46	2261150	11.02
410-185105-14	HD-QC1-0/1-2	174523	3.94	3065668	7.46	2230531	11.02
410-185105-1	HD-COD-SW-6-0/1-0	177364	3.96	3124616	7.46	2272592	11.02
410-185105-2	HD-COD-SW-7-0/1-0	151642	3.96	3070581	7.46	2260698	11.02
410-185105-3	HD-COD-SW-8-0/1-0	162431	3.95	3052604	7.46	2212853	11.02
410-185105-4	HD-COD-SW-9-0/1-0	164268	3.95	3051160	7.46	2221339	11.02
410-185105-5	HD-COD-SW-13-0/1-0	151721	3.95	2994622	7.46	2214923	11.02
410-185105-6	HD-COD-SW-15-0/1-0	139349	3.95	3008540	7.46	2243528	11.02
410-185105-6 MS	HD-COD-SW-15-0/1-0 MS MS	152038	3.96	3183048	7.46	2335567	11.02
410-185105-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	147710	3.95	3175827	7.46	2324277	11.02
410-185105-7	HD-COD-SW-16-0/1-0	143344	3.95	3071118	7.46	2229283	11.02
410-185105-9	HD-COD-SW-26-0/1-0	179116	3.96	3131365	7.46	2303235	11.02
410-185105-10	HD-COD-SW-27-0/1-0	171546	3.95	3075715	7.46	2265960	11.02
410-185105-11	HD-COD-SW-28-0/1-0	159941	3.95	3092625	7.46	2257304	11.02
410-185105-12	HD-COD-SW-29-0/1-0	146990	3.96	3053708	7.46	2252507	11.02
410-185105-8	HD-COD-SW-17-0/1-0	171521	3.94	3057294	7.46	2302753	11.02
410-185105-8 DL	HD-COD-SW-17-0/1-0 DL	166171	3.95	3073638	7.46	2253104	11.02
410-185105-13	HD-QC1-0/1-1	170645	3.95	3073434	7.46	2339312	11.02
410-185105-13 DL	HD-QC1-0/1-1 DL	165284	3.95	3035794	7.46	2238902	11.02

TBA_d10 = t-Butyl alcohol-d₁₀ (IS)

FB = Fluorobenzene (IS)

CBZ_d5 = Chlorobenzene-d₅ (IS)

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

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1
Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-545038/3 Date Analyzed: 08/27/2024 21:18

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

Lab File ID (Standard): HG27X32.D Heated Purge: (Y/N) N

Calibration ID: 63923

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		1340352	12.93				
UPPER LIMIT		2680704	13.43				
LOWER LIMIT		670176	12.43				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-545038/4		1315811	12.93				
LCSD 410-545038/5		1300362	12.93				
MB 410-545038/7		1212763	12.93				
410-185105-14	HD-QC1-0/1-2	1205707	12.93				
410-185105-1	HD-COD-SW-6-0/1-0	1194077	12.93				
410-185105-2	HD-COD-SW-7-0/1-0	1211115	12.93				
410-185105-3	HD-COD-SW-8-0/1-0	1173152	12.93				
410-185105-4	HD-COD-SW-9-0/1-0	1180260	12.93				
410-185105-5	HD-COD-SW-13-0/1-0	1175007	12.93				
410-185105-6	HD-COD-SW-15-0/1-0	1173523	12.93				
410-185105-6 MS	HD-COD-SW-15-0/1-0 MS MS	1289875	12.93				
410-185105-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	1288127	12.93				
410-185105-7	HD-COD-SW-16-0/1-0	1190367	12.93				
410-185105-9	HD-COD-SW-26-0/1-0	1231847	12.93				
410-185105-10	HD-COD-SW-27-0/1-0	1195225	12.93				
410-185105-11	HD-COD-SW-28-0/1-0	1199057	12.93				
410-185105-12	HD-COD-SW-29-0/1-0	1184232	12.93				
410-185105-8	HD-COD-SW-17-0/1-0	1219658	12.93				
410-185105-8 DL	HD-COD-SW-17-0/1-0 DL	1183239	12.93				
410-185105-13	HD-QC1-0/1-1	1220956	12.93				
410-185105-13 DL	HD-QC1-0/1-1 DL	1170037	12.93				

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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-1

Matrix: Water

Lab File ID: HG27X39.D

Analysis Method: 8260D

Date Collected: 08/20/2024 10:40

Sample wt/vol: 25 (mL)

Date Analyzed: 08/27/2024 23:43

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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

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	^c cn	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.: 410-185105-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-6-0/1-0 Lab Sample ID: 410-185105-1

Matrix: Water Lab File ID: HG27X39.D

Analysis Method: 8260D Date Collected: 08/20/2024 10:40

Sample wt/vol: 25 (mL) Date Analyzed: 08/27/2024 23:43

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.: 545038 Units: ug/L

Preparation Batch No.: _____ Instrument ID: Agilent GC/MS - HP30

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)	95		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		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\20240827-123379.b\HG27X39.D
 Lims ID: 410-185105-A-1
 Client ID: HD-COD-SW-6-0/1-0
 Sample Type: Client
 Inject. Date: 27-Aug-2024 23:43:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0123379-010
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Aug-2024 12:34:21 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 12:34:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.062				ND	7
6 Vinyl chloride	62		2.172				ND	7
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.544				ND	
17 1,1-Dichloroethene	96		3.343				ND	
19 Acetone	43		3.361				ND	U
23 Carbon disulfide	76		3.629				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	3.958	3.952	0.006	27	177364	50.0	
27 Methylene Chloride	84	3.952	3.952	0.000	34	2916	0.0415	
32 Methyl tert-butyl ether	73		4.336				ND	
33 trans-1,2-Dichloroethene	96		4.355				ND	
36 1,1-Dichloroethane	63		5.007				ND	
41 2-Butanone (MEK)	43		5.818				ND	
42 cis-1,2-Dichloroethene	96		5.848				ND	7
48 Chlorobromomethane	128		6.183				ND	
50 Chloroform	83	6.342	6.336	0.006	85	3133	0.0250	M
\$ 52 Dibromofluoromethane (Surr)	113	6.562	6.555	0.007	94	748093	9.78	
53 1,1,1-Trichloroethane	97		6.567				ND	
56 Carbon tetrachloride	117		6.787				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.013	0.006	47	148220	9.48	
59 Benzene	78		7.049				ND	7
60 1,2-Dichloroethane	62		7.122				ND	
* 64 Fluorobenzene (IS)	96	7.458	7.464	-0.006	99	3124616	10.0	
68 Trichloroethene	95	7.964	7.951	0.013	89	2340	0.0309	M
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	
80 cis-1,3-Dichloropropene	75		9.201				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.378				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.524	9.524	0.000	94	3048876	10.3	
84 Toluene	92	9.604	9.603	0.001	98	8979	0.0500	
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166		10.170				ND	7
109 2-Hexanone	43		10.305				ND	7
111 Chlorodibromomethane	129		10.469				ND	
112 Ethylene Dibromide	107		10.585				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	2272592	10.0	
115 Chlorobenzene	112		11.048				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	7
120 o-Xylene	106		11.591				ND	7
121 Styrene	104		11.609				ND	7
122 Bromoform	173		11.768				ND	7
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	90	1084999	9.83	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	96	1194077	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_LLcentISS_00013

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 28-Aug-2024 12:34:21

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X39.D

Injection Date: 27-Aug-2024 23:43:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-185105-A-1

Lab Sample ID: 410-185105-1

Worklist Smp#: 10

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

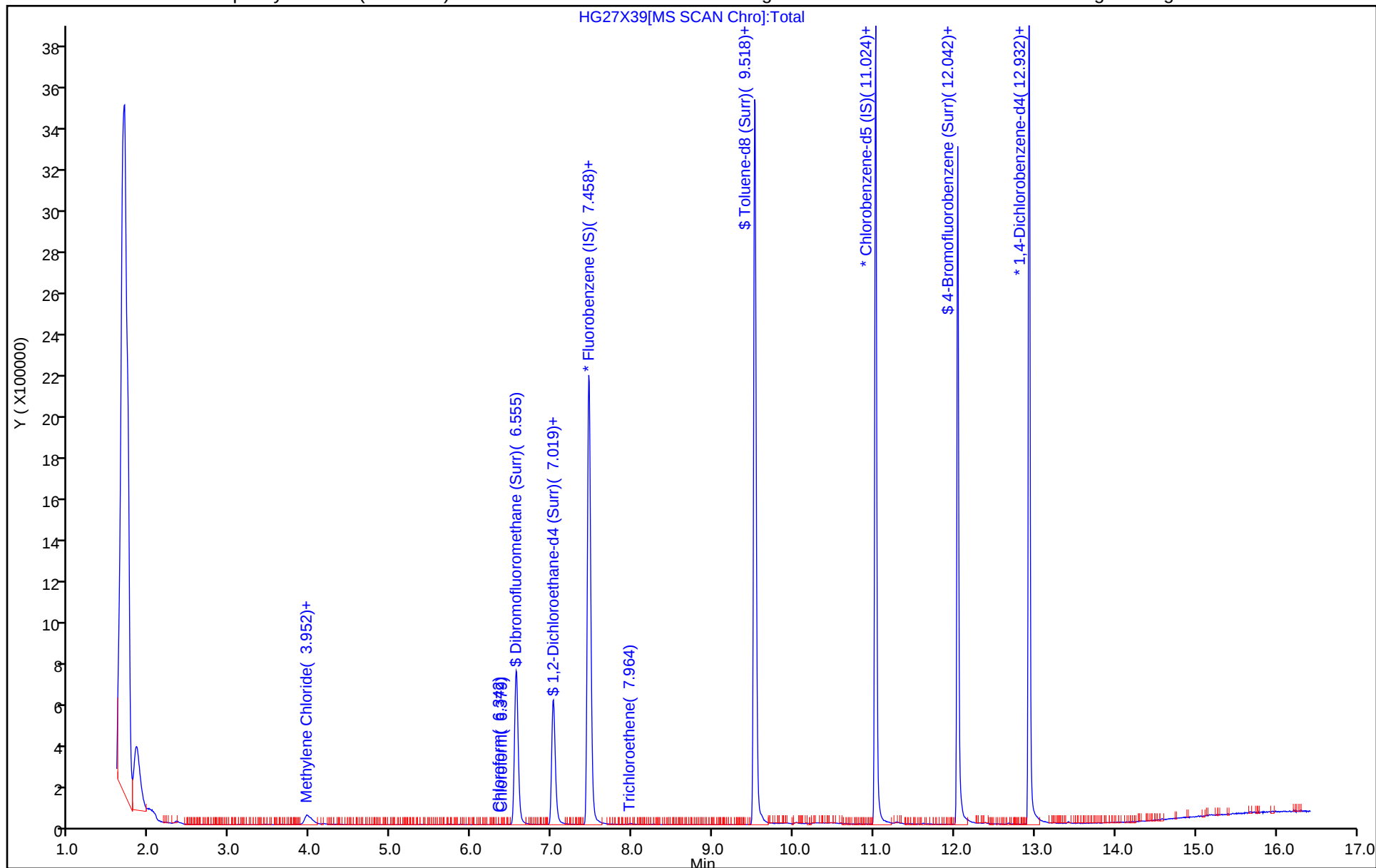
ALS Bottle#: 9

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\20240827-123379.b\HG27X39.D
Lims ID: 410-185105-A-1
Client ID: HD-COD-SW-6-0/1-0
Sample Type: Client
Inject. Date: 27-Aug-2024 23:43:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0123379-010
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Aug-2024 12:34:21 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 12:34:21

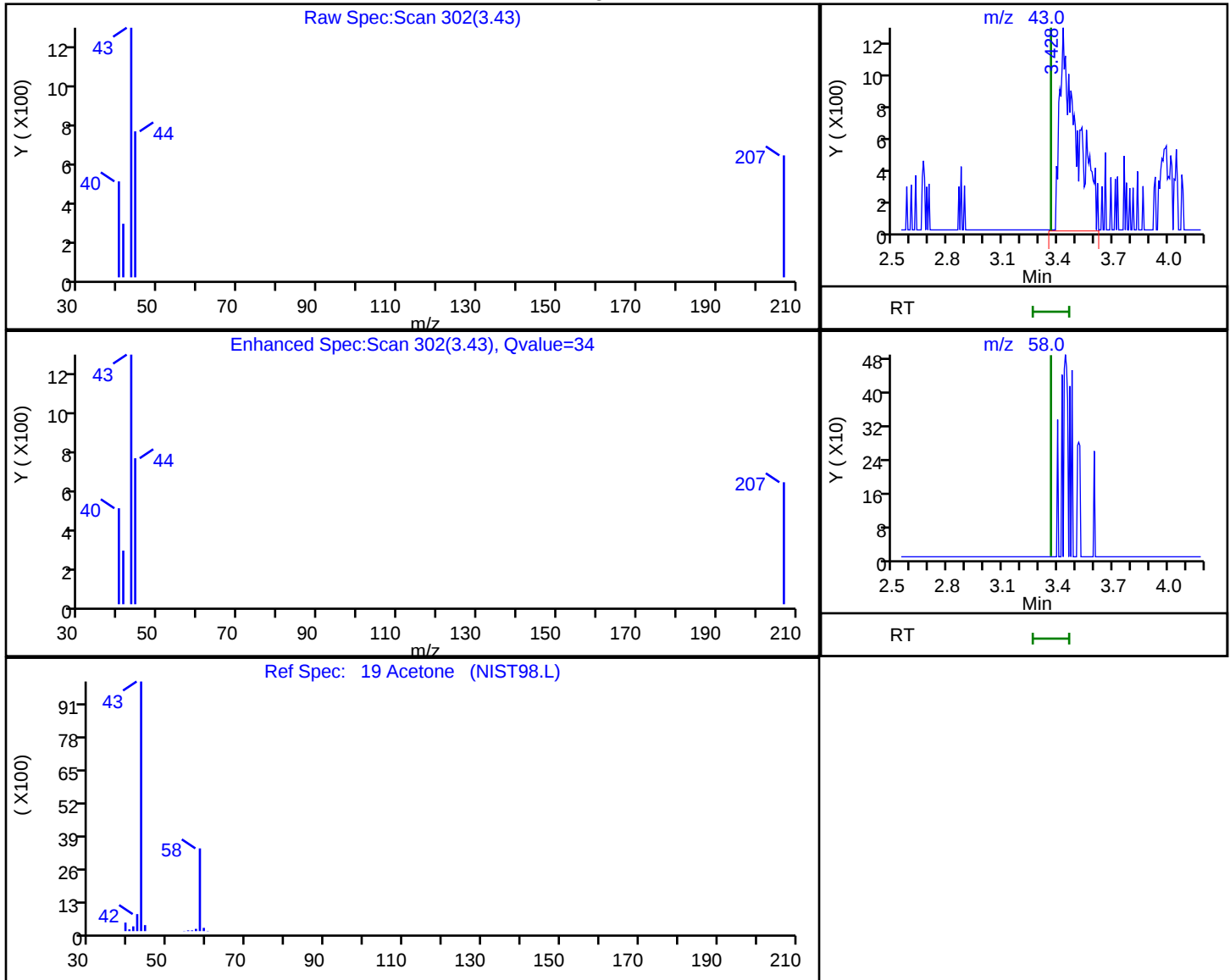
Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.78	97.77
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.48	94.83
\$ 83 Toluene-d8 (Surr)	10.0	10.3	103.16
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.83	98.31

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X39.D
Injection Date: 27-Aug-2024 23:43:30 Instrument ID: 19094
Lims ID: 410-185105-A-1 Lab Sample ID: 410-185105-1
Client ID: HD-COD-SW-6-0/1-0
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 i.d.) Detector: MS Quad

19 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.43	43.00	8360	0.885561
3.36	58.00	0	

Reviewer: N9NA, 28-Aug-2024 12:33:33 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

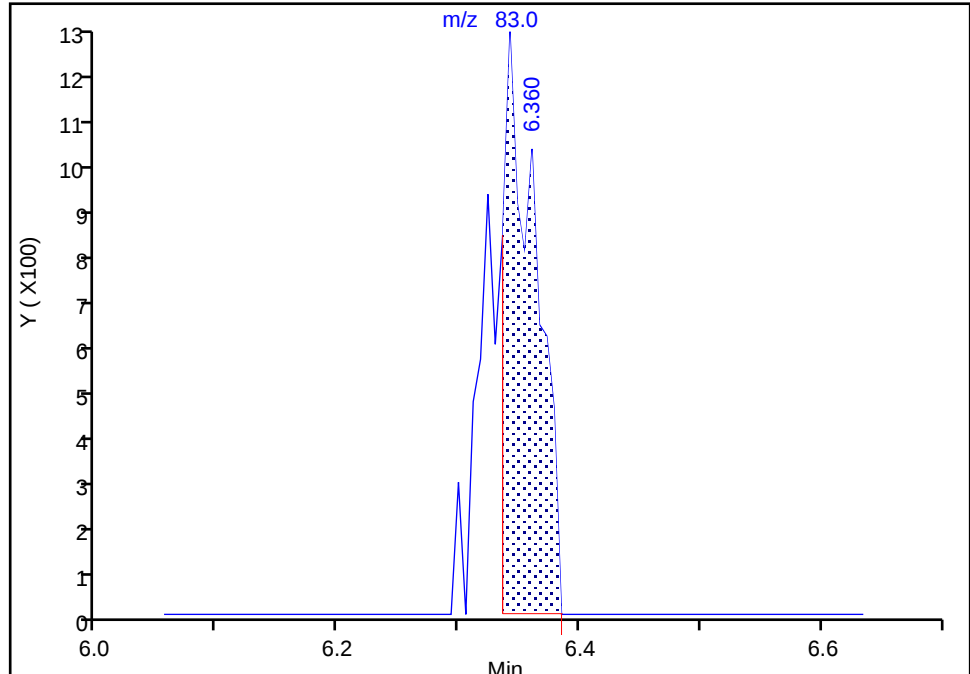
Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X39.D
Injection Date: 27-Aug-2024 23:43:30 Instrument ID: 19094
Lims ID: 410-185105-A-1 Lab Sample ID: 410-185105-1
Client ID: HD-COD-SW-6-0/1-0
Operator ID: gaw91131 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

50 Chloroform, CAS: 67-66-3

Signal: 1

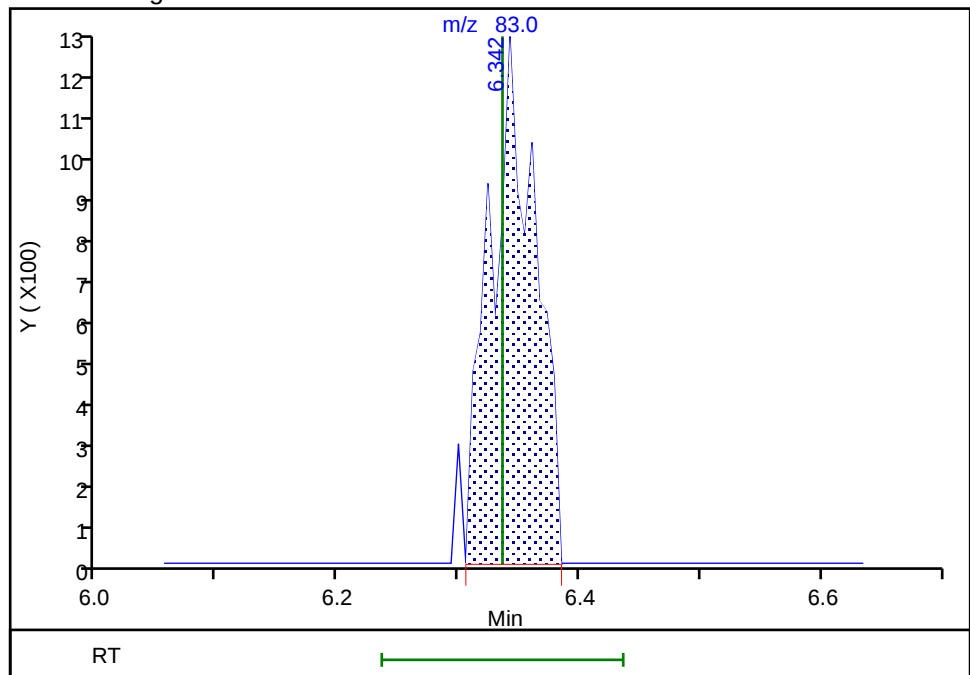
RT: 6.36
Area: 2254
Amount: 0.018021
Amount Units: ug/l

Processing Integration Results



RT: 6.34
Area: 3133
Amount: 0.025049
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 28-Aug-2024 12:33:50 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

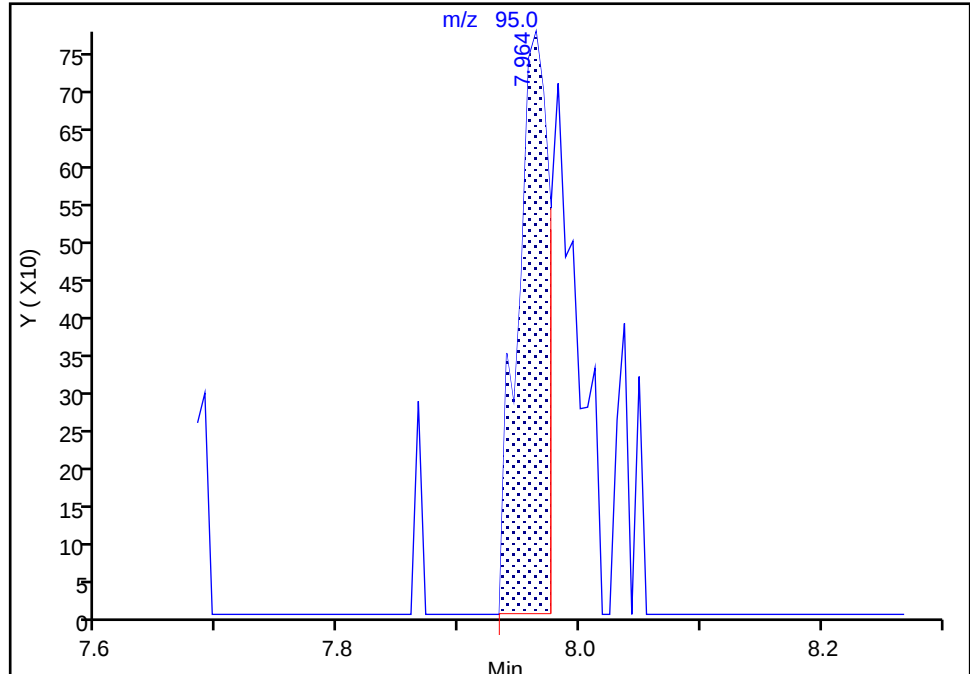
Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X39.D
Injection Date: 27-Aug-2024 23:43:30 Instrument ID: 19094
Lims ID: 410-185105-A-1 Lab Sample ID: 410-185105-1
Client ID: HD-COD-SW-6-0/1-0
Operator ID: gaw91131 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 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

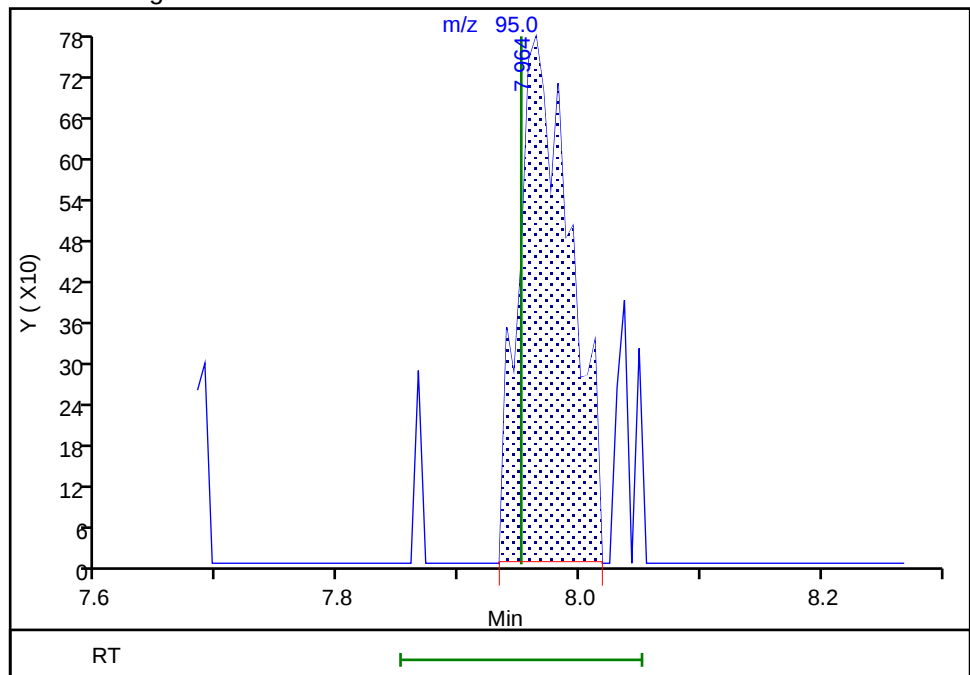
RT: 7.96
Area: 1406
Amount: 0.018550
Amount Units: ug/l

Processing Integration Results



RT: 7.96
Area: 2340
Amount: 0.030872
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 28-Aug-2024 12:34:11 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-2

Matrix: Water

Lab File ID: HG27X40.D

Analysis Method: 8260D

Date Collected: 08/20/2024 11:23

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 00:04

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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

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	^c cn	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	0.12	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.: 410-185105-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-7-0/1-0 Lab Sample ID: 410-185105-2

Matrix: Water Lab File ID: HG27X40.D

Analysis Method: 8260D Date Collected: 08/20/2024 11:23

Sample wt/vol: 25 (mL) Date Analyzed: 08/28/2024 00:04

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.: 545038 Units: ug/L

Preparation Batch No.: _____ Instrument ID: Agilent GC/MS - HP30

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)	96		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)	103		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X40.D
 Lims ID: 410-185105-A-2
 Client ID: HD-COD-SW-7-0/1-0
 Sample Type: Client
 Inject. Date: 28-Aug-2024 00:04:30 ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0123379-011
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Aug-2024 12:35:24 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 12:35:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.062	2.062	0.000	97	6122	0.0628	
6 Vinyl chloride	62		2.172				ND	7
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.544				ND	
17 1,1-Dichloroethene	96		3.343				ND	
19 Acetone	43	3.428	3.361	0.067	65	8107	1.00	
23 Carbon disulfide	76		3.629				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	3.958	3.952	0.006	26	151642	50.0	
27 Methylene Chloride	84	3.971	3.952	0.019	33	2727	0.0395	
32 Methyl tert-butyl ether	73		4.336				ND	
33 trans-1,2-Dichloroethene	96		4.355				ND	
36 1,1-Dichloroethane	63		5.007				ND	
41 2-Butanone (MEK)	43		5.818				ND	
42 cis-1,2-Dichloroethene	96	5.873	5.848	0.025	79	8549	0.1159	
48 Chlorobromomethane	128		6.183				ND	
50 Chloroform	83	6.348	6.336	0.012	91	14326	0.1166	
\$ 52 Dibromofluoromethane (Surr)	113	6.555	6.555	0.000	93	747483	9.94	
53 1,1,1-Trichloroethane	97		6.567				ND	
56 Carbon tetrachloride	117		6.787				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.013	0.006	47	147043	9.57	
59 Benzene	78	7.055	7.049	0.006	49	6071	0.0215	7M
60 1,2-Dichloroethane	62		7.122				ND	
* 64 Fluorobenzene (IS)	96	7.458	7.464	-0.006	98	3070581	10.0	
68 Trichloroethene	95	7.964	7.951	0.013	92	12635	0.1696	
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	7
80 cis-1,3-Dichloropropene	75		9.201				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.378				ND	
\$ 83 Toluene-d8 (Surr)	98	9.518	9.524	-0.006	94	3025848	10.3	
84 Toluene	92	9.604	9.603	0.001	96	13848	0.0775	
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.183	10.170	0.013	93	5956	0.0717	
109 2-Hexanone	43		10.305				ND	
111 Chlorodibromomethane	129		10.469				ND	
112 Ethylene Dibromide	107		10.585				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	2260698	10.0	
115 Chlorobenzene	112		11.048				ND	
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	7
120 o-Xylene	106		11.591				ND	7
121 Styrene	104		11.609				ND	7
122 Bromoform	173		11.768				ND	7
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	90	1069984	9.75	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	95	1211115	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00013

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 28-Aug-2024 12:35:25

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X40.D

Injection Date: 28-Aug-2024 00:04:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-185105-A-2

Lab Sample ID: 410-185105-2

Worklist Smp#: 11

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

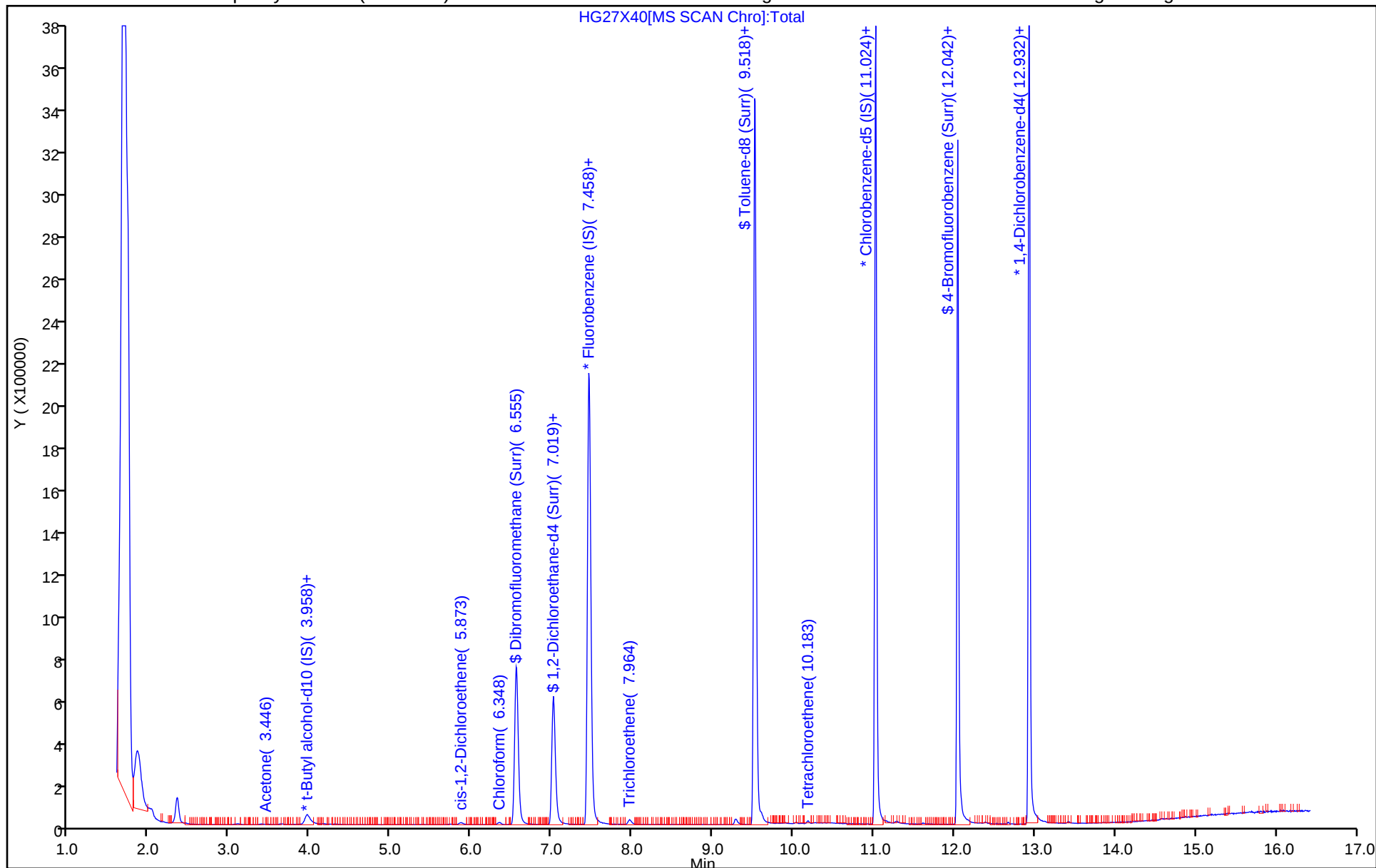
ALS Bottle#: 10

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\20240827-123379.b\HG27X40.D
Lims ID: 410-185105-A-2
Client ID: HD-COD-SW-7-0/1-0
Sample Type: Client
Inject. Date: 28-Aug-2024 00:04:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0123379-011
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Aug-2024 12:35:24 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 12:35:24

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.94	99.41
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.57	95.73
\$ 83 Toluene-d8 (Surr)	10.0	10.3	102.92
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.75	97.46

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X40.D

Injection Date: 28-Aug-2024 00:04:30

Instrument ID: 19094

Lims ID: 410-185105-A-2

Lab Sample ID: 410-185105-2

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

Operator ID: gaw91131

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 25.000 mL

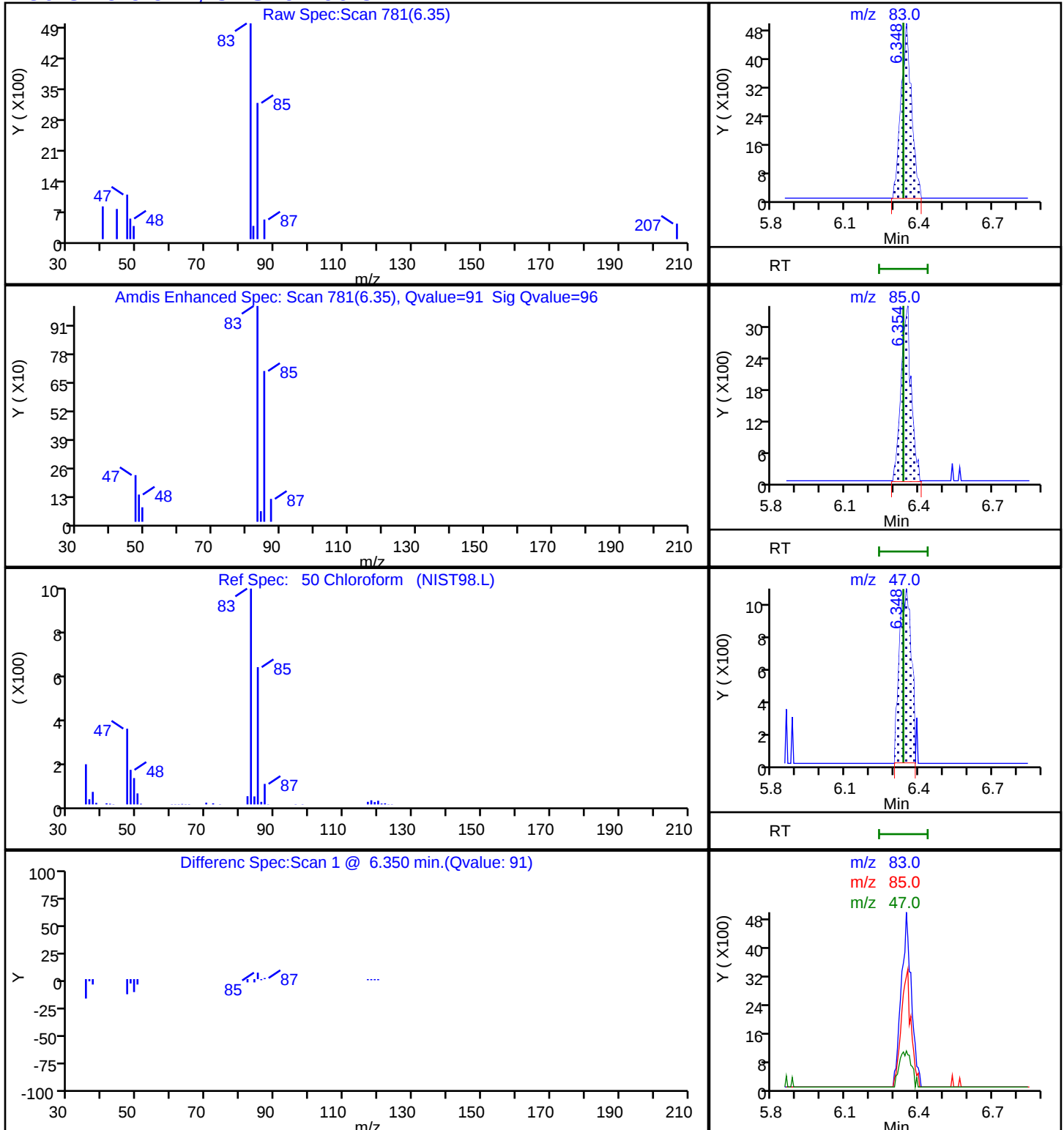
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X40.D

Injection Date: 28-Aug-2024 00:04:30

Instrument ID: 19094

Lims ID: 410-185105-A-2

Lab Sample ID: 410-185105-2

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

Operator ID: gaw91131

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 25.000 mL

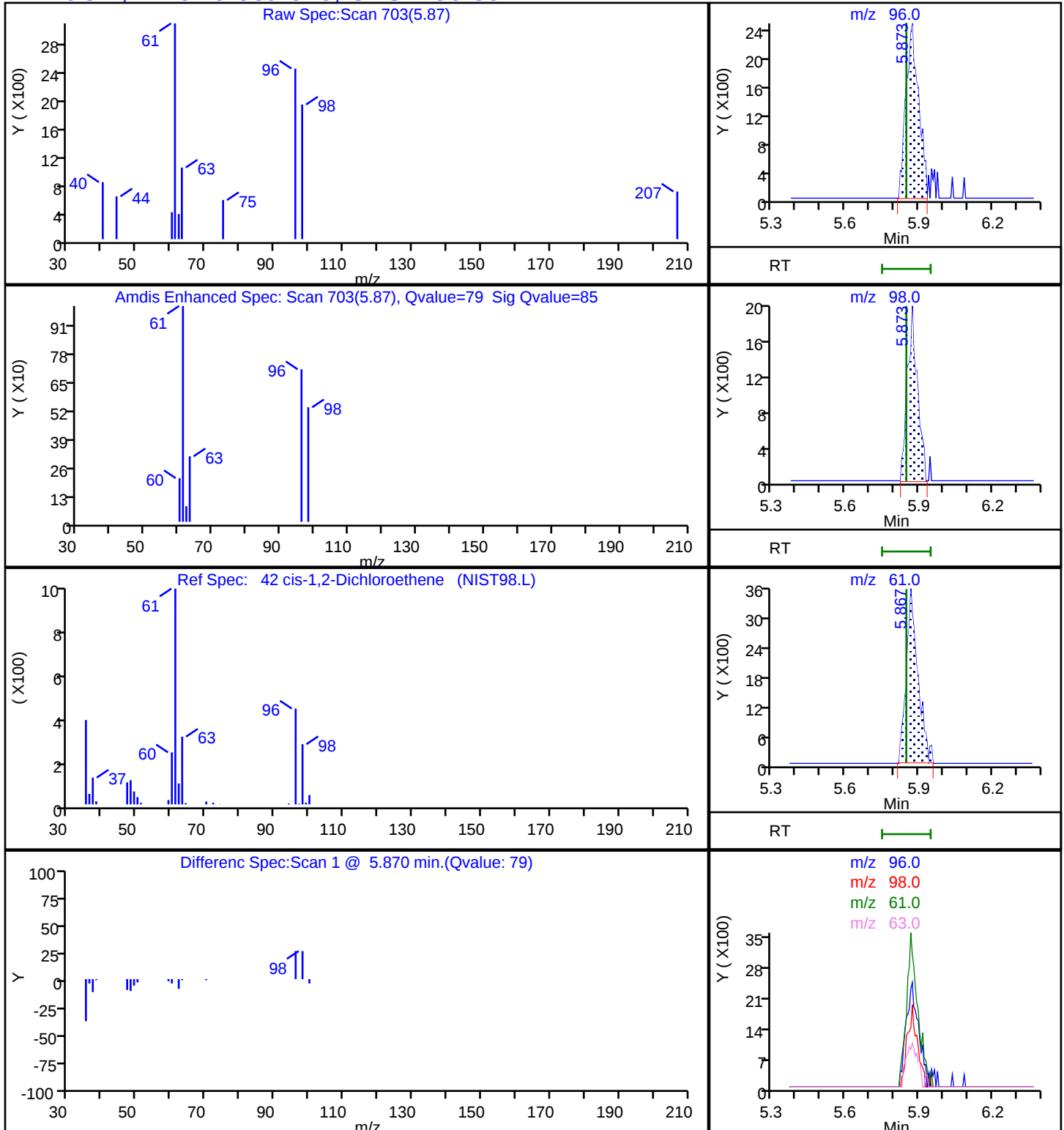
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X40.D

Injection Date: 28-Aug-2024 00:04:30

Instrument ID: 19094

Lims ID: 410-185105-A-2

Lab Sample ID: 410-185105-2

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

Operator ID: gaw91131

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 25.000 mL

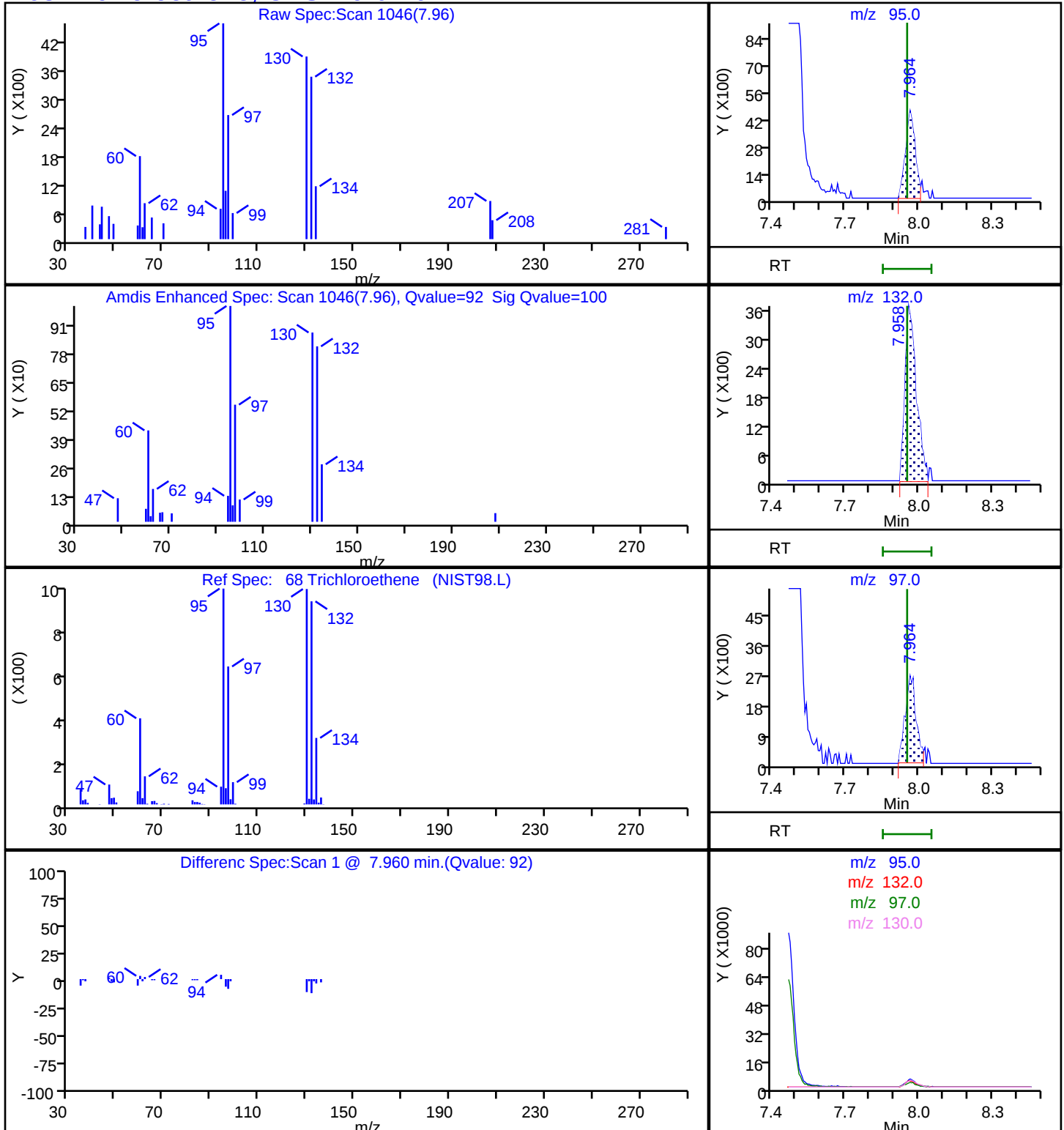
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

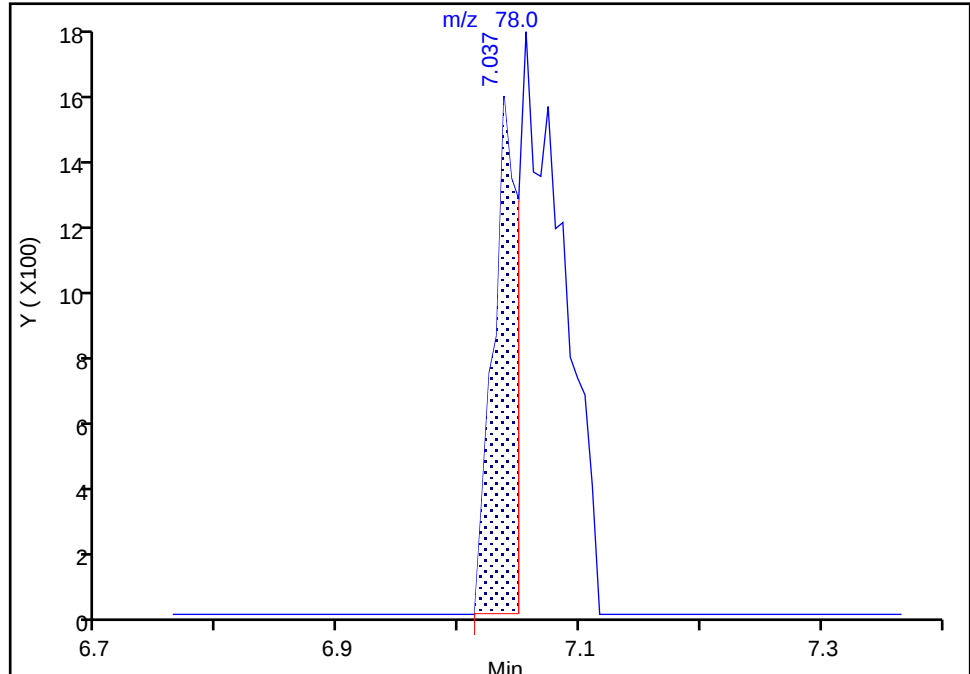
Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X40.D
Injection Date: 28-Aug-2024 00:04:30 Instrument ID: 19094
Lims ID: 410-185105-A-2 Lab Sample ID: 410-185105-2
Client ID: HD-COD-SW-7-0/1-0
Operator ID: gaw91131 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

59 Benzene, CAS: 71-43-2

Signal: 1

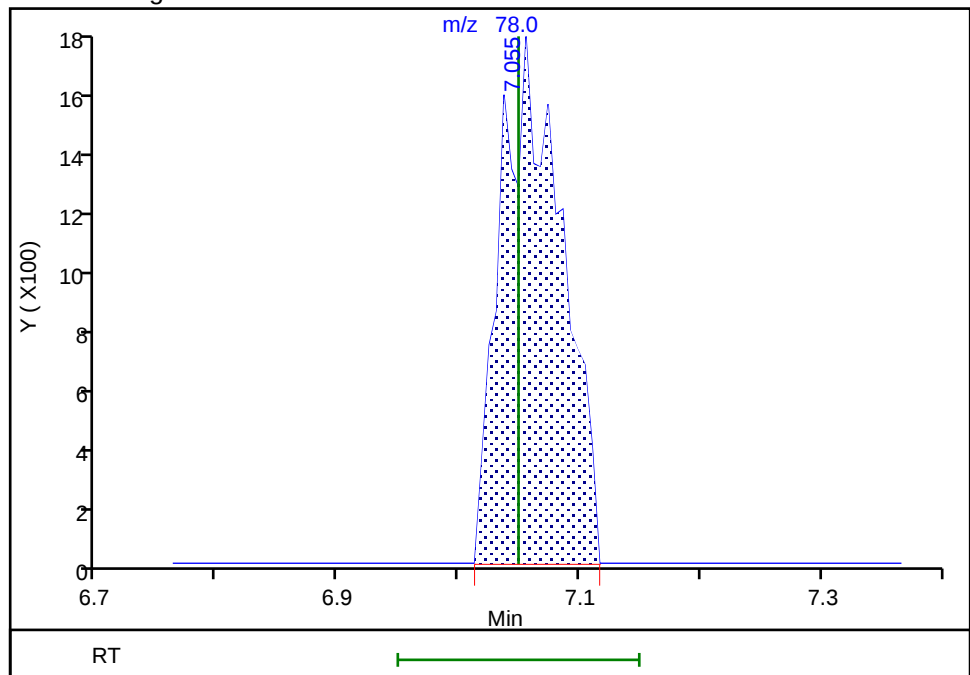
RT: 7.04
Area: 2177
Amount: 0.007698
Amount Units: ug/l

Processing Integration Results



RT: 7.06
Area: 6071
Amount: 0.021467
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 28-Aug-2024 12:35:08 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-3

Matrix: Water

Lab File ID: HG27X41.D

Analysis Method: 8260D

Date Collected: 08/20/2024 09:15

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

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	^c cn	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	0.16	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	1.2		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-8-0/1-0 Lab Sample ID: 410-185105-3

Matrix: Water Lab File ID: HG27X41.D

Analysis Method: 8260D Date Collected: 08/20/2024 09:15

Sample wt/vol: 25 (mL) Date Analyzed: 08/28/2024 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.: 545038 Units: ug/L

Preparation Batch No.: _____ Instrument ID: Agilent GC/MS - HP30

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	0.23	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)	94		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X41.D
 Lims ID: 410-185105-A-3
 Client ID: HD-COD-SW-8-0/1-0
 Sample Type: Client
 Inject. Date: 28-Aug-2024 00:24:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0123379-012
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Aug-2024 12:36:18 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 12:36:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.074	2.062	0.012	76	5863	0.0604	
6 Vinyl chloride	62		2.172				ND	7
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.544				ND	
17 1,1-Dichloroethene	96		3.343				ND	7
19 Acetone	43	3.458	3.361	0.097	70	7132	0.8249	
23 Carbon disulfide	76	3.635	3.629	0.006	99	6905	0.0440	
* 28 t-Butyl alcohol-d10 (IS)	65	3.952	3.952	0.000	27	162431	50.0	
27 Methylene Chloride	84	3.970	3.952	0.018	33	2649	0.0386	
32 Methyl tert-butyl ether	73		4.336				ND	
33 trans-1,2-Dichloroethene	96		4.355				ND	
36 1,1-Dichloroethane	63		5.007				ND	7
41 2-Butanone (MEK)	43		5.818				ND	
42 cis-1,2-Dichloroethene	96	5.866	5.848	0.018	82	11763	0.1603	
48 Chlorobromomethane	128		6.183				ND	
50 Chloroform	83	6.354	6.336	0.018	90	10302	0.0843	
\$ 52 Dibromofluoromethane (Surr)	113	6.555	6.555	0.000	94	731219	9.78	
53 1,1,1-Trichloroethane	97		6.567				ND	U
56 Carbon tetrachloride	117		6.787				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.013	0.006	47	143466	9.40	
59 Benzene	78		7.049				ND	7
60 1,2-Dichloroethane	62		7.122				ND	
* 64 Fluorobenzene (IS)	96	7.464	7.464	0.000	99	3052604	10.0	
68 Trichloroethene	95	7.964	7.951	0.013	96	17182	0.2320	
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	7
80 cis-1,3-Dichloropropene	75		9.201				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.378				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.518	9.524	-0.006	94	3000419	10.4	
84 Toluene	92	9.603	9.603	0.000	98	14514	0.0830	
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.177	10.170	0.006	97	97381	1.20	
109 2-Hexanone	43		10.305				ND	
111 Chlorodibromomethane	129		10.469				ND	
112 Ethylene Dibromide	107		10.585				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	2212853	10.0	
115 Chlorobenzene	112		11.048				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	7
120 o-Xylene	106		11.591				ND	7
121 Styrene	104		11.609				ND	7
122 Bromoform	173		11.768				ND	7
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	90	1064204	9.90	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	95	1173152	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_LLcentISS_00013

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 28-Aug-2024 12:36:19

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X41.D

Injection Date: 28-Aug-2024 00:24:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-185105-A-3

Lab Sample ID: 410-185105-3

Worklist Smp#: 12

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

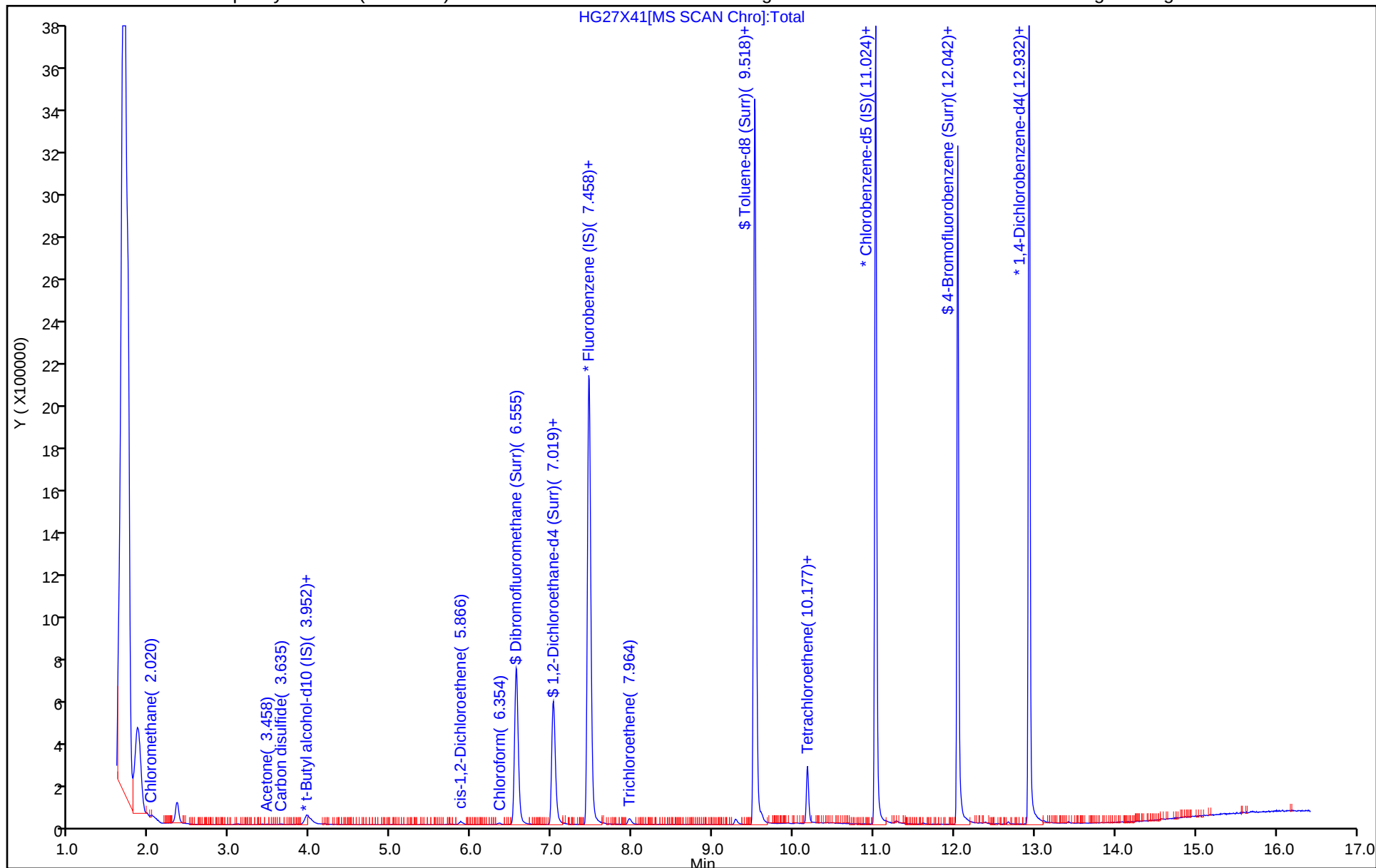
ALS Bottle#: 11

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\20240827-123379.b\HG27X41.D
Lims ID: 410-185105-A-3
Client ID: HD-COD-SW-8-0/1-0
Sample Type: Client
Inject. Date: 28-Aug-2024 00:24:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0123379-012
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Aug-2024 12:36:18 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 12:36:18

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.78	97.82
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.40	93.95
\$ 83 Toluene-d8 (Surr)	10.0	10.4	104.26
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.90	99.03

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X41.D

Injection Date: 28-Aug-2024 00:24:30

Instrument ID: 19094

Lims ID: 410-185105-A-3

Lab Sample ID: 410-185105-3

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

Operator ID: gaw91131

ALS Bottle#: 11

Worklist Smp#: 12

Purge Vol: 25.000 mL

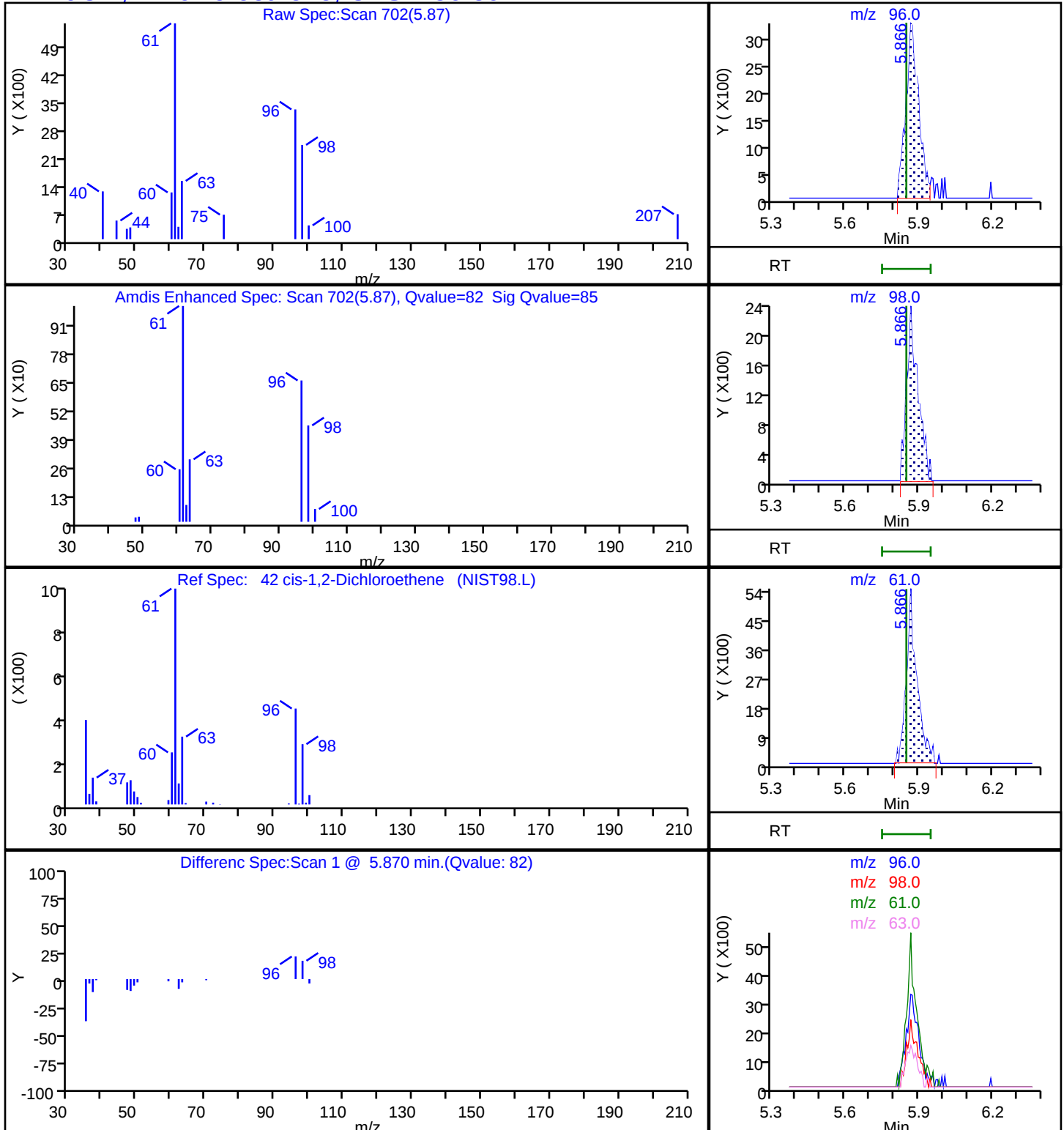
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X41.D

Injection Date: 28-Aug-2024 00:24:30

Instrument ID: 19094

Lims ID: 410-185105-A-3

Lab Sample ID: 410-185105-3

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

Operator ID: gaw91131

ALS Bottle#: 11

Worklist Smp#: 12

Purge Vol: 25.000 mL

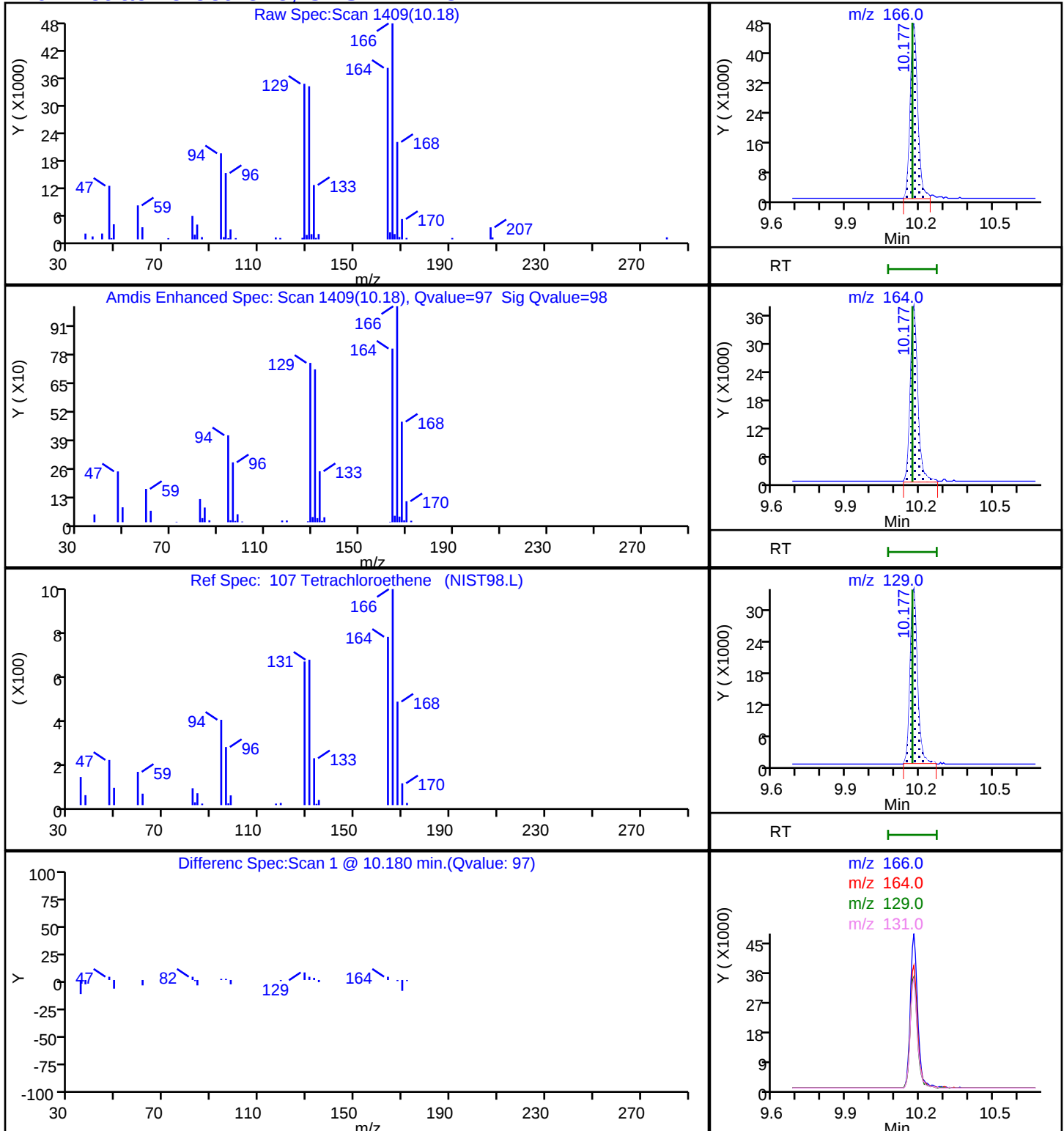
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

107 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X41.D

Injection Date: 28-Aug-2024 00:24:30

Instrument ID: 19094

Lims ID: 410-185105-A-3

Lab Sample ID: 410-185105-3

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

Operator ID: gaw91131

ALS Bottle#: 11

Worklist Smp#: 12

Purge Vol: 25.000 mL

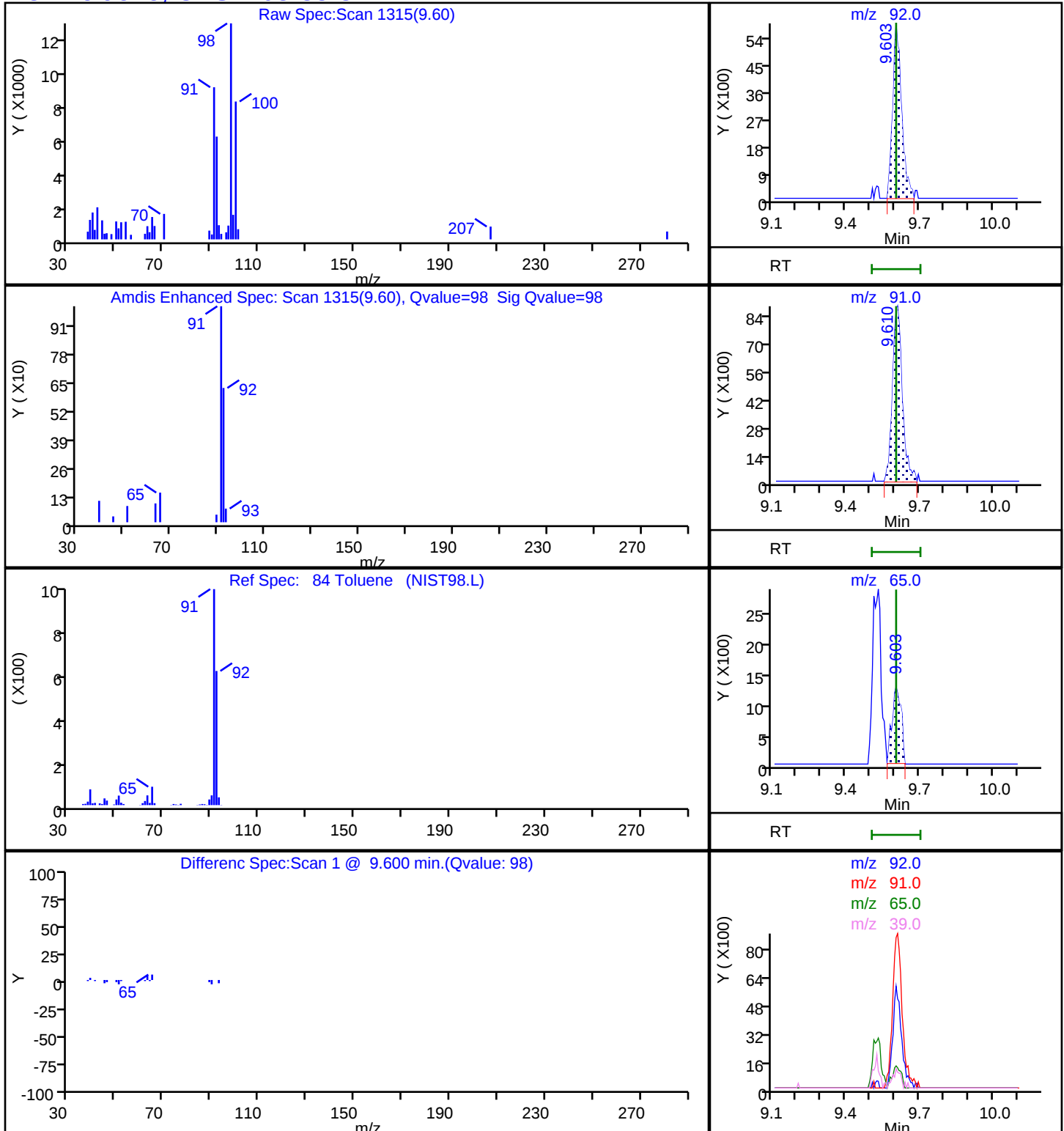
Dil. Factor: 1.0000

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\20240827-123379.b\HG27X41.D

Injection Date: 28-Aug-2024 00:24:30

Instrument ID: 19094

Lims ID: 410-185105-A-3

Lab Sample ID: 410-185105-3

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

Operator ID: gaw91131

ALS Bottle#: 11

Worklist Smp#: 12

Purge Vol: 25.000 mL

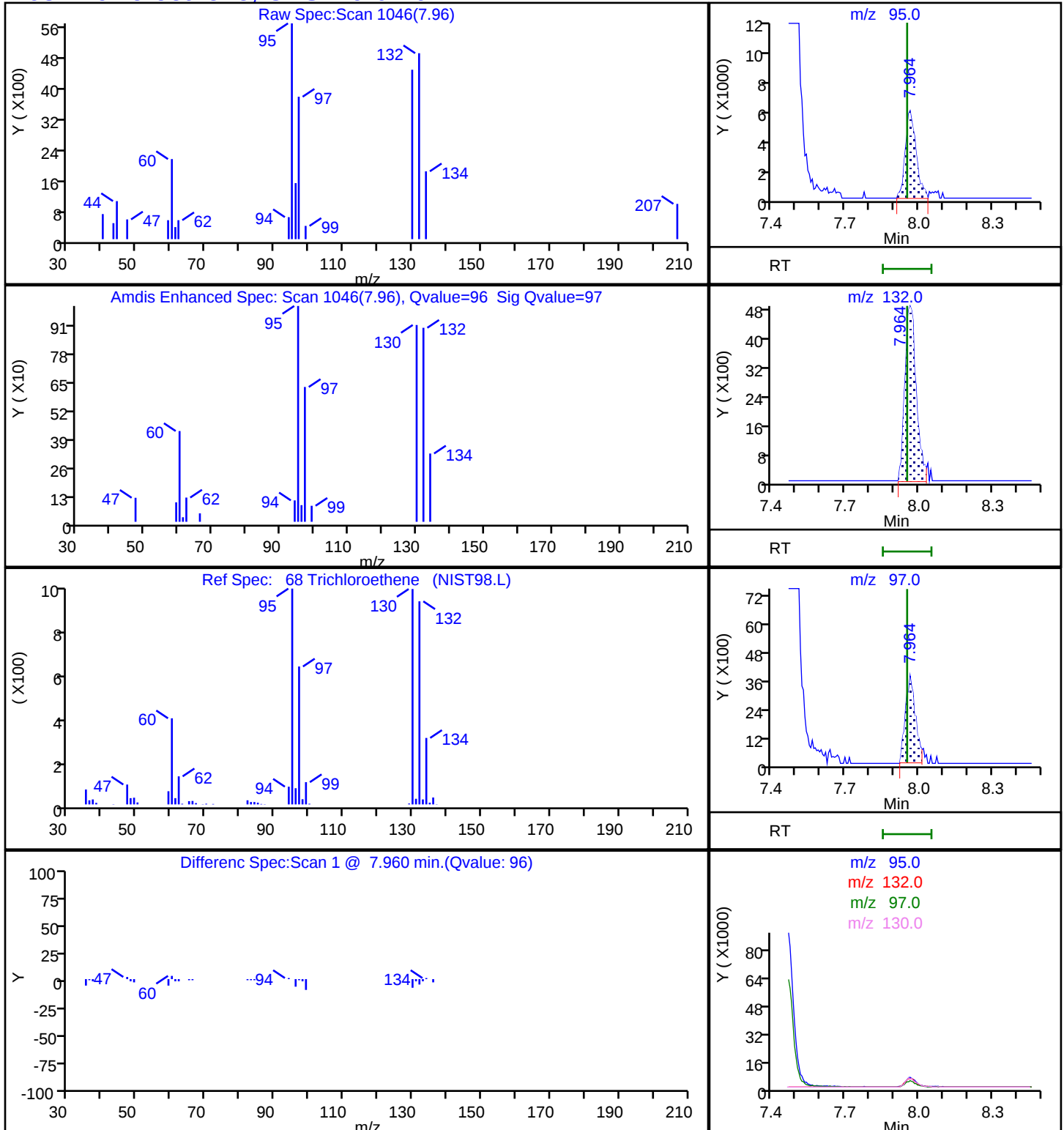
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

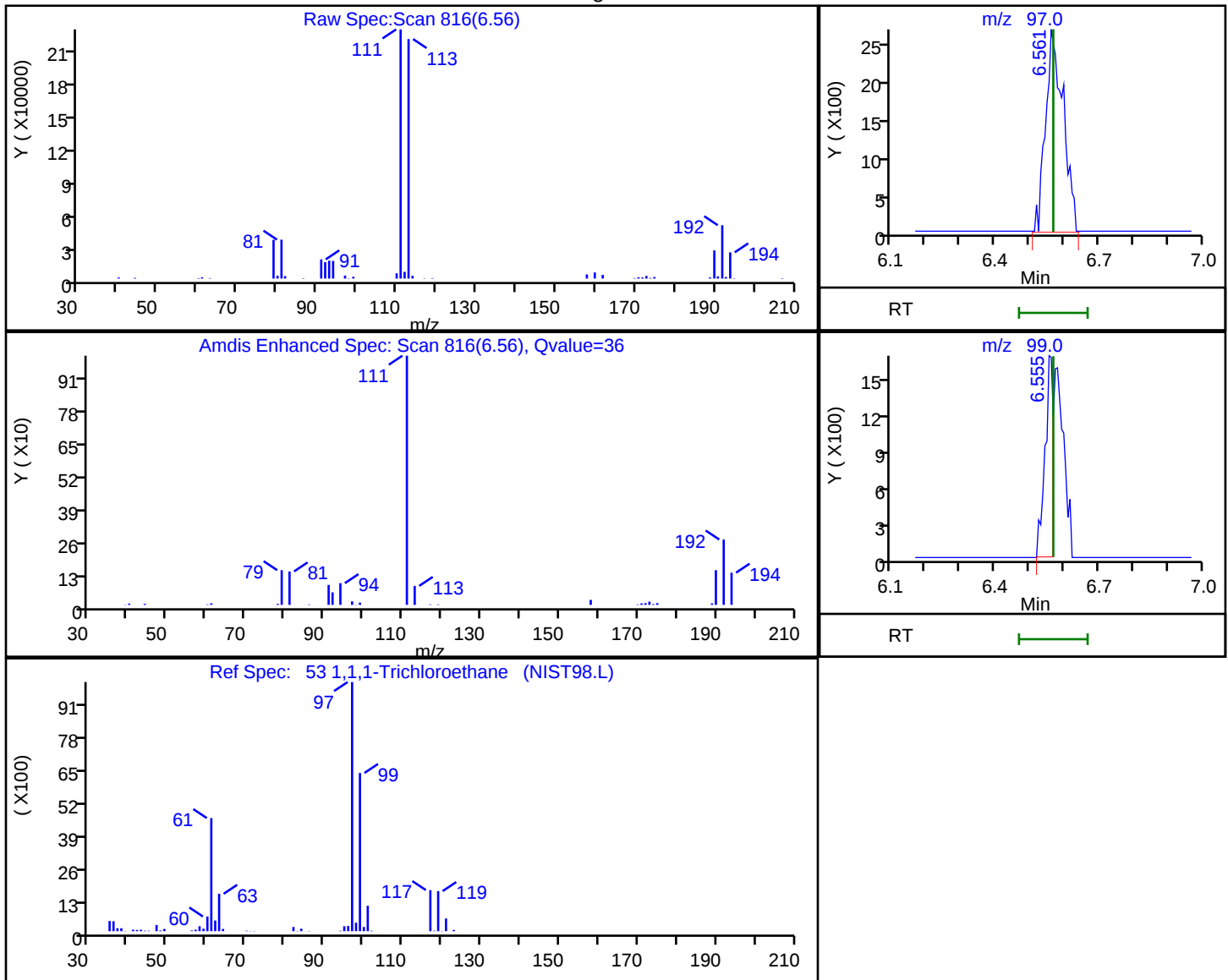
68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X41.D
Injection Date: 28-Aug-2024 00:24:30 Instrument ID: 19094
Lims ID: 410-185105-A-3 Lab Sample ID: 410-185105-3
Client ID: HD-COD-SW-8-0/1-0
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

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

Processing Results



RT	Mass	Response	Amount
6.56	97.00	9493	0.091100
6.56	99.00	2651	

Reviewer: N9NA, 28-Aug-2024 12:36:03 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-4

Matrix: Water

Lab File ID: HG27X42.D

Analysis Method: 8260D

Date Collected: 08/20/2024 12:53

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

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	2.5	J	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	^c cn	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	0.26	J	0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-9-0/1-0 Lab Sample ID: 410-185105-4

Matrix: Water Lab File ID: HG27X42.D

Analysis Method: 8260D Date Collected: 08/20/2024 12:53

Sample wt/vol: 25 (mL) Date Analyzed: 08/28/2024 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.: 545038 Units: ug/L

Preparation Batch No.: _____ Instrument ID: Agilent GC/MS - HP30

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	0.084	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)	95		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X42.D
 Lims ID: 410-185105-A-4
 Client ID: HD-COD-SW-9-0/1-0
 Sample Type: Client
 Inject. Date: 28-Aug-2024 00:45:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0123379-013
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Aug-2024 12:37:34 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 12:37:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.062				ND	7
6 Vinyl chloride	62		2.172				ND	7
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.544				ND	
17 1,1-Dichloroethene	96		3.343				ND	
19 Acetone	43	3.397	3.361	0.036	97	21487	2.46	
23 Carbon disulfide	76	3.629	3.629	0.000	95	9623	0.0613	
* 28 t-Butyl alcohol-d10 (IS)	65	3.946	3.952	-0.006	26	164268	50.0	
27 Methylene Chloride	84	3.952	3.952	0.000	32	3146	0.0459	
32 Methyl tert-butyl ether	73		4.336				ND	
33 trans-1,2-Dichloroethene	96		4.355				ND	
36 1,1-Dichloroethane	63		5.007				ND	7
41 2-Butanone (MEK)	43		5.818				ND	
42 cis-1,2-Dichloroethene	96	5.860	5.848	0.012	79	4586	0.0625	M
48 Chlorobromomethane	128		6.183				ND	
50 Chloroform	83	6.342	6.336	0.006	93	10269	0.0841	
\$ 52 Dibromofluoromethane (Surr)	113	6.549	6.555	-0.006	94	728125	9.74	
53 1,1,1-Trichloroethane	97		6.567				ND	7
56 Carbon tetrachloride	117		6.787				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.012	7.013	-0.001	47	145320	9.52	
59 Benzene	78		7.049				ND	7
60 1,2-Dichloroethane	62		7.122				ND	
* 64 Fluorobenzene (IS)	96	7.457	7.464	-0.007	99	3051160	10.0	
68 Trichloroethene	95	7.963	7.951	0.012	92	6195	0.0837	M
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	7
80 cis-1,3-Dichloropropene	75		9.201				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.378				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.518	9.524	-0.006	94	2991936	10.4	
84 Toluene	92	9.610	9.603	0.007	98	13854	0.0789	
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.176	10.170	0.006	96	21295	0.2610	
109 2-Hexanone	43		10.305				ND	
111 Chlorodibromomethane	129		10.469				ND	
112 Ethylene Dibromide	107		10.585				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.018	11.024	-0.006	87	2221339	10.0	
115 Chlorobenzene	112		11.048				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	7
120 o-Xylene	106		11.591				ND	7
121 Styrene	104		11.609				ND	7
122 Bromoform	173		11.768				ND	7
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	90	1073006	9.95	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	95	1180260	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00013

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 28-Aug-2024 12:37:35

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X42.D

Injection Date: 28-Aug-2024 00:45:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-185105-A-4

Lab Sample ID: 410-185105-4

Worklist Smp#: 13

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

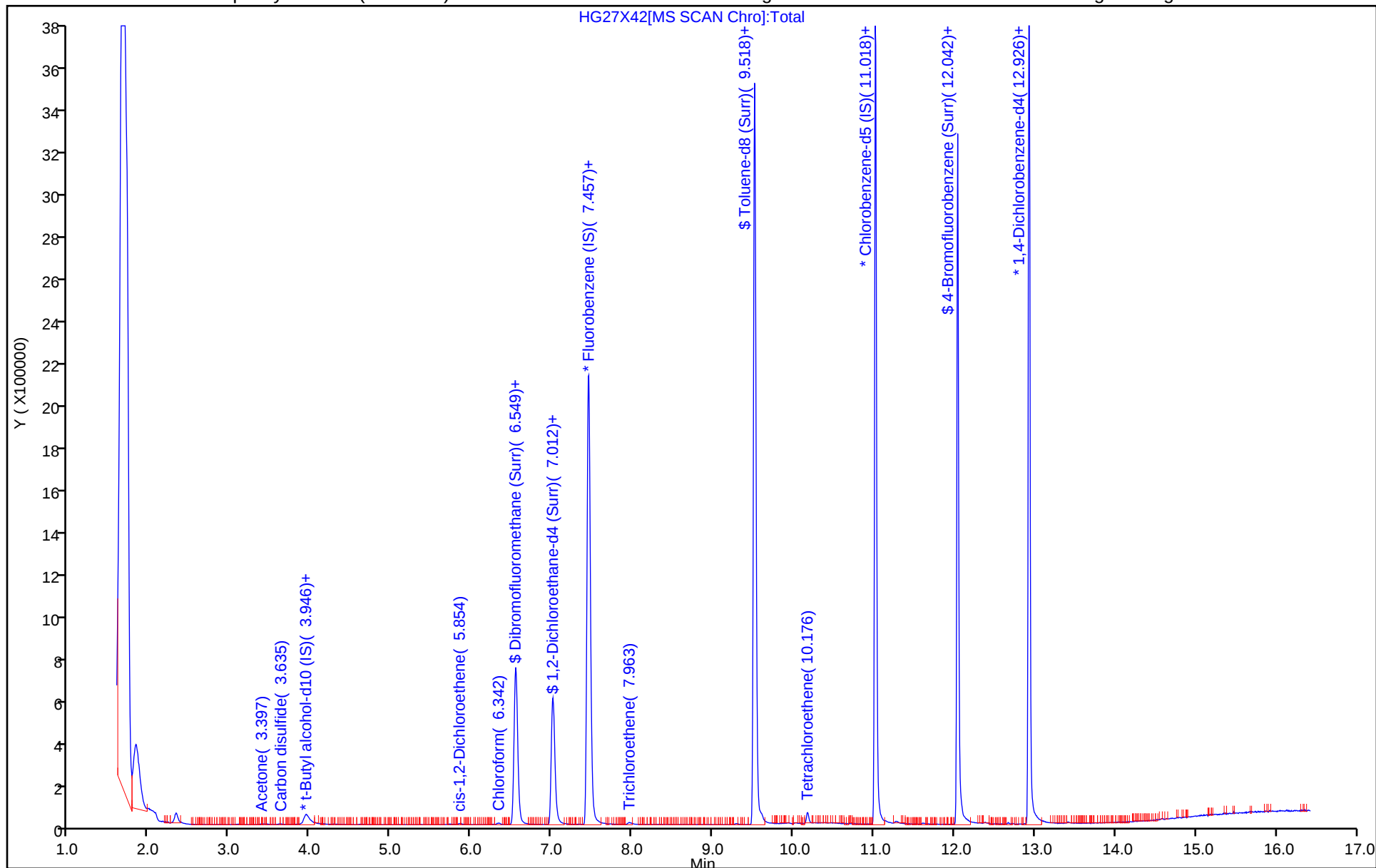
ALS Bottle#: 12

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\20240827-123379.b\HG27X42.D
Lims ID: 410-185105-A-4
Client ID: HD-COD-SW-9-0/1-0
Sample Type: Client
Inject. Date: 28-Aug-2024 00:45:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0123379-013
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Aug-2024 12:37:34 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 12:37:34

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.74	97.45
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.52	95.21
\$ 83 Toluene-d8 (Surr)	10.0	10.4	103.57
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.95	99.46

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X42.D

Injection Date: 28-Aug-2024 00:45:30

Instrument ID: 19094

Lims ID: 410-185105-A-4

Lab Sample ID: 410-185105-4

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

Operator ID: gaw91131

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 25.000 mL

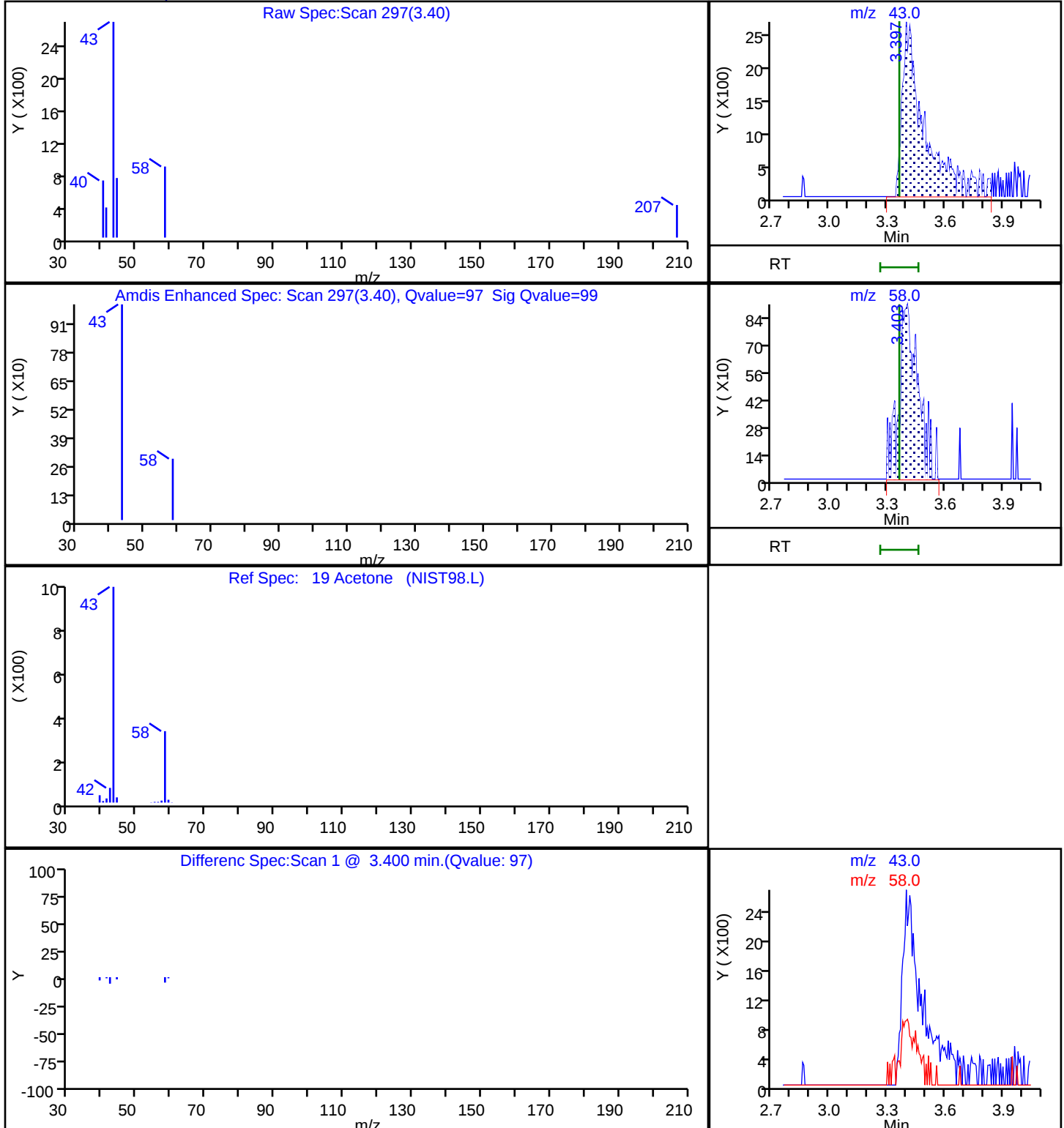
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

19 Acetone, CAS: 67-64-1

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X42.D

Injection Date: 28-Aug-2024 00:45:30

Instrument ID: 19094

Lims ID: 410-185105-A-4

Lab Sample ID: 410-185105-4

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

Operator ID: gaw91131

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 25.000 mL

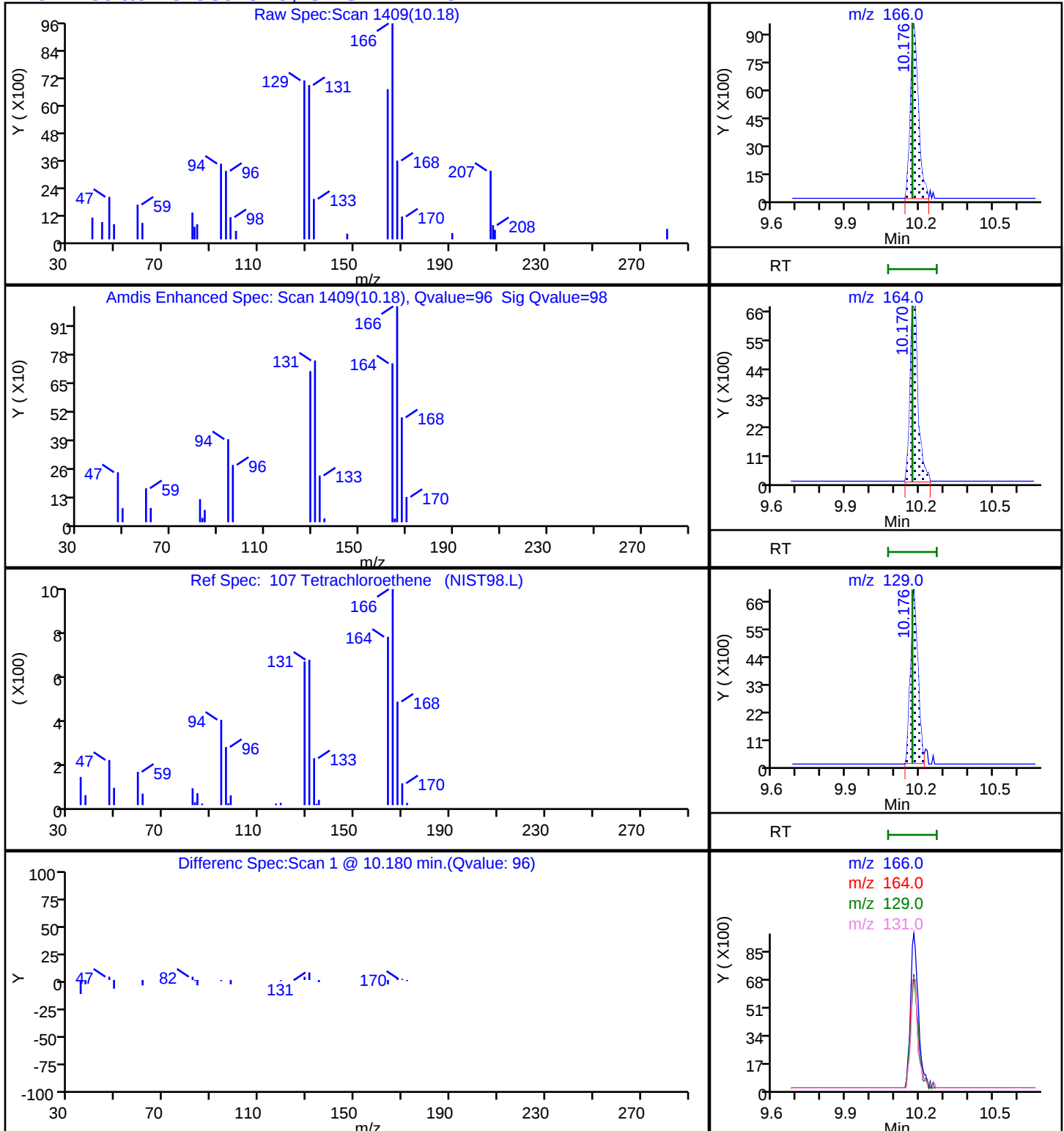
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

107 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X42.D

Injection Date: 28-Aug-2024 00:45:30

Instrument ID: 19094

Lims ID: 410-185105-A-4

Lab Sample ID: 410-185105-4

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

Operator ID: gaw91131

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 25.000 mL

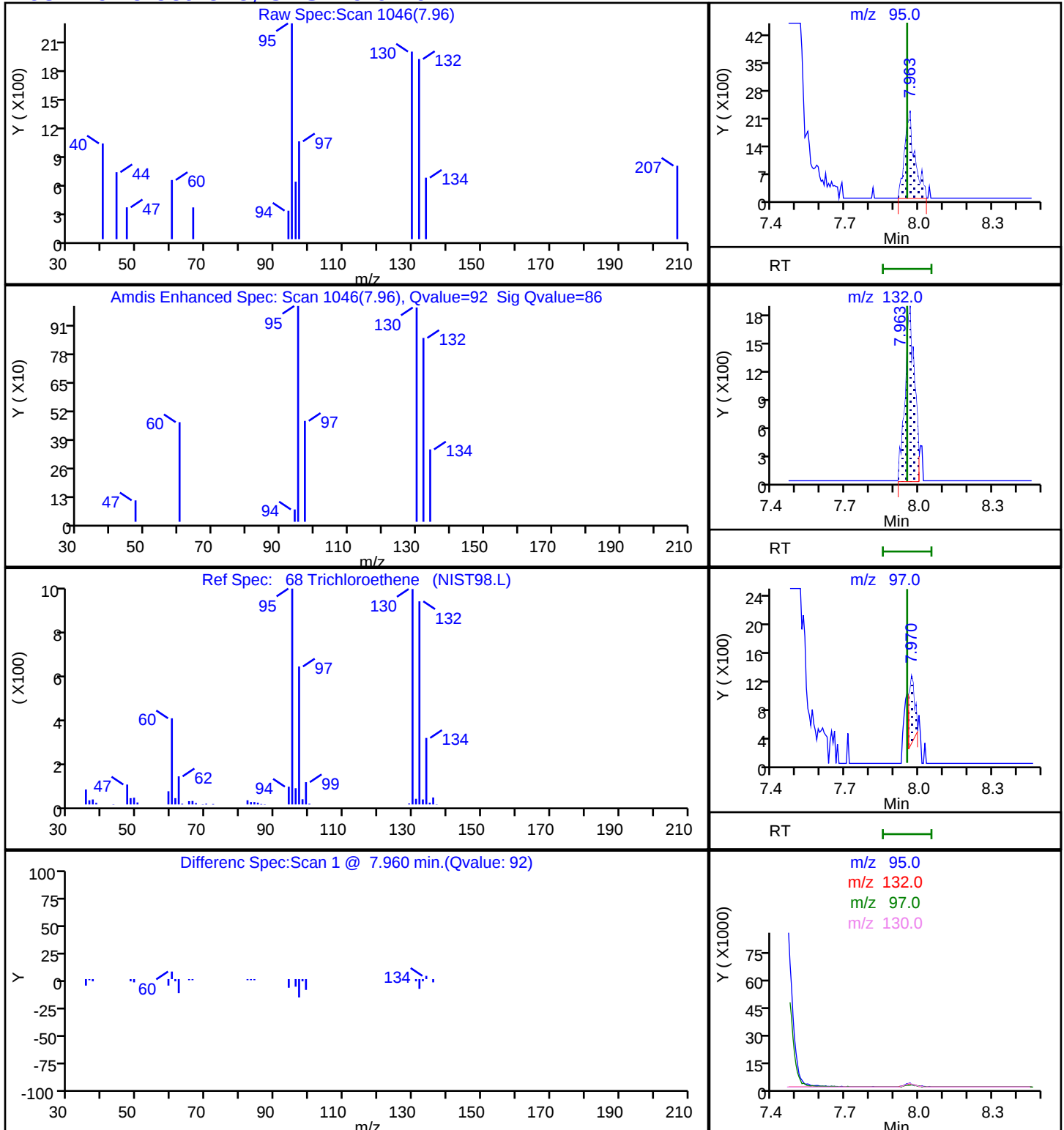
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

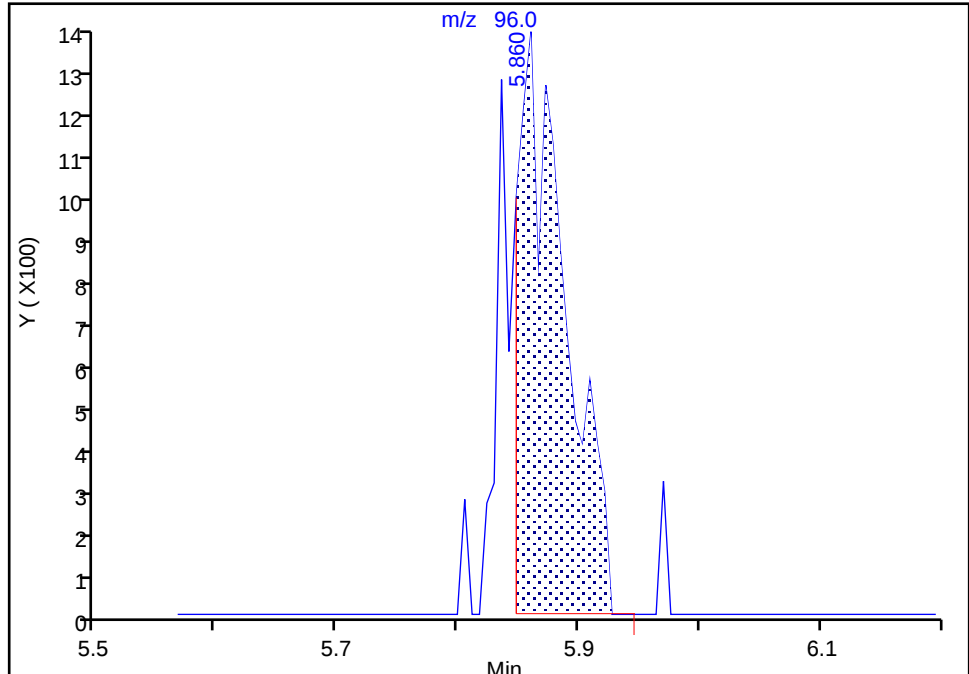
Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X42.D
Injection Date: 28-Aug-2024 00:45:30 Instrument ID: 19094
Lims ID: 410-185105-A-4 Lab Sample ID: 410-185105-4
Client ID: HD-COD-SW-9-0/1-0
Operator ID: gaw91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

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

Signal: 1

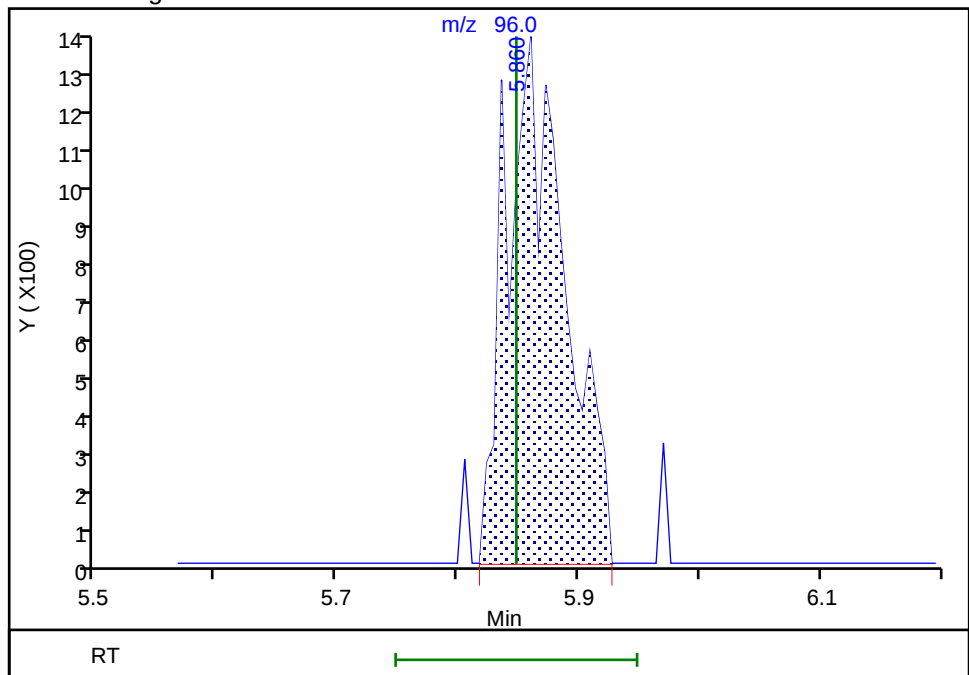
RT: 5.86
Area: 3703
Amount: 0.050501
Amount Units: ug/l

Processing Integration Results



RT: 5.86
Area: 4586
Amount: 0.062543
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 28-Aug-2024 12:36:59 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

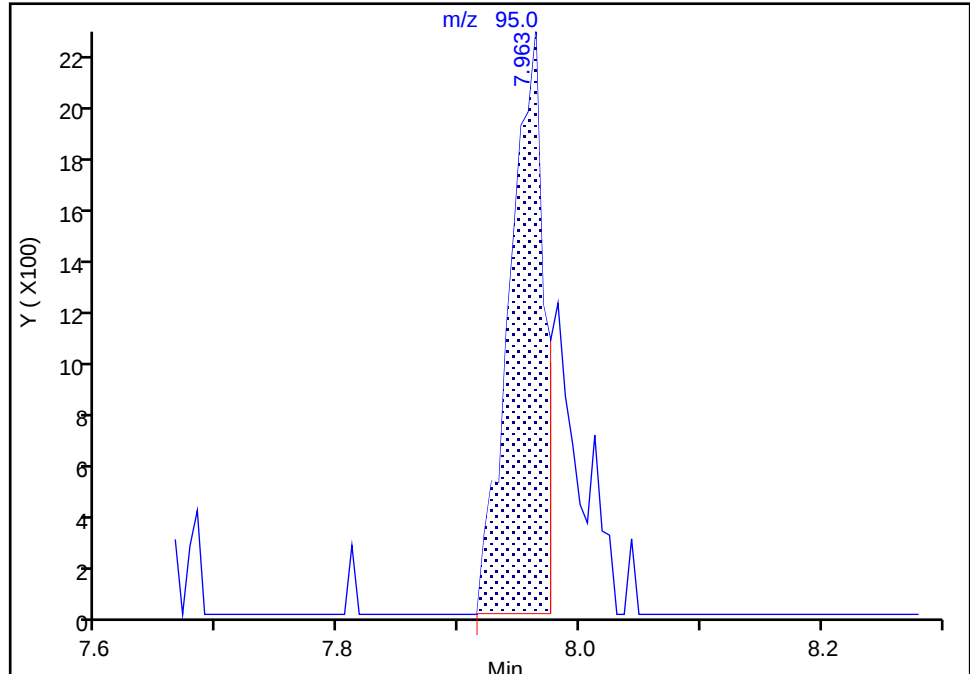
Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X42.D
Injection Date: 28-Aug-2024 00:45:30 Instrument ID: 19094
Lims ID: 410-185105-A-4 Lab Sample ID: 410-185105-4
Client ID: HD-COD-SW-9-0/1-0
Operator ID: gaw91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

68 Trichloroethene, CAS: 79-01-6

Signal: 1

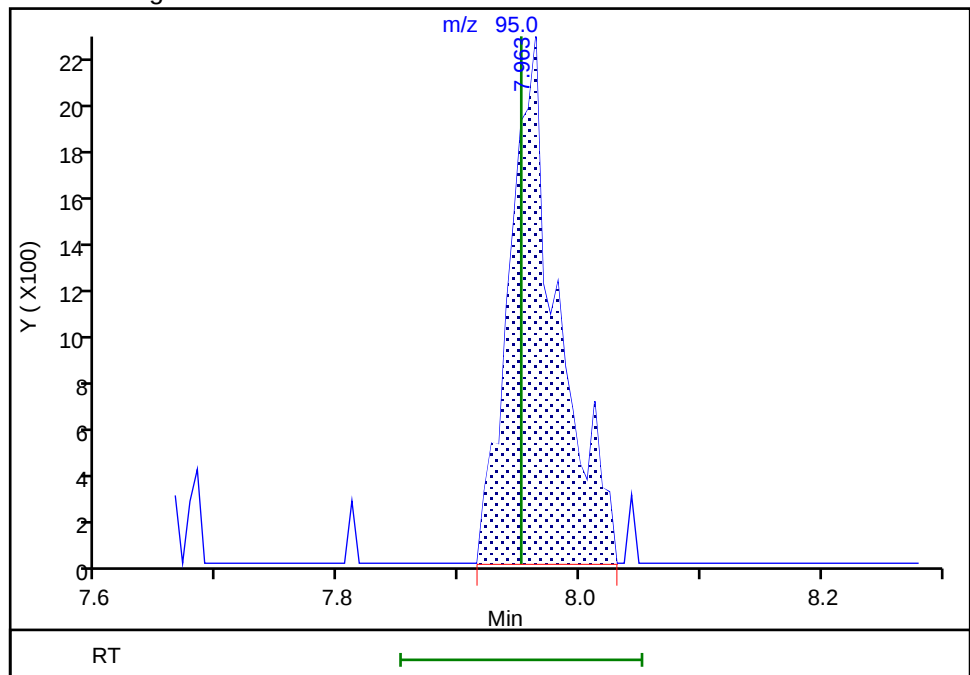
RT: 7.96
Area: 4450
Amount: 0.060123
Amount Units: ug/l

Processing Integration Results



RT: 7.96
Area: 6195
Amount: 0.083699
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 28-Aug-2024 12:37:18 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-5

Matrix: Water

Lab File ID: HG27X43.D

Analysis Method: 8260D

Date Collected: 08/20/2024 09:38

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 01:05

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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

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	^c cn	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	0.16	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	1.4		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-5

Matrix: Water

Lab File ID: HG27X43.D

Analysis Method: 8260D

Date Collected: 08/20/2024 09:38

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 01:05

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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	0.088	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)	97		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		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\20240827-123379.b\HG27X43.D
 Lims ID: 410-185105-A-5
 Client ID: HD-COD-SW-13-0/1-0
 Sample Type: Client
 Inject. Date: 28-Aug-2024 01:05:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0123379-014
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Aug-2024 12:38:58 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 12:38:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.056	2.062	-0.006	37	5212	0.0548	
6 Vinyl chloride	62		2.172				ND	7
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.544				ND	
17 1,1-Dichloroethene	96		3.343				ND	7
19 Acetone	43		3.361				ND	U
23 Carbon disulfide	76		3.629				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	3.952	3.952	0.000	26	151721	50.0	
27 Methylene Chloride	84	3.940	3.952	-0.012	33	2783	0.0413	
32 Methyl tert-butyl ether	73		4.336				ND	
33 trans-1,2-Dichloroethene	96		4.355				ND	
36 1,1-Dichloroethane	63		5.007				ND	7
41 2-Butanone (MEK)	43		5.818				ND	
42 cis-1,2-Dichloroethene	96	5.854	5.848	0.006	81	11817	0.1642	
48 Chlorobromomethane	128		6.183				ND	
50 Chloroform	83	6.330	6.336	-0.006	92	9748	0.0813	
\$ 52 Dibromofluoromethane (Surr)	113	6.549	6.555	-0.006	93	725317	9.89	
53 1,1,1-Trichloroethane	97		6.567				ND	U
56 Carbon tetrachloride	117		6.787				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.013	0.000	47	144714	9.66	
59 Benzene	78		7.049				ND	7
60 1,2-Dichloroethane	62		7.122				ND	
* 64 Fluorobenzene (IS)	96	7.458	7.464	-0.006	99	2994622	10.0	
68 Trichloroethene	95	7.951	7.951	0.000	97	15427	0.2124	M
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	
80 cis-1,3-Dichloropropene	75		9.201				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.378				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.518	9.524	-0.006	94	2955447	10.3	
84 Toluene	92	9.610	9.603	0.007	98	15368	0.0878	
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.177	10.170	0.007	98	117060	1.44	
109 2-Hexanone	43		10.305				ND	
111 Chlorodibromomethane	129		10.469				ND	
112 Ethylene Dibromide	107		10.585				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	2214923	10.0	
115 Chlorobenzene	112		11.048				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	7
120 o-Xylene	106		11.591				ND	7
121 Styrene	104		11.609				ND	
122 Bromoform	173		11.768				ND	7
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	90	1068641	9.93	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	95	1175007	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_LLcentISS_00013

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 28-Aug-2024 12:38:59

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X43.D

Injection Date: 28-Aug-2024 01:05:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-185105-A-5

Lab Sample ID: 410-185105-5

Worklist Smp#: 14

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

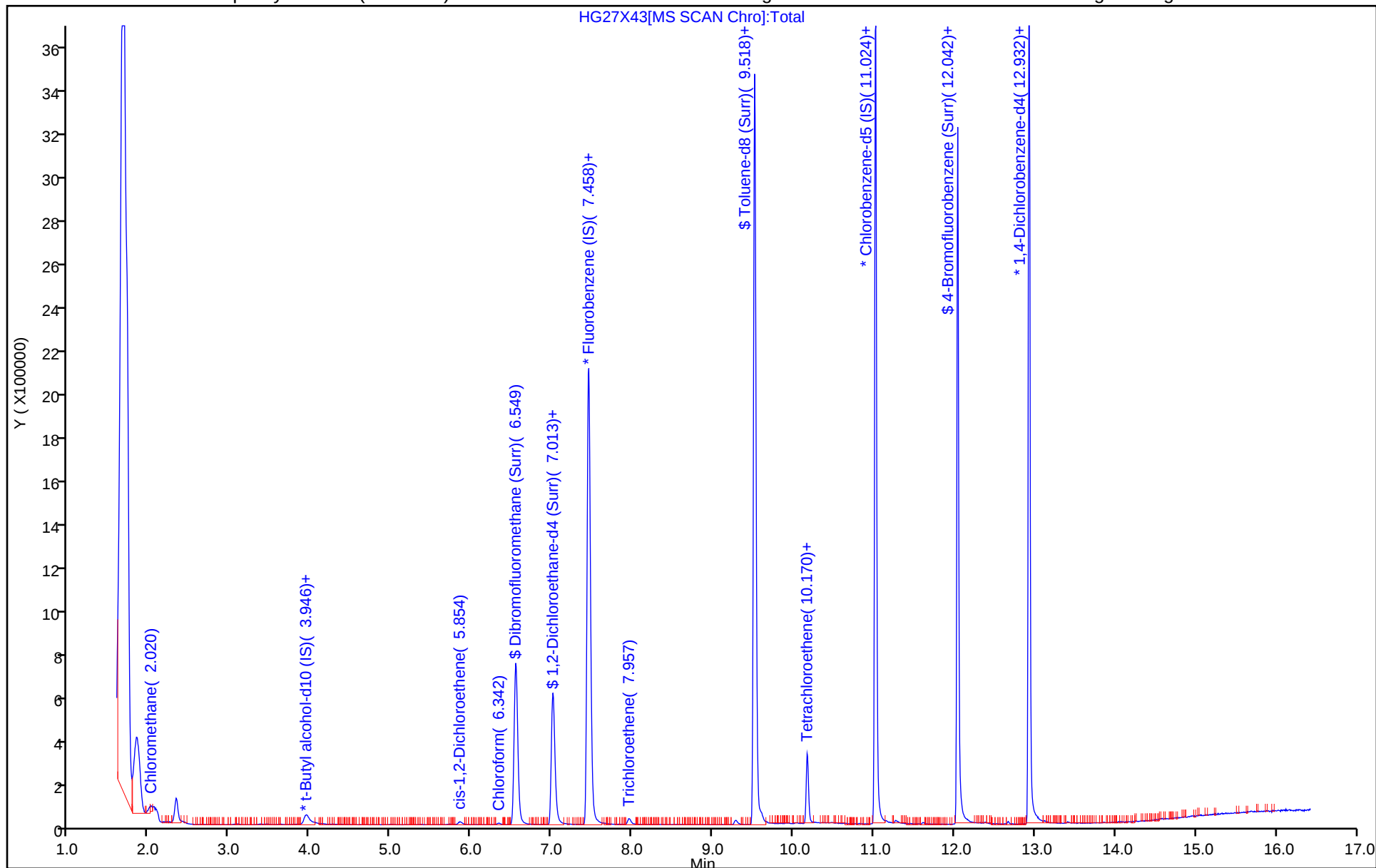
ALS Bottle#: 13

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\20240827-123379.b\HG27X43.D
Lims ID: 410-185105-A-5
Client ID: HD-COD-SW-13-0/1-0
Sample Type: Client
Inject. Date: 28-Aug-2024 01:05:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0123379-014
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Aug-2024 12:38:58 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 12:38:58

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.89	98.91
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.66	96.61
\$ 83 Toluene-d8 (Surr)	10.0	10.3	102.60
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.93	99.35

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X43.D

Injection Date: 28-Aug-2024 01:05:30

Instrument ID: 19094

Lims ID: 410-185105-A-5

Lab Sample ID: 410-185105-5

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

Operator ID: gaw91131

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

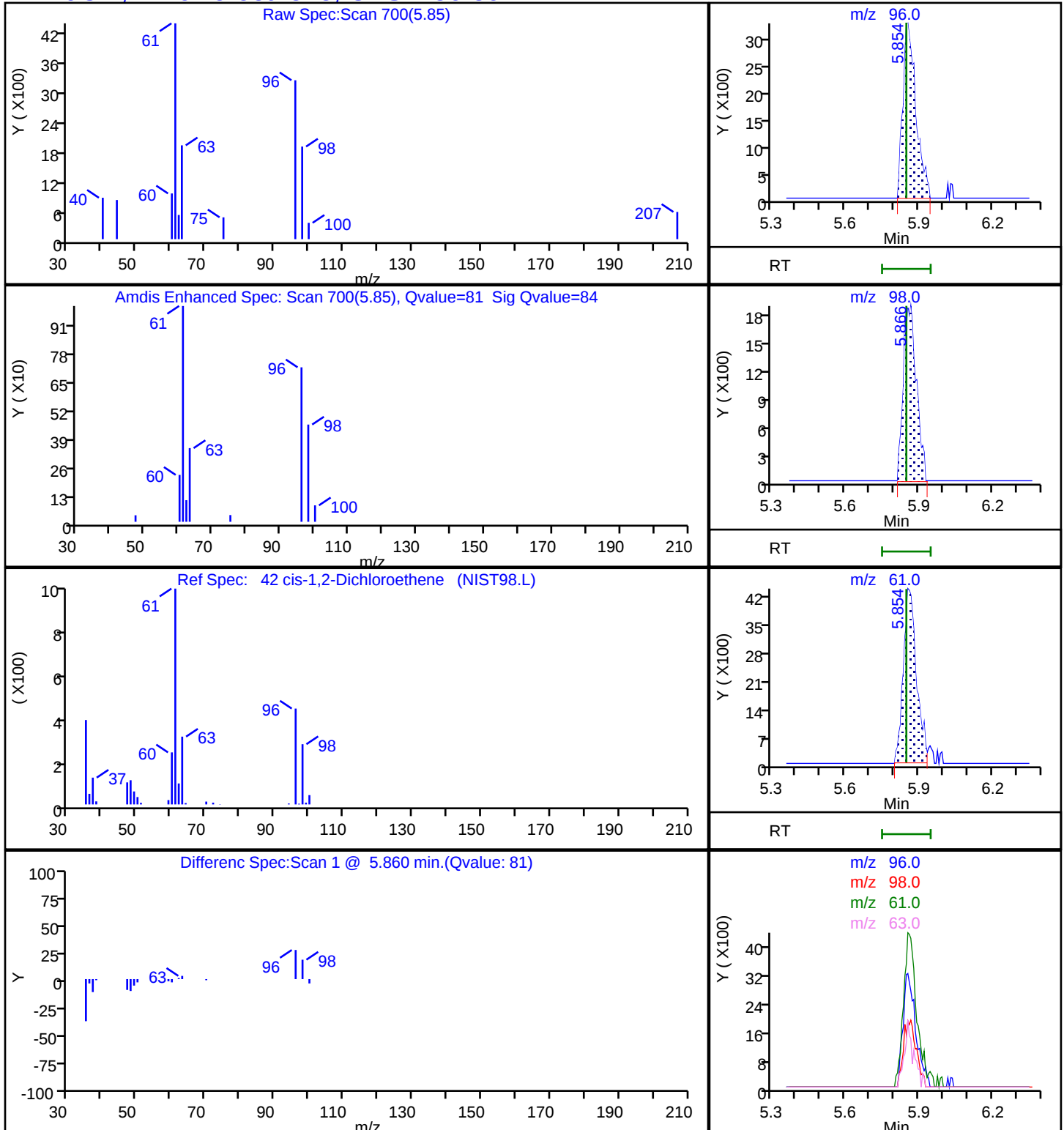
Dil. Factor: 1.0000

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\20240827-123379.b\HG27X43.D

Injection Date: 28-Aug-2024 01:05:30

Instrument ID: 19094

Lims ID: 410-185105-A-5

Lab Sample ID: 410-185105-5

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

Operator ID: gaw91131

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

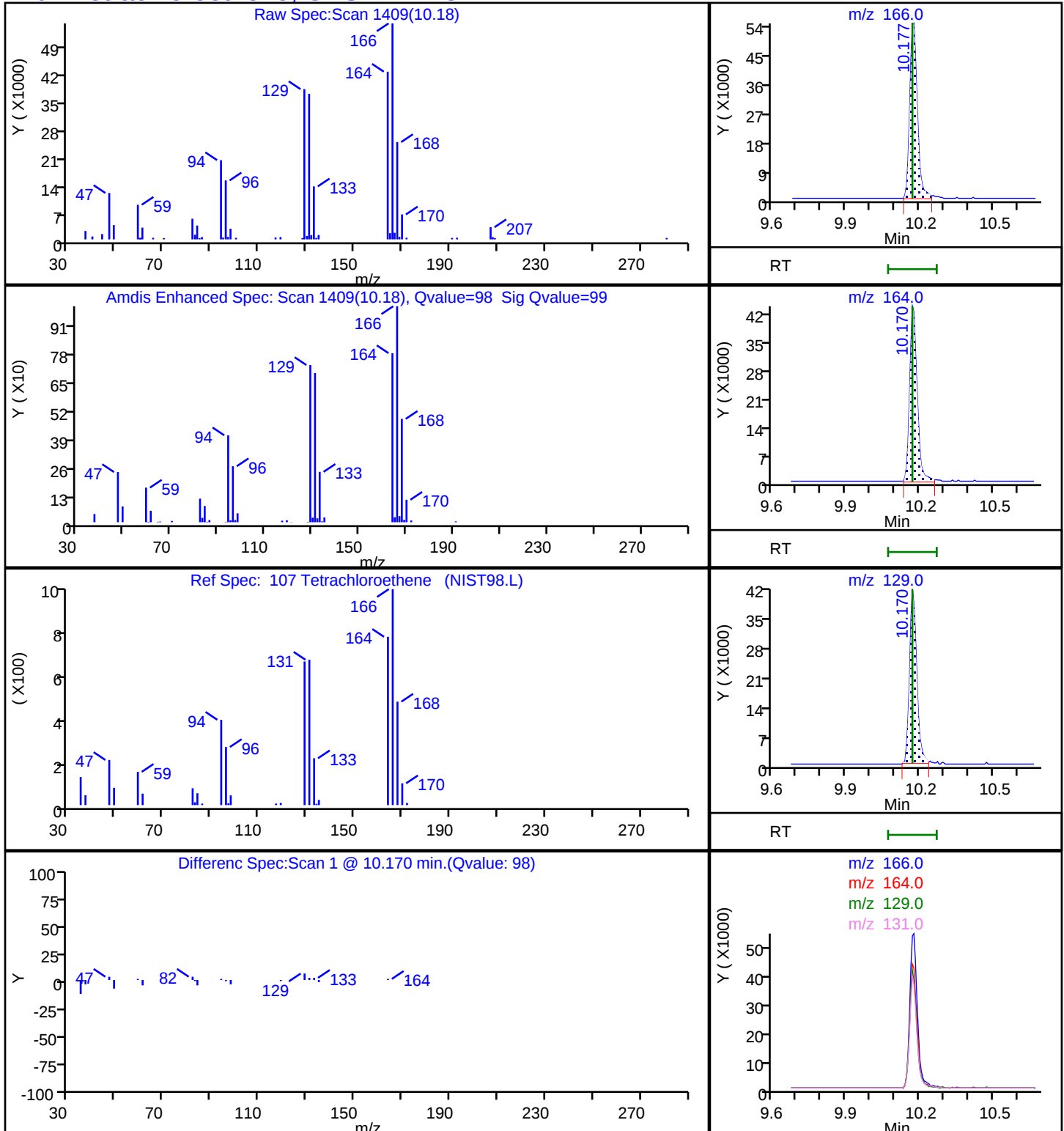
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

107 Tetrachloroethene, CAS: 127-18-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X43.D

Injection Date: 28-Aug-2024 01:05:30

Instrument ID: 19094

Lims ID: 410-185105-A-5

Lab Sample ID: 410-185105-5

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

Operator ID: gaw91131

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

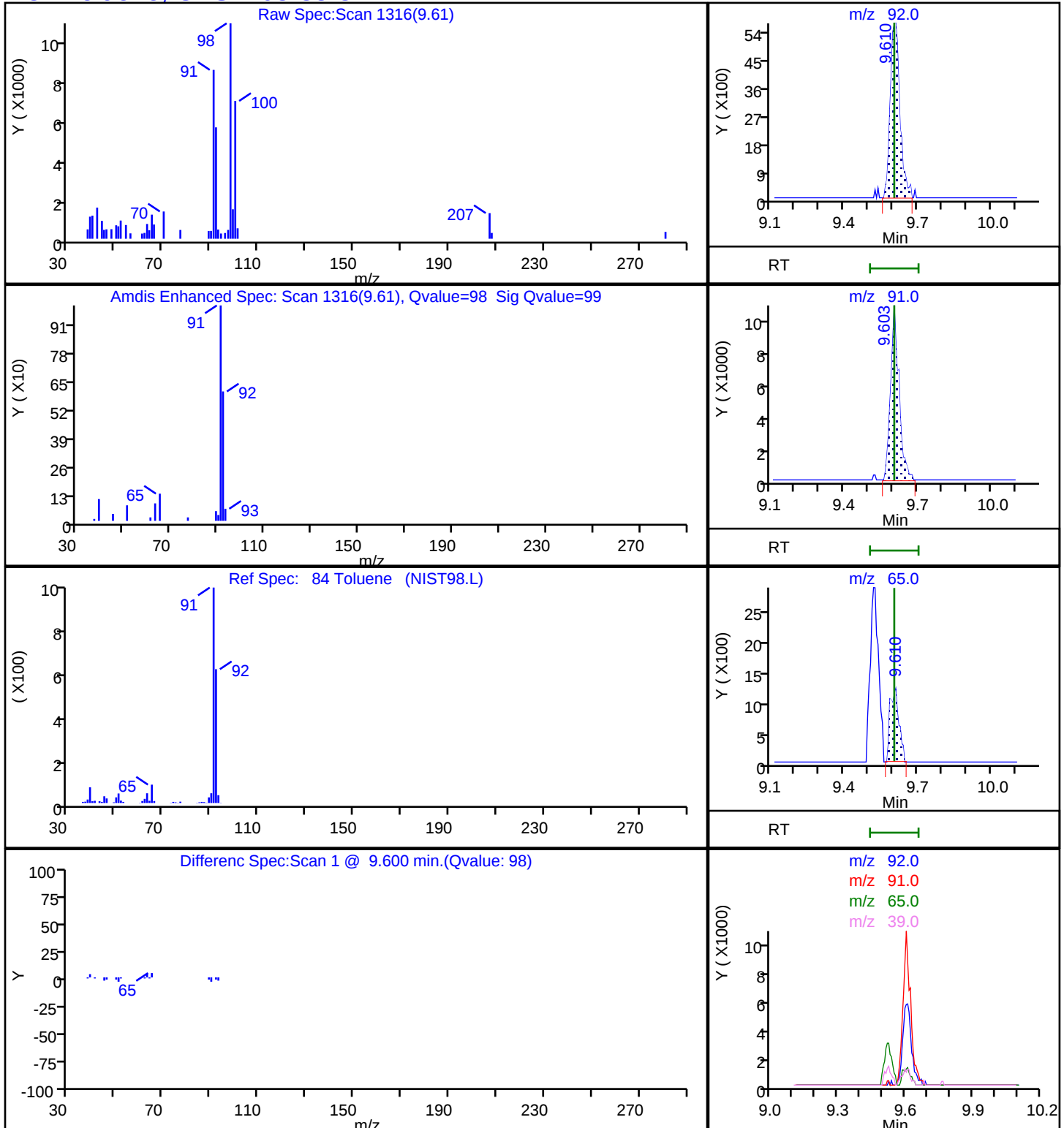
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

84 Toluene, CAS: 108-88-3

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X43.D

Injection Date: 28-Aug-2024 01:05:30

Instrument ID: 19094

Lims ID: 410-185105-A-5

Lab Sample ID: 410-185105-5

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

Operator ID: gaw91131

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

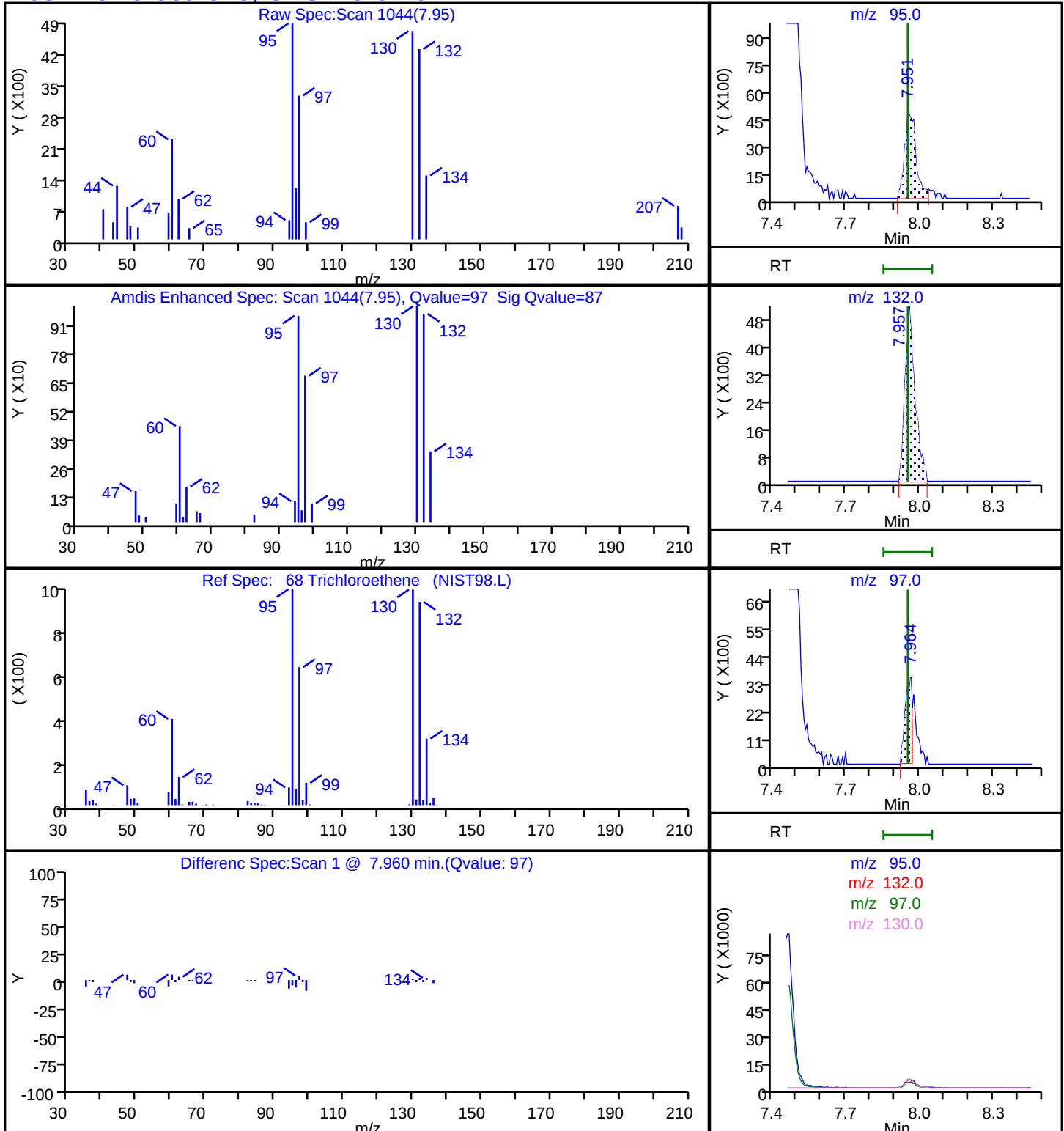
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

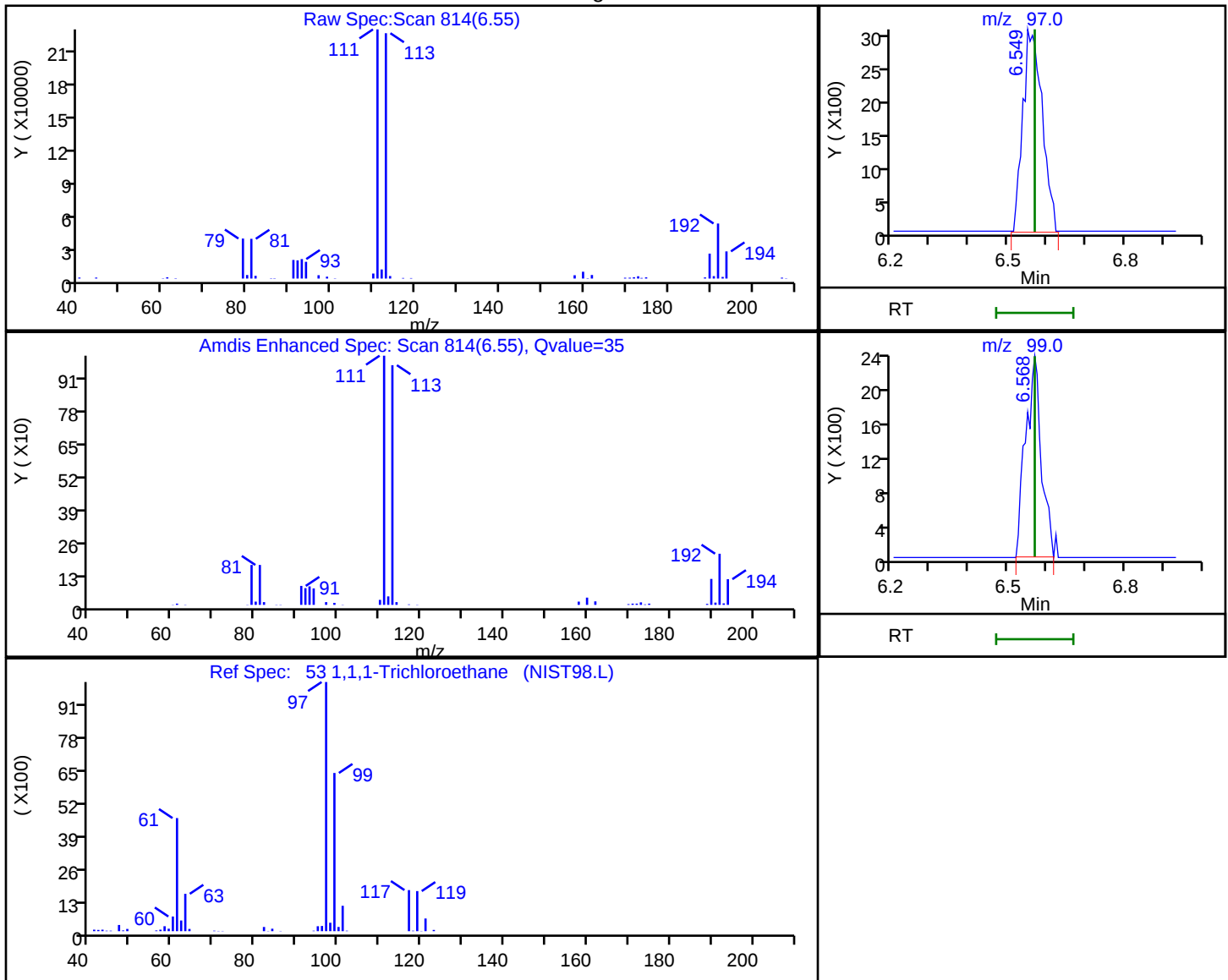
68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X43.D
Injection Date: 28-Aug-2024 01:05:30 Instrument ID: 19094
Lims ID: 410-185105-A-5 Lab Sample ID: 410-185105-5
Client ID: HD-COD-SW-13-0/1-0
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 i.d.) Detector: MS Quad

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

Processing Results



RT	Mass	Response	Amount
6.55	97.00	10418	0.101913
6.57	99.00	6626	

Reviewer: N9NA, 28-Aug-2024 12:38:15 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

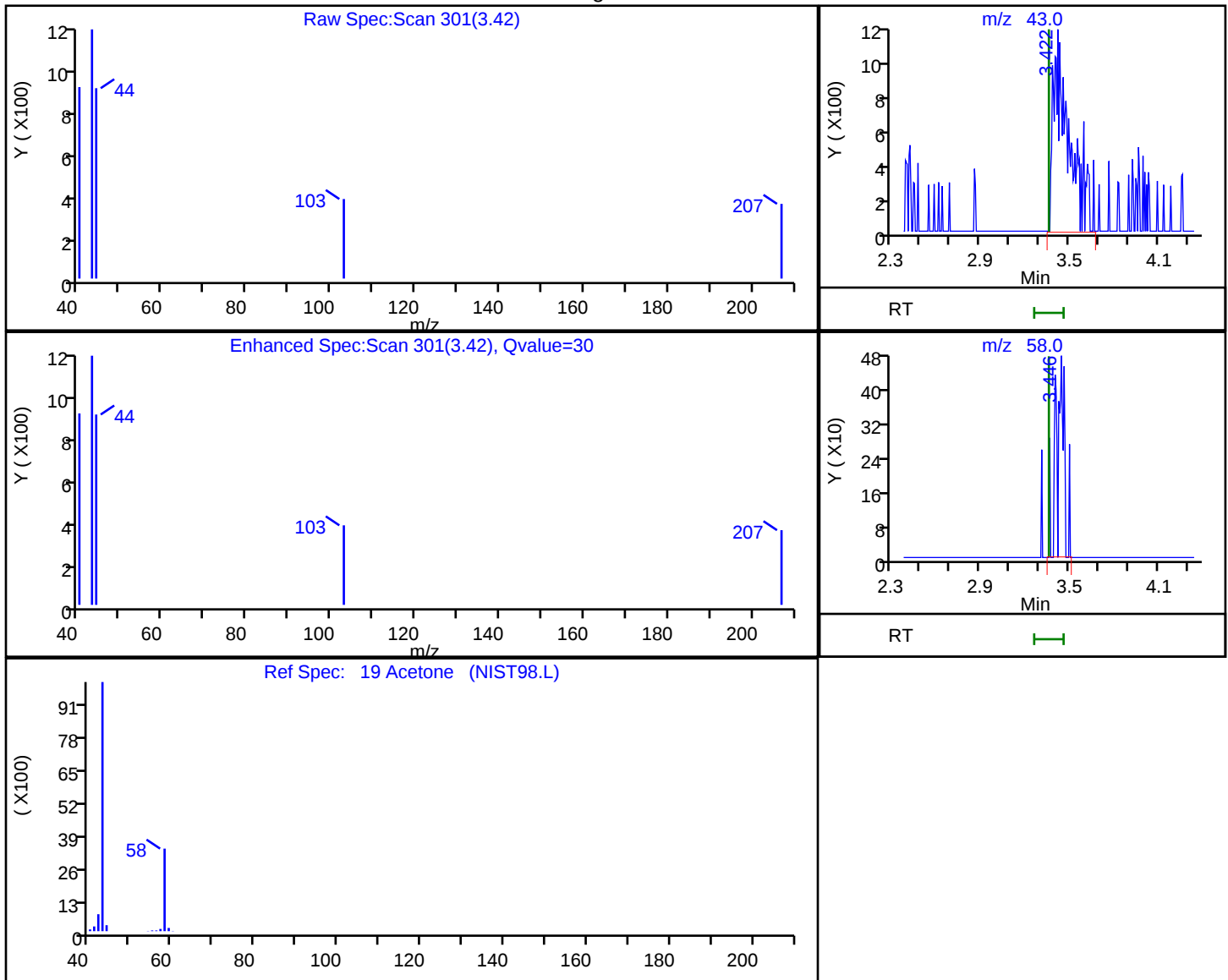
Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X43.D
Injection Date: 28-Aug-2024 01:05:30 Instrument ID: 19094
Lims ID: 410-185105-A-5 Lab Sample ID: 410-185105-5
Client ID: HD-COD-SW-13-0/1-0
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 i.d.) Detector: MS Quad

19 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.42	43.00	8372	1.036719
3.45	58.00	1754	

Reviewer: N9NA, 28-Aug-2024 12:37:57 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

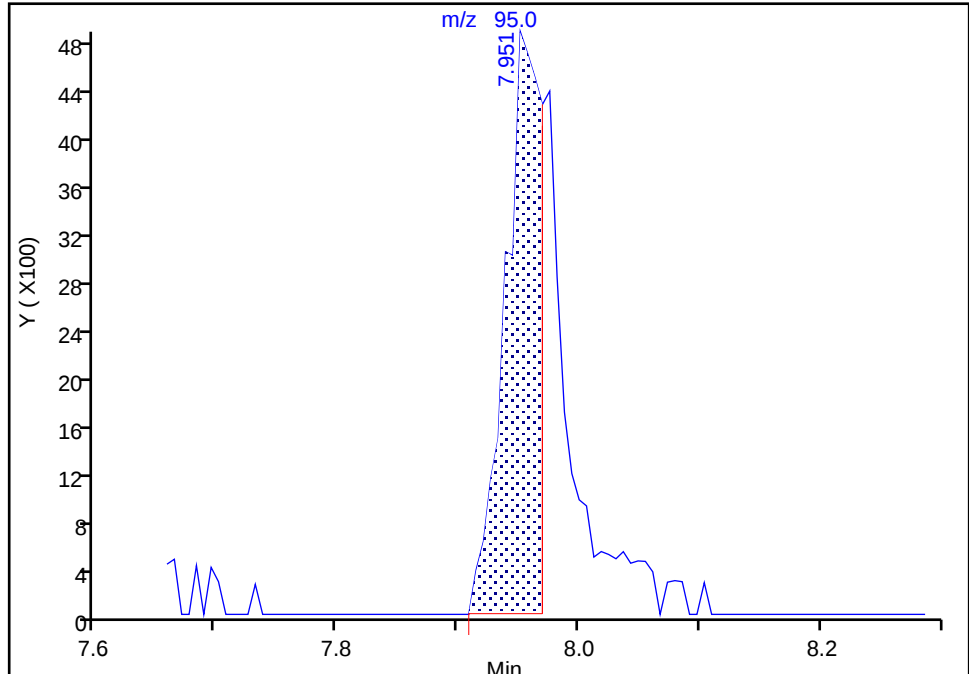
Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X43.D
Injection Date: 28-Aug-2024 01:05:30 Instrument ID: 19094
Lims ID: 410-185105-A-5 Lab Sample ID: 410-185105-5
Client ID: HD-COD-SW-13-0/1-0
Operator ID: gaw91131 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

68 Trichloroethene, CAS: 79-01-6

Signal: 1

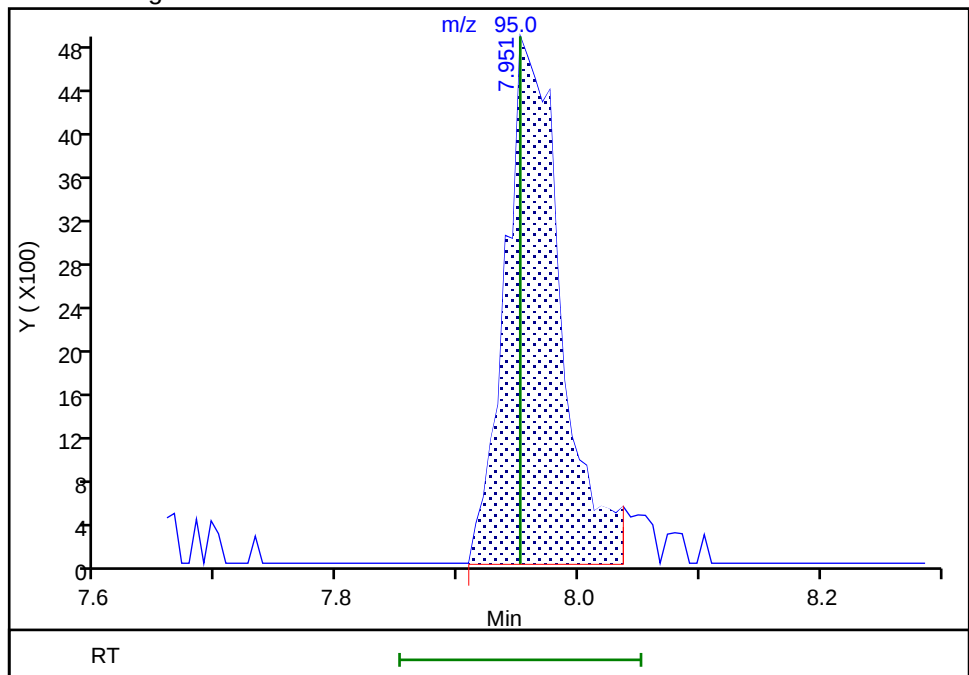
RT: 7.95
Area: 10173
Amount: 0.140040
Amount Units: ug/l

Processing Integration Results



RT: 7.95
Area: 15427
Amount: 0.212366
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 28-Aug-2024 12:38:35 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-6

Matrix: Water

Lab File ID: HG27X44.D

Analysis Method: 8260D

Date Collected: 08/20/2024 11:50

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 01:26

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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

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	0.28	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	0.10	J	0.50	0.10
75-35-4	1,1-Dichloroethene	0.14	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		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	^c cn	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	0.15	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.90		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	4.6		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-6

Matrix: Water

Lab File ID: HG27X44.D

Analysis Method: 8260D

Date Collected: 08/20/2024 11:50

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 01:26

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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

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	0.95		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)	97		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		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\20240827-123379.b\HG27X44.D
 Lims ID: 410-185105-A-6
 Client ID: HD-COD-SW-15-0/1-0
 Sample Type: Client
 Inject. Date: 28-Aug-2024 01:26:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0123379-015
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Aug-2024 00:06:17 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 13:13:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.849				ND	
2 Dichlorodifluoromethane	85		1.879				ND	
3 Chlorodifluoromethane	51		1.898				ND	7
4 Dimethyl ether	45		1.947				ND	
5 Chloromethane	50		2.062				ND	7
7 Butadiene	39		2.160				ND	7
6 Vinyl chloride	62		2.172				ND	7
8 2-Chloro-1,1,1-Trifluoroethane	118		2.239				ND	
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.544				ND	
11 Dichlorofluoromethane	67		2.763				ND	
12 Trichlorofluoromethane	101		2.855				ND	
14 Ethyl ether	59		3.050				ND	
13 Ethanol	45		3.111				ND	
15 1,2-Dichloro-1,1,2-trifluoroetha	67		3.129				ND	
16 Acrolein	56		3.202				ND	
17 1,1-Dichloroethene	96	3.349	3.343	0.007	95	7782	0.1433	
19 Acetone	43		3.361				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.385				ND	
T 18 Ethanol TIC	45		3.440				ND	7
21 Iodomethane	142		3.525				ND	
22 Ethyl bromide	108		3.550				ND	
23 Carbon disulfide	76		3.629				ND	7
24 Methyl acetate	43		3.763				ND	
25 Acetonitrile	41		3.763				ND	
26 3-Chloro-1-propene	41		3.781				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.952	3.952	0.000	26	139349	50.0	
27 Methylene Chloride	84	3.970	3.952	0.018	33	2535	0.0375	
29 2-Methyl-2-propanol	59		4.074				ND	
T 30 Acetonitrile TIC	41	4.330	4.214	0.116	23	347	0.001153	7
31 Acrylonitrile	53		4.269				ND	
32 Methyl tert-butyl ether	73	4.348	4.336	0.012	20	4327	0.0290	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 trans-1,2-Dichloroethene	96		4.355				ND	
34 Hexane	57		4.775				ND	
36 1,1-Dichloroethane	63	5.013	5.007	0.006	93	12091	0.0997	
35 Vinyl acetate	43		5.025				ND	
37 Isopropyl ether	45		5.068				ND	
38 2-Chloro-1,3-butadiene	53		5.123				ND	
T 39 Vinyl acetate (TIC)	43		5.537				ND	
40 Tert-butyl ethyl ether	59		5.610				ND	
41 2-Butanone (MEK)	43		5.818				ND	
42 cis-1,2-Dichloroethene	96	5.854	5.848	0.006	80	65375	0.9042	
43 2,2-Dichloropropane	77		5.866				ND	
44 Propionitrile	54		5.903				ND	
45 Ethyl acetate	43		5.909				ND	
47 Methacrylonitrile	67		6.116				ND	
S 46 1,2-Dichloroethene, Total	100				0		0.9042	
48 Chlorobromomethane	128		6.183				ND	
49 Tetrahydrofuran	71		6.208				ND	
50 Chloroform	83	6.342	6.336	0.006	93	18263	0.1516	
51 Methyl acrylate	55		6.482				ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.555	6.555	0.000	93	723475	9.82	
53 1,1,1-Trichloroethane	97	6.568	6.567	0.001	37	28817	0.2806	
54 Cyclohexane	56		6.677				ND	
56 Carbon tetrachloride	117		6.787				ND	7
55 1,1-Dichloropropene	75		6.787				ND	
57 Isobutyl alcohol	41		6.939				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.013	0.006	72	145326	9.66	
59 Benzene	78		7.049				ND	7
60 1,2-Dichloroethane	62		7.122				ND	
61 Isopropyl acetate	43		7.147				ND	
63 Tert-amyl methyl ether	73		7.250				ND	
62 1-Chlorobutane	56	7.458	7.250	0.208	16	9448	NC	
* 64 Fluorobenzene (IS)	96	7.464	7.464	0.000	98	3008540	10.0	
65 n-Heptane	43		7.482				ND	7
67 n-Butanol	56		7.842				ND	
66 t-Amyl alcohol	73		7.842				ND	
68 Trichloroethene	95	7.958	7.951	0.007	98	69040	0.9460	
69 Methylcyclohexane	83		8.262				ND	
70 1,2-Dichloropropane	63		8.281				ND	
71 2-ethoxy-2-methyl butane	87		8.299				ND	
72 Methyl methacrylate	69		8.378				ND	
73 1,4-Dioxane	88		8.390				ND	
74 Dibromomethane	93		8.390				ND	
75 n-Propyl acetate	61		8.470				ND	
76 Dichlorobromomethane	83		8.634				ND	
77 2-Nitropropane	41		8.902				ND	
78 2-Chloroethyl vinyl ether	63		9.018				ND	
79 1-Bromo-2-chloroethane	63		9.037				ND	
80 cis-1,3-Dichloropropene	75		9.201				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.378				ND	
81 Chloroacetonitrile	75		9.427				ND	
\$ 83 Toluene-d8 (Surr)	98	9.524	9.524	0.000	94	2969272	10.2	
84 Toluene	92	9.610	9.603	0.007	94	5440	0.0307	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75		9.872				ND	
104 Ethyl methacrylate	69		9.945				ND	
T 92 Nitrobenzene TIC	77	9.518	10.000	-0.482	15	2381	0.007914	7
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	9.536	10.000	-0.464	1	411	0.001366	7
T 89 Epibromohydrin TIC	57		10.000				ND	
T 90 3-Chloro-1,2-propanediol TIC	44		10.000				ND	
T 91 Octamethylcyclotetrasiloxane TIC	78	12.085	10.000	2.085	78	18377	0.0611	7
T 94 Hexachloroethane TIC	117	10.171	10.000	0.170	12	2374	0.007891	7
T 93 Methyl acrylate TIC	55	9.518	10.000	-0.482	13	10824	0.0360	
T 96 Monochloroacetic acid TIC	50	9.646	10.000	-0.354	1	132	0.000439	7
T 95 Chloroacetaldehyde TIC	50	9.646	10.000	-0.354	1	132	0.000439	7
T 103 2-Bromoethanol TIC	45	9.549	10.000	-0.451	4	698	0.002320	7
T 102 Epichlorohydrin TIC	57	9.518	10.000	-0.482	31	2489	0.008273	7
T 101 Vinyl bromide TIC	106	11.146	10.000	1.146	1	93	0.000309	7
T 86 Decamethylcyclopentasiloxane TIC	78	10.341	10.000	0.341	1	374	0.001243	7
T 99 Isopropyl alcohol TIC	45		10.000				ND	
T 98 2-Chloroethanol TIC	44	9.823	10.000	-0.177	1	1065	0.003540	7
T 97 2,3-Dibromopropene TIC	119	10.177	10.000	0.177	1	2878	0.009566	7
S 105 1,3-Dichloropropene, Total	100		10.060				ND	7
106 1,1,2-Trichloroethane	97		10.079				ND	7
107 Tetrachloroethene	166	10.177	10.170	0.007	98	376352	4.57	
108 1,3-Dichloropropane	76		10.250				ND	
109 2-Hexanone	43		10.305				ND	
110 n-Butyl acetate	43		10.439				ND	
111 Chlorodibromomethane	129		10.469				ND	7
112 Ethylene Dibromide	107		10.585				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	2243528	10.0	
114 1-Chlorohexane	91		11.036				ND	7
115 Chlorobenzene	112		11.048				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	7
120 o-Xylene	106		11.591				ND	7
121 Styrene	104		11.609				ND	7
122 Bromoform	173		11.768				ND	7
123 Isopropylbenzene	105		11.896				ND	
124 cis-1,4-Dichloro-2-butene	88		11.945				ND	
125 Cyclohexanone	55		11.969				ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	90	1057100	9.70	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
128 Bromobenzene	156		12.158				ND	
129 trans-1,4-Dichloro-2-butene	53		12.170				ND	
130 1,2,3-Trichloropropane	110		12.188				ND	
131 N-Propylbenzene	91		12.225				ND	
132 2-Chlorotoluene	126		12.304				ND	
133 1,3,5-Trimethylbenzene	105		12.365				ND	7
134 4-Chlorotoluene	126		12.396				ND	
135 tert-Butylbenzene	134		12.609				ND	
136 Pentachloroethane	167		12.639				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
137 1,2,4-Trimethylbenzene	105		12.652				ND	7
138 sec-Butylbenzene	105		12.774				ND	
139 1,3-Dichlorobenzene	146		12.871				ND	7
140 4-Isopropyltoluene	119		12.883				ND	7
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	95	1173523	10.0	
142 1,4-Dichlorobenzene	146		12.944				ND	7
143 1,2,3-Trimethylbenzene	120		12.956				ND	7
144 Benzyl chloride	126		13.024				ND	7
145 p-Diethylbenzene	119		13.158				ND	
146 n-Butylbenzene	92		13.176				ND	
147 1,2-Dichlorobenzene	146		13.206				ND	
148 Hexachloroethane	201		13.682				ND	
149 1,2-Dibromo-3-Chloropropane	155		13.755				ND	
150 1,3,5-Trichlorobenzene	180		13.883				ND	
151 1,2,4-Trichlorobenzene	180		14.304				ND	
152 Hexachlorobutadiene	225		14.389				ND	
153 Naphthalene	128		14.481				ND	
154 1,2,3-Trichlorobenzene	180		14.627				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

Reagents:

MSV_LLcentISS_00013

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 28-Aug-2024 13:13:21

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X44.D

Injection Date: 28-Aug-2024 01:26:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-185105-A-6

Lab Sample ID: 410-185105-6

Worklist Smp#: 15

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

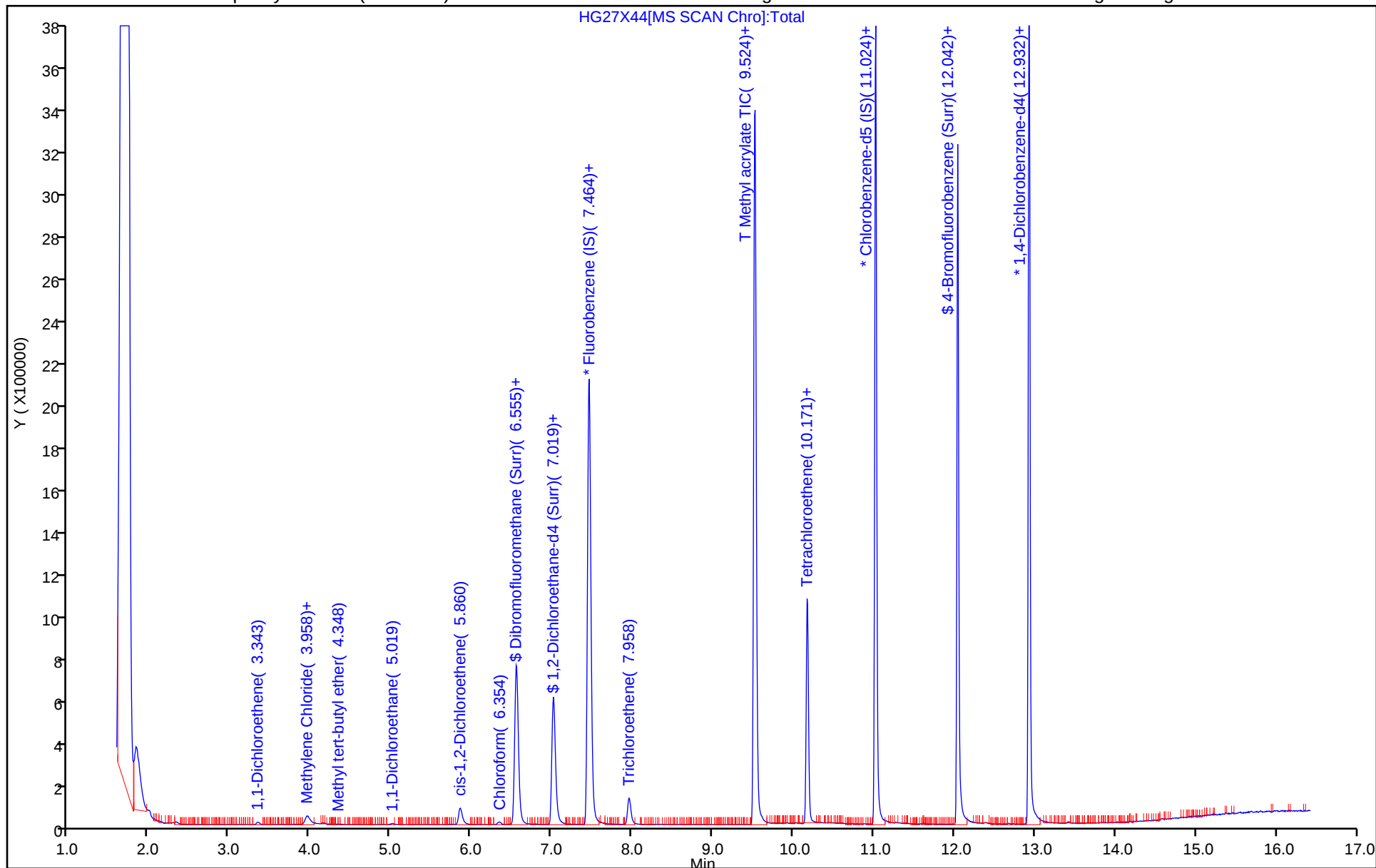
ALS Bottle#: 14

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\20240827-123379.b\HG27X44.D
Lims ID: 410-185105-A-6
Client ID: HD-COD-SW-15-0/1-0
Sample Type: Client
Inject. Date: 28-Aug-2024 01:26:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0123379-015
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Aug-2024 00:06:17 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 13:13:20

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.82	98.20
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.66	96.57
\$ 83 Toluene-d8 (Surr)	10.0	10.2	101.77
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.70	97.02

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X44.D

Injection Date: 28-Aug-2024 01:26:30

Instrument ID: 19094

Lims ID: 410-185105-A-6

Lab Sample ID: 410-185105-6

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

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

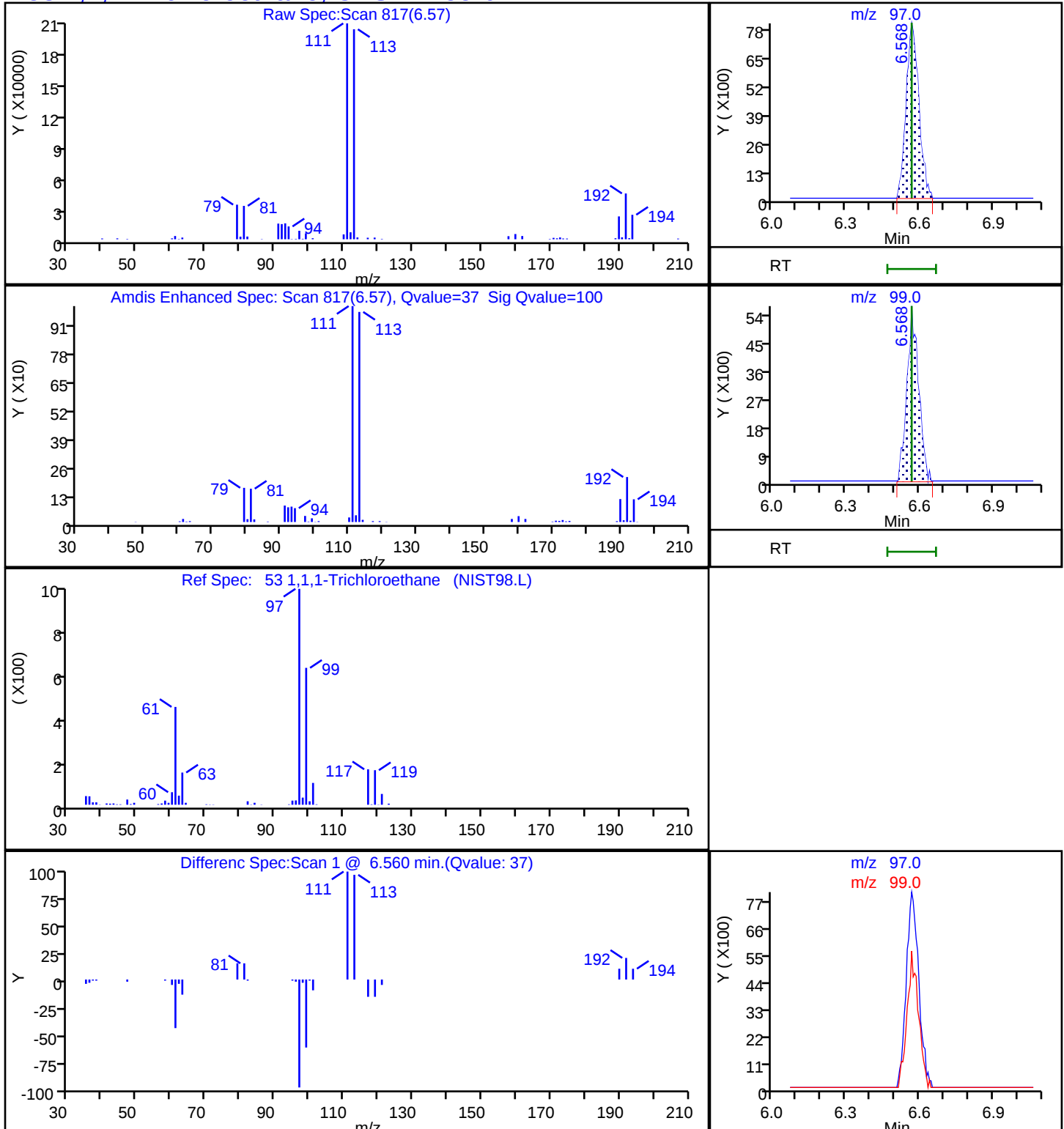
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X44.D

Injection Date: 28-Aug-2024 01:26:30

Instrument ID: 19094

Lims ID: 410-185105-A-6

Lab Sample ID: 410-185105-6

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

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

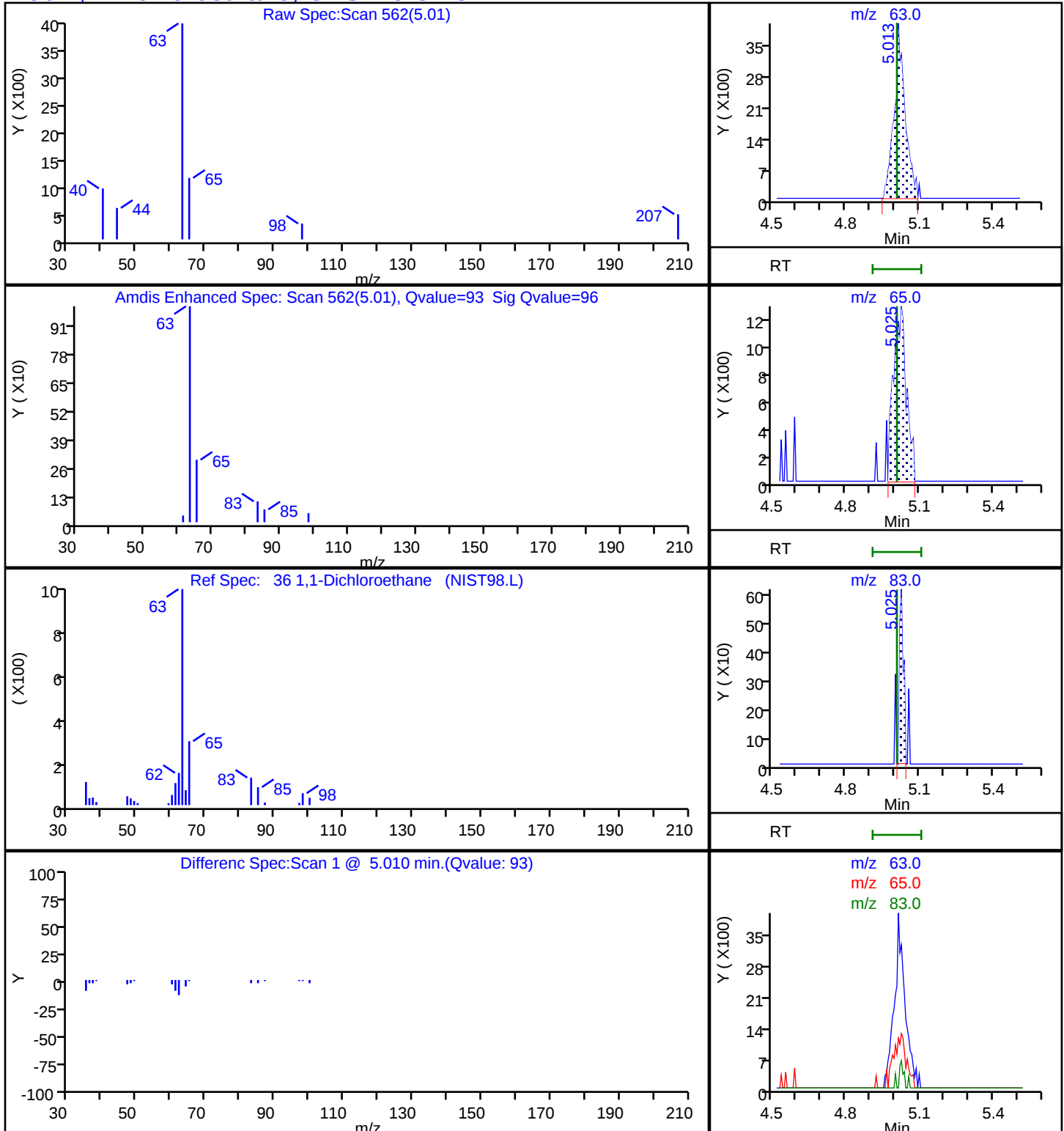
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X44.D

Injection Date: 28-Aug-2024 01:26:30

Instrument ID: 19094

Lims ID: 410-185105-A-6

Lab Sample ID: 410-185105-6

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

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

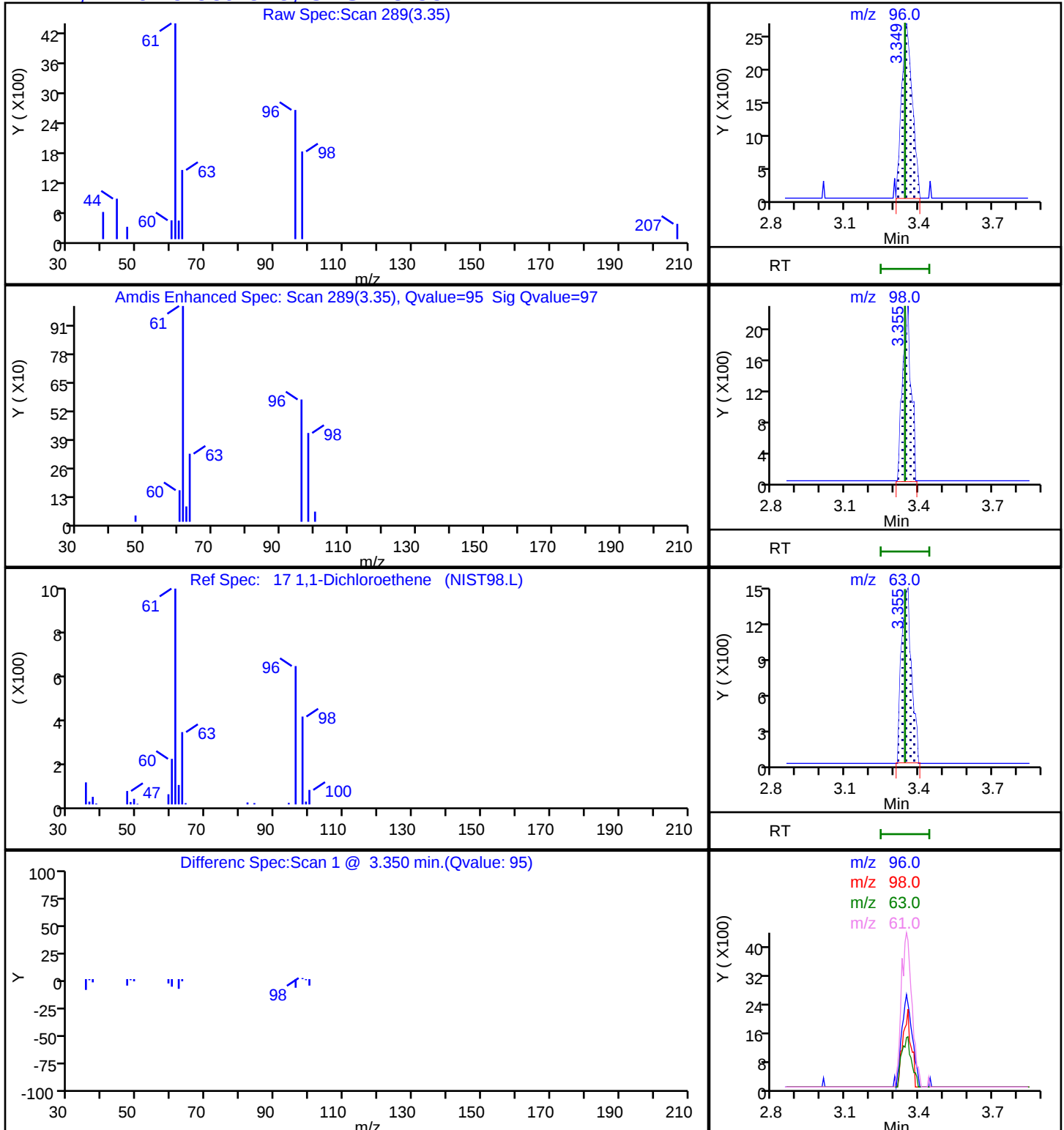
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X44.D

Injection Date: 28-Aug-2024 01:26:30

Instrument ID: 19094

Lims ID: 410-185105-A-6

Lab Sample ID: 410-185105-6

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

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

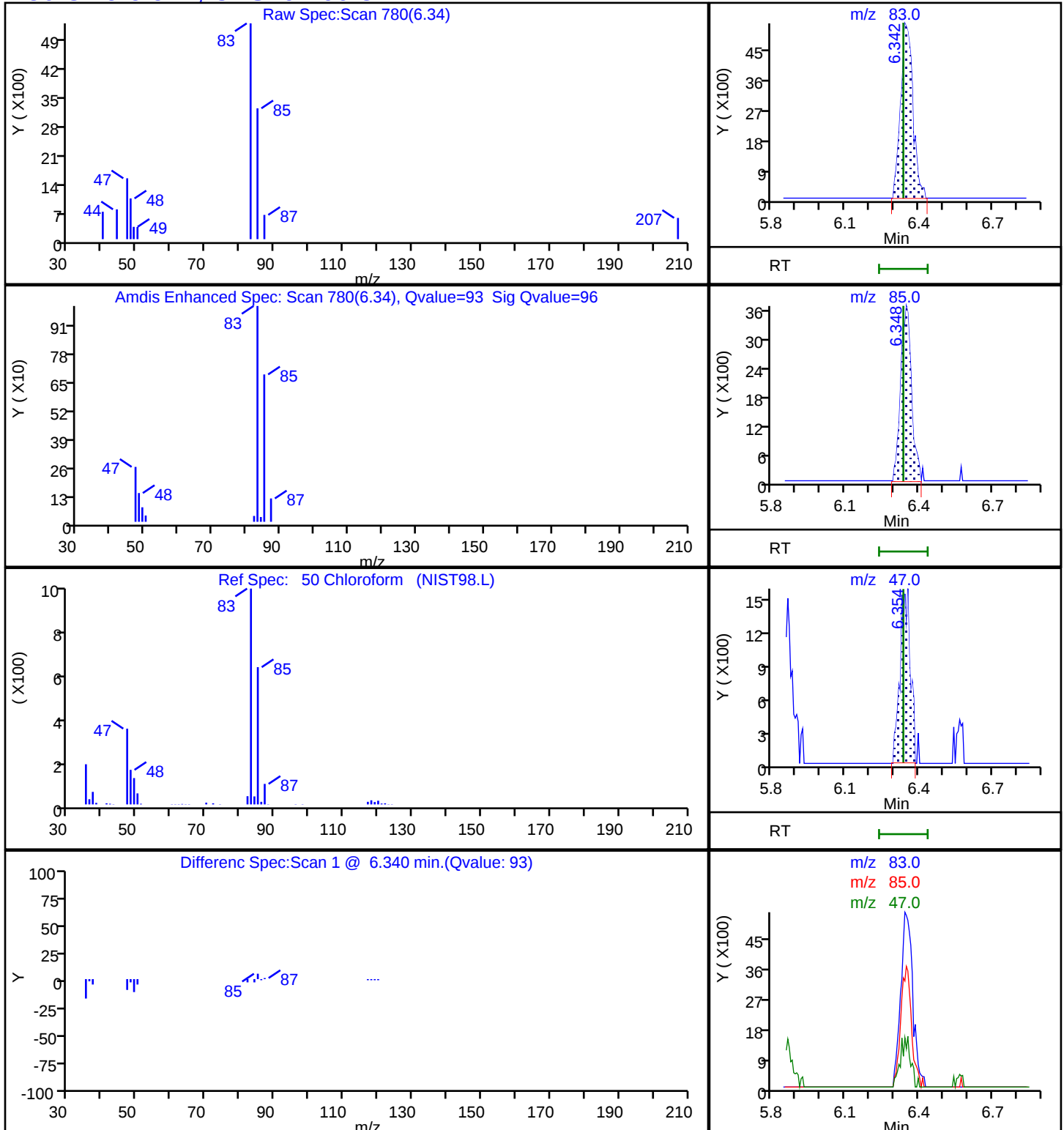
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X44.D

Injection Date: 28-Aug-2024 01:26:30

Instrument ID: 19094

Lims ID: 410-185105-A-6

Lab Sample ID: 410-185105-6

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

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

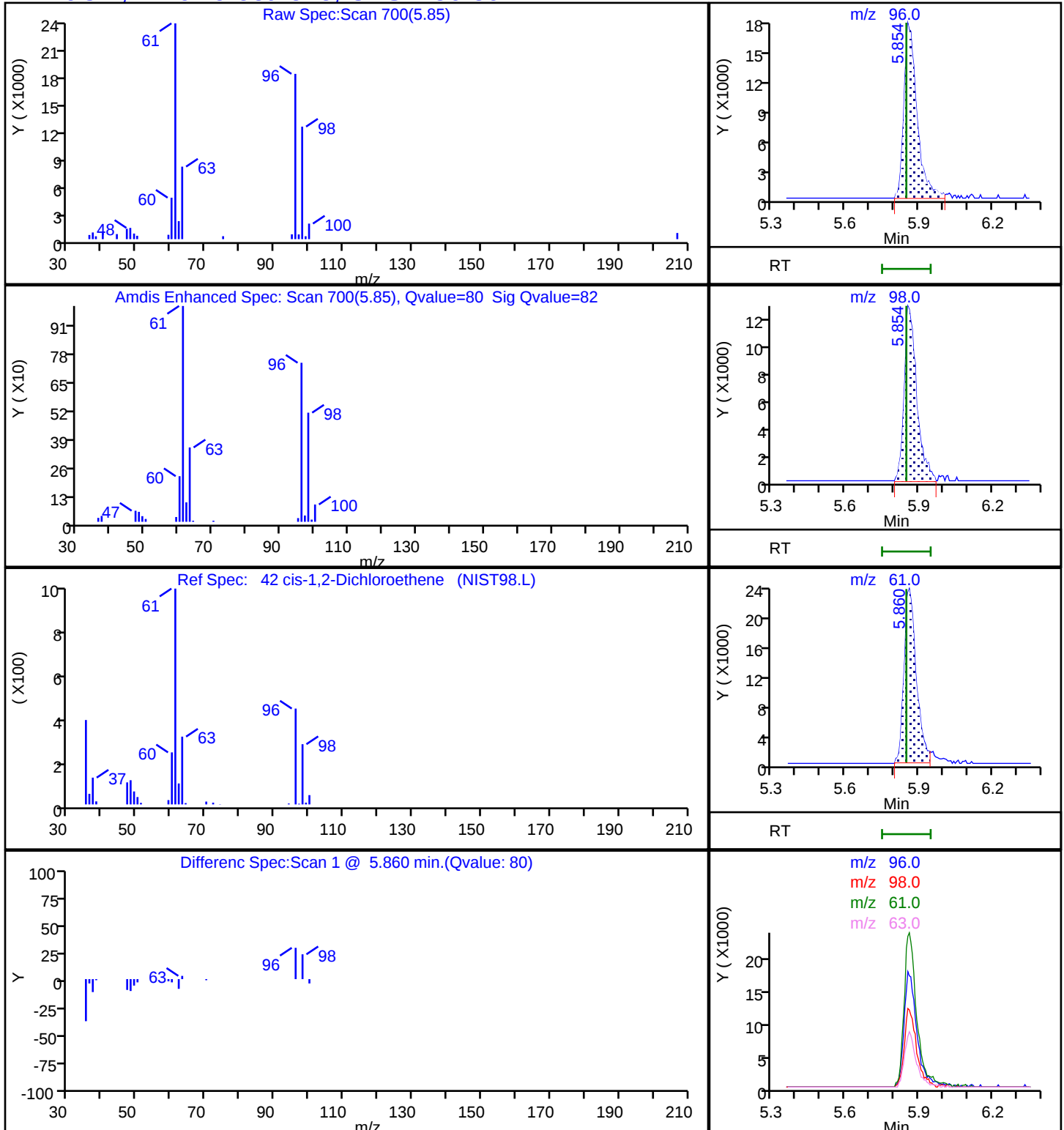
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X44.D

Injection Date: 28-Aug-2024 01:26:30

Instrument ID: 19094

Lims ID: 410-185105-A-6

Lab Sample ID: 410-185105-6

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

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

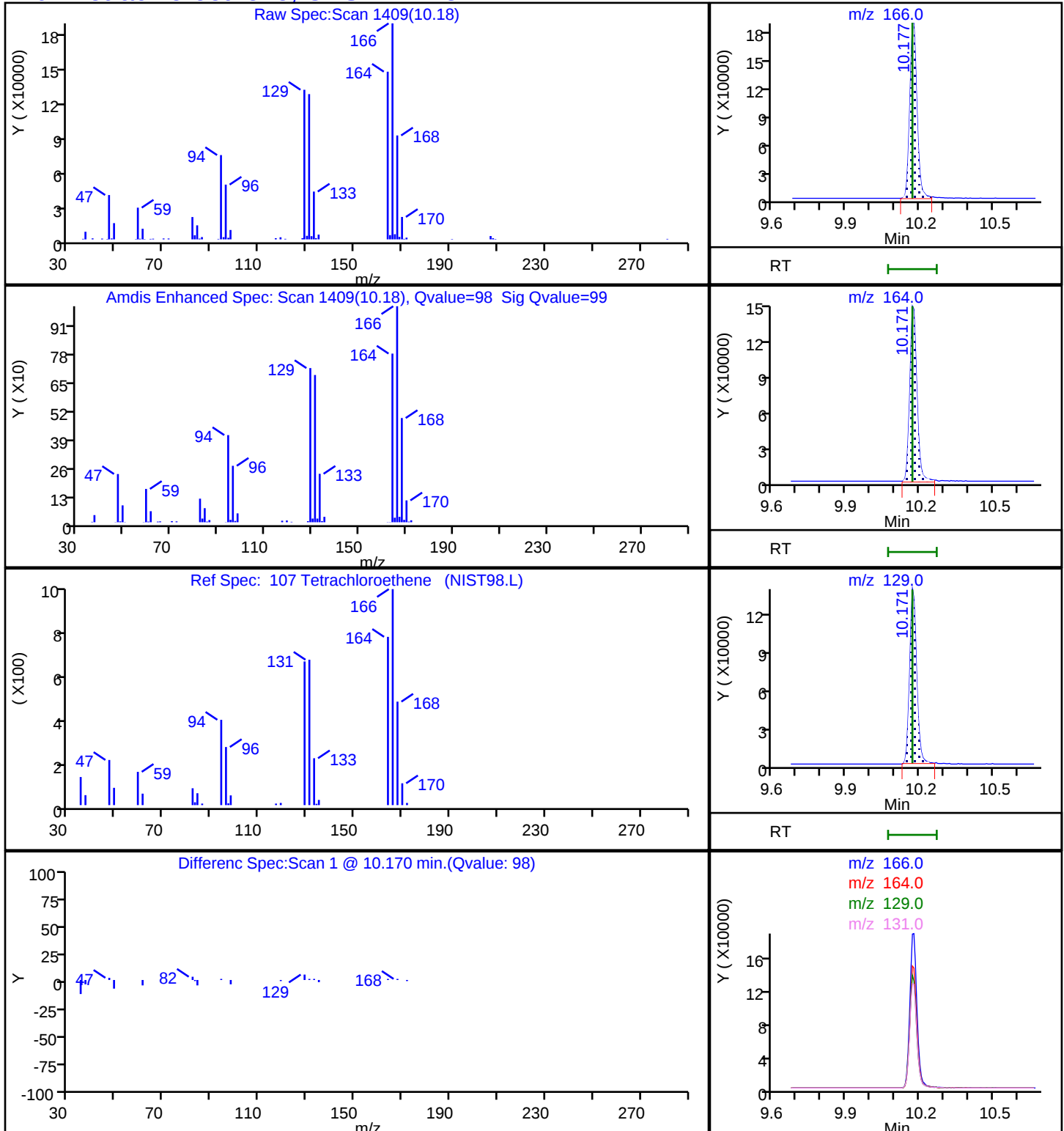
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

107 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X44.D

Injection Date: 28-Aug-2024 01:26:30

Instrument ID: 19094

Lims ID: 410-185105-A-6

Lab Sample ID: 410-185105-6

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

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

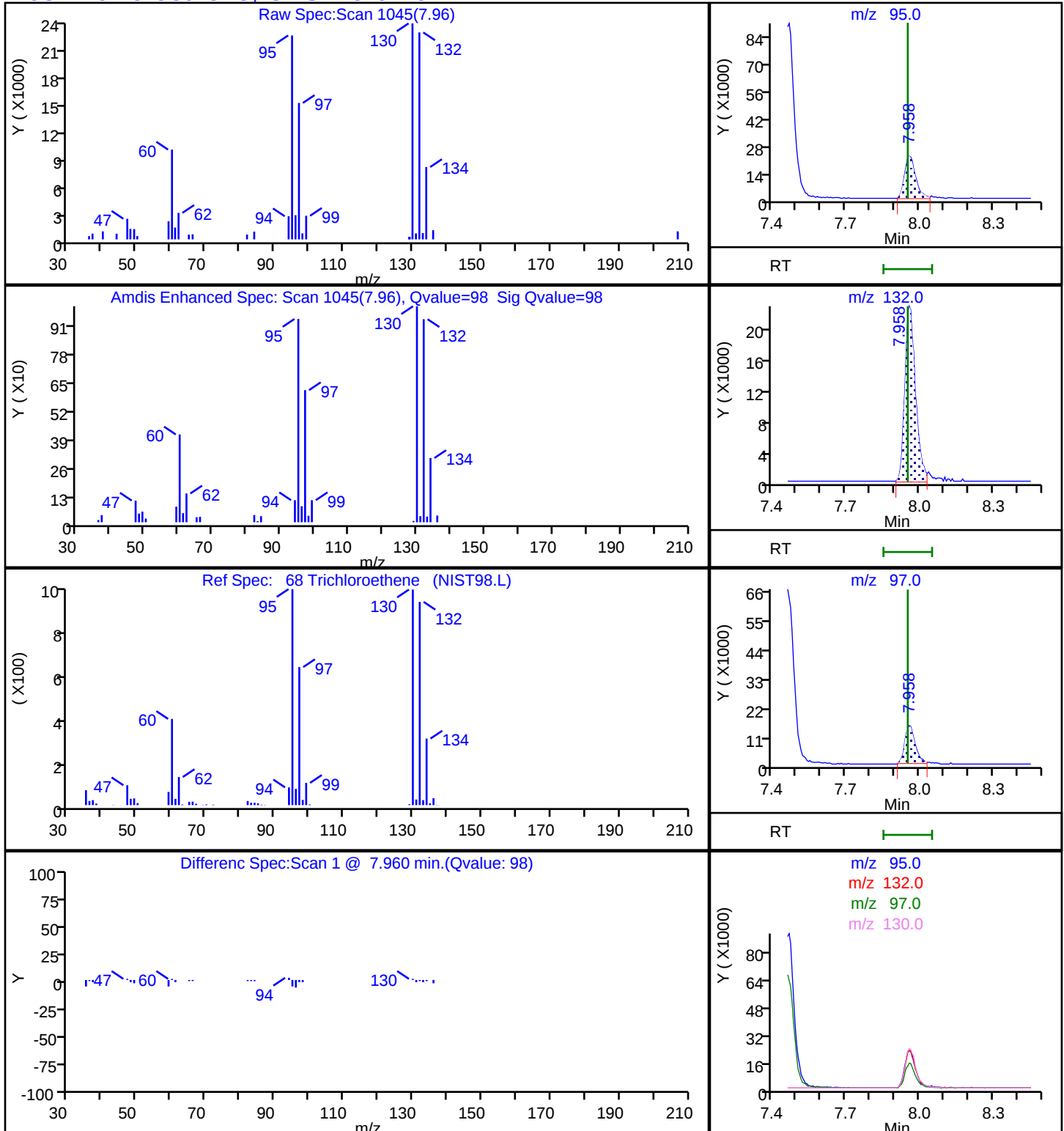
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm ID) 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.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-7

Matrix: Water

Lab File ID: HG27X47.D

Analysis Method: 8260D

Date Collected: 08/20/2024 10:00

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 02:28

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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

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	0.17	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		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	^c cn	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	0.091	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.20	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	2.4		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-7

Matrix: Water

Lab File ID: HG27X47.D

Analysis Method: 8260D

Date Collected: 08/20/2024 10:00

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 02:28

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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

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	0.23	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)	93		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X47.D
 Lims ID: 410-185105-A-7
 Client ID: HD-COD-SW-16-0/1-0
 Sample Type: Client
 Inject. Date: 28-Aug-2024 02:28:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0123379-018
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Aug-2024 14:11:16 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 14:11:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.050	2.062	-0.012	98	6180	0.0633	
6 Vinyl chloride	62		2.172				ND	7
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.544				ND	
17 1,1-Dichloroethene	96		3.343				ND	7
19 Acetone	43	3.440	3.361	0.079	67	8304	1.09	
23 Carbon disulfide	76	3.617	3.629	-0.012	98	7847	0.0497	
* 28 t-Butyl alcohol-d10 (IS)	65	3.946	3.952	-0.006	27	143344	50.0	
27 Methylene Chloride	84	3.952	3.952	0.000	34	3261	0.0472	
32 Methyl tert-butyl ether	73		4.336				ND	
33 trans-1,2-Dichloroethene	96		4.355				ND	
36 1,1-Dichloroethane	63	5.007	5.007	0.000	1	3926	0.0317	
41 2-Butanone (MEK)	43		5.818				ND	
42 cis-1,2-Dichloroethene	96	5.867	5.848	0.018	77	14519	0.1967	
48 Chlorobromomethane	128		6.183				ND	
50 Chloroform	83	6.348	6.336	0.012	91	11180	0.0909	
\$ 52 Dibromofluoromethane (Surr)	113	6.549	6.555	-0.006	93	737845	9.81	
53 1,1,1-Trichloroethane	97	6.555	6.567	-0.012	36	17851	0.1703	
56 Carbon tetrachloride	117		6.787				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.013	0.006	73	142209	9.26	
59 Benzene	78		7.049				ND	7
60 1,2-Dichloroethane	62		7.122				ND	
* 64 Fluorobenzene (IS)	96	7.458	7.464	-0.006	98	3071118	10.0	
68 Trichloroethene	95	7.958	7.951	0.007	97	17404	0.2336	
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	7
80 cis-1,3-Dichloropropene	75		9.201				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.378				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.518	9.524	-0.006	94	3018621	10.4	
84 Toluene	92	9.604	9.603	0.001	98	19287	0.1094	
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.171	10.170	0.001	97	197008	2.41	
109 2-Hexanone	43		10.305				ND	7
111 Chlorodibromomethane	129		10.469				ND	
112 Ethylene Dibromide	107		10.585				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	87	2229283	10.0	
115 Chlorobenzene	112		11.048				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	7
S 118 Xylenes, Total	106				0		0.1097	
119 m-Xylene & p-Xylene	106	11.274	11.256	0.018	99	9666	0.0744	
120 o-Xylene	106	11.609	11.591	0.018	96	4521	0.0353	
121 Styrene	104		11.609				ND	7
122 Bromoform	173		11.768				ND	7
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	90	1083924	10.0	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	96	1190367	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00013

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 28-Aug-2024 14:11:17

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X47.D

Injection Date: 28-Aug-2024 02:28:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-185105-A-7

Lab Sample ID: 410-185105-7

Worklist Smp#: 18

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

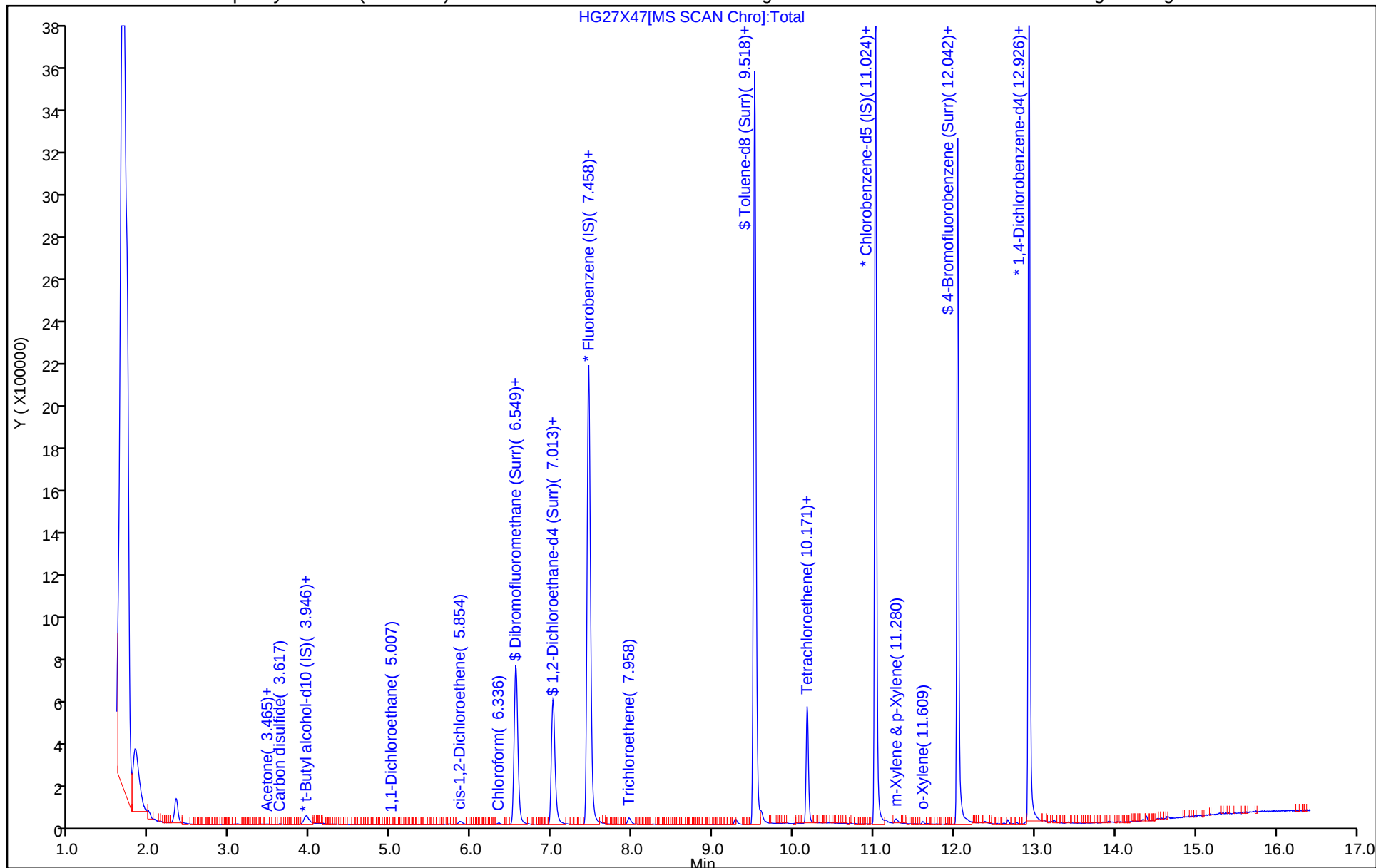
ALS Bottle#: 17

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\20240827-123379.b\HG27X47.D
Lims ID: 410-185105-A-7
Client ID: HD-COD-SW-16-0/1-0
Sample Type: Client
Inject. Date: 28-Aug-2024 02:28:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0123379-018
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Aug-2024 14:11:16 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 14:11:16

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.81	98.11
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.26	92.57
\$ 83 Toluene-d8 (Surr)	10.0	10.4	104.12
\$ 126 4-Bromofluorobenzene (Surr)	10.0	10.0	100.12

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X47.D

Injection Date: 28-Aug-2024 02:28:30

Instrument ID: 19094

Lims ID: 410-185105-A-7

Lab Sample ID: 410-185105-7

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

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

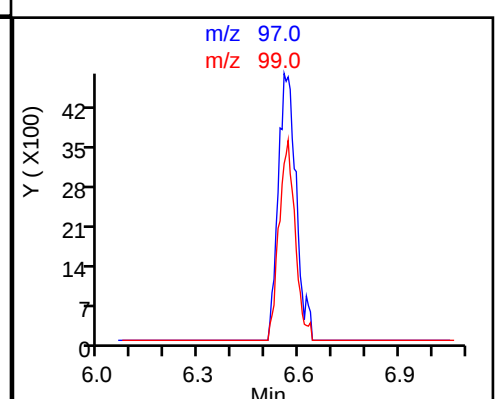
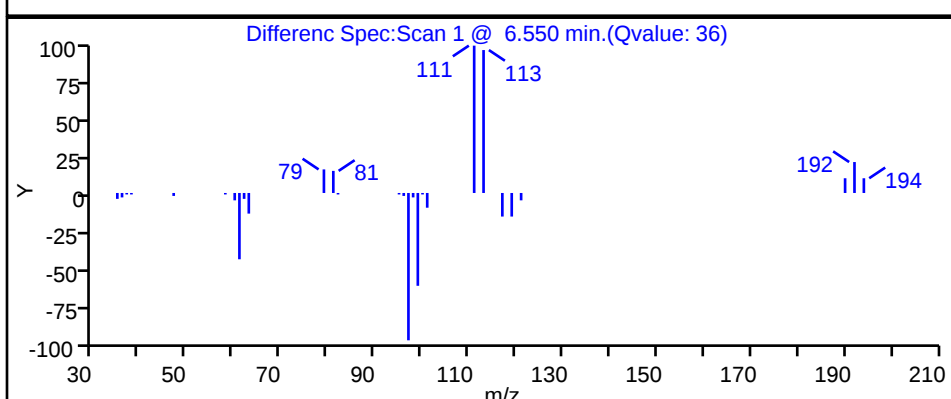
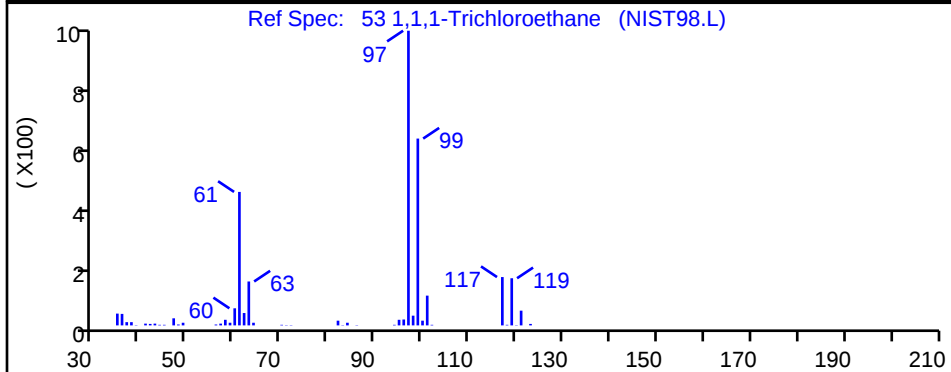
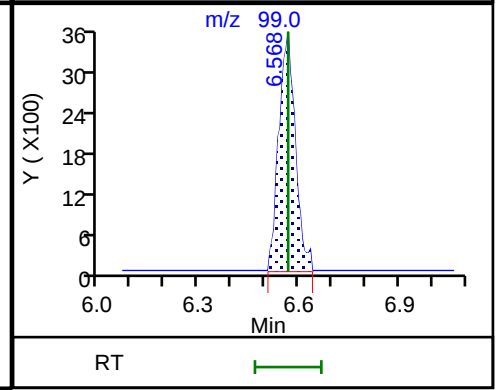
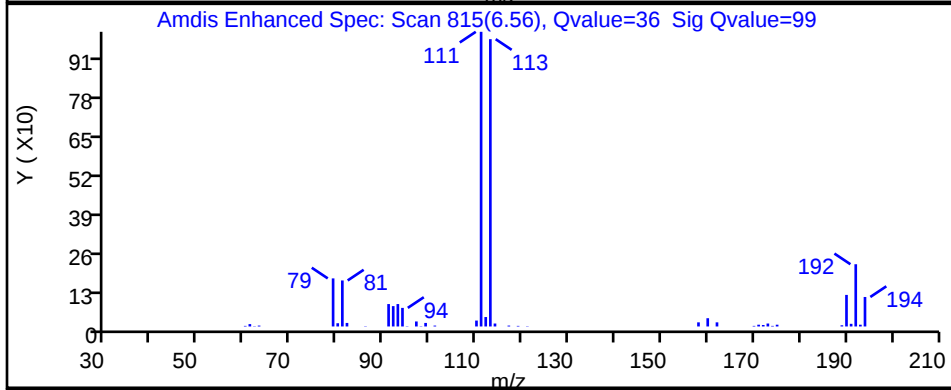
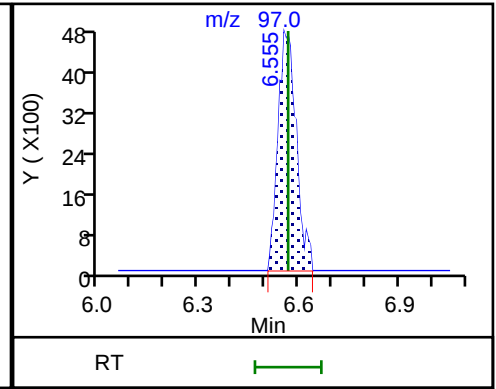
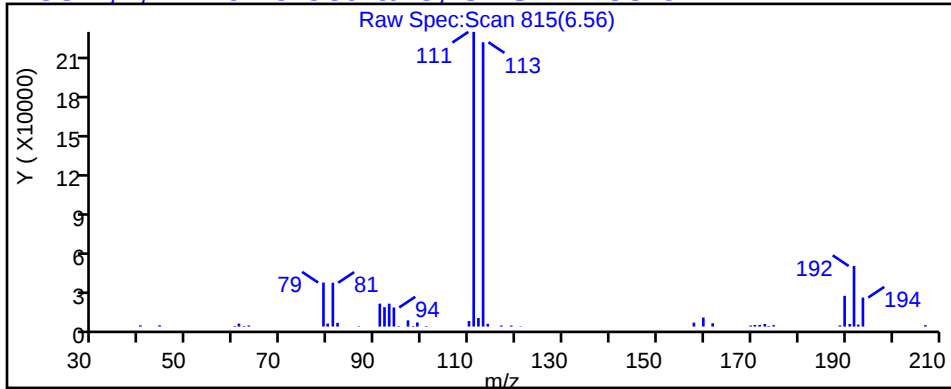
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X47.D

Injection Date: 28-Aug-2024 02:28:30

Instrument ID: 19094

Lims ID: 410-185105-A-7

Lab Sample ID: 410-185105-7

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

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

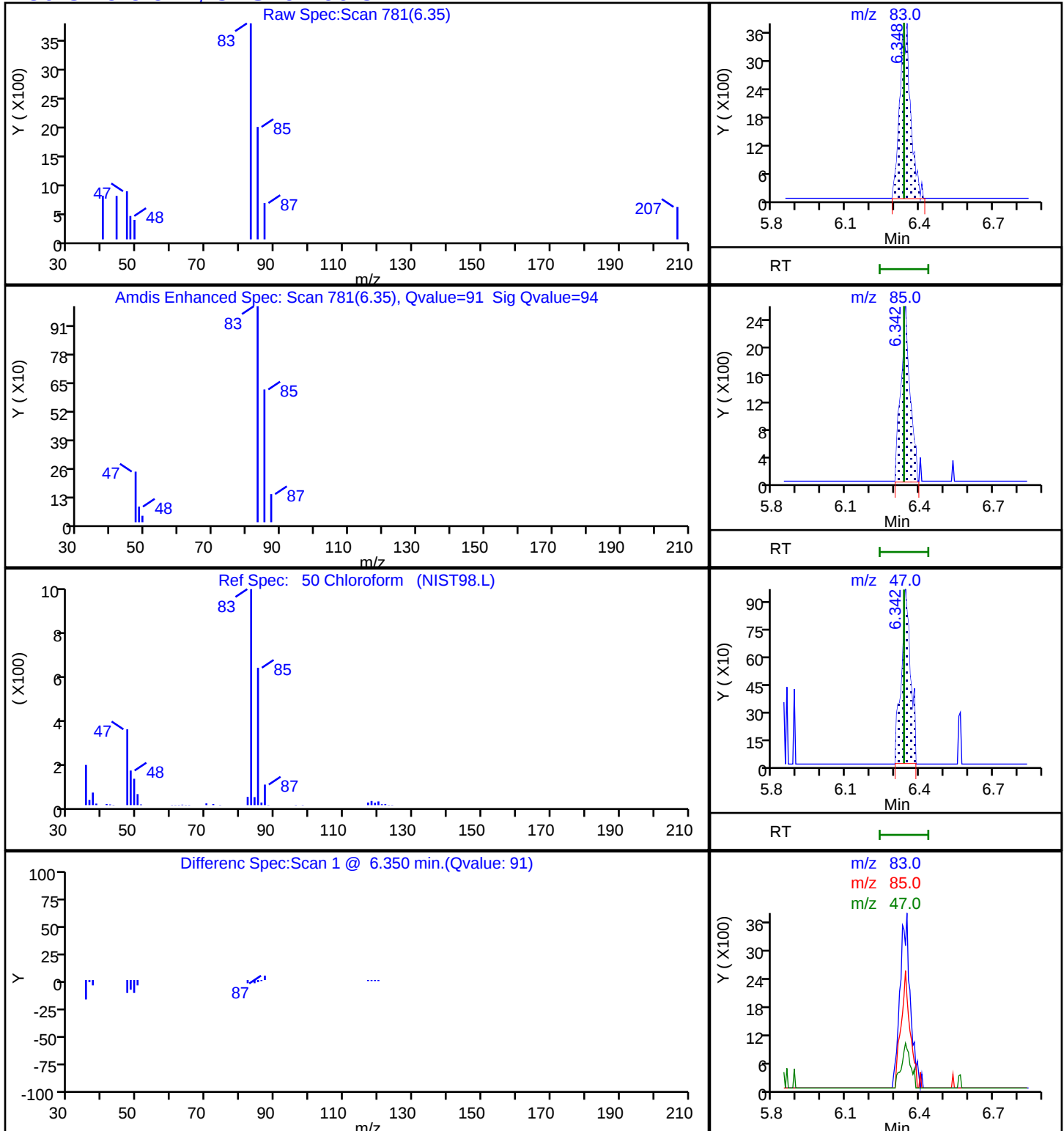
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X47.D

Injection Date: 28-Aug-2024 02:28:30

Instrument ID: 19094

Lims ID: 410-185105-A-7

Lab Sample ID: 410-185105-7

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

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

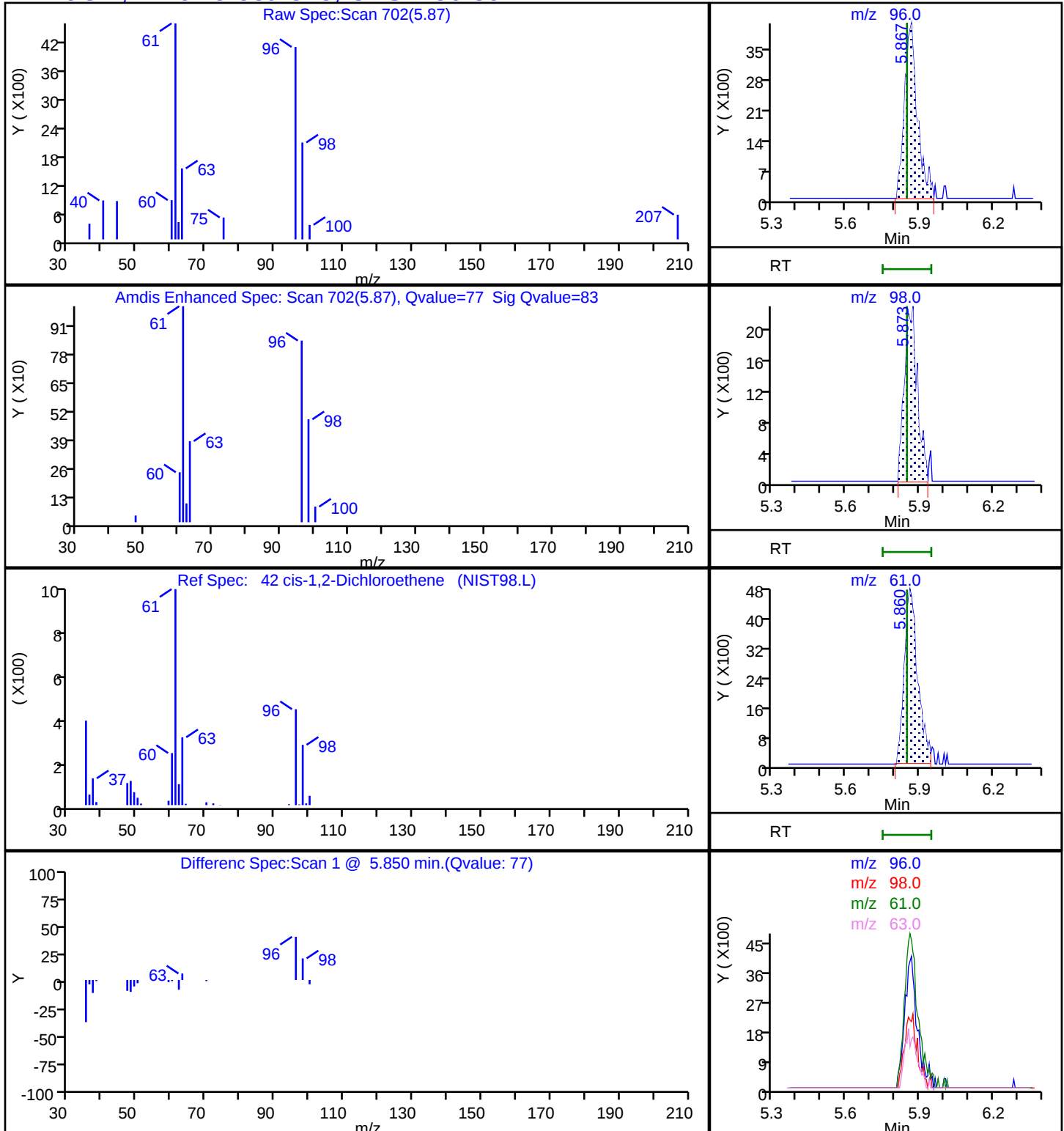
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X47.D

Injection Date: 28-Aug-2024 02:28:30

Instrument ID: 19094

Lims ID: 410-185105-A-7

Lab Sample ID: 410-185105-7

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

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

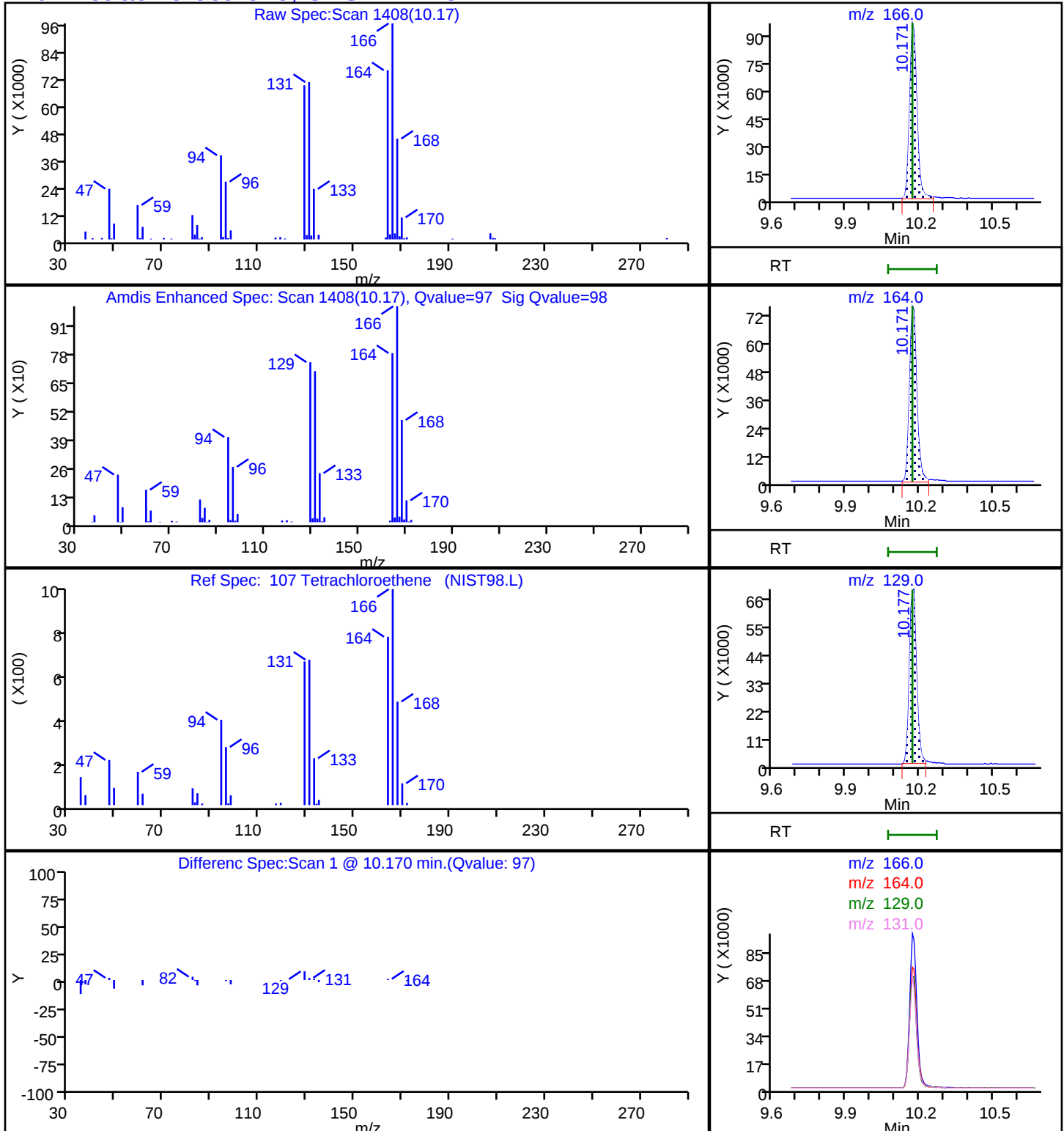
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

107 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X47.D

Injection Date: 28-Aug-2024 02:28:30

Instrument ID: 19094

Lims ID: 410-185105-A-7

Lab Sample ID: 410-185105-7

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

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

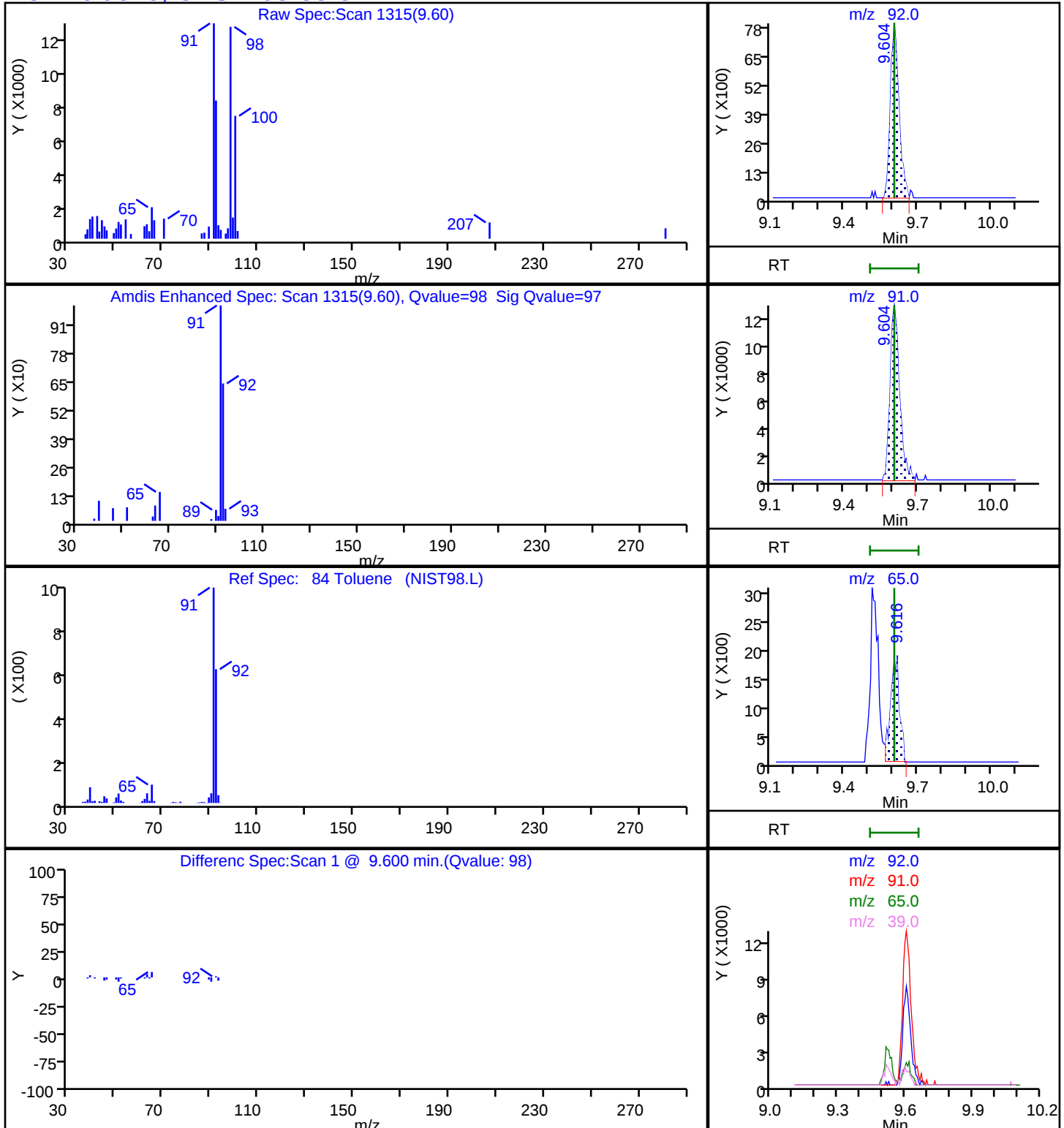
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

84 Toluene, CAS: 108-88-3

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X47.D

Injection Date: 28-Aug-2024 02:28:30

Instrument ID: 19094

Lims ID: 410-185105-A-7

Lab Sample ID: 410-185105-7

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

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

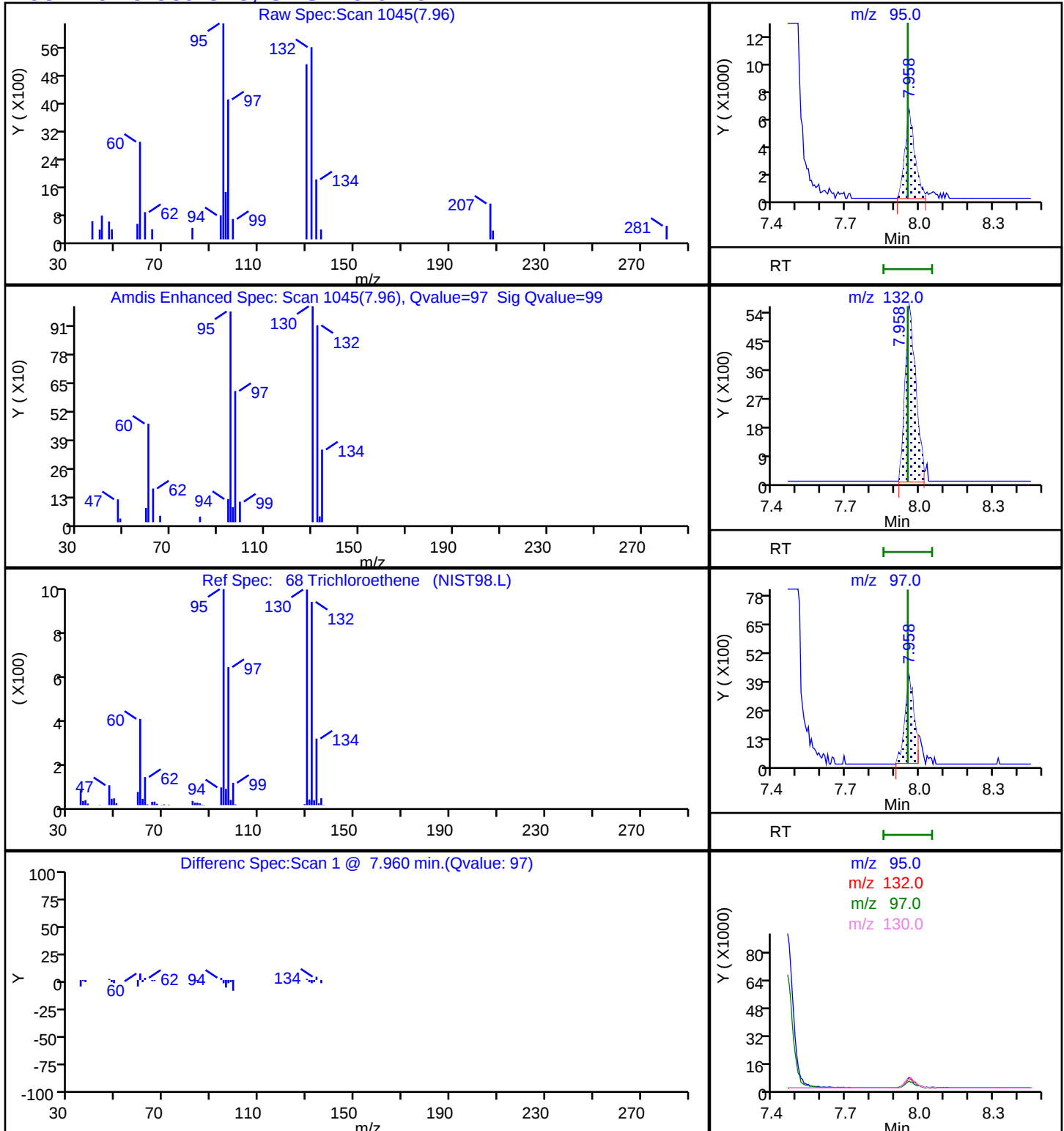
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

68 Trichloroethene, CAS: 79-01-6

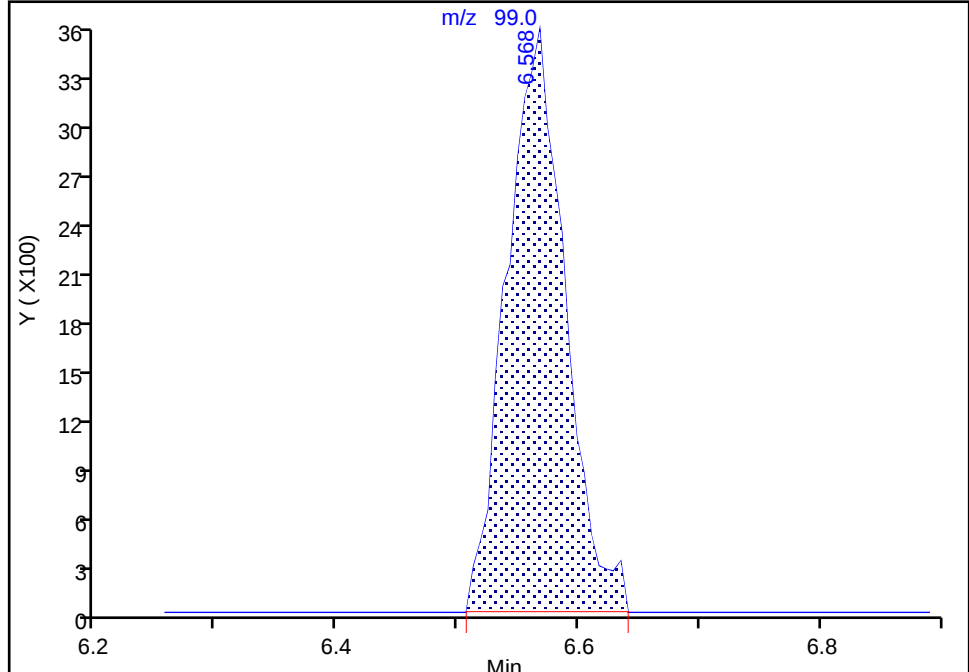
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X47.D
Injection Date: 28-Aug-2024 02:28:30 Instrument ID: 19094
Lims ID: 410-185105-A-7 Lab Sample ID: 410-185105-7
Client ID: HD-COD-SW-16-0/1-0
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

53 1,1,1-Trichloroethane, CAS: 71-55-6
Signal: 2

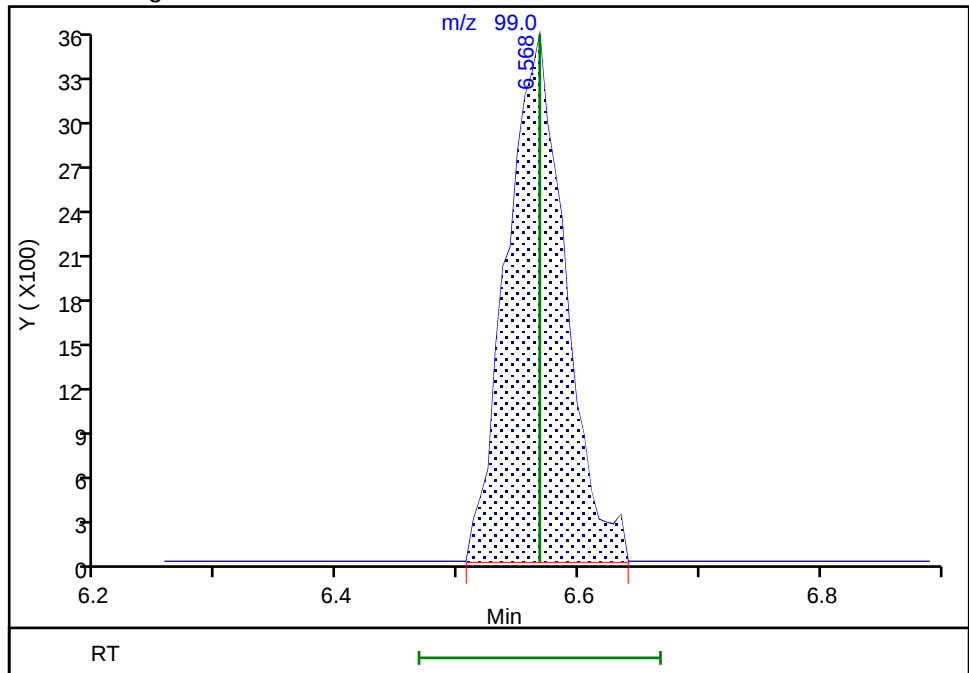
RT: 6.57
Area: 11991
Amount: 0.170275
Amount Units: ug/l

Processing Integration Results



RT: 6.57
Area: 11991
Amount: 0.170275
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 28-Aug-2024 14:10:54 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-8

Matrix: Water

Lab File ID: HG27X52.D

Analysis Method: 8260D

Date Collected: 08/20/2024 10:15

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

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	10		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	1.8		0.50	0.10
75-35-4	1,1-Dichloroethene	0.80		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	^c cn	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	0.15	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	2.5		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.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-8

Matrix: Water

Lab File ID: HG27X52.D

Analysis Method: 8260D

Date Collected: 08/20/2024 10:15

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

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	4.2		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)	95		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		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\20240827-123379.b\HG27X52.D
 Lims ID: 410-185105-A-8
 Client ID: HD-COD-SW-17-0/1-0
 Sample Type: Client
 Inject. Date: 28-Aug-2024 04:12:30 ALS Bottle#: 22 Worklist Smp#: 23
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0123379-023
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Aug-2024 02:32:04 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 15:41:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.062				ND	7
6 Vinyl chloride	62		2.172				ND	7
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.544				ND	
17 1,1-Dichloroethene	96	3.336	3.343	-0.006	97	44256	0.8019	
19 Acetone	43		3.361				ND	
23 Carbon disulfide	76		3.629				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	3.940	3.952	-0.012	27	171521	50.0	
27 Methylene Chloride	84	3.952	3.952	0.000	32	3049	0.0444	
32 Methyl tert-butyl ether	73	4.324	4.336	-0.012	54	3955	0.0261	
33 trans-1,2-Dichloroethene	96	4.361	4.355	0.007	96	2949	0.0457	
36 1,1-Dichloroethane	63	5.007	5.007	0.000	96	224512	1.82	
41 2-Butanone (MEK)	43		5.818				ND	
42 cis-1,2-Dichloroethene	96	5.848	5.848	0.000	81	187143	2.55	
48 Chlorobromomethane	128		6.183				ND	
50 Chloroform	83	6.336	6.336	0.000	93	18056	0.1475	
\$ 52 Dibromofluoromethane (Surr)	113	6.555	6.555	0.000	93	730359	9.76	
53 1,1,1-Trichloroethane	97	6.561	6.567	-0.006	99	1052414	10.1	
56 Carbon tetrachloride	117	6.793	6.787	0.006	6	3419	0.0376	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.013	0.006	49	146006	9.55	
59 Benzene	78		7.049				ND	7
60 1,2-Dichloroethane	62		7.122				ND	
* 64 Fluorobenzene (IS)	96	7.458	7.464	-0.006	99	3057294	10.0	
68 Trichloroethene	95	7.945	7.951	-0.006	99	310432	4.19	
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	
80 cis-1,3-Dichloropropene	75		9.201				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.378				ND	
\$ 83 Toluene-d8 (Surr)	98	9.518	9.524	-0.006	94	2989697	9.98	
84 Toluene	92	9.604	9.603	0.001	98	6441	0.0354	
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.171	10.170	0.000	97	12197803	144.2	E
109 2-Hexanone	43		10.305				ND	
111 Chlorodibromomethane	129		10.469				ND	7
112 Ethylene Dibromide	107		10.585				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	87	2302753	10.0	
115 Chlorobenzene	112		11.048				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	7
117 Ethylbenzene	91		11.140				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	7
120 o-Xylene	106		11.591				ND	7
121 Styrene	104		11.609				ND	7
122 Bromoform	173		11.768				ND	7
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	90	1094091	9.78	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	96	1219658	10.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00013

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 28-Aug-2024 15:41:11

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X52.D

Injection Date: 28-Aug-2024 04:12:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-185105-A-8

Lab Sample ID: 410-185105-8

Worklist Smp#: 23

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

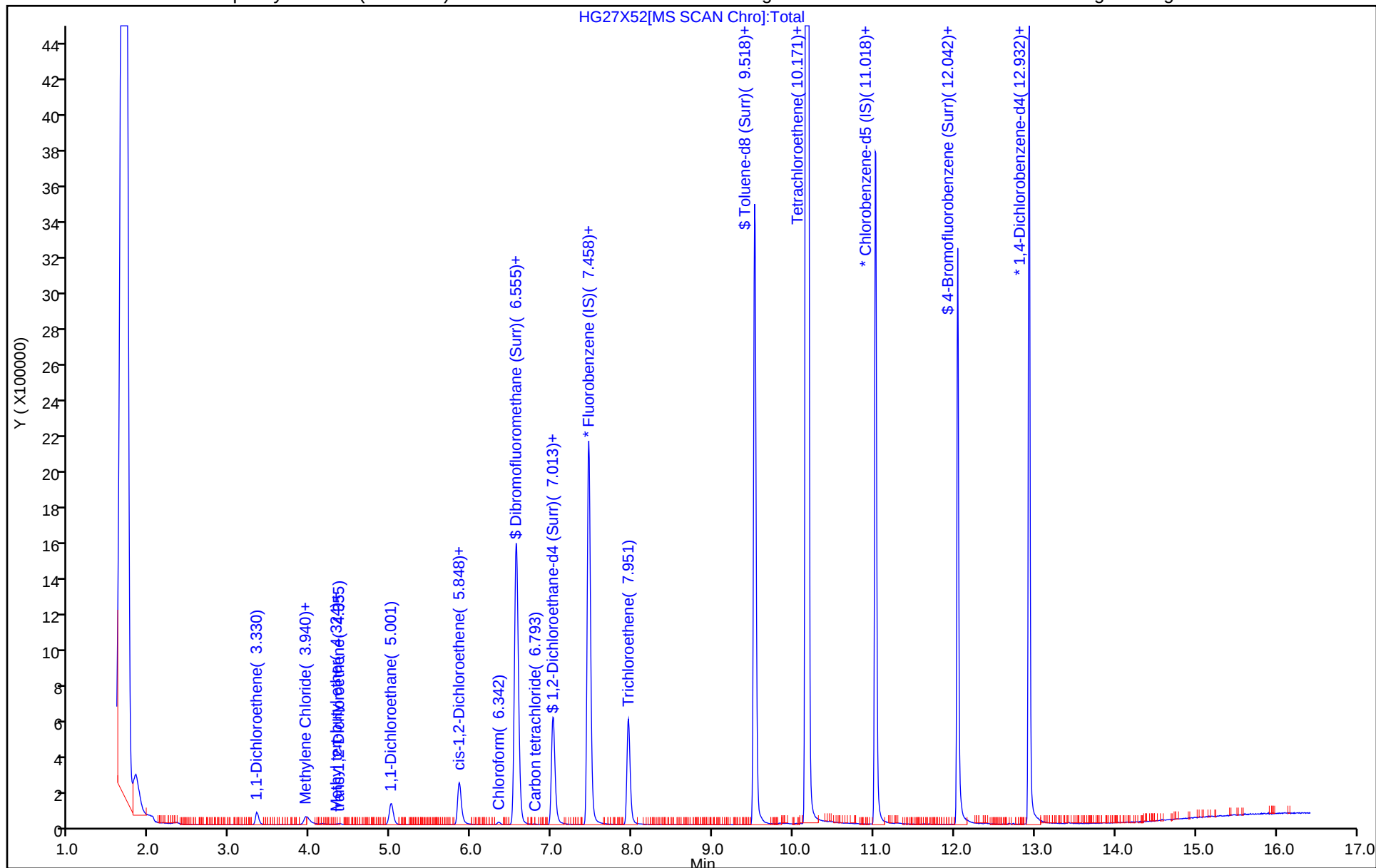
ALS Bottle#: 22

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
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X52.D
Lims ID: 410-185105-A-8
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 28-Aug-2024 04:12:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0123379-023
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Aug-2024 02:32:04 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 15:41:11

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.76	97.55
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.55	95.47
\$ 83 Toluene-d8 (Surr)	10.0	9.98	99.83
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.78	97.83

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X52.D

Injection Date: 28-Aug-2024 04:12:30

Instrument ID: 19094

Lims ID: 410-185105-A-8

Lab Sample ID: 410-185105-8

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

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

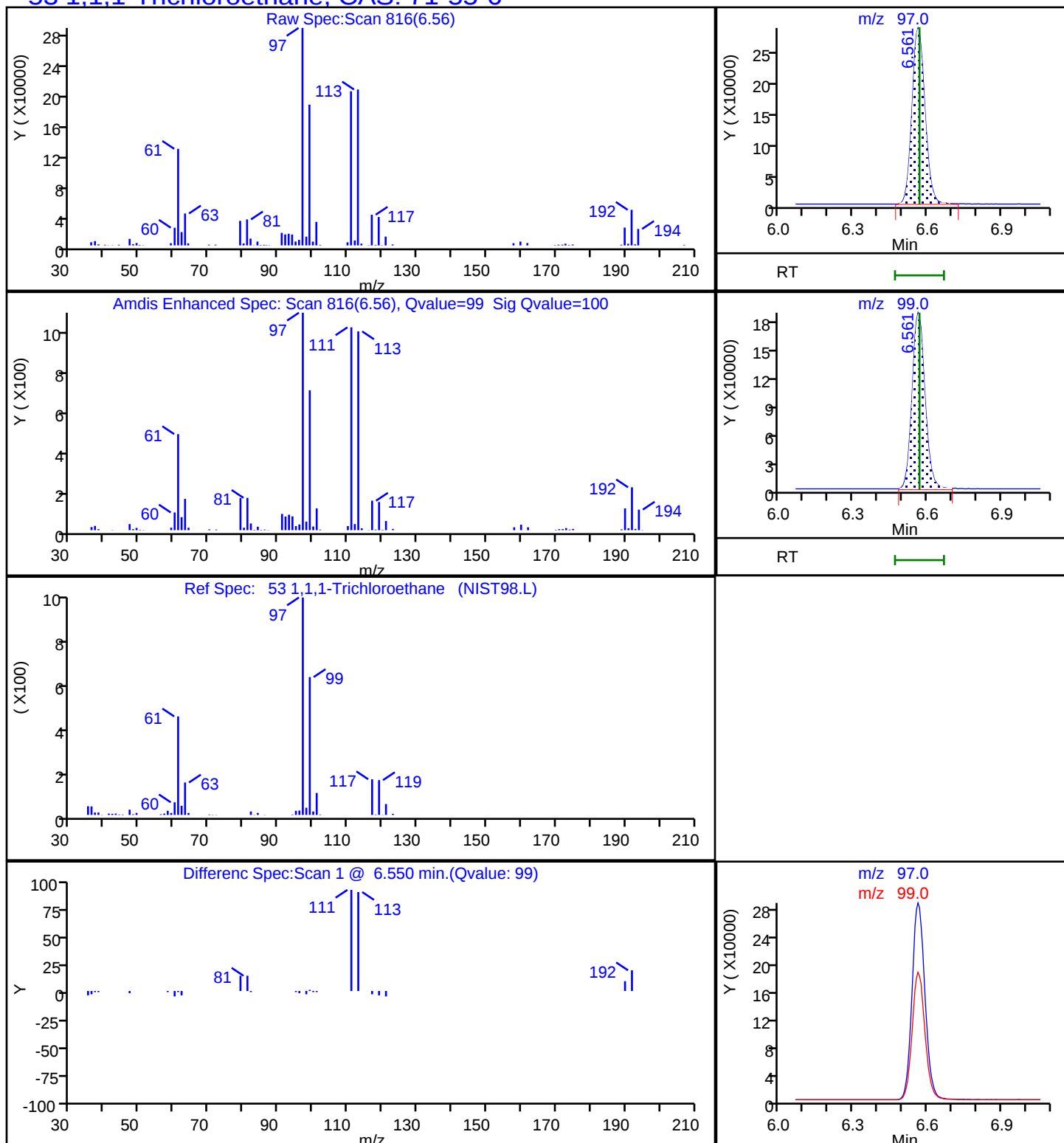
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X52.D

Injection Date: 28-Aug-2024 04:12:30

Instrument ID: 19094

Lims ID: 410-185105-A-8

Lab Sample ID: 410-185105-8

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

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

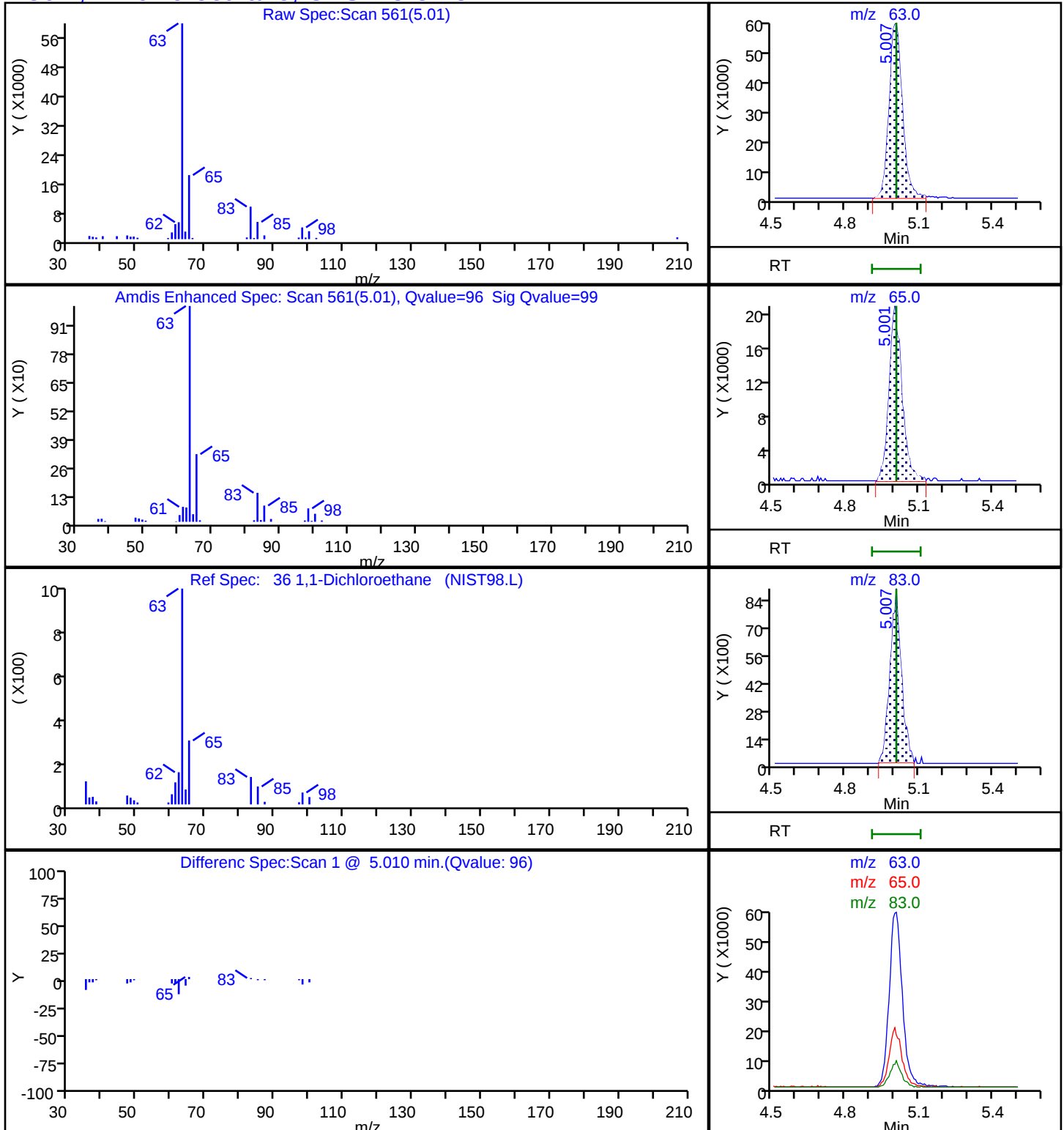
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X52.D

Injection Date: 28-Aug-2024 04:12:30

Instrument ID: 19094

Lims ID: 410-185105-A-8

Lab Sample ID: 410-185105-8

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

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

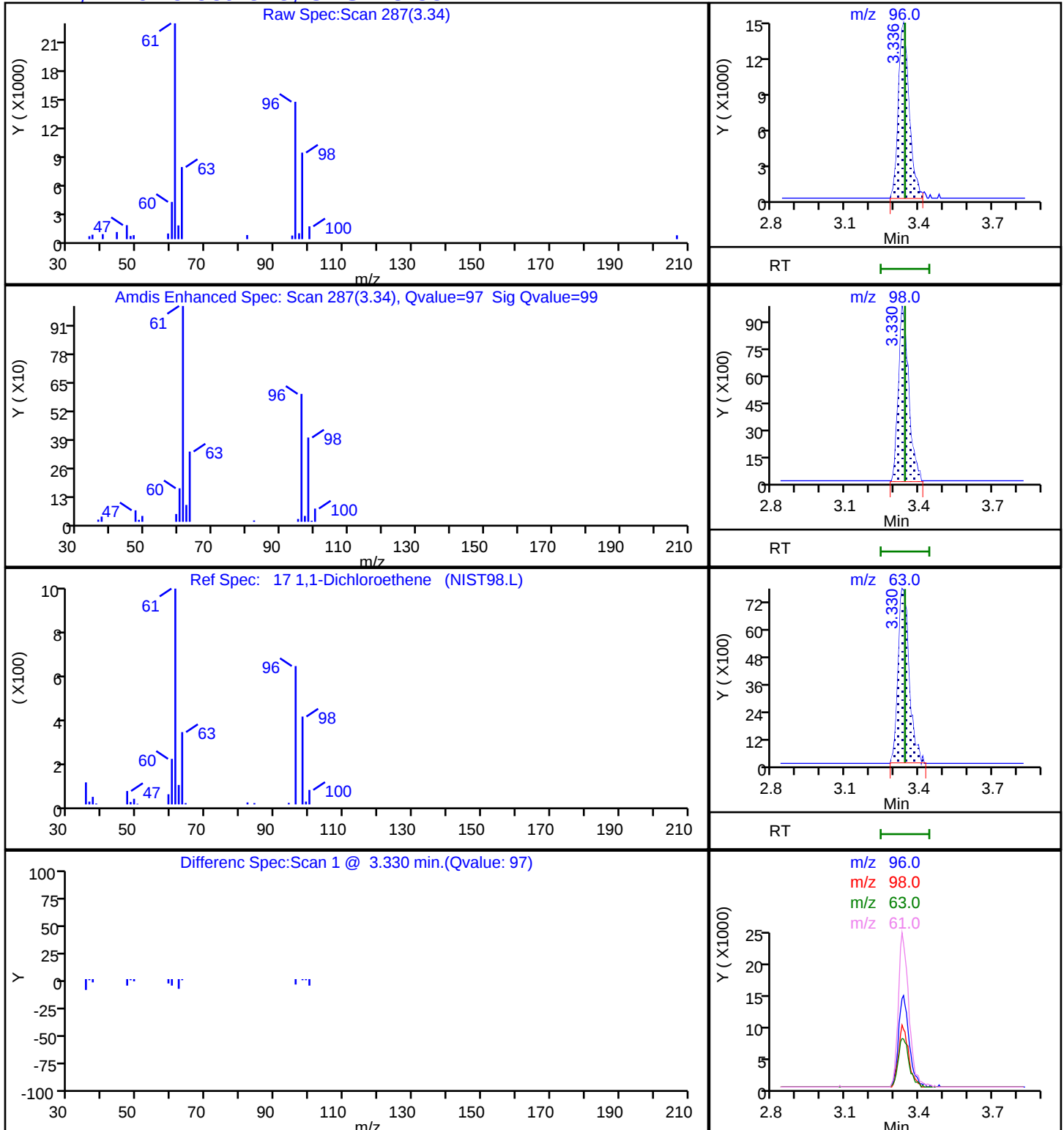
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X52.D

Injection Date: 28-Aug-2024 04:12:30

Instrument ID: 19094

Lims ID: 410-185105-A-8

Lab Sample ID: 410-185105-8

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

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

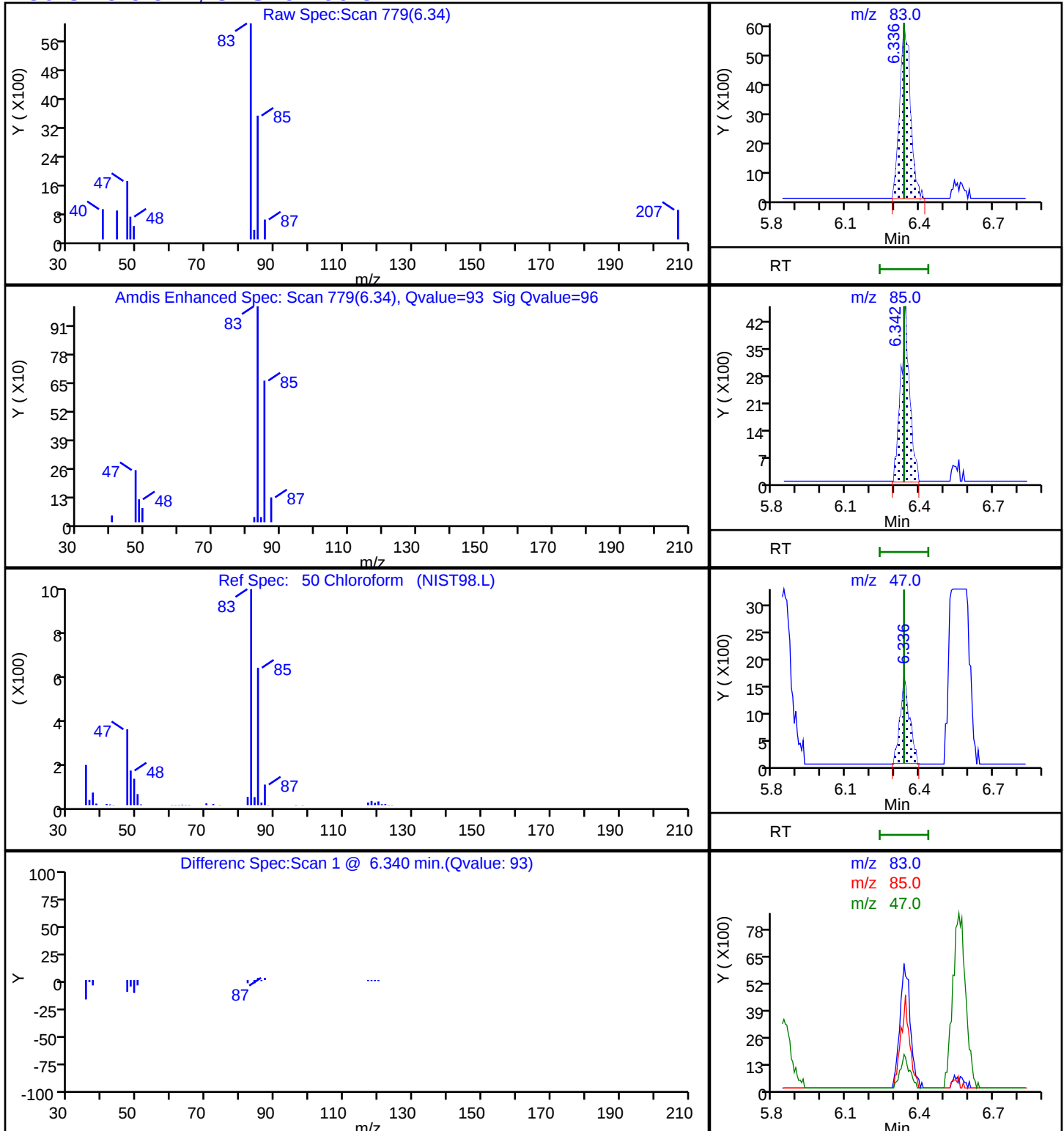
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X52.D

Injection Date: 28-Aug-2024 04:12:30

Instrument ID: 19094

Lims ID: 410-185105-A-8

Lab Sample ID: 410-185105-8

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

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

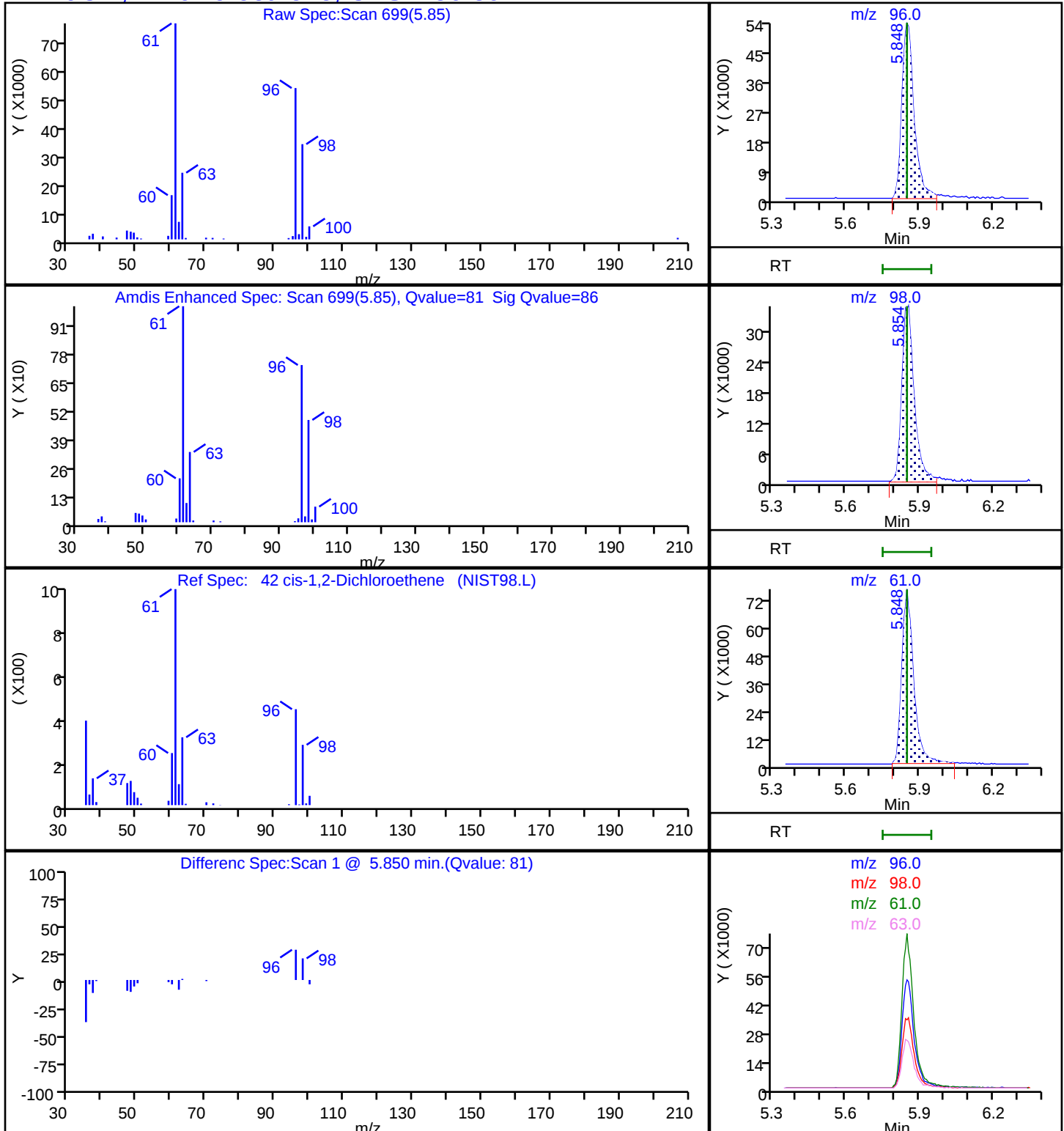
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X52.D

Injection Date: 28-Aug-2024 04:12:30

Instrument ID: 19094

Lims ID: 410-185105-A-8

Lab Sample ID: 410-185105-8

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

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

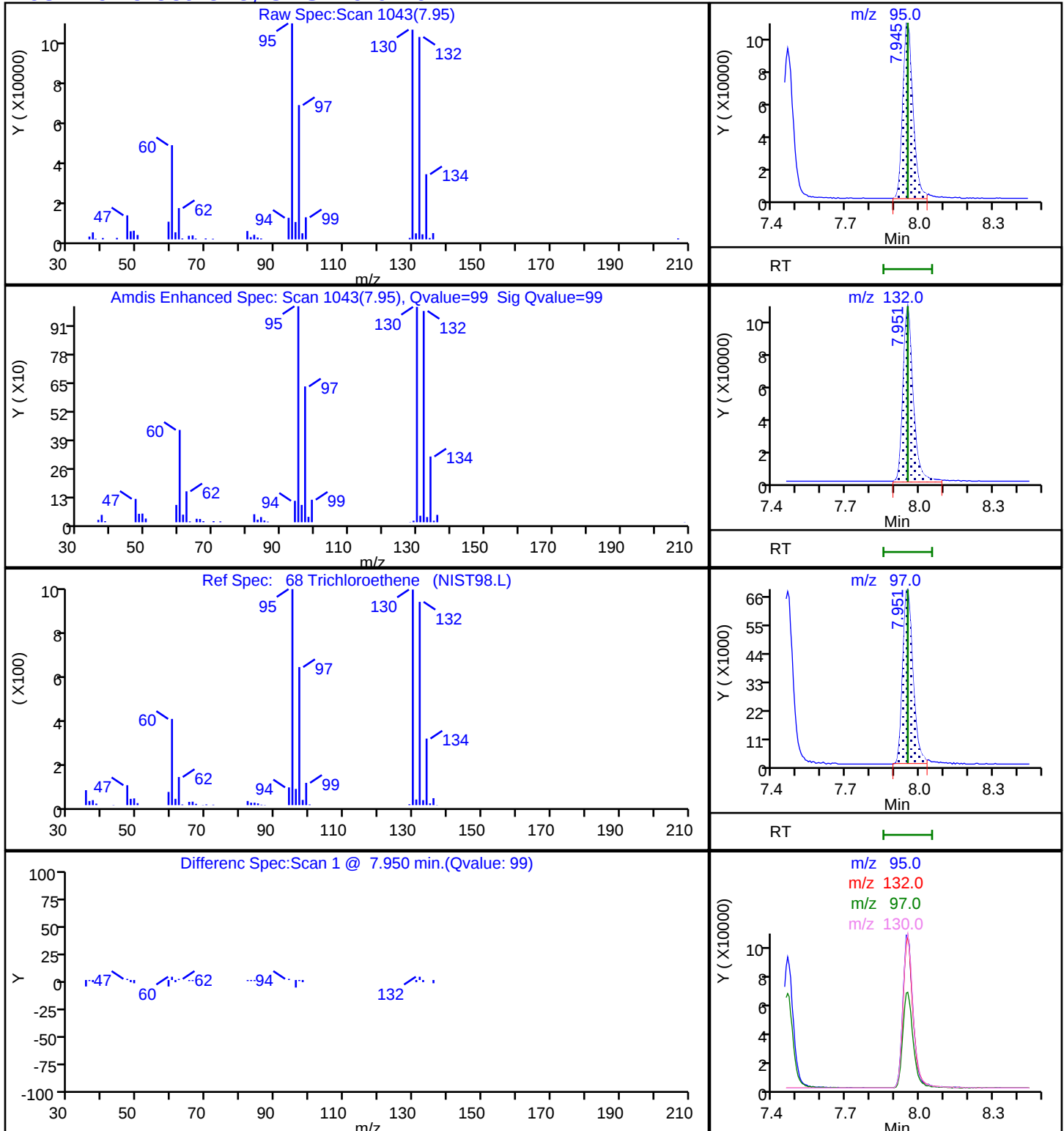
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

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.: 410-185105-1

SDG No. :

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

Lab Sample ID: 410-185105-8 DL

Matrix: Water

Lab File ID: HG27X53.D

Analysis Method: 8260D

Date Collected: 08/20/2024 10:15

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 04:33

Soil Aliquot Vol:

Dilution Factor: 10

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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	120		5.0	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		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\20240827-123379.b\HG27X53.D
 Lims ID: 410-185105-B-8 DL
 Client ID: HD-COD-SW-17-0/1-0
 Sample Type: Client
 Inject. Date: 28-Aug-2024 04:33:30 ALS Bottle#: 23 Worklist Smp#: 24
 Purge Vol: 25.000 mL Dil. Factor: 10.0000
 Sample Info: 410-0123379-024
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Aug-2024 13:13:37 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1632

First Level Reviewer: DVW2

Date: 28-Aug-2024 13:11:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.062				ND	7
6 Vinyl chloride	62		2.172				ND	7
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.544				ND	
17 1,1-Dichloroethene	96	3.330	3.343	-0.012	94	3512	0.0633	
19 Acetone	43		3.361				ND	7
23 Carbon disulfide	76		3.629				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	3.952	3.952	0.000	26	166171	50.0	
27 Methylene Chloride	84	3.946	3.952	-0.006	33	2595	0.0376	
32 Methyl tert-butyl ether	73		4.336				ND	
33 trans-1,2-Dichloroethene	96		4.355				ND	
36 1,1-Dichloroethane	63	5.013	5.007	0.006	96	20301	0.1638	
41 2-Butanone (MEK)	43		5.818				ND	
42 cis-1,2-Dichloroethene	96	5.848	5.848	0.000	81	17978	0.2434	
48 Chlorobromomethane	128		6.183				ND	
50 Chloroform	83		6.336				ND	7
\$ 52 Dibromofluoromethane (Surr)	113	6.549	6.555	-0.006	93	736428	9.78	
53 1,1,1-Trichloroethane	97		6.567				ND	U
56 Carbon tetrachloride	117		6.787				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.013	0.000	49	146127	9.50	
59 Benzene	78		7.049				ND	
60 1,2-Dichloroethane	62		7.122				ND	
* 64 Fluorobenzene (IS)	96	7.458	7.464	-0.006	98	3073638	10.0	
68 Trichloroethene	95	7.958	7.951	0.007	96	27601	0.3702	
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	
80 cis-1,3-Dichloropropene	75		9.201				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.378				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.518	9.524	-0.006	94	3030806	10.3	
84 Toluene	92		9.603				ND	7
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.171	10.170	0.001	98	985125	11.9	
109 2-Hexanone	43		10.305				ND	
111 Chlorodibromomethane	129		10.469				ND	7
112 Ethylene Dibromide	107		10.585				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	87	2253104	10.0	
115 Chlorobenzene	112		11.048				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	
120 o-Xylene	106		11.591				ND	
121 Styrene	104		11.609				ND	
122 Bromoform	173		11.768				ND	7
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	90	1089079	9.95	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	96	1183239	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_LLcentISS_00013

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 28-Aug-2024 13:14:34

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X53.D

Injection Date: 28-Aug-2024 04:33:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-185105-B-8 DL

Lab Sample ID: 410-185105-8

Worklist Smp#: 24

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

Purge Vol: 25.000 mL

Dil. Factor: 10.0000

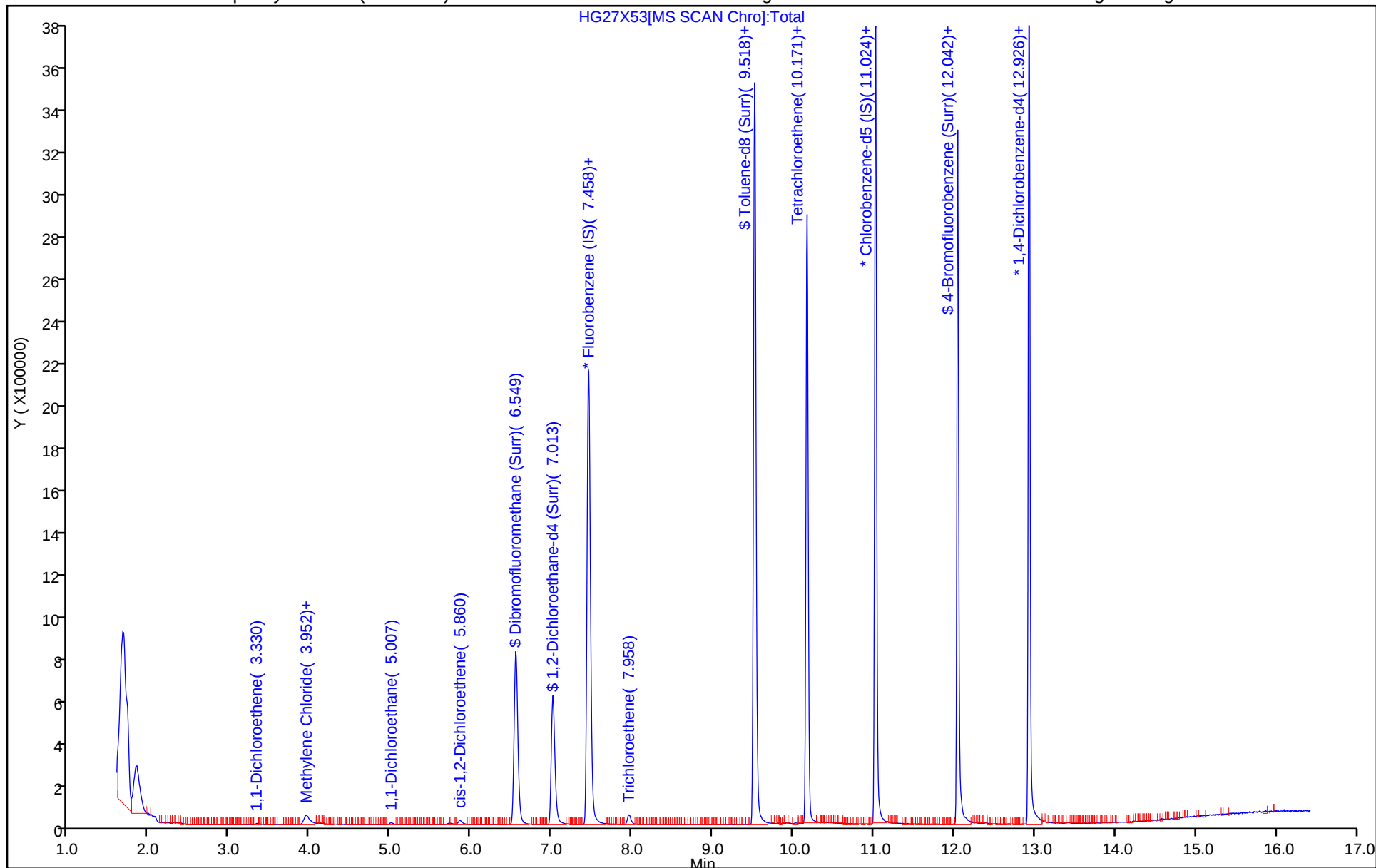
ALS Bottle#: 23

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\20240827-123379.b\HG27X53.D
Lims ID: 410-185105-B-8 DL
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 28-Aug-2024 04:33:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0123379-024
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Aug-2024 13:13:37 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: DVW2

Date: 28-Aug-2024 13:11:39

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.78	97.84
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.50	95.04
\$ 83 Toluene-d8 (Surr)	10.0	10.3	103.43
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.95	99.53

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X53.D

Injection Date: 28-Aug-2024 04:33:30

Instrument ID: 19094

Lims ID: 410-185105-B-8 DL

Lab Sample ID: 410-185105-8

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

Operator ID: gaw91131

ALS Bottle#: 23

Worklist Smp#: 24

Purge Vol: 25.000 mL

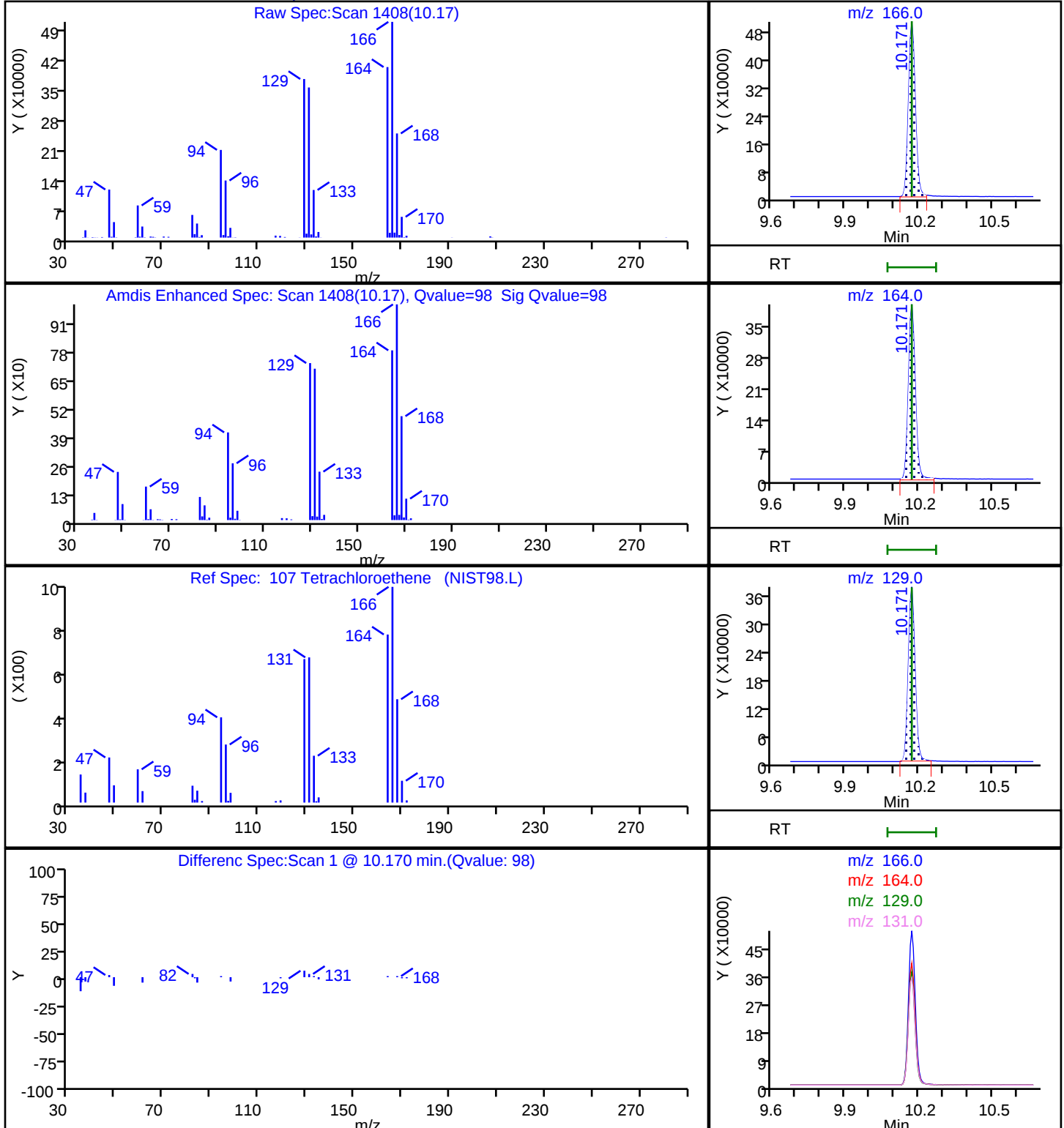
Dil. Factor: 10.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

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.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-9

Matrix: Water

Lab File ID: HG27X48.D

Analysis Method: 8260D

Date Collected: 08/20/2024 11:02

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 02:49

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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

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	^c cn	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	0.49	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	2.7		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-26-0/1-0 Lab Sample ID: 410-185105-9

Matrix: Water Lab File ID: HG27X48.D

Analysis Method: 8260D Date Collected: 08/20/2024 11:02

Sample wt/vol: 25 (mL) Date Analyzed: 08/28/2024 02:49

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.: 545038 Units: ug/L

Preparation Batch No.: _____ Instrument ID: Agilent GC/MS - HP30

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	0.11	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)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		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\20240827-123379.b\HG27X48.D
 Lims ID: 410-185105-A-9
 Client ID: HD-COD-SW-26-0/1-0
 Sample Type: Client
 Inject. Date: 28-Aug-2024 02:49:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0123379-019
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Aug-2024 01:31:36 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 14:39:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.062				ND	7
6 Vinyl chloride	62		2.172				ND	7
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.544				ND	
17 1,1-Dichloroethene	96	3.349	3.343	0.007	91	5147	0.0911	
19 Acetone	43		3.361				ND	7
23 Carbon disulfide	76		3.629				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	3.958	3.952	0.006	26	179116	50.0	
27 Methylene Chloride	84		3.952				ND	
32 Methyl tert-butyl ether	73		4.336				ND	
33 trans-1,2-Dichloroethene	96		4.355				ND	
36 1,1-Dichloroethane	63		5.007				ND	7
41 2-Butanone (MEK)	43		5.818				ND	
42 cis-1,2-Dichloroethene	96	5.873	5.848	0.025	76	3145	0.0418	
48 Chlorobromomethane	128		6.183				ND	
50 Chloroform	83	6.342	6.336	0.006	94	61375	0.4896	
\$ 52 Dibromofluoromethane (Surr)	113	6.555	6.555	0.000	93	745007	9.72	
53 1,1,1-Trichloroethane	97		6.567				ND	7
56 Carbon tetrachloride	117		6.787				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.013	0.006	48	153072	9.77	
59 Benzene	78		7.049				ND	7
60 1,2-Dichloroethane	62		7.122				ND	7
* 64 Fluorobenzene (IS)	96	7.464	7.464	0.000	99	3131365	10.0	
68 Trichloroethene	95	7.964	7.951	0.013	95	8441	0.1111	
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	7
80 cis-1,3-Dichloropropene	75		9.201				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.378				ND	
\$ 83 Toluene-d8 (Surr)	98	9.524	9.524	0.000	93	3059804	10.2	
84 Toluene	92	9.604	9.603	0.001	97	8859	0.0487	
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.177	10.170	0.007	97	225575	2.67	
109 2-Hexanone	43		10.305				ND	
111 Chlorodibromomethane	129		10.469				ND	
112 Ethylene Dibromide	107		10.585				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	87	2303235	10.0	
115 Chlorobenzene	112		11.048				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	7
120 o-Xylene	106		11.591				ND	7
121 Styrene	104		11.609				ND	7
122 Bromoform	173		11.768				ND	7
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	90	1111158	9.93	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	95	1231847	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00013

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 28-Aug-2024 14:39:42

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X48.D

Injection Date: 28-Aug-2024 02:49:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-185105-A-9

Lab Sample ID: 410-185105-9

Worklist Smp#: 19

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

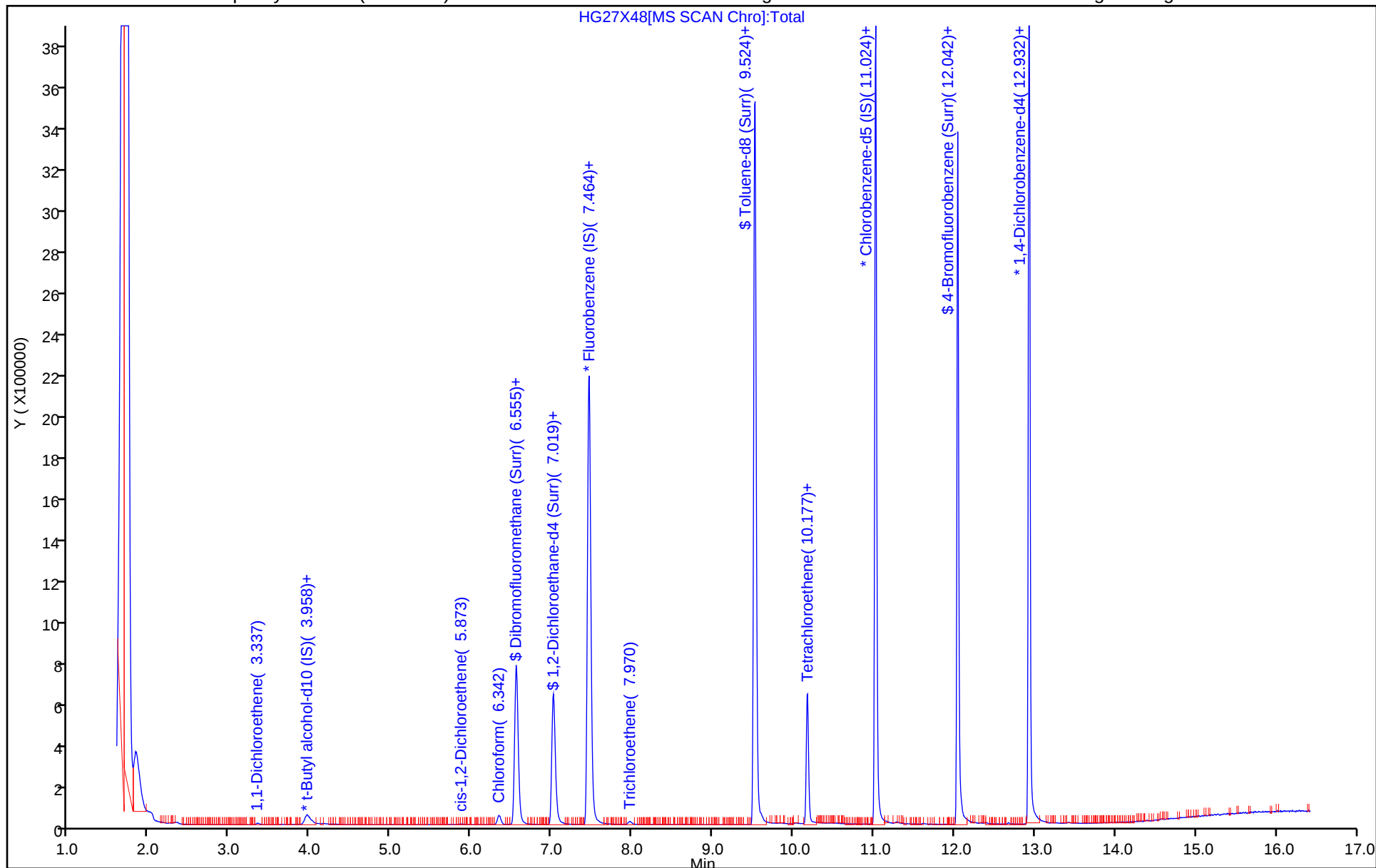
ALS Bottle#: 18

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\20240827-123379.b\HG27X48.D
Lims ID: 410-185105-A-9
Client ID: HD-COD-SW-26-0/1-0
Sample Type: Client
Inject. Date: 28-Aug-2024 02:49:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0123379-019
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Aug-2024 01:31:36 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 14:39:41

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.72	97.15
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.77	97.72
\$ 83 Toluene-d8 (Surr)	10.0	10.2	102.15
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.93	99.34

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X48.D

Injection Date: 28-Aug-2024 02:49:30

Instrument ID: 19094

Lims ID: 410-185105-A-9

Lab Sample ID: 410-185105-9

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

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

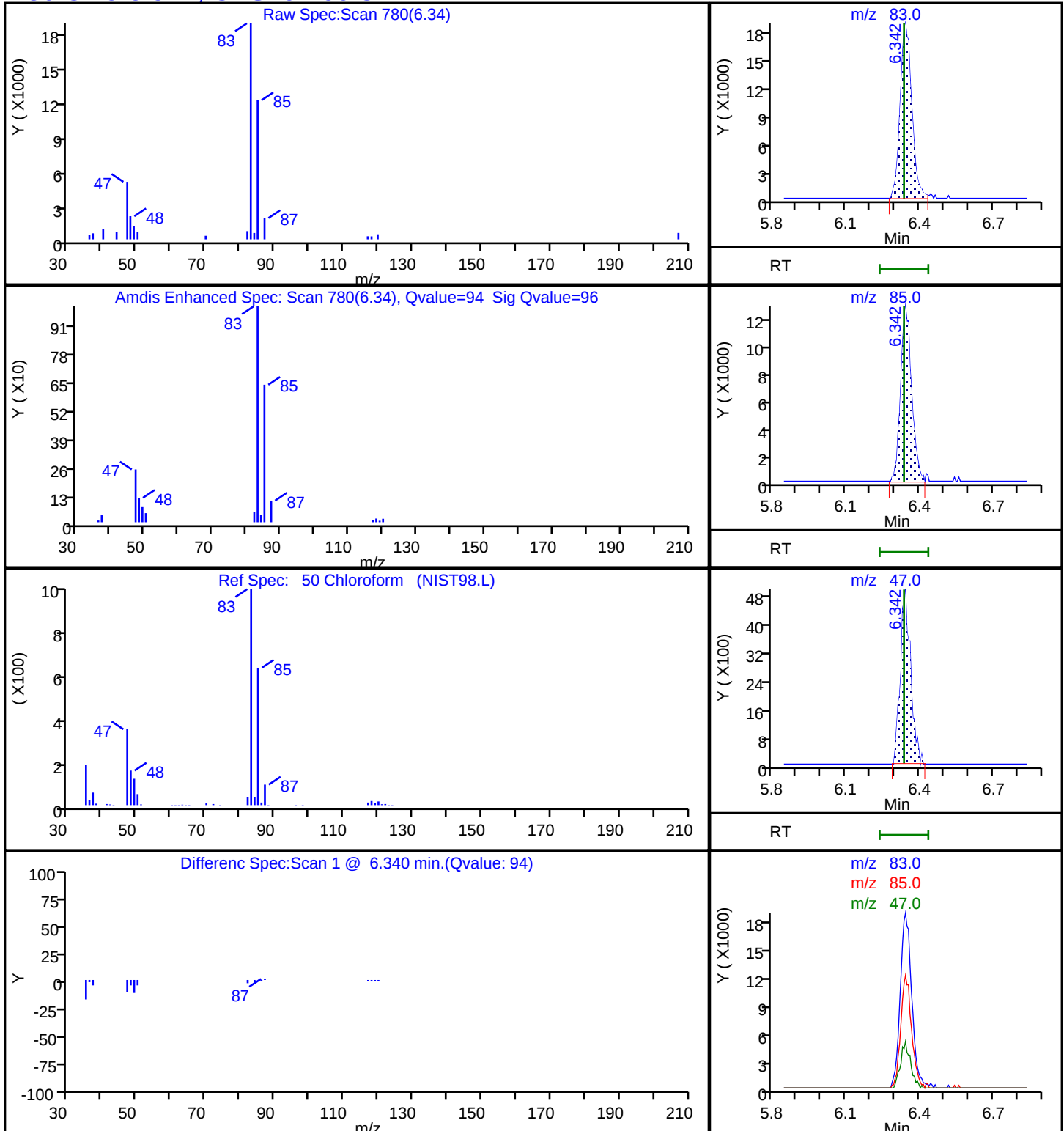
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X48.D

Injection Date: 28-Aug-2024 02:49:30

Instrument ID: 19094

Lims ID: 410-185105-A-9

Lab Sample ID: 410-185105-9

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

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

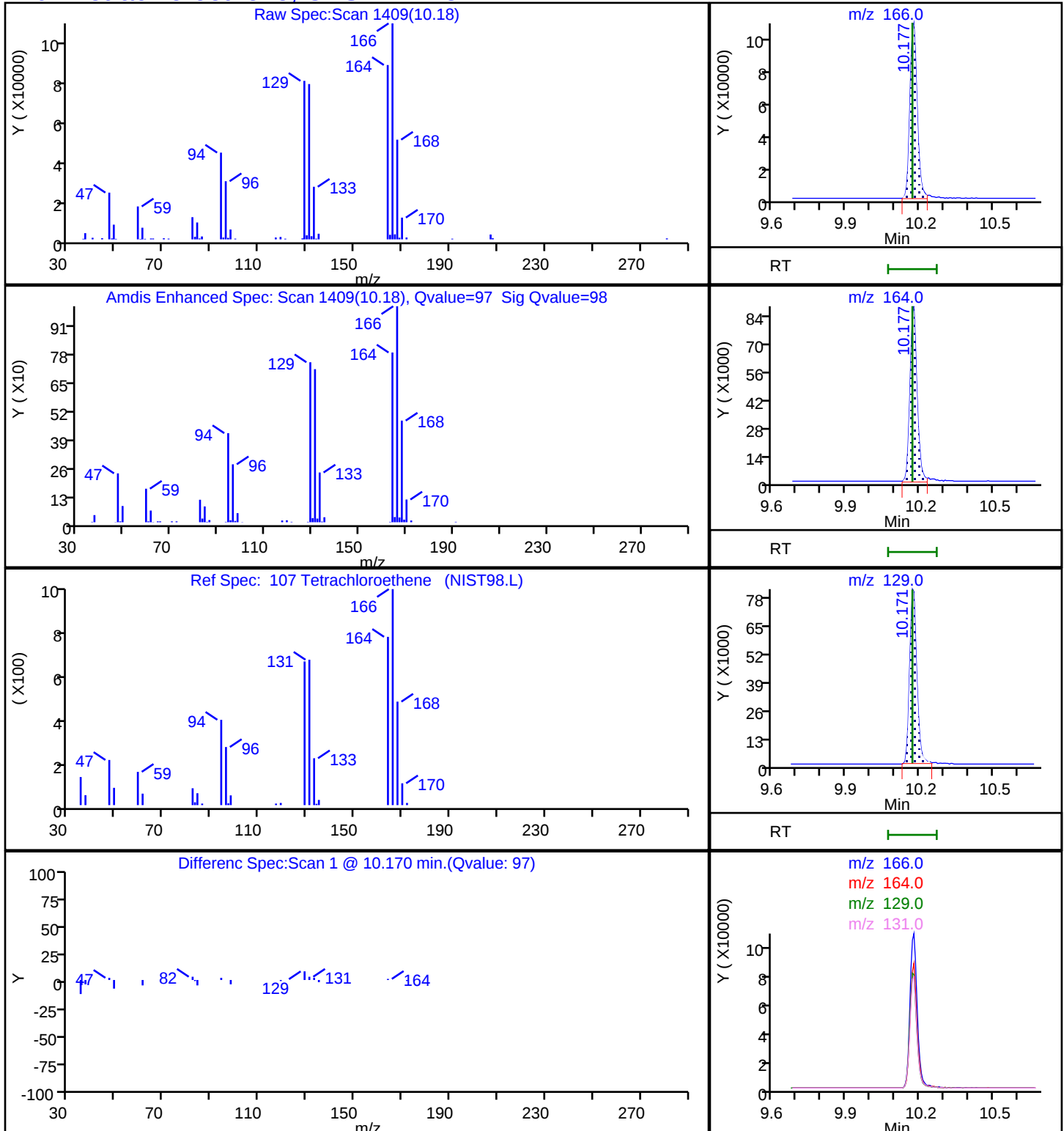
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

107 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X48.D

Injection Date: 28-Aug-2024 02:49:30

Instrument ID: 19094

Lims ID: 410-185105-A-9

Lab Sample ID: 410-185105-9

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

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

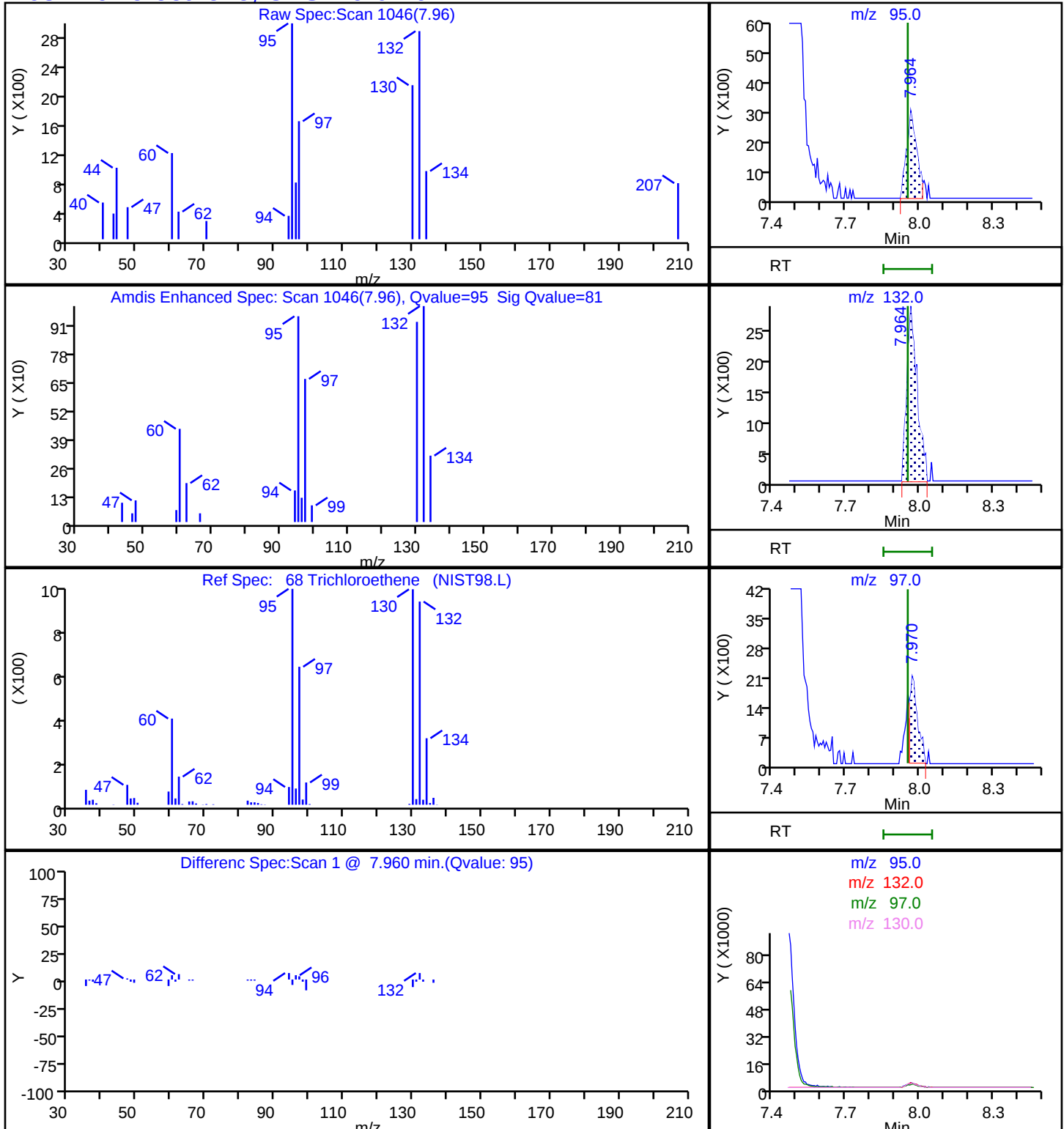
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-10

Matrix: Water

Lab File ID: HG27X49.D

Analysis Method: 8260D

Date Collected: 08/20/2024 11:37

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

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	1.5	J	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	^c cn	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	0.11	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.096	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
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-10

Matrix: Water

Lab File ID: HG27X49.D

Analysis Method: 8260D

Date Collected: 08/20/2024 11:37

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

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	0.13	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)	96		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		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\20240827-123379.b\HG27X49.D
 Lims ID: 410-185105-A-10
 Client ID: HD-COD-SW-27-0/1-0
 Sample Type: Client
 Inject. Date: 28-Aug-2024 03:10:30 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0123379-020
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Aug-2024 14:42:58 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 14:42:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.056	2.062	-0.006	27	5998	0.0614	
6 Vinyl chloride	62		2.172				ND	7
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.544				ND	
17 1,1-Dichloroethene	96		3.343				ND	
19 Acetone	43	3.410	3.361	0.049	73	13870	1.52	
23 Carbon disulfide	76	3.623	3.629	-0.006	98	11820	0.0747	Ma
* 28 t-Butyl alcohol-d10 (IS)	65	3.946	3.952	-0.006	56	171546	50.0	
27 Methylene Chloride	84	3.946	3.952	-0.006	59	3094	0.0448	
32 Methyl tert-butyl ether	73		4.336				ND	
33 trans-1,2-Dichloroethene	96		4.355				ND	
36 1,1-Dichloroethane	63		5.007				ND	7
41 2-Butanone (MEK)	43		5.818				ND	
42 cis-1,2-Dichloroethene	96	5.866	5.848	0.018	74	7062	0.0955	
48 Chlorobromomethane	128		6.183				ND	
50 Chloroform	83	6.342	6.336	0.006	93	13834	0.1124	
\$ 52 Dibromofluoromethane (Surr)	113	6.555	6.555	0.000	93	738489	9.80	
53 1,1,1-Trichloroethane	97		6.567				ND	7
56 Carbon tetrachloride	117		6.787				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.013	0.000	55	148110	9.63	
59 Benzene	78		7.049				ND	7
60 1,2-Dichloroethane	62		7.122				ND	
* 64 Fluorobenzene (IS)	96	7.458	7.464	-0.006	98	3075715	10.0	
68 Trichloroethene	95	7.964	7.951	0.013	94	10061	0.1348	M
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	7
80 cis-1,3-Dichloropropene	75		9.201				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.378				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.518	9.524	-0.006	94	3008829	10.2	
84 Toluene	92	9.597	9.603	-0.006	98	12164	0.0679	
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.177	10.170	0.007	97	13073	0.1571	
109 2-Hexanone	43		10.305				ND	7
111 Chlorodibromomethane	129		10.469				ND	
112 Ethylene Dibromide	107		10.585				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	87	2265960	10.0	
115 Chlorobenzene	112		11.048				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	7
120 o-Xylene	106		11.591				ND	7
121 Styrene	104		11.609				ND	7
122 Bromoform	173		11.768				ND	7
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	90	1074860	9.77	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	95	1195225	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LLcentISS_00013

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 28-Aug-2024 14:42:58

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X49.D

Injection Date: 28-Aug-2024 03:10:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-185105-A-10

Lab Sample ID: 410-185105-10

Worklist Smp#: 20

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

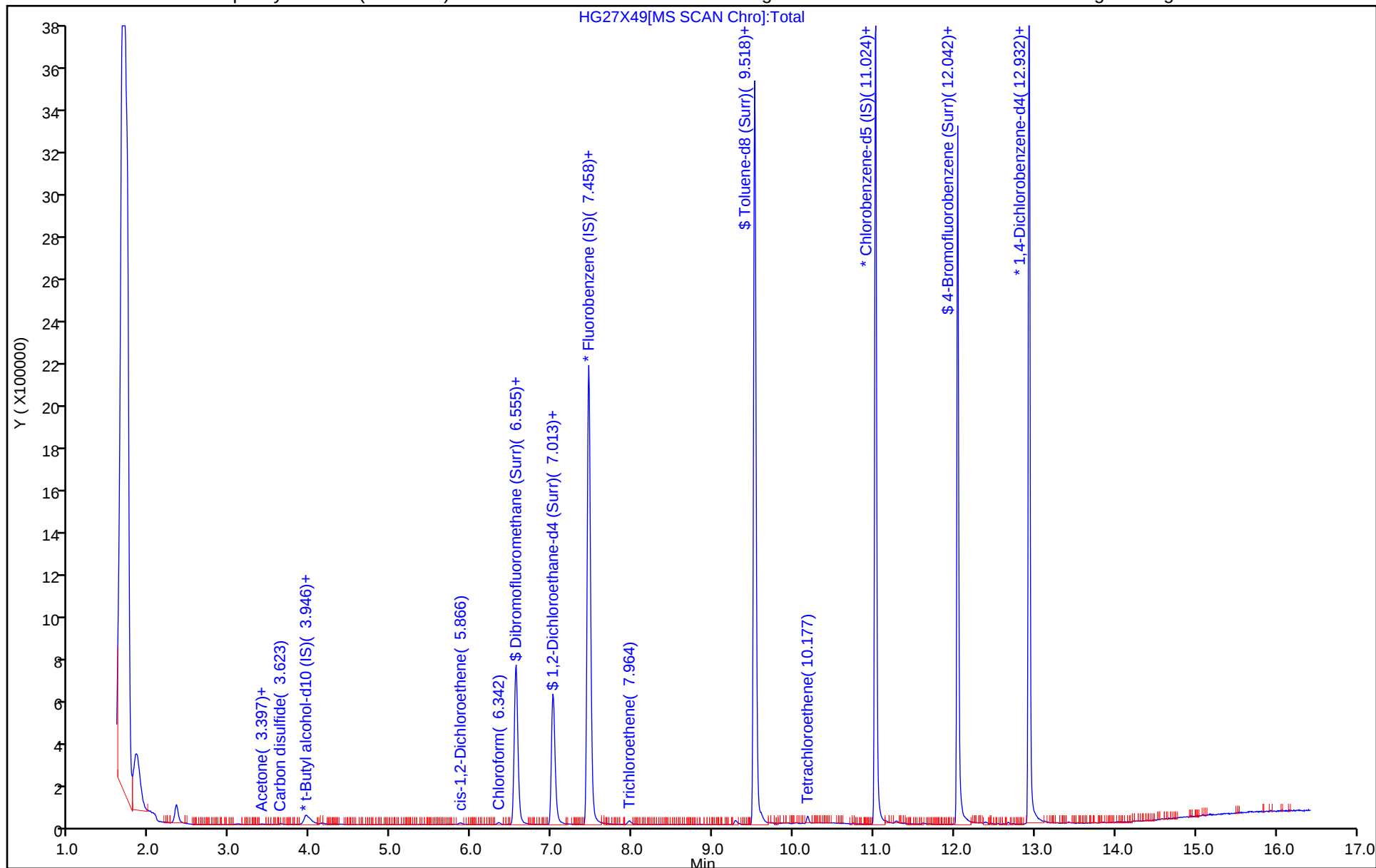
ALS Bottle#: 19

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\20240827-123379.b\HG27X49.D
Lims ID: 410-185105-A-10
Client ID: HD-COD-SW-27-0/1-0
Sample Type: Client
Inject. Date: 28-Aug-2024 03:10:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0123379-020
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Aug-2024 14:42:58 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 14:42:58

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.80	98.05
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.63	96.27
\$ 83 Toluene-d8 (Surr)	10.0	10.2	102.10
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.77	97.67

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X49.D

Injection Date: 28-Aug-2024 03:10:30

Instrument ID: 19094

Lims ID: 410-185105-A-10

Lab Sample ID: 410-185105-10

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

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

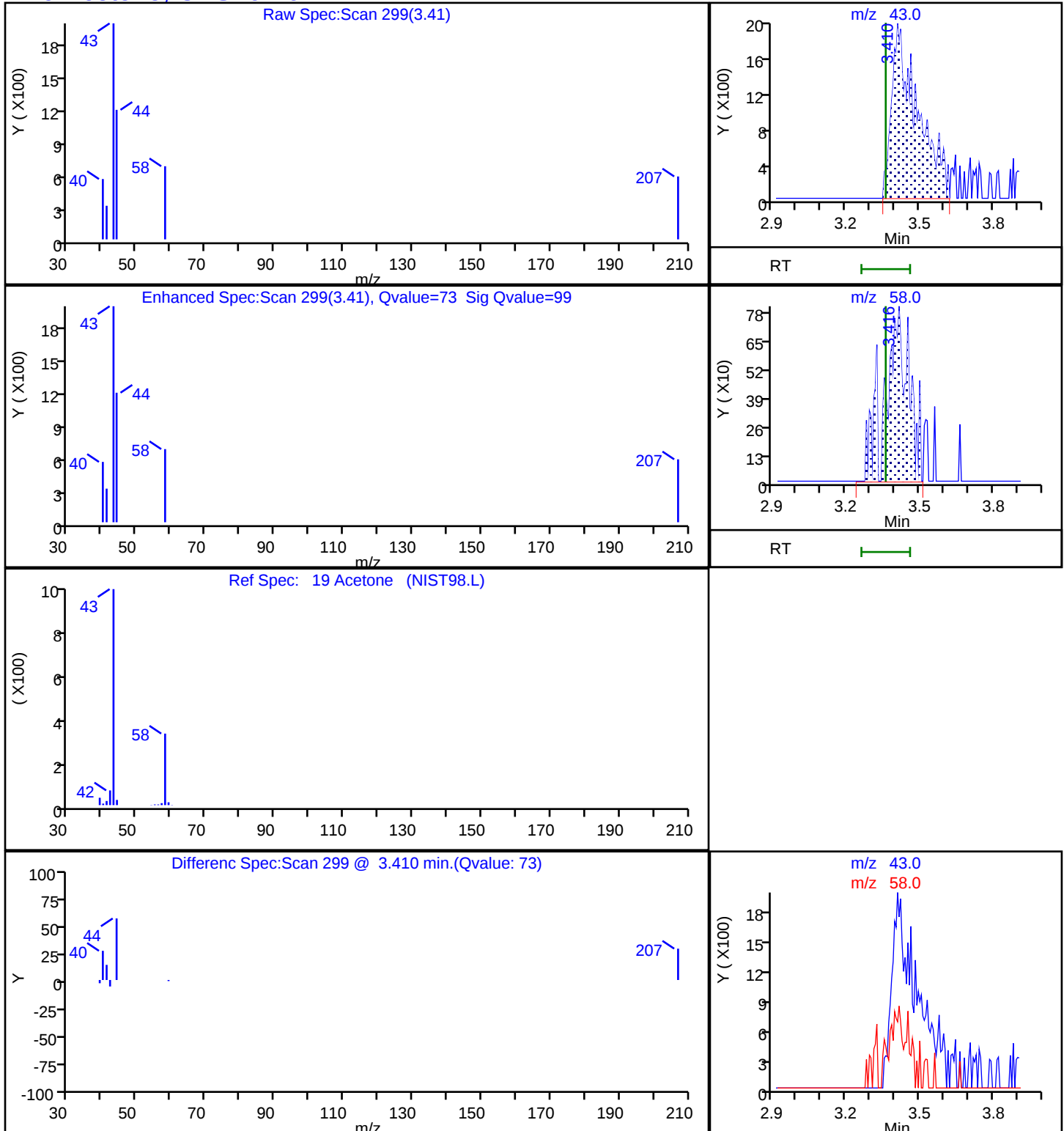
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

19 Acetone, CAS: 67-64-1

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X49.D

Injection Date: 28-Aug-2024 03:10:30

Instrument ID: 19094

Lims ID: 410-185105-A-10

Lab Sample ID: 410-185105-10

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

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

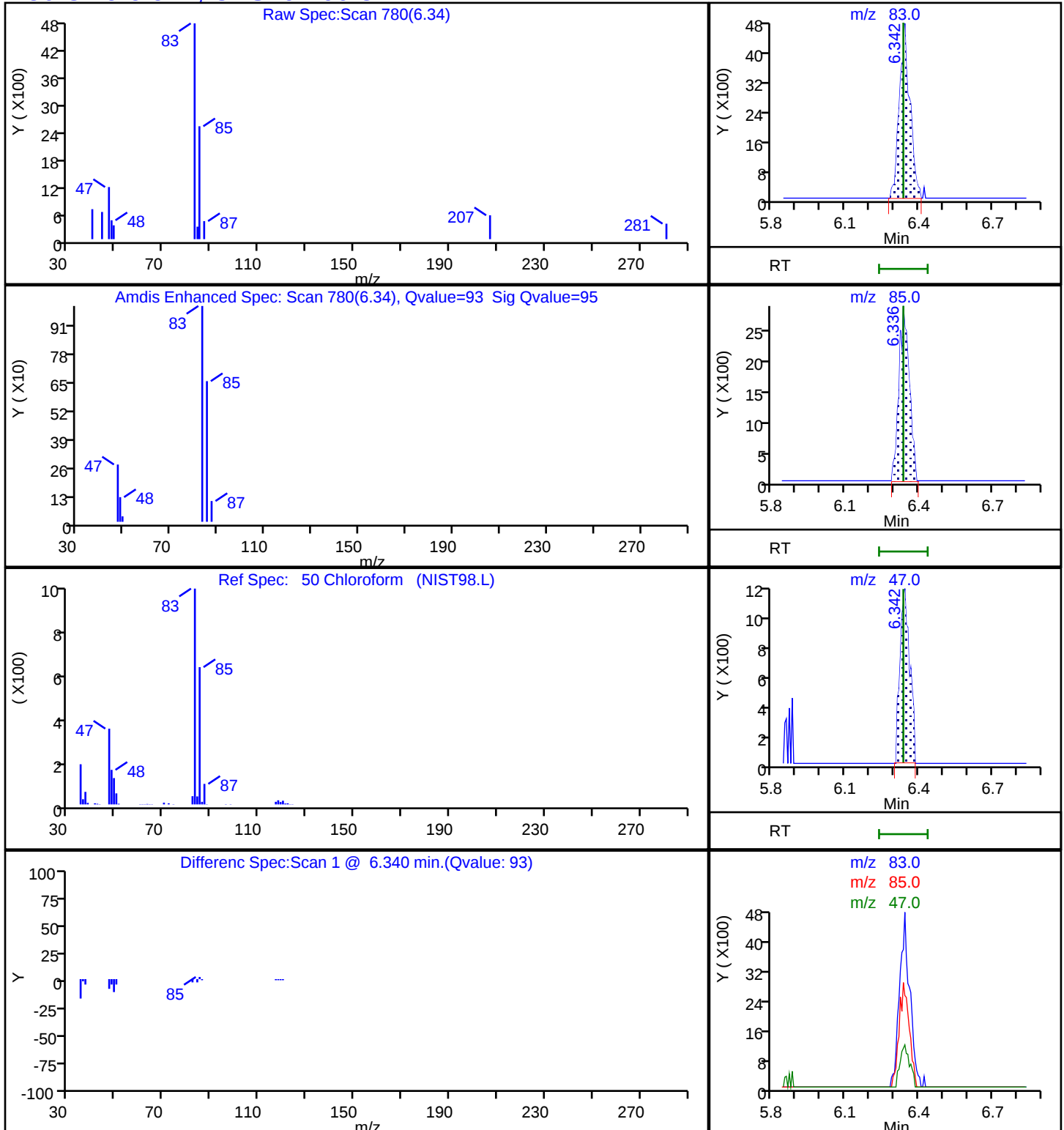
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

50 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X49.D

Injection Date: 28-Aug-2024 03:10:30

Instrument ID: 19094

Lims ID: 410-185105-A-10

Lab Sample ID: 410-185105-10

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

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

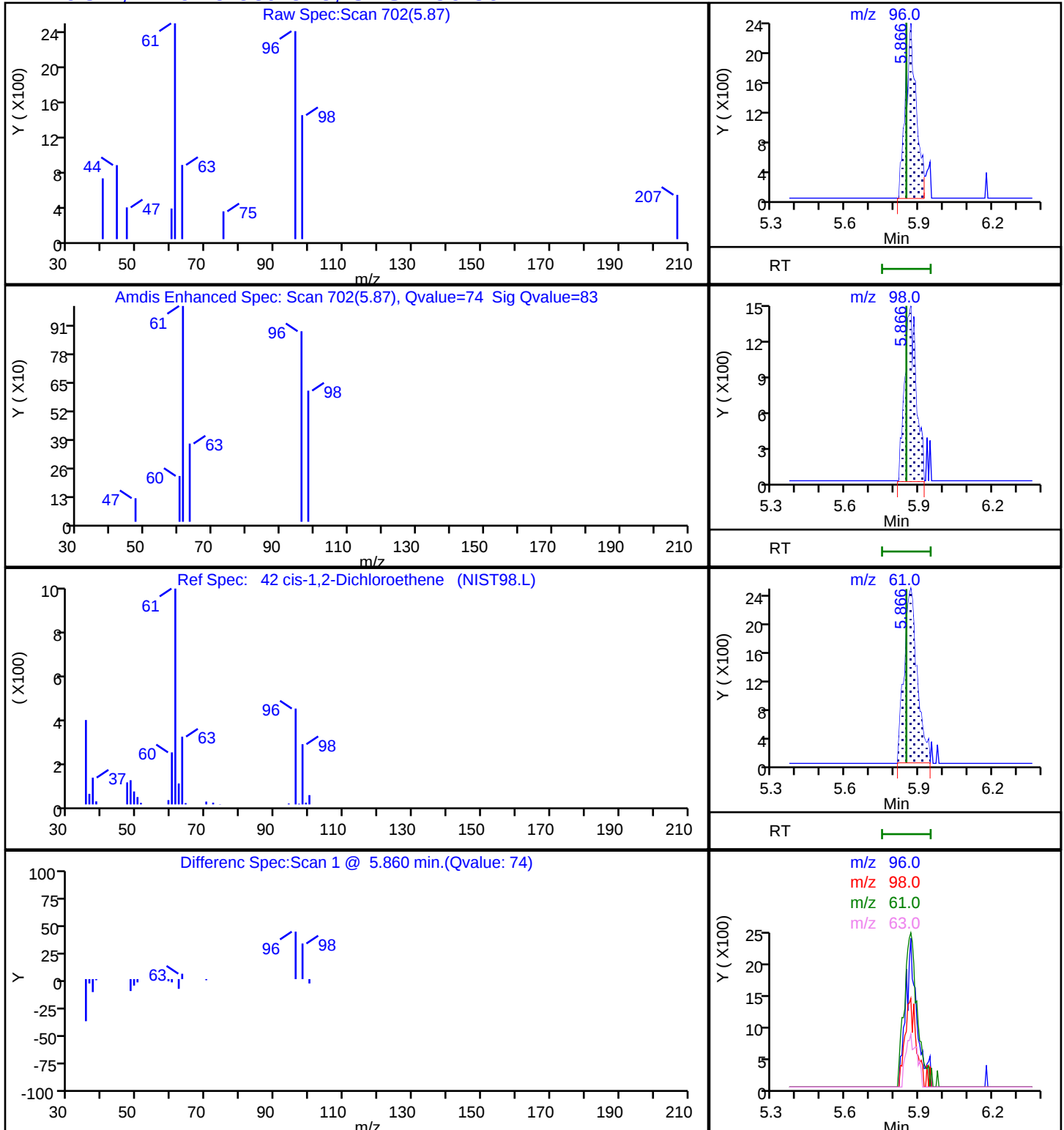
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X49.D

Injection Date: 28-Aug-2024 03:10:30

Instrument ID: 19094

Lims ID: 410-185105-A-10

Lab Sample ID: 410-185105-10

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

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

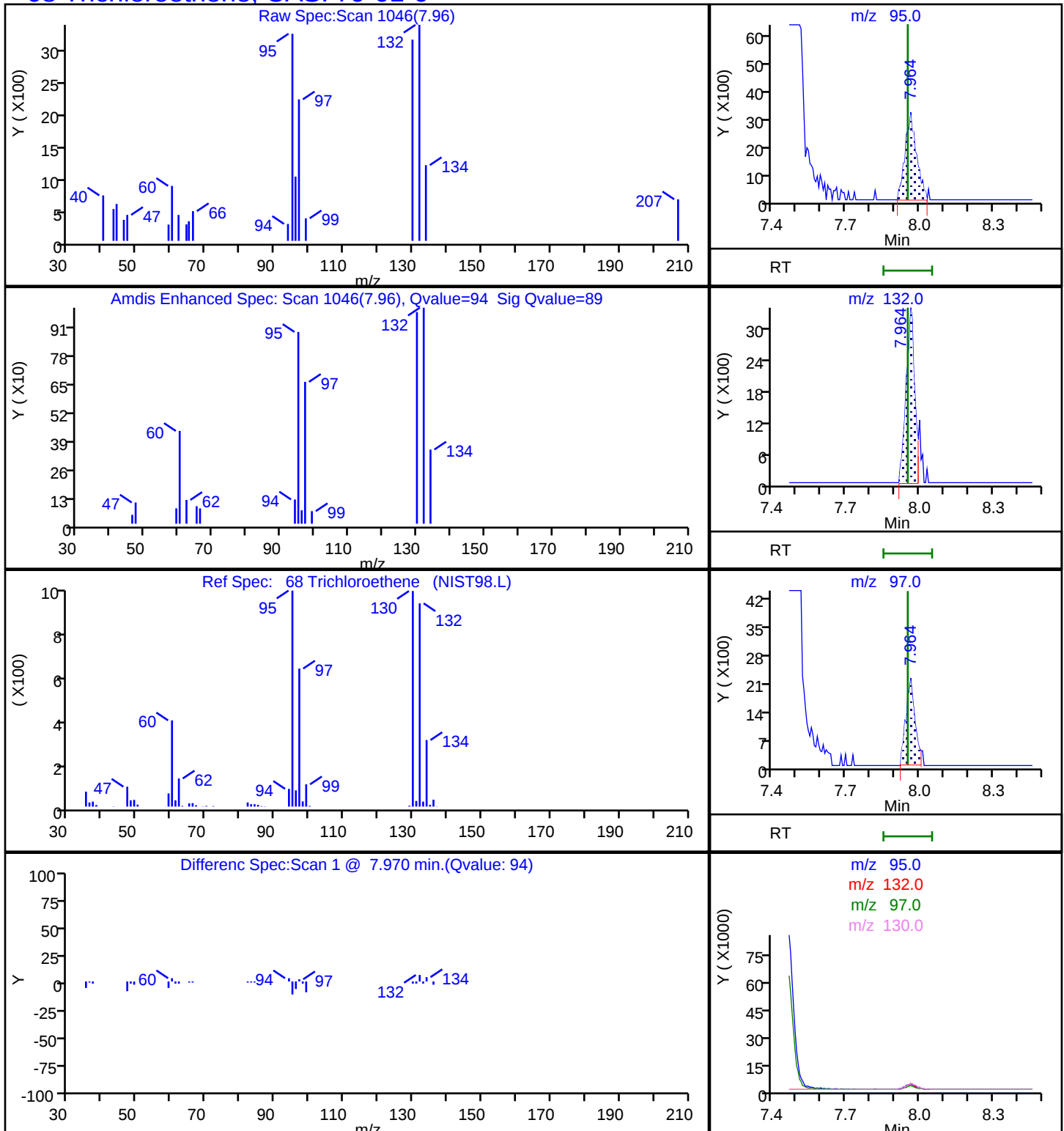
Dil. Factor: 1.0000

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

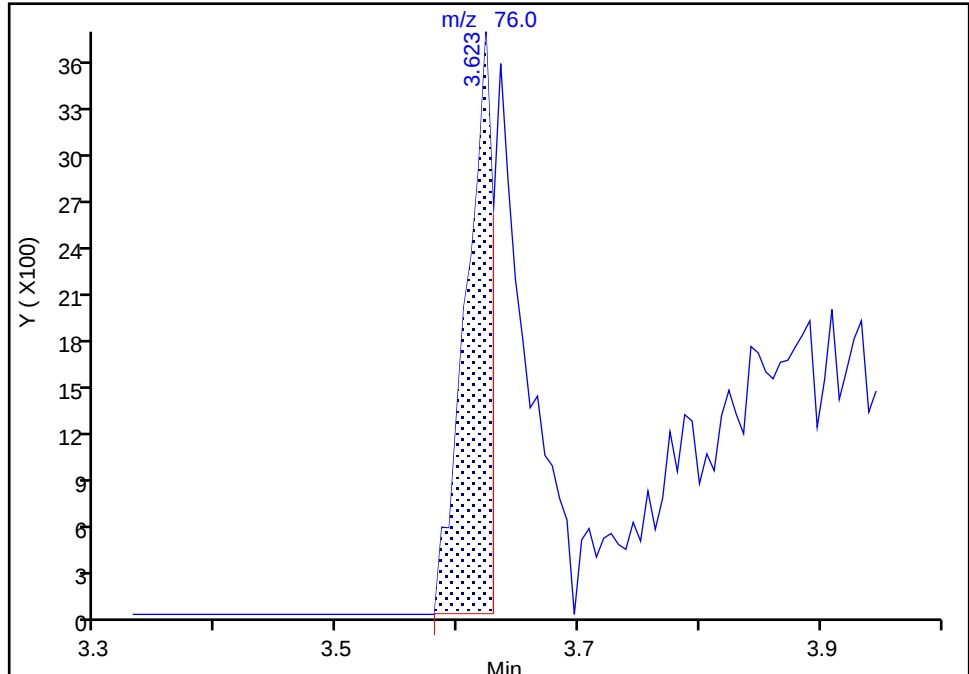
Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X49.D
Injection Date: 28-Aug-2024 03:10:30 Instrument ID: 19094
Lims ID: 410-185105-A-10 Lab Sample ID: 410-185105-10
Client ID: HD-COD-SW-27-0/1-0
Operator ID: gaw91131 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 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

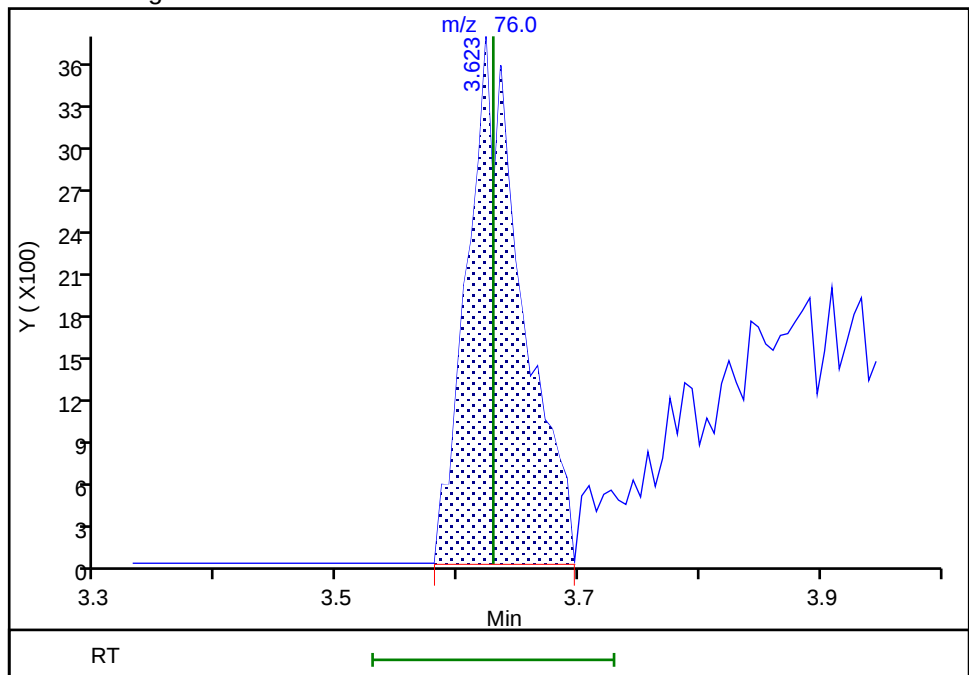
RT: 3.62
Area: 5831
Amount: 0.036863
Amount Units: ug/l

Processing Integration Results



RT: 3.62
Area: 11820
Amount: 0.074724
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 28-Aug-2024 14:41:15 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

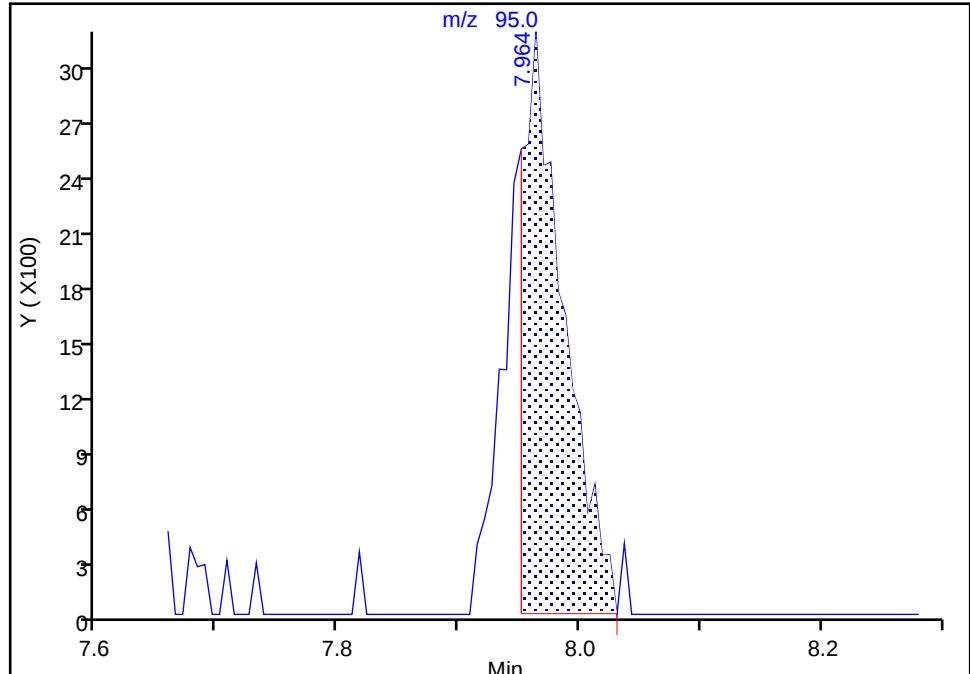
Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X49.D
Injection Date: 28-Aug-2024 03:10:30 Instrument ID: 19094
Lims ID: 410-185105-A-10 Lab Sample ID: 410-185105-10
Client ID: HD-COD-SW-27-0/1-0
Operator ID: gaw91131 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 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

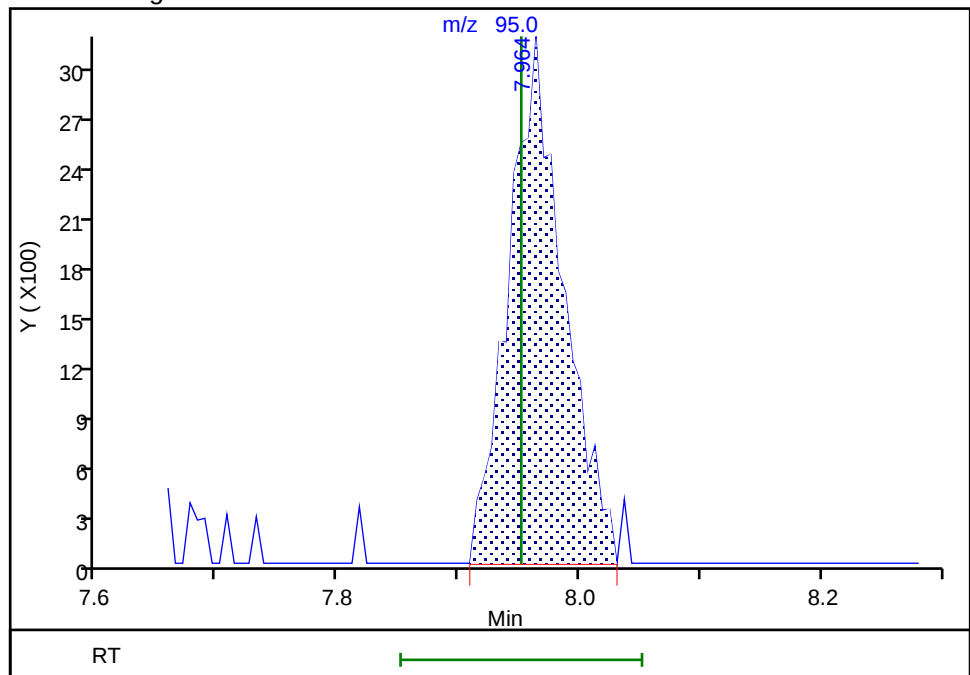
RT: 7.96
Area: 7631
Amount: 0.102278
Amount Units: ug/l

Processing Integration Results



RT: 7.96
Area: 10061
Amount: 0.134847
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 28-Aug-2024 14:42:41 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-11

Matrix: Water

Lab File ID: HG27X50.D

Analysis Method: 8260D

Date Collected: 08/20/2024 13:05

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

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	1.9	J	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	^c cn	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	0.099	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.: 410-185105-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-28-0/1-0 Lab Sample ID: 410-185105-11

Matrix: Water Lab File ID: HG27X50.D

Analysis Method: 8260D Date Collected: 08/20/2024 13:05

Sample wt/vol: 25 (mL) Date Analyzed: 08/28/2024 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.: 545038 Units: ug/L

Preparation Batch No.: _____ Instrument ID: Agilent GC/MS - HP30

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	0.15	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	0.091	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)	96		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		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\20240827-123379.b\HG27X50.D
 Lims ID: 410-185105-A-11
 Client ID: HD-COD-SW-28-0/1-0
 Sample Type: Client
 Inject. Date: 28-Aug-2024 03:31:30 ALS Bottle#: 20 Worklist Smp#: 21
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0123379-021
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Aug-2024 14:56:56 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 14:56:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.062	2.062	0.000	55	3701	0.0377	
6 Vinyl chloride	62		2.172				ND	7
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.544				ND	
17 1,1-Dichloroethene	96		3.343				ND	
19 Acetone	43	3.422	3.361	0.061	66	16142	1.90	
23 Carbon disulfide	76	3.629	3.629	0.000	99	6602	0.0415	
* 28 t-Butyl alcohol-d10 (IS)	65	3.952	3.952	0.000	59	159941	50.0	
27 Methylene Chloride	84	3.958	3.952	0.006	62	2844	0.0409	
32 Methyl tert-butyl ether	73		4.336				ND	
33 trans-1,2-Dichloroethene	96		4.355				ND	
36 1,1-Dichloroethane	63		5.007				ND	7
41 2-Butanone (MEK)	43		5.818				ND	
42 cis-1,2-Dichloroethene	96	5.867	5.848	0.019	79	7388	0.0994	
48 Chlorobromomethane	128		6.183				ND	
50 Chloroform	83	6.336	6.336	0.000	91	8670	0.0700	
\$ 52 Dibromofluoromethane (Surr)	113	6.555	6.555	0.000	93	743962	9.82	
53 1,1,1-Trichloroethane	97		6.567				ND	7
56 Carbon tetrachloride	117		6.787				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.013	0.000	47	148453	9.60	
59 Benzene	78		7.049				ND	7
60 1,2-Dichloroethane	62		7.122				ND	
* 64 Fluorobenzene (IS)	96	7.458	7.464	-0.006	99	3092625	10.0	
68 Trichloroethene	95	7.958	7.951	0.007	95	6847	0.0913	M
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	
80 cis-1,3-Dichloropropene	75		9.201				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.378				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.518	9.524	-0.006	94	3033579	10.3	
84 Toluene	92	9.604	9.603	0.001	97	26844	0.1504	
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.183	10.170	0.013	93	15406	0.1858	
109 2-Hexanone	43		10.305				ND	
111 Chlorodibromomethane	129		10.469				ND	
112 Ethylene Dibromide	107		10.585				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	87	2257304	10.0	
115 Chlorobenzene	112		11.048				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91	11.158	11.140	0.018	95	9814	0.0284	
S 118 Xylenes, Total	106				0		0.1516	
119 m-Xylene & p-Xylene	106	11.274	11.256	0.018	98	14058	0.1069	
120 o-Xylene	106	11.609	11.591	0.018	96	5788	0.0446	
121 Styrene	104		11.609				ND	7
122 Bromoform	173		11.768				ND	7
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	91	1089751	9.94	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	96	1199057	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00013

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 28-Aug-2024 14:56:56

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X50.D

Injection Date: 28-Aug-2024 03:31:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-185105-A-11

Lab Sample ID: 410-185105-11

Worklist Smp#: 21

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

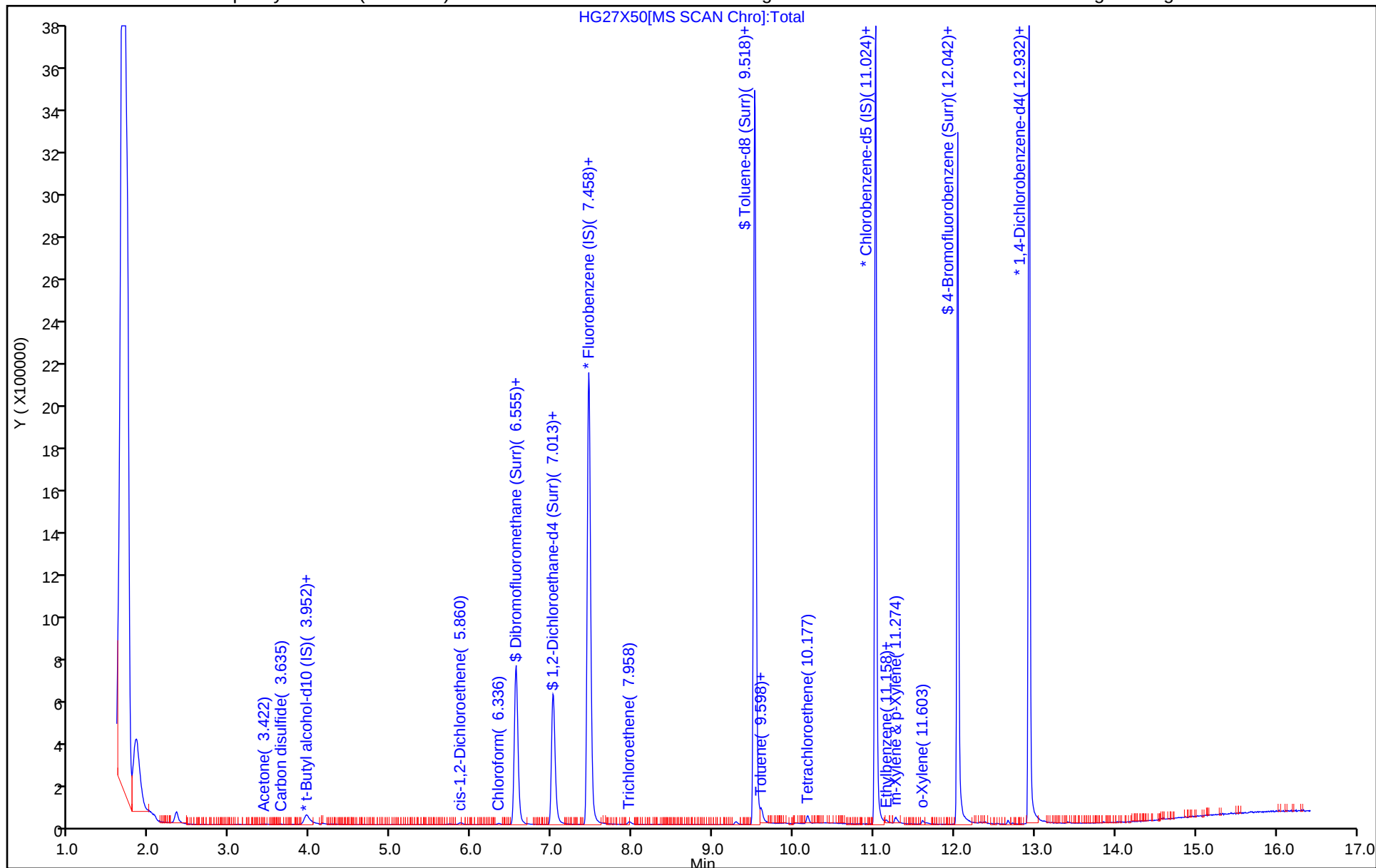
ALS Bottle#: 20

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\20240827-123379.b\HG27X50.D
Lims ID: 410-185105-A-11
Client ID: HD-COD-SW-28-0/1-0
Sample Type: Client
Inject. Date: 28-Aug-2024 03:31:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0123379-021
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Aug-2024 14:56:56 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 14:56:56

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.82	98.23
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.60	95.96
\$ 83 Toluene-d8 (Surr)	10.0	10.3	103.34
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.94	99.41

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X50.D

Injection Date: 28-Aug-2024 03:31:30

Instrument ID: 19094

Lims ID: 410-185105-A-11

Lab Sample ID: 410-185105-11

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

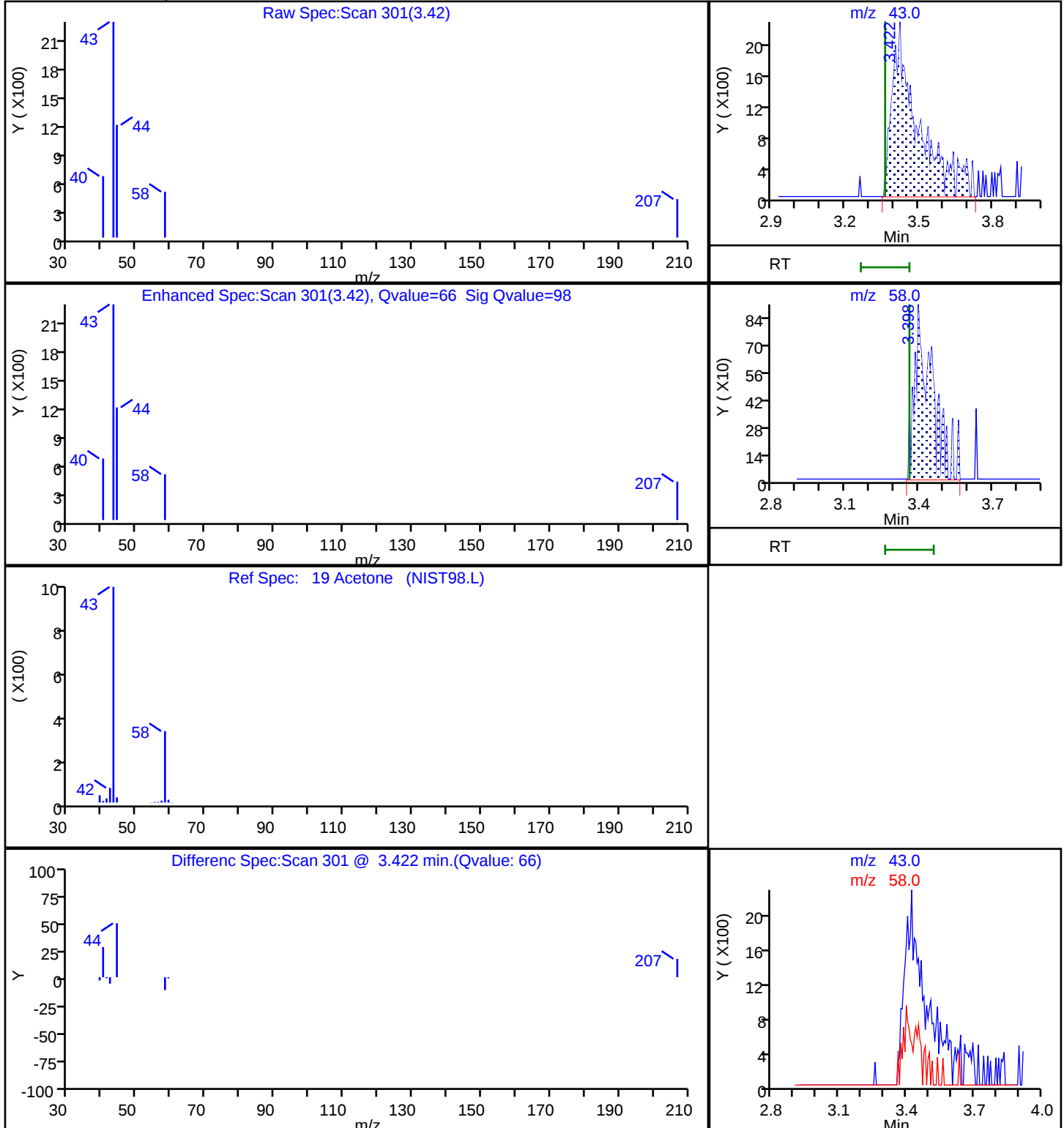
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

19 Acetone, CAS: 67-64-1

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X50.D

Injection Date: 28-Aug-2024 03:31:30

Instrument ID: 19094

Lims ID: 410-185105-A-11

Lab Sample ID: 410-185105-11

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

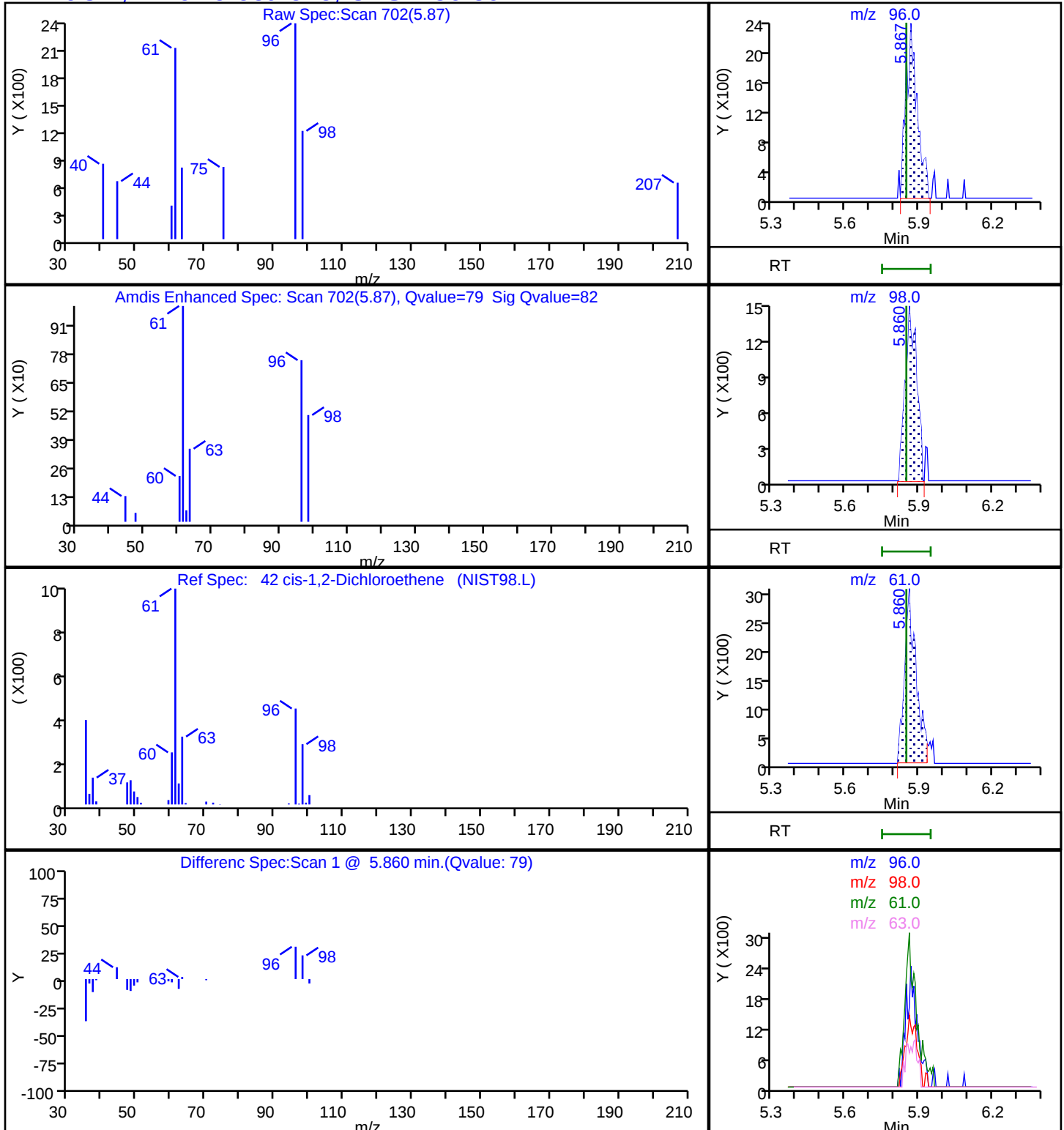
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X50.D

Injection Date: 28-Aug-2024 03:31:30

Instrument ID: 19094

Lims ID: 410-185105-A-11

Lab Sample ID: 410-185105-11

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

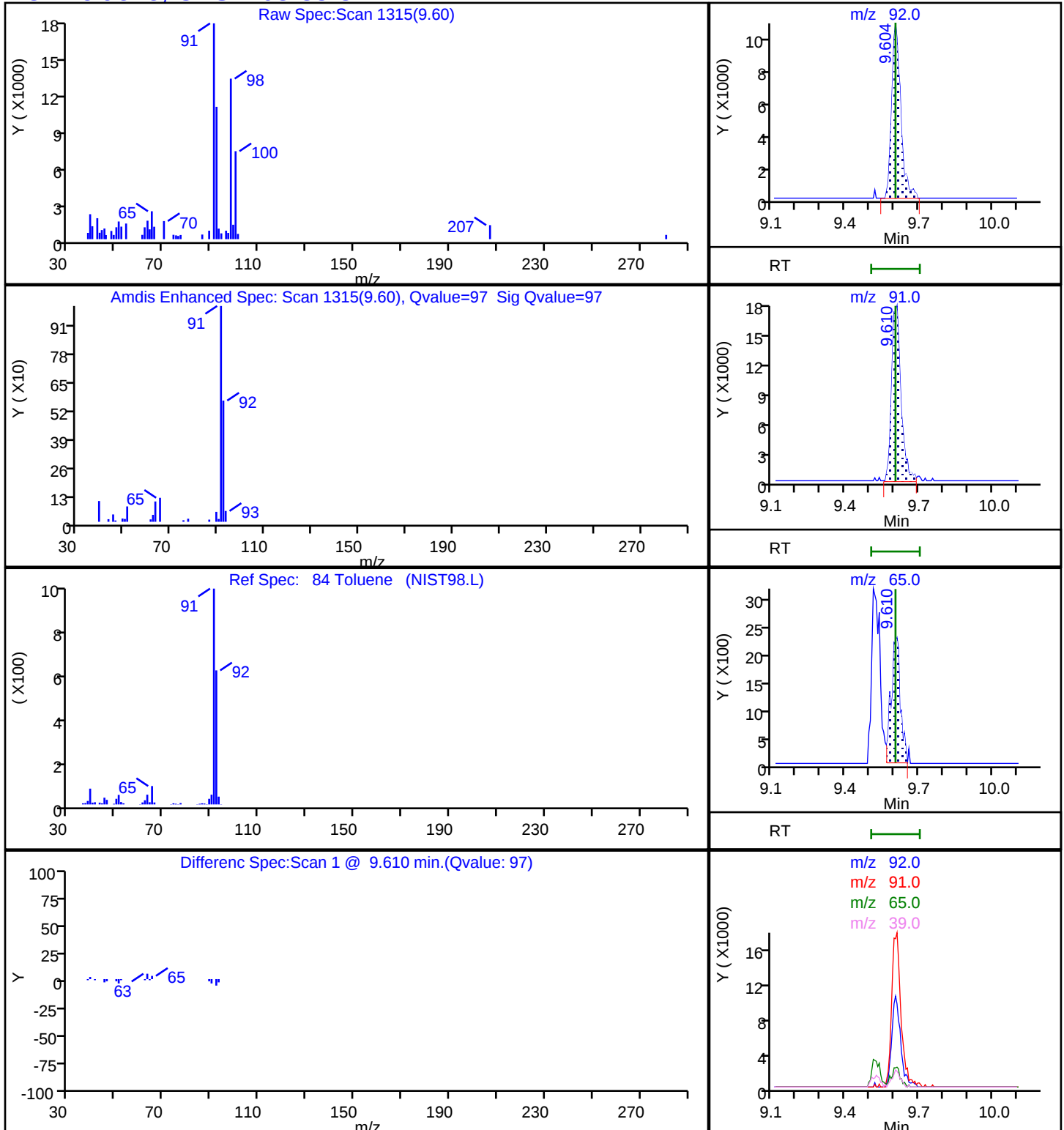
Dil. Factor: 1.0000

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\20240827-123379.b\HG27X50.D

Injection Date: 28-Aug-2024 03:31:30

Instrument ID: 19094

Lims ID: 410-185105-A-11

Lab Sample ID: 410-185105-11

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

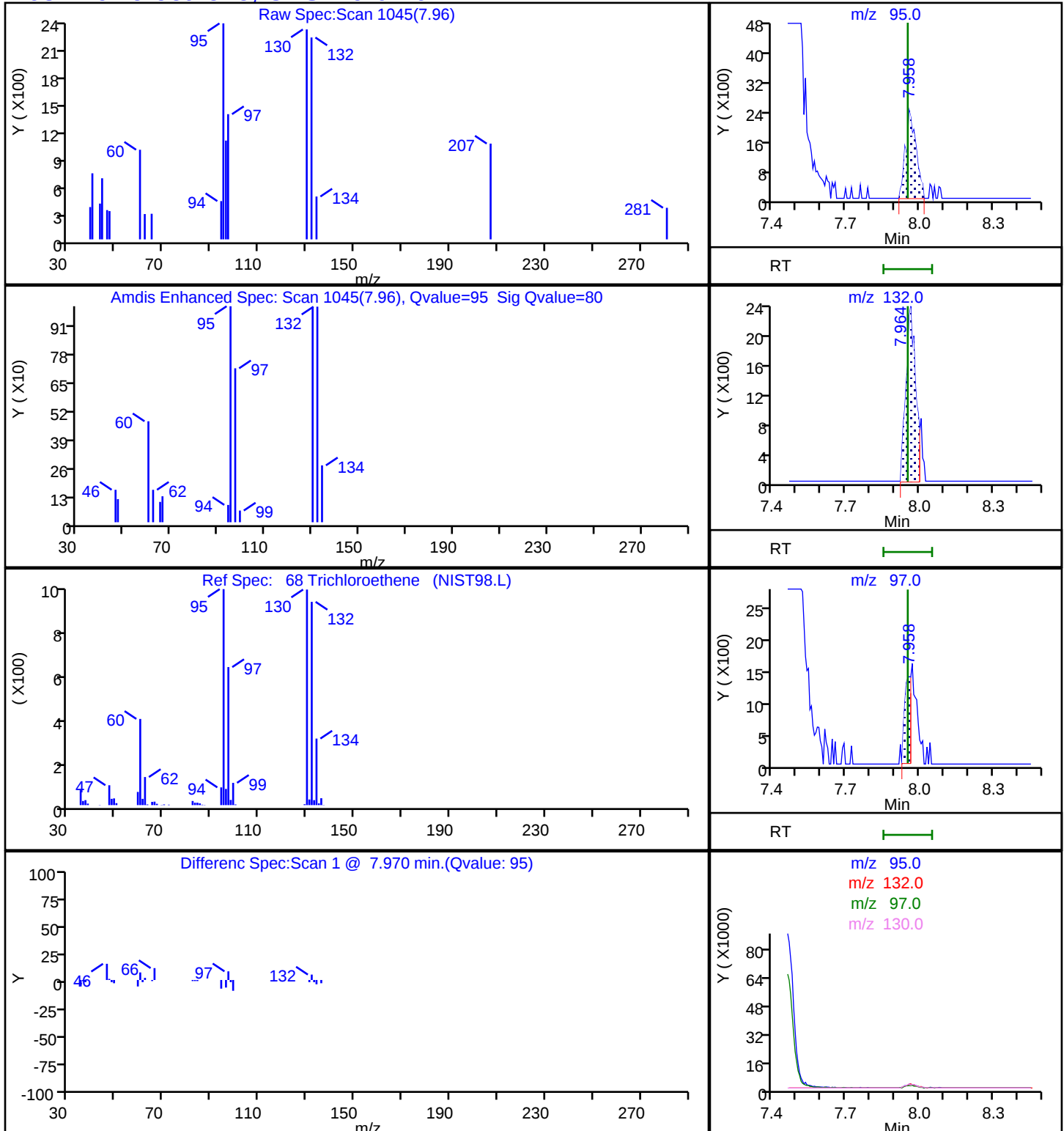
Dil. Factor: 1.0000

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

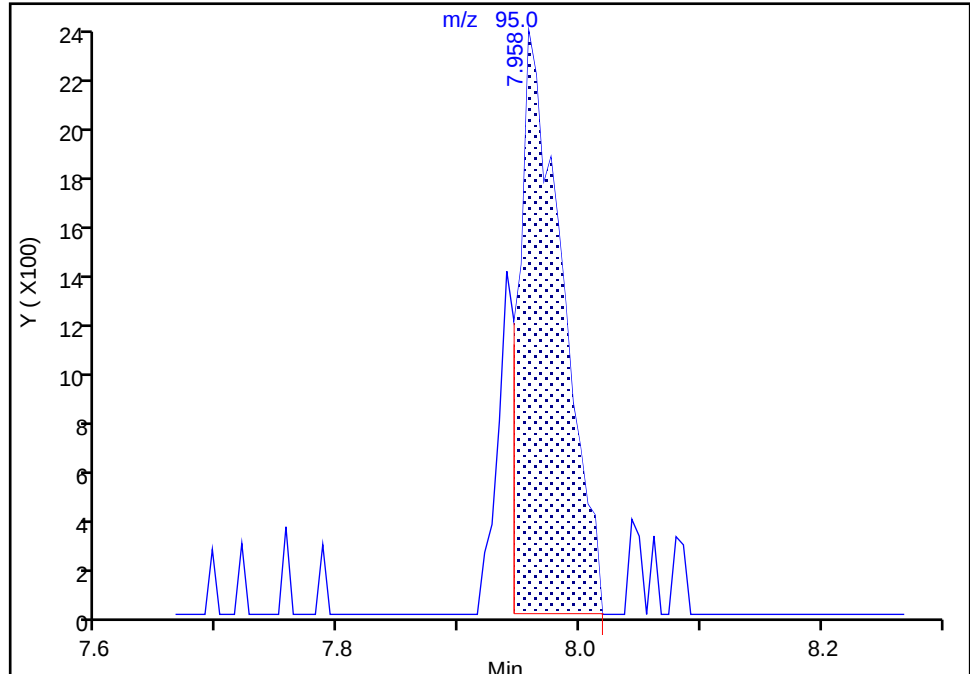
Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X50.D
Injection Date: 28-Aug-2024 03:31:30 Instrument ID: 19094
Lims ID: 410-185105-A-11 Lab Sample ID: 410-185105-11
Client ID: HD-COD-SW-28-0/1-0
Operator ID: gaw91131 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 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

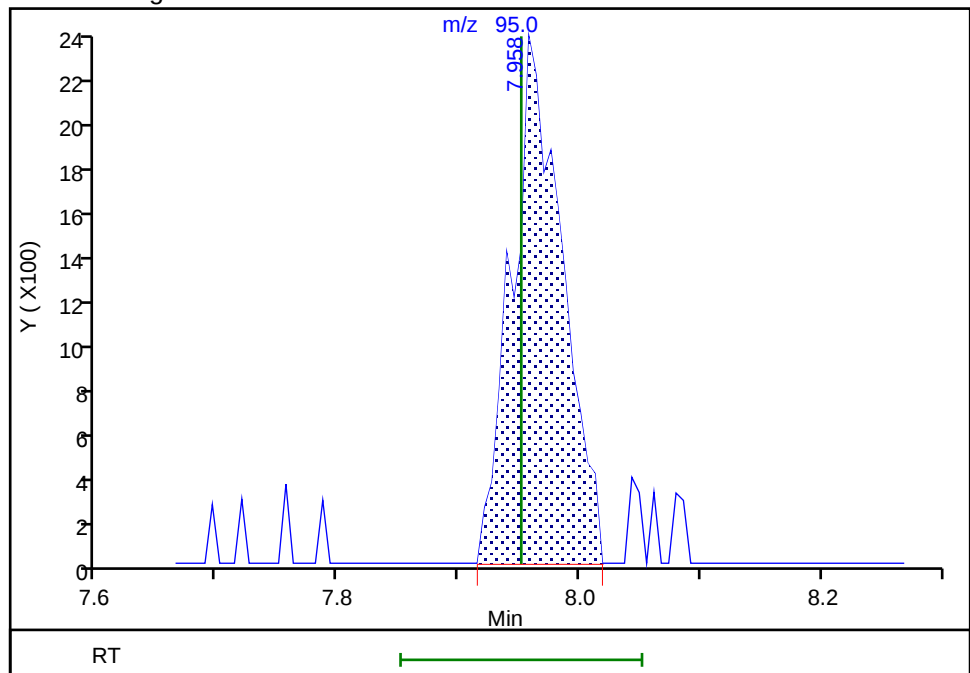
RT: 7.96
Area: 5829
Amount: 0.077699
Amount Units: ug/l

Processing Integration Results



RT: 7.96
Area: 6847
Amount: 0.091268
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 28-Aug-2024 14:56:39 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-12

Matrix: Water

Lab File ID: HG27X51.D

Analysis Method: 8260D

Date Collected: 08/20/2024 09:00

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

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	^c cn	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	0.15	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	0.55		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-29-0/1-0 Lab Sample ID: 410-185105-12

Matrix: Water Lab File ID: HG27X51.D

Analysis Method: 8260D Date Collected: 08/20/2024 09:00

Sample wt/vol: 25 (mL) Date Analyzed: 08/28/2024 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.: 545038 Units: ug/L

Preparation Batch No.: _____ Instrument ID: Agilent GC/MS - HP30

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	0.21	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)	92		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		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\20240827-123379.b\HG27X51.D
 Lims ID: 410-185105-A-12
 Client ID: HD-COD-SW-29-0/1-0
 Sample Type: Client
 Inject. Date: 28-Aug-2024 03:52:30 ALS Bottle#: 21 Worklist Smp#: 22
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0123379-022
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Aug-2024 15:15:20 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 15:15:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.062	2.062	0.000	97	5891	0.0607	
6 Vinyl chloride	62		2.172				ND	7
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.544				ND	
17 1,1-Dichloroethene	96		3.343				ND	
19 Acetone	43	3.434	3.361	0.073	57	7866	1.01	
23 Carbon disulfide	76	3.635	3.629	0.006	98	5266	0.0335	
* 28 t-Butyl alcohol-d10 (IS)	65	3.958	3.952	0.006	27	146990	50.0	
27 Methylene Chloride	84	3.952	3.952	0.000	33	2954	0.0430	
32 Methyl tert-butyl ether	73		4.336				ND	
33 trans-1,2-Dichloroethene	96		4.355				ND	
36 1,1-Dichloroethane	63		5.007				ND	7
41 2-Butanone (MEK)	43		5.818				ND	
42 cis-1,2-Dichloroethene	96	5.860	5.848	0.012	81	11224	0.1529	
48 Chlorobromomethane	128		6.183				ND	
50 Chloroform	83	6.348	6.336	0.012	93	11477	0.0939	
\$ 52 Dibromofluoromethane (Surr)	113	6.555	6.555	0.000	93	727815	9.73	
53 1,1,1-Trichloroethane	97		6.567				ND	U
56 Carbon tetrachloride	117		6.787				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.025	7.013	0.012	66	140460	9.20	
59 Benzene	78		7.049				ND	7
60 1,2-Dichloroethane	62		7.122				ND	
* 64 Fluorobenzene (IS)	96	7.458	7.464	-0.006	99	3053708	10.0	
68 Trichloroethene	95	7.970	7.951	0.019	97	15280	0.2063	M
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	7
80 cis-1,3-Dichloropropene	75		9.201				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.378				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.518	9.524	-0.006	94	3002756	10.3	
84 Toluene	92	9.610	9.603	0.007	97	21464	0.1205	
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.177	10.170	0.007	96	45134	0.5455	
109 2-Hexanone	43		10.305				ND	7
111 Chlorodibromomethane	129		10.469				ND	
112 Ethylene Dibromide	107		10.585				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	87	2252507	10.0	
115 Chlorobenzene	112		11.048				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	7
S 118 Xylenes, Total	106				0		0.0853	
119 m-Xylene & p-Xylene	106	11.274	11.256	0.018	99	7641	0.0582	
120 o-Xylene	106	11.609	11.591	0.018	94	3508	0.0271	
121 Styrene	104		11.609				ND	7
122 Bromoform	173		11.768				ND	7
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	90	1066077	9.75	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	96	1184232	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_LLcentISS_00013

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 28-Aug-2024 15:15:21

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X51.D

Injection Date: 28-Aug-2024 03:52:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-185105-A-12

Lab Sample ID: 410-185105-12

Worklist Smp#: 22

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 21

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\20240827-123379.b\HG27X51.D
Lims ID: 410-185105-A-12
Client ID: HD-COD-SW-29-0/1-0
Sample Type: Client
Inject. Date: 28-Aug-2024 03:52:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0123379-022
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Aug-2024 15:15:20 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 15:15:20

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.73	97.33
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.20	91.95
\$ 83 Toluene-d8 (Surr)	10.0	10.3	102.50
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.75	97.45

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X51.D

Injection Date: 28-Aug-2024 03:52:30

Instrument ID: 19094

Lims ID: 410-185105-A-12

Lab Sample ID: 410-185105-12

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

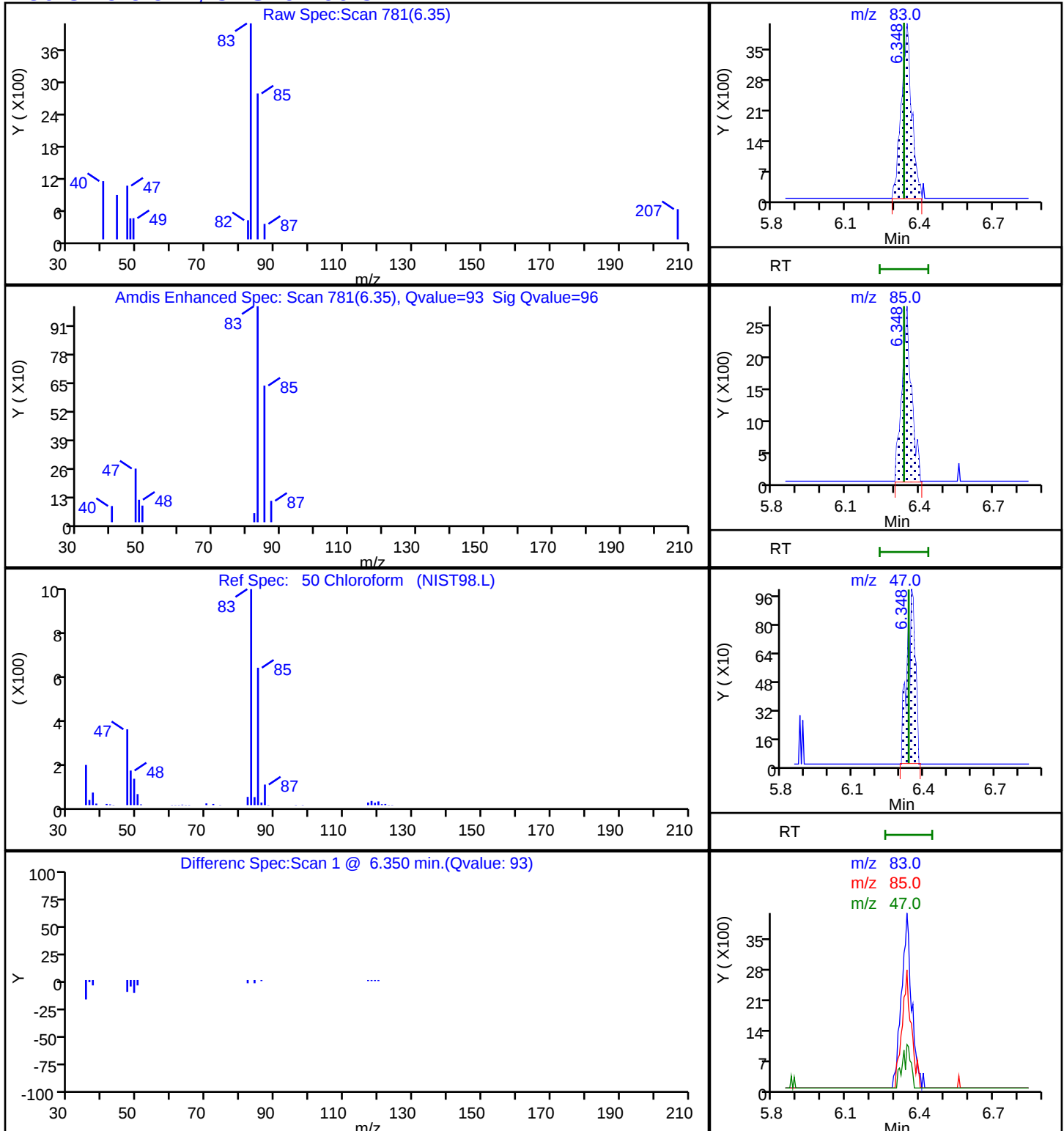
Dil. Factor: 1.0000

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\20240827-123379.b\HG27X51.D

Injection Date: 28-Aug-2024 03:52:30

Instrument ID: 19094

Lims ID: 410-185105-A-12

Lab Sample ID: 410-185105-12

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

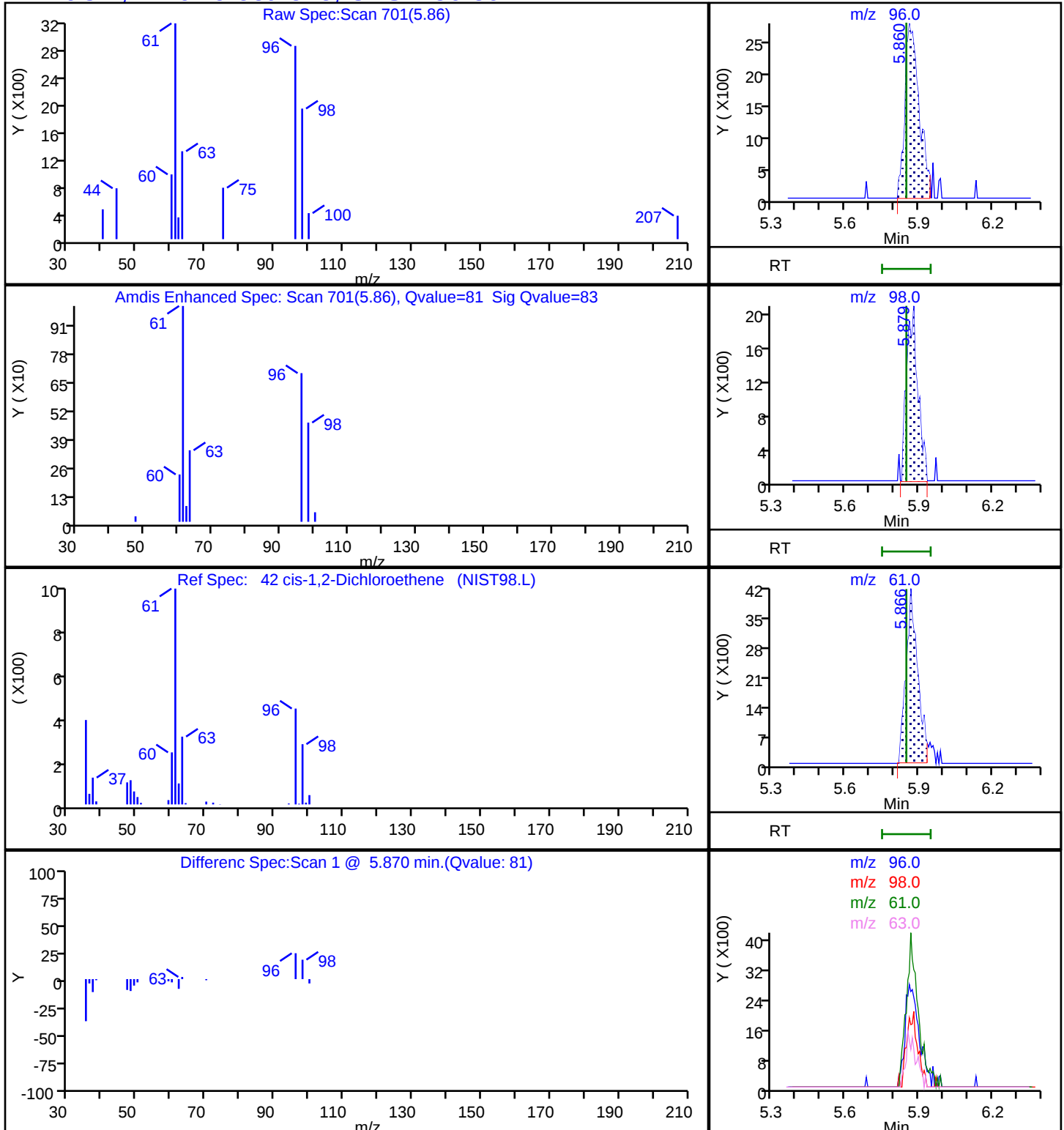
Dil. Factor: 1.0000

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\20240827-123379.b\HG27X51.D

Injection Date: 28-Aug-2024 03:52:30

Instrument ID: 19094

Lims ID: 410-185105-A-12

Lab Sample ID: 410-185105-12

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

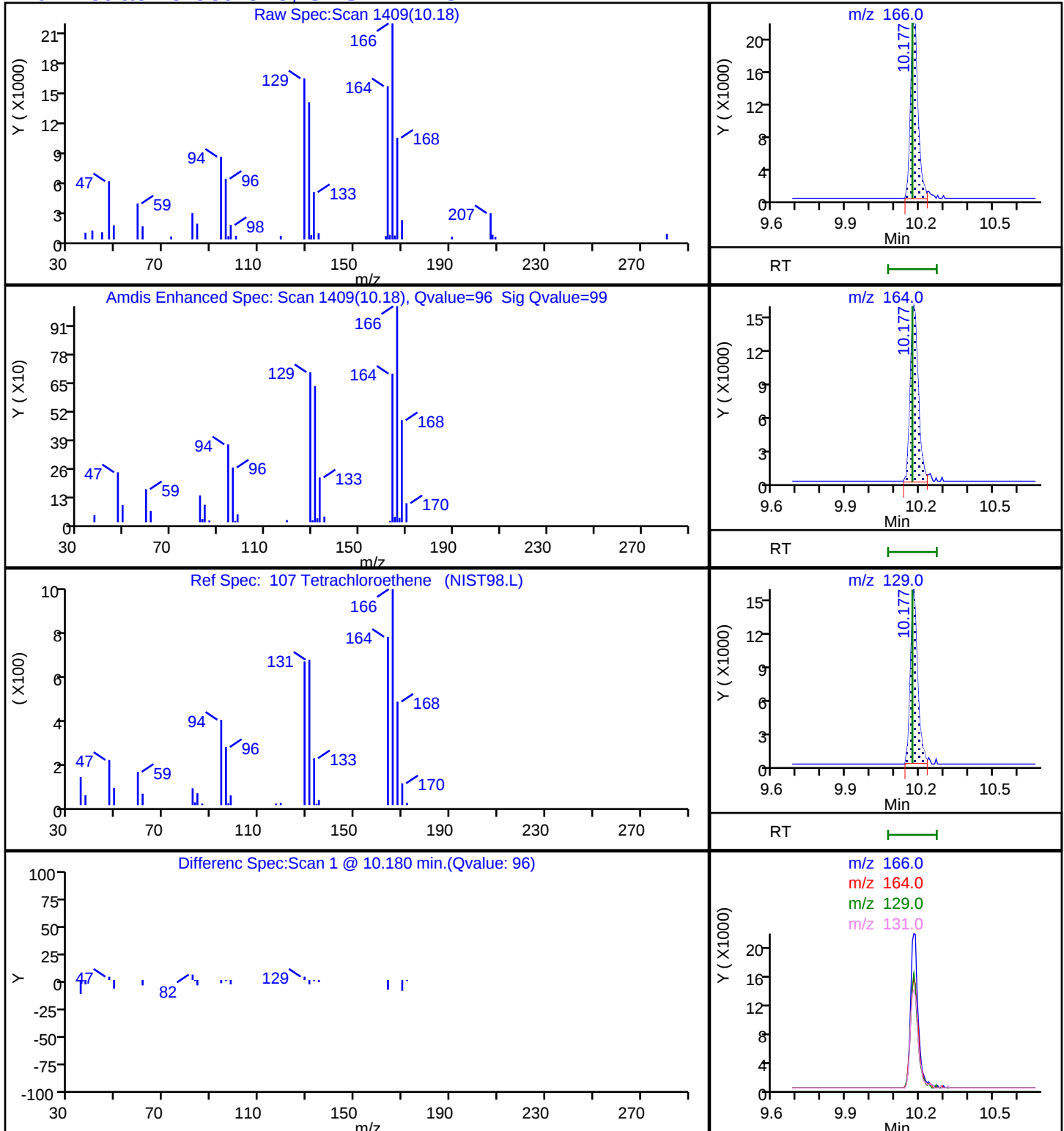
Dil. Factor: 1.0000

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X51.D

Injection Date: 28-Aug-2024 03:52:30

Instrument ID: 19094

Lims ID: 410-185105-A-12

Lab Sample ID: 410-185105-12

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

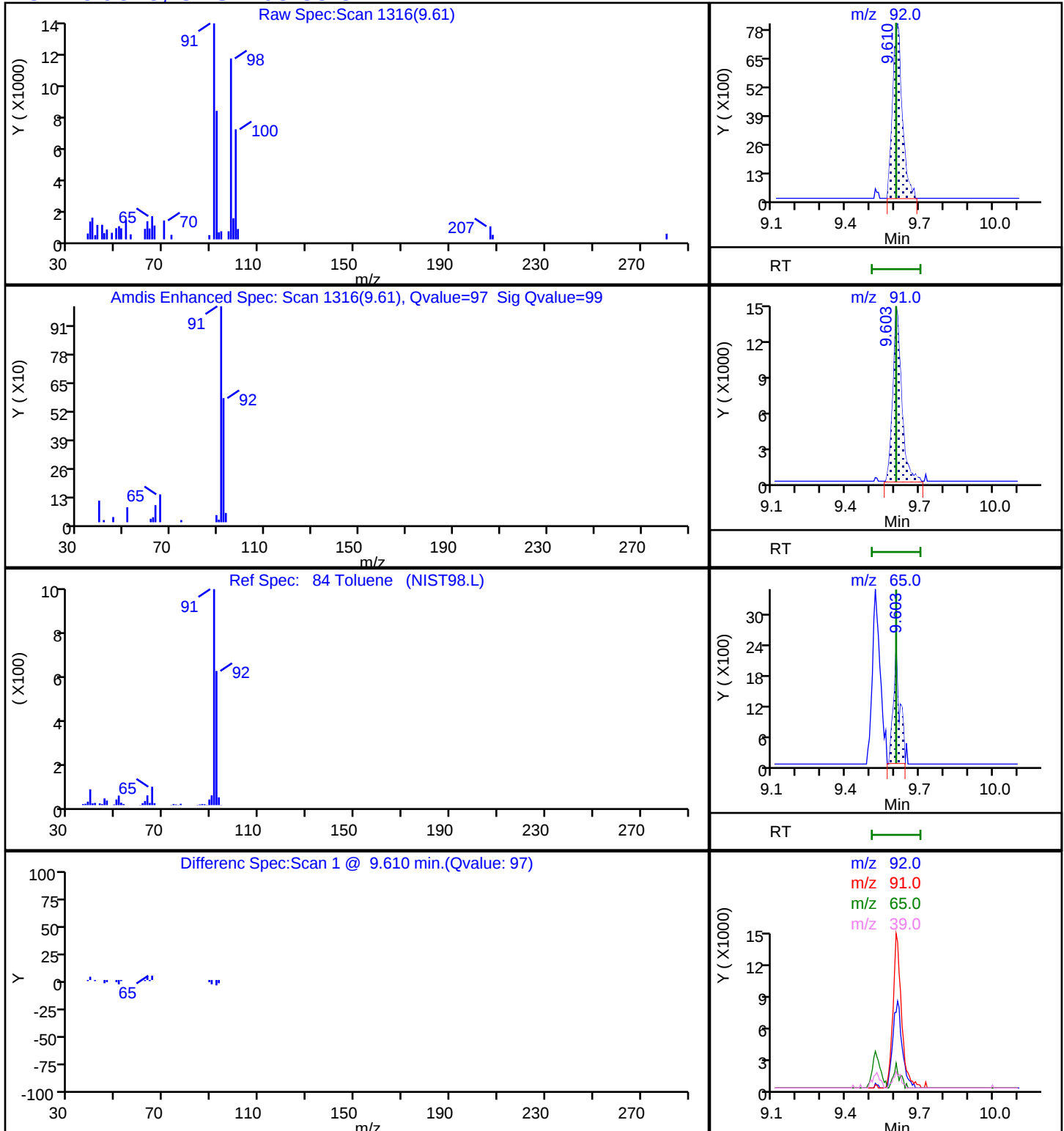
Dil. Factor: 1.0000

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\20240827-123379.b\HG27X51.D

Injection Date: 28-Aug-2024 03:52:30

Instrument ID: 19094

Lims ID: 410-185105-A-12

Lab Sample ID: 410-185105-12

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

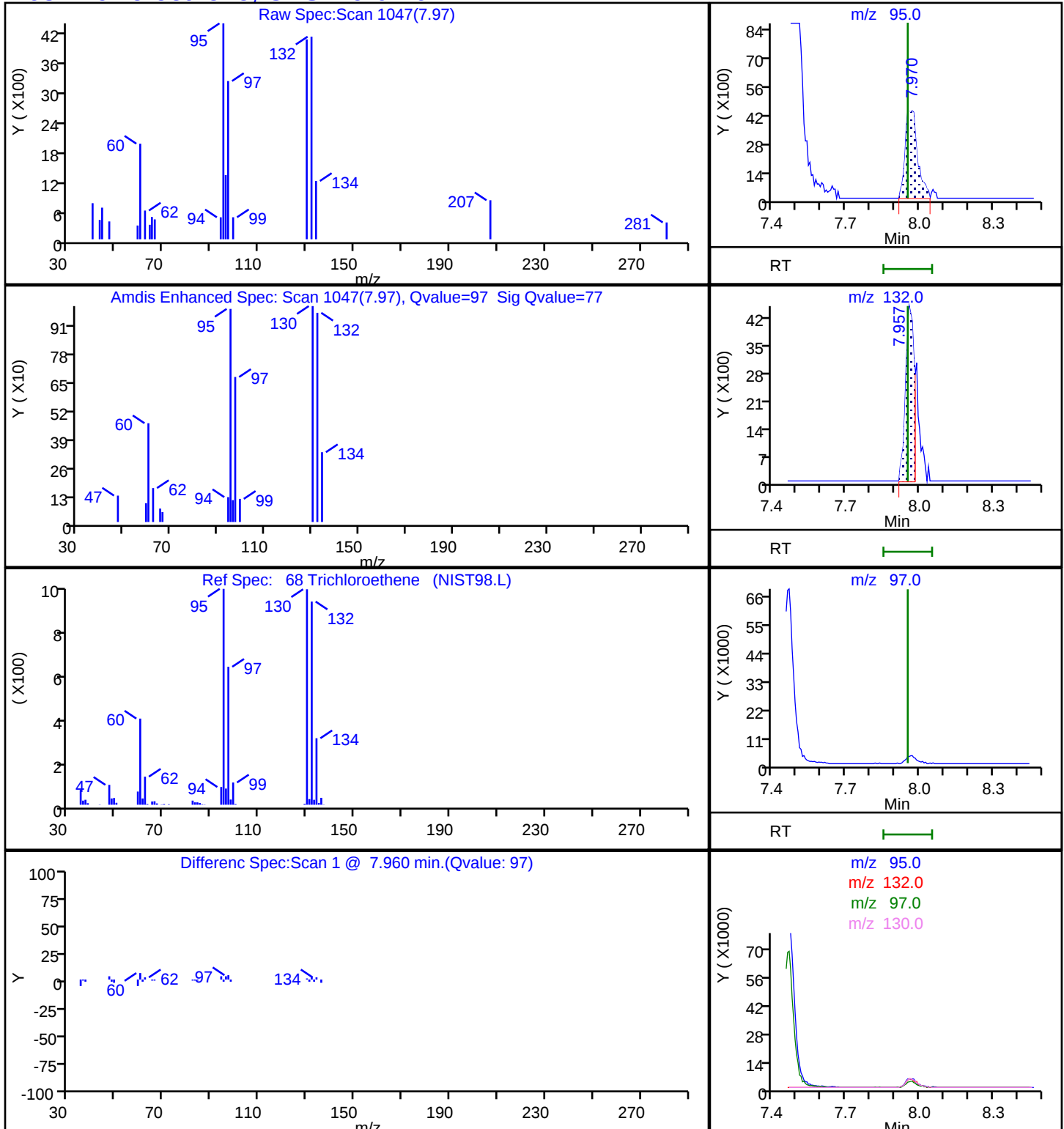
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

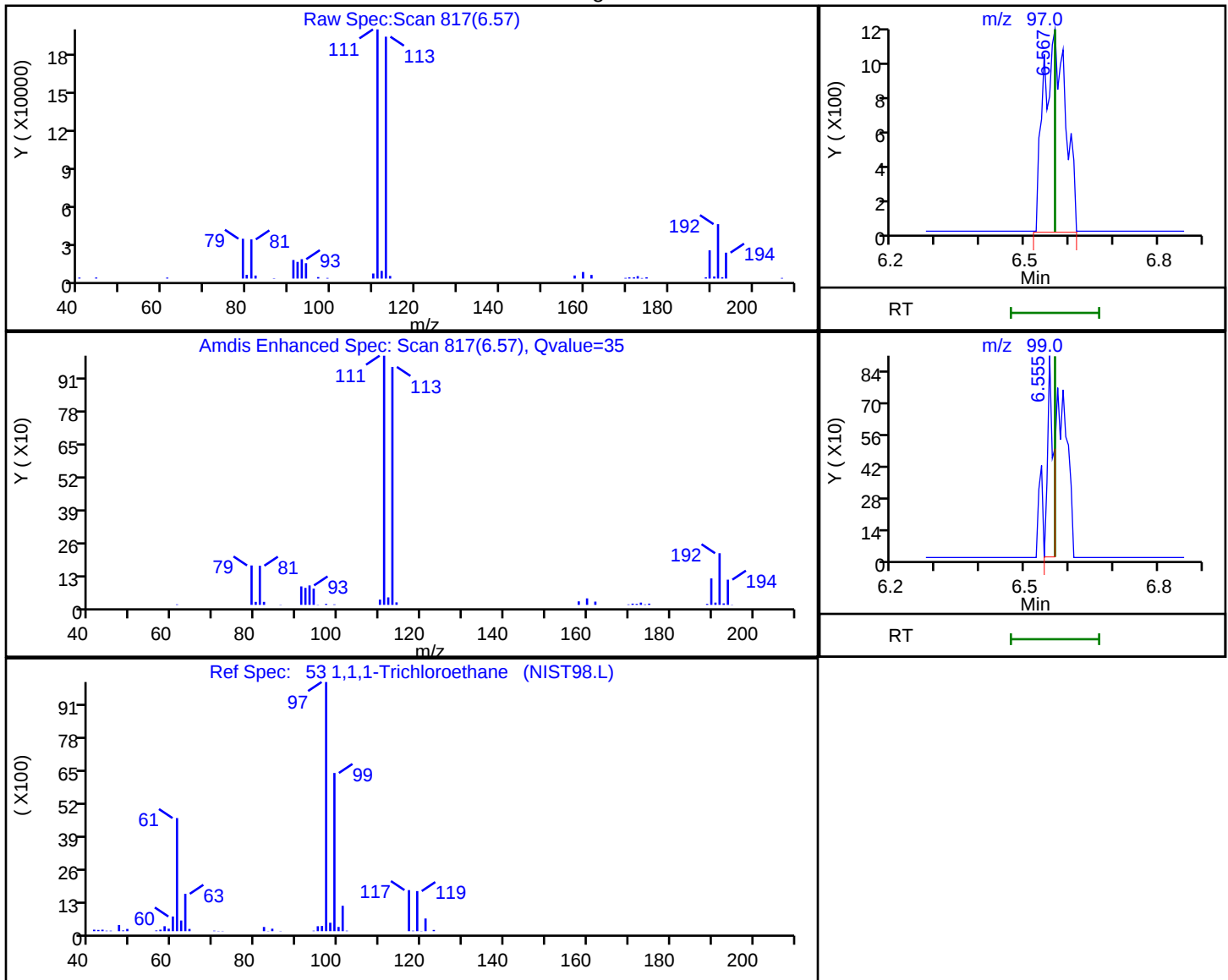
68 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X51.D
Injection Date: 28-Aug-2024 03:52:30 Instrument ID: 19094
Lims ID: 410-185105-A-12 Lab Sample ID: 410-185105-12
Client ID: HD-COD-SW-29-0/1-0
Operator ID: gaw91131 ALS Bottle#: 21 Worklist Smp#: 22
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
6.57	97.00	3908	0.037490
6.56	99.00	793	

Reviewer: N9NA, 28-Aug-2024 15:14:52 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

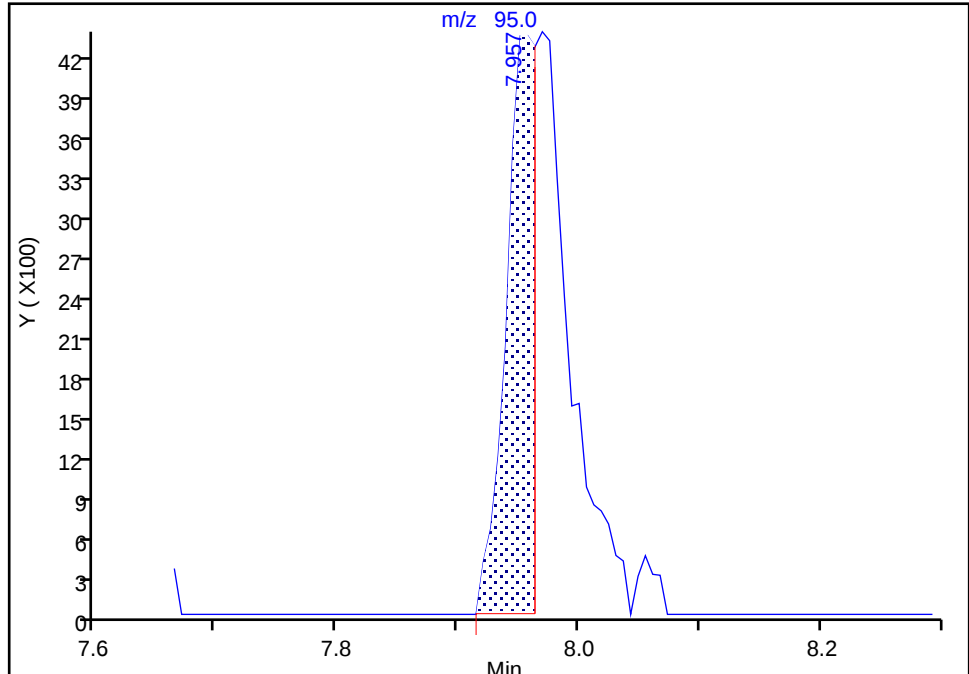
Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X51.D
Injection Date: 28-Aug-2024 03:52:30 Instrument ID: 19094
Lims ID: 410-185105-A-12 Lab Sample ID: 410-185105-12
Client ID: HD-COD-SW-29-0/1-0
Operator ID: gaw91131 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 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

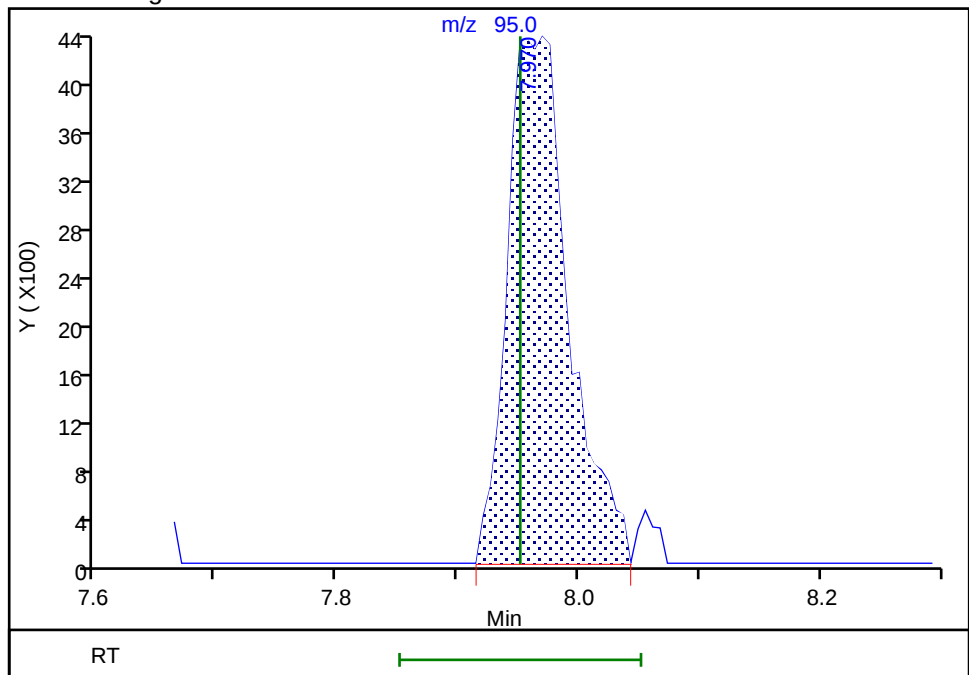
RT: 7.96
Area: 7487
Amount: 0.101071
Amount Units: ug/l

Processing Integration Results



RT: 7.97
Area: 15280
Amount: 0.206273
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 28-Aug-2024 15:15:09 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-13

Matrix: Water

Lab File ID: HG27X54.D

Analysis Method: 8260D

Date Collected: 08/20/2024 12:00

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 04:54

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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

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	10		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	1.8		0.50	0.10
75-35-4	1,1-Dichloroethene	0.79		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	^c cn	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	0.14	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	2.7		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.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-13

Matrix: Water

Lab File ID: HG27X54.D

Analysis Method: 8260D

Date Collected: 08/20/2024 12:00

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 04:54

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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

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	4.2		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)	96		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		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\20240827-123379.b\HG27X54.D
 Lims ID: 410-185105-A-13
 Client ID: HD-QC1-0/1-1
 Sample Type: Client
 Inject. Date: 28-Aug-2024 04:54:30 ALS Bottle#: 24 Worklist Smp#: 25
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0123379-025
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Aug-2024 13:13:37 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1632

First Level Reviewer: DVW2

Date: 28-Aug-2024 13:12:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.062				ND	7
6 Vinyl chloride	62		2.172				ND	7
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.544				ND	
17 1,1-Dichloroethene	96	3.336	3.343	-0.006	96	43898	0.7912	
19 Acetone	43		3.361				ND	
23 Carbon disulfide	76		3.629				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	3.946	3.952	-0.006	27	170645	50.0	
27 Methylene Chloride	84	3.952	3.952	0.000	34	2769	0.0401	
32 Methyl tert-butyl ether	73		4.336				ND	7
33 trans-1,2-Dichloroethene	96	4.379	4.355	0.025	95	2915	0.0449	
36 1,1-Dichloroethane	63	5.007	5.007	0.000	96	227714	1.84	
41 2-Butanone (MEK)	43		5.818				ND	
42 cis-1,2-Dichloroethene	96	5.848	5.848	0.000	81	197522	2.67	
48 Chlorobromomethane	128		6.183				ND	
50 Chloroform	83	6.336	6.336	0.000	92	17682	0.1437	
\$ 52 Dibromofluoromethane (Surr)	113	6.555	6.555	0.000	93	733583	9.75	
53 1,1,1-Trichloroethane	97	6.561	6.567	-0.006	98	1061808	10.1	
56 Carbon tetrachloride	117		6.787				ND	7
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.013	0.000	70	147410	9.59	
59 Benzene	78		7.049				ND	7
60 1,2-Dichloroethane	62		7.122				ND	
* 64 Fluorobenzene (IS)	96	7.458	7.464	-0.006	98	3073434	10.0	
68 Trichloroethene	95	7.945	7.951	-0.006	98	311685	4.18	
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	
80 cis-1,3-Dichloropropene	75		9.201				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.378				ND	
\$ 83 Toluene-d8 (Surr)	98	9.518	9.524	-0.006	94	3029467	9.96	
84 Toluene	92	9.604	9.603	0.001	97	6683	0.0361	
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.171	10.170	0.000	97	12240515	142.4	E
109 2-Hexanone	43		10.305				ND	
111 Chlorodibromomethane	129		10.469				ND	7
112 Ethylene Dibromide	107		10.585				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	87	2339312	10.0	
115 Chlorobenzene	112		11.048				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	7
117 Ethylbenzene	91		11.140				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	7
120 o-Xylene	106		11.591				ND	7
121 Styrene	104		11.609				ND	7
122 Bromoform	173		11.768				ND	7
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	90	1111132	9.78	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	95	1220956	10.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00013

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 28-Aug-2024 13:14:37

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X54.D

Injection Date: 28-Aug-2024 04:54:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-185105-A-13

Lab Sample ID: 410-185105-13

Worklist Smp#: 25

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

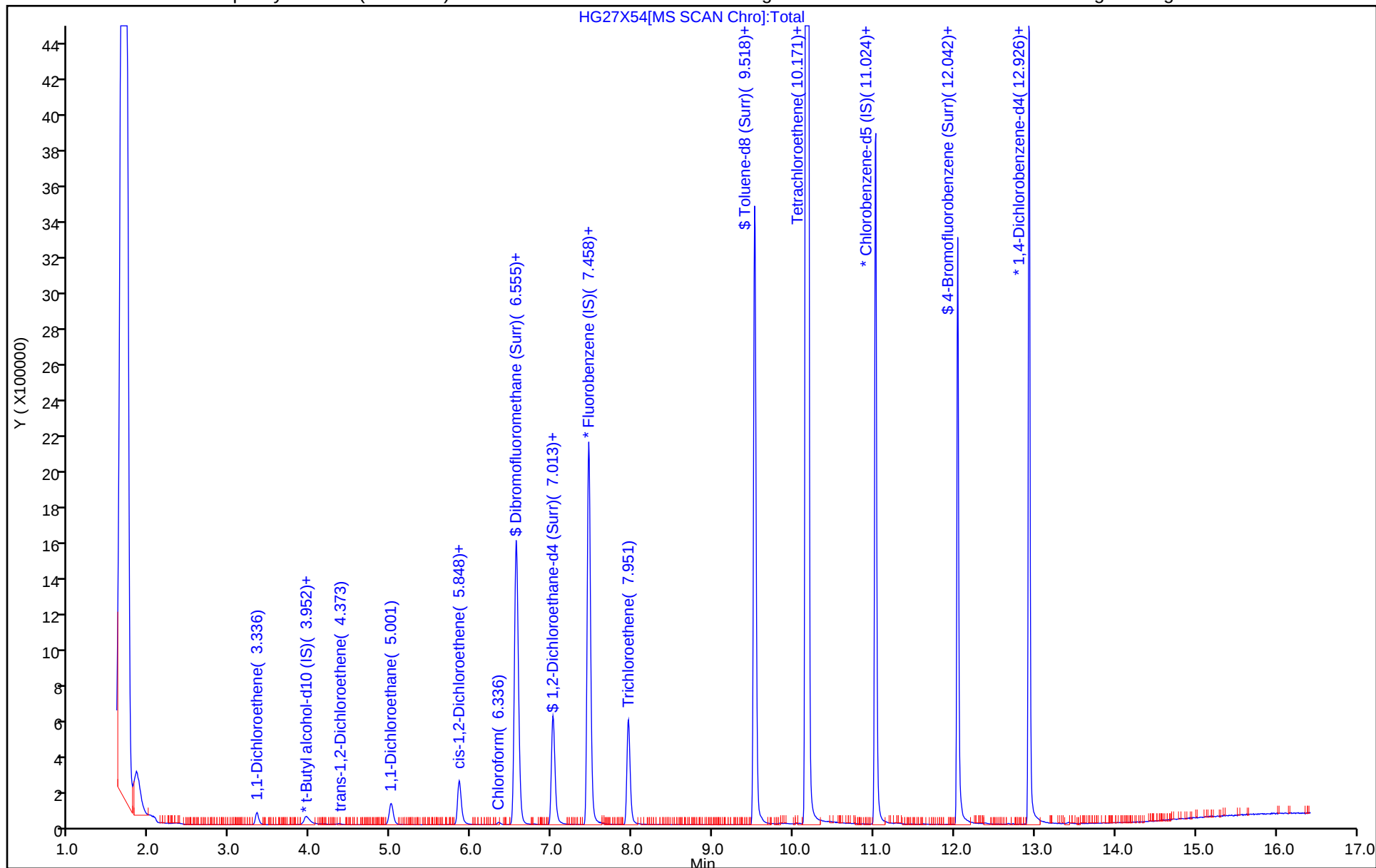
ALS Bottle#: 24

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\20240827-123379.b\HG27X54.D
Lims ID: 410-185105-A-13
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 28-Aug-2024 04:54:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0123379-025
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Aug-2024 13:13:37 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: DVW2

Date: 28-Aug-2024 13:12:24

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.75	97.47
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.59	95.88
\$ 83 Toluene-d8 (Surr)	10.0	9.96	99.58
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.78	97.80

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X54.D

Injection Date: 28-Aug-2024 04:54:30

Instrument ID: 19094

Lims ID: 410-185105-A-13

Lab Sample ID: 410-185105-13

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

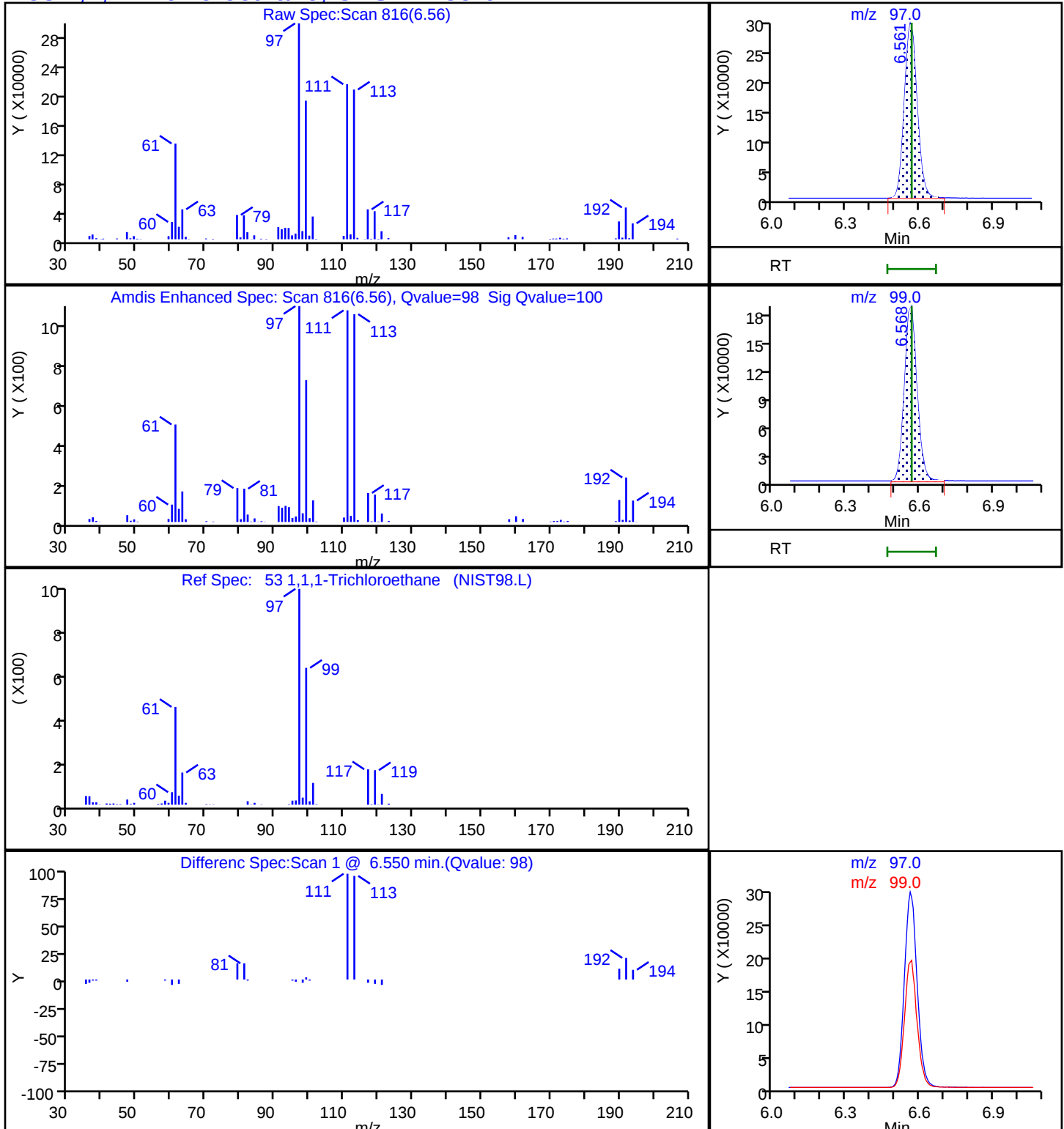
Dil. Factor: 1.0000

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\20240827-123379.b\HG27X54.D

Injection Date: 28-Aug-2024 04:54:30

Instrument ID: 19094

Lims ID: 410-185105-A-13

Lab Sample ID: 410-185105-13

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

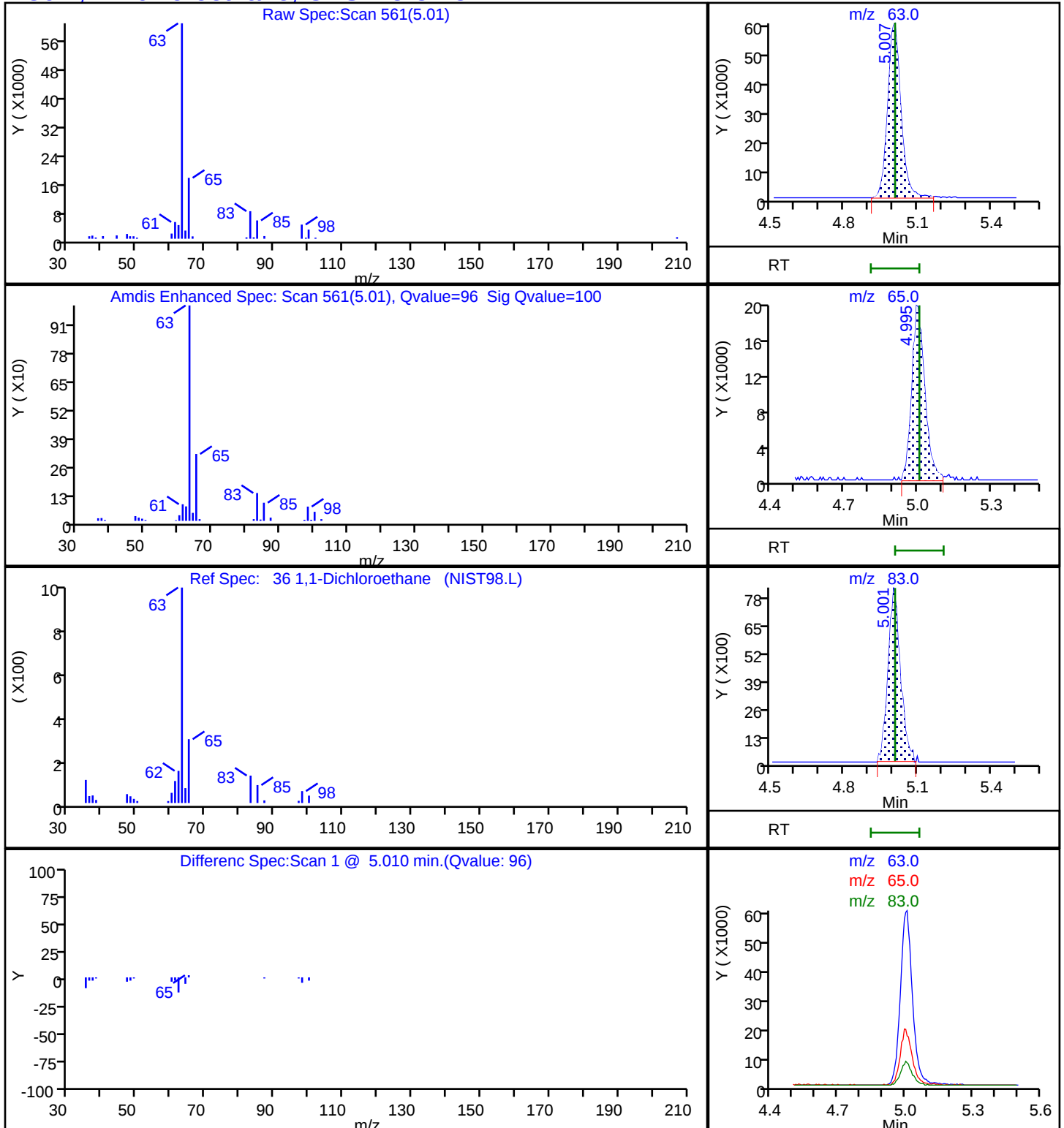
Dil. Factor: 1.0000

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\20240827-123379.b\HG27X54.D

Injection Date: 28-Aug-2024 04:54:30

Instrument ID: 19094

Lims ID: 410-185105-A-13

Lab Sample ID: 410-185105-13

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

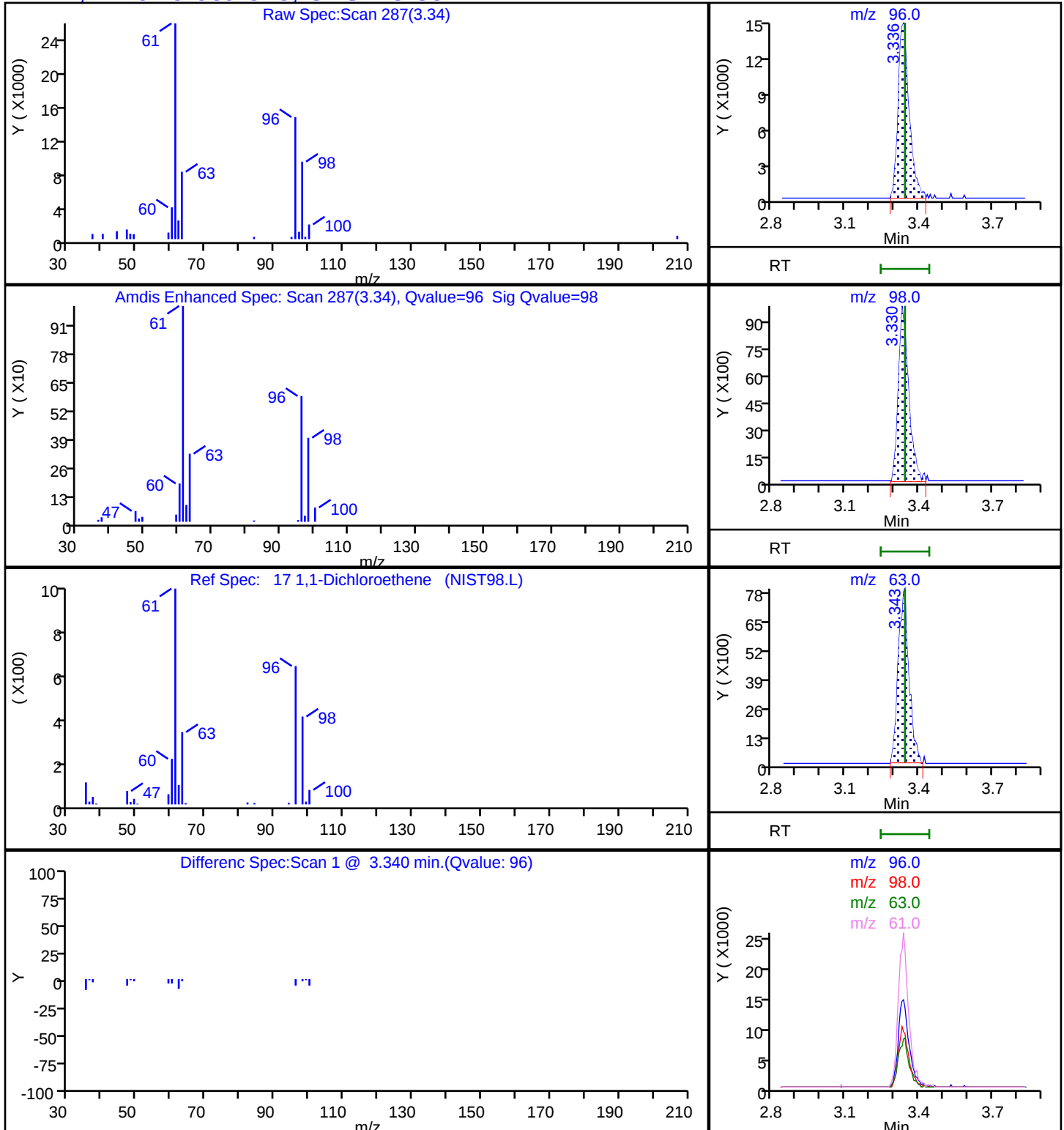
Dil. Factor: 1.0000

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

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X54.D

Injection Date: 28-Aug-2024 04:54:30

Instrument ID: 19094

Lims ID: 410-185105-A-13

Lab Sample ID: 410-185105-13

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

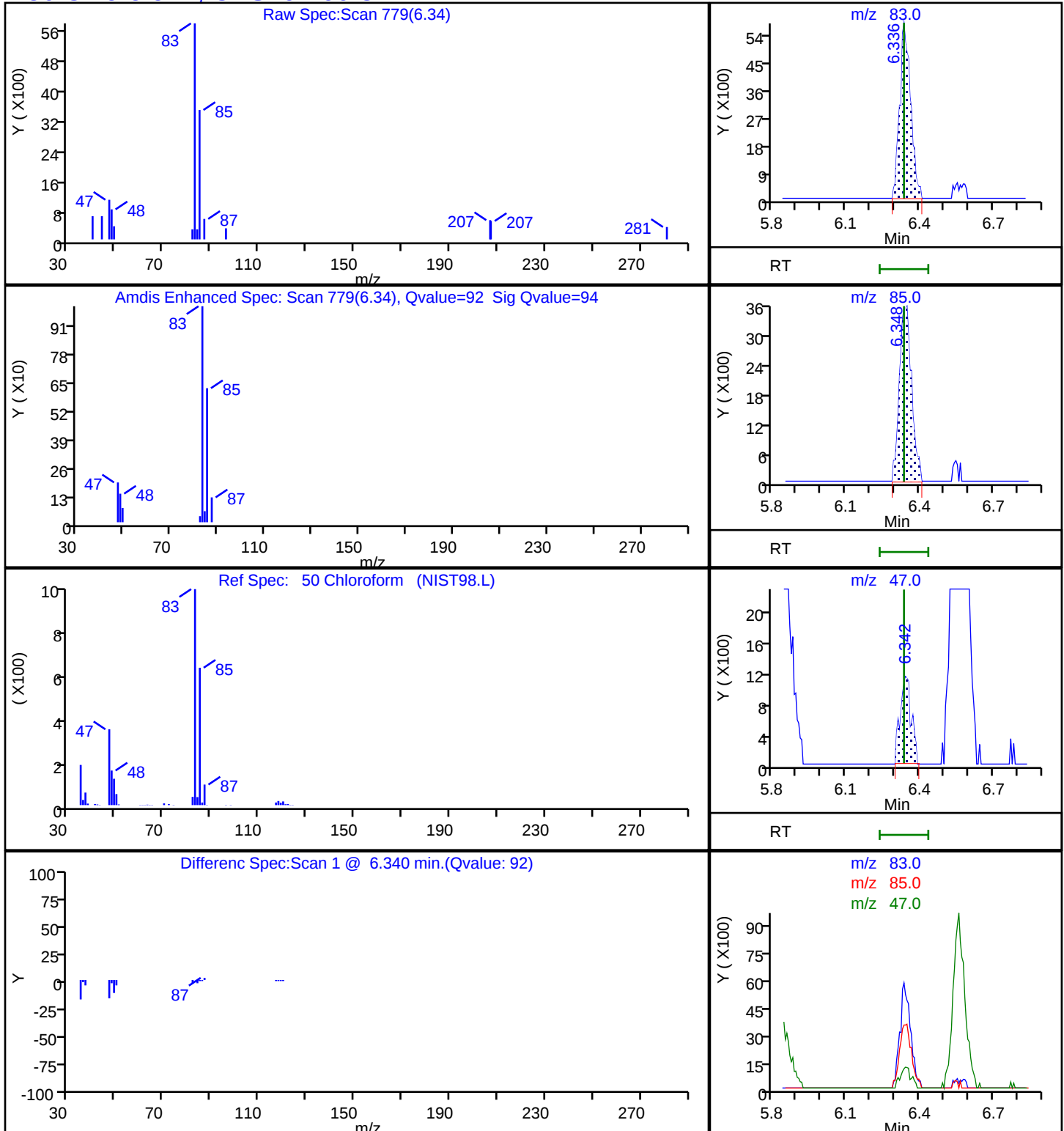
Dil. Factor: 1.0000

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\20240827-123379.b\HG27X54.D

Injection Date: 28-Aug-2024 04:54:30

Instrument ID: 19094

Lims ID: 410-185105-A-13

Lab Sample ID: 410-185105-13

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

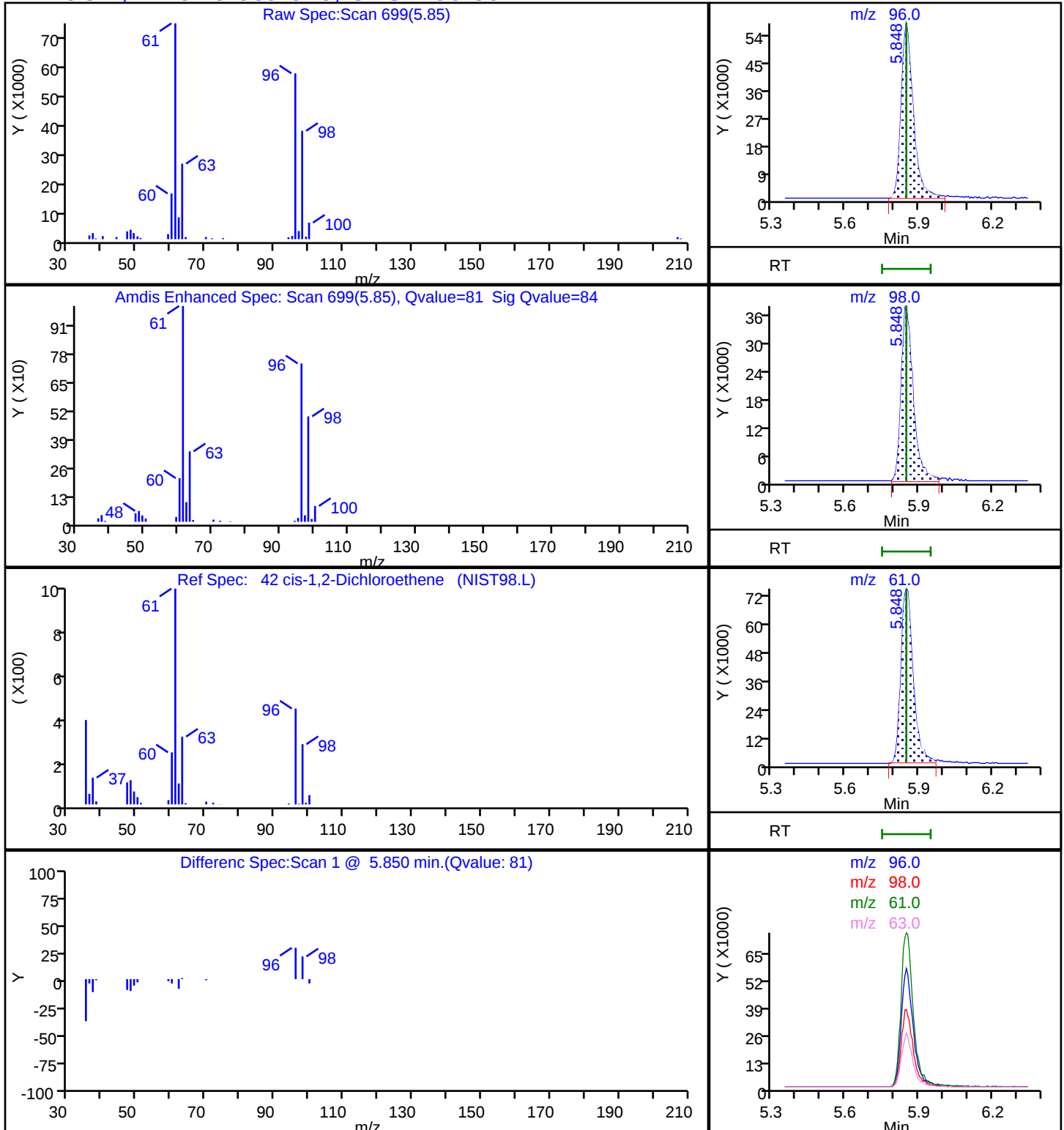
Dil. Factor: 1.0000

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\20240827-123379.b\HG27X54.D

Injection Date: 28-Aug-2024 04:54:30

Instrument ID: 19094

Lims ID: 410-185105-A-13

Lab Sample ID: 410-185105-13

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

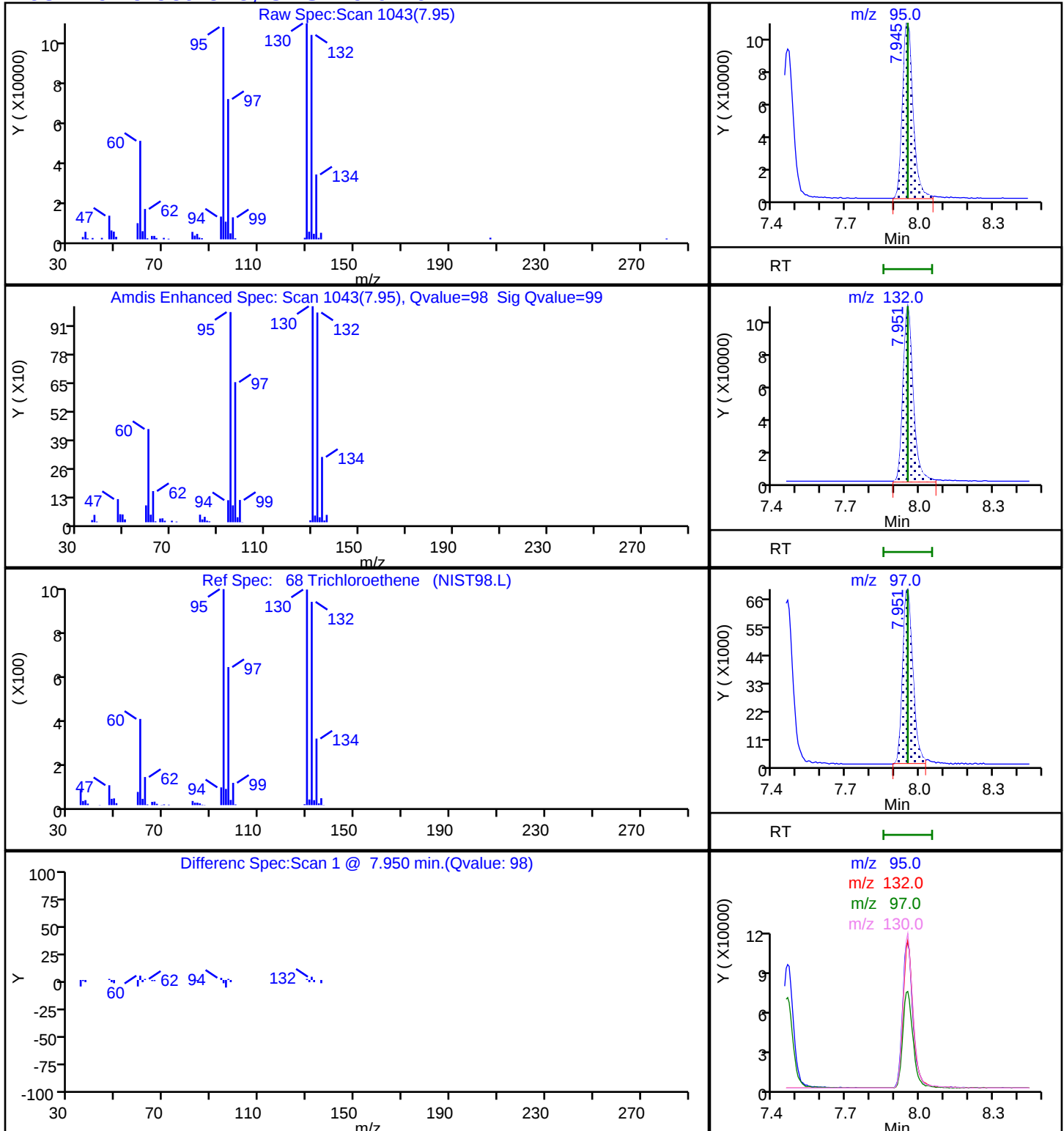
Dil. Factor: 1.0000

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

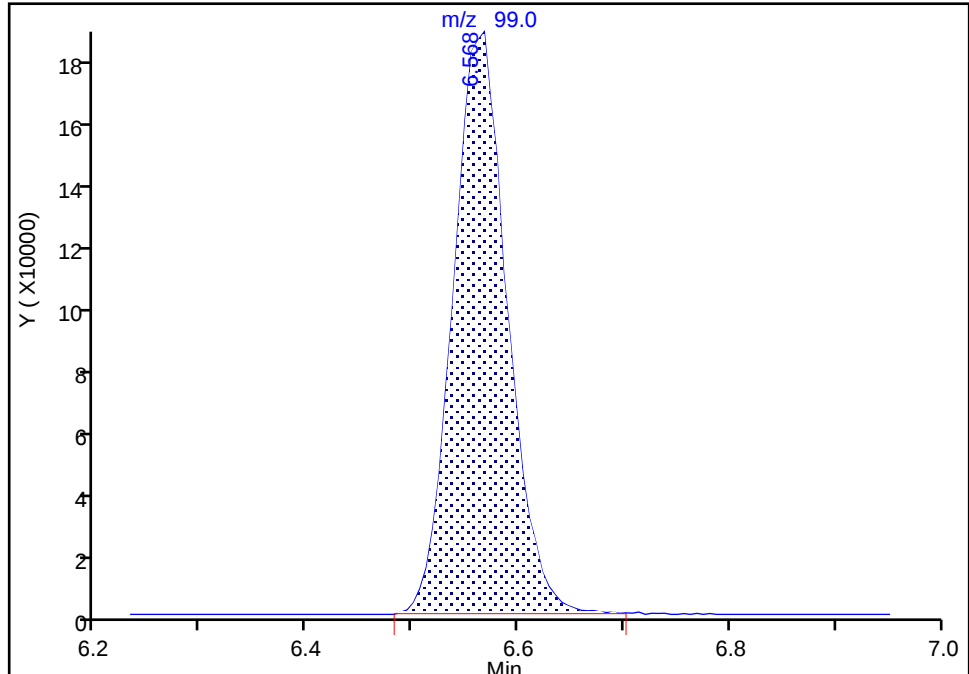
Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X54.D
Injection Date: 28-Aug-2024 04:54:30 Instrument ID: 19094
Lims ID: 410-185105-A-13 Lab Sample ID: 410-185105-13
Client ID: HD-QC1-0/1-1
Operator ID: gaw91131 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 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

Signal: 2

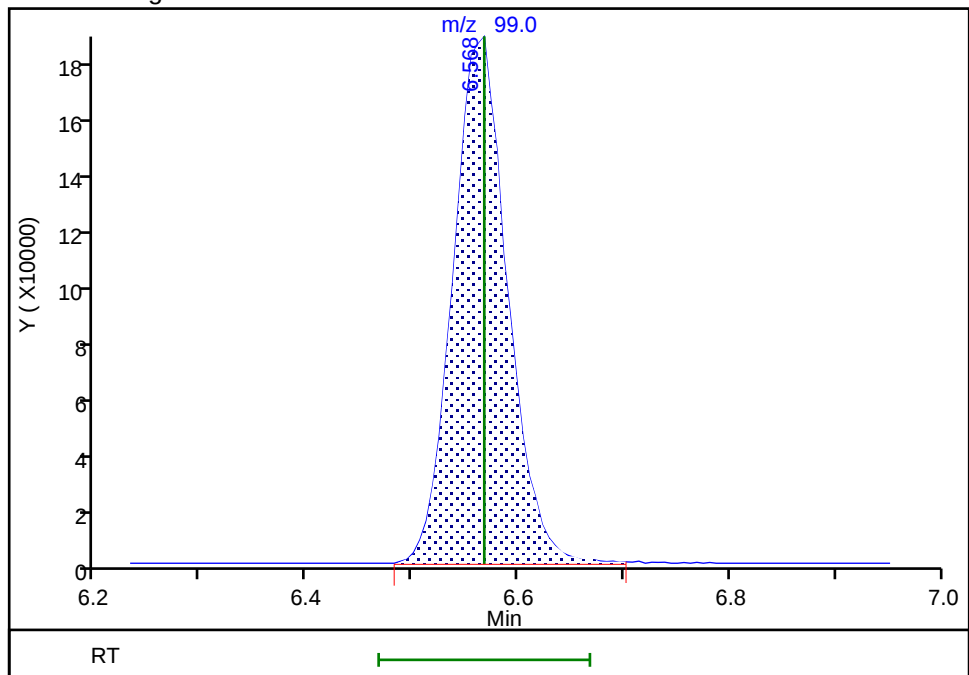
RT: 6.57
Area: 679915
Amount: 10.120626
Amount Units: ug/l

Processing Integration Results



RT: 6.57
Area: 679915
Amount: 10.120626
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 28-Aug-2024 13:11:59 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-13 DL

Matrix: Water

Lab File ID: HG27X55.D

Analysis Method: 8260D

Date Collected: 08/20/2024 12:00

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 05:14

Soil Aliquot Vol:

Dilution Factor: 10

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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	120		5.0	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		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\20240827-123379.b\HG27X55.D
 Lims ID: 410-185105-B-13 DL
 Client ID: HD-QC1-0/1-1
 Sample Type: Client
 Inject. Date: 28-Aug-2024 05:14:30 ALS Bottle#: 25 Worklist Smp#: 26
 Purge Vol: 25.000 mL Dil. Factor: 10.0000
 Sample Info: 410-0123379-026
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Aug-2024 13:13:37 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1632

First Level Reviewer: DVW2

Date: 28-Aug-2024 13:12:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.062				ND	
6 Vinyl chloride	62		2.172				ND	7
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.544				ND	
17 1,1-Dichloroethene	96	3.343	3.343	0.000	92	3366	0.0614	
19 Acetone	43		3.361				ND	
23 Carbon disulfide	76		3.629				ND	7
* 28 t-Butyl alcohol-d10 (IS)	65	3.952	3.952	0.000	26	165284	50.0	
27 Methylene Chloride	84	3.958	3.952	0.006	32	2538	0.0372	
32 Methyl tert-butyl ether	73		4.336				ND	
33 trans-1,2-Dichloroethene	96		4.355				ND	
36 1,1-Dichloroethane	63	5.007	5.007	0.000	95	20028	0.1636	
41 2-Butanone (MEK)	43		5.818				ND	
42 cis-1,2-Dichloroethene	96	5.873	5.848	0.024	78	16712	0.2291	
48 Chlorobromomethane	128		6.183				ND	
50 Chloroform	83		6.336				ND	7
\$ 52 Dibromofluoromethane (Surr)	113	6.555	6.555	0.000	93	731174	9.84	
53 1,1,1-Trichloroethane	97	6.567	6.567	0.000	40	89420	0.8629	
56 Carbon tetrachloride	117		6.787				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.013	0.000	47	142943	9.41	
59 Benzene	78		7.049				ND	7
60 1,2-Dichloroethane	62		7.122				ND	
* 64 Fluorobenzene (IS)	96	7.458	7.464	-0.006	99	3035794	10.0	
68 Trichloroethene	95	7.964	7.951	0.013	97	26235	0.3563	
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	
80 cis-1,3-Dichloropropene	75		9.201				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.378				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.518	9.524	-0.006	93	2988505	10.3	
84 Toluene	92		9.603				ND	7
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.170	10.170	0.000	98	999626	12.2	
109 2-Hexanone	43		10.305				ND	
111 Chlorodibromomethane	129		10.469				ND	7
112 Ethylene Dibromide	107		10.585				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	87	2238902	10.0	
115 Chlorobenzene	112		11.048				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	7
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	
120 o-Xylene	106		11.591				ND	
121 Styrene	104		11.609				ND	
122 Bromoform	173		11.768				ND	7
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	90	1070772	9.85	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	95	1170037	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_LLcentISS_00013

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 28-Aug-2024 13:14:40

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X55.D

Injection Date: 28-Aug-2024 05:14:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-185105-B-13 DL

Lab Sample ID: 410-185105-13

Worklist Smp#: 26

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

Purge Vol: 25.000 mL

Dil. Factor: 10.0000

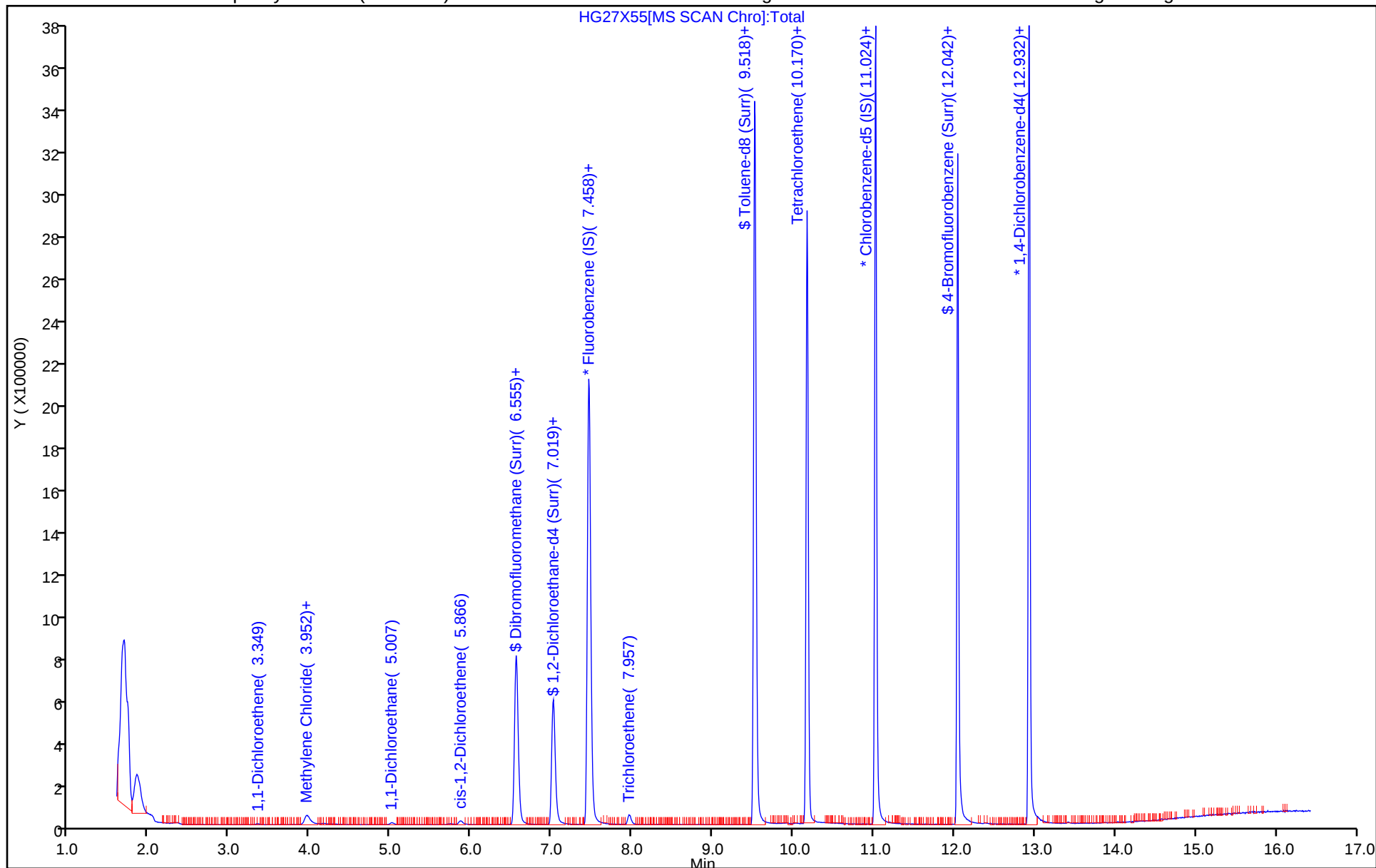
ALS Bottle#: 25

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\20240827-123379.b\HG27X55.D
Lims ID: 410-185105-B-13 DL
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 28-Aug-2024 05:14:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0123379-026
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Aug-2024 13:13:37 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: DVW2

Date: 28-Aug-2024 13:12:46

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.84	98.35
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.41	94.13
\$ 83 Toluene-d8 (Surr)	10.0	10.3	102.64
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.85	98.48

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X55.D

Injection Date: 28-Aug-2024 05:14:30

Instrument ID: 19094

Lims ID: 410-185105-B-13 DL

Lab Sample ID: 410-185105-13

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

Operator ID: gaw91131

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 25.000 mL

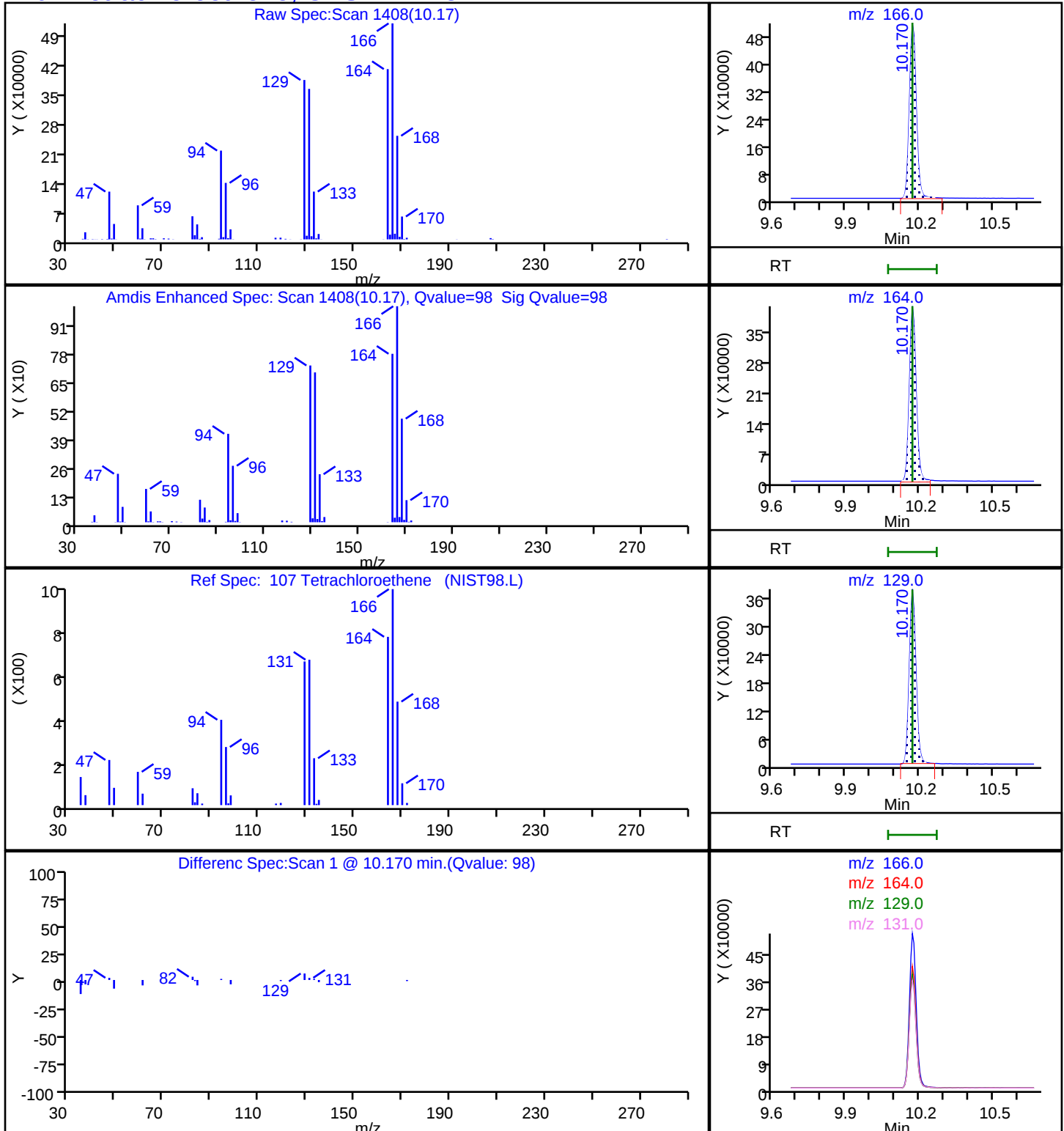
Dil. Factor: 10.0000

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.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-14

Matrix: Water

Lab File ID: HG27X38.D

Analysis Method: 8260D

Date Collected: 08/20/2024 08:00

Sample wt/vol: 25 (mL)

Date Analyzed: 08/27/2024 23:22

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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

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	^c cn	1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	0.62	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
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-14

Matrix: Water

Lab File ID: HG27X38.D

Analysis Method: 8260D

Date Collected: 08/20/2024 08:00

Sample wt/vol: 25 (mL)

Date Analyzed: 08/27/2024 23:22

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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

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)	97		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X38.D
 Lims ID: 410-185105-A-14
 Client ID: HD-QC1-0/1-2
 Sample Type: Client
 Inject. Date: 27-Aug-2024 23:22:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0123379-009
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 27-Aug-2024 23:26:26 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 12:33:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.062				ND	
6 Vinyl chloride	62		2.172				ND	7
9 Bromomethane	94		2.489				ND	
10 Chloroethane	64		2.544				ND	
17 1,1-Dichloroethene	96		3.343				ND	
19 Acetone	43		3.361				ND	7
23 Carbon disulfide	76	3.623	3.629	-0.006	99	97003	0.6152	
* 28 t-Butyl alcohol-d10 (IS)	65	3.940	3.952	-0.012	27	174523	50.0	
27 Methylene Chloride	84	3.958	3.952	0.006	34	3777	0.0548	
32 Methyl tert-butyl ether	73		4.336				ND	
33 trans-1,2-Dichloroethene	96		4.355				ND	
36 1,1-Dichloroethane	63		5.007				ND	
41 2-Butanone (MEK)	43		5.818				ND	
42 cis-1,2-Dichloroethene	96		5.848				ND	
48 Chlorobromomethane	128		6.183				ND	
50 Chloroform	83		6.336				ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.555	6.555	0.000	94	731190	9.74	
53 1,1,1-Trichloroethane	97		6.567				ND	
56 Carbon tetrachloride	117		6.787				ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.013	-0.001	47	148674	9.69	
59 Benzene	78		7.049				ND	7
60 1,2-Dichloroethane	62		7.122				ND	
* 64 Fluorobenzene (IS)	96	7.458	7.464	-0.006	99	3065668	10.0	
68 Trichloroethene	95		7.951				ND	
70 1,2-Dichloropropane	63		8.281				ND	
76 Dichlorobromomethane	83		8.634				ND	
80 cis-1,3-Dichloropropene	75		9.201				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.378				ND	
\$ 83 Toluene-d8 (Surr)	98	9.518	9.524	-0.006	94	3006571	10.4	
84 Toluene	92		9.603				ND	7
85 trans-1,3-Dichloropropene	75		9.872				ND	
106 1,1,2-Trichloroethane	97		10.079				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166		10.170				ND	
109 2-Hexanone	43		10.305				ND	
111 Chlorodibromomethane	129		10.469				ND	
112 Ethylene Dibromide	107		10.585				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	87	2230531	10.0	
115 Chlorobenzene	112		11.048				ND	
116 1,1,1,2-Tetrachloroethane	131		11.134				ND	
117 Ethylbenzene	91		11.140				ND	
S 118 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.256				ND	
120 o-Xylene	106		11.591				ND	
121 Styrene	104		11.609				ND	
122 Bromoform	173		11.768				ND	7
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	89	1092001	10.1	
127 1,1,2,2-Tetrachloroethane	83		12.140				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	95	1205707	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00013

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 28-Aug-2024 12:33:18

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X38.D

Injection Date: 27-Aug-2024 23:22:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-185105-A-14

Lab Sample ID: 410-185105-14

Worklist Smp#: 9

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

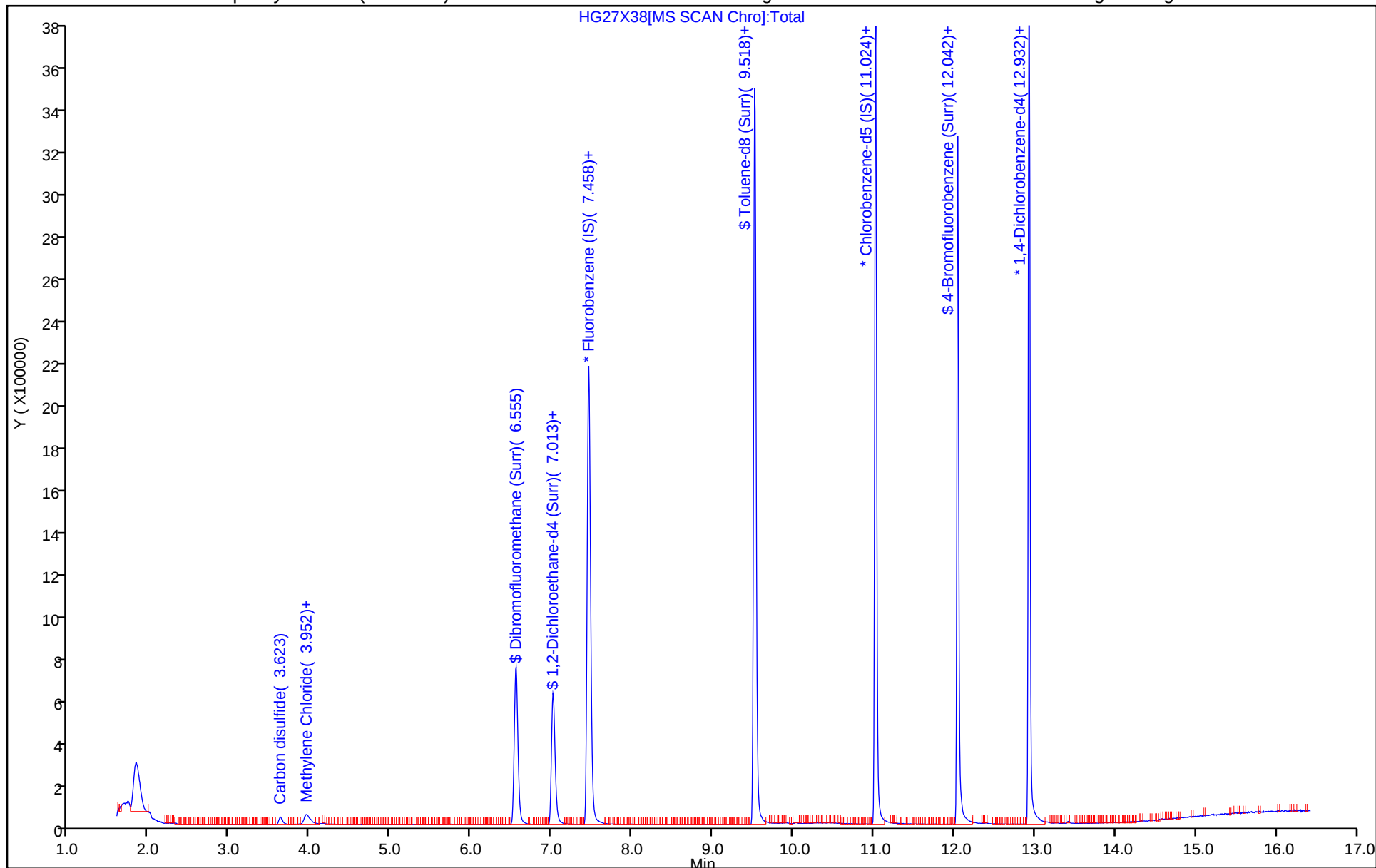
ALS Bottle#: 8

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\20240827-123379.b\HG27X38.D
Lims ID: 410-185105-A-14
Client ID: HD-QC1-0/1-2
Sample Type: Client
Inject. Date: 27-Aug-2024 23:22:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0123379-009
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 27-Aug-2024 23:26:26 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 12:33:18

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.74	97.40
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.69	96.95
\$ 83 Toluene-d8 (Surr)	10.0	10.4	103.64
\$ 126 4-Bromofluorobenzene (Surr)	10.0	10.1	100.81

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X38.D

Injection Date: 27-Aug-2024 23:22:30

Instrument ID: 19094

Lims ID: 410-185105-A-14

Lab Sample ID: 410-185105-14

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

Operator ID: gaw91131

ALS Bottle#: 8

Worklist Smp#: 9

Purge Vol: 25.000 mL

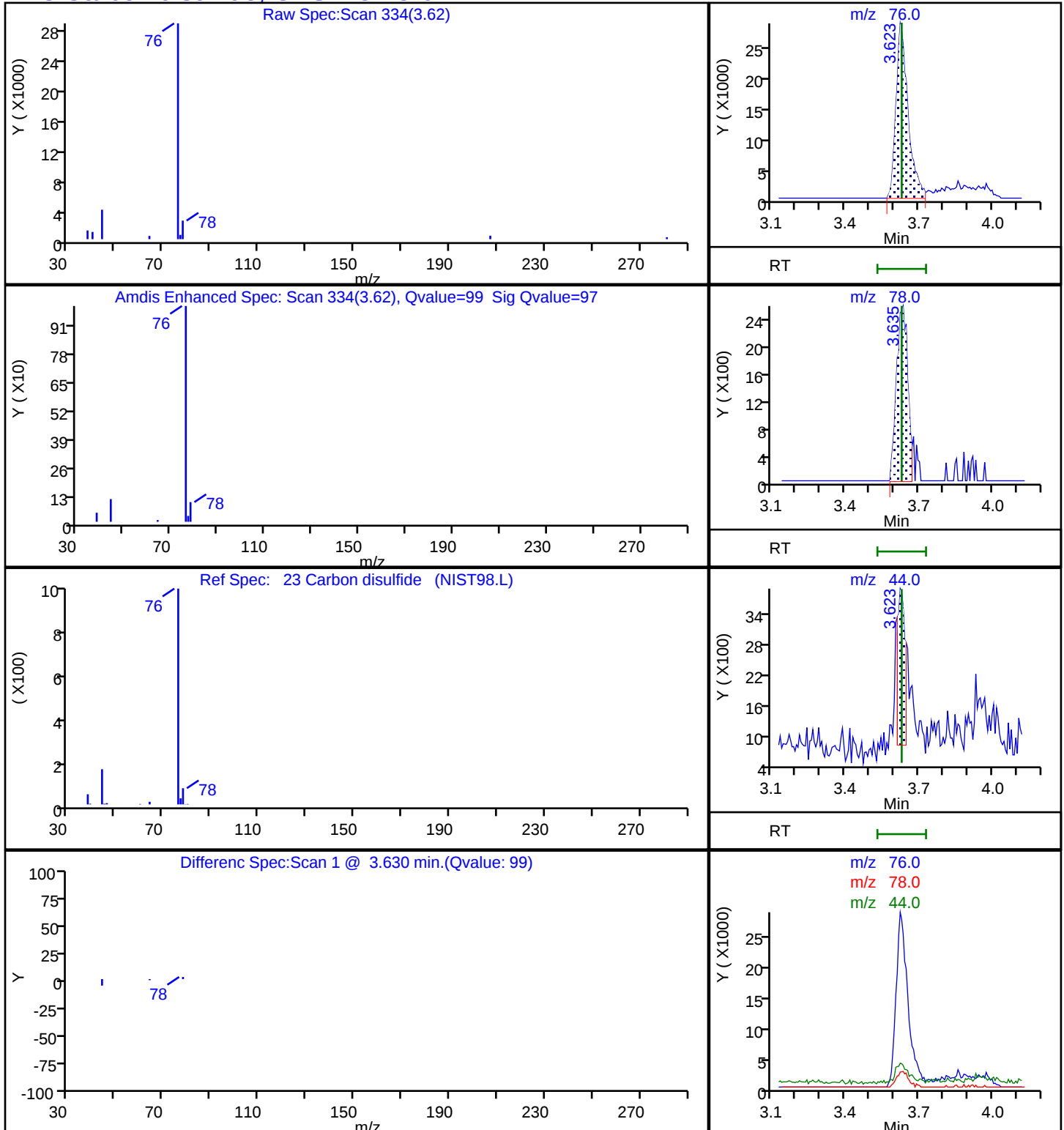
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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.: 410-185105-1 Analy Batch No.: 529291
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: 07/17/2024 14:03 Calibration End Date: 07/17/2024 16:07 Calibration ID: 63921

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-529291/3	HL17X02.D
Level 2	IC 410-529291/4	HL17X03.D
Level 3	IC 410-529291/5	HL17X04.D
Level 4	IC 410-529291/6	HL17X05.D
Level 5	IC 410-529291/7	HL17X06.D
Level 6	IC 410-529291/8	HL17X07.D
Level 7	IC 410-529291/9	HL17X08.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorodifluoromethane	0.3813 0.3257	0.3312 0.3292	0.3107	0.2904	0.3447	Ave		0.330 5				8.6		20.0			
Methoxymethane	0.4355 0.3206	0.3702 0.3024	0.3533	0.3192	0.3065	Ave		0.344 0				13.8		20.0			
Acetonitrile	++++ 0.0091	++++ 0.0079	0.0076	0.0085	0.0081	Ave		0.008 3				6.9		20.0			
Vinyl acetate	0.1781 0.2749	0.1967 0.2656	0.2525	0.2234	0.2422	Ave		0.233 3				15.4		20.0			
Ethyl acetate	++++ 0.1025	0.0664 0.0978	0.0849	0.0813	0.0906	Ave		0.087 3				14.8		20.0			
2-Chloroethyl vinyl ether	++++ 0.0624	0.0428 0.0658	0.0486	0.0546	0.0584	Ave		0.055 4				15.6		20.0			
cis-1,4-Dichloro-2-butene	0.0553 0.0817	0.0578 0.0845	0.0583	0.0694	0.0741	Ave		0.068 7				17.4		20.0			
Cyclohexanone	0.1214 0.2615	0.1778 0.2562	0.1986	0.2238	0.2355	Lin	-2.54 5	0.258 9							1.0000		0.9900

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.: 410-185105-1 Analy Batch No.: 529291
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 14:03 Calibration End Date: 07/17/2024 16:07 Calibration ID: 63921

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-529291/3	HL17X02.D
Level 2	IC 410-529291/4	HL17X03.D
Level 3	IC 410-529291/5	HL17X04.D
Level 4	IC 410-529291/6	HL17X05.D
Level 5	IC 410-529291/7	HL17X06.D
Level 6	IC 410-529291/8	HL17X07.D
Level 7	IC 410-529291/9	HL17X08.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorodifluoromethane	FB	Ave	15691 683305	34475 1753716	65027	121242	364311	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methoxymethane	FB	Ave	17924 672649	38533 1610639	73952	133245	323925	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetonitrile	FB	Ave	++++ 95496	++++ 211065	7976	17734	43052	++++ 50.0	++++ 125	5.00	10.0	25.0
Vinyl acetate	FB	Ave	7330 576715	20476 1414913	52844	93238	256035	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl acetate	FB	Ave	++++ 215122	6912 521003	17776	33957	95707	++++ 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloroethyl vinyl ether	FB	Ave	++++ 130915	4451 350534	10166	22776	61749	++++ 10.0	0.500 25.0	1.00	2.00	5.00
cis-1,4-Dichloro-2-butene	CBZd5	Ave	3449 258174	9029 682170	18496	43976	118698	0.400 20.0	1.000 50.0	2.00	4.00	10.00
Cyclohexanone	TBA d1 0	Lin	2386 263745	9112 630647	19332	46510	114454	10.0 500	25.0 1250	50.0	100	250

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1 Analy Batch No.: 529291
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: 07/17/2024 14:03 Calibration End Date: 07/17/2024 16:07 Calibration ID: 63921

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-529291/3	HL17X02.D
Level 2	IC 410-529291/4	HL17X03.D
Level 3	IC 410-529291/5	HL17X04.D
Level 4	IC 410-529291/6	HL17X05.D
Level 5	IC 410-529291/7	HL17X06.D
Level 6	IC 410-529291/8	HL17X07.D
Level 7	IC 410-529291/9	HL17X08.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Chlorodifluoromethane	15.4 -0.4	0.2	-6.0	-12.1	4.3	-1.4	50 30	30	30	30	30	30
Methoxymethane	26.6 -12.1	7.6	2.7	-7.2	-10.9	-6.8	50 30	30	30	30	30	30
Acetonitrile	++++ -4.0	++++	-7.7	2.9	-1.4	10.2	30		50	30	30	30
Vinyl acetate	-23.7 13.8	-15.7	8.2	-4.3	3.8	17.8	50 30	30	30	30	30	30
Ethyl acetate	++++ 12.1	-23.9	-2.7	-6.8	3.8	17.5	30	50	30	30	30	30
2-Chloroethyl vinyl ether	++++ 18.7	-22.8	-12.4	-1.6	5.4	12.6	30	50	30	30	30	30
cis-1,4-Dichloro-2-butene	-19.6 22.9	-16.0	-15.1	1.0	7.9	18.9	50 30	30	30	30	30	30
Cyclohexanone	45.2 -0.2	8.0	-3.6	-3.7	-5.1	3.0	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X02.D
 Lims ID: IC std1 0.2
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 17-Jul-2024 14:03:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119602-003
 Misc. Info.: sm .2
 Operator ID: knk41612 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub52
 Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 18-Jul-2024 22:30:36 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1666

First Level Reviewer: DVW2

Date: 18-Jul-2024 08:33:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.837	1.849	-0.012	91	5783	0.2000	0.1934	
3 Chlorodifluoromethane	51	1.892	1.898	-0.006	93	15691	0.2000	0.2307	
4 Dimethyl ether	45	1.947	1.947	0.000	96	17924	0.2000	0.2532	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.245	2.239	0.006	47	11819	0.2000	0.2092	M
25 Acetonitrile	41	3.806	3.763	0.043	63	1876	1.00	1.10	M
* 28 t-Butyl alcohol-d10 (IS)	65	3.958	3.970	-0.012	28	98302	50.0	50.0	
35 Vinyl acetate	43	5.098	5.025	0.073	37	7330	0.2000	0.1527	M
45 Ethyl acetate	43	5.995	5.909	0.086	1	1603	0.2000	0.0893	
61 Isopropyl acetate	43	7.159	7.147	0.012	71	9058	0.2000	0.1874	
* 64 Fluorobenzene (IS)	96	7.464	7.470	-0.006	99	2057737	10.0	10.0	
75 n-Propyl acetate	61	8.543	8.470	0.073	10	104	0.2000	0.2306	M
78 2-Chloroethyl vinyl ether	63	9.079	9.018	0.061	1	1274	0.2000	0.1117	
110 n-Butyl acetate	43	10.494	10.439	0.055	25	4009	0.2000	0.2194	M
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	1560374	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.951	11.945	0.006	27	3449	0.3999	0.3216	
125 Cyclohexanone	55	11.987	11.969	0.018	78	2386	10.0	14.5	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	95	870282	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00038	Amount Added: 0.20	Units: uL
MSV_CCV_CYC_00009	Amount Added: 1.60	Units: uL
MSV_V_SMRV4_00072	Amount Added: 1.00	Units: uL
MSV_DME_00056	Amount Added: 0.20	Units: uL
MSV_LLcentISO_00008	Amount Added: 5.00	Units: uL

Report Date: 18-Jul-2024 22:30:36

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X02.D

Injection Date: 17-Jul-2024 14:03:30

Instrument ID: 19094

Operator ID: knk41612

Lims ID: IC std1 0.2

Worklist Smp#: 3

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

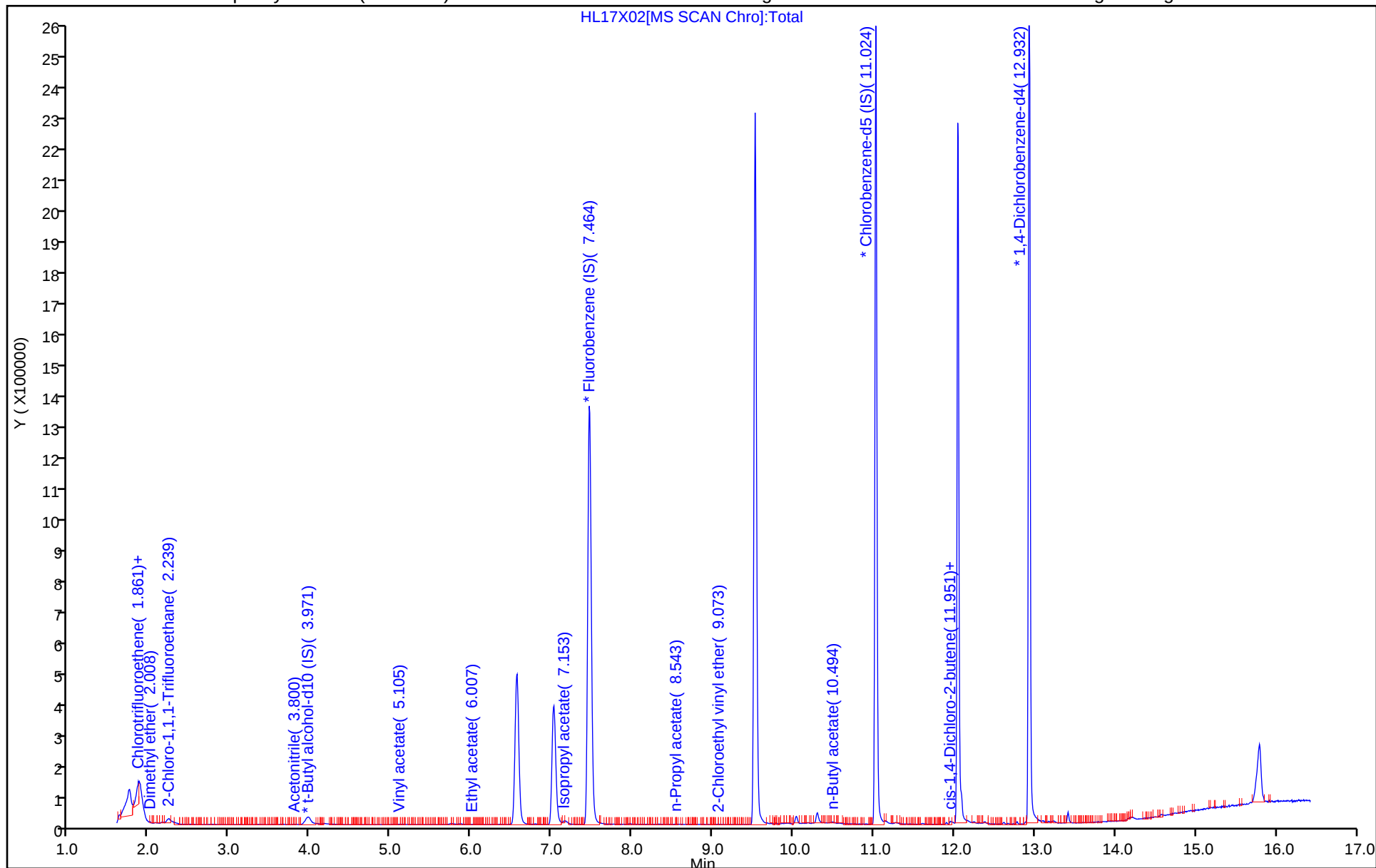
ALS Bottle#: 2

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

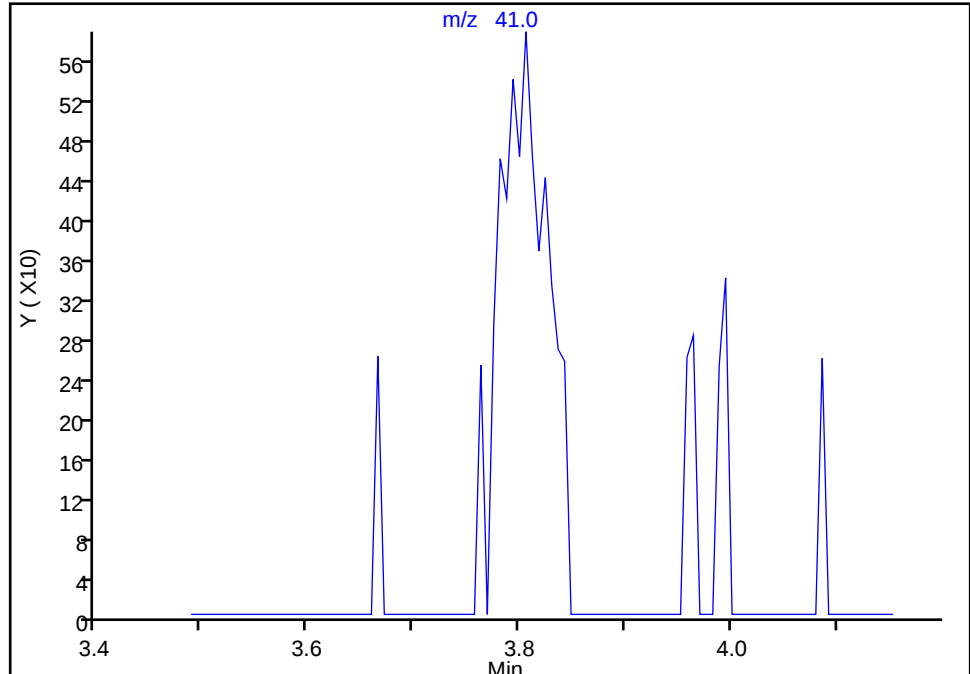
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X02.D
Injection Date: 17-Jul-2024 14:03:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

25 Acetonitrile, CAS: 75-05-8

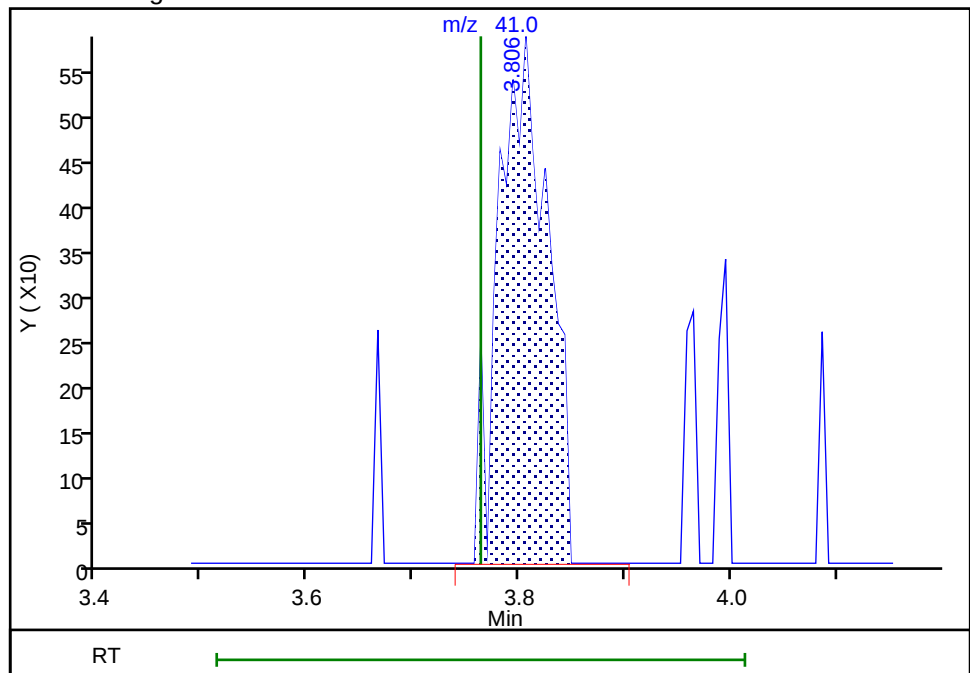
Signal: 1

Not Detected
Expected RT: 3.76

Processing Integration Results



Manual Integration Results



RT: 3.81
Area: 1876
Amount: 1.103910
Amount Units: ug/l

Reviewer: DVW2, 18-Jul-2024 08:33:04 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

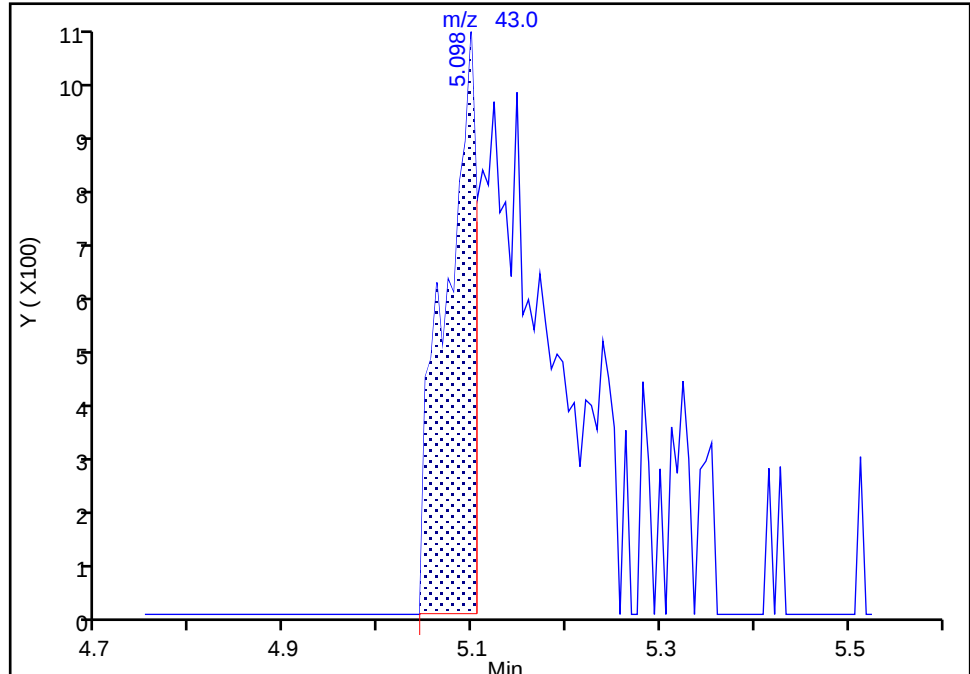
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X02.D
Injection Date: 17-Jul-2024 14:03:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

35 Vinyl acetate, CAS: 108-05-4

Signal: 1

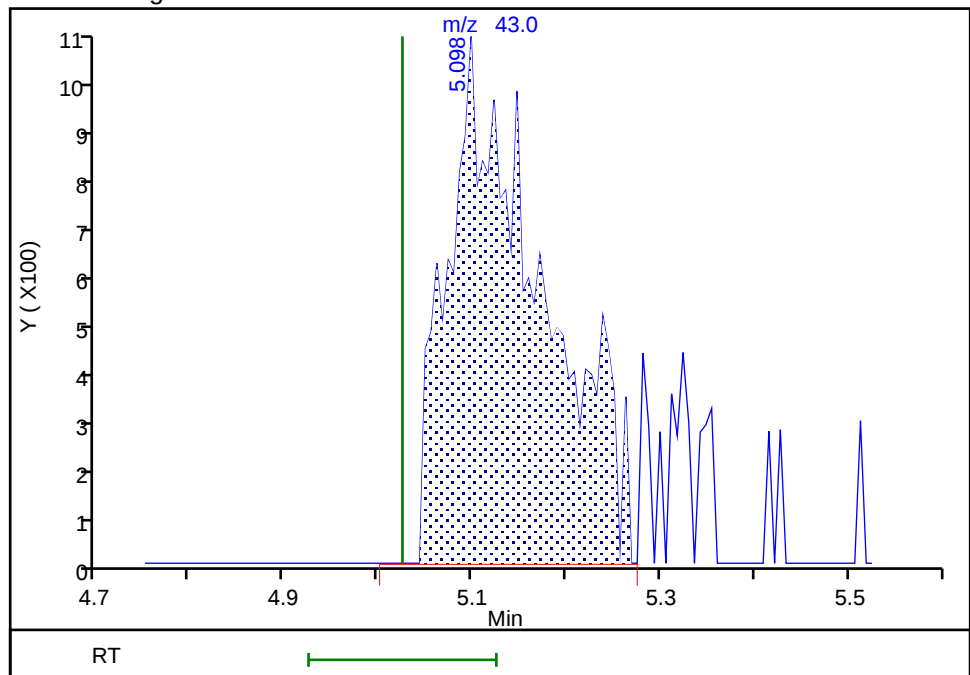
RT: 5.10
Area: 2420
Amount: 0.288685
Amount Units: ug/l

Processing Integration Results



RT: 5.10
Area: 7330
Amount: 0.152653
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:33:11 -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\20240717-119602.b\HL17X03.D
 Lims ID: IC std2 0.5
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 17-Jul-2024 14:24:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119602-004
 Misc. Info.: sm .5
 Operator ID: knk41612 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub52
 Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 18-Jul-2024 22:30:37 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1666

First Level Reviewer: DVW2

Date: 18-Jul-2024 08:32:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.831	1.849	-0.018	92	15458	0.5000	0.5112	
3 Chlorodifluoromethane	51	1.886	1.898	-0.012	97	34475	0.5000	0.5012	
4 Dimethyl ether	45	1.940	1.947	-0.007	99	38533	0.5000	0.5382	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.227	2.239	-0.012	34	26826	0.5000	0.4694	
25 Acetonitrile	41	4.166	3.763	0.403	24	1967	2.50	1.14	M
* 28 t-Butyl alcohol-d10 (IS)	65	3.971	3.970	0.001	27	102474	50.0	50.0	
35 Vinyl acetate	43	5.074	5.025	0.049	95	20476	0.5000	0.4216	M
45 Ethyl acetate	43	5.976	5.909	0.067	3	6912	0.5000	0.3805	M
61 Isopropyl acetate	43	7.159	7.147	0.012	97	21720	0.5000	0.4442	
* 64 Fluorobenzene (IS)	96	7.464	7.470	-0.006	99	2081523	10.0	10.0	
75 n-Propyl acetate	61	8.506	8.470	0.036	89	2399	0.5000	0.4533	M
78 2-Chloroethyl vinyl ether	63	9.049	9.018	0.031	89	4451	0.5000	0.3858	
110 n-Butyl acetate	43	10.469	10.439	0.030	95	10771	0.5000	0.3808	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	1563532	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.957	11.945	0.012	27	9029	1.00	0.8403	
125 Cyclohexanone	55	11.975	11.969	0.006	86	9112	25.0	27.0	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	95	858128	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00038	Amount Added: 0.50	Units: uL
MSV_CCV_CYC_00009	Amount Added: 4.00	Units: uL
MSV_V_SMRV4_00072	Amount Added: 2.50	Units: uL
MSV_DME_00056	Amount Added: 0.50	Units: uL
MSV_LLcentISO_00008	Amount Added: 5.00	Units: uL

Report Date: 18-Jul-2024 22:30:38

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X03.D

Injection Date: 17-Jul-2024 14:24:30

Instrument ID: 19094

Operator ID: knk41612

Lims ID: IC std2 0.5

Worklist Smp#: 4

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

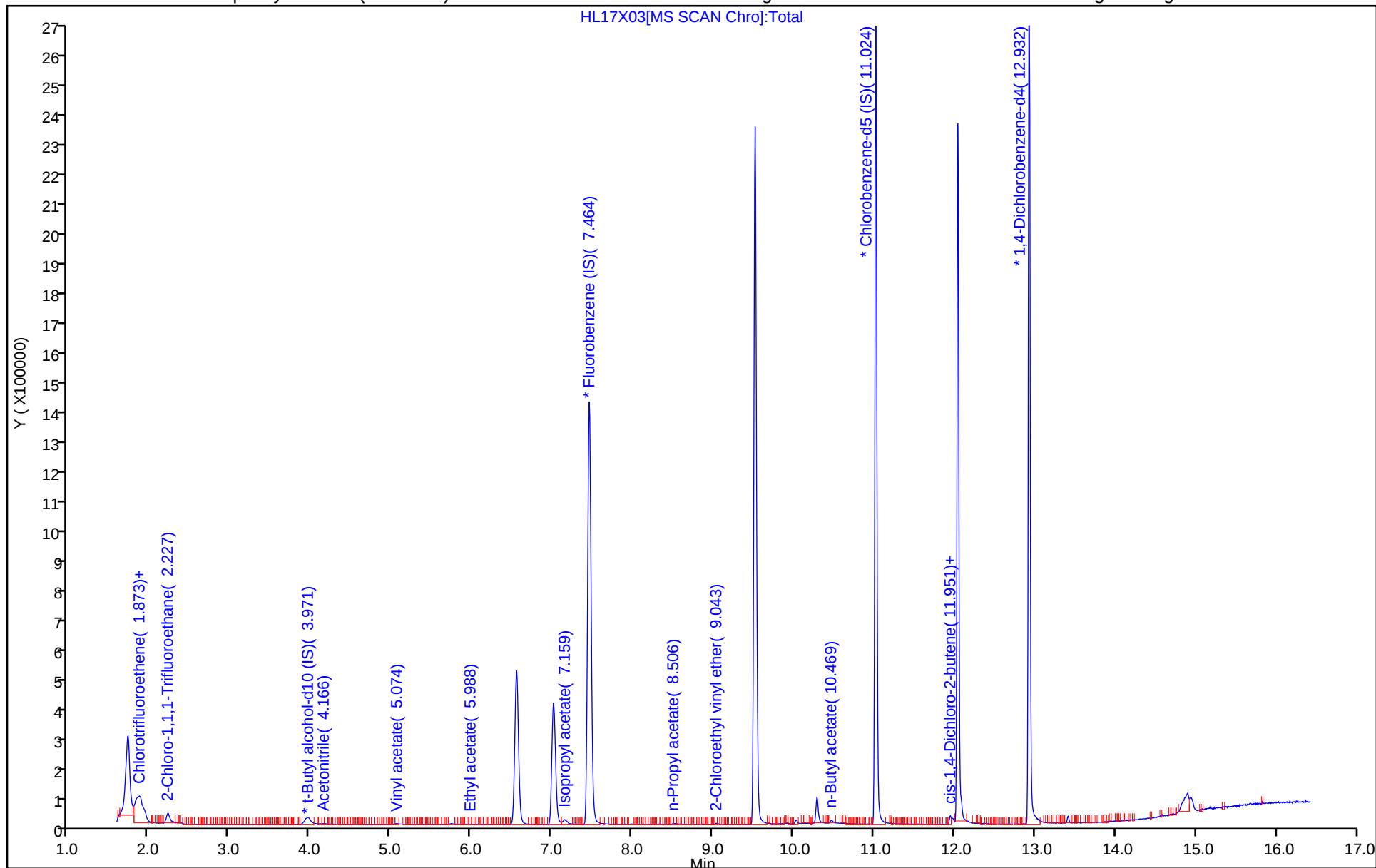
ALS Bottle#: 3

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

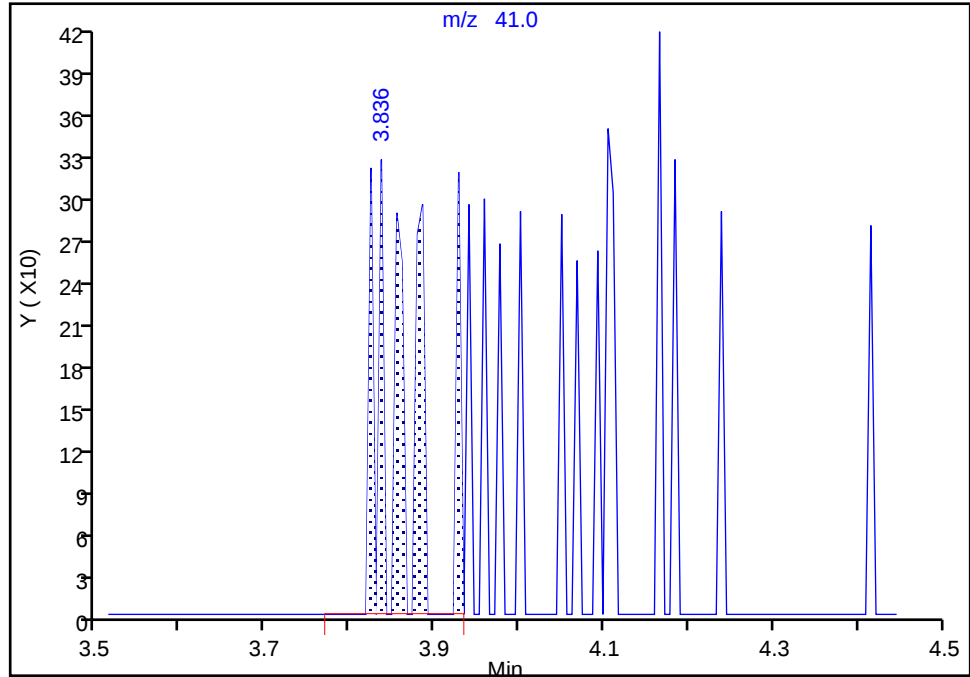
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X03.D
Injection Date: 17-Jul-2024 14:24:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Acetonitrile, CAS: 75-05-8

Signal: 1

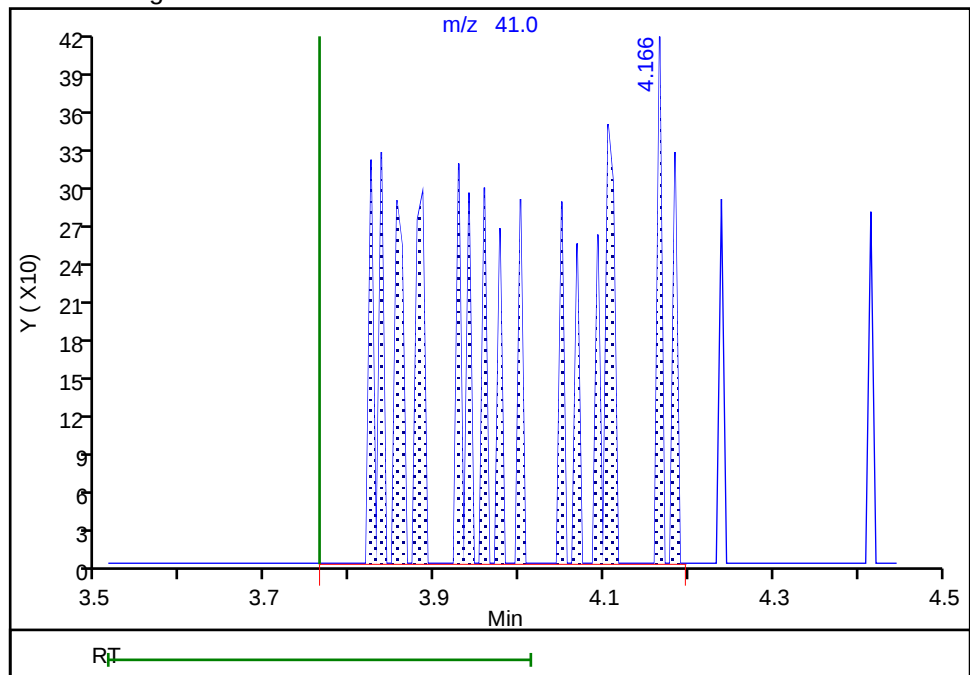
RT: 3.84
Area: 752
Amount: 1.854002
Amount Units: ug/l

Processing Integration Results



RT: 4.17
Area: 1967
Amount: 1.144232
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:32:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

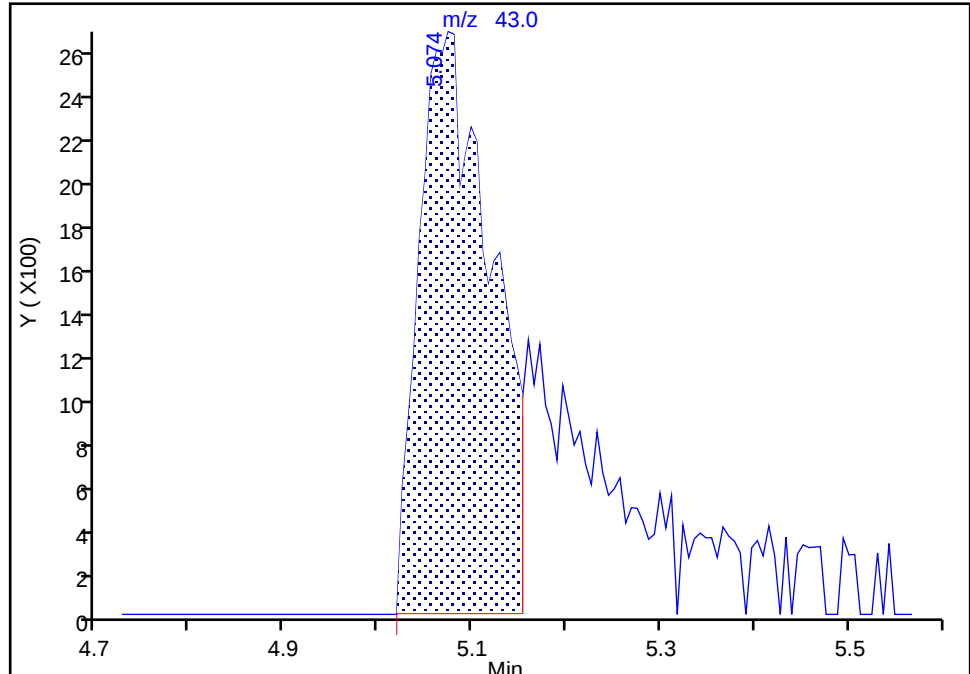
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X03.D
Injection Date: 17-Jul-2024 14:24:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

35 Vinyl acetate, CAS: 108-05-4

Signal: 1

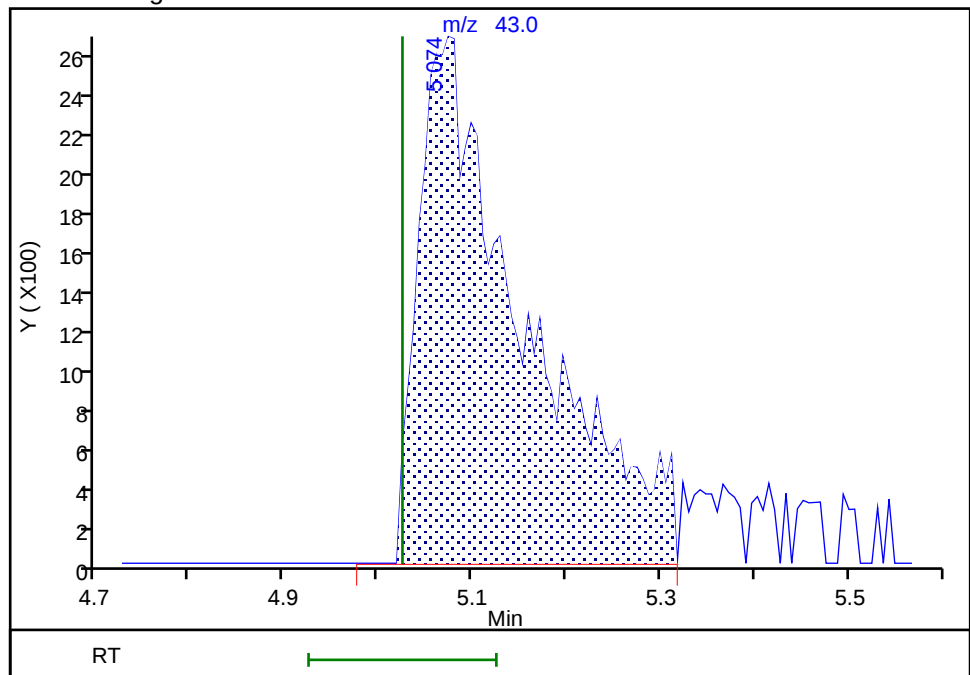
RT: 5.07
Area: 13978
Amount: 0.458755
Amount Units: ug/l

Processing Integration Results



RT: 5.07
Area: 20476
Amount: 0.421557
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:32:39 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

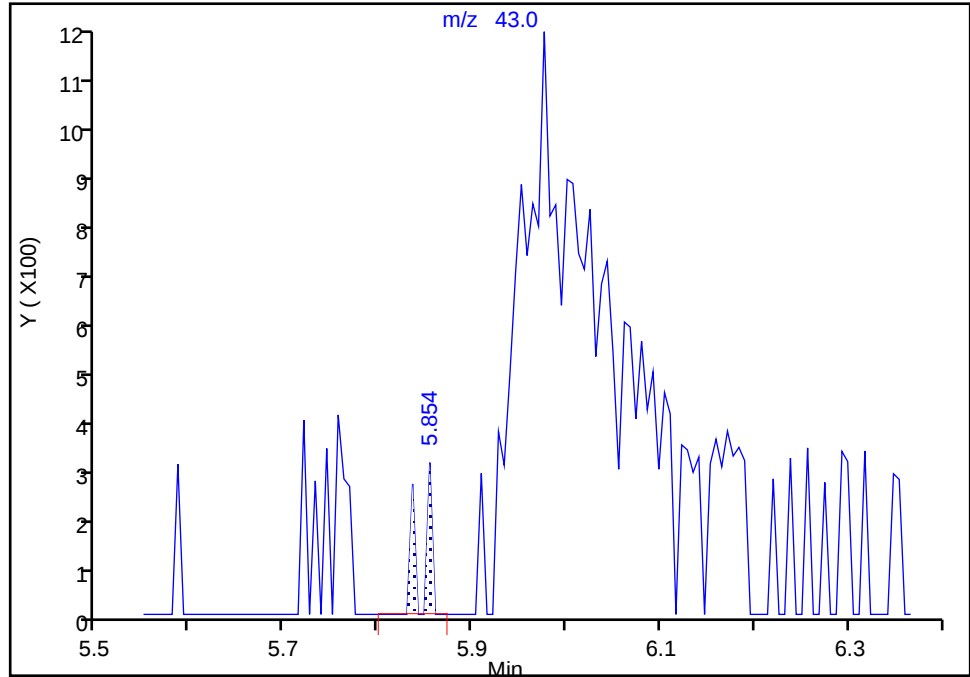
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X03.D
Injection Date: 17-Jul-2024 14:24:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

45 Ethyl acetate, CAS: 141-78-6

Signal: 1

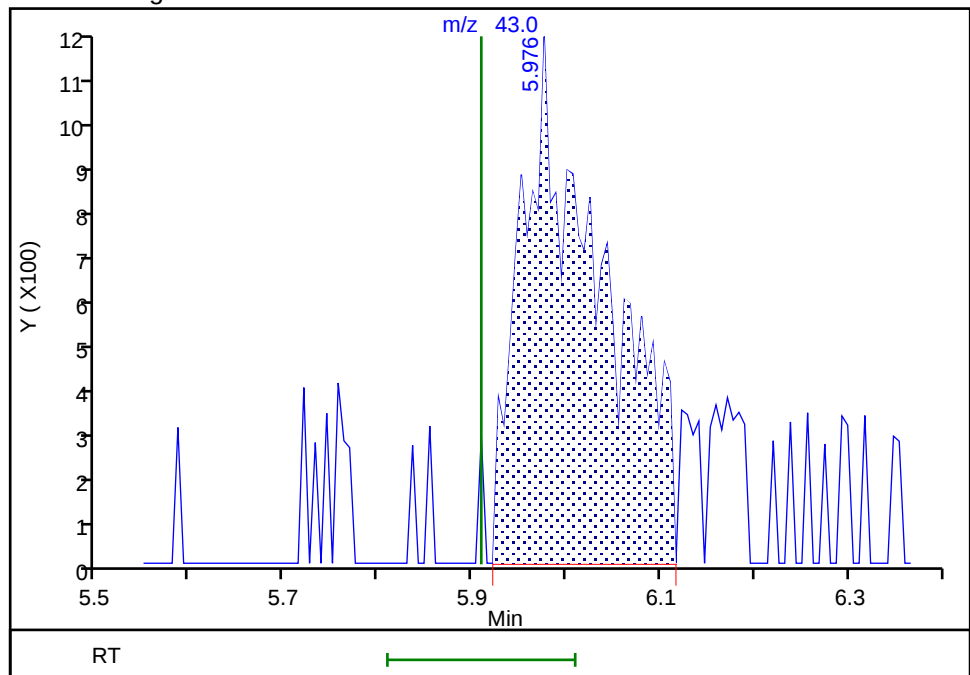
RT: 5.85
Area: 203
Amount: 0.014007
Amount Units: ug/l

Processing Integration Results



RT: 5.98
Area: 6912
Amount: 0.380524
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:32:45 -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\20240717-119602.b\HL17X04.D
 Lims ID: IC std3 1
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 17-Jul-2024 14:44:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119602-005
 Misc. Info.: sm 1
 Operator ID: knk41612 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub52
 Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 18-Jul-2024 22:30:33 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1666

First Level Reviewer: UKEK

Date: 18-Jul-2024 22:30:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.843	1.849	-0.006	92	27141	1.00	0.8926	
3 Chlorodifluoromethane	51	1.892	1.898	-0.006	97	65027	1.00	0.9401	
4 Dimethyl ether	45	1.941	1.947	-0.007	98	73952	1.00	1.03	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.233	2.239	-0.006	33	55672	1.00	0.9687	
25 Acetonitrile	41	3.824	3.763	0.061	21	7976	5.00	4.61	M
* 28 t-Butyl alcohol-d10 (IS)	65	3.965	3.970	-0.006	30	97332	50.0	50.0	
35 Vinyl acetate	43	5.062	5.025	0.037	97	52844	1.00	1.08	M
45 Ethyl acetate	43	5.928	5.909	0.019	96	17776	1.00	0.9732	
61 Isopropyl acetate	43	7.159	7.147	0.012	98	53601	1.00	1.09	
* 64 Fluorobenzene (IS)	96	7.464	7.470	-0.006	99	2093079	10.0	10.0	
75 n-Propyl acetate	61	8.506	8.470	0.036	99	9071	1.00	1.10	M
78 2-Chloroethyl vinyl ether	63	9.037	9.018	0.019	90	10166	1.00	0.8764	
110 n-Butyl acetate	43	10.457	10.439	0.018	97	31644	1.00	0.8691	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1585581	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.951	11.945	0.006	27	18496	2.00	1.70	
125 Cyclohexanone	55	11.975	11.969	0.006	89	19332	50.0	48.2	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	95	866572	10.0	10.0	

QC Flag Legend

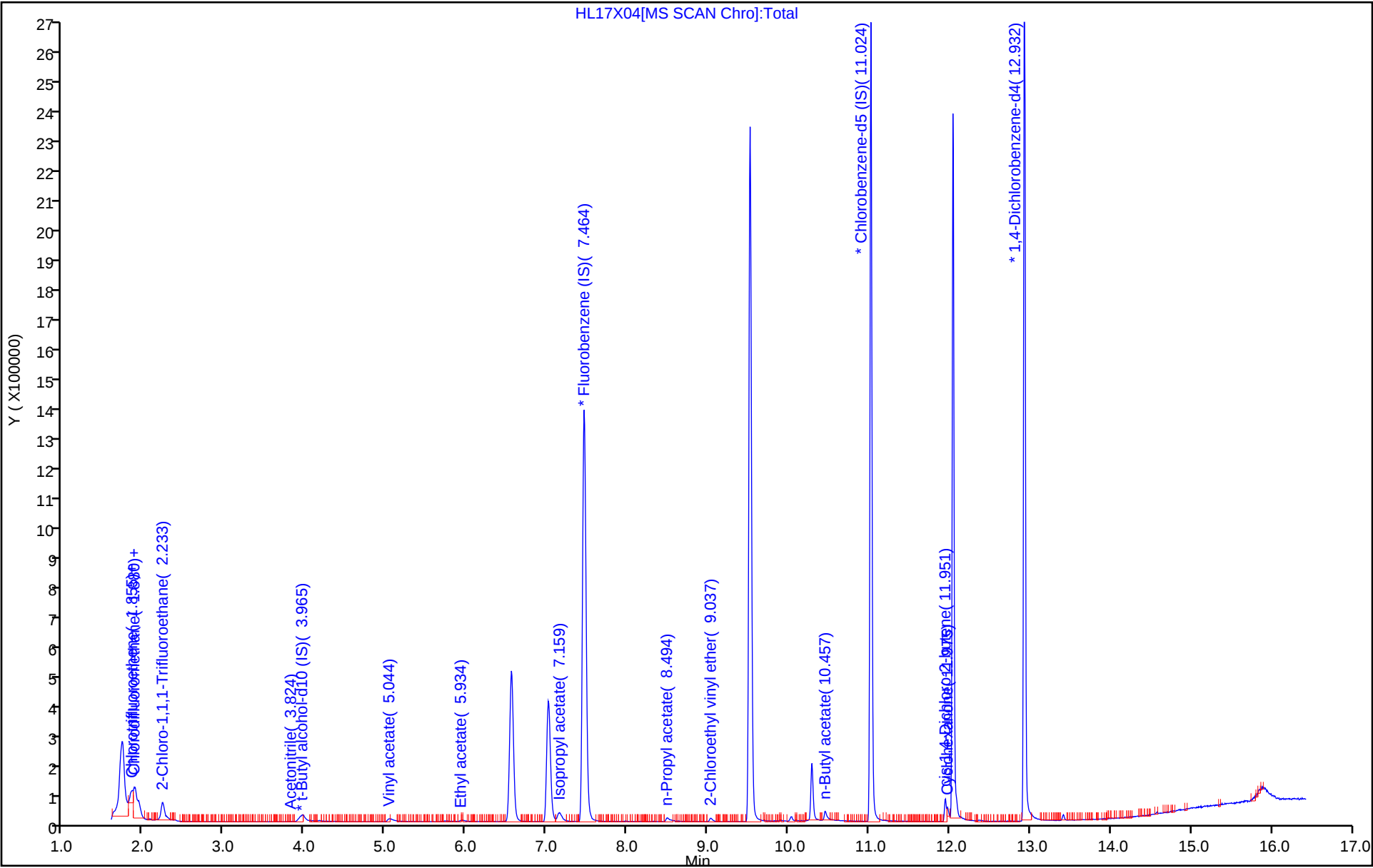
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00038	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00009	Amount Added: 8.00	Units: uL
MSV_V_SMRV4_00072	Amount Added: 5.00	Units: uL
MSV_DME_00056	Amount Added: 1.00	Units: uL
MSV_LLcentISO_00008	Amount Added: 5.00	Units: uL



Eurofins Lancaster Laboratories Environment Testing, LLC

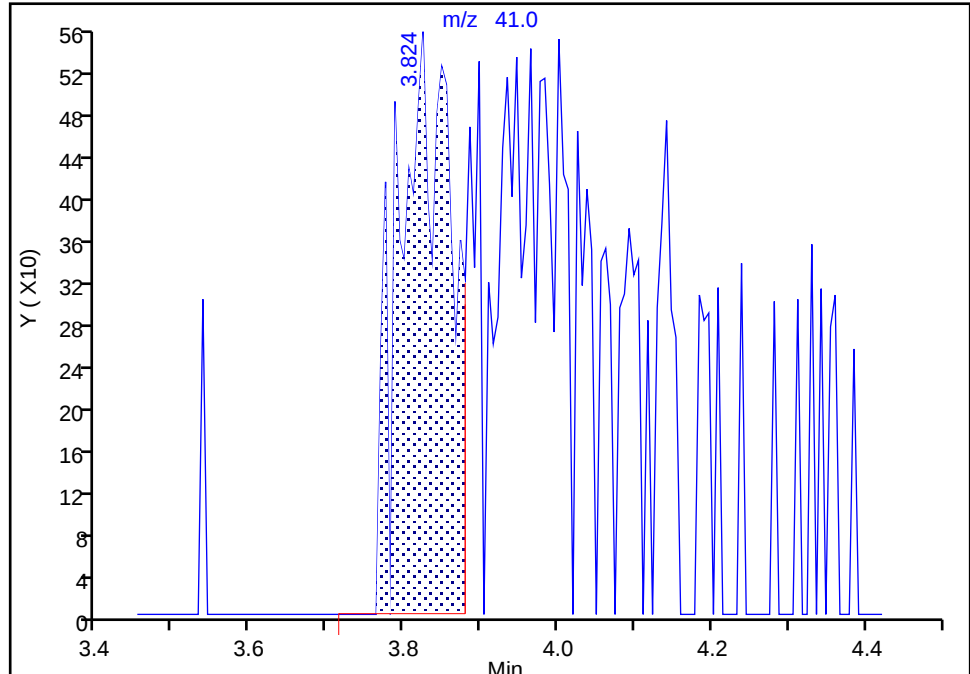
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X04.D
Injection Date: 17-Jul-2024 14:44:30 Instrument ID: 19094
Lims ID: IC std3 1
Client ID:
Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Acetonitrile, CAS: 75-05-8

Signal: 1

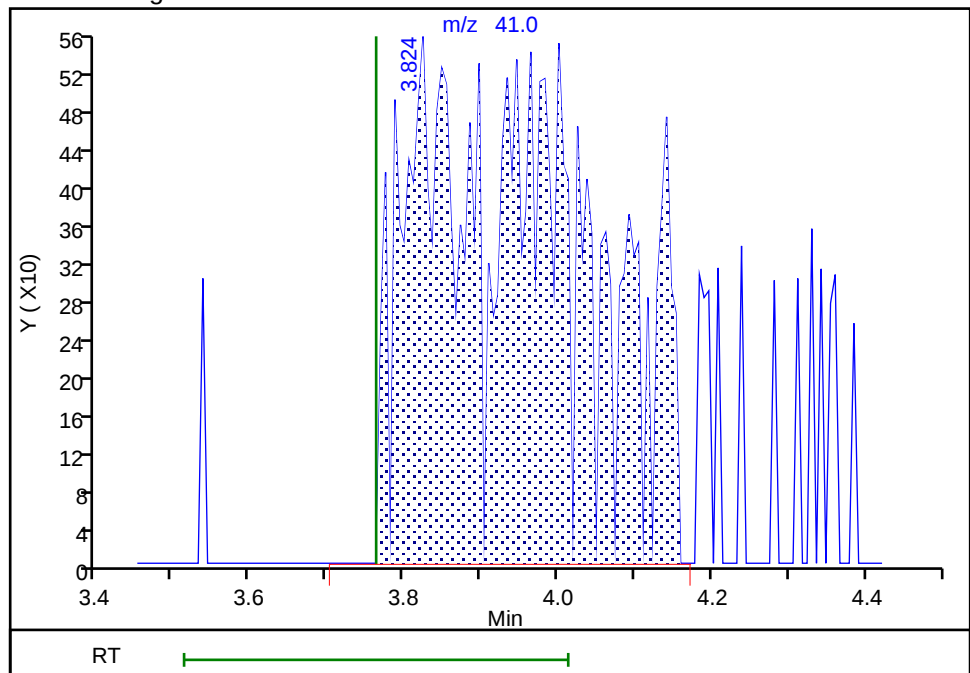
RT: 3.82
Area: 2623
Amount: 3.741579
Amount Units: ug/l

Processing Integration Results



RT: 3.82
Area: 7976
Amount: 4.614136
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:31:19 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

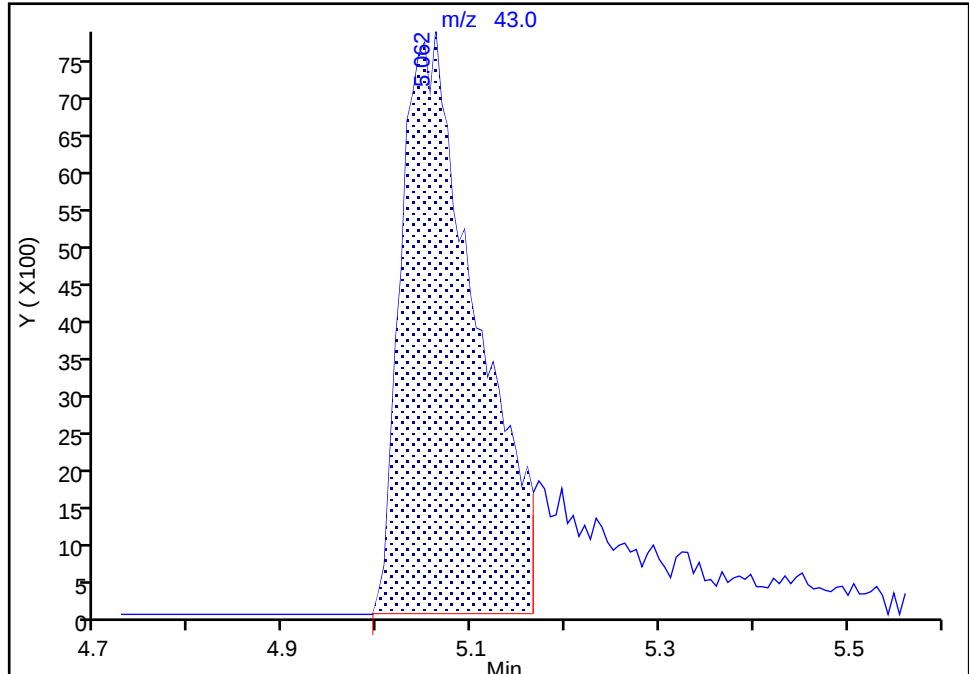
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X04.D
Injection Date: 17-Jul-2024 14:44:30 Instrument ID: 19094
Lims ID: IC std3 1
Client ID:
Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

35 Vinyl acetate, CAS: 108-05-4

Signal: 1

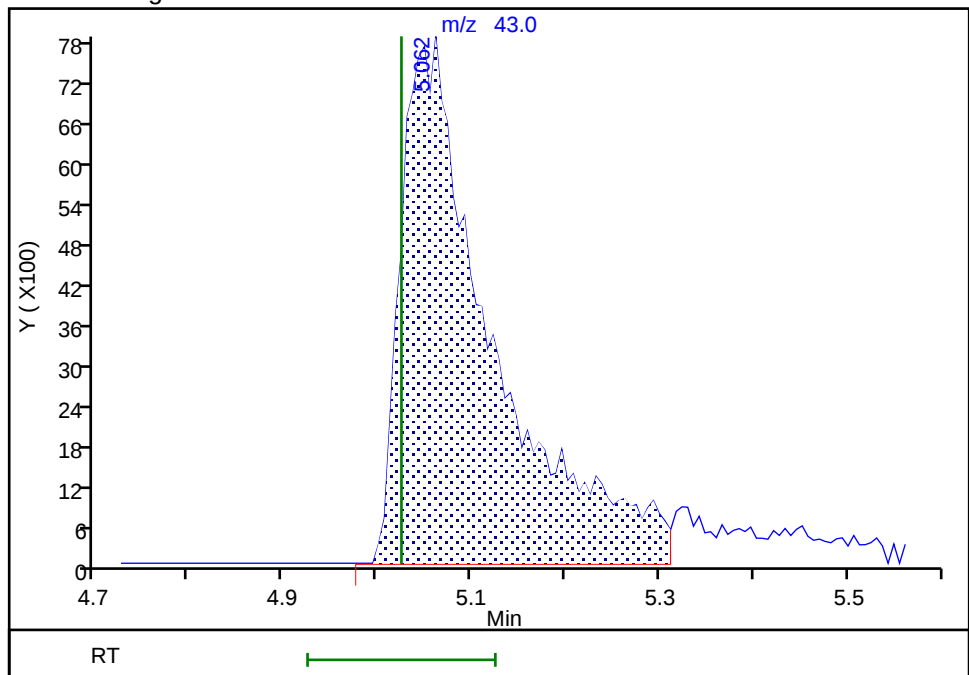
RT: 5.06
Area: 43379
Amount: 0.929027
Amount Units: ug/l

Processing Integration Results



RT: 5.06
Area: 52844
Amount: 1.081938
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:34:14 -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\20240717-119602.b\HL17X05.D
 Lims ID: IC std4 2
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 17-Jul-2024 15:05:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119602-006
 Misc. Info.: IC std4 2
 Operator ID: knk41612 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub52
 Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 18-Jul-2024 22:30:39 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1666

First Level Reviewer: DVW2

Date: 18-Jul-2024 08:30:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.837	1.849	-0.012	93	51250	2.00	1.69	
3 Chlorodifluoromethane	51	1.886	1.898	-0.012	97	121242	2.00	1.76	
4 Dimethyl ether	45	1.934	1.947	-0.013	99	133245	2.00	1.86	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.233	2.239	-0.006	34	106837	2.00	1.86	
25 Acetonitrile	41	3.830	3.763	0.067	21	17734	10.0	10.3	M
* 28 t-Butyl alcohol-d10 (IS)	65	3.977	3.970	0.007	29	103916	50.0	50.0	
35 Vinyl acetate	43	5.043	5.025	0.018	97	93238	2.00	1.91	M
45 Ethyl acetate	43	5.927	5.909	0.018	99	33957	2.00	1.86	M
61 Isopropyl acetate	43	7.153	7.147	0.006	98	95106	2.00	1.94	
* 64 Fluorobenzene (IS)	96	7.464	7.470	-0.006	99	2087244	10.0	10.0	
75 n-Propyl acetate	61	8.488	8.470	0.018	98	15842	2.00	1.75	
78 2-Chloroethyl vinyl ether	63	9.031	9.018	0.012	92	22776	2.00	1.97	
110 n-Butyl acetate	43	10.451	10.439	0.012	98	67656	2.00	1.72	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	1583767	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.945	11.945	0.000	27	43976	4.00	4.04	
125 Cyclohexanone	55	11.975	11.969	0.006	95	46510	100.0	96.3	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	95	872323	10.0	10.0	

QC Flag Legend

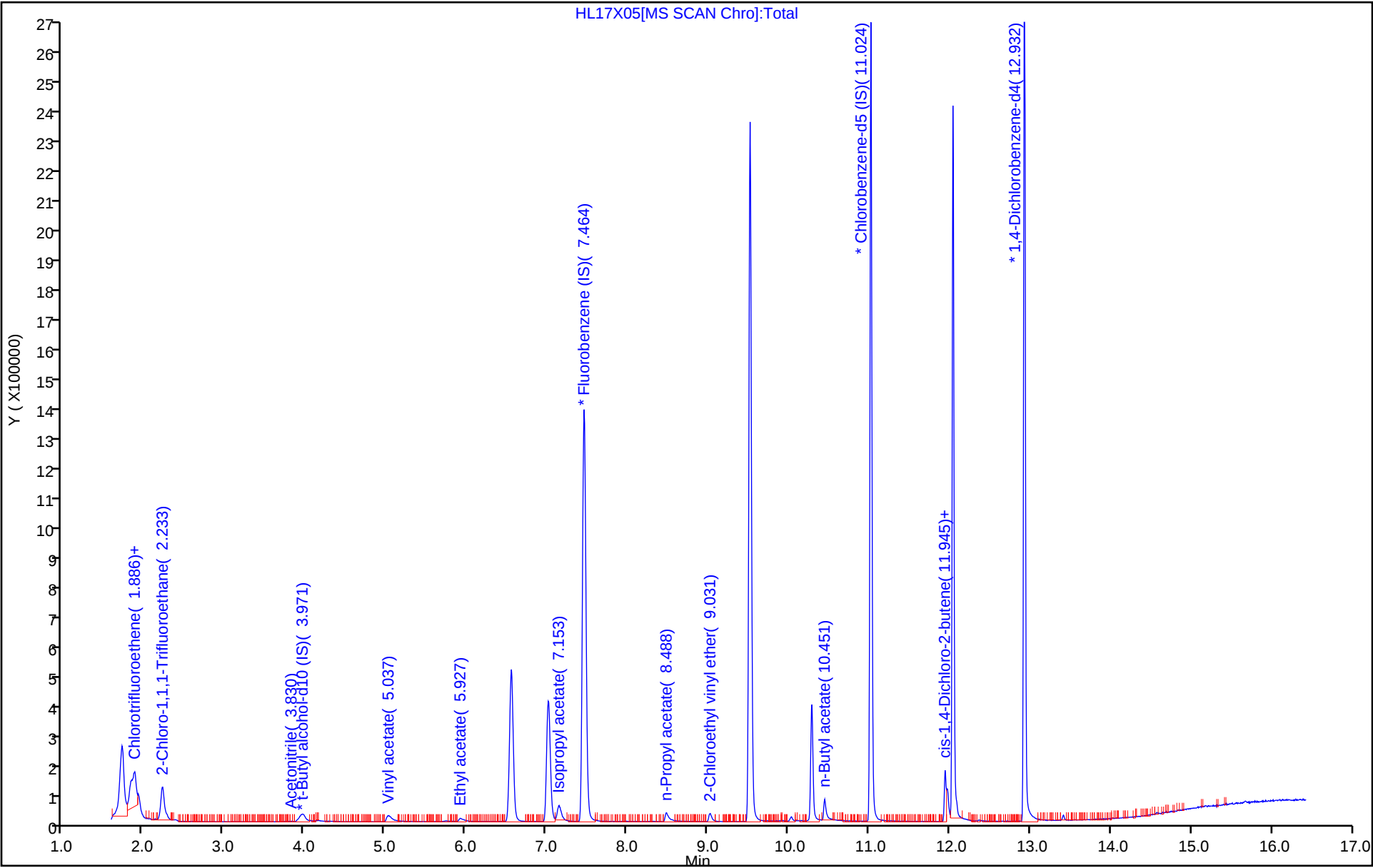
Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00038	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00009	Amount Added: 8.00	Units: uL
MSV_V_SMRV4_00072	Amount Added: 5.00	Units: uL
MSV_DME_00056	Amount Added: 1.00	Units: uL
MSV_LLcentISO_00008	Amount Added: 5.00	Units: uL



Eurofins Lancaster Laboratories Environment Testing, LLC

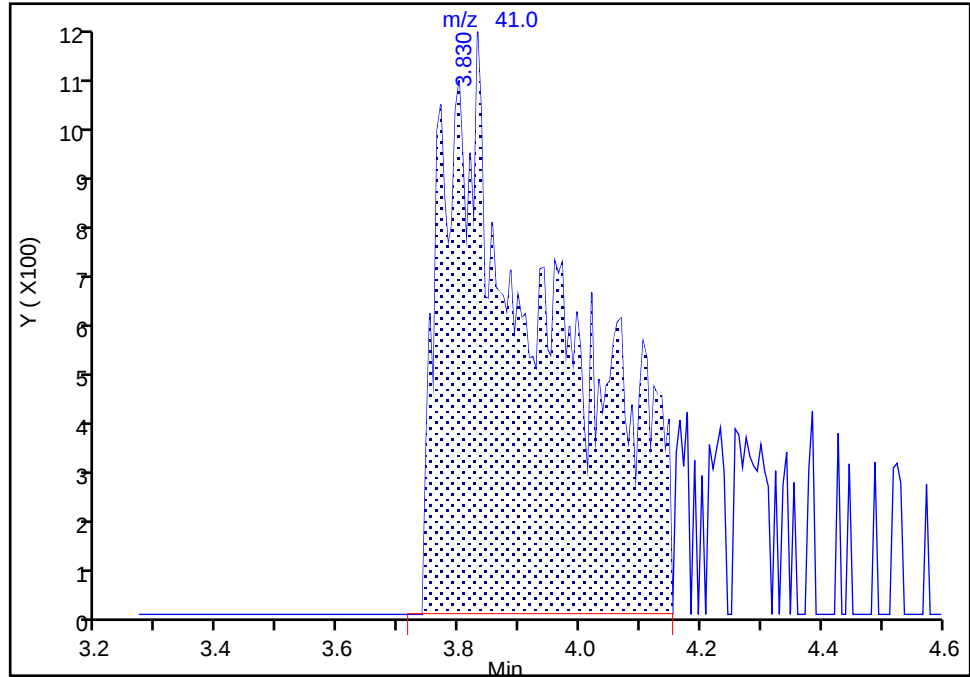
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X05.D
Injection Date: 17-Jul-2024 15:05:30 Instrument ID: 19094
Lims ID: IC std4 2
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

25 Acetonitrile, CAS: 75-05-8

Signal: 1

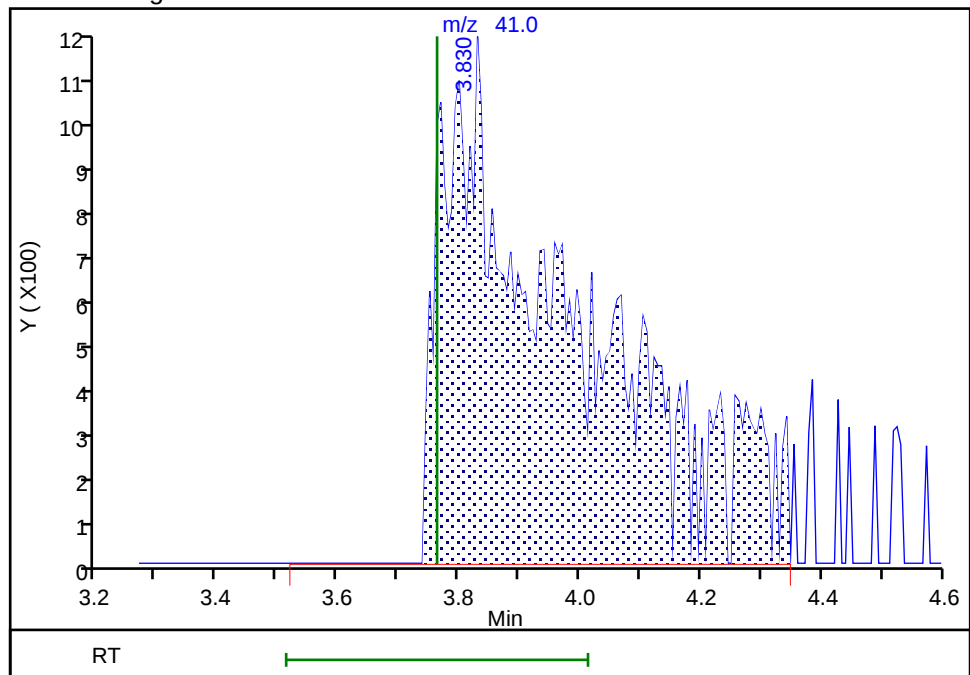
RT: 3.83
Area: 14890
Amount: 9.452790
Amount Units: ug/l

Processing Integration Results



RT: 3.83
Area: 17734
Amount: 10.287843
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:34:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

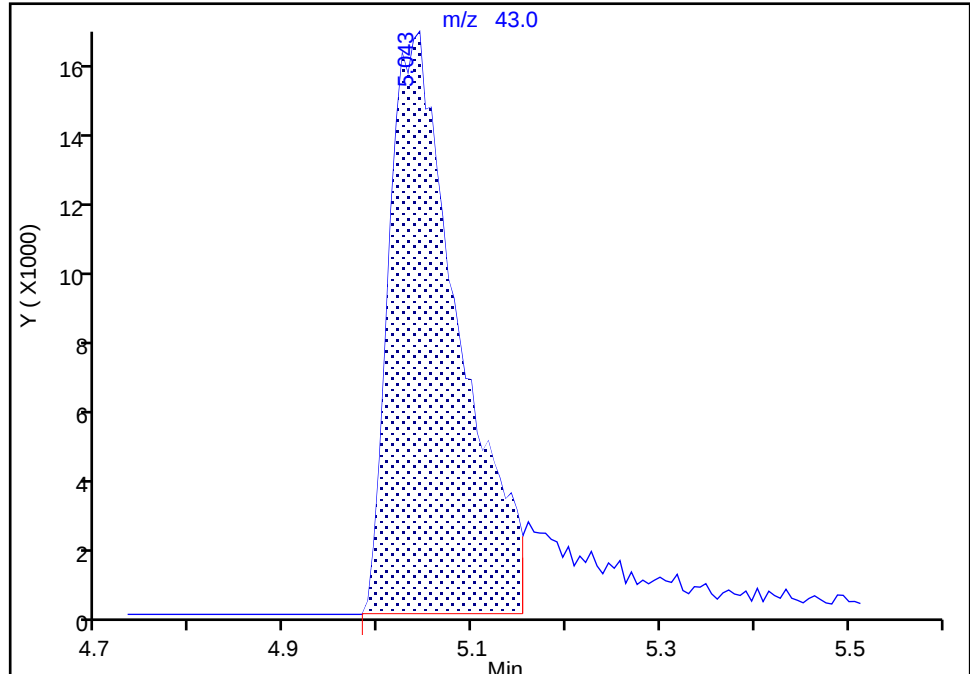
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X05.D
Injection Date: 17-Jul-2024 15:05:30 Instrument ID: 19094
Lims ID: IC std4 2
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

35 Vinyl acetate, CAS: 108-05-4

Signal: 1

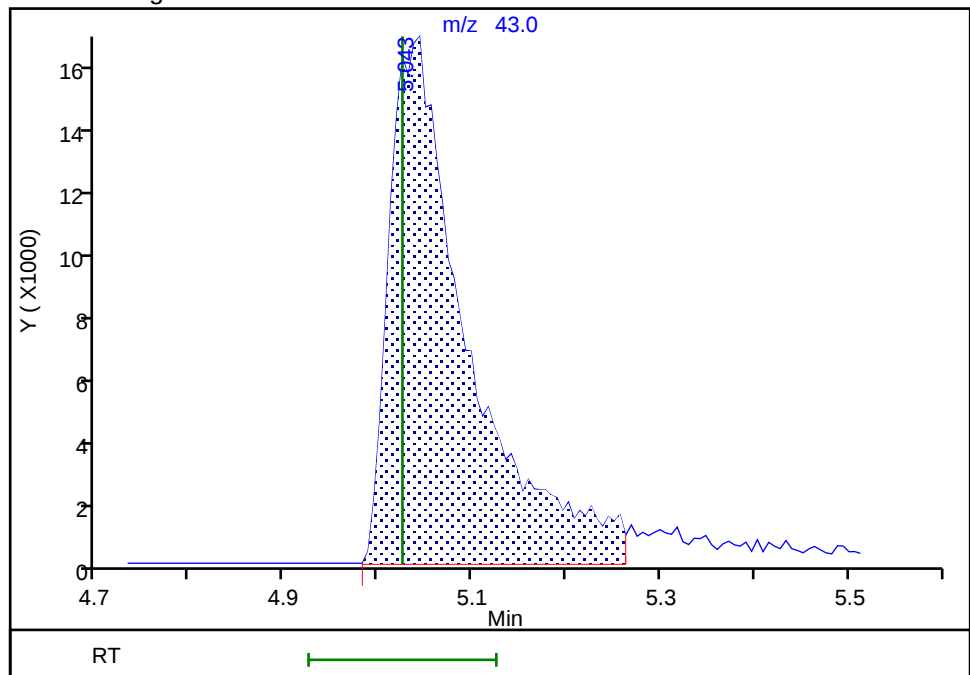
RT: 5.04
Area: 82113
Amount: 1.713859
Amount Units: ug/l

Processing Integration Results



RT: 5.04
Area: 93238
Amount: 1.914310
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 18-Jul-2024 21:47:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Environment Testing, LLC

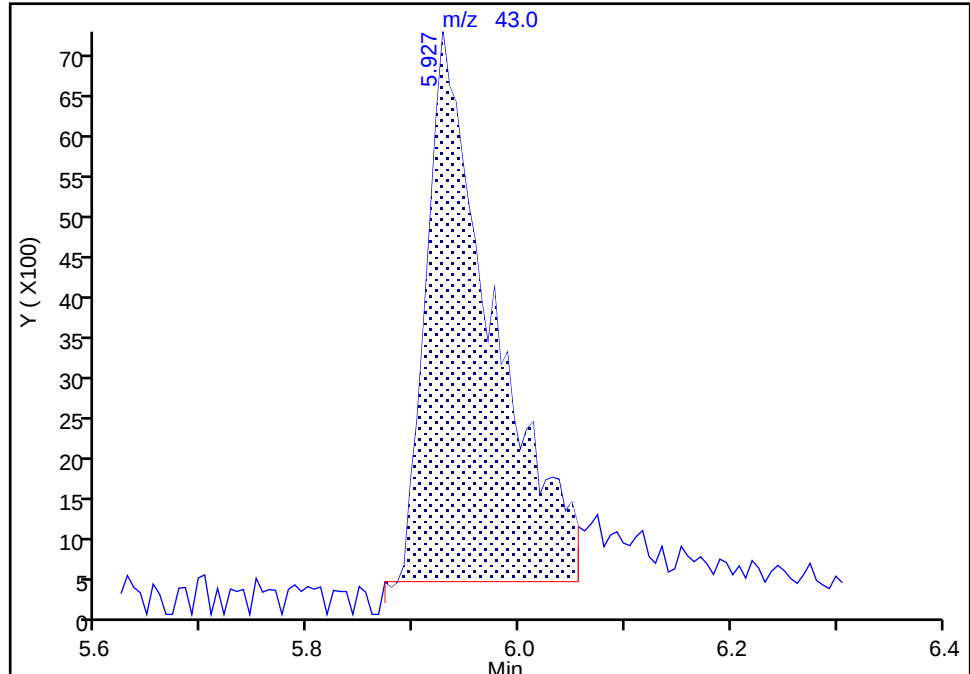
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X05.D
Injection Date: 17-Jul-2024 15:05:30 Instrument ID: 19094
Lims ID: IC std4 2
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

45 Ethyl acetate, CAS: 141-78-6

Signal: 1

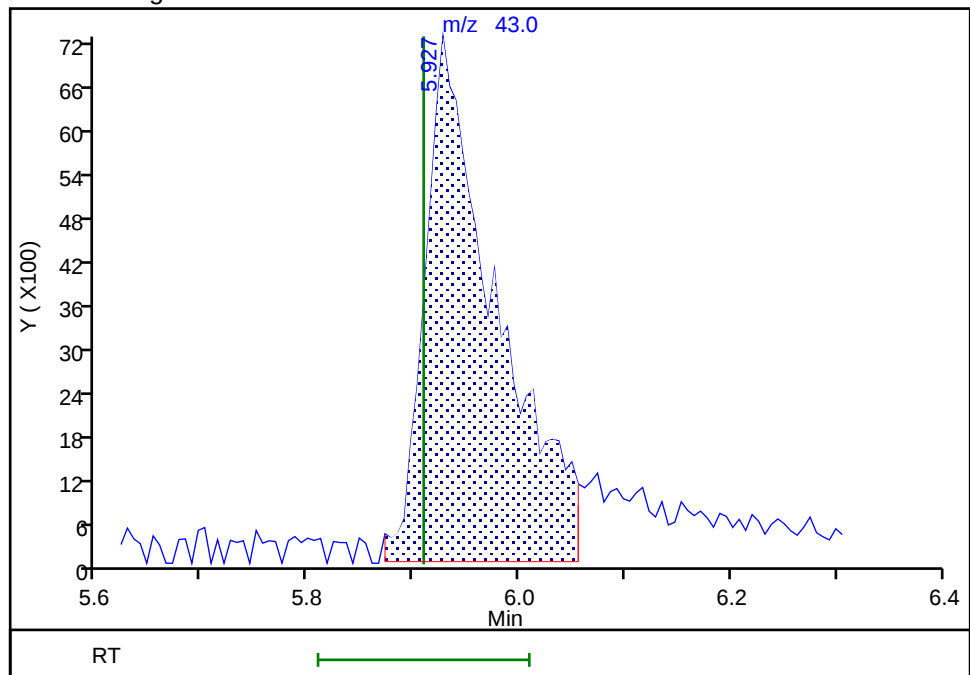
RT: 5.93
Area: 29490
Amount: 1.633304
Amount Units: ug/l

Processing Integration Results



RT: 5.93
Area: 33957
Amount: 1.864301
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:34:56 -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\20240717-119602.b\HL17X06.D
 Lims ID: IC std5 5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 17-Jul-2024 15:26:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119602-007
 Misc. Info.: IC std5 5
 Operator ID: knk41612 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub52
 Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 18-Jul-2024 22:30:41 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1666

First Level Reviewer: DVW2

Date: 18-Jul-2024 08:30:46

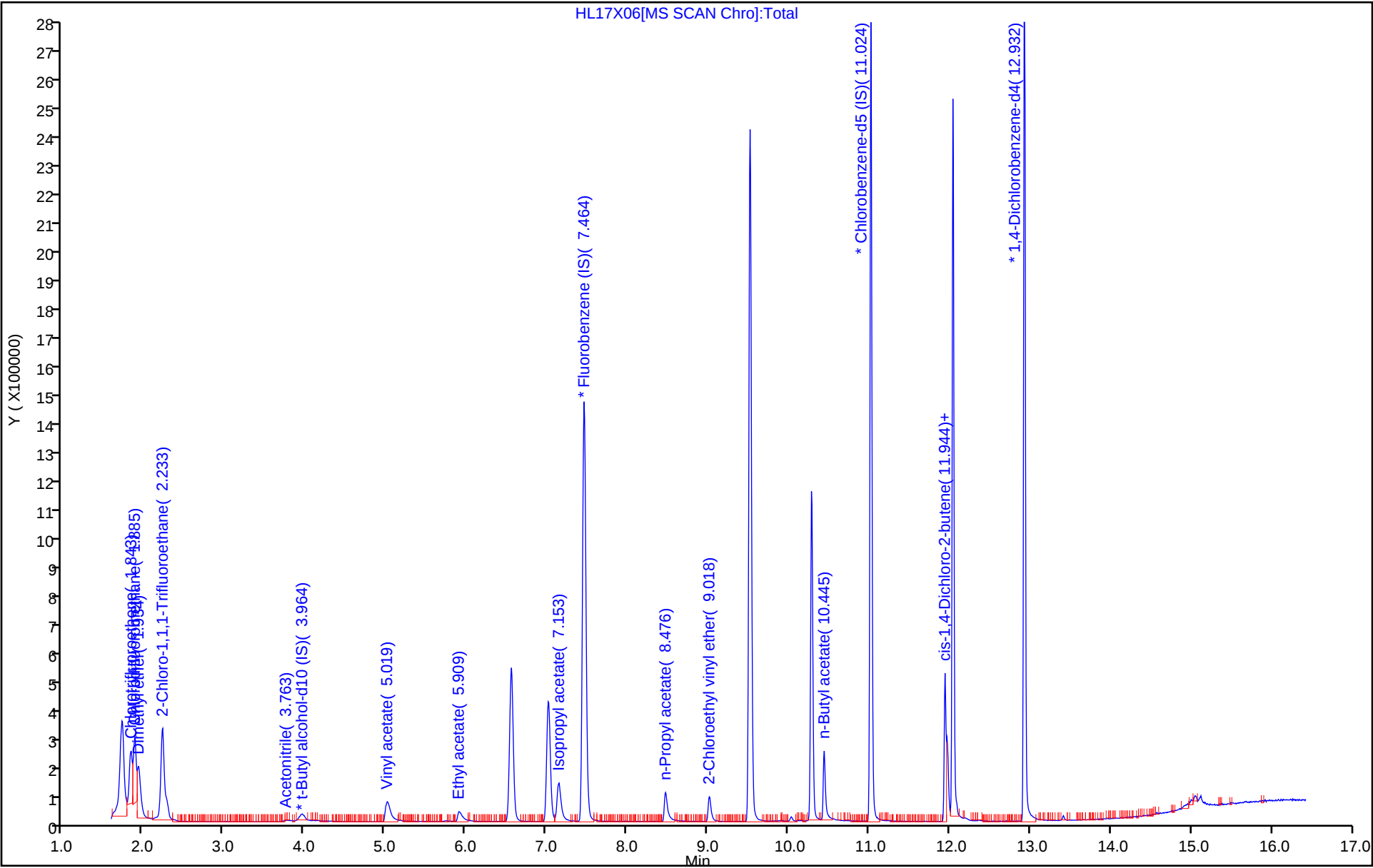
Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.837	1.849	-0.012	93	167319	5.00	5.45	
3 Chlorodifluoromethane	51	1.892	1.898	-0.006	97	364311	5.00	5.22	
4 Dimethyl ether	45	1.934	1.947	-0.013	99	323925	5.00	4.46	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.233	2.239	-0.006	34	305832	5.00	5.27	
25 Acetonitrile	41	3.763	3.763	0.000	95	43052	25.0	24.7	
* 28 t-Butyl alcohol-d10 (IS)	65	3.964	3.970	-0.006	27	97186	50.0	50.0	
35 Vinyl acetate	43	5.025	5.025	0.000	97	256035	5.00	5.19	
45 Ethyl acetate	43	5.909	5.909	0.000	99	95707	5.00	5.19	
61 Isopropyl acetate	43	7.153	7.147	0.006	98	252084	5.00	5.08	
* 64 Fluorobenzene (IS)	96	7.464	7.470	-0.006	99	2113852	10.0	10.0	
75 n-Propyl acetate	61	8.476	8.470	0.006	98	45707	5.00	4.59	
78 2-Chloroethyl vinyl ether	63	9.018	9.018	0.000	92	61749	5.00	5.27	
110 n-Butyl acetate	43	10.445	10.439	0.006	98	202315	5.00	4.84	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	1601699	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.944	11.945	-0.001	27	118698	10.0	10.8	
125 Cyclohexanone	55	11.975	11.969	0.006	90	114454	250.0	237.3	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	95	879598	10.0	10.0	

QC Flag Legend

Processing Flags

Reagents:

MSV_CCV_V5ACE_00038	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00009	Amount Added: 8.00	Units: uL
MSV_V_SMRV4_00072	Amount Added: 5.00	Units: uL
MSV_DME_00056	Amount Added: 1.00	Units: uL
MSV_LLcentISO_00008	Amount Added: 5.00	Units: uL



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X07.D
 Lims ID: IC std6 10
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 17-Jul-2024 15:46:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119602-008
 Misc. Info.: IC std6 10
 Operator ID: knk41612 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub52
 Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 18-Jul-2024 22:30:43 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1666

First Level Reviewer: DVW2

Date: 18-Jul-2024 08:30:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.849	1.849	0.000	93	328187	10.0	10.8	M
3 Chlorodifluoromethane	51	1.898	1.898	0.000	97	683305	10.0	9.86	
4 Dimethyl ether	45	1.947	1.947	0.000	98	672649	10.0	9.32	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.239	2.239	0.000	39	601449	10.0	10.4	
25 Acetonitrile	41	3.763	3.763	0.000	100	95496	50.0	55.1	
* 28 t-Butyl alcohol-d10 (IS)	65	3.983	3.983	0.000	27	100864	50.0	50.0	
35 Vinyl acetate	43	5.025	5.025	0.000	97	576715	10.0	11.8	
45 Ethyl acetate	43	5.909	5.909	0.000	99	215122	10.0	11.8	
61 Isopropyl acetate	43	7.147	7.147	0.000	98	546788	10.0	11.1	
* 64 Fluorobenzene (IS)	96	7.470	7.470	0.000	99	2097857	10.0	10.0	
75 n-Propyl acetate	61	8.470	8.470	0.000	98	110255	10.0	10.8	
78 2-Chloroethyl vinyl ether	63	9.018	9.018	0.000	92	130915	10.0	11.3	
110 n-Butyl acetate	43	10.439	10.439	0.000	98	460572	10.0	11.0	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	1580523	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.945	11.945	0.000	27	258174	20.0	23.8	a
125 Cyclohexanone	55	11.969	11.969	0.000	92	263745	500.0	514.9	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	95	873599	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_V5ACE_00038	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00009	Amount Added: 8.00	Units: uL
MSV_V_SMRV4_00072	Amount Added: 5.00	Units: uL
MSV_DME_00056	Amount Added: 1.00	Units: uL
MSV_LLcentISO_00008	Amount Added: 5.00	Units: uL

Report Date: 18-Jul-2024 22:30:43

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X07.D

Injection Date: 17-Jul-2024 15:46:30

Instrument ID: 19094

Operator ID: knk41612

Lims ID: IC std6 10

Worklist Smp#: 8

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

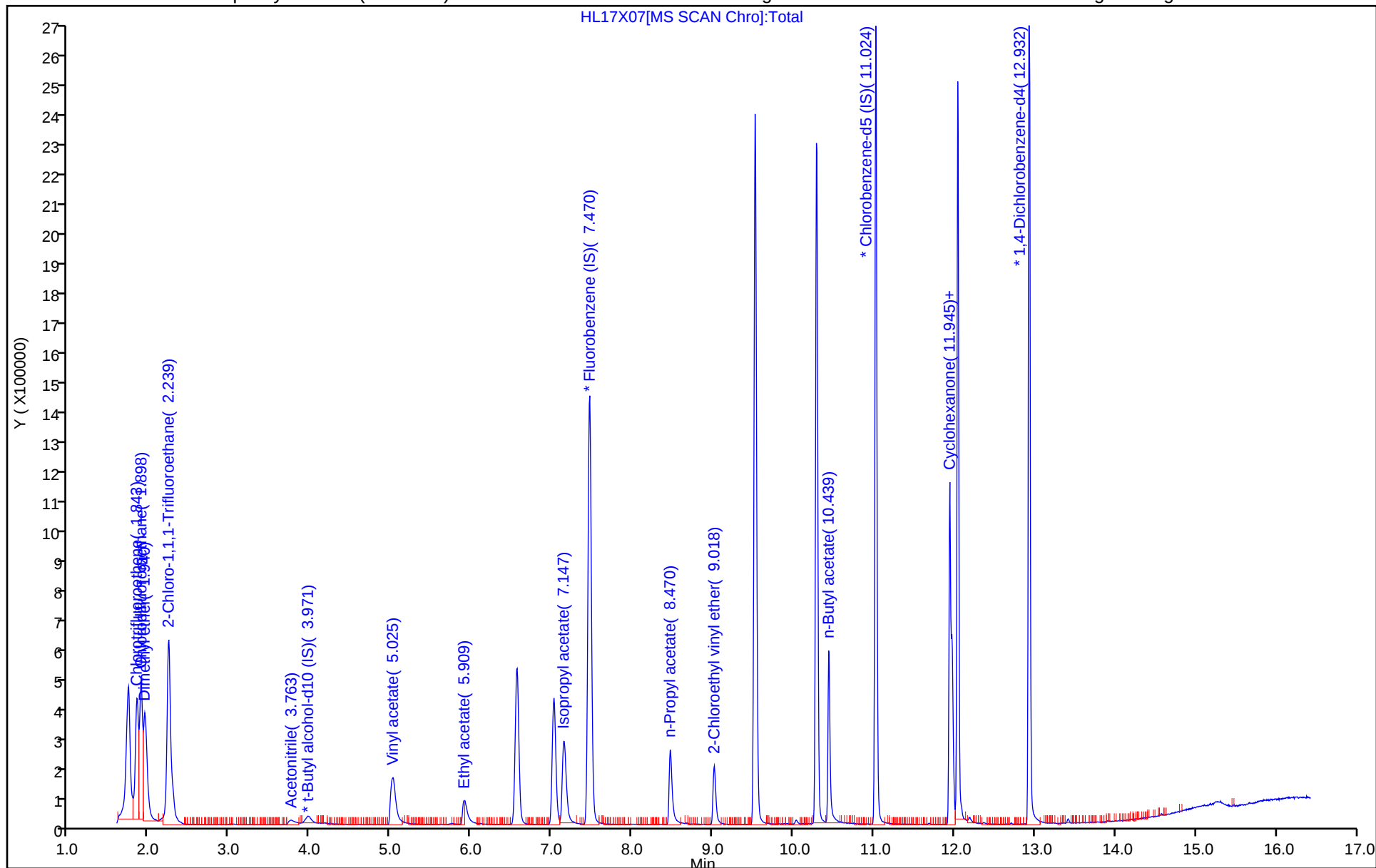
ALS Bottle#: 7

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

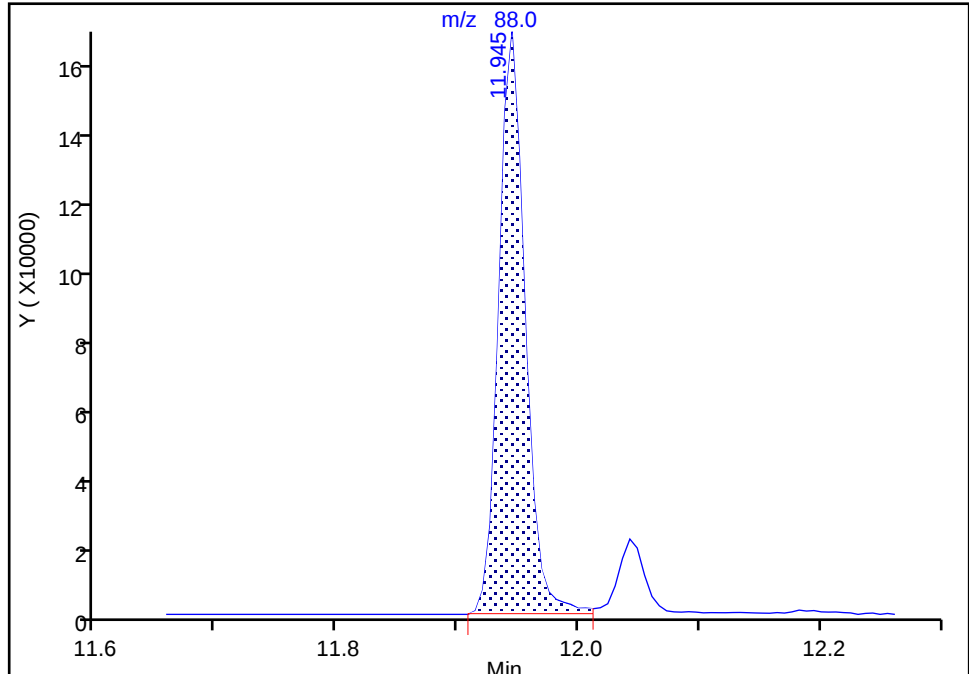
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X07.D
Injection Date: 17-Jul-2024 15:46:30 Instrument ID: 19094
Lims ID: IC std6 10
Client ID:
Operator ID: knk41612 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

124 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

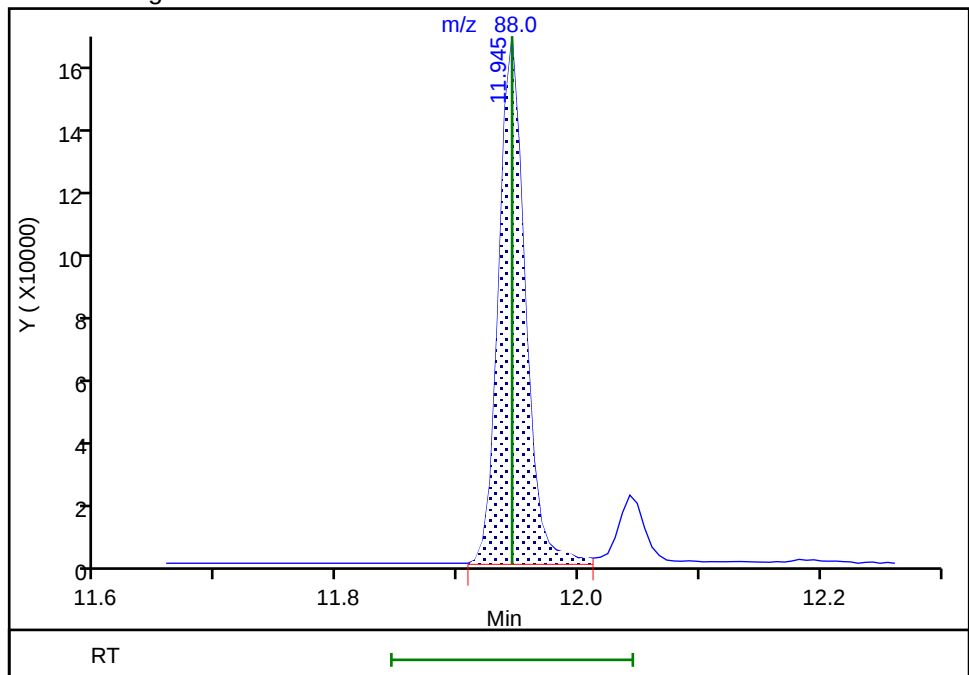
RT: 11.94
Area: 258174
Amount: 23.769766
Amount Units: ug/l

Processing Integration Results



RT: 11.94
Area: 258174
Amount: 23.769766
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:30:28 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X08.D
 Lims ID: IC std7 25
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 17-Jul-2024 16:07:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119602-009
 Misc. Info.: IC std7 25
 Operator ID: knk41612 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub52
 Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 18-Jul-2024 22:30:46 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1666

First Level Reviewer: DVW2

Date: 18-Jul-2024 08:33:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.843	1.849	-0.006	93	856050	25.0	27.7	
3 Chlorodifluoromethane	51	1.898	1.898	0.000	97	1753716	25.0	24.9	
4 Dimethyl ether	45	1.940	1.947	-0.007	99	1610639	25.0	22.0	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.239	2.239	0.000	34	1486511	25.0	25.4	
25 Acetonitrile	41	3.733	3.763	-0.030	100	211065	125.0	119.9	
* 28 t-Butyl alcohol-d10 (IS)	65	3.964	3.983	-0.019	27	98456	50.0	50.0	
35 Vinyl acetate	43	5.013	5.025	-0.012	97	1414913	25.0	28.5	
45 Ethyl acetate	43	5.903	5.909	-0.006	99	521003	25.0	28.0	
61 Isopropyl acetate	43	7.147	7.147	0.000	98	1237854	25.0	24.7	
* 64 Fluorobenzene (IS)	96	7.470	7.470	0.000	99	2130682	10.0	10.0	
75 n-Propyl acetate	61	8.463	8.470	-0.007	98	258682	25.0	24.8	
78 2-Chloroethyl vinyl ether	63	9.012	9.018	-0.006	91	350534	25.0	29.7	
110 n-Butyl acetate	43	10.439	10.439	0.000	98	1060796	25.0	24.7	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	1615587	10.0	10.0	
124 cis-1,4-Dichloro-2-butene	88	11.945	11.945	-0.001	28	682170	50.0	61.4	
125 Cyclohexanone	55	11.969	11.969	0.000	93	630647	1250.1	1247.0	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	95	870606	10.0	10.0	

QC Flag Legend

Processing Flags

Reagents:

MSV_CCV_V5ACE_00038	Amount Added: 2.50	Units: uL
MSV_CCV_CYC_00009	Amount Added: 20.00	Units: uL
MSV_V_SMRV4_00072	Amount Added: 12.50	Units: uL
MSV_DME_00056	Amount Added: 2.50	Units: uL
MSV_LLcentISO_00008	Amount Added: 5.00	Units: uL

Report Date: 18-Jul-2024 22:30:47

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X08.D

Injection Date: 17-Jul-2024 16:07:30

Instrument ID: 19094

Operator ID: knk41612

Lims ID: IC std7 25

Worklist Smp#: 9

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

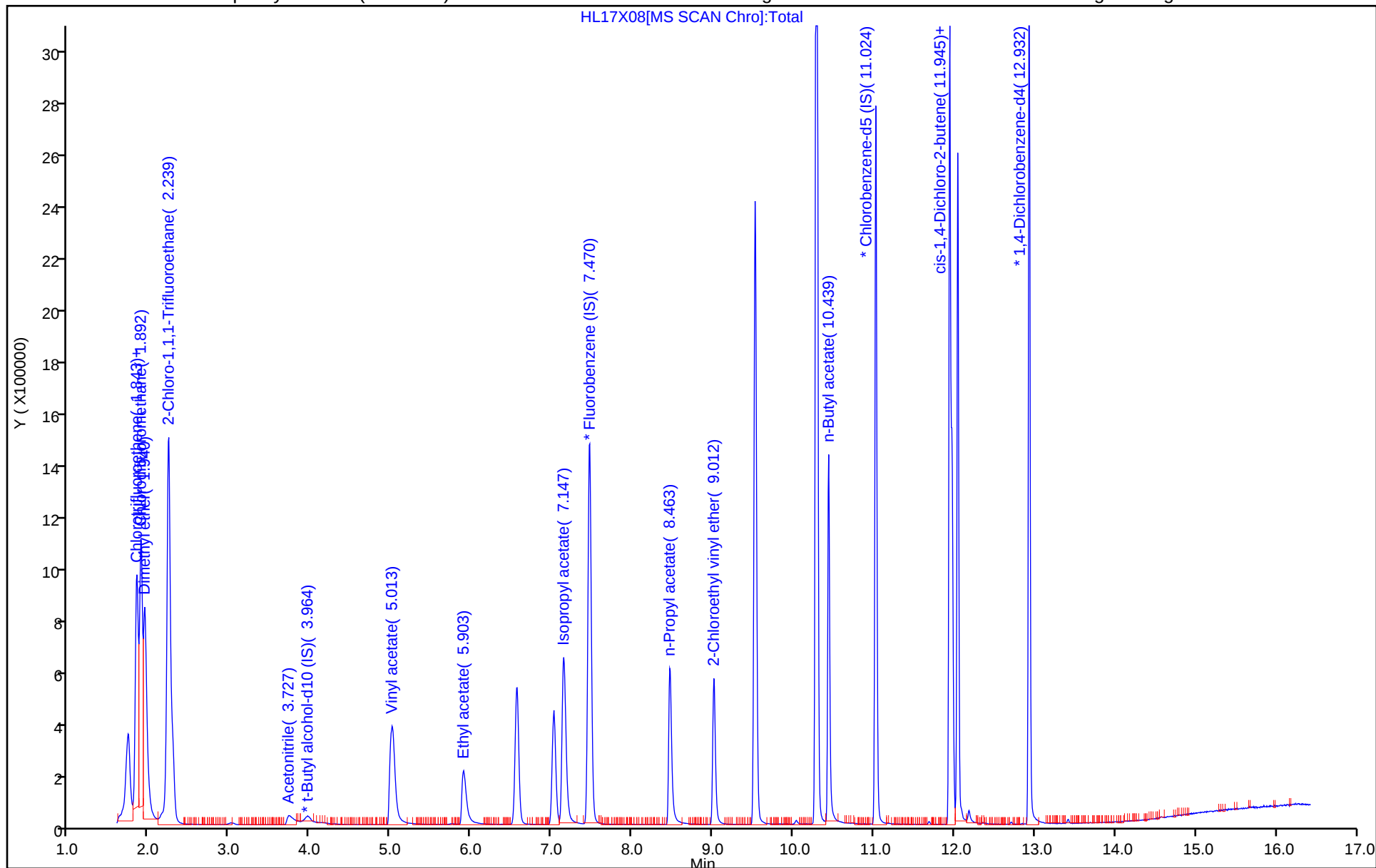
ALS Bottle#: 8

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



Calibration

/ Chlorodifluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

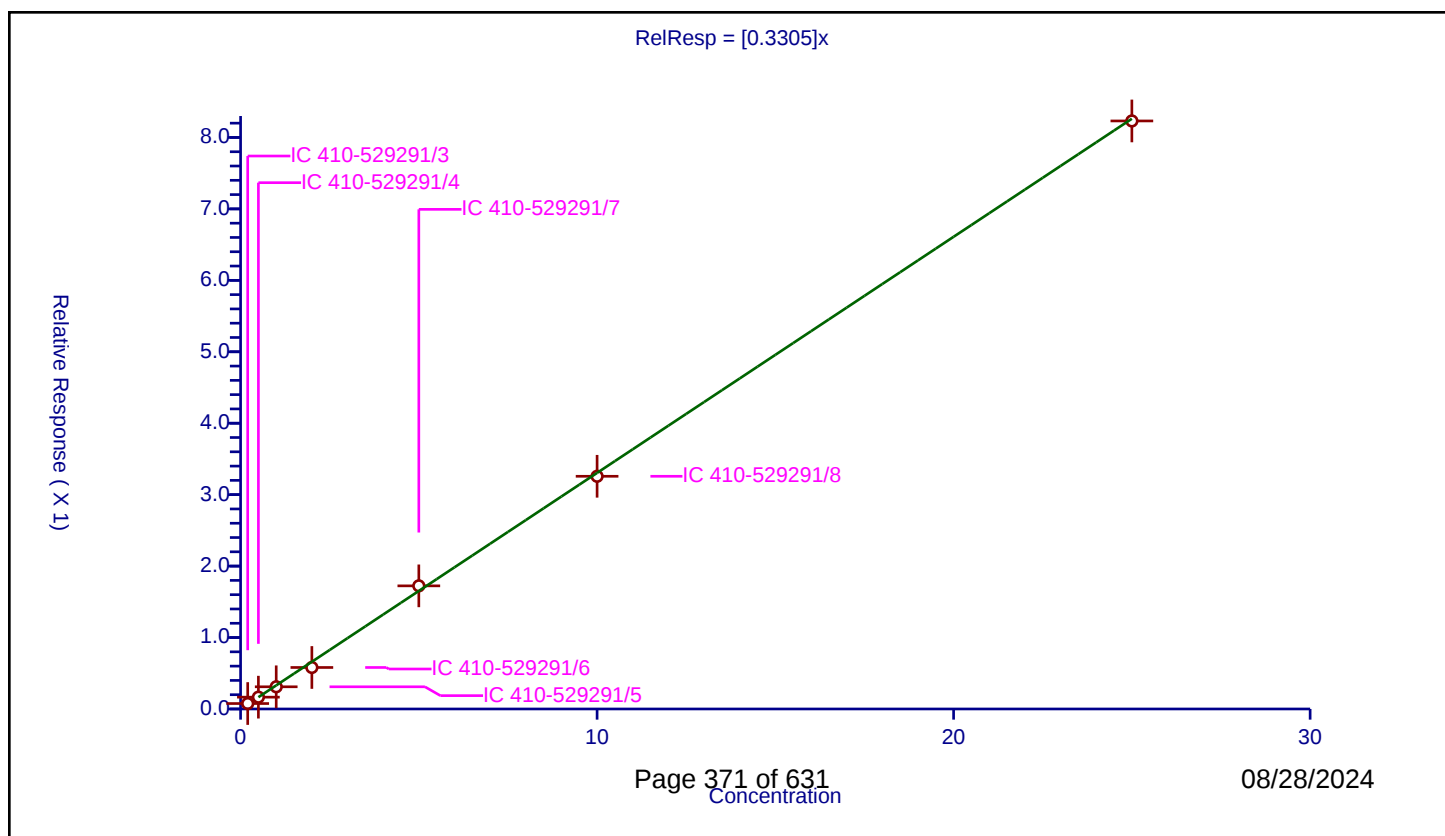
Curve Coefficients

Intercept: 0
Slope: 0.3305

Error Coefficients

Relative Standard Deviation: 8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/3	0.2	0.076254	10.0	2057737.0	0.381268	Y
2	IC 410-529291/4	0.5	0.165624	10.0	2081523.0	0.331248	Y
3	IC 410-529291/5	1.0	0.310676	10.0	2093079.0	0.310676	Y
4	IC 410-529291/6	2.0	0.580871	10.0	2087244.0	0.290436	Y
5	IC 410-529291/7	5.0	1.723446	10.0	2113852.0	0.344689	Y
6	IC 410-529291/8	10.0	3.257157	10.0	2097857.0	0.325716	Y
7	IC 410-529291/9	25.0	8.230773	10.0	2130682.0	0.329231	Y



Calibration

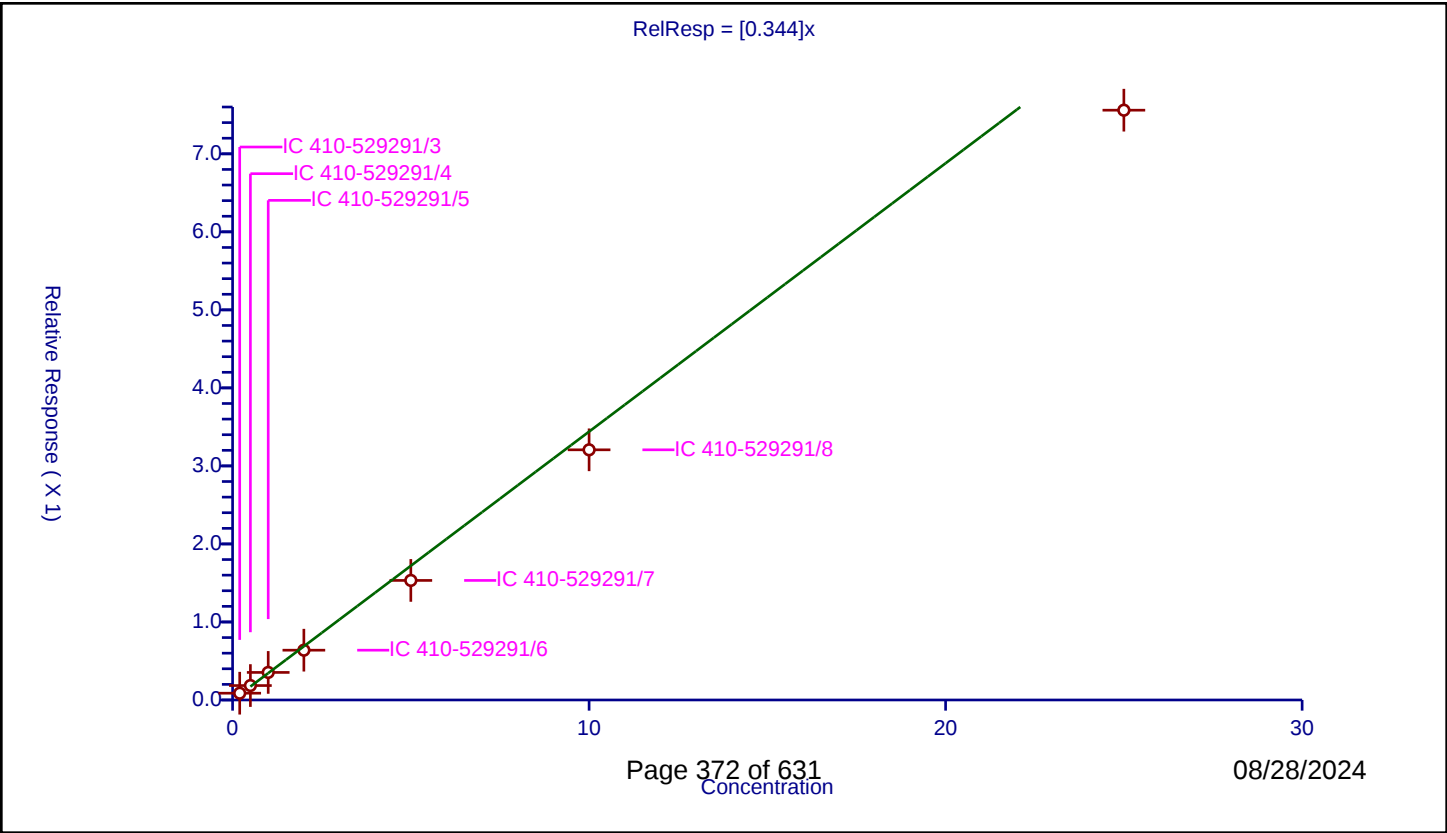
/ Dimethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.344
Error Coefficients	

Relative Standard Deviation: 13.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/3	0.2	0.087105	10.0	2057737.0	0.435527	Y
2	IC 410-529291/4	0.5	0.185119	10.0	2081523.0	0.370239	Y
3	IC 410-529291/5	1.0	0.353317	10.0	2093079.0	0.353317	Y
4	IC 410-529291/6	2.0	0.638378	10.0	2087244.0	0.319189	Y
5	IC 410-529291/7	5.0	1.532392	10.0	2113852.0	0.306478	Y
6	IC 410-529291/8	10.0	3.206362	10.0	2097857.0	0.320636	Y
7	IC 410-529291/9	25.0	7.559265	10.0	2130682.0	0.302371	Y



Calibration

/ Acetonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

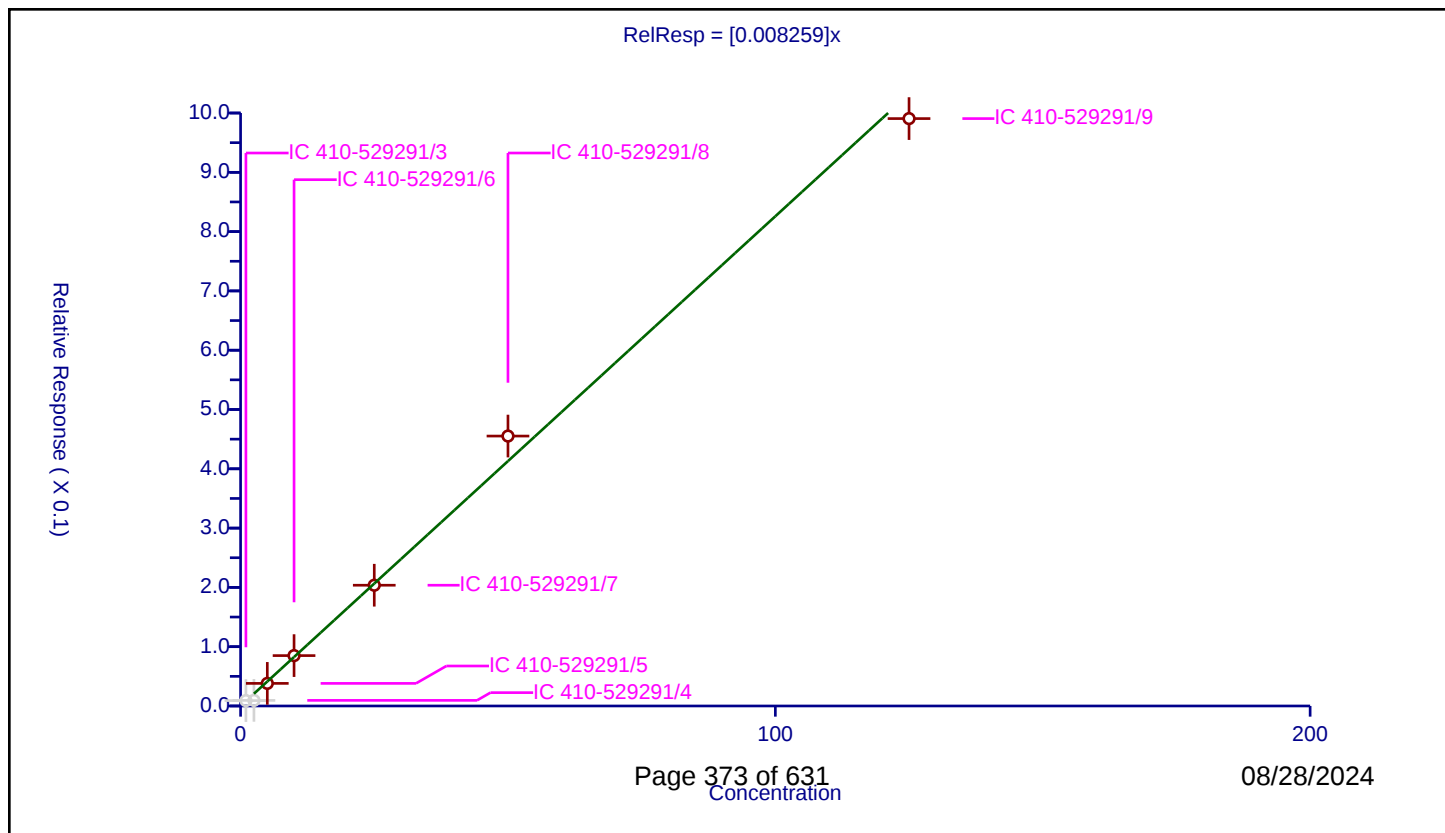
Curve Coefficients

Intercept: 0
 Slope: 0.008259

Error Coefficients

Relative Standard Deviation: 6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/3	1.0	0.009117	10.0	2057737.0	0.009117	N
2	IC 410-529291/4	2.5	0.00945	10.0	2081523.0	0.00378	N
3	IC 410-529291/5	5.0	0.038107	10.0	2093079.0	0.007621	Y
4	IC 410-529291/6	10.0	0.084964	10.0	2087244.0	0.008496	Y
5	IC 410-529291/7	25.0	0.203666	10.0	2113852.0	0.008147	Y
6	IC 410-529291/8	50.0	0.455207	10.0	2097857.0	0.009104	Y
7	IC 410-529291/9	125.0	0.990598	10.0	2130682.0	0.007925	Y



Calibration

/ Vinyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

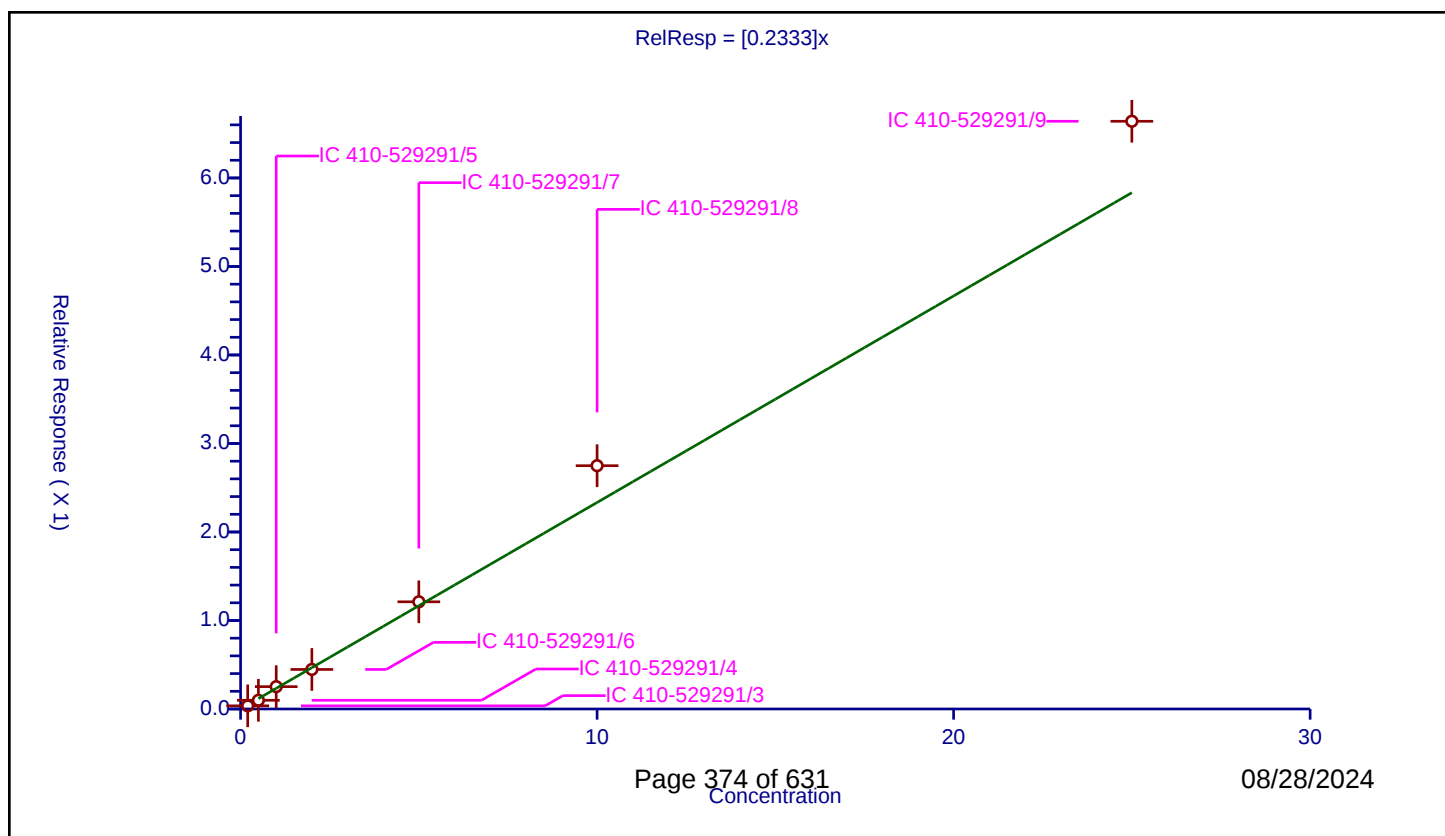
Curve Coefficients

Intercept: 0
 Slope: 0.2333

Error Coefficients

Relative Standard Deviation: 15.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/3	0.2	0.035622	10.0	2057737.0	0.178108	Y
2	IC 410-529291/4	0.5	0.09837	10.0	2081523.0	0.196741	Y
3	IC 410-529291/5	1.0	0.25247	10.0	2093079.0	0.25247	Y
4	IC 410-529291/6	2.0	0.446704	10.0	2087244.0	0.223352	Y
5	IC 410-529291/7	5.0	1.211225	10.0	2113852.0	0.242245	Y
6	IC 410-529291/8	10.0	2.749067	10.0	2097857.0	0.274907	Y
7	IC 410-529291/9	25.0	6.640658	10.0	2130682.0	0.265626	Y



Calibration

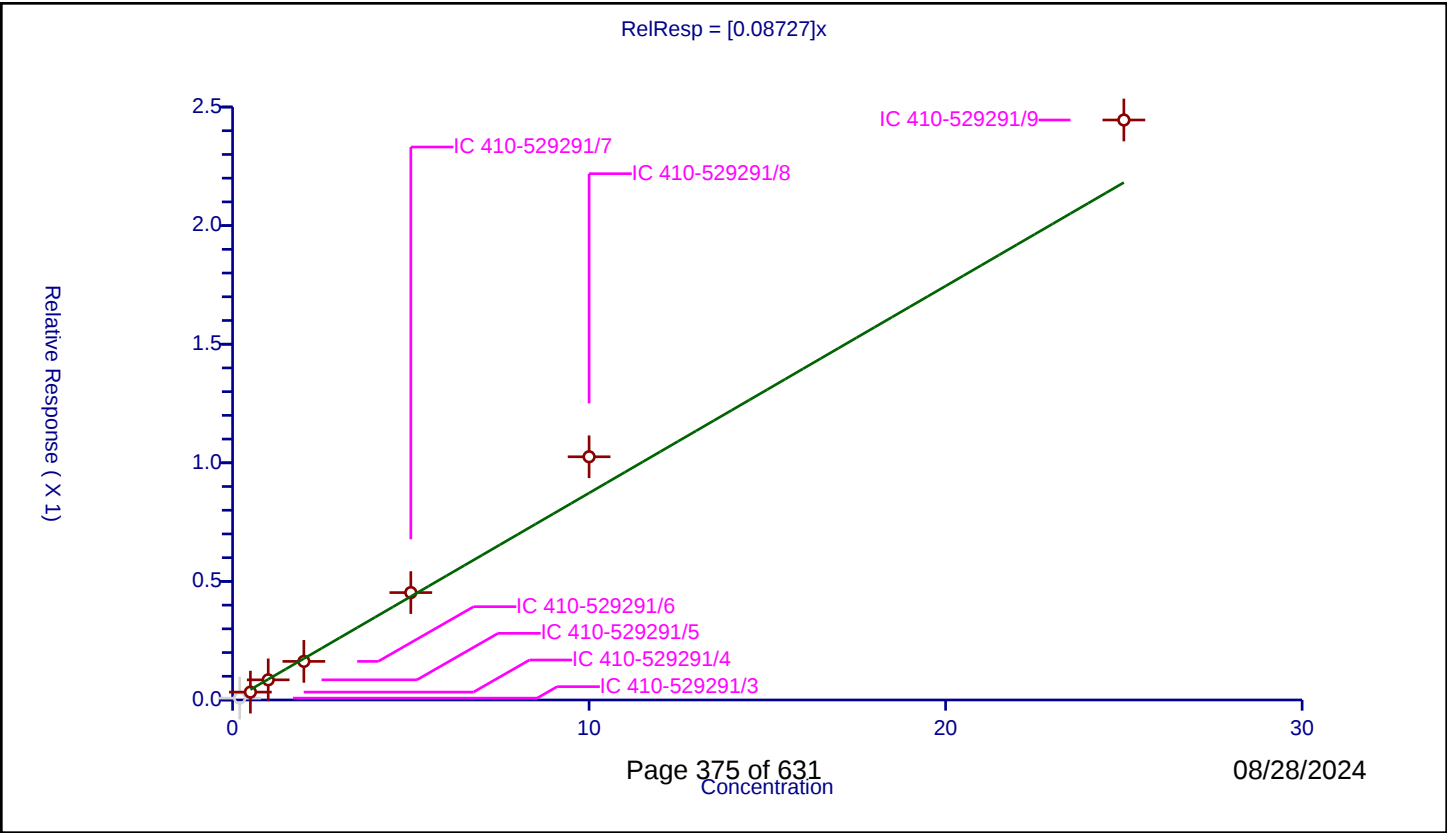
/ Ethyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.08727
Error Coefficients	

Relative Standard Deviation: 14.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/3	0.2	0.00779	10.0	2057737.0	0.038951	N
2	IC 410-529291/4	0.5	0.033206	10.0	2081523.0	0.066413	Y
3	IC 410-529291/5	1.0	0.084928	10.0	2093079.0	0.084928	Y
4	IC 410-529291/6	2.0	0.162688	10.0	2087244.0	0.081344	Y
5	IC 410-529291/7	5.0	0.452761	10.0	2113852.0	0.090552	Y
6	IC 410-529291/8	10.0	1.025437	10.0	2097857.0	0.102544	Y
7	IC 410-529291/9	25.0	2.445241	10.0	2130682.0	0.09781	Y



Calibration

/ 2-Chloroethyl vinyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

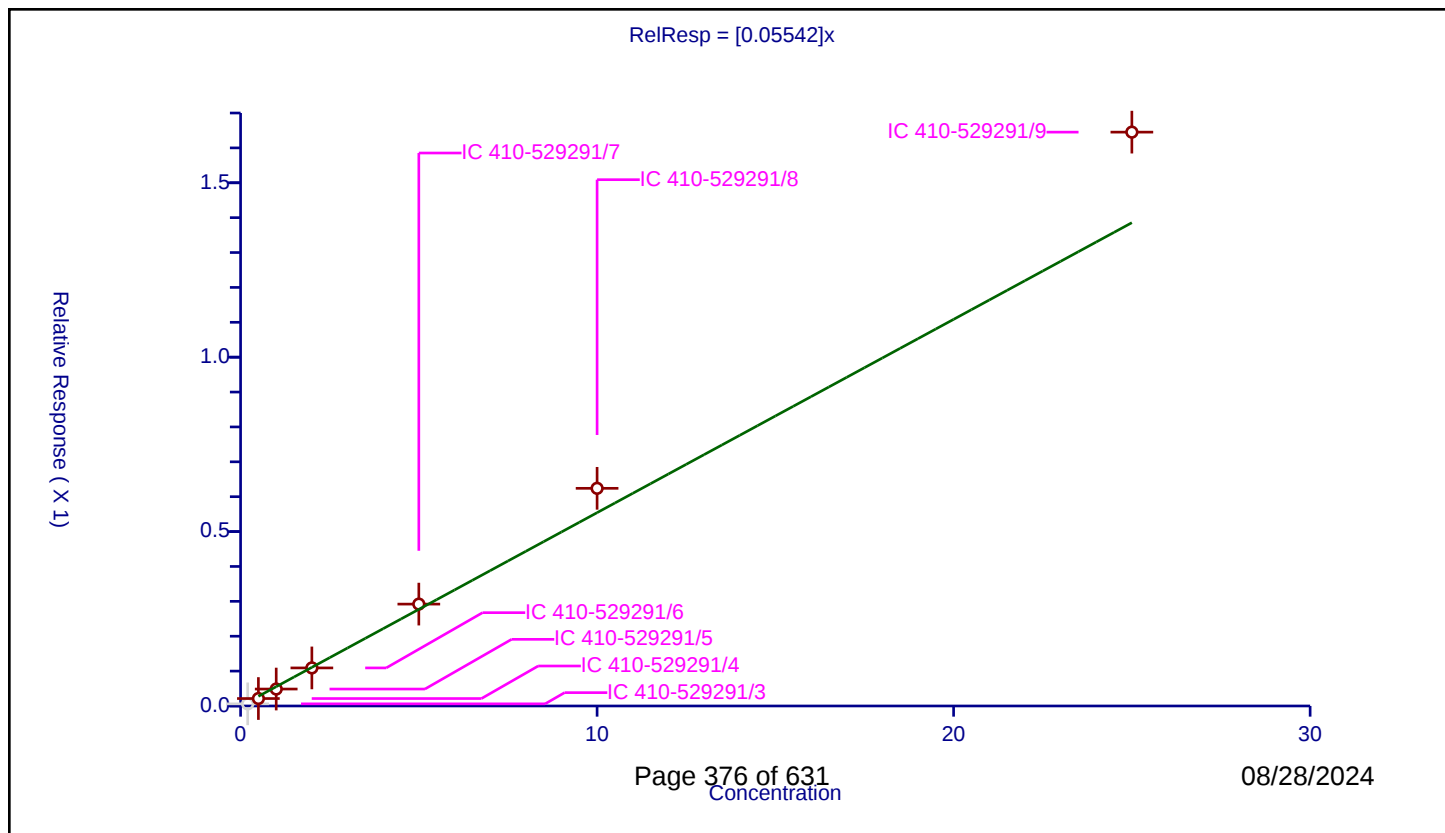
Curve Coefficients

Intercept: 0
Slope: 0.05542

Error Coefficients

Relative Standard Deviation: 15.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/3	0.2	0.006191	10.0	2057737.0	0.030956	N
2	IC 410-529291/4	0.5	0.021383	10.0	2081523.0	0.042767	Y
3	IC 410-529291/5	1.0	0.04857	10.0	2093079.0	0.04857	Y
4	IC 410-529291/6	2.0	0.10912	10.0	2087244.0	0.05456	Y
5	IC 410-529291/7	5.0	0.292116	10.0	2113852.0	0.058423	Y
6	IC 410-529291/8	10.0	0.624042	10.0	2097857.0	0.062404	Y
7	IC 410-529291/9	25.0	1.645173	10.0	2130682.0	0.065807	Y



Calibration

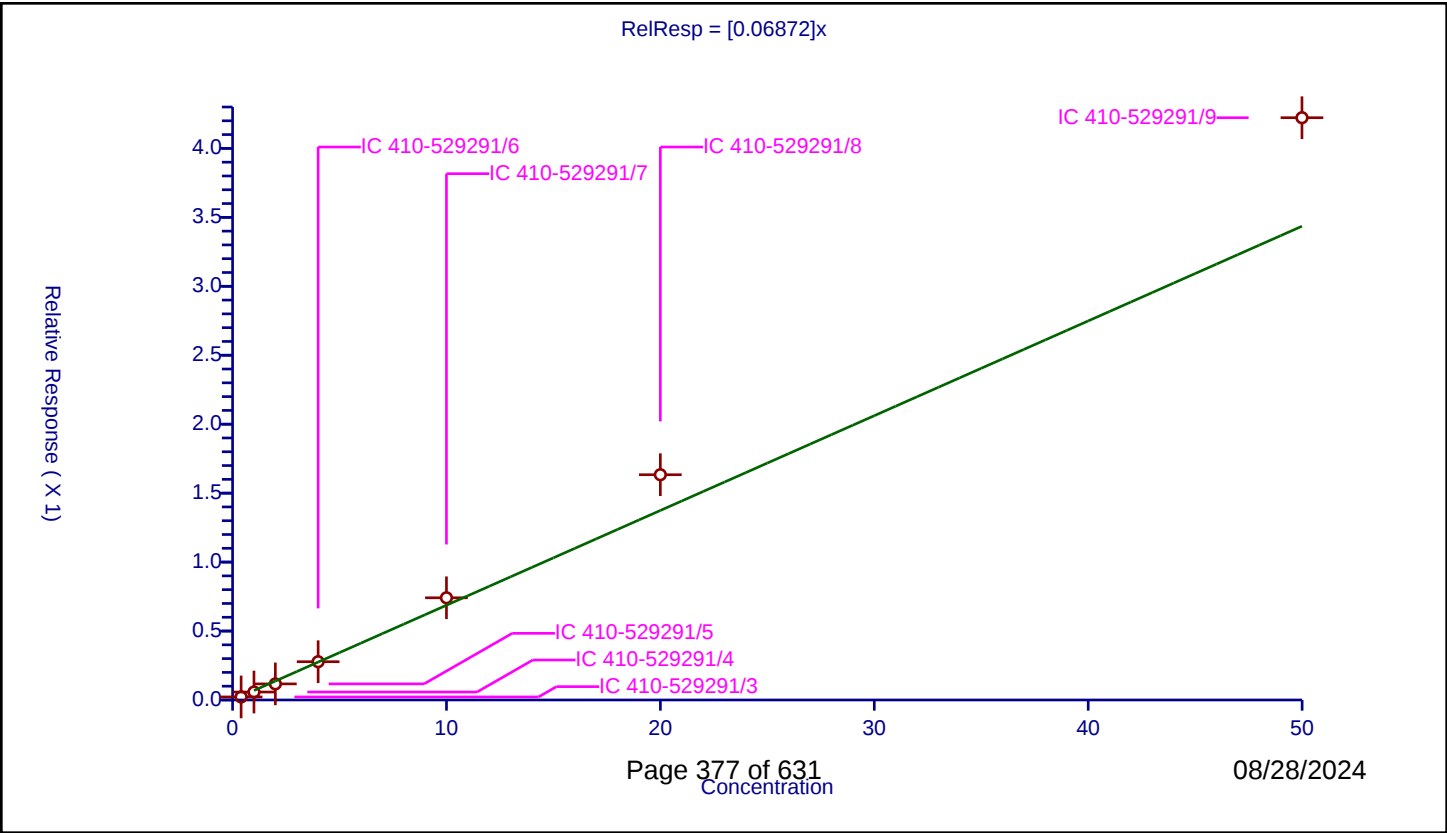
/ cis-1,4-Dichloro-2-butene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.06872
Error Coefficients	

Relative Standard Deviation: 17.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/3	0.399946	0.022104	10.0	1560374.0	0.055267	Y
2	IC 410-529291/4	0.999864	0.057747	10.0	1563532.0	0.057755	Y
3	IC 410-529291/5	1.999729	0.116651	10.0	1585581.0	0.058334	Y
4	IC 410-529291/6	3.999457	0.277667	10.0	1583767.0	0.069426	Y
5	IC 410-529291/7	9.998644	0.741076	10.0	1601699.0	0.074118	Y
6	IC 410-529291/8	19.997287	1.633472	10.0	1580523.0	0.081685	Y
7	IC 410-529291/9	49.993218	4.222428	10.0	1615587.0	0.08446	Y



Calibration

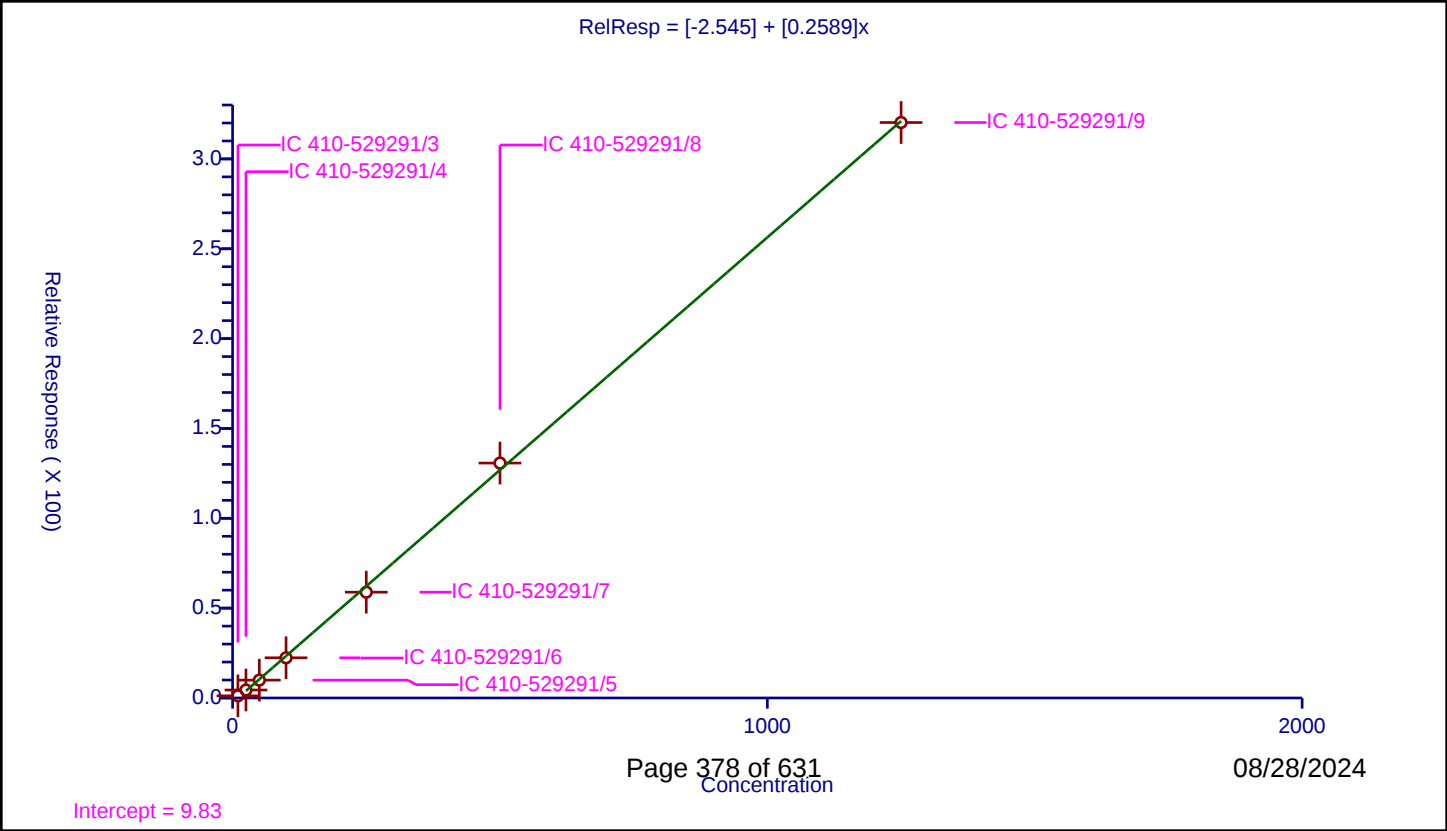
/ Cyclohexanone

Curve Type: Linear
Weighting: None
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	-2.545
Slope:	0.2589

Error Coefficients	
Relative Standard Deviation:	20.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/3	10.000637	1.213607	50.0	98302.0	0.121353	Y
2	IC 410-529291/4	25.001592	4.446006	50.0	102474.0	0.177829	Y
3	IC 410-529291/5	50.003184	9.930958	50.0	97332.0	0.198607	Y
4	IC 410-529291/6	100.006368	22.378652	50.0	103916.0	0.223772	Y
5	IC 410-529291/7	250.01592	58.883996	50.0	97186.0	0.235521	Y
6	IC 410-529291/8	500.03184	130.742882	50.0	100864.0	0.261469	Y
7	IC 410-529291/9	1250.0796	320.268445	50.0	98456.0	0.256198	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1 Analy Batch No.: 529291
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: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-529291/13	HL17X12.D
Level 2	IC 410-529291/14	HL17X13.D
Level 3	IC 410-529291/15	HL17X14.D
Level 4	IC 410-529291/16	HL17X15.D
Level 5	IC 410-529291/17	HL17X16.D
Level 6	ICIS 410-529291/18	HL17X17.D
Level 7	IC 410-529291/19	HL17X18.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															
Dichlorodifluoromethane	0.2246 0.2695	0.2607 0.2484	0.2648	0.2476	0.2657	Ave		0.254 5			0.1000	6.2		20.0			
Chloromethane	0.3596 0.3203	0.3159 0.3001	0.3051	0.3053	0.3178	Ave		0.317 7			0.1000	6.3		20.0			
1,3-Butadiene	0.2446 0.2972	0.2514 0.2780	0.2549	0.2777	0.2996	Ave		0.271 9				8.1		20.0			
Vinyl chloride	0.2977 0.2997	0.2905 0.2844	0.2979	0.2746	0.2934	Ave		0.291 2			0.1000	3.1		20.0			
Bromomethane	0.2064 0.2141	0.1936 0.2080	0.2024	0.1959	0.2077	Ave		0.204 0			0.1000	3.6		20.0			
Chloroethane	0.1706 0.1762	0.1689 0.1709	0.1698	0.1645	0.1732	Ave		0.170 6			0.1000	2.1		20.0			
Dichlorofluoromethane	0.5016 0.4783	0.4521 0.4611	0.4699	0.4479	0.4733	Ave		0.469 2			0.1000	3.9		20.0			
Trichlorofluoromethane	0.3210 0.3653	0.3493 0.3454	0.3649	0.3391	0.3683	Ave		0.350 5			0.1000	4.9		20.0			
Ethyl ether	0.1090 0.1452	0.1272 0.1381	0.1368	0.1287	0.1399	Ave		0.132 1				9.1		20.0			
Freon 123a	0.2655 0.2691	0.2566 0.2523	0.2658	0.2461	0.2675	Ave		0.260 4				3.4		20.0			
Acrolein	1.6757 2.3467	1.8806 2.4693	2.0520	2.2052	2.2538	Ave		2.126 2				13.0		20.0			
1,1-Dichloroethene	0.1886 0.1833	0.1753 0.1797	0.1718	0.1754	0.1896	Ave		0.180 5			0.1000	3.8		20.0			
Acetone	2.9374 2.6686	2.3470 2.6946	2.6078	2.7302	2.6435	Ave		2.661 3			0.1000	6.6		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
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1 Analy Batch No.: 529291
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: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Freon 113	0.1369 0.1904	0.1672 0.1845	0.1867	0.1785	0.1984	Ave		0.177 5			0.1000	11.5		20.0			
Methyl iodide	0.3419 0.3697	0.3409 0.3617	0.3577	0.3600	0.3765	Ave		0.358 3				3.7		20.0			
Ethyl bromide	0.1432 0.1746	0.1599 0.1612	0.1666	0.1521	0.1657	Ave		0.160 5				6.4		20.0			
Carbon disulfide	0.4630 0.5288	0.5073 0.5198	0.5281	0.5139	0.5392	Ave		0.514 3			0.1000	4.8		20.0			
Methyl acetate	++++ 6.8248	8.2527 8.0395	6.3924	6.9127	6.8386	Ave		7.210 1			0.1000	10.4		20.0			
Allyl chloride	0.3023 0.3267	0.2960 0.3197	0.3063	0.3161	0.3313	Ave		0.314 0				4.1		20.0			
Methylene Chloride	0.2563 0.2184	0.2187 0.2109	0.2258	0.2190	0.2243	Ave		0.224 8			0.1000	6.5		20.0			
t-Butyl alcohol	0.7047 0.8015	0.7039 0.7060	0.7349	0.7263	0.7420	Ave		0.731 3				4.7		20.0			
Acrylonitrile	++++ 3.9367	++++ 4.0840	2.7998	3.4380	3.7627	Ave		3.604 2				14.2		20.0			
Methyl tert-butyl ether	0.4793 0.5096	0.4792 0.4965	0.4914	0.4961	0.5183	Ave		0.495 8			0.1000	2.9		20.0			
trans-1,2-Dichloroethene	0.2087 0.2185	0.1988 0.2143	0.2118	0.2071	0.2180	Ave		0.211 0			0.1000	3.3		20.0			
n-Hexane	0.1725 0.2708	0.2391 0.2655	0.2533	0.2529	0.2892	Ave		0.249 0				15.0		20.0			
1,1-Dichloroethane	0.3962 0.4189	0.3845 0.4060	0.3998	0.4035	0.4140	Ave		0.403 3			0.2000	2.8		20.0			
di-Isopropyl ether	0.6283 0.6989	0.6331 0.6845	0.6591	0.6650	0.6874	Ave		0.665 2				4.1		20.0			
2-Chloro-1,3-butadiene	0.2978 0.3409	0.2837 0.3368	0.3136	0.3136	0.3449	Ave		0.318 7				7.3		20.0			
Ethyl t-butyl ether	0.5824 0.6460	0.5809 0.6270	0.6256	0.6166	0.6500	Ave		0.618 4				4.5		20.0			
2-Butanone (MEK)	3.5946 4.9870	3.7843 5.0800	4.0175	4.5975	4.7001	Ave		4.394 4			0.1000	13.5		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.: 410-185105-1 Analy Batch No.: 529291
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: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
cis-1,2-Dichloroethene	0.2324 0.2511	0.2270 0.2461	0.2344	0.2405	0.2508	Ave		0.240 3			0.1000	3.9		20.0			
2,2-Dichloropropane	0.3304 0.3434	0.3236 0.3339	0.3331	0.3327	0.3461	Ave		0.334 7				2.3		20.0			
Propionitrile	0.4753 1.3542	0.7096 1.4094	0.9537	1.0123	1.1754	Lin1	-5.73 6	1.375 1							0.9950		0.9900
Methacrylonitrile	4.0516 5.4415	4.4626 5.5850	5.0384	5.2757	5.3744	Ave		5.032 7				11.3		20.0			
Bromochloromethane	0.0976 0.1048	0.0944 0.1031	0.1029	0.1011	0.1068	Ave		0.101 5				4.2		20.0			
Tetrahydrofuran	0.7657 1.4369	1.1351 1.4863	1.3742	1.4156	1.4367	Ave		1.292 9				20.1	*	20.0			
Chloroform	0.3942 0.4128	0.3788 0.4014	0.4006	0.3995	0.4147	Ave		0.400 3			0.2000	3.0		20.0			
1,1,1-Trichloroethane	0.3154 0.3548	0.3228 0.3456	0.3510	0.3368	0.3631	Ave		0.341 4			0.1000	5.1		20.0			
Cyclohexane	0.2714 0.3652	0.3352 0.3538	0.3361	0.3315	0.3738	Ave		0.338 1			0.1000	9.9		20.0			
Carbon tetrachloride	0.2724 0.3133	0.2797 0.3068	0.2975	0.2953	0.3172	Ave		0.297 5			0.1000	5.6		20.0			
1,1-Dichloropropene	0.2969 0.3172	0.2842 0.3130	0.2978	0.2967	0.3210	Ave		0.303 8				4.4		20.0			
Isobutyl alcohol	0.1613 0.2730	0.2302 0.2723	0.2219	0.2318	0.2558	Ave		0.235 2				16.4		20.0			
Benzene	0.8754 0.9621	0.8623 0.9429	0.9185	0.9137	0.9722	Ave		0.921 0			0.5000	4.5		20.0			
1,2-Dichloroethane	0.2262 0.2511	0.2346 0.2378	0.2411	0.2449	0.2590	Ave		0.242 1			0.1000	4.5		20.0			
t-Amyl methyl ether	0.5148 0.5676	0.5095 0.5567	0.5534	0.5464	0.5725	Ave		0.545 8				4.5		20.0			
n-Heptane	0.2052 0.2694	0.2533 0.2671	0.2489	0.2475	0.2893	Ave		0.254 4				10.3		20.0			
n-Butanol	+++++ 0.2129	0.0876 0.2158	0.1421	0.1662	0.1855	Lin	-8.50 1	0.219 6							1.0000		0.9900

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.: 410-185105-1 Analy Batch No.: 529291
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: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Trichloroethene	0.2292 0.2533	0.2329 0.2489	0.2426	0.2404	0.2508	Ave		0.242 6			0.2000	3.8		20.0			
Methylcyclohexane	0.2501 0.3757	0.3322 0.3683	0.3526	0.3402	0.3865	Ave		0.343 7			0.1000	13.2		20.0			
1,2-Dichloropropane	0.2159 0.2432	0.2166 0.2421	0.2350	0.2305	0.2456	Ave		0.232 7			0.1000	5.3		20.0			
Methyl methacrylate	++++ 10.560	6.4279 11.092	9.0083	9.6296	10.016	Ave		9.455 8				17.4		20.0			
1,4-Dioxane	++++ 0.0439	0.0116 0.0401	0.0251	0.0375	0.0378	Qua	-1.15 1	0.047 7	-0.000005		0.0050				0.9990		0.9900
Dibromomethane	0.0921 0.1136	0.1045 0.1132	0.1056	0.1113	0.1168	Ave		0.108 2				7.7		20.0			
Bromodichloromethane	0.2517 0.2947	0.2685 0.2928	0.2793	0.2840	0.2978	Ave		0.281 3			0.2000	5.9		20.0			
2-Nitropropane	3.2056 3.1951	2.8532 3.2448	3.0951	3.0174	3.0571	Ave		3.095 5				4.4		20.0			
1-Bromo-2-chloroethane	0.1694 0.2272	0.1991 0.2193	0.2083	0.1952	0.2145	Ave		0.204 7				9.3		20.0			
cis-1,3-Dichloropropene	0.2978 0.3709	0.3061 0.3684	0.3438	0.3430	0.3679	Ave		0.342 5			0.2000	8.8		20.0			
4-Methyl-2-pentanone (MIBK)	10.310 13.091	10.975 13.511	12.382	12.789	12.955	Ave		12.28 7			0.1000	9.7		20.0			
Toluene	0.7752 0.8210	0.7318 0.8087	0.7947	0.7848	0.8173	Ave		0.790 5			0.4000	3.9		20.0			
trans-1,3-Dichloropropene	0.3246 0.3995	0.3267 0.4016	0.3709	0.3644	0.3932	Ave		0.368 7			0.1000	8.8		20.0			
Ethyl methacrylate	0.2163 0.3056	0.2083 0.3123	0.2539	0.2701	0.2997	Ave		0.266 6				15.9		20.0			
1,1,2-Trichloroethane	0.2085 0.2141	0.1977 0.2106	0.2161	0.2047	0.2195	Ave		0.210 2			0.1000	3.5		20.0			
Tetrachloroethene	0.3584 0.3826	0.3465 0.3730	0.3640	0.3626	0.3842	Ave		0.367 3			0.2000	3.7		20.0			
1,3-Dichloropropane	0.3169 0.3786	0.3279 0.3725	0.3667	0.3583	0.3793	Ave		0.357 2				7.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1 Analy Batch No.: 529291
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: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	+++++ 8.8818	6.1595 9.1901	7.7504	8.1483	8.6193	Ave		8.124 9			0.1000	13.4		20.0			
Dibromochloromethane	0.2285 0.2781	0.2336 0.2785	0.2601	0.2591	0.2784	Ave		0.259 5				8.2		20.0			
1,2-Dibromoethane (EDB)	0.1675 0.2105	0.1789 0.2062	0.1992	0.1966	0.2084	Ave		0.195 3			0.1000	8.3		20.0			
1-Chlorohexane	0.4784 0.4496	0.4258 0.4410	0.4264	0.4160	0.4495	Ave		0.441 0				4.7		20.0			
Chlorobenzene	0.8575 0.9102	0.8030 0.8864	0.8667	0.8575	0.8973	Ave		0.868 4			0.5000	4.0		20.0			
1,1,1,2-Tetrachloroethane	0.2849 0.3222	0.2742 0.3183	0.3083	0.2999	0.3175	Ave		0.303 6				6.0		20.0			
Ethylbenzene	1.4660 1.6186	1.4336 1.6027	1.4969	1.5170	1.5999	Ave		1.533 5			0.1000	4.8		20.0			
m&p-Xylene	0.5274 0.6226	0.5351 0.6155	0.5803	0.5827	0.6132	Ave		0.582 4			0.1000	6.6		20.0			
o-Xylene	0.5319 0.6082	0.5488 0.6026	0.5621	0.5700	0.5992	Ave		0.574 7			0.3000	5.1		20.0			
Styrene	0.7555 1.0003	0.7790 0.9964	0.8572	0.8830	0.9643	Ave		0.890 8			0.3000	11.3		20.0			
Bromoform	0.1531 0.1722	0.1423 0.1758	0.1623	0.1639	0.1707	Ave		0.162 9			0.1000	7.3		20.0			
Isopropylbenzene	1.2582 1.4902	1.2700 1.4697	1.3813	1.3709	1.4628	Ave		1.386 2			0.1000	6.8		20.0			
1,1,2,2-Tetrachloroethane	0.4125 0.4743	0.4195 0.4646	0.4612	0.4589	0.4766	Ave		0.452 5			0.3000	5.7		20.0			
Bromobenzene	0.6371 0.6784	0.6227 0.6626	0.6639	0.6600	0.6855	Ave		0.658 6				3.3		20.0			
trans-1,4-Dichloro-2-butene	3.7193 5.3684	4.3938 5.5978	5.0390	5.1499	5.2002	Ave		4.924 1				13.2		20.0			
1,2,3-Trichloropropane	0.1005 0.1235	0.0986 0.1209	0.1301	0.1205	0.1259	Ave		0.117 1				10.6		20.0			
N-Propylbenzene	2.9944 3.3198	2.9094 3.2905	3.0637	3.1783	3.2782	Ave		3.147 8				5.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1 Analy Batch No.: 529291
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: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	0.5880 0.6823	0.6023 0.6639	0.6514	0.6528	0.6731	Ave		0.644 8				5.6		20.0			
1,3,5-Trimethylbenzene	2.0763 2.3721	2.0111 2.3347	2.1865	2.1951	2.3195	Ave		2.213 6				6.2		20.0			
4-Chlorotoluene	0.6090 0.6919	0.6035 0.6832	0.6355	0.6626	0.6829	Ave		0.652 6				5.6		20.0			
tert-Butylbenzene	0.4802 0.5164	0.4606 0.5089	0.5112	0.4797	0.5072	Ave		0.494 9				4.3		20.0			
Pentachloroethane	0.2727 0.3998	0.3133 0.3851	0.3494	0.3236	0.3685	Ave		0.344 6				12.9		20.0			
1,2,4-Trimethylbenzene	2.0098 2.3943	2.0094 2.3676	2.1619	2.2224	2.3420	Ave		2.215 3				7.3		20.0			
sec-Butylbenzene	2.4834 2.9382	2.5336 2.8990	2.6736	2.7122	2.8942	Ave		2.733 5				6.7		20.0			
1,3-Dichlorobenzene	1.1604 1.3272	1.1228 1.3072	1.2493	1.2448	1.2956	Ave		1.243 9			0.6000	6.2		20.0			
p-Isopropyltoluene	2.1311 2.5839	2.1093 2.5346	2.3211	2.3525	2.4773	Ave		2.358 6				8.0		20.0			
1,4-Dichlorobenzene	1.2927 1.3454	1.2282 1.2987	1.2508	1.2743	1.3146	Ave		1.286 4			0.5000	3.1		20.0			
1,2,3-Trimethylbenzene	0.9194 1.0528	0.9528 1.0410	1.0259	0.9952	1.0310	Ave		1.002 6				5.0		20.0			
Benzyl chloride	0.1239 0.2028	0.1407 0.2007	0.1692	0.1816	0.1982	Ave		0.173 9				17.9		20.0			
n-Butylbenzene	0.9326 1.2159	0.8990 1.2045	1.0419	1.0855	1.1692	Ave		1.078 4				11.8		20.0			
1,2-Dichlorobenzene	1.0345 1.1897	1.0822 1.1788	1.1332	1.1478	1.1965	Ave		1.137 5			0.4000	5.3		20.0			
1,2-Dibromo-3-Chloropropane	++++ 0.0671	0.0444 0.0683	0.0573	0.0590	0.0659	Ave		0.060 3			0.0500	14.9		20.0			
1,3,5-Trichlorobenzene	0.7547 0.9434	0.7750 0.9207	0.8253	0.8369	0.8968	Ave		0.850 4				8.5		20.0			
1,2,4-Trichlorobenzene	0.4543 0.7875	0.5816 0.7784	0.6388	0.6766	0.7358	Ave		0.664 7			0.2000	17.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1 Analy Batch No.: 529291
 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: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexachlorobutadiene	0.2430 0.2731	0.2386 0.2659	0.2395	0.2380	0.2584	Ave		0.250 9				5.8		20.0			
Naphthalene	0.8384 1.3212	0.8460 1.3279	1.0899	1.1374	1.2490	Ave		1.115 7				18.5		20.0			
1,2,3-Trichlorobenzene	0.4455 0.6228	0.4331 0.6203	0.5223	0.5232	0.5788	Ave		0.535 1				14.4		20.0			
Dibromofluoromethane (Surr)	0.2432 0.2452	0.2443 0.2446	0.2456	0.2455	0.2460	Ave		0.244 9				0.4		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0486 0.0494	0.0505 0.0497	0.0498	0.0512	0.0510	Ave		0.050 0				1.9		20.0			
Toluene-d8 (Surr)	1.2979 1.3077	1.2957 1.3111	1.2973	1.2975	1.2965	Ave		1.300 5				0.5		20.0			
4-Bromofluorobenzene (Surr)	0.4781 0.4930	0.4846 0.4881	0.4857	0.4853	0.4847	Ave		0.485 6				0.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1 Analy Batch No.: 529291
Environment Testing, LLC

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-529291/13	HL17X12.D
Level 2	IC 410-529291/14	HL17X13.D
Level 3	IC 410-529291/15	HL17X14.D
Level 4	IC 410-529291/16	HL17X15.D
Level 5	IC 410-529291/17	HL17X16.D
Level 6	ICIS 410-529291/18	HL17X17.D
Level 7	IC 410-529291/19	HL17X18.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	9281 587472	26885 1390259	55411	103135	285274	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	14857 698279	32575 1679210	63839	127199	341207	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	10106 647940	25928 1555751	53326	115676	321741	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	12300 653418	29955 1591540	62326	114386	315003	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	8528 466775	19960 1163825	42344	81600	223017	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	7050 384021	17413 956602	35519	68519	185950	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	20724 1042688	46614 2580407	98322	186601	508235	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	13263 796394	36023 1932750	76358	141253	395462	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	4503 316557	13110 772815	28630	53590	150219	0.200 10.00	0.500 25.0	1.000	2.00	5.00
Freon 123a	FB	Ave	10967 586623	26460 1412036	55610	102520	287233	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd1 0	Ave	33051 2539491	95690 6650715	210009	440712	1245451	10.0 501	25.1 1253	50.1	100	251
1,1-Dichloroethene	FB	Ave	7790 399604	18076 1005469	35938	73081	203584	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAd1 0	Ave	11562 576319	23832 1448343	53263	108891	291520	2.00 100	5.00 250	10.0	20.0	50.0
Freon 113	FB	Ave	5656 414973	17239 1032485	39060	74381	213087	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1 Analy Batch No.: 529291
Environment Testing, LLC

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl iodide	FB	Ave	14127 805987	35150 2023940	74851	149959	404273	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl bromide	FB	Ave	5926 381365	16513 903862	34911	63457	178273	0.200 10.0	0.501 25.0	1.00	2.00	5.01
Carbon disulfide	FB	Ave	19127 1152754	52314 2908751	110507	214076	578928	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd1 0	Ave	++++ 147389	8380 432127	13056	27571	75415	++++ 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	12491 712108	30519 1788984	64088	131675	355706	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	10587 476063	22554 1180149	47257	91222	240812	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd1 0	Ave	5548 346202	14295 758970	30018	57937	163655	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd1 0	Ave	++++ 212540	++++ 548794	14296	34281	103737	++++ 25.0	++++ 62.5	2.50	5.00	12.5
Methyl tert-butyl ether	FB	Ave	19803 1110851	49418 2778282	102828	206688	556492	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	8623 476229	20498 1199328	44322	86294	234115	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	7125 590406	24651 1485686	53002	105375	310523	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	16367 913187	39649 2271882	83665	168074	444557	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	25956 1523642	65281 3830292	137917	277041	738059	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	12303 743137	29250 1884751	65626	130622	370346	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	24061 1408237	59901 3508822	130910	256859	697966	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone (MEK)	TBAd1 0	Ave	14149 1076984	38427 2730512	82055	183369	518321	2.00 100	5.00 250	10.0	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	9603 547319	23403 1376940	49049	100203	269274	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	13650 748609	33367 1868801	69697	138589	371657	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

Analy Batch No.: 529291

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Propionitrile	TBAd10	Lin1	3742 584907	14411 1515126	38959	80750	259240	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd10	Ave	15948 1175144	45314 3001946	102907	210419	592679	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	4033 228390	9734 576871	21538	42127	114725	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd10	Ave	1507 155153	5763 399453	14034	28231	79216	1.00 50.0	2.50 125	5.00	10.0	25.0
Chloroform	FB	Ave	16286 899884	39062 2246519	83817	166424	445327	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	13029 773530	33285 1934110	73445	140304	389907	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	11211 796170	34562 1980148	70327	138098	401385	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	11253 682958	28843 1717084	62248	123016	340591	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	12264 691520	29310 1751486	62311	123604	344654	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	TBAd10	Ave	3175 294776	11688 731832	22663	46228	141060	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	36165 2097432	88920 5276356	192189	380618	1043911	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	9347 547413	24189 1330758	50438	102042	278071	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	21269 1237336	52534 3115580	115791	227609	614715	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	8478 587317	26119 1494791	52085	103113	310620	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butanol	TBAd10	Lin	++++ 402360	7780 1014924	25393	58005	178991	++++ 875	43.8 2188	87.5	175	438
Trichloroethene	FB	Ave	9471 552202	24013 1392945	50755	100129	269294	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	10334 819028	34255 2060812	73783	141729	415012	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	8921 530100	22332 1354768	49174	96005	263728	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1 Analy Batch No.: 529291
Environment Testing, LLC

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl methacrylate	TBA01	Ave	++++ 228062	6527 596211	18399	38407	110457	++++ 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBA01	Qua	++++ 47428	589 107802	2565	7477	20852	++++ 500	25.0 1250	50.0	100	250
Dibromomethane	FB	Ave	3806 247699	10776 633709	22087	46352	125447	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromodichloromethane	FB	Ave	10400 642408	27688 1638596	58441	118299	319788	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBA01	Ave	6309 345002	14486 872051	31608	60174	168568	1.00 50.0	2.50 125	5.00	10.0	25.0
1-Bromo-2-chloroethane	FB	Ave	7000 495195	20534 1227279	43589	81329	230339	0.200 10.0	0.500 25.0	1.00	2.00	5.00
cis-1,3-Dichloropropene	FB	Ave	12302 808503	31561 2061318	71938	142894	395013	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone (MIBK)	TBA01	Ave	40581 2827093	111439 7262315	252892	510085	1428635	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd5	Ave	24042 1340114	56769 3402986	124876	247257	662789	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd5	Ave	10067 652095	25343 1689983	58273	114809	318847	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd5	Ave	6709 498734	16157 1314201	39892	85090	243024	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2-Trichloroethane	CBZd5	Ave	6466 349512	15332 886188	33952	64482	177984	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd5	Ave	11115 624529	26882 1569688	57194	114229	311584	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd5	Ave	9829 617884	25437 1567708	57623	112880	307626	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBA01	Ave	++++ 1918103	62545 4939746	158297	324991	950515	++++ 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd5	Ave	7087 453939	18118 1171893	40865	81625	225771	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane (EDB)	CBZd5	Ave	5196 343565	13881 867822	31297	61941	169021	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd5	Ave	14836 733881	33028 1855929	67008	131072	364522	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1 Analy Batch No.: 529291
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBZd5	Ave	26594 1485707	62292 3730004	136192	270180	727641	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd5	Ave	8837 525952	21272 1339564	48436	94490	257505	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd5	Ave	45467 2641863	111205 6744183	235206	477950	1297457	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd5	Ave	32712 2032315	83022 5180338	182367	367164	994582	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd5	Ave	16496 992658	42571 2535817	88319	179587	485891	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Styrene	CBZd5	Ave	23431 1632673	60431 4192983	134692	278205	781985	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd5	Ave	4748 281032	11036 739939	25505	51626	138401	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd5	Ave	39023 2432389	98516 6184746	217049	431939	1186225	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd4	Ave	7090 437490	18015 1114431	40234	80095	216990	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd4	Ave	10950 625710	26744 1589303	57921	115186	312064	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	TBA d1 0	Ave	14640 1159365	44616 3008869	102918	205401	573467	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd4	Ave	1727 113942	4234 289878	11352	21029	57302	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd4	Ave	51467 3062153	124947 7892215	267298	554694	1492472	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd4	Ave	10107 629303	25865 1592312	56830	113923	306440	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd4	Ave	35688 2188011	86372 5599818	190766	383098	1055997	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd4	Ave	10468 638169	25919 1638599	55441	115637	310904	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd4	Ave	8253 476317	19782 1220631	44596	83719	230890	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Pentachloroethane	DCBd4	Ave	4688 368744	13457 923575	30480	56475	167767	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd4	Ave	34544 2208421	86299 5678638	188617	387876	1066239	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd4	Ave	42685	108808	233265	473356	1317645	0.200	0.500	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1 Analy Batch No.: 529291
Environment Testing, LLC

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			2710113	6953178				10.0	25.0			
1,3-Dichlorobenzene	DCBd4	Ave	19945 1224157	48221 3135342	108997	217258	589863	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd4	Ave	36629 2383370	90589 6079183	202510	410578	1127839	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd4	Ave	22219 1240941	52746 3114969	109131	222405	598508	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd4	Ave	15803 971057	40918 2496878	89509	173683	469362	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd4	Ave	2129 187101	6041 481305	14761	31696	90213	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd4	Ave	16029 1121539	38611 2888960	90904	189440	532292	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd4	Ave	17781 1097357	46477 2827219	98865	200320	544734	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	+++++ 61851	1908 163782	4998	10305	30004	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd4	Ave	12971 870172	33284 2208226	72008	146055	408296	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trichlorobenzene	DCBd4	Ave	7808 726353	24976 1867004	55732	118082	334967	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd4	Ave	4176 251887	10248 637788	20896	41538	117651	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd4	Ave	14411 1218640	36332 3184979	95090	198506	568628	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd4	Ave	7658 574468	18601 1487843	45567	91311	263494	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	502284 534478	503731 547498	513921	511296	528198	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	100335 107624	104077 111324	104171	106746	109485	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd5	Ave	2012610 2134408	2010119 2206861	2038483	2043996	2102825	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd5	Ave	741332 804668	751834 821565	763245	764534	786176	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.: 410-185105-1 Analy Batch No.: 529291
Environment Testing, LLC

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date:	07/17/2024	17:30	Calibration End Date:	07/17/2024	19:35	Calibration ID:	63923
-------------------------	------------	-------	-----------------------	------------	-------	-----------------	-------

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1 Analy Batch No.: 529291
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: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-529291/13	HL17X12.D
Level 2	IC 410-529291/14	HL17X13.D
Level 3	IC 410-529291/15	HL17X14.D
Level 4	IC 410-529291/16	HL17X15.D
Level 5	IC 410-529291/17	HL17X16.D
Level 6	ICIS 410-529291/18	HL17X17.D
Level 7	IC 410-529291/19	HL17X18.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	-11.7 -2.4	2.5	4.1	-2.7	4.4	5.9	50 30	30	30	30	30	30
Chloromethane	13.2 -5.6	-0.6	-4.0	-3.9	0.0	0.8	50 30	30	30	30	30	30
1,3-Butadiene	-10.0 2.2	-7.5	-6.3	2.1	10.2	9.3	50 30	30	30	30	30	30
Vinyl chloride	2.3 -2.3	-0.2	2.3	-5.7	0.8	2.9	50 30	30	30	30	30	30
Bromomethane	1.2 1.9	-5.1	-0.8	-4.0	1.8	5.0	50 30	30	30	30	30	30
Chloroethane	0.0 0.2	-1.0	-0.5	-3.6	1.5	3.3	50 30	30	30	30	30	30
Dichlorofluoromethane	6.9 -1.7	-3.6	0.2	-4.5	0.9	1.9	50 30	30	30	30	30	30
Trichlorofluoromethane	-8.4 -1.5	-0.3	4.1	-3.3	5.1	4.2	50 30	30	30	30	30	30
Ethyl ether	-17.5 4.5	-3.8	3.6	-2.6	5.9	9.9	50 30	30	30	30	30	30
Freon 123a	1.9 -3.1	-1.5	2.1	-5.5	2.7	3.3	50 30	30	30	30	30	30
Acrolein	-21.2 16.1	-11.5	-3.5	3.7	6.0	10.4	50 30	30	30	30	30	30
1,1-Dichloroethene	4.5 -0.5	-2.9	-4.9	-2.8	5.0	1.5	50 30	30	30	30	30	30
Acetone	10.4 1.3	-11.8	-2.0	2.6	-0.7	0.3	50 30	30	30	30	30	30
Freon 113	-22.9 3.9	-5.8	5.2	0.6	11.8	7.2	50 30	30	30	30	30	30
Methyl iodide	-4.6 0.9	-4.9	-0.2	0.5	5.1	3.2	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1 Analy Batch No.: 529291
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: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Ethyl bromide	-10.8 0.5	-0.4	3.8	-5.2	3.3	8.8	50 30	30	30	30	30	30
Carbon disulfide	-10.0 1.1	-1.4	2.7	-0.1	4.8	2.8	50 30	30	30	30	30	30
Methyl acetate	++++ 11.5	14.5	-11.3	-4.1	-5.2	-5.3	30	50	30	30	30	30
Allyl chloride	-3.7 1.8	-5.8	-2.5	0.6	5.5	4.0	50 30	30	30	30	30	30
Methylene Chloride	14.0 -6.2	-2.7	0.5	-2.6	-0.2	-2.8	50 30	30	30	30	30	30
t-Butyl alcohol	-3.6 -3.5	-3.8	0.5	-0.7	1.5	9.6	50 30	30	30	30	30	30
Acrylonitrile	++++ 13.3	++++	-22.3	-4.6	4.4	9.2	30		50	30	30	30
Methyl tert-butyl ether	-3.3 0.1	-3.3	-0.9	0.1	4.5	2.8	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-1.1 1.6	-5.8	0.4	-1.8	3.3	3.5	50 30	30	30	30	30	30
n-Hexane	-30.7 6.6	-4.0	1.7	1.6	16.1	8.7	50 30	30	30	30	30	30
1,1-Dichloroethane	-1.8 0.7	-4.7	-0.8	0.0	2.7	3.9	50 30	30	30	30	30	30
di-Isopropyl ether	-5.5 2.9	-4.8	-0.9	0.0	3.3	5.1	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-6.6 5.7	-11.0	-1.6	-1.6	8.2	6.9	50 30	30	30	30	30	30
Ethyl t-butyl ether	-5.8 1.4	-6.1	1.2	-0.3	5.1	4.5	50 30	30	30	30	30	30
2-Butanone (MEK)	-18.2 15.6	-13.9	-8.6	4.6	7.0	13.5	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-3.3 2.4	-5.6	-2.5	0.1	4.4	4.5	50 30	30	30	30	30	30
2,2-Dichloropropane	-1.3 -0.2	-3.3	-0.5	-0.6	3.4	2.6	50 30	30	30	30	30	30
Propionitrile	38.9 3.3	-6.7	-9.8	-16.0	-10.3	0.6	50 30	30	30	30	30	30
Methacrylonitrile	-19.5 11.0	-11.3	0.1	4.8	6.8	8.1	50 30	30	30	30	30	30
Bromochloromethane	-3.9 1.5	-7.0	1.4	-0.4	5.2	3.2	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1 Analy Batch No.: 529291
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: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Tetrahydrofuran	-40.8 15.0	-12.2	6.3	9.5	11.1	11.1	50 30	30	30	30	30	30
Chloroform	-1.5 0.3	-5.4	0.1	-0.2	3.6	3.1	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-7.6 1.2	-5.4	2.8	-1.3	6.4	3.9	50 30	30	30	30	30	30
Cyclohexane	-19.7 4.6	-0.9	-0.6	-2.0	10.5	8.0	50 30	30	30	30	30	30
Carbon tetrachloride	-8.4 3.2	-6.0	0.0	-0.7	6.6	5.3	50 30	30	30	30	30	30
1,1-Dichloropropene	-2.3 3.0	-6.4	-2.0	-2.3	5.6	4.4	50 30	30	30	30	30	30
Isobutyl alcohol	-31.4 15.8	-2.1	-5.6	-1.4	8.8	16.1	50 30	30	30	30	30	30
Benzene	-5.0 2.4	-6.4	-0.3	-0.8	5.6	4.5	50 30	30	30	30	30	30
1,2-Dichloroethane	-6.5 -1.8	-3.1	-0.4	1.2	7.0	3.7	50 30	30	30	30	30	30
t-Amyl methyl ether	-5.7 2.0	-6.7	1.4	0.1	4.9	4.0	50 30	30	30	30	30	30
n-Heptane	-19.3 5.0	-0.4	-2.2	-2.7	13.7	5.9	50 30	30	30	30	30	30
n-Butanol	++++ 0.0	28.4	8.9	-2.2	-6.7	1.4	30	50	30	30	30	30
Trichloroethene	-5.5 2.6	-4.0	0.0	-0.9	3.4	4.4	50 30	30	30	30	30	30
Methylcyclohexane	-27.2 7.2	-3.3	2.6	-1.0	12.5	9.3	50 30	30	30	30	30	30
1,2-Dichloropropane	-7.2 4.0	-6.9	1.0	-1.0	5.6	4.5	50 30	30	30	30	30	30
Methyl methacrylate	++++ 17.3	-32.0	-4.7	1.8	5.9	11.7	30	50	30	30	30	30
1,4-Dioxane	++++ -0.1	21.2	1.4	3.9	-8.8	2.7	30	50	30	30	30	30
Dibromomethane	-14.8 4.7	-3.4	-2.4	2.9	8.0	5.0	50 30	30	30	30	30	30
Bromodichloromethane	-10.5 4.1	-4.5	-0.7	1.0	5.9	4.8	50 30	30	30	30	30	30
2-Nitropropane	3.6 4.8	-7.8	0.0	-2.5	-1.2	3.2	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1 Analy Batch No.: 529291
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: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1-Bromo-2-chloroethane	-17.2 7.1	-2.7	1.8	-4.6	4.8	11.0	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-13.1 7.5	-10.6	0.4	0.1	7.4	8.3	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	-16.1 10.0	-10.7	0.8	4.1	5.4	6.5	50 30	30	30	30	30	30
Toluene	-1.9 2.3	-7.4	0.5	-0.7	3.4	3.9	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-12.0 8.9	-11.4	0.6	-1.2	6.6	8.4	50 30	30	30	30	30	30
Ethyl methacrylate	-18.9 17.1	-21.9	-4.8	1.3	12.4	14.6	50 30	30	30	30	30	30
1,1,2-Trichloroethane	-0.8 0.2	-5.9	2.8	-2.6	4.4	1.9	50 30	30	30	30	30	30
Tetrachloroethene	-2.4 1.5	-5.7	-0.9	-1.3	4.6	4.2	50 30	30	30	30	30	30
1,3-Dichloropropane	-11.3 4.3	-8.2	2.7	0.3	6.2	6.0	50 30	30	30	30	30	30
2-Hexanone	+++++ 13.1	-24.2	-4.6	0.3	6.1	9.3	30	50	30	30	30	30
Dibromochloromethane	-11.9 7.3	-10.0	0.2	-0.1	7.3	7.2	50 30	30	30	30	30	30
1,2-Dibromoethane (EDB)	-14.2 5.6	-8.4	2.0	0.6	6.7	7.8	50 30	30	30	30	30	30
1-Chlorohexane	8.5 0.0	-3.4	-3.3	-5.7	1.9	2.0	50 30	30	30	30	30	30
Chlorobenzene	-1.3 2.1	-7.5	-0.2	-1.2	3.3	4.8	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-6.2 4.8	-9.7	1.5	-1.2	4.6	6.1	50 30	30	30	30	30	30
Ethylbenzene	-4.4 4.5	-6.5	-2.4	-1.1	4.3	5.5	50 30	30	30	30	30	30
m&p-Xylene	-9.4 5.7	-8.1	-0.4	0.0	5.3	6.9	50 30	30	30	30	30	30
o-Xylene	-7.4 4.9	-4.5	-2.2	-0.8	4.3	5.8	50 30	30	30	30	30	30
Styrene	-15.2 11.9	-12.5	-3.8	-0.9	8.2	12.3	50 30	30	30	30	30	30
Bromoform	-6.0 7.9	-12.7	-0.3	0.6	4.8	5.7	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1 Analy Batch No.: 529291
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: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Isopropylbenzene	-9.2 6.0	-8.4	-0.3	-1.1	5.5	7.5	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-8.8 2.7	-7.3	1.9	1.4	5.3	4.8	50 30	30	30	30	30	30
Bromobenzene	-3.3 0.6	-5.4	0.8	0.2	4.1	3.0	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-24.5 13.7	-10.8	2.3	4.6	5.6	9.0	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-14.2 3.2	-15.8	11.1	2.9	7.5	5.5	50 30	30	30	30	30	30
N-Propylbenzene	-4.9 4.5	-7.6	-2.7	1.0	4.1	5.5	50 30	30	30	30	30	30
2-Chlorotoluene	-8.8 3.0	-6.6	1.0	1.2	4.4	5.8	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-6.2 5.5	-9.1	-1.2	-0.8	4.8	7.2	50 30	30	30	30	30	30
4-Chlorotoluene	-6.7 4.7	-7.5	-2.6	1.5	4.6	6.0	50 30	30	30	30	30	30
tert-Butylbenzene	-3.0 2.8	-6.9	3.3	-3.1	2.5	4.4	50 30	30	30	30	30	30
Pentachloroethane	-20.9 11.7	-9.1	1.4	-6.1	6.9	16.0	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-9.3 6.9	-9.3	-2.4	0.3	5.7	8.1	50 30	30	30	30	30	30
sec-Butylbenzene	-9.1 6.1	-7.3	-2.2	-0.8	5.9	7.5	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-6.7 5.1	-9.7	0.4	0.1	4.2	6.7	50 30	30	30	30	30	30
p-Isopropyltoluene	-9.6 7.5	-10.6	-1.6	-0.3	5.0	9.6	50 30	30	30	30	30	30
1,4-Dichlorobenzene	0.5 1.0	-4.5	-2.8	-0.9	2.2	4.6	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-8.3 3.8	-5.0	2.3	-0.7	2.8	5.0	50 30	30	30	30	30	30
Benzyl chloride	-28.8 15.4	-19.1	-2.7	4.5	14.0	16.7	50 30	30	30	30	30	30
n-Butylbenzene	-13.5 11.7	-16.6	-3.4	0.7	8.4	12.8	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-9.1 3.6	-4.9	-0.4	0.9	5.2	4.6	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1 Analy Batch No.: 529291
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: 07/17/2024 17:30 Calibration End Date: 07/17/2024 19:35 Calibration ID: 63923

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,2-Dibromo-3-Chloropropane	+++++ 13.2	-26.4	-5.1	-2.1	9.2	11.1	30	50	30	30	30	30
1,3,5-Trichlorobenzene	-11.3 8.3	-8.9	-2.9	-1.6	5.5	10.9	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-31.7 17.1	-12.5	-3.9	1.8	10.7	18.5	50 30	30	30	30	30	30
Hexachlorobutadiene	-3.2 6.0	-4.9	-4.6	-5.2	3.0	8.8	50 30	30	30	30	30	30
Naphthalene	-24.9 19.0	-24.2	-2.3	1.9	11.9	18.4	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-16.7 15.9	-19.1	-2.4	-2.2	8.2	16.4	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-0.7 -0.1	-0.3	0.3	0.2	0.4	0.1	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	-2.9 -0.6	0.9	-0.5	2.5	1.9	-1.3	50 30	30	30	30	30	30
Toluene-d8 (Surr)	-0.2 0.8	-0.4	-0.2	-0.2	-0.3	0.6	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-1.6 0.5	-0.2	0.0	-0.1	-0.2	1.5	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D
 Lims ID: IC std1 0.2
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 17-Jul-2024 17:30:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119602-013
 Misc. Info.: IC std1 0.2
 Operator ID: knk41612 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 18-Jul-2024 22:30:48 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1666

First Level Reviewer: DVW2

Date: 18-Jul-2024 08:28:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.873	1.879	-0.006	33	9281	0.2000	0.1766	
5 Chloromethane	50	2.068	2.074	-0.006	97	14857	0.2000	0.2264	
7 Butadiene	39	2.160	2.166	-0.006	92	10106	0.2000	0.1799	
6 Vinyl chloride	62	2.172	2.178	-0.006	97	12300	0.2000	0.2045	
9 Bromomethane	94	2.501	2.513	-0.012	93	8528	0.2000	0.2024	M
10 Chloroethane	64	2.544	2.550	-0.006	97	7050	0.2000	0.2001	
11 Dichlorofluoromethane	67	2.751	2.769	-0.018	95	20724	0.2000	0.2138	
12 Trichlorofluoromethane	101	2.776	2.867	-0.091	58	13263	0.2000	0.1832	
14 Ethyl ether	59	3.056	3.056	0.000	85	4503	0.2000	0.1650	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.135	3.135	0.000	42	10967	0.2000	0.2039	
16 Acrolein	56	3.227	3.215	0.013	97	33051	10.0	7.90	
17 1,1-Dichloroethene	96	3.336	3.349	-0.013	96	7790	0.2000	0.2089	
19 Acetone	43	3.403	3.367	0.036	68	11562	2.00	2.21	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.367	3.391	-0.024	72	5656	0.2000	0.1542	
21 Iodomethane	142	3.538	3.532	0.006	99	14127	0.2000	0.1908	
22 Ethyl bromide	108	3.550	3.556	-0.006	94	5926	0.2003	0.1788	
23 Carbon disulfide	76	3.629	3.635	-0.006	99	19127	0.2000	0.1800	
24 Methyl acetate	43	3.842	3.769	0.073	24	3235	0.2000	0.2280	M
26 3-Chloro-1-propene	41	3.794	3.788	0.006	89	12491	0.2000	0.1926	
27 Methylene Chloride	84	3.958	3.964	-0.006	61	10587	0.2000	0.2280	
* 28 t-Butyl alcohol-d10 (IS)	65	3.970	3.983	-0.013	53	98405	50.0	50.0	
29 2-Methyl-2-propanol	59	4.074	4.080	-0.006	6	5548	4.00	3.85	
31 Acrylonitrile	53	4.348	4.281	0.067	19	847	0.5000	0.1194	M
32 Methyl tert-butyl ether	73	4.336	4.348	-0.012	94	19803	0.2000	0.1934	
33 trans-1,2-Dichloroethene	96	4.361	4.361	0.000	98	8623	0.2000	0.1978	
34 Hexane	57	4.775	4.787	-0.012	93	7125	0.2000	0.1385	
36 1,1-Dichloroethane	63	5.007	5.013	-0.006	93	16367	0.2000	0.1965	
37 Isopropyl ether	45	5.086	5.074	0.012	96	25956	0.2000	0.1889	
38 2-Chloro-1,3-butadiene	53	5.135	5.129	0.006	89	12303	0.2000	0.1869	
40 Tert-butyl ethyl ether	59	5.616	5.616	0.000	98	24061	0.2000	0.1884	

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	5.885	5.824	0.061	61	14149	2.00	1.64	
42 cis-1,2-Dichloroethene	96	5.848	5.854	-0.006	82	9603	0.2000	0.1934	
43 2,2-Dichloropropane	77	5.866	5.866	0.000	82	13650	0.2000	0.1974	
44 Propionitrile	54	5.970	5.903	0.067	1	3742	4.00	5.55	M
47 Methacrylonitrile	67	6.147	6.122	0.025	93	15948	2.00	1.61	
S 46 1,2-Dichloroethene, Total	100				0			0.3912	
48 Chlorobromomethane	128	6.190	6.190	0.000	90	4033	0.2000	0.1923	
49 Tetrahydrofuran	71	6.226	6.208	0.018	49	1507	1.00	0.5922	
50 Chloroform	83	6.342	6.342	0.000	93	16286	0.2000	0.1970	
\$ 52 Dibromofluoromethane (Surr)	113	6.555	6.561	-0.006	94	502284	10.0	9.93	
53 1,1,1-Trichloroethane	97	6.580	6.574	0.006	36	13029	0.2000	0.1848	
54 Cyclohexane	56	6.677	6.677	0.000	92	11211	0.2000	0.1605	
56 Carbon tetrachloride	117	6.793	6.787	0.006	87	11253	0.2000	0.1831	
55 1,1-Dichloropropene	75	6.799	6.793	0.006	94	12264	0.2000	0.1954	
57 Isobutyl alcohol	41	6.994	6.945	0.049	29	3175	10.0	6.86	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.025	-0.012	80	100335	10.0	9.71	
59 Benzene	78	7.055	7.055	0.000	95	36165	0.2000	0.1901	
60 1,2-Dichloroethane	62	7.122	7.128	-0.006	84	9347	0.2000	0.1869	
63 Tert-amyl methyl ether	73	7.256	7.256	0.000	96	21269	0.2000	0.1886	
* 64 Fluorobenzene (IS)	96	7.464	7.470	-0.006	99	2065681	10.0	10.0	
65 n-Heptane	43	7.482	7.482	0.000	81	8478	0.2000	0.1613	
67 n-Butanol	56		7.848				ND	ND	
68 Trichloroethene	95	7.964	7.957	0.007	95	9471	0.2000	0.1890	
69 Methylcyclohexane	83	8.274	8.268	0.006	77	10334	0.2000	0.1456	
70 1,2-Dichloropropane	63	8.287	8.287	0.000	74	8921	0.2000	0.1856	
71 2-ethoxy-2-methyl butane	87	8.305	8.305	0.000	90	13208	0.2000	0.1871	
72 Methyl methacrylate	69	8.439	8.378	0.061	41	2050	0.2000	0.1102	M
73 1,4-Dioxane	88		8.390				ND	ND	
74 Dibromomethane	93	8.415	8.403	0.012	78	3806	0.2000	0.1703	M
76 Dichlorobromomethane	83	8.640	8.634	0.006	97	10400	0.2000	0.1790	
77 2-Nitropropane	41	8.915	8.902	0.013	88	6309	1.00	1.04	M
79 1-Bromo-2-chloroethane	63	9.061	9.037	0.024	96	7000	0.2000	0.1655	M
80 cis-1,3-Dichloropropene	75	9.207	9.201	0.006	94	12302	0.2000	0.1739	
82 4-Methyl-2-pentanone (MIBK)	43	9.390	9.384	0.006	97	40581	2.00	1.68	
\$ 83 Toluene-d8 (Surr)	98	9.524	9.524	0.000	93	2012610	10.0	9.98	
84 Toluene	92	9.603	9.604	-0.001	98	24042	0.2000	0.1961	
85 trans-1,3-Dichloropropene	75	9.890	9.872	0.018	91	10067	0.2000	0.1761	
104 Ethyl methacrylate	69	9.963	9.945	0.018	80	6709	0.2000	0.1623	M
S 105 1,3-Dichloropropene, Total	100				0			0.3499	
106 1,1,2-Trichloroethane	97	10.085	10.085	0.000	89	6466	0.2000	0.1984	
107 Tetrachloroethene	166	10.177	10.177	0.000	96	11115	0.2000	0.1951	
108 1,3-Dichloropropane	76	10.262	10.250	0.012	89	9829	0.2000	0.1775	
109 2-Hexanone	43	10.335	10.305	0.030	96	17554	2.00	1.10	M
111 Chlorodibromomethane	129	10.475	10.469	0.006	88	7087	0.2000	0.1761	
112 Ethylene Dibromide	107	10.597	10.585	0.012	95	5196	0.2000	0.1715	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	1550719	10.0	10.0	
114 1-Chlorohexane	91	11.042	11.036	0.006	53	14836	0.2000	0.2170	
115 Chlorobenzene	112	11.048	11.054	-0.006	96	26594	0.2000	0.1975	
116 1,1,1,2-Tetrachloroethane	131	11.140	11.134	0.006	93	8837	0.2000	0.1877	
117 Ethylbenzene	91	11.146	11.140	0.006	98	45467	0.2000	0.1912	
S 118 Xylenes, Total	106				0			0.5473	
119 m-Xylene & p-Xylene	106	11.268	11.262	0.006	99	32712	0.4000	0.3622	

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	11.603	11.591	0.012	96	16496	0.2000	0.1851	
121 Styrene	104	11.621	11.609	0.012	94	23431	0.2000	0.1696	
122 Bromoform	173	11.774	11.768	0.006	95	4748	0.2000	0.1880	
123 Isopropylbenzene	105	11.902	11.896	0.006	95	39023	0.2000	0.1815	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	92	741332	10.0	9.84	
127 1,1,2,2-Tetrachloroethane	83	12.146	12.146	0.000	45	7090	0.2000	0.1823	M
128 Bromobenzene	156	12.164	12.158	0.006	89	10950	0.2000	0.1935	
129 trans-1,4-Dichloro-2-butene	53	12.182	12.170	0.012	92	14640	2.00	1.51	
130 1,2,3-Trichloropropane	110	12.194	12.188	0.006	75	1727	0.2000	0.1716	
131 N-Propylbenzene	91	12.237	12.231	0.006	99	51467	0.2000	0.1903	
132 2-Chlorotoluene	126	12.310	12.304	0.006	96	10107	0.2000	0.1824	
133 1,3,5-Trimethylbenzene	105	12.371	12.365	0.006	93	35688	0.2000	0.1876	
134 4-Chlorotoluene	126	12.414	12.396	0.018	96	10468	0.2000	0.1866	
135 tert-Butylbenzene	134	12.609	12.609	0.000	93	8253	0.2000	0.1941	
136 Pentachloroethane	167	12.646	12.640	0.006	77	4688	0.2000	0.1583	
137 1,2,4-Trimethylbenzene	105	12.658	12.652	0.006	98	34544	0.2000	0.1814	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	42685	0.2000	0.1817	
139 1,3-Dichlorobenzene	146	12.877	12.871	0.006	97	19945	0.2000	0.1866	
140 4-Isopropyltoluene	119	12.889	12.883	0.006	98	36629	0.2000	0.1807	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	95	859400	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.950	12.950	0.000	92	22219	0.2000	0.2010	
143 1,2,3-Trimethylbenzene	120	12.963	12.957	0.006	94	15803	0.2000	0.1834	
144 Benzyl chloride	126	13.042	13.024	0.018	97	2129	0.2000	0.1425	
145 p-Diethylbenzene	119	13.164	13.158	0.006	93	20532	0.2000	0.1736	M
146 n-Butylbenzene	92	13.188	13.176	0.012	97	16029	0.2000	0.1730	
147 1,2-Dichlorobenzene	146	13.219	13.206	0.013	97	17781	0.2000	0.1819	
149 1,2-Dibromo-3-Chloropropane	155	13.773	13.755	0.018	1	378	0.2000	0.0729	
150 1,3,5-Trichlorobenzene	180	13.895	13.877	0.018	96	12971	0.2000	0.1775	
151 1,2,4-Trichlorobenzene	180	14.322	14.304	0.018	91	7808	0.2000	0.1367	
152 Hexachlorobutadiene	225	14.389	14.383	0.006	94	4176	0.2000	0.1936	
153 Naphthalene	128	14.499	14.481	0.018	96	14411	0.2000	0.1503	
154 1,2,3-Trichlorobenzene	180	14.633	14.621	0.012	92	7658	0.2000	0.1665	
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_00137	Amount Added: 2.00	Units: uL	
MSV_LL_GAS826_00220	Amount Added: 2.00	Units: uL	
MSV_LL_#2_826_00144	Amount Added: 2.00	Units: uL	
MSV_LLcentISS_00012	Amount Added: 5.00	Units: uL	Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D

Injection Date: 17-Jul-2024 17:30:30

Instrument ID: 19094

Operator ID: knk41612

Lims ID: IC std1 0.2

Worklist Smp#: 13

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

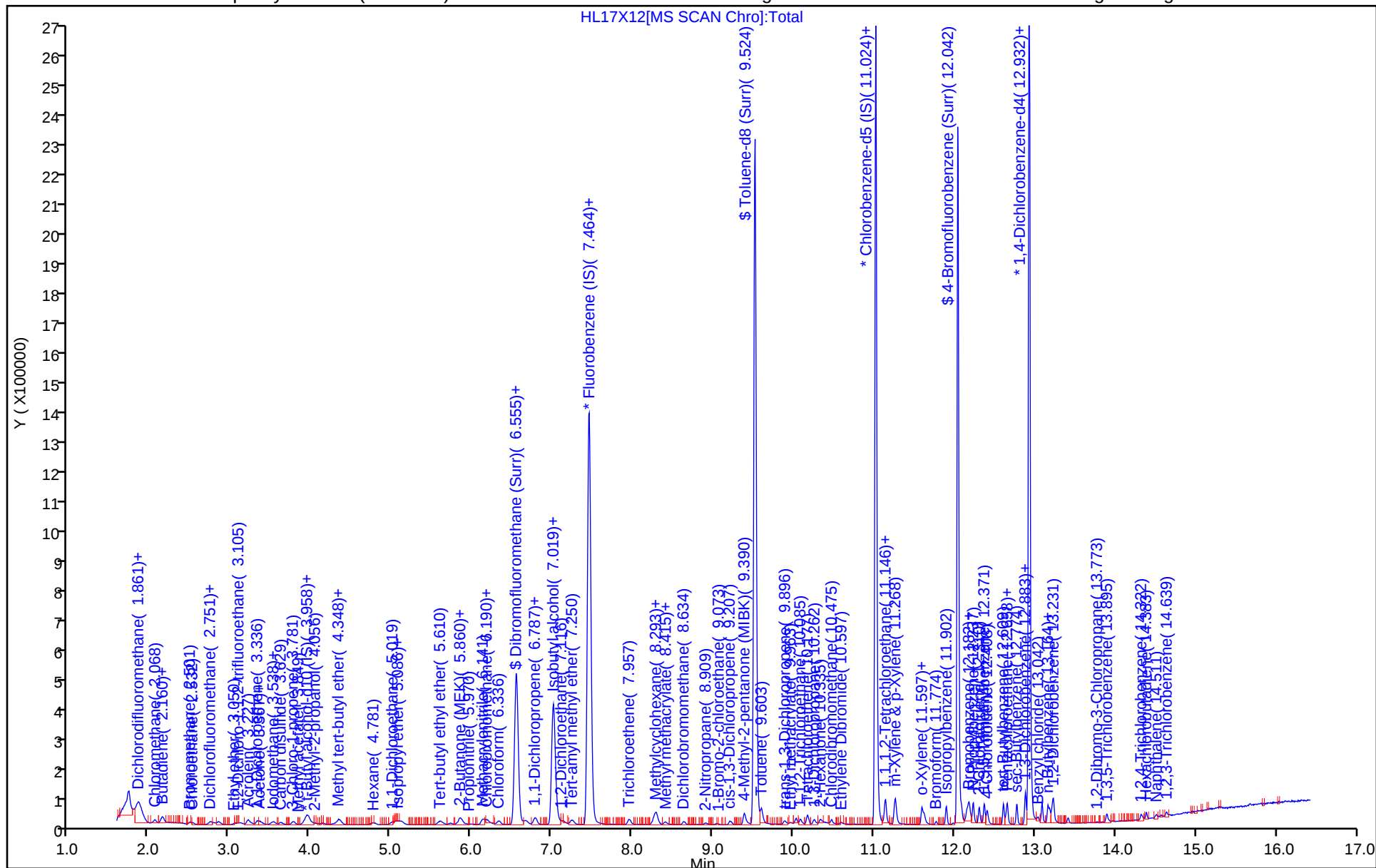
ALS Bottle#: 12

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

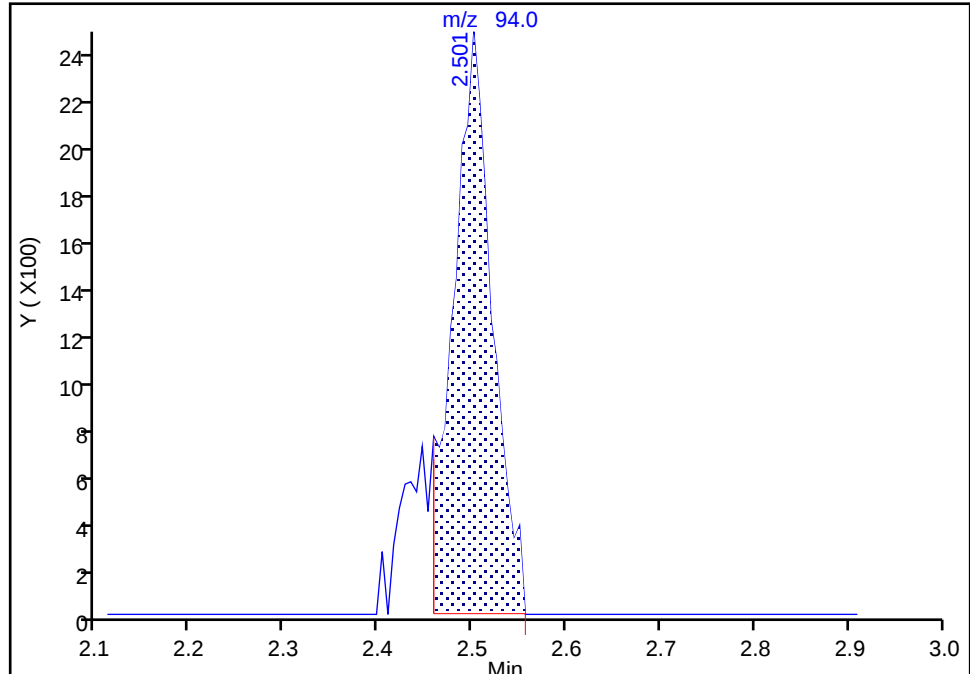
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D
Injection Date: 17-Jul-2024 17:30:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

9 Bromomethane, CAS: 74-83-9

Signal: 1

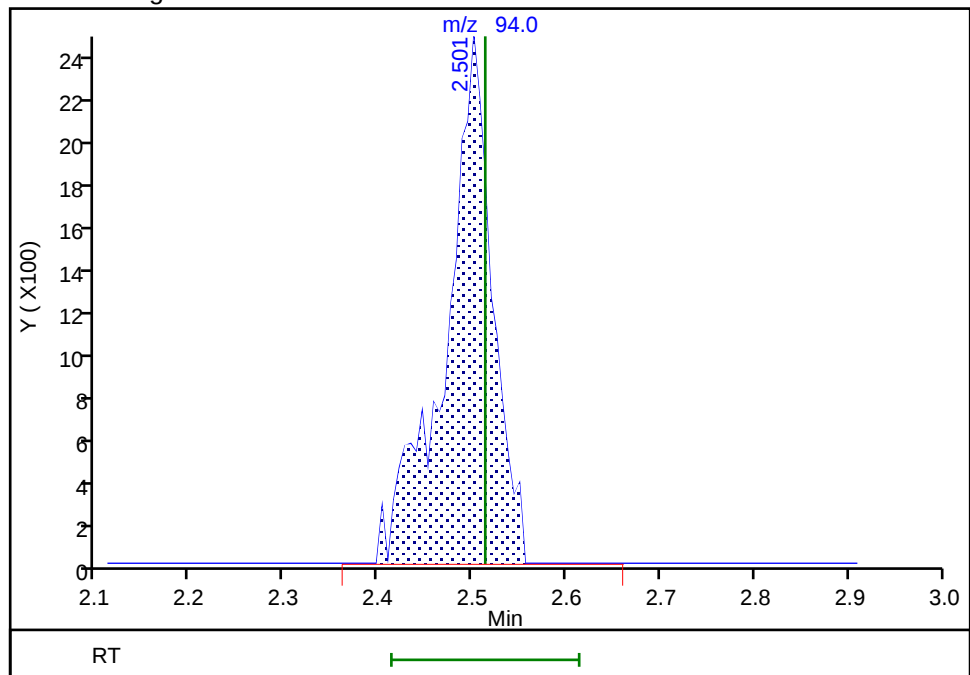
RT: 2.50
Area: 7150
Amount: 0.173728
Amount Units: ug/l

Processing Integration Results



RT: 2.50
Area: 8528
Amount: 0.202371
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:26:47 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D

Injection Date: 17-Jul-2024 17:30:30

Instrument ID: 19094

Lims ID: IC std1 0.2

Client ID:

Operator ID: knk41612

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)

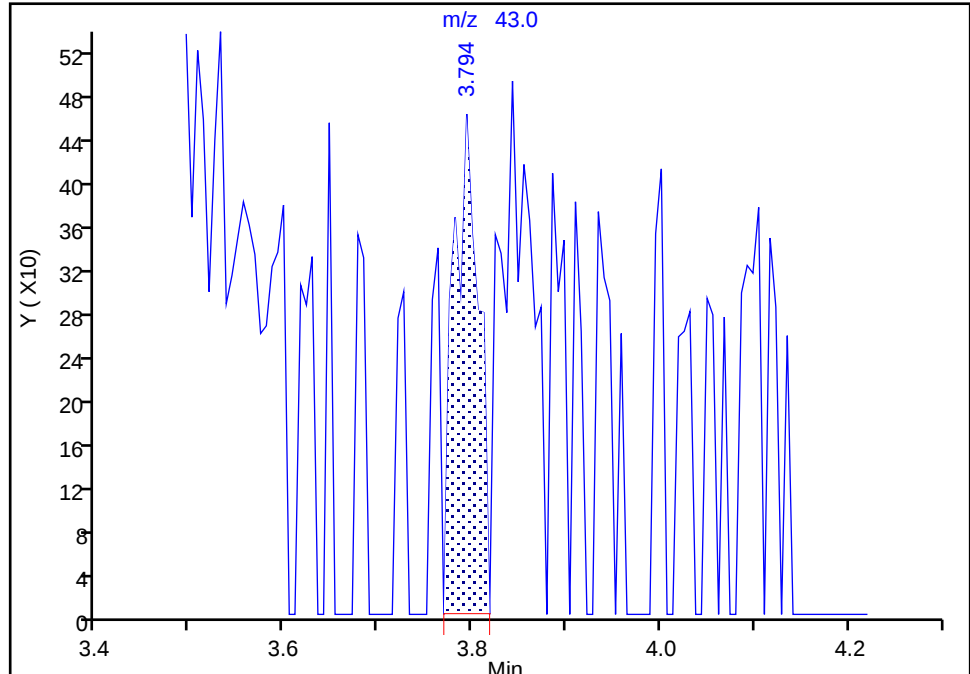
MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

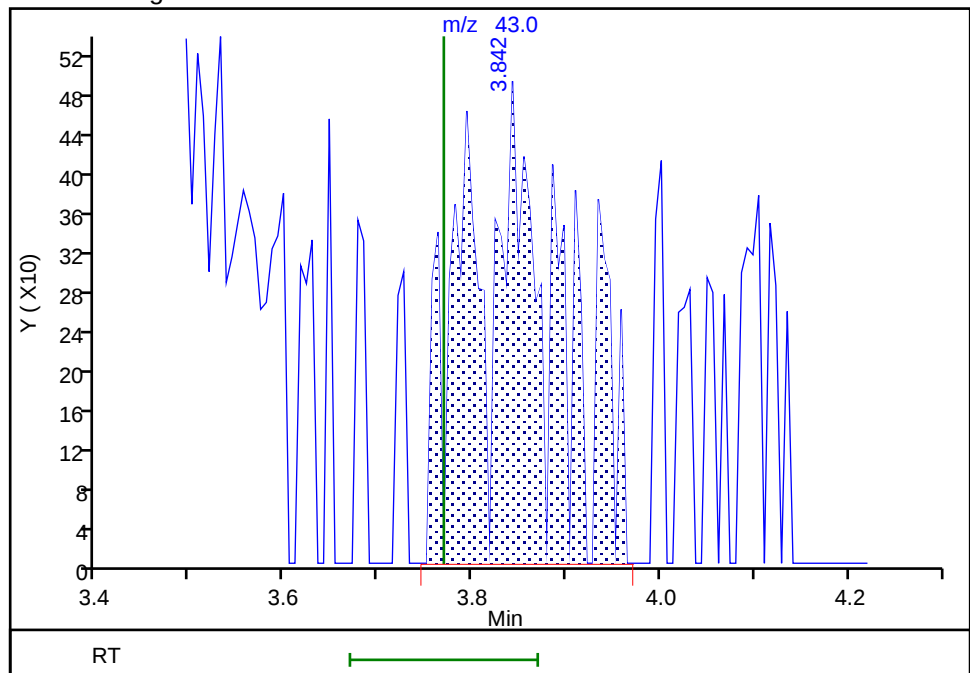
RT: 3.79
Area: 836
Amount: 0.065516
Amount Units: ug/l

Processing Integration Results



RT: 3.84
Area: 3235
Amount: 0.227973
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:27:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

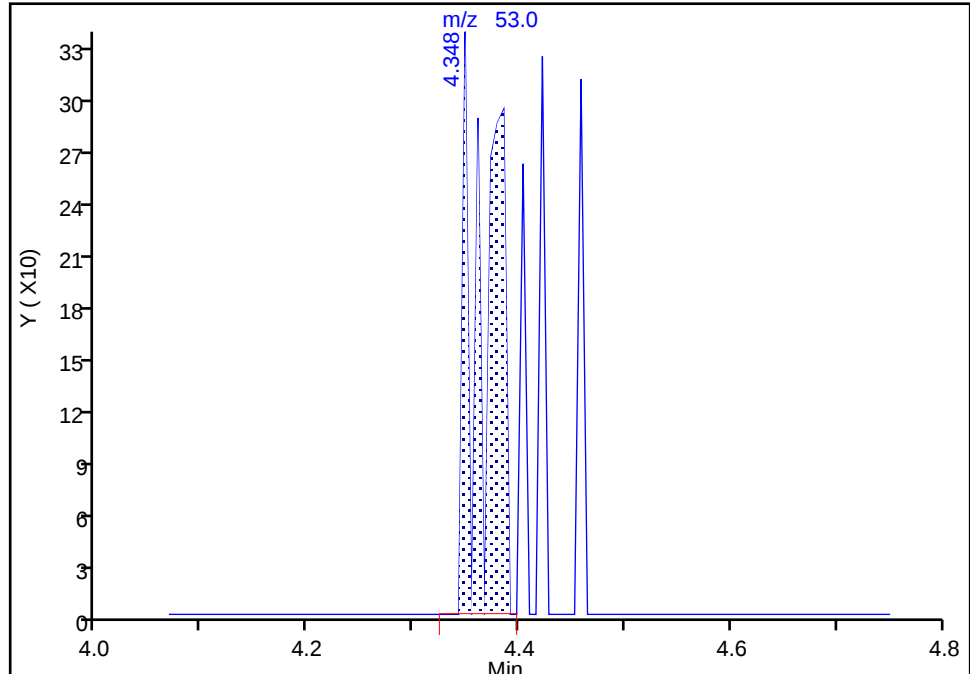
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D
Injection Date: 17-Jul-2024 17:30:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

31 Acrylonitrile, CAS: 107-13-1

Signal: 1

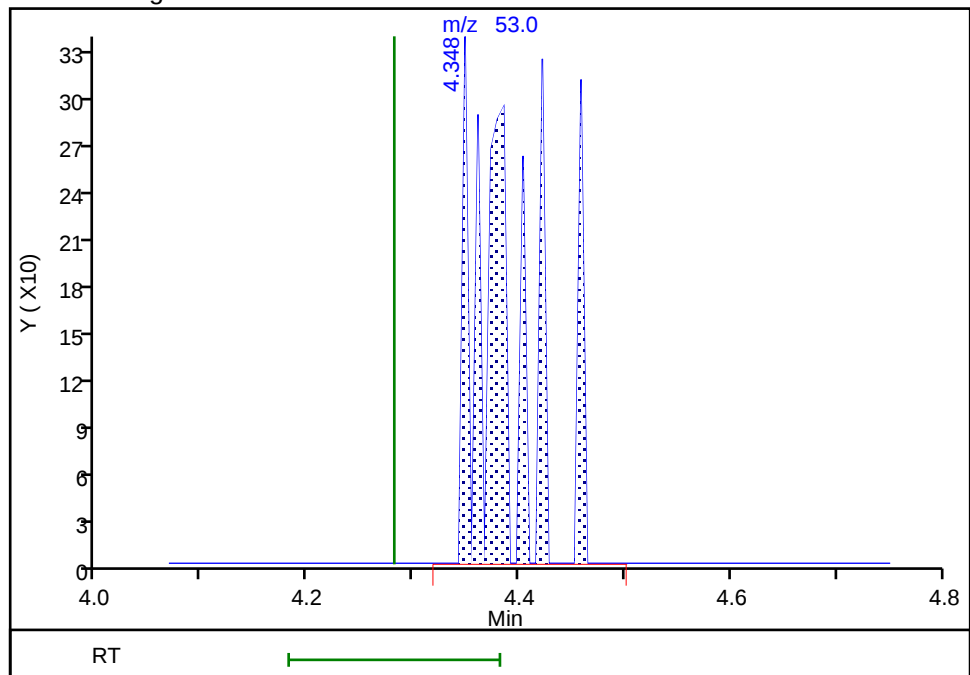
RT: 4.35
Area: 526
Amount: 0.519894
Amount Units: ug/l

Processing Integration Results



RT: 4.35
Area: 847
Amount: 0.119405
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:27:09 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

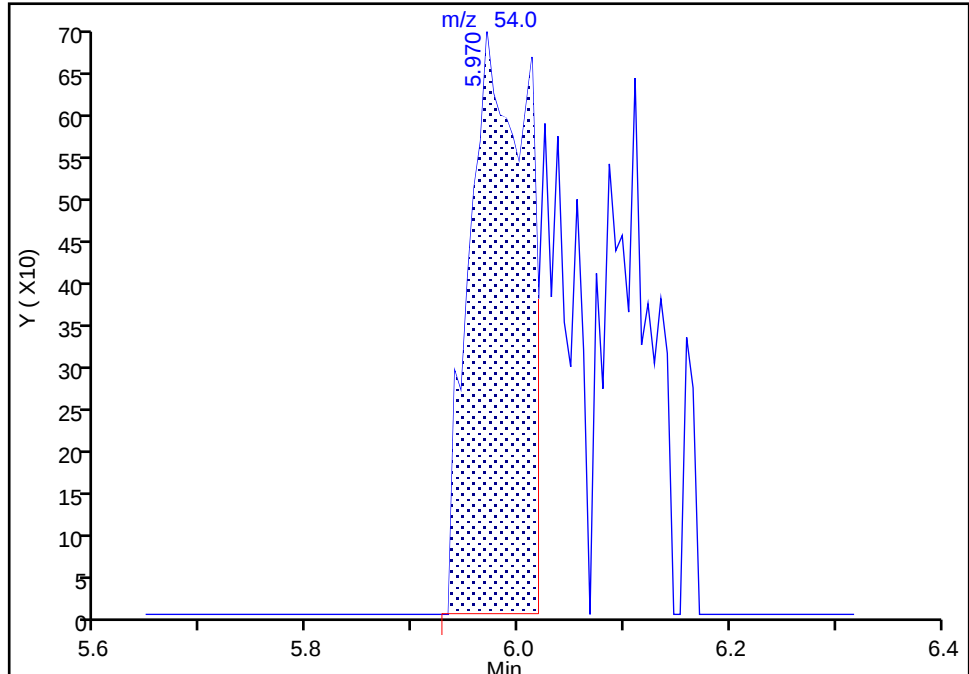
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D
Injection Date: 17-Jul-2024 17:30:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

44 Propionitrile, CAS: 107-12-0

Signal: 1

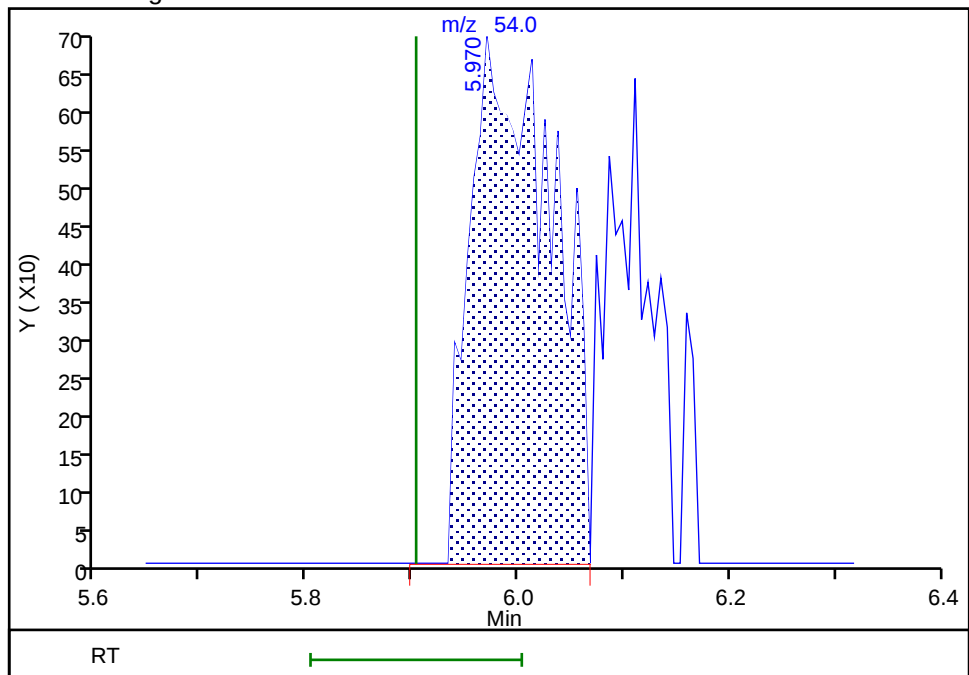
RT: 5.97
Area: 2653
Amount: 5.395871
Amount Units: ug/l

Processing Integration Results



RT: 5.97
Area: 3742
Amount: 5.554378
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:27:19 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

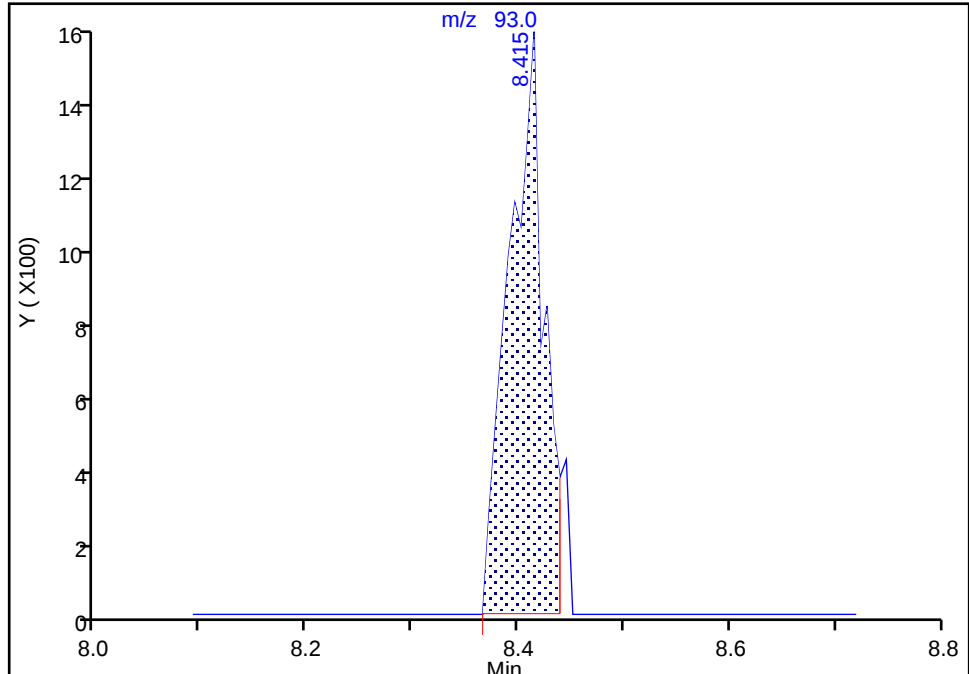
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D
Injection Date: 17-Jul-2024 17:30:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 Dibromomethane, CAS: 74-95-3

Signal: 1

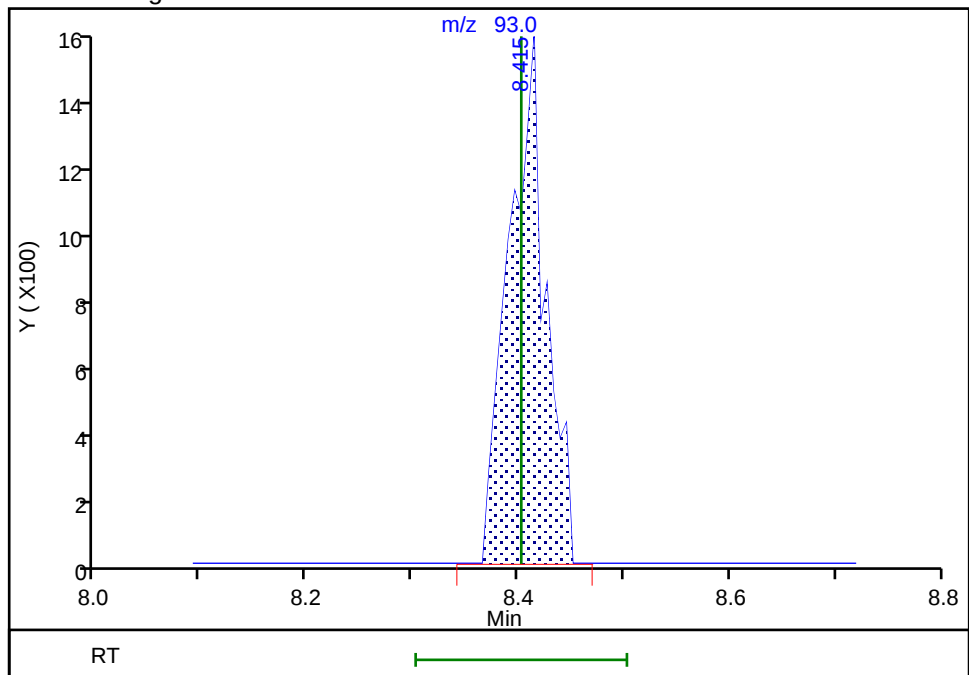
RT: 8.41
Area: 3652
Amount: 0.164259
Amount Units: ug/l

Processing Integration Results



RT: 8.41
Area: 3806
Amount: 0.170343
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 18-Jul-2024 21:02:14 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Other

Eurofins Lancaster Laboratories Environment Testing, LLC

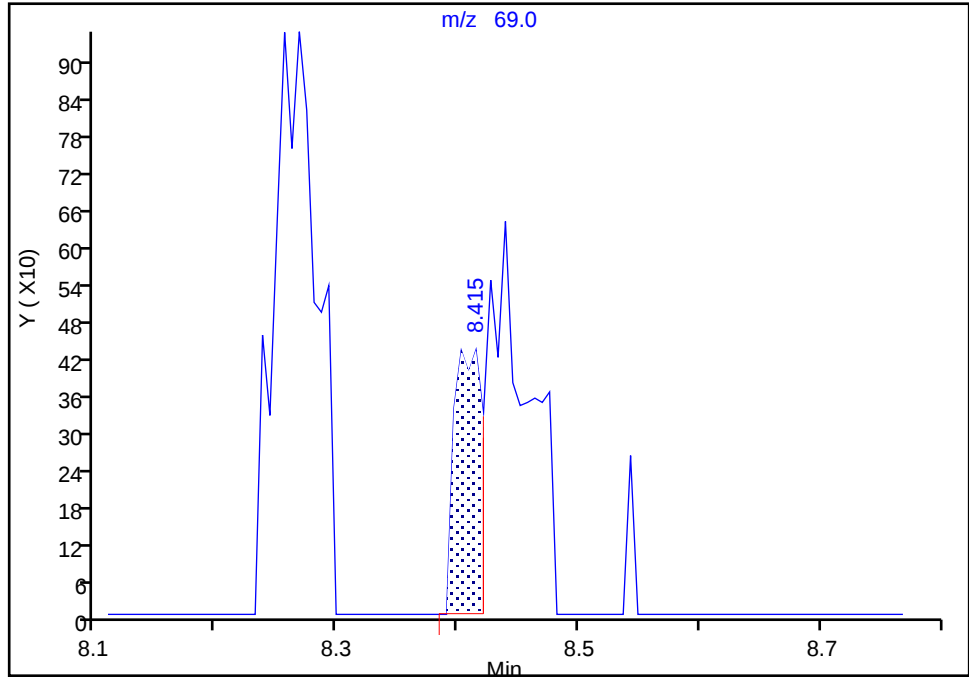
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D
Injection Date: 17-Jul-2024 17:30:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

72 Methyl methacrylate, CAS: 80-62-6

Signal: 1

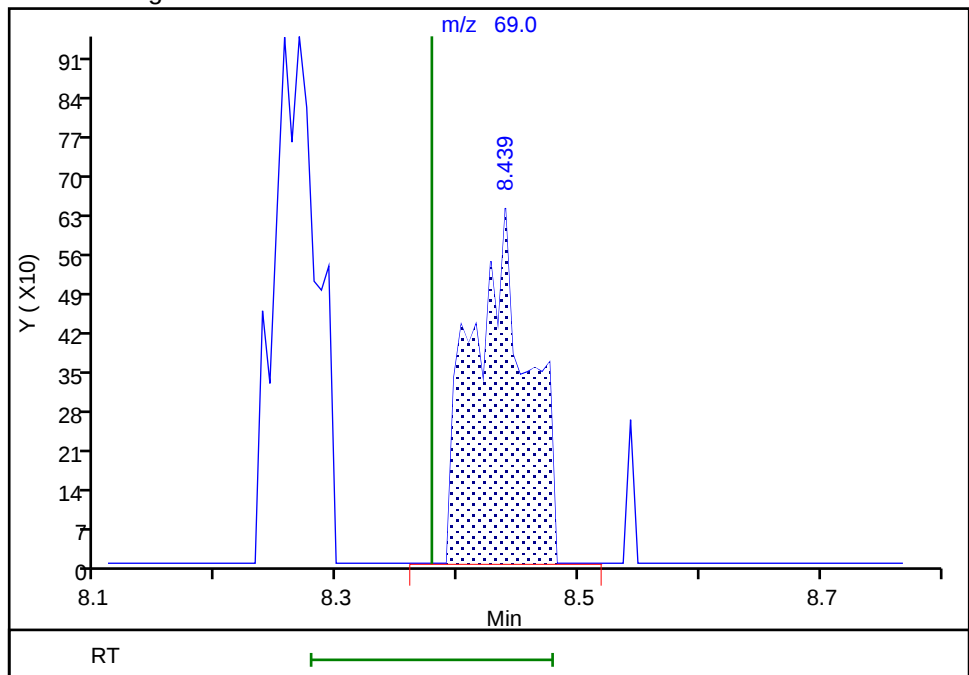
RT: 8.41
Area: 696
Amount: 0.204081
Amount Units: ug/l

Processing Integration Results



RT: 8.44
Area: 2050
Amount: 0.110156
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:27:31 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

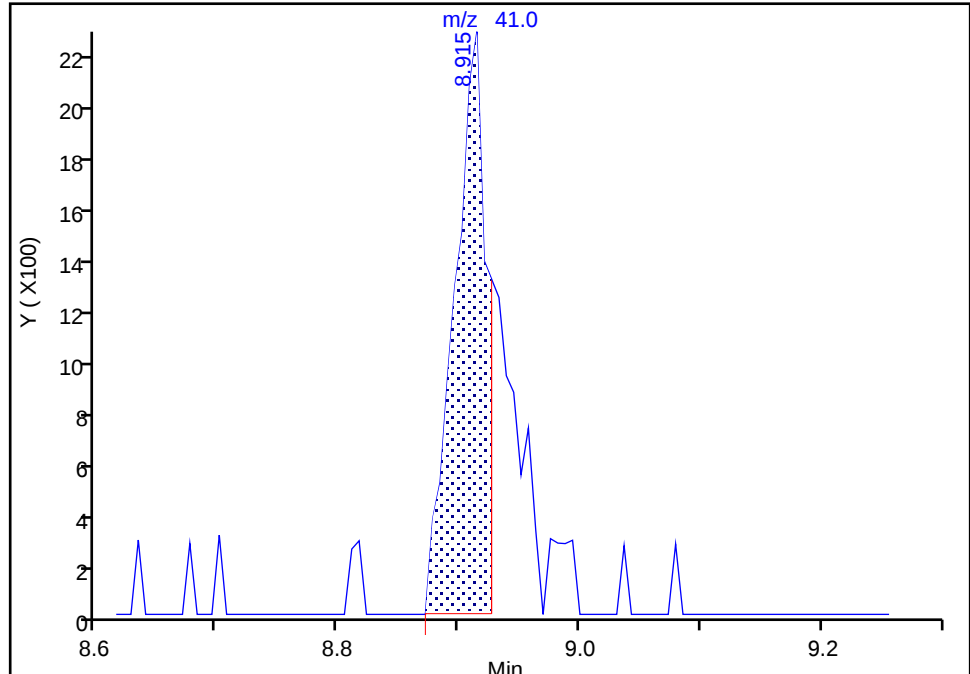
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D
Injection Date: 17-Jul-2024 17:30:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

77 2-Nitropropane, CAS: 79-46-9

Signal: 1

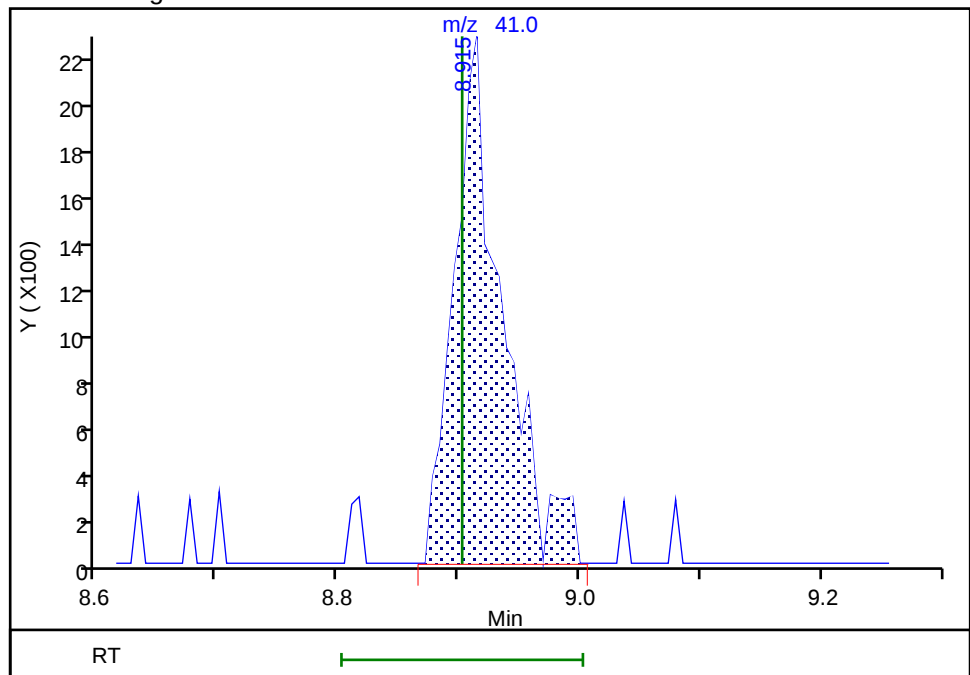
RT: 8.91
Area: 4213
Amount: 0.727283
Amount Units: ug/l

Processing Integration Results



RT: 8.91
Area: 6309
Amount: 1.035583
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:27:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

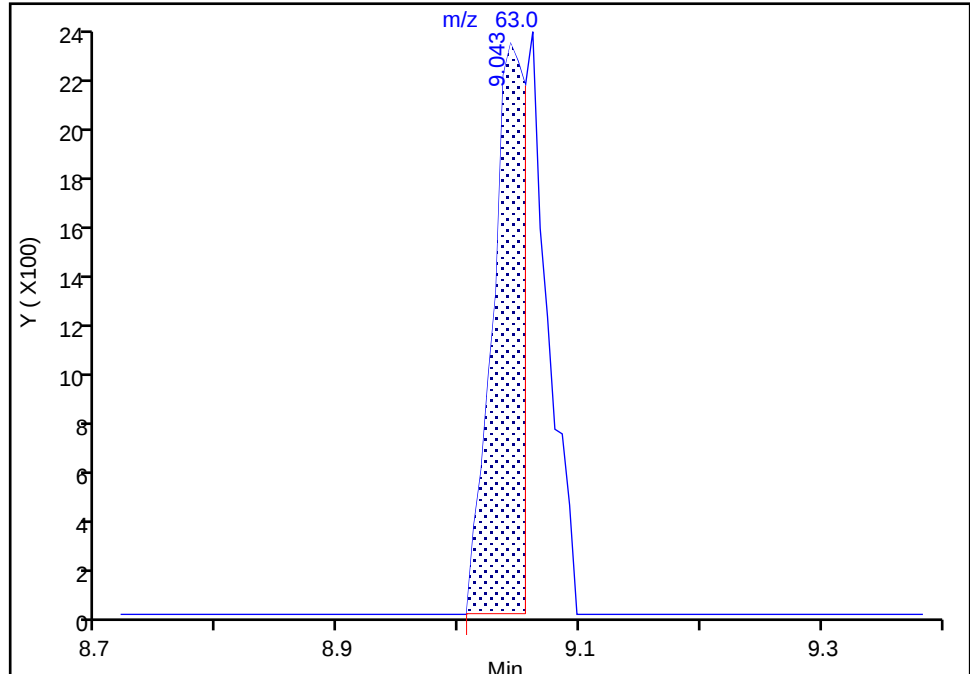
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D
Injection Date: 17-Jul-2024 17:30:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

79 1-Bromo-2-chloroethane, CAS: 107-04-0

Signal: 1

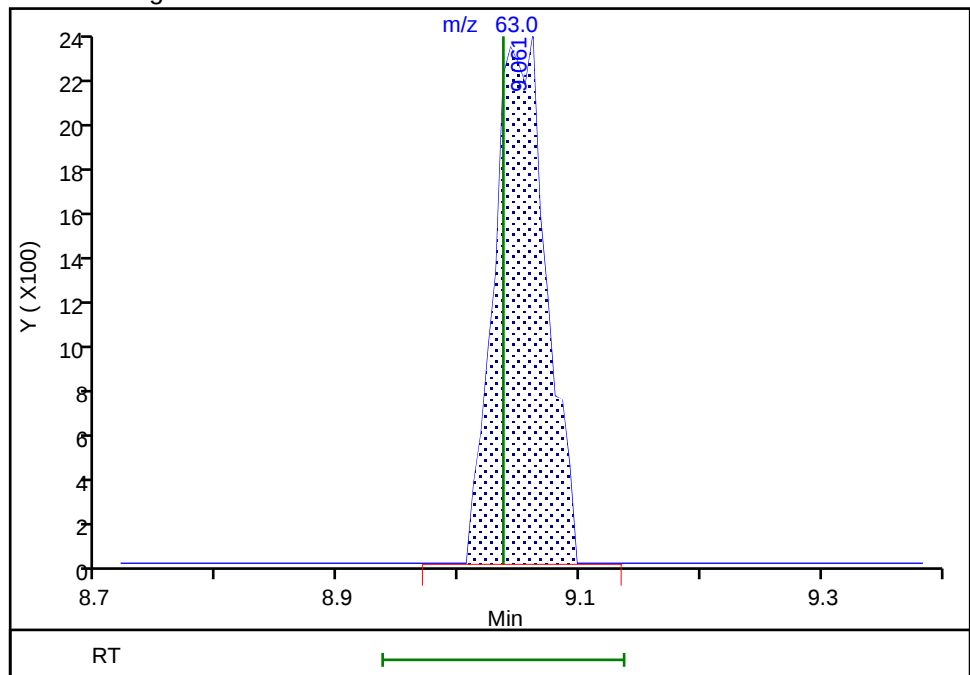
RT: 9.04
Area: 4423
Amount: 0.166689
Amount Units: ug/l

Processing Integration Results



RT: 9.06
Area: 7000
Amount: 0.165523
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:27:41 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

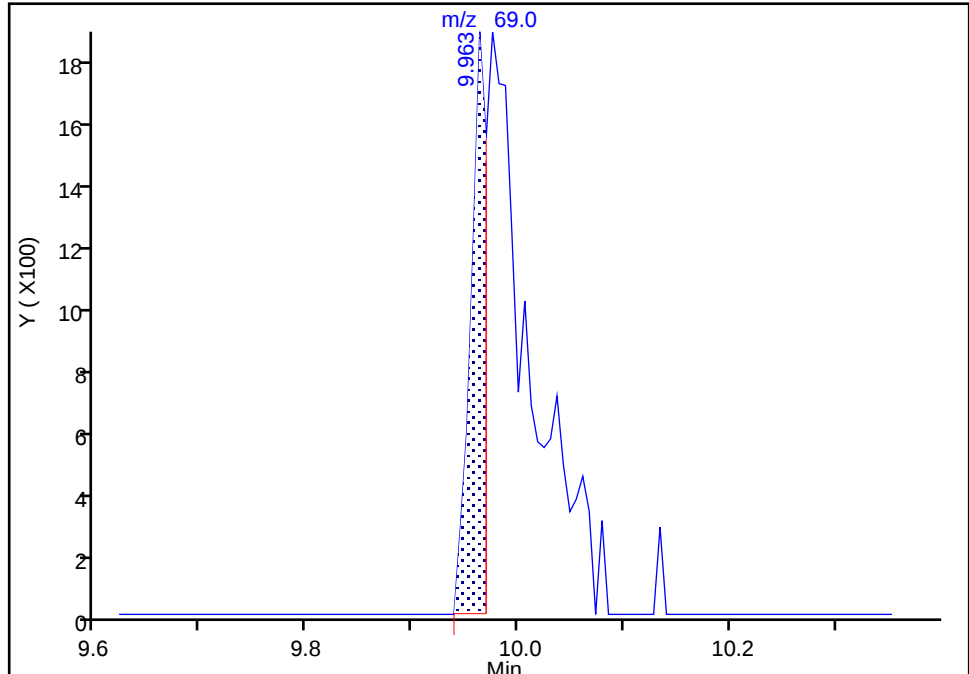
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D
Injection Date: 17-Jul-2024 17:30:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

104 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

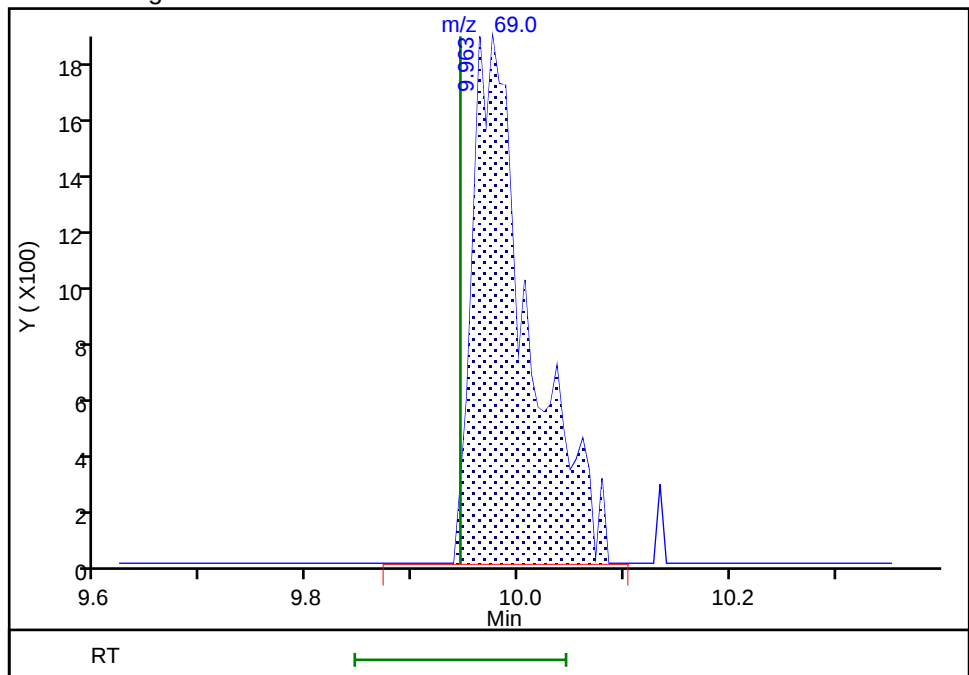
RT: 9.96
Area: 1936
Amount: 0.255030
Amount Units: ug/l

Processing Integration Results



RT: 9.96
Area: 6709
Amount: 0.162290
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:27:51 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

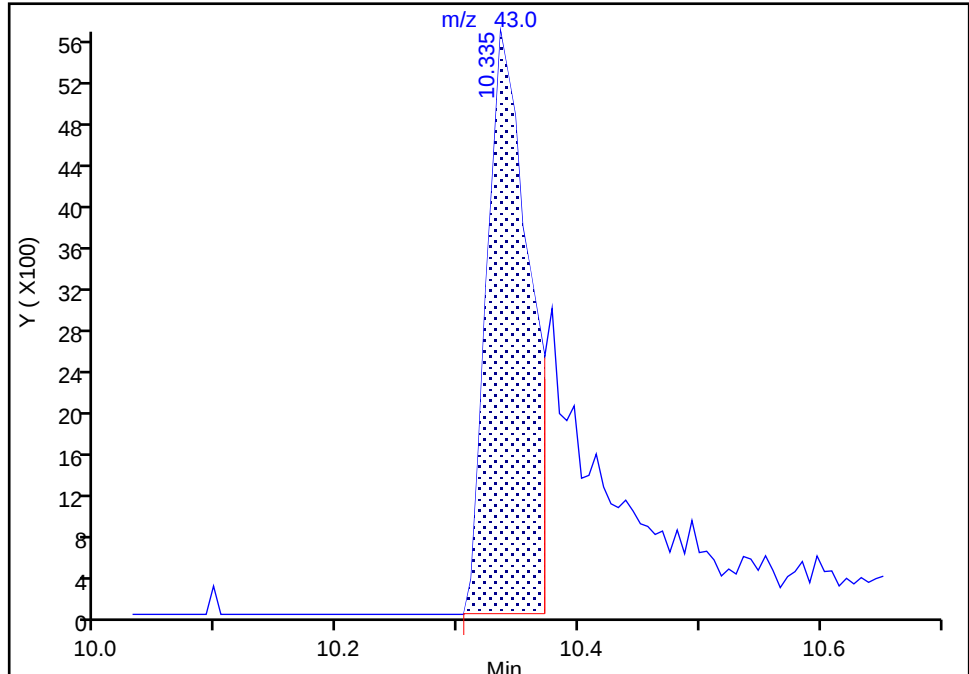
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D
Injection Date: 17-Jul-2024 17:30:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

109 2-Hexanone, CAS: 591-78-6

Signal: 1

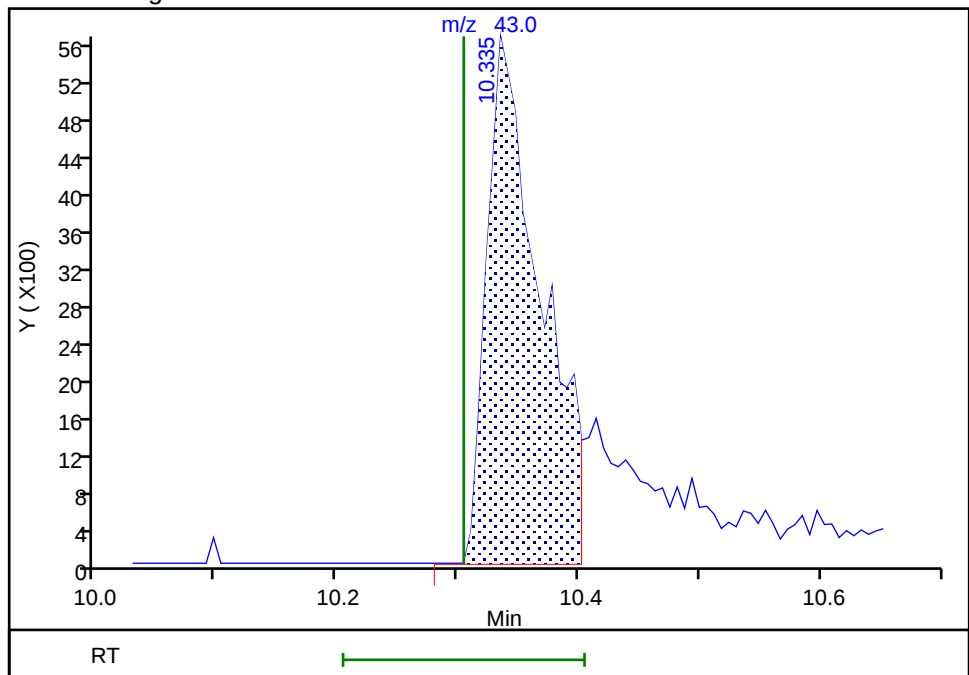
RT: 10.34
Area: 13843
Amount: 2.968670
Amount Units: ug/l

Processing Integration Results



RT: 10.34
Area: 17554
Amount: 1.097769
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 18-Jul-2024 21:48:58 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Other

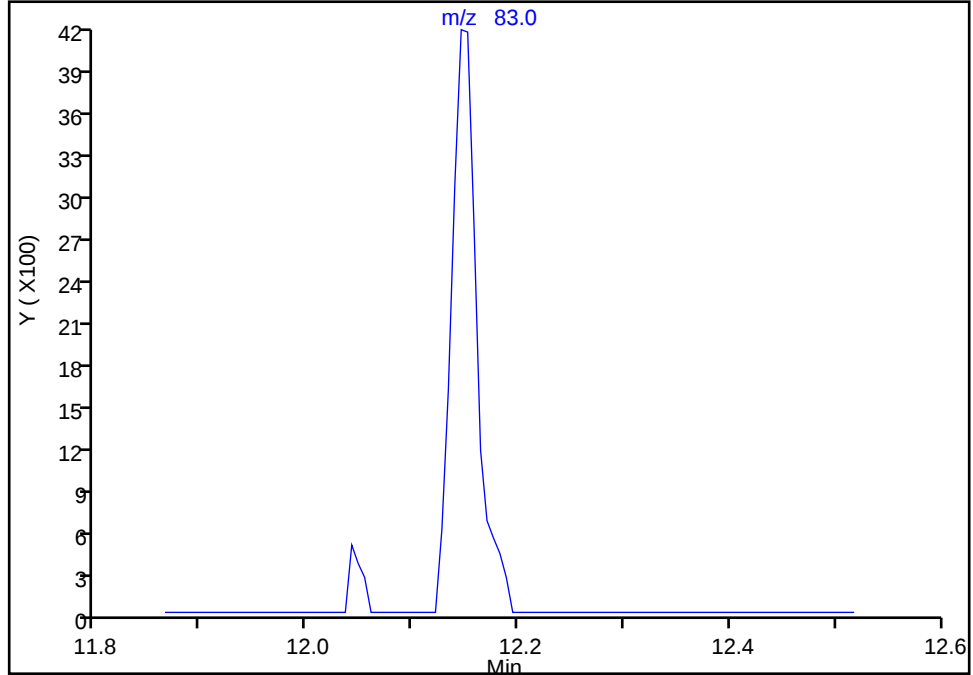
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X12.D
Injection Date: 17-Jul-2024 17:30:30 Instrument ID: 19094
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 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

127 1,1,2,2-Tetrachloroethane, CAS: 79-34-5
Signal: 1

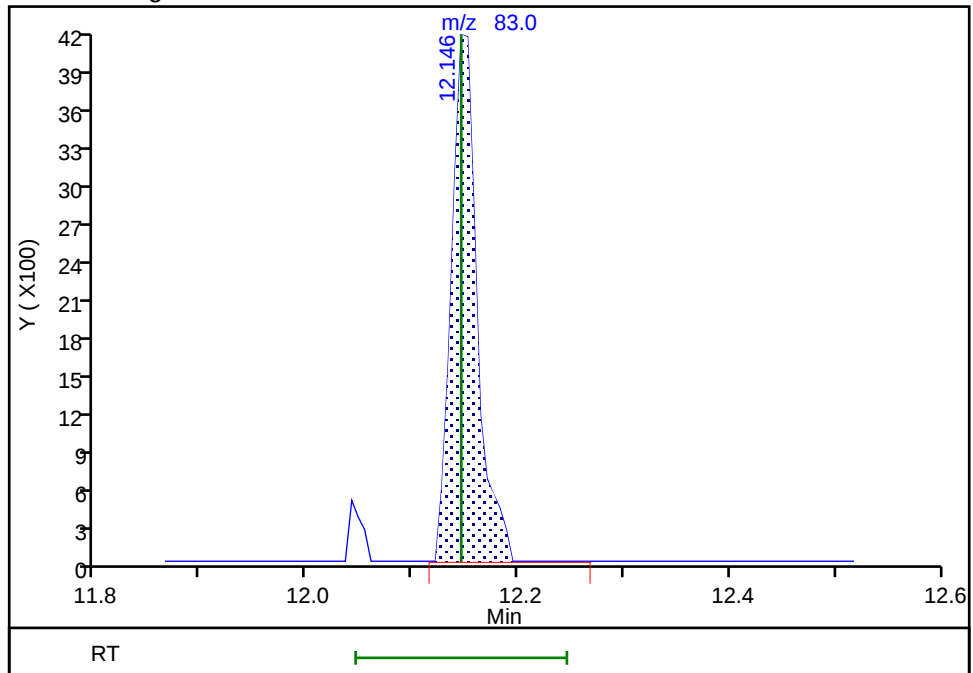
Not Detected
Expected RT: 12.15

Processing Integration Results



RT: 12.15
Area: 7090
Amount: 0.182312
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:26:38 -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\20240717-119602.b\HL17X13.D
 Lims ID: IC std2 0.5
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 17-Jul-2024 17:51:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119602-014
 Misc. Info.: IC std2 0.5
 Operator ID: knk41612 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 18-Jul-2024 22:31:03 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1666

First Level Reviewer: DVW2

Date: 18-Jul-2024 08:26:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.873	1.879	-0.006	51	26885	0.5000	0.5123	
5 Chloromethane	50	2.068	2.074	-0.006	99	32575	0.5000	0.4971	
7 Butadiene	39	2.160	2.166	-0.006	90	25928	0.5000	0.4623	
6 Vinyl chloride	62	2.172	2.178	-0.006	98	29955	0.5000	0.4989	
9 Bromomethane	94	2.501	2.513	-0.012	90	19960	0.5000	0.4744	
10 Chloroethane	64	2.544	2.550	-0.006	71	17413	0.5000	0.4950	
11 Dichlorofluoromethane	67	2.757	2.769	-0.012	97	46614	0.5000	0.4818	
12 Trichlorofluoromethane	101	2.788	2.867	-0.079	92	36023	0.5000	0.4984	
14 Ethyl ether	59	3.050	3.056	-0.006	89	13110	0.4999	0.4811	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.123	3.135	-0.012	87	26460	0.5000	0.4927	
16 Acrolein	56	3.227	3.215	0.013	99	95690	25.1	22.2	
17 1,1-Dichloroethene	96	3.343	3.349	-0.006	98	18076	0.5000	0.4855	
19 Acetone	43	3.391	3.367	0.024	90	23832	5.00	4.41	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.373	3.391	-0.018	91	17239	0.5000	0.4709	
21 Iodomethane	142	3.525	3.532	-0.007	99	35150	0.5000	0.4756	
22 Ethyl bromide	108	3.556	3.556	0.000	98	16513	0.5009	0.4990	
23 Carbon disulfide	76	3.641	3.635	0.006	99	52314	0.5000	0.4932	
24 Methyl acetate	43	3.806	3.769	0.037	24	8380	0.5000	0.5723	M
26 3-Chloro-1-propene	41	3.788	3.788	0.000	91	30519	0.5000	0.4712	
27 Methylene Chloride	84	3.964	3.964	0.000	86	22554	0.5000	0.4866	
* 28 t-Butyl alcohol-d10 (IS)	65	3.958	3.983	-0.025	84	101542	50.0	50.0	
29 2-Methyl-2-propanol	59	4.068	4.080	-0.012	67	14295	10.0	9.62	
31 Acrylonitrile	53	4.367	4.281	0.086	23	5722	1.25	0.7817	M
32 Methyl tert-butyl ether	73	4.342	4.348	-0.006	95	49418	0.5000	0.4833	
33 trans-1,2-Dichloroethene	96	4.355	4.361	-0.006	98	20498	0.5000	0.4710	
34 Hexane	57	4.769	4.787	-0.018	94	24651	0.5000	0.4800	
36 1,1-Dichloroethane	63	5.013	5.013	0.000	95	39649	0.5000	0.4767	
37 Isopropyl ether	45	5.074	5.074	0.000	94	65281	0.5000	0.4759	
38 2-Chloro-1,3-butadiene	53	5.135	5.129	0.006	91	29250	0.5000	0.4450	
40 Tert-butyl ethyl ether	59	5.604	5.616	-0.012	98	59901	0.5000	0.4697	

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	5.860	5.824	0.036	73	38427	5.00	4.31	
42 cis-1,2-Dichloroethene	96	5.854	5.854	0.000	83	23403	0.5000	0.4722	
43 2,2-Dichloropropane	77	5.867	5.866	0.000	67	33367	0.5000	0.4833	
44 Propionitrile	54	5.952	5.903	0.049	98	14411	10.0	9.33	
47 Methacrylonitrile	67	6.135	6.122	0.013	91	45314	5.00	4.43	
S 46 1,2-Dichloroethene, Total	100				0			0.9432	
48 Chlorobromomethane	128	6.196	6.190	0.006	93	9734	0.5000	0.4648	
49 Tetrahydrofuran	71	6.220	6.208	0.012	78	5763	2.50	2.19	
50 Chloroform	83	6.336	6.342	-0.006	93	39062	0.5000	0.4732	
\$ 52 Dibromofluoromethane (Surr)	113	6.561	6.561	0.000	94	503731	10.0	9.97	
53 1,1,1-Trichloroethane	97	6.568	6.574	-0.006	48	33285	0.5000	0.4728	
54 Cyclohexane	56	6.671	6.677	-0.006	91	34562	0.5000	0.4956	
56 Carbon tetrachloride	117	6.781	6.787	-0.006	91	28843	0.5000	0.4702	
55 1,1-Dichloropropene	75	6.793	6.793	0.000	94	29310	0.5000	0.4678	
57 Isobutyl alcohol	41	6.964	6.945	0.019	90	11688	25.0	24.5	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.025	-0.006	81	104077	10.0	10.1	
59 Benzene	78	7.055	7.055	0.000	95	88920	0.5000	0.4681	
60 1,2-Dichloroethane	62	7.122	7.128	-0.006	96	24189	0.5000	0.4845	
63 Tert-amyl methyl ether	73	7.250	7.256	-0.006	98	52534	0.5000	0.4667	
* 64 Fluorobenzene (IS)	96	7.464	7.470	-0.006	99	2062328	10.0	10.0	
65 n-Heptane	43	7.488	7.482	0.006	92	26119	0.5000	0.4978	
67 n-Butanol	56	7.921	7.848	0.073	22	7780	43.8	56.2	M
68 Trichloroethene	95	7.958	7.957	0.001	98	24013	0.5000	0.4800	
69 Methylcyclohexane	83	8.268	8.268	0.000	90	34255	0.5000	0.4833	
70 1,2-Dichloropropane	63	8.293	8.287	0.006	91	22332	0.5000	0.4654	
71 2-ethoxy-2-methyl butane	87	8.305	8.305	0.000	94	32429	0.5000	0.4602	
72 Methyl methacrylate	69	8.415	8.378	0.037	70	6527	0.5000	0.3399	
73 1,4-Dioxane	88	8.396	8.390	0.006	28	589	25.0	30.3	M
74 Dibromomethane	93	8.403	8.403	0.000	97	10776	0.5000	0.4831	
76 Dichlorobromomethane	83	8.640	8.634	0.006	99	27688	0.5000	0.4773	
77 2-Nitropropane	41	8.909	8.902	0.007	97	14486	2.50	2.30	
79 1-Bromo-2-chloroethane	63	9.043	9.037	0.006	97	20534	0.5000	0.4863	
80 cis-1,3-Dichloropropene	75	9.213	9.201	0.012	95	31561	0.5000	0.4468	
82 4-Methyl-2-pentanone (MIBK)	43	9.390	9.384	0.006	97	111439	5.00	4.47	
\$ 83 Toluene-d8 (Surr)	98	9.524	9.524	0.000	93	2010119	10.0	9.96	
84 Toluene	92	9.610	9.604	0.006	97	56769	0.5000	0.4629	
85 trans-1,3-Dichloropropene	75	9.890	9.872	0.018	93	25343	0.5000	0.4431	
104 Ethyl methacrylate	69	9.957	9.945	0.012	91	16157	0.5000	0.3907	
S 105 1,3-Dichloropropene, Total	100				0			0.8898	
106 1,1,2-Trichloroethane	97	10.085	10.085	0.000	90	15332	0.5000	0.4703	
107 Tetrachloroethene	166	10.177	10.177	0.000	98	26882	0.5000	0.4717	
108 1,3-Dichloropropane	76	10.256	10.250	0.006	91	25437	0.5000	0.4590	
109 2-Hexanone	43	10.323	10.305	0.018	98	62545	5.00	3.79	
111 Chlorodibromomethane	129	10.475	10.469	0.006	89	18118	0.5000	0.4501	
112 Ethylene Dibromide	107	10.591	10.585	0.006	99	13881	0.5000	0.4580	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	88	1551422	10.0	10.0	
114 1-Chlorohexane	91	11.042	11.036	0.006	90	33028	0.5000	0.4828	
115 Chlorobenzene	112	11.055	11.054	0.000	97	62292	0.5000	0.4624	
116 1,1,1,2-Tetrachloroethane	131	11.134	11.134	0.000	95	21272	0.5000	0.4516	
117 Ethylbenzene	91	11.146	11.140	0.006	99	111205	0.5000	0.4674	
S 118 Xylenes, Total	106				0			1.40	
119 m-Xylene & p-Xylene	106	11.262	11.262	0.000	100	83022	1.00	0.9188	

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	11.597	11.591	0.006	96	42571	0.5000	0.4775	
121 Styrene	104	11.615	11.609	0.006	95	60431	0.5000	0.4373	
122 Bromoform	173	11.768	11.768	0.000	93	11036	0.5000	0.4367	
123 Isopropylbenzene	105	11.896	11.896	0.000	96	98516	0.5000	0.4581	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	92	751834	10.0	9.98	
127 1,1,2,2-Tetrachloroethane	83	12.146	12.146	0.000	93	18015	0.5000	0.4635	
128 Bromobenzene	156	12.158	12.158	0.000	95	26744	0.5000	0.4728	
129 trans-1,4-Dichloro-2-butene	53	12.176	12.170	0.006	93	44616	5.00	4.46	
130 1,2,3-Trichloropropane	110	12.195	12.188	0.007	79	4234	0.5000	0.4208	
131 N-Propylbenzene	91	12.231	12.231	0.000	99	124947	0.5000	0.4621	
132 2-Chlorotoluene	126	12.310	12.304	0.006	97	25865	0.5000	0.4670	
133 1,3,5-Trimethylbenzene	105	12.371	12.365	0.006	94	86372	0.5000	0.4543	
134 4-Chlorotoluene	126	12.408	12.396	0.012	96	25919	0.5000	0.4624	
135 tert-Butylbenzene	134	12.609	12.609	0.000	93	19782	0.5000	0.4654	
136 Pentachloroethane	167	12.646	12.640	0.006	81	13457	0.5000	0.4546	
137 1,2,4-Trimethylbenzene	105	12.658	12.652	0.006	97	86299	0.5000	0.4535	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	108808	0.5000	0.4634	
139 1,3-Dichlorobenzene	146	12.877	12.871	0.006	98	48221	0.5000	0.4513	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	90589	0.5000	0.4472	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	95	858934	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.950	12.950	0.000	95	52746	0.5000	0.4774	
143 1,2,3-Trimethylbenzene	120	12.957	12.957	0.000	94	40918	0.5000	0.4752	
144 Benzyl chloride	126	13.030	13.024	0.006	99	6041	0.5000	0.4045	
145 p-Diethylbenzene	119	13.158	13.158	0.000	95	53048	0.5000	0.4488	
146 n-Butylbenzene	92	13.182	13.176	0.006	97	38611	0.5000	0.4169	M
147 1,2-Dichlorobenzene	146	13.213	13.206	0.007	98	46477	0.5000	0.4757	
149 1,2-Dibromo-3-Chloropropane	155	13.773	13.755	0.018	80	1908	0.5000	0.3682	
150 1,3,5-Trichlorobenzene	180	13.889	13.877	0.012	97	33284	0.5000	0.4557	
151 1,2,4-Trichlorobenzene	180	14.310	14.304	0.006	95	24976	0.5000	0.4375	
152 Hexachlorobutadiene	225	14.389	14.383	0.006	95	10248	0.5000	0.4755	
153 Naphthalene	128	14.493	14.481	0.012	97	36332	0.5000	0.3791	
154 1,2,3-Trichlorobenzene	180	14.633	14.621	0.012	95	18601	0.5000	0.4047	
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_00137

Amount Added: 2.00

Units: uL

MSV_LL_GAS826_00220

Amount Added: 2.00

Units: uL

MSV_LL_#2_826_00144

Amount Added: 2.00

Units: uL

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X13.D

Injection Date: 17-Jul-2024 17:51:30

Instrument ID: 19094

Operator ID: knk41612

Lims ID: IC std2 0.5

Worklist Smp#: 14

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

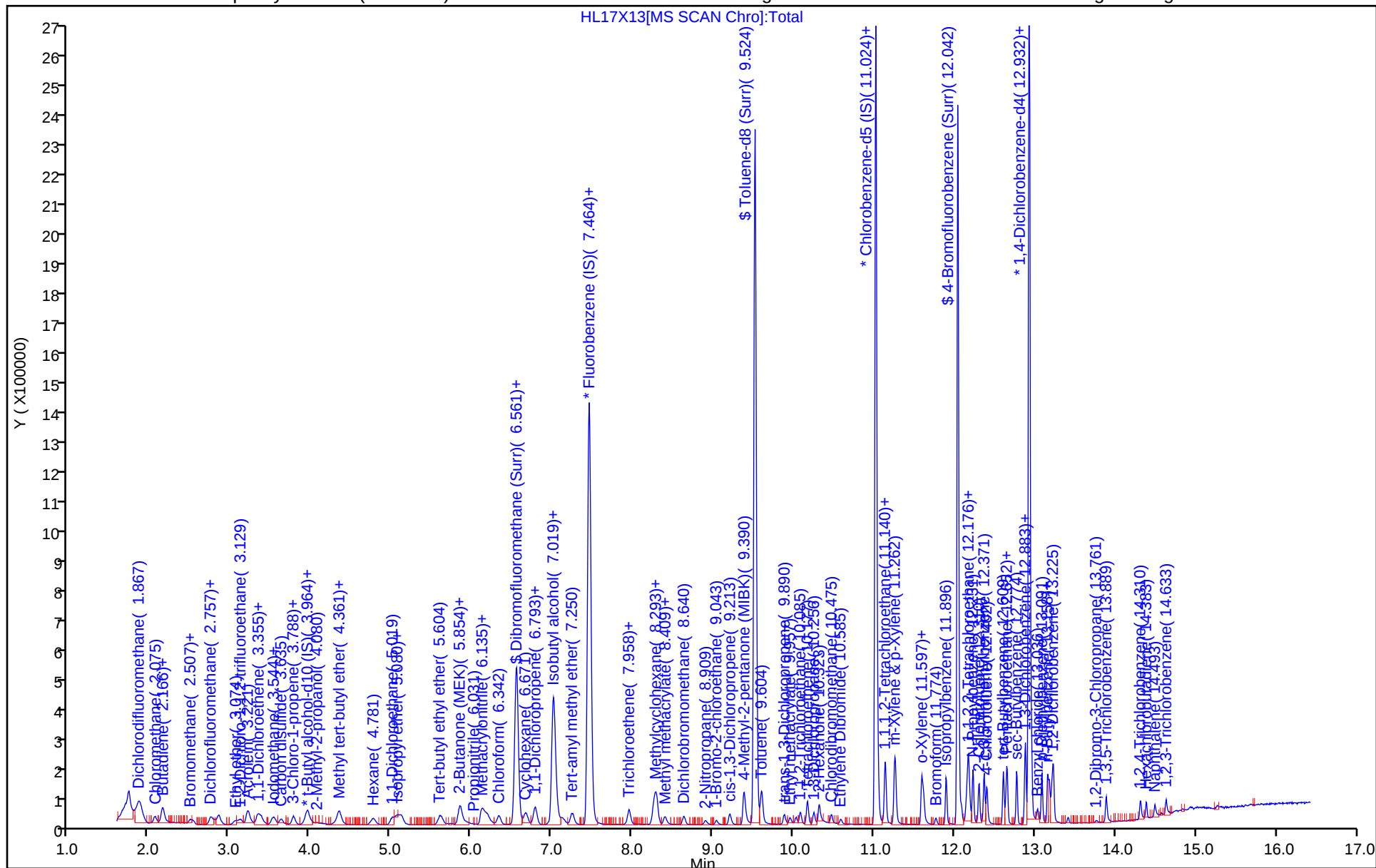
ALS Bottle#: 13

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

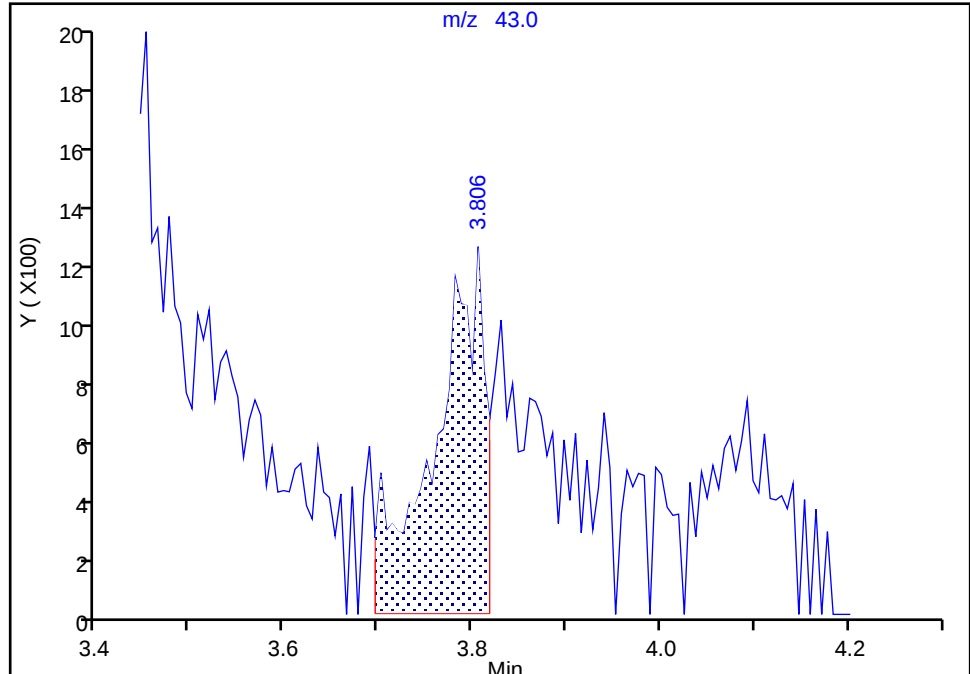
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X13.D
Injection Date: 17-Jul-2024 17:51:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

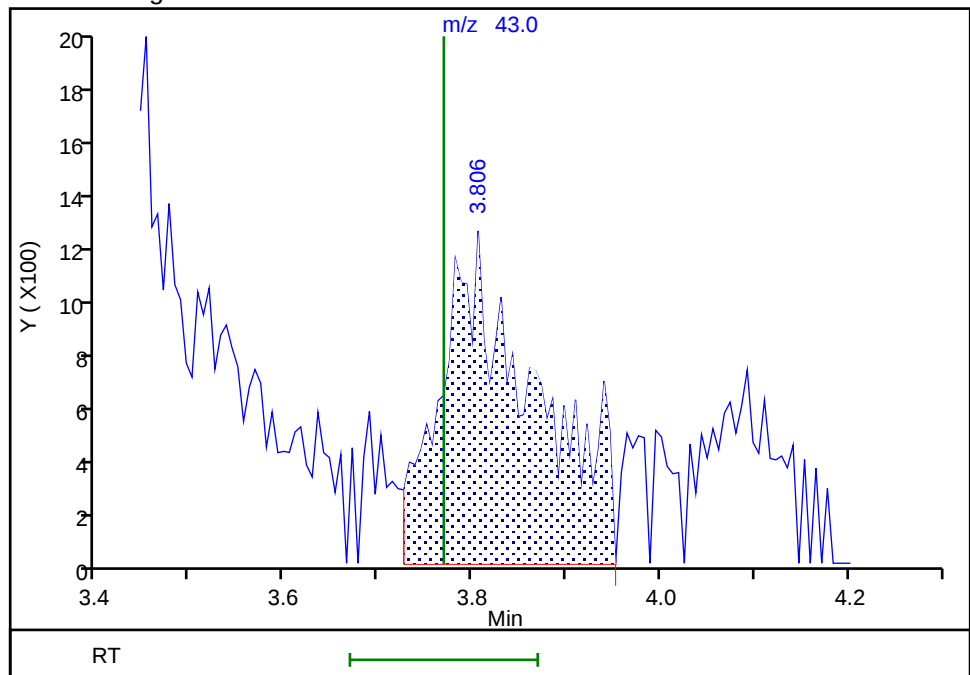
RT: 3.81
Area: 4578
Amount: 0.456145
Amount Units: ug/l

Processing Integration Results



RT: 3.81
Area: 8380
Amount: 0.572302
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:24:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

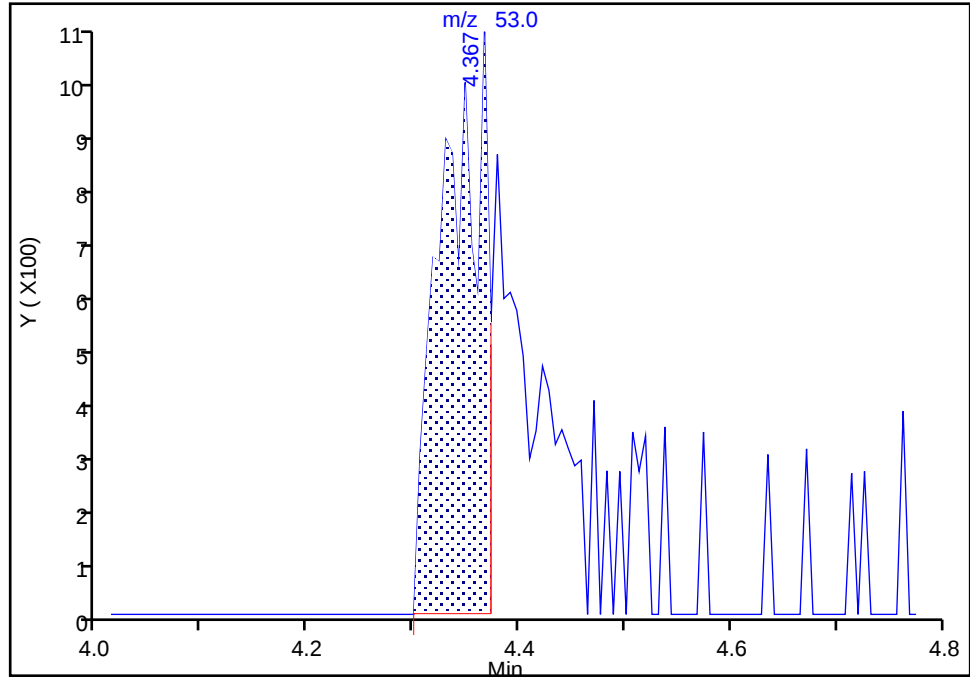
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X13.D
Injection Date: 17-Jul-2024 17:51:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

31 Acrylonitrile, CAS: 107-13-1

Signal: 1

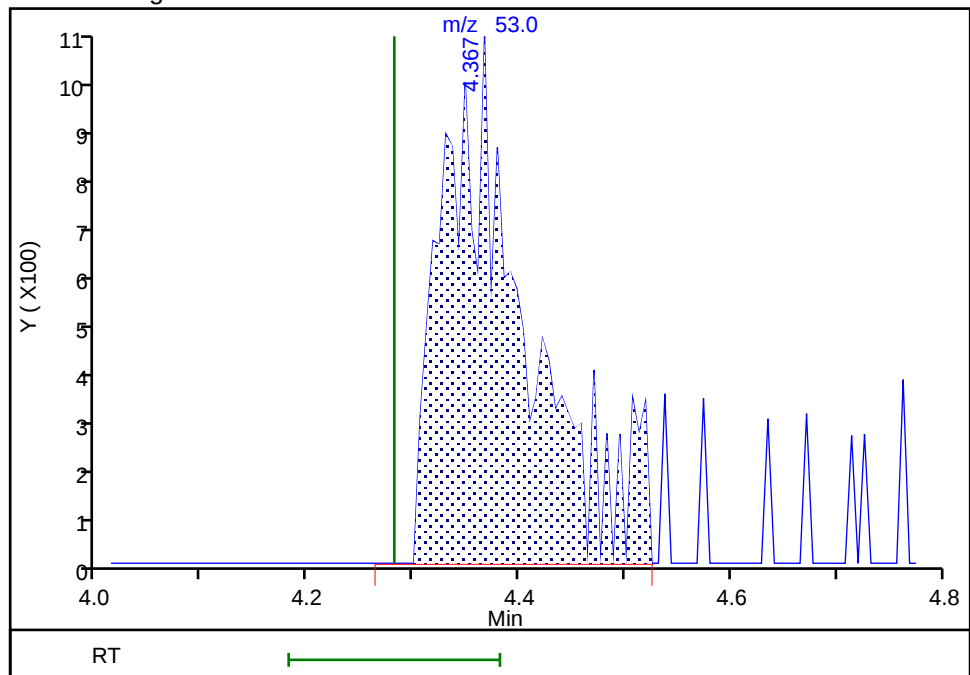
RT: 4.37
Area: 2928
Amount: 0.962641
Amount Units: ug/l

Processing Integration Results



RT: 4.37
Area: 5722
Amount: 0.781731
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:24:58 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

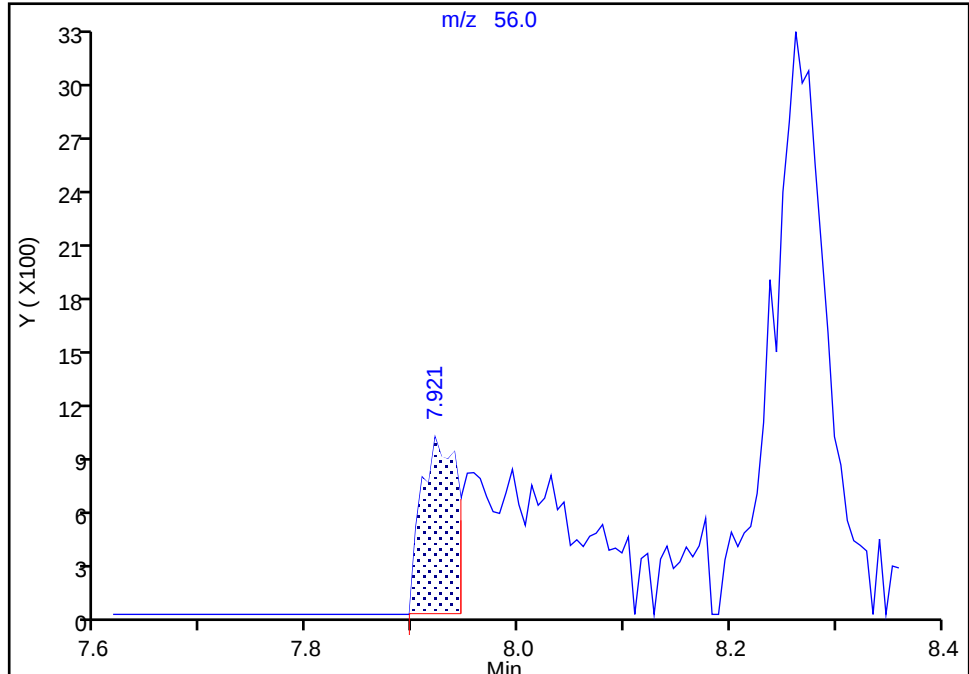
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X13.D
Injection Date: 17-Jul-2024 17:51:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

67 n-Butanol, CAS: 71-36-3

Signal: 1

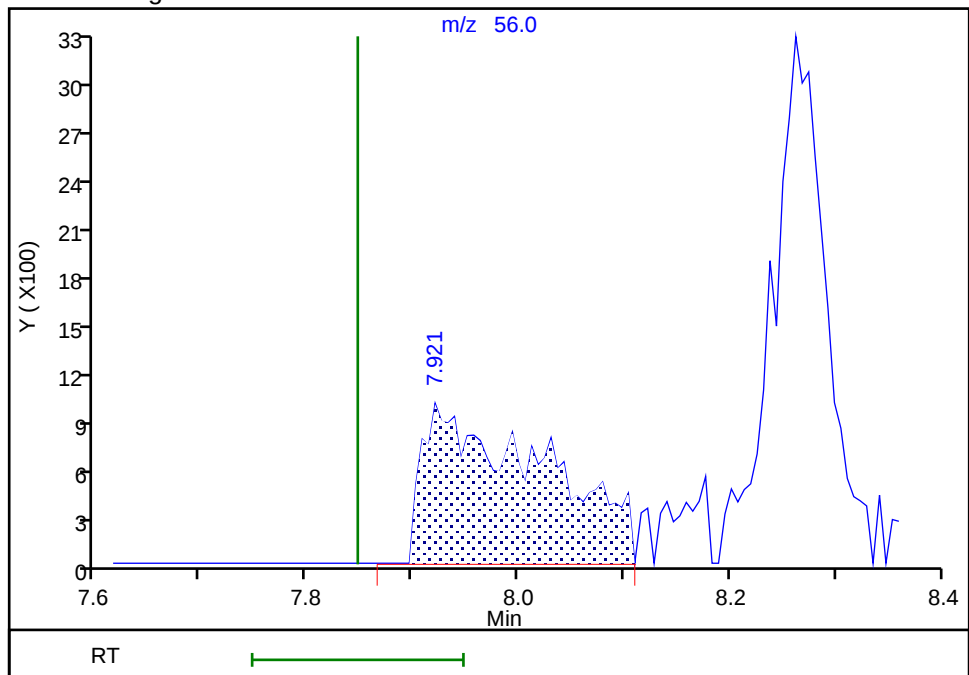
RT: 7.92
Area: 2317
Amount: 47.208488
Amount Units: ug/l

Processing Integration Results



RT: 7.92
Area: 7780
Amount: 56.154868
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:25:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

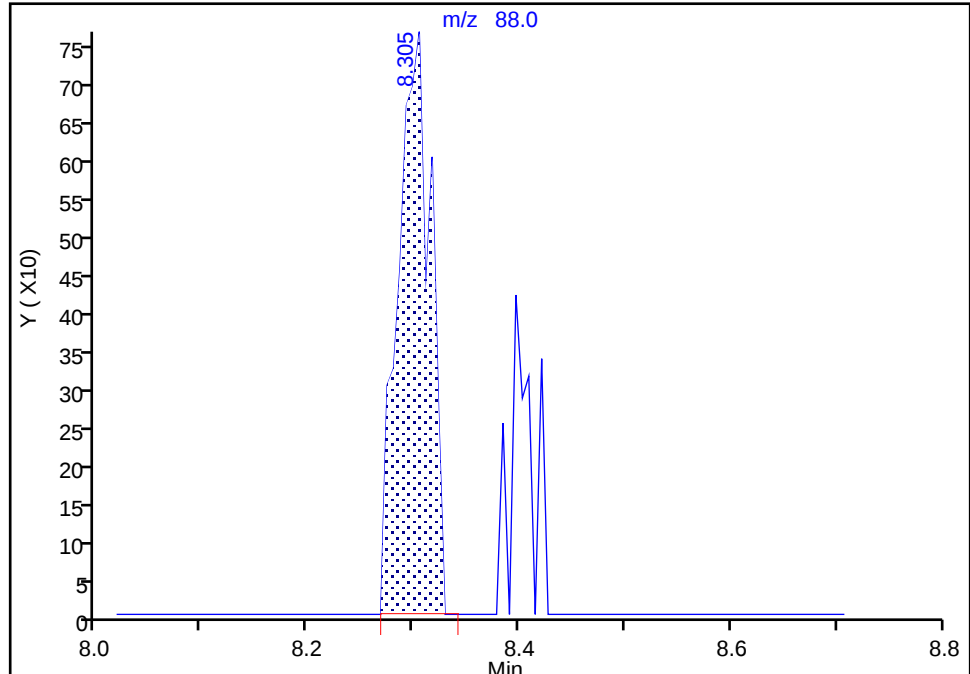
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X13.D
Injection Date: 17-Jul-2024 17:51:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

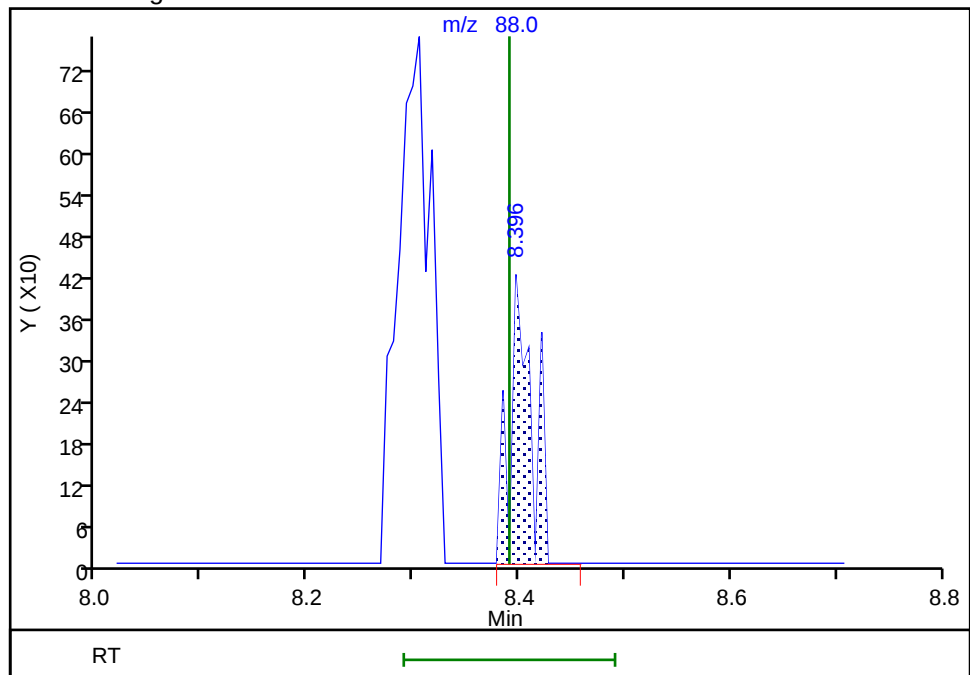
RT: 8.31
Area: 1652
Amount: 24.966844
Amount Units: ug/l

Processing Integration Results



RT: 8.40
Area: 589
Amount: 30.302513
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:25:57 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

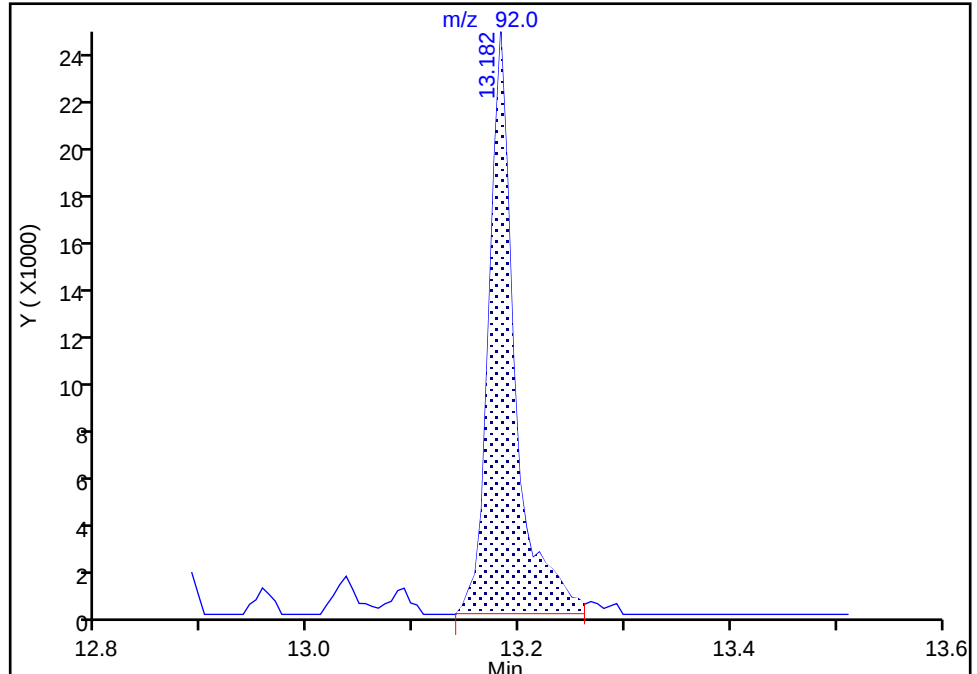
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X13.D
Injection Date: 17-Jul-2024 17:51:30 Instrument ID: 19094
Lims ID: IC std2 0.5
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

146 n-Butylbenzene, CAS: 104-51-8

Signal: 1

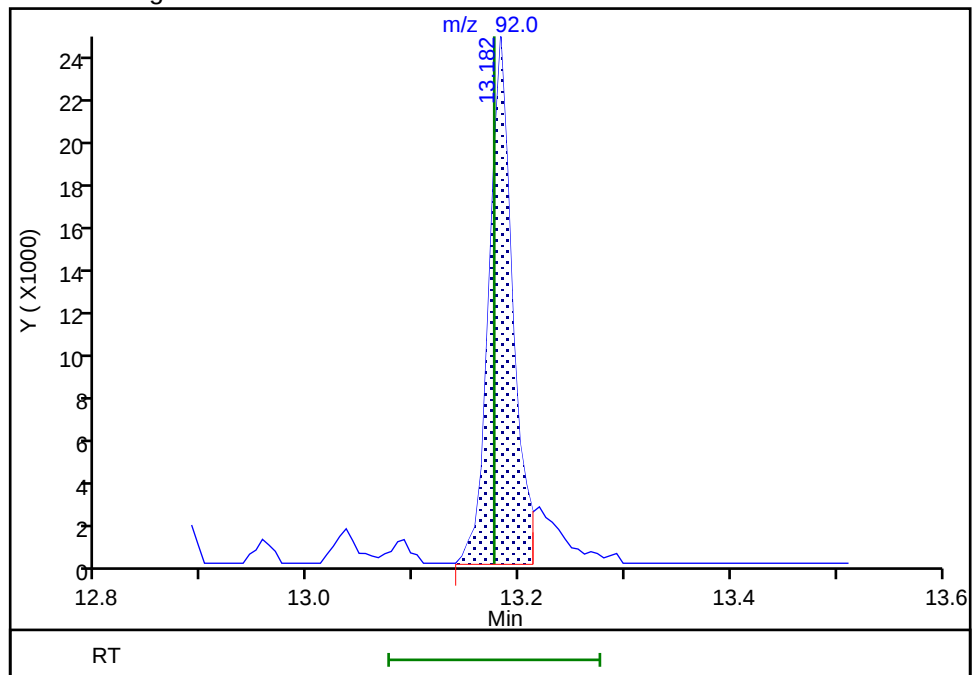
RT: 13.18
Area: 42769
Amount: 0.455897
Amount Units: ug/l

Processing Integration Results



RT: 13.18
Area: 38611
Amount: 0.416854
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 18-Jul-2024 21:30:29 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Other

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X14.D
 Lims ID: IC std3 1
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 17-Jul-2024 18:12:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119602-015
 Misc. Info.: IC std3 1
 Operator ID: knk41612 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 18-Jul-2024 22:31:19 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1666

First Level Reviewer: DVW2

Date: 18-Jul-2024 08:24:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.867	1.879	-0.012	68	55411	1.00	1.04	
5 Chloromethane	50	2.068	2.074	-0.006	99	63839	1.00	0.9602	
7 Butadiene	39	2.154	2.166	-0.012	91	53326	1.00	0.9372	
6 Vinyl chloride	62	2.166	2.178	-0.012	98	62326	1.00	1.02	
9 Bromomethane	94	2.501	2.513	-0.012	91	42344	1.00	0.99	
10 Chloroethane	64	2.538	2.550	-0.012	99	35519	1.00	1.00	
11 Dichlorofluoromethane	67	2.757	2.769	-0.012	97	98322	1.00	1.00	
12 Trichlorofluoromethane	101	2.775	2.867	-0.092	56	76358	1.00	1.04	
14 Ethyl ether	59	3.056	3.056	0.000	88	28630	1.00	1.04	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.129	3.135	-0.006	95	55610	1.00	1.02	
16 Acrolein	56	3.214	3.215	0.000	100	210009	50.1	48.4	
17 1,1-Dichloroethene	96	3.336	3.349	-0.013	97	35938	1.00	0.9515	
19 Acetone	43	3.379	3.367	0.012	94	53263	10.0	9.80	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.373	3.391	-0.018	91	39060	1.00	1.05	
21 Iodomethane	142	3.525	3.532	-0.007	98	74851	1.00	1.00	
22 Ethyl bromide	108	3.556	3.556	0.000	98	34911	1.00	1.04	
23 Carbon disulfide	76	3.635	3.635	0.000	99	110507	1.00	1.03	
24 Methyl acetate	43	3.794	3.769	0.025	26	13056	1.00	0.8866	
26 3-Chloro-1-propene	41	3.787	3.788	-0.001	91	64088	1.00	0.9753	
27 Methylene Chloride	84	3.952	3.964	-0.012	91	47257	1.00	1.00	
* 28 t-Butyl alcohol-d10 (IS)	65	3.964	3.983	-0.019	94	102122	50.0	50.0	
29 2-Methyl-2-propanol	59	4.074	4.080	-0.006	99	30018	20.0	20.1	
31 Acrylonitrile	53	4.330	4.281	0.049	28	14296	2.50	1.94	
32 Methyl tert-butyl ether	73	4.342	4.348	-0.006	96	102828	1.00	0.99	
33 trans-1,2-Dichloroethene	96	4.361	4.361	0.000	98	44322	1.00	1.00	
34 Hexane	57	4.775	4.787	-0.012	92	53002	1.00	1.02	
36 1,1-Dichloroethane	63	5.013	5.013	0.000	96	83665	1.00	0.99	
37 Isopropyl ether	45	5.068	5.074	-0.006	95	137917	1.00	0.99	
38 2-Chloro-1,3-butadiene	53	5.135	5.129	0.006	92	65626	1.00	0.9840	
40 Tert-butyl ethyl ether	59	5.616	5.616	0.000	98	130910	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	5.842	5.824	0.018	94	82055	10.0	9.14	
42 cis-1,2-Dichloroethene	96	5.854	5.854	0.000	82	49049	1.00	0.9754	
43 2,2-Dichloropropane	77	5.866	5.866	0.000	71	69697	1.00	1.00	
44 Propionitrile	54	5.921	5.903	0.018	98	38959	20.0	18.0	
47 Methacrylonitrile	67	6.122	6.122	0.000	92	102907	10.0	10.0	
S 46 1,2-Dichloroethene, Total	100				0			1.98	
48 Chlorobromomethane	128	6.189	6.190	-0.001	91	21538	1.00	1.01	
49 Tetrahydrofuran	71	6.220	6.208	0.012	77	14034	5.00	5.31	
50 Chloroform	83	6.342	6.342	0.000	93	83817	1.00	1.00	
\$ 52 Dibromofluoromethane (Surr)	113	6.555	6.561	-0.006	93	513921	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.574	6.574	0.000	41	73445	1.00	1.03	
54 Cyclohexane	56	6.677	6.677	0.000	89	70327	1.00	0.99	
56 Carbon tetrachloride	117	6.793	6.787	0.006	86	62248	1.00	1.00	
55 1,1-Dichloropropene	75	6.799	6.793	0.006	95	62311	1.00	0.9802	
57 Isobutyl alcohol	41	6.958	6.945	0.013	92	22663	50.0	47.2	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.025	-0.006	80	104171	10.0	9.95	
59 Benzene	78	7.049	7.055	-0.006	95	192189	1.00	1.00	
60 1,2-Dichloroethane	62	7.122	7.128	-0.006	97	50438	1.00	1.00	
63 Tert-amyl methyl ether	73	7.250	7.256	-0.006	99	115791	1.00	1.01	
* 64 Fluorobenzene (IS)	96	7.464	7.470	-0.006	99	2092414	10.0	10.0	
65 n-Heptane	43	7.476	7.482	-0.006	38	52085	1.00	0.9785	
67 n-Butanol	56	7.884	7.848	0.036	86	25393	87.5	95.3	
68 Trichloroethene	95	7.957	7.957	0.000	99	50755	1.00	1.00	
69 Methylcyclohexane	83	8.262	8.268	-0.006	91	73783	1.00	1.03	
70 1,2-Dichloropropane	63	8.293	8.287	0.006	95	49174	1.00	1.01	
71 2-ethoxy-2-methyl butane	87	8.305	8.305	0.000	92	70359	1.00	0.9841	
72 Methyl methacrylate	69	8.402	8.378	0.024	75	18399	1.00	0.9527	
73 1,4-Dioxane	88	8.402	8.390	0.012	30	2565	50.0	50.7	M
74 Dibromomethane	93	8.402	8.403	-0.001	93	22087	1.00	0.9759	
76 Dichlorobromomethane	83	8.640	8.634	0.006	99	58441	1.00	0.99	
77 2-Nitropropane	41	8.908	8.902	0.006	99	31608	5.00	5.00	
79 1-Bromo-2-chloroethane	63	9.036	9.037	-0.001	98	43589	1.00	1.02	
80 cis-1,3-Dichloropropene	75	9.207	9.201	0.006	96	71938	1.00	1.00	
82 4-Methyl-2-pentanone (MIBK)	43	9.384	9.384	0.000	97	252892	10.0	10.1	
\$ 83 Toluene-d8 (Surr)	98	9.524	9.524	0.000	93	2038483	10.0	9.98	
84 Toluene	92	9.603	9.604	-0.001	98	124876	1.00	1.01	
85 trans-1,3-Dichloropropene	75	9.884	9.872	0.012	94	58273	1.00	1.01	
104 Ethyl methacrylate	69	9.951	9.945	0.006	88	39892	1.00	0.9523	
S 105 1,3-Dichloropropene, Total	100				0			2.01	
106 1,1,2-Trichloroethane	97	10.085	10.085	0.000	90	33952	1.00	1.03	
107 Tetrachloroethene	166	10.176	10.177	-0.001	98	57194	1.00	0.99	
108 1,3-Dichloropropane	76	10.256	10.250	0.006	90	57623	1.00	1.03	
109 2-Hexanone	43	10.311	10.305	0.006	96	158297	10.0	9.54	
111 Chlorodibromomethane	129	10.475	10.469	0.006	91	40865	1.00	1.00	
112 Ethylene Dibromide	107	10.585	10.585	0.000	98	31297	1.00	1.02	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	1571302	10.0	10.0	
114 1-Chlorohexane	91	11.042	11.036	0.006	95	67008	1.00	0.9671	
115 Chlorobenzene	112	11.054	11.054	0.000	96	136192	1.00	1.00	
116 1,1,1,2-Tetrachloroethane	131	11.140	11.134	0.006	96	48436	1.00	1.02	
117 Ethylbenzene	91	11.146	11.140	0.006	99	235206	1.00	0.9761	
S 118 Xylenes, Total	106				0			2.97	
119 m-Xylene & p-Xylene	106	11.262	11.262	0.000	100	182367	2.00	1.99	

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	11.597	11.591	0.006	96	88319	1.00	0.9781	
121 Styrene	104	11.615	11.609	0.006	94	134692	1.00	0.9623	
122 Bromoform	173	11.774	11.768	0.006	97	25505	1.00	1.00	
123 Isopropylbenzene	105	11.902	11.896	0.006	96	217049	1.00	1.00	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	92	763245	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.146	12.146	0.000	93	40234	1.00	1.02	
128 Bromobenzene	156	12.158	12.158	0.000	96	57921	1.00	1.01	
129 trans-1,4-Dichloro-2-butene	53	12.176	12.170	0.006	94	102918	10.0	10.2	
130 1,2,3-Trichloropropane	110	12.188	12.188	0.000	81	11352	1.00	1.11	
131 N-Propylbenzene	91	12.231	12.231	0.000	99	267298	1.00	0.9733	
132 2-Chlorotoluene	126	12.310	12.304	0.006	97	56830	1.00	1.01	
133 1,3,5-Trimethylbenzene	105	12.371	12.365	0.006	94	190766	1.00	0.9878	
134 4-Chlorotoluene	126	12.402	12.396	0.006	98	55441	1.00	0.9737	
135 tert-Butylbenzene	134	12.609	12.609	0.000	94	44596	1.00	1.03	
136 Pentachloroethane	167	12.639	12.640	-0.001	81	30480	1.00	1.01	
137 1,2,4-Trimethylbenzene	105	12.658	12.652	0.006	97	188617	1.00	0.9759	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	233265	1.00	0.9781	
139 1,3-Dichlorobenzene	146	12.877	12.871	0.006	98	108997	1.00	1.00	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	202510	1.00	0.9841	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	94	872460	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.950	12.950	0.000	95	109131	1.00	0.9724	
143 1,2,3-Trimethylbenzene	120	12.956	12.957	-0.001	97	89509	1.00	1.02	
144 Benzyl chloride	126	13.030	13.024	0.006	98	14761	1.00	0.9731	
145 p-Diethylbenzene	119	13.158	13.158	0.000	94	116916	1.00	0.9738	
146 n-Butylbenzene	92	13.182	13.176	0.006	97	90904	1.00	0.9662	
147 1,2-Dichlorobenzene	146	13.212	13.206	0.006	98	98865	1.00	1.00	
149 1,2-Dibromo-3-Chloropropane	155	13.761	13.755	0.006	86	4998	1.00	0.9495	
150 1,3,5-Trichlorobenzene	180	13.883	13.877	0.006	97	72008	1.00	0.9705	
151 1,2,4-Trichlorobenzene	180	14.310	14.304	0.006	94	55732	1.00	0.9610	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	94	20896	1.00	0.9545	
153 Naphthalene	128	14.487	14.481	0.006	97	95090	1.00	0.9769	
154 1,2,3-Trichlorobenzene	180	14.627	14.621	0.006	96	45567	1.00	0.9760	
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_00137	Amount Added: 2.00	Units: uL	
MSV_LL_GAS826_00220	Amount Added: 2.00	Units: uL	
MSV_LL_#2_826_00144	Amount Added: 2.00	Units: uL	
MSV_LLcentISS_00012	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 18-Jul-2024 22:31:20

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X14.D

Injection Date: 17-Jul-2024 18:12:30

Instrument ID: 19094

Operator ID: knk41612

Lims ID: IC std3 1

Worklist Smp#: 15

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

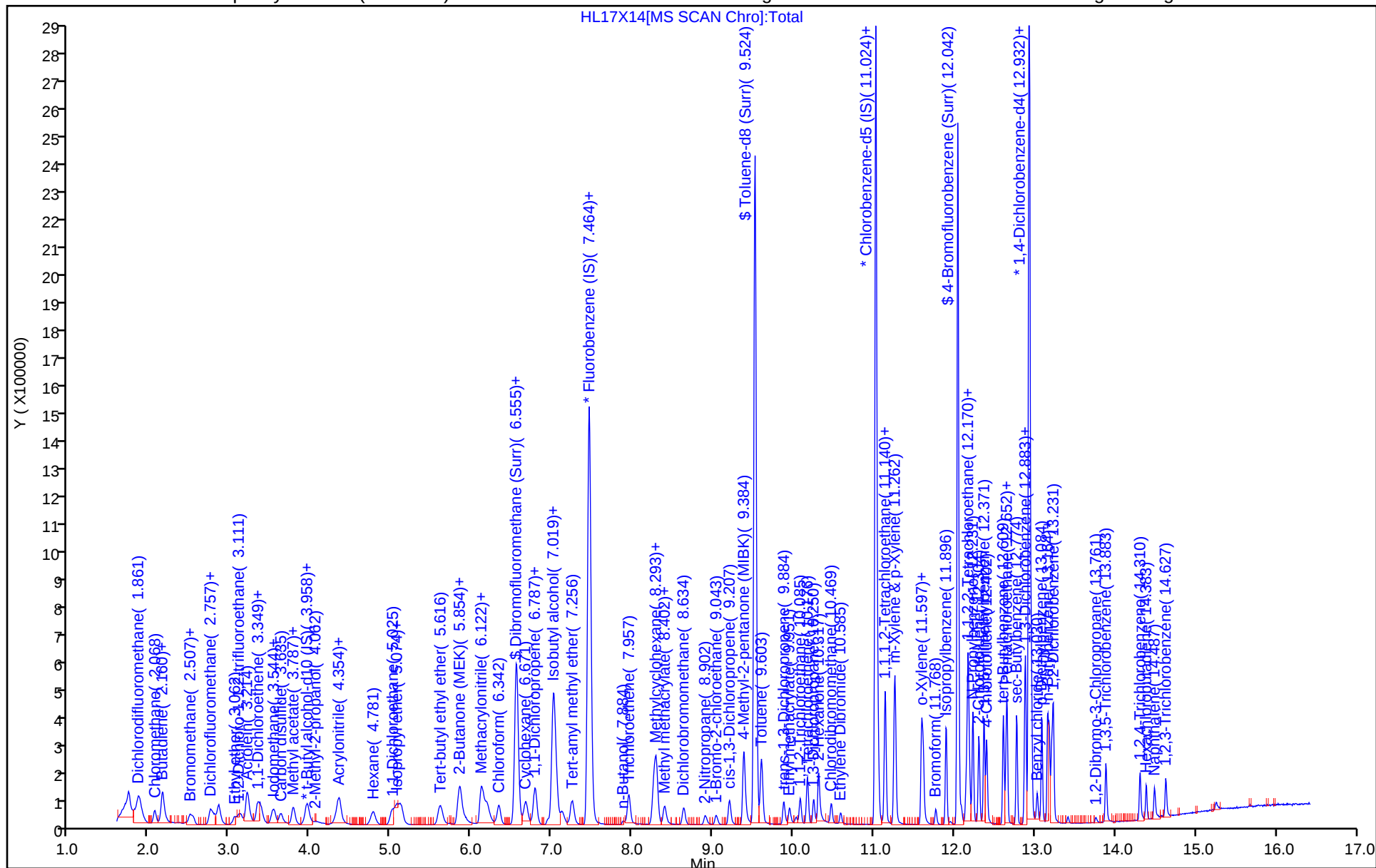
ALS Bottle#: 14

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

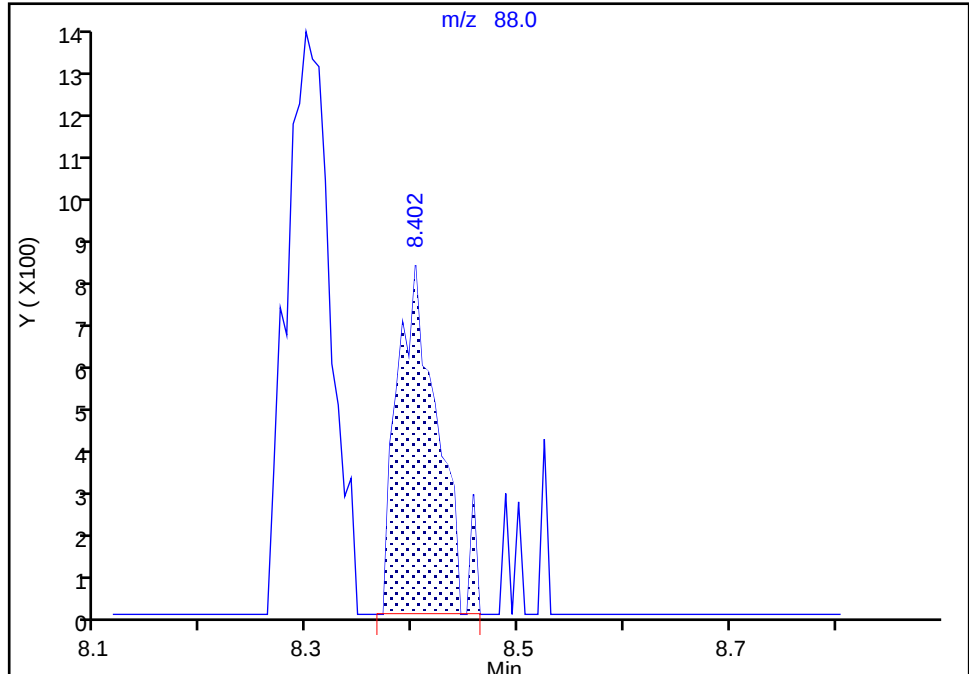
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X14.D
Injection Date: 17-Jul-2024 18:12:30 Instrument ID: 19094
Lims ID: IC std3 1
Client ID:
Operator ID: knk41612 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

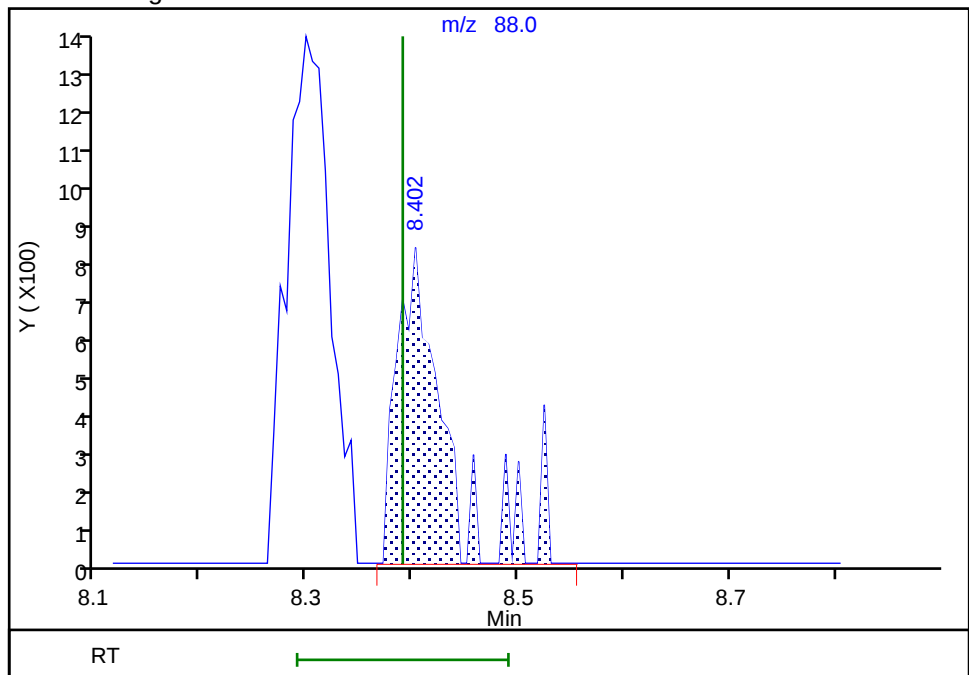
RT: 8.40
Area: 2210
Amount: 36.589273
Amount Units: ug/l

Processing Integration Results



RT: 8.40
Area: 2565
Amount: 50.724807
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:23:49 -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\20240717-119602.b\HL17X15.D
 Lims ID: IC std4 2
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 17-Jul-2024 18:32:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119602-016
 Misc. Info.: IC std4 2
 Operator ID: knk41612 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 18-Jul-2024 22:31:36 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1666

First Level Reviewer: DVW2

Date: 18-Jul-2024 08:23:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.885	1.879	0.006	80	103135	2.00	1.95	
5 Chloromethane	50	2.074	2.074	0.000	99	127199	2.00	1.92	
7 Butadiene	39	2.172	2.166	0.006	92	115676	2.00	2.04	
6 Vinyl chloride	62	2.184	2.178	0.006	98	114386	2.00	1.89	
9 Bromomethane	94	2.519	2.513	0.006	90	81600	2.00	1.92	
10 Chloroethane	64	2.562	2.550	0.012	99	68519	2.00	1.93	
11 Dichlorofluoromethane	67	2.775	2.769	0.006	97	186601	2.00	1.91	
12 Trichlorofluoromethane	101	2.873	2.867	0.006	98	141253	2.00	1.93	
14 Ethyl ether	59	3.068	3.056	0.012	92	53590	2.00	1.95	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.141	3.135	0.006	94	102520	2.00	1.89	
16 Acrolein	56	3.221	3.215	0.007	99	440712	100.2	103.9	
17 1,1-Dichloroethene	96	3.355	3.349	0.006	98	73081	2.00	1.94	
19 Acetone	43	3.385	3.367	0.018	99	108891	20.0	20.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.403	3.391	0.012	90	74381	2.00	2.01	
21 Iodomethane	142	3.538	3.532	0.006	99	149959	2.00	2.01	
22 Ethyl bromide	108	3.568	3.556	0.012	98	63457	2.00	1.90	
23 Carbon disulfide	76	3.641	3.635	0.006	99	214076	2.00	2.00	
24 Methyl acetate	43	3.787	3.769	0.018	27	27571	2.00	1.92	M
26 3-Chloro-1-propene	41	3.800	3.788	0.012	91	131675	2.00	2.01	
27 Methylene Chloride	84	3.970	3.964	0.006	91	91222	2.00	1.95	
* 28 t-Butyl alcohol-d10 (IS)	65	3.976	3.983	-0.007	96	99711	50.0	50.0	
29 2-Methyl-2-propanol	59	4.092	4.080	0.012	99	57937	40.0	39.7	
31 Acrylonitrile	53	4.312	4.281	0.031	98	34281	5.00	4.77	
32 Methyl tert-butyl ether	73	4.342	4.348	-0.006	95	206688	2.00	2.00	
33 trans-1,2-Dichloroethene	96	4.373	4.361	0.012	99	86294	2.00	1.96	
34 Hexane	57	4.787	4.787	0.000	92	105375	2.00	2.03	
36 1,1-Dichloroethane	63	5.019	5.013	0.006	96	168074	2.00	2.00	
37 Isopropyl ether	45	5.086	5.074	0.012	93	277041	2.00	2.00	
38 2-Chloro-1,3-butadiene	53	5.141	5.129	0.012	92	130622	2.00	1.97	
40 Tert-butyl ethyl ether	59	5.623	5.616	0.006	98	256859	2.00	1.99	

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	5.842	5.824	0.018	100	183369	20.0	20.9	
42 cis-1,2-Dichloroethene	96	5.860	5.854	0.006	82	100203	2.00	2.00	
43 2,2-Dichloropropane	77	5.866	5.866	0.000	87	138589	2.00	1.99	
44 Propionitrile	54	5.921	5.903	0.018	98	80750	40.0	33.6	
47 Methacrylonitrile	67	6.128	6.122	0.006	92	210419	20.0	21.0	
S 46 1,2-Dichloroethene, Total	100				0			3.96	
48 Chlorobromomethane	128	6.196	6.190	0.006	91	42127	2.00	1.99	
49 Tetrahydrofuran	71	6.220	6.208	0.012	69	28231	10.0	10.9	
50 Chloroform	83	6.348	6.342	0.006	93	166424	2.00	2.00	
\$ 52 Dibromofluoromethane (Surr)	113	6.567	6.561	0.006	94	511296	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.580	6.574	0.006	98	140304	2.00	1.97	
54 Cyclohexane	56	6.683	6.677	0.006	90	138098	2.00	1.96	
56 Carbon tetrachloride	117	6.793	6.787	0.006	87	123016	2.00	1.99	
55 1,1-Dichloropropene	75	6.799	6.793	0.006	95	123604	2.00	1.95	
57 Isobutyl alcohol	41	6.958	6.945	0.013	95	46228	100.0	98.6	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.025	-0.006	81	106746	10.0	10.2	
59 Benzene	78	7.061	7.055	0.006	96	380618	2.00	1.98	
60 1,2-Dichloroethane	62	7.128	7.128	0.000	97	102042	2.00	2.02	
63 Tert-amyl methyl ether	73	7.256	7.256	0.000	98	227609	2.00	2.00	
* 64 Fluorobenzene (IS)	96	7.470	7.470	0.000	98	2082929	10.0	10.0	
65 n-Heptane	43	7.494	7.482	0.012	90	103113	2.00	1.95	
67 n-Butanol	56	7.872	7.848	0.024	89	58005	175.0	171.2	
68 Trichloroethene	95	7.957	7.957	0.000	98	100129	2.00	1.98	
69 Methylcyclohexane	83	8.268	8.268	0.000	93	141729	2.00	1.98	
70 1,2-Dichloropropane	63	8.287	8.287	0.000	94	96005	2.00	1.98	
71 2-ethoxy-2-methyl butane	87	8.305	8.305	0.000	92	141667	2.00	1.99	
72 Methyl methacrylate	69	8.390	8.378	0.012	87	38407	2.00	2.04	
73 1,4-Dioxane	88	8.396	8.390	0.006	31	7477	100.0	103.9	M
74 Dibromomethane	93	8.409	8.403	0.006	93	46352	2.00	2.06	
76 Dichlorobromomethane	83	8.640	8.634	0.006	99	118299	2.00	2.02	
77 2-Nitropropane	41	8.908	8.902	0.006	98	60174	10.0	9.75	
79 1-Bromo-2-chloroethane	63	9.043	9.037	0.006	98	81329	2.00	1.91	
80 cis-1,3-Dichloropropene	75	9.207	9.201	0.006	96	142894	2.00	2.00	
82 4-Methyl-2-pentanone (MIBK)	43	9.384	9.384	0.000	97	510085	20.0	20.8	
\$ 83 Toluene-d8 (Surr)	98	9.524	9.524	0.000	93	2043996	10.0	9.98	
84 Toluene	92	9.603	9.604	-0.001	98	247257	2.00	1.99	
85 trans-1,3-Dichloropropene	75	9.878	9.872	0.006	93	114809	2.00	1.98	
104 Ethyl methacrylate	69	9.951	9.945	0.006	88	85090	2.00	2.03	
S 105 1,3-Dichloropropene, Total	100				0			3.98	
106 1,1,2-Trichloroethane	97	10.085	10.085	0.000	91	64482	2.00	1.95	
107 Tetrachloroethene	166	10.176	10.177	-0.001	98	114229	2.00	1.97	
108 1,3-Dichloropropane	76	10.250	10.250	0.000	90	112880	2.00	2.01	
109 2-Hexanone	43	10.311	10.305	0.006	97	324991	20.0	20.1	
111 Chlorodibromomethane	129	10.469	10.469	0.000	89	81625	2.00	2.00	
112 Ethylene Dibromide	107	10.585	10.585	0.000	99	61941	2.00	2.01	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	1575332	10.0	10.0	
114 1-Chlorohexane	91	11.042	11.036	0.006	97	131072	2.00	1.89	
115 Chlorobenzene	112	11.054	11.054	0.000	95	270180	2.00	1.98	
116 1,1,1,2-Tetrachloroethane	131	11.140	11.134	0.006	94	94490	2.00	1.98	
117 Ethylbenzene	91	11.146	11.140	0.006	99	477950	2.00	1.98	
S 118 Xylenes, Total	106				0			5.99	
119 m-Xylene & p-Xylene	106	11.262	11.262	0.000	100	367164	4.00	4.00	

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	11.591	11.591	0.000	97	179587	2.00	1.98	
121 Styrene	104	11.609	11.609	0.000	94	278205	2.00	1.98	
122 Bromoform	173	11.768	11.768	0.000	98	51626	2.00	2.01	
123 Isopropylbenzene	105	11.896	11.896	0.000	96	431939	2.00	1.98	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	92	764534	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.146	12.146	0.000	92	80095	2.00	2.03	
128 Bromobenzene	156	12.158	12.158	0.000	96	115186	2.00	2.00	
129 trans-1,4-Dichloro-2-butene	53	12.170	12.170	0.000	94	205401	20.0	20.9	
130 1,2,3-Trichloropropane	110	12.194	12.188	0.006	80	21029	2.00	2.06	
131 N-Propylbenzene	91	12.231	12.231	0.000	99	554694	2.00	2.02	
132 2-Chlorotoluene	126	12.304	12.304	0.000	96	113923	2.00	2.02	
133 1,3,5-Trimethylbenzene	105	12.371	12.365	0.006	94	383098	2.00	1.98	
134 4-Chlorotoluene	126	12.402	12.396	0.006	97	115637	2.00	2.03	
135 tert-Butylbenzene	134	12.609	12.609	0.000	93	83719	2.00	1.94	
136 Pentachloroethane	167	12.639	12.640	-0.001	92	56475	2.00	1.88	
137 1,2,4-Trimethylbenzene	105	12.652	12.652	0.000	97	387876	2.00	2.01	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	473356	2.00	1.98	
139 1,3-Dichlorobenzene	146	12.877	12.871	0.006	98	217258	2.00	2.00	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	410578	2.00	1.99	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	95	872633	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.950	12.950	0.000	96	222405	2.00	1.98	
143 1,2,3-Trimethylbenzene	120	12.956	12.957	-0.001	98	173683	2.00	1.99	
144 Benzyl chloride	126	13.030	13.024	0.006	99	31696	2.00	2.09	
145 p-Diethylbenzene	119	13.158	13.158	0.000	94	240833	2.00	2.01	
146 n-Butylbenzene	92	13.176	13.176	0.000	97	189440	2.00	2.01	
147 1,2-Dichlorobenzene	146	13.212	13.206	0.006	98	200320	2.00	2.02	
149 1,2-Dibromo-3-Chloropropane	155	13.761	13.755	0.006	87	10305	2.00	1.96	
150 1,3,5-Trichlorobenzene	180	13.883	13.877	0.006	97	146055	2.00	1.97	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	118082	2.00	2.04	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	95	41538	2.00	1.90	
153 Naphthalene	128	14.487	14.481	0.006	97	198506	2.00	2.04	
154 1,2,3-Trichlorobenzene	180	14.627	14.621	0.006	95	91311	2.00	1.96	
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_00137	Amount Added: 2.00	Units: uL	
MSV_LL_GAS826_00220	Amount Added: 2.00	Units: uL	
MSV_LL_#2_826_00144	Amount Added: 2.00	Units: uL	
MSV_LLcentISS_00012	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 18-Jul-2024 22:31:36

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X15.D

Injection Date: 17-Jul-2024 18:32:30

Instrument ID: 19094

Operator ID: knk41612

Lims ID: IC std4 2

Worklist Smp#: 16

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

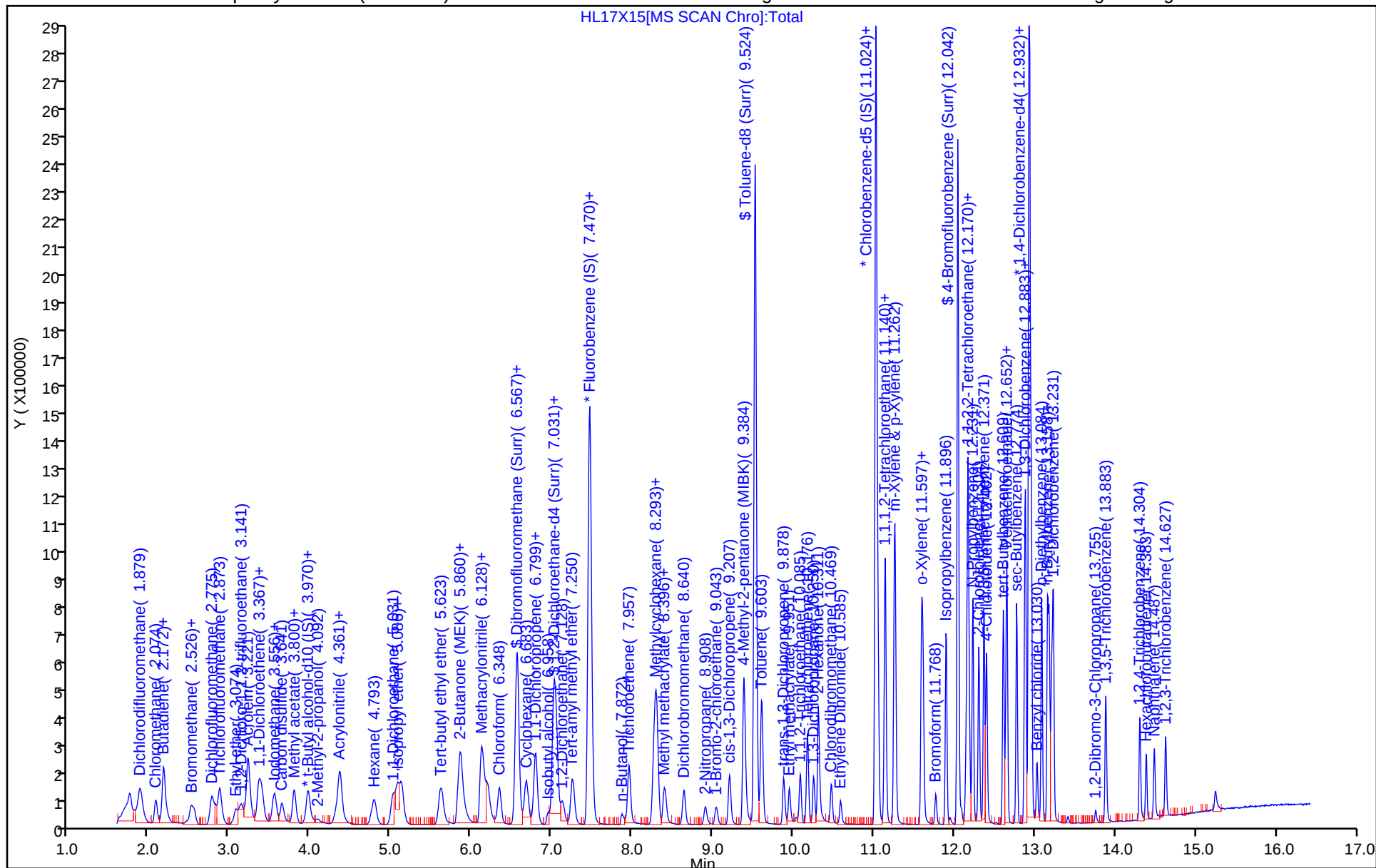
ALS Bottle#: 15

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

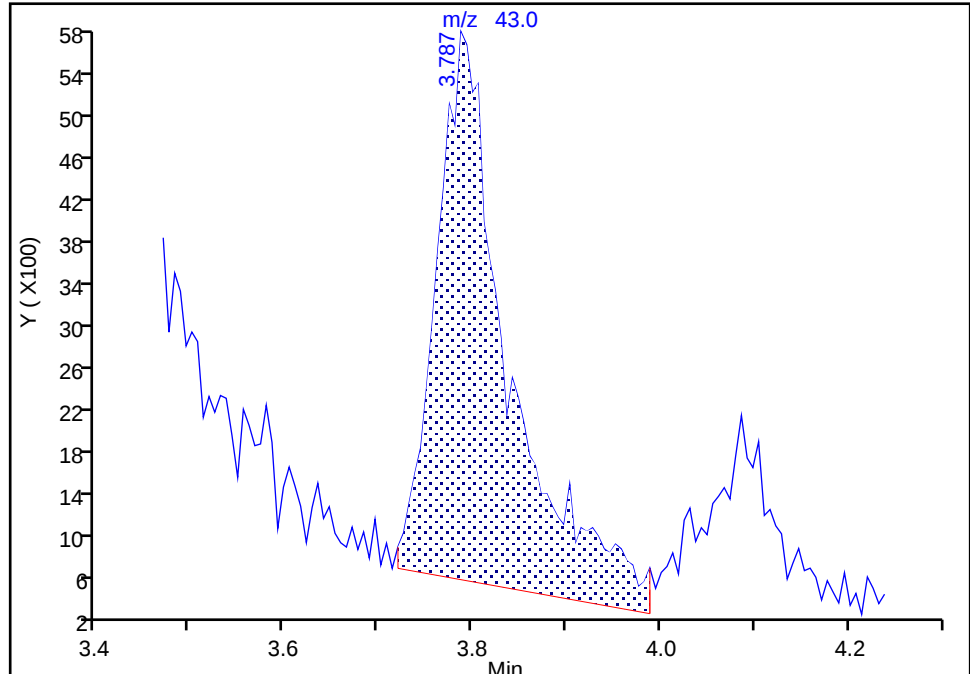
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X15.D
Injection Date: 17-Jul-2024 18:32:30 Instrument ID: 19094
Lims ID: IC std4 2
Client ID:
Operator ID: knk41612 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

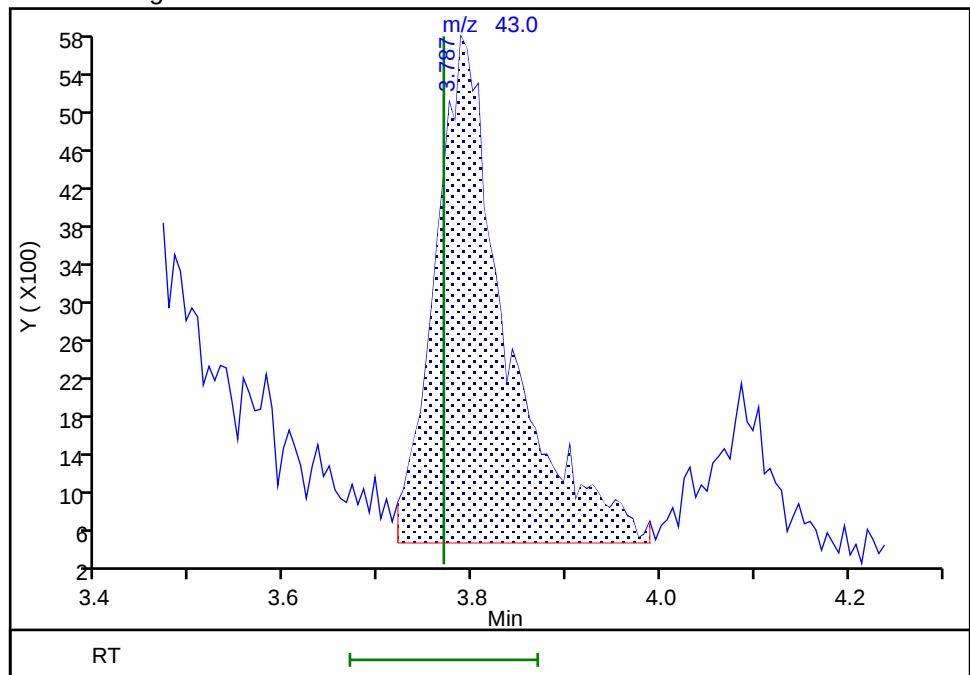
RT: 3.79
Area: 27415
Amount: 2.028865
Amount Units: ug/l

Processing Integration Results



RT: 3.79
Area: 27571
Amount: 1.917504
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:22:38 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

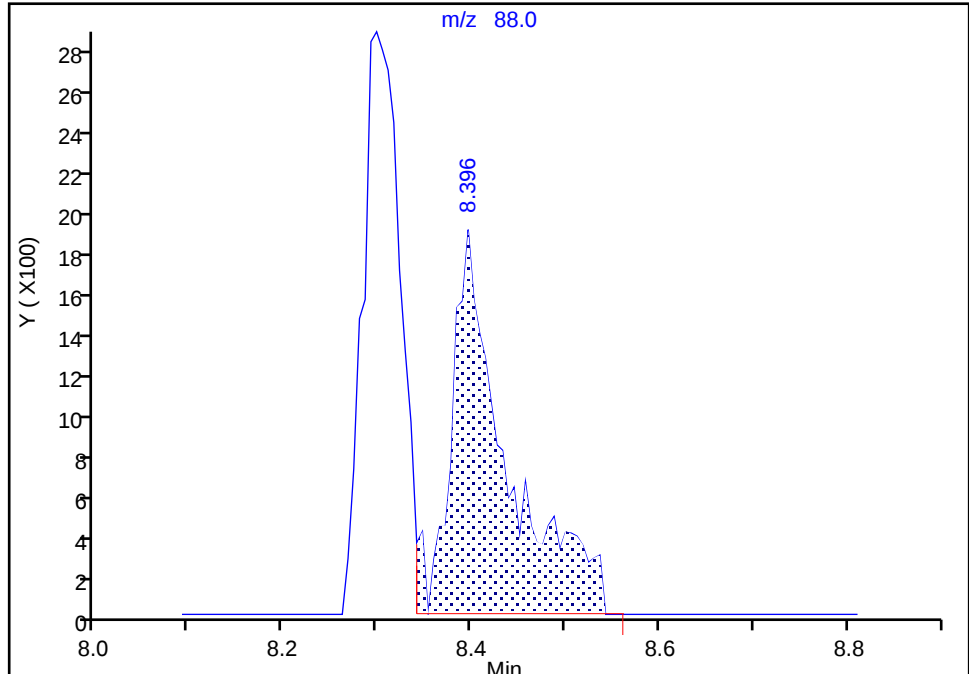
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X15.D
Injection Date: 17-Jul-2024 18:32:30 Instrument ID: 19094
Lims ID: IC std4 2
Client ID:
Operator ID: knk41612 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

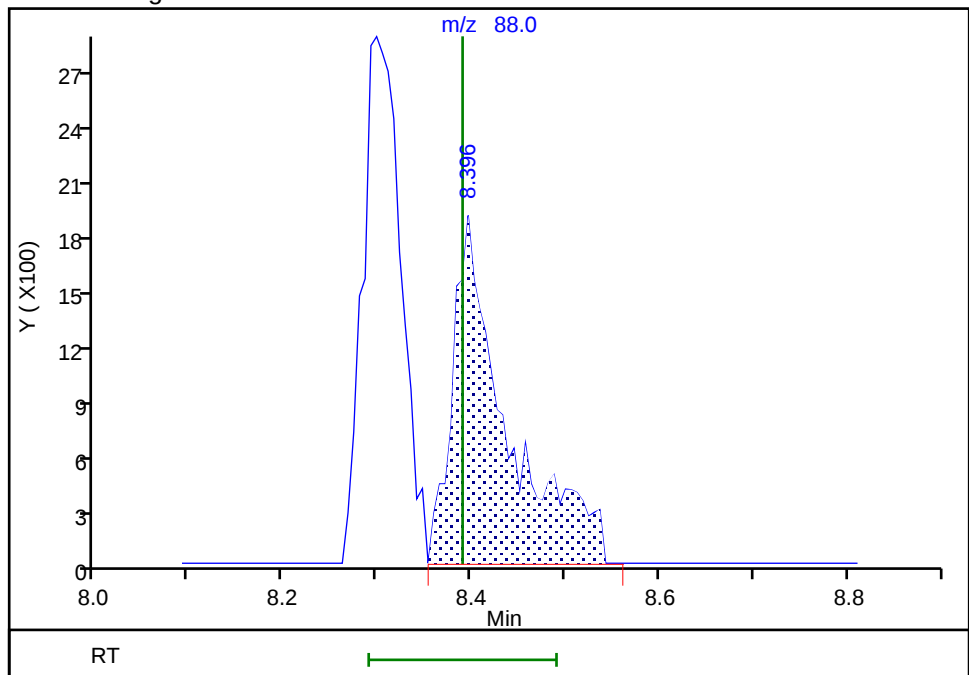
RT: 8.40
Area: 7752
Amount: 102.8763
Amount Units: ug/l

Processing Integration Results



RT: 8.40
Area: 7477
Amount: 103.8893
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 09:03:42 -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\20240717-119602.b\HL17X16.D
 Lims ID: IC std5 5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 17-Jul-2024 18:53:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119602-017
 Misc. Info.: IC std5 5
 Operator ID: knk41612 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 18-Jul-2024 22:31:51 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1666

First Level Reviewer: DVW2

Date: 18-Jul-2024 08:17:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.886	1.879	0.007	100	285274	5.00	5.22	
5 Chloromethane	50	2.081	2.074	0.007	99	341207	5.00	5.00	
7 Butadiene	39	2.172	2.166	0.006	90	321741	5.00	5.51	
6 Vinyl chloride	62	2.184	2.178	0.006	98	315003	5.00	5.04	
9 Bromomethane	94	2.513	2.513	0.000	91	223017	5.00	5.09	
10 Chloroethane	64	2.556	2.550	0.006	99	185950	5.00	5.08	
11 Dichlorofluoromethane	67	2.776	2.769	0.007	97	508235	5.00	5.04	
12 Trichlorofluoromethane	101	2.873	2.867	0.006	98	395462	5.00	5.25	
14 Ethyl ether	59	3.068	3.056	0.012	92	150219	5.00	5.29	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.141	3.135	0.006	93	287233	5.00	5.14	
16 Acrolein	56	3.221	3.215	0.007	99	1245451	250.5	265.6	
17 1,1-Dichloroethene	96	3.355	3.349	0.006	98	203584	5.00	5.25	
19 Acetone	43	3.385	3.367	0.018	100	291520	50.0	49.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.397	3.391	0.006	91	213087	5.00	5.59	
21 Iodomethane	142	3.538	3.532	0.006	99	404273	5.00	5.25	
22 Ethyl bromide	108	3.568	3.556	0.012	98	178273	5.01	5.17	
23 Carbon disulfide	76	3.647	3.635	0.012	99	578928	5.00	5.24	
24 Methyl acetate	43	3.775	3.769	0.006	44	75415	5.00	4.74	
26 3-Chloro-1-propene	41	3.800	3.788	0.012	91	355706	5.00	5.27	
27 Methylene Chloride	84	3.970	3.964	0.006	92	240812	5.00	4.99	
* 28 t-Butyl alcohol-d10 (IS)	65	3.970	3.983	-0.013	97	110278	50.0	50.0	
29 2-Methyl-2-propanol	59	4.099	4.080	0.018	99	163655	100.0	101.5	
31 Acrylonitrile	53	4.294	4.281	0.013	99	103737	12.5	13.0	
32 Methyl tert-butyl ether	73	4.348	4.348	0.000	96	556492	5.00	5.23	
33 trans-1,2-Dichloroethene	96	4.373	4.361	0.012	99	234115	5.00	5.17	
34 Hexane	57	4.787	4.787	0.000	92	310523	5.00	5.81	
36 1,1-Dichloroethane	63	5.025	5.013	0.012	96	444557	5.00	5.13	
37 Isopropyl ether	45	5.080	5.074	0.006	94	738059	5.00	5.17	
38 2-Chloro-1,3-butadiene	53	5.129	5.129	0.000	91	370346	5.00	5.41	
40 Tert-butyl ethyl ether	59	5.623	5.616	0.007	98	697966	5.00	5.26	

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	5.830	5.824	0.006	100	518321	50.0	53.5	
42 cis-1,2-Dichloroethene	96	5.860	5.854	0.006	82	269274	5.00	5.22	
43 2,2-Dichloropropane	77	5.879	5.866	0.013	88	371657	5.00	5.17	
44 Propionitrile	54	5.915	5.903	0.012	99	259240	100.0	89.7	
47 Methacrylonitrile	67	6.129	6.122	0.007	91	592679	50.0	53.4	
S 46 1,2-Dichloroethene, Total	100				0			10.4	
48 Chlorobromomethane	128	6.196	6.190	0.006	93	114725	5.00	5.26	
49 Tetrahydrofuran	71	6.226	6.208	0.018	78	79216	25.0	27.8	
50 Chloroform	83	6.348	6.342	0.006	94	445327	5.00	5.18	
\$ 52 Dibromofluoromethane (Surr)	113	6.568	6.561	0.007	94	528198	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.580	6.574	0.006	98	389907	5.00	5.32	
54 Cyclohexane	56	6.683	6.677	0.006	91	401385	5.00	5.53	
56 Carbon tetrachloride	117	6.793	6.787	0.006	94	340591	5.00	5.33	
55 1,1-Dichloropropene	75	6.799	6.793	0.006	96	344654	5.00	5.28	
57 Isobutyl alcohol	41	6.946	6.945	0.001	93	141060	250.0	271.9	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.025	7.025	0.000	95	109485	10.0	10.2	
59 Benzene	78	7.055	7.055	0.000	97	1043911	5.00	5.28	
60 1,2-Dichloroethane	62	7.135	7.128	0.006	97	278071	5.00	5.35	
63 Tert-amyl methyl ether	73	7.256	7.256	0.000	99	614715	5.00	5.24	
* 64 Fluorobenzene (IS)	96	7.470	7.470	0.000	98	2147537	10.0	10.0	
65 n-Heptane	43	7.488	7.482	0.006	91	310620	5.00	5.69	
67 n-Butanol	56	7.854	7.848	0.006	89	178991	437.5	408.3	
68 Trichloroethene	95	7.958	7.957	0.001	99	269294	5.00	5.17	
69 Methylcyclohexane	83	8.268	8.268	0.000	93	415012	5.00	5.62	
70 1,2-Dichloropropane	63	8.287	8.287	0.000	87	263728	5.00	5.28	
71 2-ethoxy-2-methyl butane	87	8.305	8.305	0.000	92	386837	5.00	5.27	
72 Methyl methacrylate	69	8.390	8.378	0.012	90	110457	5.00	5.30	
73 1,4-Dioxane	88	8.390	8.390	0.000	33	20852	250.0	228.0	M
74 Dibromomethane	93	8.403	8.403	0.000	95	125447	5.00	5.40	
76 Dichlorobromomethane	83	8.640	8.634	0.006	99	319788	5.00	5.29	
77 2-Nitropropane	41	8.902	8.902	0.000	98	168568	25.0	24.7	
79 1-Bromo-2-chloroethane	63	9.043	9.037	0.006	99	230339	5.00	5.24	
80 cis-1,3-Dichloropropene	75	9.207	9.201	0.006	96	395013	5.00	5.37	
82 4-Methyl-2-pentanone (MIBK)	43	9.384	9.384	0.000	97	1428635	50.0	52.7	
\$ 83 Toluene-d8 (Surr)	98	9.524	9.524	0.000	93	2102825	10.0	9.97	
84 Toluene	92	9.604	9.604	0.000	98	662789	5.00	5.17	
85 trans-1,3-Dichloropropene	75	9.878	9.872	0.006	93	318847	5.00	5.33	
104 Ethyl methacrylate	69	9.945	9.945	0.000	88	243024	5.00	5.62	
S 105 1,3-Dichloropropene, Total	100				0			10.7	
106 1,1,2-Trichloroethane	97	10.085	10.085	0.000	90	177984	5.00	5.22	
107 Tetrachloroethene	166	10.177	10.177	0.000	99	311584	5.00	5.23	
108 1,3-Dichloropropane	76	10.250	10.250	0.000	90	307626	5.00	5.31	
109 2-Hexanone	43	10.311	10.305	0.006	96	950515	50.0	53.0	
111 Chlorodibromomethane	129	10.469	10.469	0.000	90	225771	5.00	5.37	
112 Ethylene Dibromide	107	10.585	10.585	0.000	98	169021	5.00	5.33	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1621905	10.0	10.0	
114 1-Chlorohexane	91	11.036	11.036	0.000	97	364522	5.00	5.10	
115 Chlorobenzene	112	11.054	11.054	0.000	95	727641	5.00	5.17	
116 1,1,1,2-Tetrachloroethane	131	11.140	11.134	0.006	96	257505	5.00	5.23	
117 Ethylbenzene	91	11.140	11.140	0.000	99	1297457	5.00	5.22	
S 118 Xylenes, Total	106				0			15.7	
119 m-Xylene & p-Xylene	106	11.262	11.262	0.000	100	994582	10.0	10.5	

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	11.591	11.591	0.000	97	485891	5.00	5.21	
121 Styrene	104	11.609	11.609	0.000	95	781985	5.00	5.41	
122 Bromoform	173	11.768	11.768	0.000	97	138401	5.00	5.24	
123 Isopropylbenzene	105	11.896	11.896	0.000	96	1186225	5.00	5.28	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	92	786176	10.0	9.98	
127 1,1,2,2-Tetrachloroethane	83	12.146	12.146	0.000	92	216990	5.00	5.27	
128 Bromobenzene	156	12.158	12.158	0.000	96	312064	5.00	5.20	
129 trans-1,4-Dichloro-2-butene	53	12.170	12.170	0.000	94	573467	50.0	52.8	
130 1,2,3-Trichloropropane	110	12.188	12.188	0.000	78	57302	5.00	5.37	
131 N-Propylbenzene	91	12.231	12.231	0.000	99	1492472	5.00	5.21	
132 2-Chlorotoluene	126	12.304	12.304	0.000	96	306440	5.00	5.22	
133 1,3,5-Trimethylbenzene	105	12.371	12.365	0.006	94	1055997	5.00	5.24	
134 4-Chlorotoluene	126	12.402	12.396	0.006	97	310904	5.00	5.23	
135 tert-Butylbenzene	134	12.609	12.609	0.000	93	230890	5.00	5.12	
136 Pentachloroethane	167	12.640	12.640	0.000	88	167767	5.00	5.35	
137 1,2,4-Trimethylbenzene	105	12.652	12.652	0.000	99	1066239	5.00	5.29	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	1317645	5.00	5.29	
139 1,3-Dichlorobenzene	146	12.877	12.871	0.006	98	589863	5.00	5.21	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	1127839	5.00	5.25	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	94	910535	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.950	12.950	0.000	95	598508	5.00	5.11	
143 1,2,3-Trimethylbenzene	120	12.957	12.957	0.000	99	469362	5.00	5.14	
144 Benzyl chloride	126	13.024	13.024	0.000	99	90213	5.00	5.70	
145 p-Diethylbenzene	119	13.158	13.158	0.000	94	668442	5.00	5.33	
146 n-Butylbenzene	92	13.176	13.176	0.000	97	532292	5.00	5.42	
147 1,2-Dichlorobenzene	146	13.206	13.206	0.000	98	544734	5.00	5.26	
149 1,2-Dibromo-3-Chloropropane	155	13.755	13.755	0.000	87	30004	5.00	5.46	
150 1,3,5-Trichlorobenzene	180	13.883	13.877	0.006	98	408296	5.00	5.27	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	334967	5.00	5.53	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	95	117651	5.00	5.15	
153 Naphthalene	128	14.481	14.481	0.000	97	568628	5.00	5.60	
154 1,2,3-Trichlorobenzene	180	14.627	14.621	0.006	96	263494	5.00	5.41	
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_00137

Amount Added: 5.00

Units: uL

MSV_LL_GAS826_00220

Amount Added: 5.00

Units: uL

MSV_LL_#2_826_00144

Amount Added: 5.00

Units: uL

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 18-Jul-2024 22:31:52

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X16.D

Injection Date: 17-Jul-2024 18:53:30

Instrument ID: 19094

Operator ID: knk41612

Lims ID: IC std5 5

Worklist Smp#: 17

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

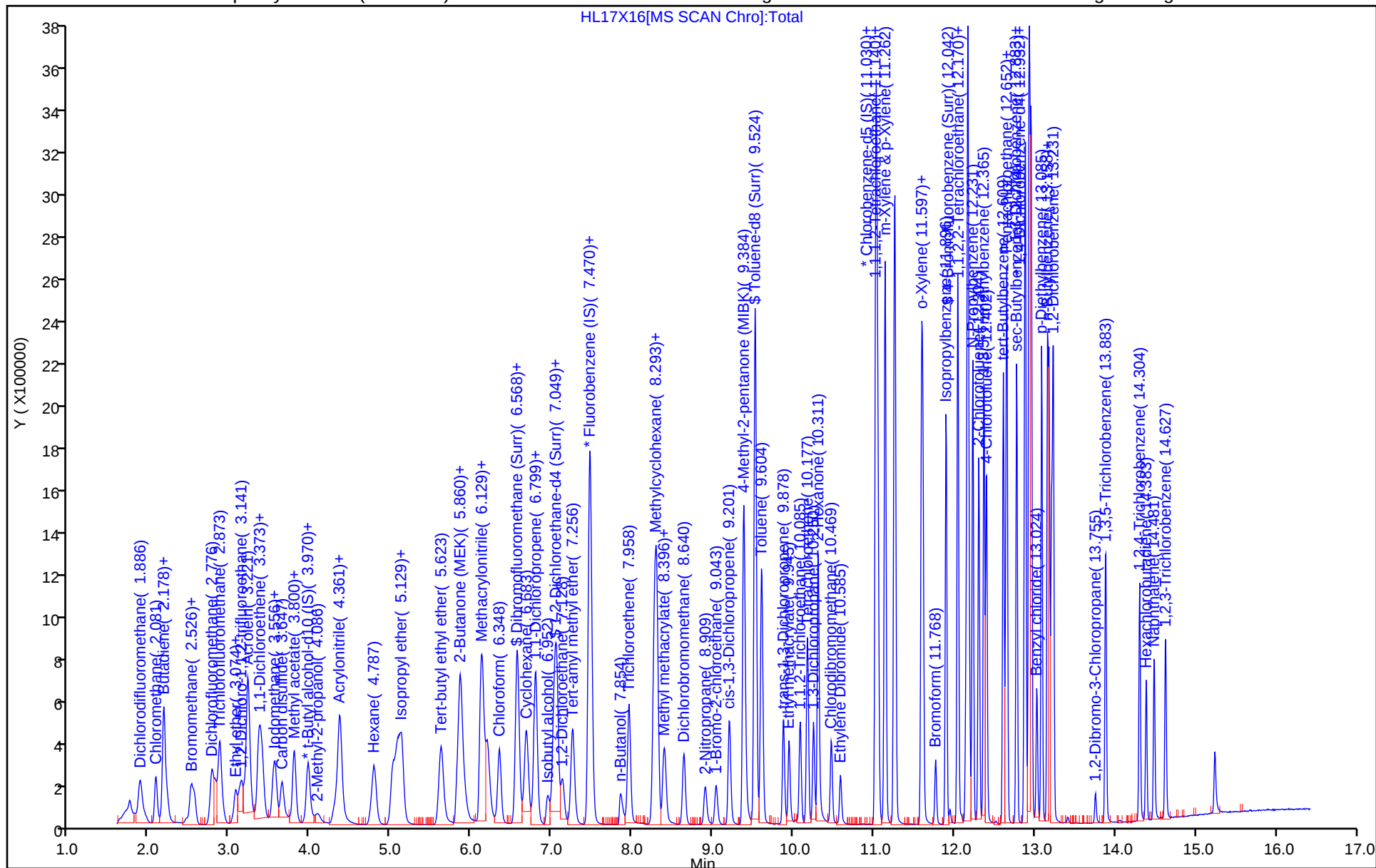
ALS Bottle#: 16

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

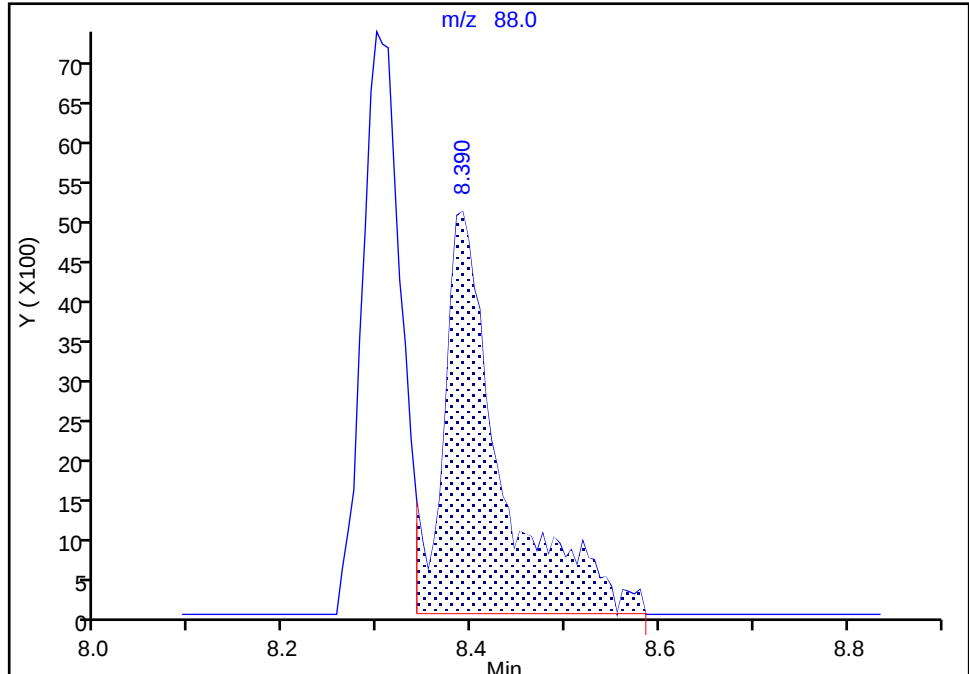
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X16.D
Injection Date: 17-Jul-2024 18:53:30 Instrument ID: 19094
Lims ID: IC std5 5
Client ID:
Operator ID: knk41612 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

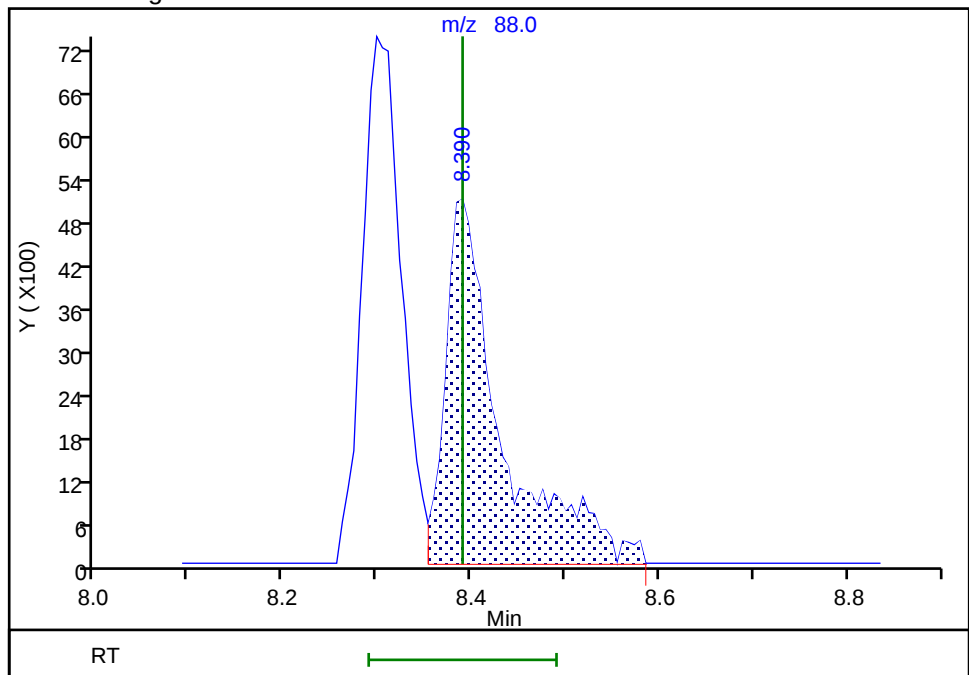
RT: 8.39
Area: 21709
Amount: 246.8991
Amount Units: ug/l

Processing Integration Results



RT: 8.39
Area: 20852
Amount: 228.0220
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 09:03:29 -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\20240717-119602.b\HL17X17.D
 Lims ID: ICIS 10
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 17-Jul-2024 19:14:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119602-018
 Misc. Info.: ICIS 10
 Operator ID: knk41612 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 18-Jul-2024 22:32:07 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1666

First Level Reviewer: DVW2

Date: 18-Jul-2024 08:15:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.879	1.879	0.000	99	587472	10.0	10.6	
5 Chloromethane	50	2.074	2.074	0.000	99	698279	10.0	10.1	
7 Butadiene	39	2.166	2.166	0.000	92	647940	10.0	10.9	
6 Vinyl chloride	62	2.178	2.178	0.000	98	653418	10.0	10.3	
9 Bromomethane	94	2.513	2.513	0.000	91	466775	10.0	10.5	
10 Chloroethane	64	2.550	2.550	0.000	100	384021	10.0	10.3	
11 Dichlorofluoromethane	67	2.769	2.769	0.000	97	1042688	10.0	10.2	
12 Trichlorofluoromethane	101	2.867	2.867	0.000	98	796394	10.0	10.4	
14 Ethyl ether	59	3.056	3.056	0.000	91	316557	10.0	11.0	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.135	3.135	0.000	93	586623	10.0	10.3	
16 Acrolein	56	3.215	3.215	0.000	99	2539491	501.1	553.1	
17 1,1-Dichloroethene	96	3.349	3.349	0.000	98	399604	10.0	10.2	
19 Acetone	43	3.367	3.367	0.000	100	576319	100.0	100.3	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.391	3.391	0.000	92	414973	10.0	10.7	
21 Iodomethane	142	3.532	3.532	0.000	98	805987	10.0	10.3	
22 Ethyl bromide	108	3.556	3.556	0.000	98	381365	10.0	10.9	
23 Carbon disulfide	76	3.635	3.635	0.000	99	1152754	10.0	10.3	
24 Methyl acetate	43	3.769	3.769	0.000	96	147389	10.0	9.47	
26 3-Chloro-1-propene	41	3.788	3.788	0.000	92	712108	10.0	10.4	
27 Methylene Chloride	84	3.964	3.964	0.000	92	476063	10.0	9.72	
* 28 t-Butyl alcohol-d10 (IS)	65	3.970	3.970	0.000	97	107980	50.0	50.0	
29 2-Methyl-2-propanol	59	4.080	4.080	0.000	100	346202	200.0	219.2	
31 Acrylonitrile	53	4.281	4.281	0.000	98	212540	25.0	27.3	
32 Methyl tert-butyl ether	73	4.348	4.348	0.000	95	1110851	10.0	10.3	
33 trans-1,2-Dichloroethene	96	4.361	4.361	0.000	99	476229	10.0	10.4	
34 Hexane	57	4.787	4.787	0.000	93	590406	10.0	10.9	
36 1,1-Dichloroethane	63	5.013	5.013	0.000	96	913187	10.0	10.4	
37 Isopropyl ether	45	5.074	5.074	0.000	95	1523642	10.0	10.5	
38 2-Chloro-1,3-butadiene	53	5.129	5.129	0.000	91	743137	10.0	10.7	
40 Tert-butyl ethyl ether	59	5.616	5.616	0.000	98	1408237	10.0	10.4	

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	5.824	5.824	0.000	100	1076984	100.0	113.5	
42 cis-1,2-Dichloroethene	96	5.854	5.854	0.000	82	547319	10.0	10.4	
43 2,2-Dichloropropane	77	5.866	5.866	0.000	88	748609	10.0	10.3	
44 Propionitrile	54	5.903	5.903	0.000	99	584907	200.0	201.1	
47 Methacrylonitrile	67	6.122	6.122	0.000	91	1175144	100.0	108.1	
48 Chlorobromomethane	128	6.190	6.190	0.000	94	228390	10.0	10.3	
49 Tetrahydrofuran	71	6.208	6.208	0.000	78	155153	50.0	55.6	
50 Chloroform	83	6.342	6.342	0.000	93	899884	10.0	10.3	
\$ 52 Dibromofluoromethane (Surr)	113	6.561	6.561	0.000	94	534478	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.574	6.574	0.000	98	773530	10.0	10.4	
54 Cyclohexane	56	6.677	6.677	0.000	90	796170	10.0	10.8	
56 Carbon tetrachloride	117	6.787	6.787	0.000	96	682958	10.0	10.5	
55 1,1-Dichloropropene	75	6.793	6.793	0.000	96	691520	10.0	10.4	
57 Isobutyl alcohol	41	6.945	6.945	0.000	94	294776	500.0	580.3	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.025	7.025	0.000	92	107624	10.0	9.87	
59 Benzene	78	7.055	7.055	0.000	97	2097432	10.0	10.4	
60 1,2-Dichloroethane	62	7.128	7.128	0.000	97	547413	10.0	10.4	
63 Tert-amyl methyl ether	73	7.256	7.256	0.000	99	1237336	10.0	10.4	
* 64 Fluorobenzene (IS)	96	7.470	7.470	0.000	98	2179990	10.0	10.0	
65 n-Heptane	43	7.482	7.482	0.000	93	587317	10.0	10.6	
67 n-Butanol	56	7.848	7.848	0.000	88	402360	875.0	887.1	
68 Trichloroethene	95	7.957	7.957	0.000	98	552202	10.0	10.4	
69 Methylcyclohexane	83	8.268	8.268	0.000	92	819028	10.0	10.9	
70 1,2-Dichloropropane	63	8.287	8.287	0.000	86	530100	10.0	10.5	
71 2-ethoxy-2-methyl butane	87	8.305	8.305	0.000	92	788076	10.0	10.6	
72 Methyl methacrylate	69	8.378	8.378	0.000	88	228062	10.0	11.2	
73 1,4-Dioxane	88	8.390	8.390	0.000	32	47428	500.0	513.7	M
74 Dibromomethane	93	8.403	8.403	0.000	95	247699	10.0	10.5	
76 Dichlorobromomethane	83	8.634	8.634	0.000	99	642408	10.0	10.5	
77 2-Nitropropane	41	8.902	8.902	0.000	98	345002	50.0	51.6	
79 1-Bromo-2-chloroethane	63	9.037	9.037	0.000	99	495195	10.0	11.1	
80 cis-1,3-Dichloropropene	75	9.201	9.201	0.000	96	808503	10.0	10.8	
82 4-Methyl-2-pentanone (MIBK)	43	9.384	9.384	0.000	97	2827093	100.0	106.5	
\$ 83 Toluene-d8 (Surr)	98	9.524	9.524	0.000	94	2134408	10.0	10.1	
84 Toluene	92	9.604	9.604	0.000	98	1340114	10.0	10.4	
85 trans-1,3-Dichloropropene	75	9.872	9.872	0.000	93	652095	10.0	10.8	
104 Ethyl methacrylate	69	9.945	9.945	0.000	89	498734	10.0	11.5	
106 1,1,2-Trichloroethane	97	10.085	10.085	0.000	91	349512	10.0	10.2	
107 Tetrachloroethene	166	10.177	10.177	0.000	98	624529	10.0	10.4	
108 1,3-Dichloropropane	76	10.250	10.250	0.000	90	617884	10.0	10.6	
109 2-Hexanone	43	10.305	10.305	0.000	96	1918103	100.0	109.3	
111 Chlorodibromomethane	129	10.469	10.469	0.000	90	453939	10.0	10.7	
112 Ethylene Dibromide	107	10.585	10.585	0.000	98	343565	10.0	10.8	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	1632214	10.0	10.0	
114 1-Chlorohexane	91	11.036	11.036	0.000	97	733881	10.0	10.2	
115 Chlorobenzene	112	11.054	11.054	0.000	95	1485707	10.0	10.5	
116 1,1,1,2-Tetrachloroethane	131	11.134	11.134	0.000	96	525952	10.0	10.6	
117 Ethylbenzene	91	11.140	11.140	0.000	98	2641863	10.0	10.6	
119 m-Xylene & p-Xylene	106	11.262	11.262	0.000	100	2032315	20.0	21.4	
120 o-Xylene	106	11.591	11.591	0.000	97	992658	10.0	10.6	
121 Styrene	104	11.609	11.609	0.000	94	1632673	10.0	11.2	
122 Bromoform	173	11.768	11.768	0.000	98	281032	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	11.896	11.896	0.000	96	2432389	10.0	10.8	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	92	804668	10.0	10.2	
127 1,1,2,2-Tetrachloroethane	83	12.146	12.146	0.000	92	437490	10.0	10.5	
128 Bromobenzene	156	12.158	12.158	0.000	97	625710	10.0	10.3	
129 trans-1,4-Dichloro-2-butene	53	12.170	12.170	0.000	91	1159365	100.0	109.0	
130 1,2,3-Trichloropropane	110	12.188	12.188	0.000	79	113942	10.0	10.5	
131 N-Propylbenzene	91	12.231	12.231	0.000	99	3062153	10.0	10.5	
132 2-Chlorotoluene	126	12.304	12.304	0.000	97	629303	10.0	10.6	
133 1,3,5-Trimethylbenzene	105	12.365	12.365	0.000	94	2188011	10.0	10.7	
134 4-Chlorotoluene	126	12.396	12.396	0.000	98	638169	10.0	10.6	
135 tert-Butylbenzene	134	12.609	12.609	0.000	93	476317	10.0	10.4	
136 Pentachloroethane	167	12.640	12.640	0.000	93	368744	10.0	11.6	
137 1,2,4-Trimethylbenzene	105	12.652	12.652	0.000	97	2208421	10.0	10.8	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	2710113	10.0	10.7	
139 1,3-Dichlorobenzene	146	12.871	12.871	0.000	98	1224157	10.0	10.7	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	2383370	10.0	11.0	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	94	922380	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.950	12.950	0.000	95	1240941	10.0	10.5	
143 1,2,3-Trimethylbenzene	120	12.957	12.957	0.000	99	971057	10.0	10.5	
144 Benzyl chloride	126	13.024	13.024	0.000	99	187101	10.0	11.7	
145 p-Diethylbenzene	119	13.158	13.158	0.000	93	1396089	10.0	11.0	M
146 n-Butylbenzene	92	13.176	13.176	0.000	96	1121539	10.0	11.3	
147 1,2-Dichlorobenzene	146	13.206	13.206	0.000	98	1097357	10.0	10.5	
149 1,2-Dibromo-3-Chloropropane	155	13.755	13.755	0.000	88	61851	10.0	11.1	
150 1,3,5-Trichlorobenzene	180	13.877	13.877	0.000	98	870172	10.0	11.1	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	726353	10.0	11.8	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	95	251887	10.0	10.9	
153 Naphthalene	128	14.481	14.481	0.000	97	1218640	10.0	11.8	
154 1,2,3-Trichlorobenzene	180	14.621	14.621	0.000	95	574468	10.0	11.6	
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_00137	Amount Added: 10.00	Units: uL	
MSV_LL_GAS826_00220	Amount Added: 10.00	Units: uL	
MSV_LL_#2_826_00144	Amount Added: 10.00	Units: uL	
MSV_LLcentISS_00012	Amount Added: 5.00	Units: uL	Run Reagent

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X17.D

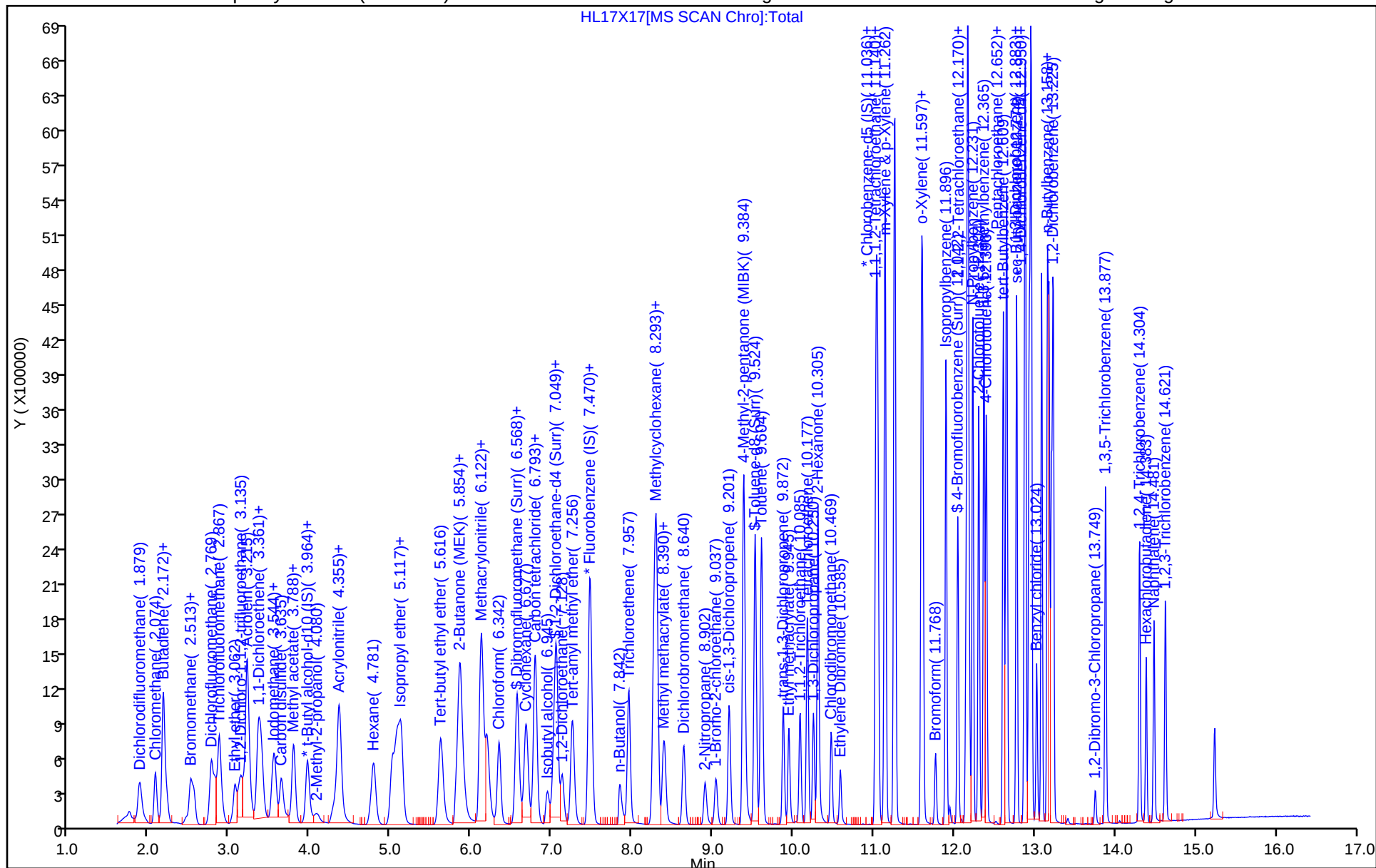
Operator ID: knk41612

Worklist Smp#: 18

ALS Bottle#: 17

Limit Group: MSV - 8260C D

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



Eurofins Lancaster Laboratories Environment Testing, LLC

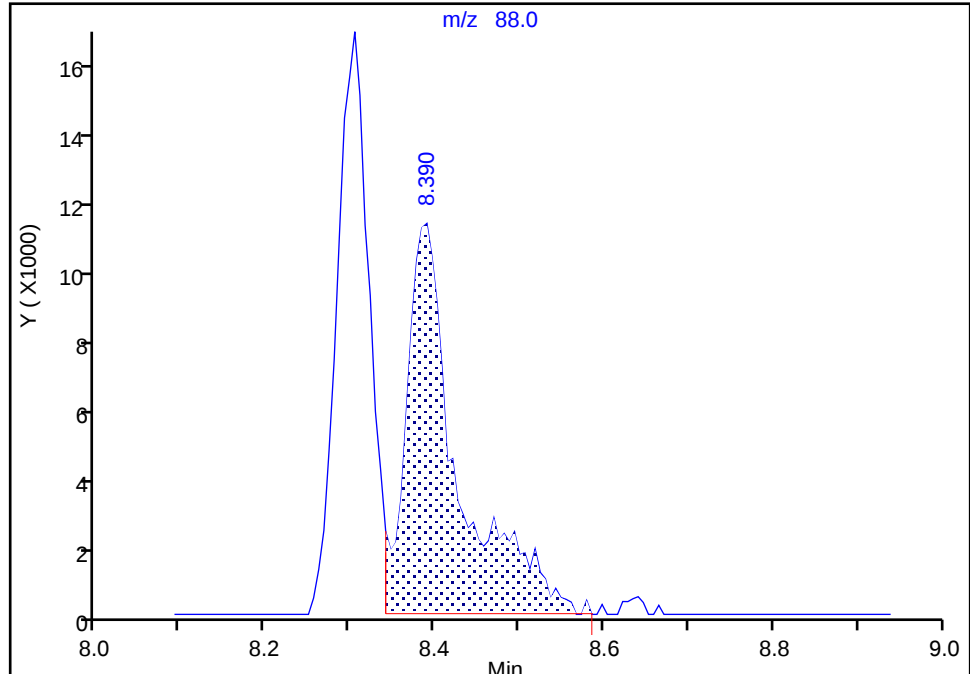
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X17.D
Injection Date: 17-Jul-2024 19:14:30 Instrument ID: 19094
Lims ID: ICIS 10
Client ID:
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

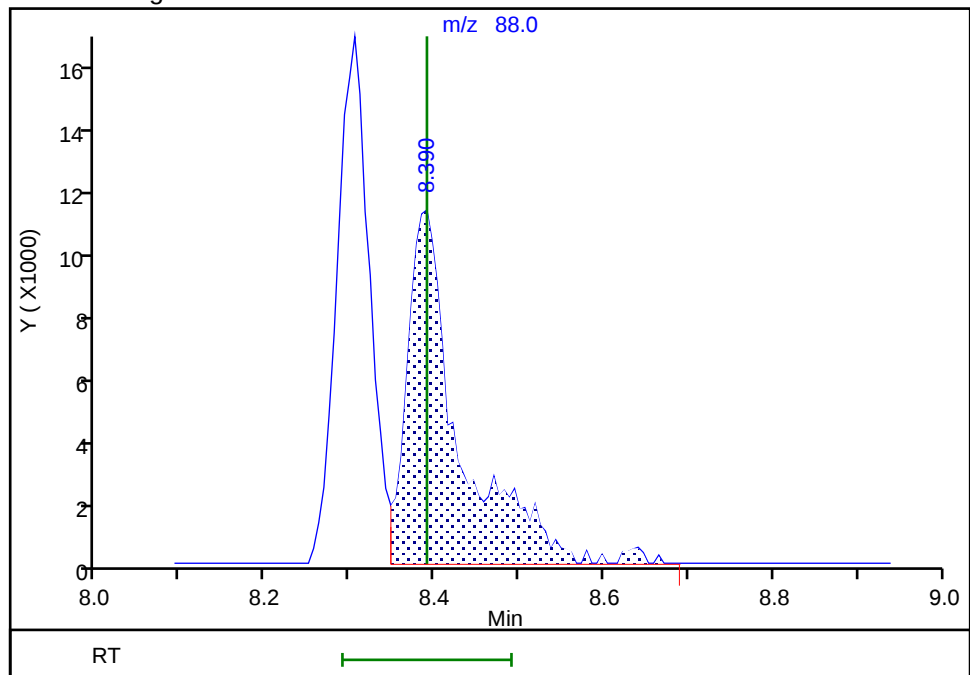
RT: 8.39
Area: 47358
Amount: 535.5925
Amount Units: ug/l

Processing Integration Results



RT: 8.39
Area: 47428
Amount: 513.7094
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 09:02:51 -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\20240717-119602.b\HL17X18.D
 Lims ID: IC std7 25
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 17-Jul-2024 19:35:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119602-019
 Misc. Info.: IC std7 25
 Operator ID: knk41612 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 18-Jul-2024 22:32:16 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1666

First Level Reviewer: DVW2

Date: 18-Jul-2024 08:16:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.873	1.879	-0.006	99	1390259	25.0	24.4	
5 Chloromethane	50	2.068	2.074	-0.006	99	1679210	25.0	23.6	
7 Butadiene	39	2.166	2.166	0.000	90	1555751	25.0	25.6	
6 Vinyl chloride	62	2.178	2.178	0.000	98	1591540	25.0	24.4	
9 Bromomethane	94	2.507	2.513	-0.006	91	1163825	25.0	25.5	
10 Chloroethane	64	2.550	2.550	0.000	100	956602	25.0	25.1	
11 Dichlorofluoromethane	67	2.763	2.769	-0.006	97	2580407	25.0	24.6	
12 Trichlorofluoromethane	101	2.867	2.867	0.000	96	1932750	25.0	24.6	
14 Ethyl ether	59	3.056	3.056	0.000	92	772815	25.0	26.1	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.135	3.135	0.000	96	1412036	25.0	24.2	
16 Acrolein	56	3.208	3.215	-0.006	99	6650715	1252.7	1454.9	
17 1,1-Dichloroethene	96	3.349	3.349	0.000	98	1005469	25.0	24.9	
19 Acetone	43	3.367	3.367	0.000	100	1448343	250.0	253.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.385	3.391	-0.006	92	1032485	25.0	26.0	
21 Iodomethane	142	3.532	3.532	0.000	98	2023940	25.0	25.2	
22 Ethyl bromide	108	3.556	3.556	0.000	99	903862	25.0	25.2	
23 Carbon disulfide	76	3.635	3.635	0.000	99	2908751	25.0	25.3	
24 Methyl acetate	43	3.757	3.769	-0.012	97	432127	25.0	27.9	M
26 3-Chloro-1-propene	41	3.788	3.788	0.000	91	1788984	25.0	25.4	
27 Methylene Chloride	84	3.964	3.964	0.000	92	1180149	25.0	23.5	
* 28 t-Butyl alcohol-d10 (IS)	65	3.952	3.970	-0.018	97	107501	50.0	50.0	
29 2-Methyl-2-propanol	59	4.074	4.080	-0.006	100	758970	500.0	482.7	
31 Acrylonitrile	53	4.275	4.281	-0.006	98	548794	62.5	70.8	
32 Methyl tert-butyl ether	73	4.342	4.348	-0.006	95	2778282	25.0	25.0	
33 trans-1,2-Dichloroethene	96	4.355	4.361	-0.006	99	1199328	25.0	25.4	
34 Hexane	57	4.781	4.787	-0.006	92	1485686	25.0	26.7	
36 1,1-Dichloroethane	63	5.013	5.013	0.000	96	2271882	25.0	25.2	
37 Isopropyl ether	45	5.074	5.074	0.000	95	3830292	25.0	25.7	
38 2-Chloro-1,3-butadiene	53	5.123	5.129	-0.006	91	1884751	25.0	26.4	
40 Tert-butyl ethyl ether	59	5.616	5.616	0.000	98	3508822	25.0	25.3	

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	5.818	5.824	-0.006	100	2730512	250.0	289.0	
42 cis-1,2-Dichloroethene	96	5.854	5.854	0.000	82	1376940	25.0	25.6	
43 2,2-Dichloropropane	77	5.866	5.866	0.000	87	1868801	25.0	24.9	
44 Propionitrile	54	5.897	5.903	-0.006	99	1515126	500.0	516.7	
47 Methacrylonitrile	67	6.122	6.122	0.000	91	3001946	250.0	277.4	
S 46 1,2-Dichloroethene, Total	100				0			51.0	
48 Chlorobromomethane	128	6.190	6.190	0.000	95	576871	25.0	25.4	
49 Tetrahydrofuran	71	6.208	6.208	0.000	81	399453	125.0	143.7	
50 Chloroform	83	6.342	6.342	0.000	93	2246519	25.0	25.1	
\$ 52 Dibromofluoromethane (Surr)	113	6.561	6.561	0.000	94	547498	10.0	9.99	
53 1,1,1-Trichloroethane	97	6.574	6.574	0.000	98	1934110	25.0	25.3	
54 Cyclohexane	56	6.677	6.677	0.000	90	1980148	25.0	26.2	
56 Carbon tetrachloride	117	6.793	6.787	0.006	81	1717084	25.0	25.8	
55 1,1-Dichloropropene	75	6.793	6.793	0.000	96	1751486	25.0	25.8	
57 Isobutyl alcohol	41	6.939	6.945	-0.006	94	731832	1250.0	1447.2	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.025	7.025	0.000	92	111324	10.0	9.94	
59 Benzene	78	7.055	7.055	0.000	96	5276356	25.0	25.6	
60 1,2-Dichloroethane	62	7.128	7.128	0.000	98	1330758	25.0	24.6	
63 Tert-amyl methyl ether	73	7.256	7.256	0.000	99	3115580	25.0	25.5	
* 64 Fluorobenzene (IS)	96	7.464	7.470	-0.006	99	2238426	10.0	10.0	
65 n-Heptane	43	7.482	7.482	0.000	93	1494791	25.0	26.3	
67 n-Butanol	56	7.842	7.848	-0.006	87	1014924	2187.5	2188.3	
68 Trichloroethene	95	7.951	7.957	-0.006	99	1392945	25.0	25.7	
69 Methylcyclohexane	83	8.268	8.268	0.000	91	2060812	25.0	26.8	
70 1,2-Dichloropropane	63	8.287	8.287	0.000	97	1354768	25.0	26.0	
71 2-ethoxy-2-methyl butane	87	8.305	8.305	0.000	93	2011538	25.0	26.3	
72 Methyl methacrylate	69	8.378	8.378	0.000	90	596211	25.0	29.3	
73 1,4-Dioxane	88	8.384	8.390	-0.006	36	107802	1250.0	1248.4	M
74 Dibromomethane	93	8.396	8.403	-0.007	96	633709	25.0	26.2	
76 Dichlorobromomethane	83	8.640	8.634	0.006	99	1638596	25.0	26.0	
77 2-Nitropropane	41	8.902	8.902	0.000	98	872051	125.0	131.0	
79 1-Bromo-2-chloroethane	63	9.037	9.037	0.000	99	1227279	25.0	26.8	
80 cis-1,3-Dichloropropene	75	9.201	9.201	0.000	96	2061318	25.0	26.9	
82 4-Methyl-2-pentanone (MIBK)	43	9.384	9.384	0.000	96	7262315	250.0	274.9	
\$ 83 Toluene-d8 (Surr)	98	9.524	9.524	0.000	93	2206861	10.0	10.1	
84 Toluene	92	9.604	9.604	0.000	98	3402986	25.0	25.6	
85 trans-1,3-Dichloropropene	75	9.872	9.872	0.000	93	1689983	25.0	27.2	
104 Ethyl methacrylate	69	9.945	9.945	0.000	89	1314201	25.0	29.3	
S 105 1,3-Dichloropropene, Total	100				0			54.1	
106 1,1,2-Trichloroethane	97	10.085	10.085	0.000	90	886188	25.0	25.1	
107 Tetrachloroethene	166	10.177	10.177	0.000	98	1569688	25.0	25.4	
108 1,3-Dichloropropane	76	10.250	10.250	0.000	90	1567708	25.0	26.1	
109 2-Hexanone	43	10.305	10.305	0.000	96	4939746	250.0	282.8	
111 Chlorodibromomethane	129	10.469	10.469	0.000	90	1171893	25.0	26.8	
112 Ethylene Dibromide	107	10.585	10.585	0.000	99	867822	25.0	26.4	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1683257	10.0	10.0	
114 1-Chlorohexane	91	11.036	11.036	0.000	97	1855929	25.0	25.0	
115 Chlorobenzene	112	11.048	11.054	-0.006	95	3730004	25.0	25.5	
116 1,1,1,2-Tetrachloroethane	131	11.134	11.134	0.000	96	1339564	25.0	26.2	
117 Ethylbenzene	91	11.140	11.140	0.000	99	6744183	25.0	26.1	
S 118 Xylenes, Total	106				0			79.1	
119 m-Xylene & p-Xylene	106	11.262	11.262	0.000	100	5180338	50.0	52.8	

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	11.591	11.591	0.000	97	2535817	25.0	26.2	
121 Styrene	104	11.609	11.609	0.000	95	4192983	25.0	28.0	
122 Bromoform	173	11.768	11.768	0.000	98	739939	25.0	27.0	
123 Isopropylbenzene	105	11.896	11.896	0.000	96	6184746	25.0	26.5	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	92	821565	10.0	10.1	
127 1,1,2,2-Tetrachloroethane	83	12.146	12.146	0.000	92	1114431	25.0	25.7	
128 Bromobenzene	156	12.158	12.158	0.000	96	1589303	25.0	25.2	
129 trans-1,4-Dichloro-2-butene	53	12.170	12.170	0.000	91	3008869	250.0	284.2	
130 1,2,3-Trichloropropane	110	12.188	12.188	0.000	81	289878	25.0	25.8	
131 N-Propylbenzene	91	12.231	12.231	0.000	99	7892215	25.0	26.1	
132 2-Chlorotoluene	126	12.304	12.304	0.000	97	1592312	25.0	25.7	
133 1,3,5-Trimethylbenzene	105	12.365	12.365	0.000	94	5599818	25.0	26.4	
134 4-Chlorotoluene	126	12.396	12.396	0.000	98	1638599	25.0	26.2	
135 tert-Butylbenzene	134	12.609	12.609	0.000	93	1220631	25.0	25.7	
136 Pentachloroethane	167	12.640	12.640	0.000	93	923575	25.0	27.9	
137 1,2,4-Trimethylbenzene	105	12.652	12.652	0.000	97	5678638	25.0	26.7	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	6953178	25.0	26.5	
139 1,3-Dichlorobenzene	146	12.871	12.871	0.000	98	3135342	25.0	26.3	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	6079183	25.0	26.9	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	93	959394	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.950	12.950	0.000	94	3114969	25.0	25.2	
143 1,2,3-Trimethylbenzene	120	12.957	12.957	0.000	98	2496878	25.0	26.0	
144 Benzyl chloride	126	13.024	13.024	0.000	99	481305	25.0	28.9	
145 p-Diethylbenzene	119	13.158	13.158	0.000	93	3601409	25.0	27.3	
146 n-Butylbenzene	92	13.176	13.176	0.000	98	2888960	25.0	27.9	
147 1,2-Dichlorobenzene	146	13.206	13.206	0.000	98	2827219	25.0	25.9	
149 1,2-Dibromo-3-Chloropropane	155	13.749	13.755	-0.006	88	163782	25.0	28.3	
150 1,3,5-Trichlorobenzene	180	13.877	13.877	0.000	98	2208226	25.0	27.1	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	1867004	25.0	29.3	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	95	637788	25.0	26.5	
153 Naphthalene	128	14.481	14.481	0.000	97	3184979	25.0	29.8	
154 1,2,3-Trichlorobenzene	180	14.621	14.621	0.000	96	1487843	25.0	29.0	
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_00137

Amount Added: 25.00

Units: uL

MSV_LL_GAS826_00220

Amount Added: 25.00

Units: uL

MSV_LL_#2_826_00144

Amount Added: 25.00

Units: uL

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 18-Jul-2024 22:32:17

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D

Injection Date: 17-Jul-2024 19:35:30

Instrument ID: 19094

Operator ID: knk41612

Lims ID: IC std7 25

Worklist Smp#: 19

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

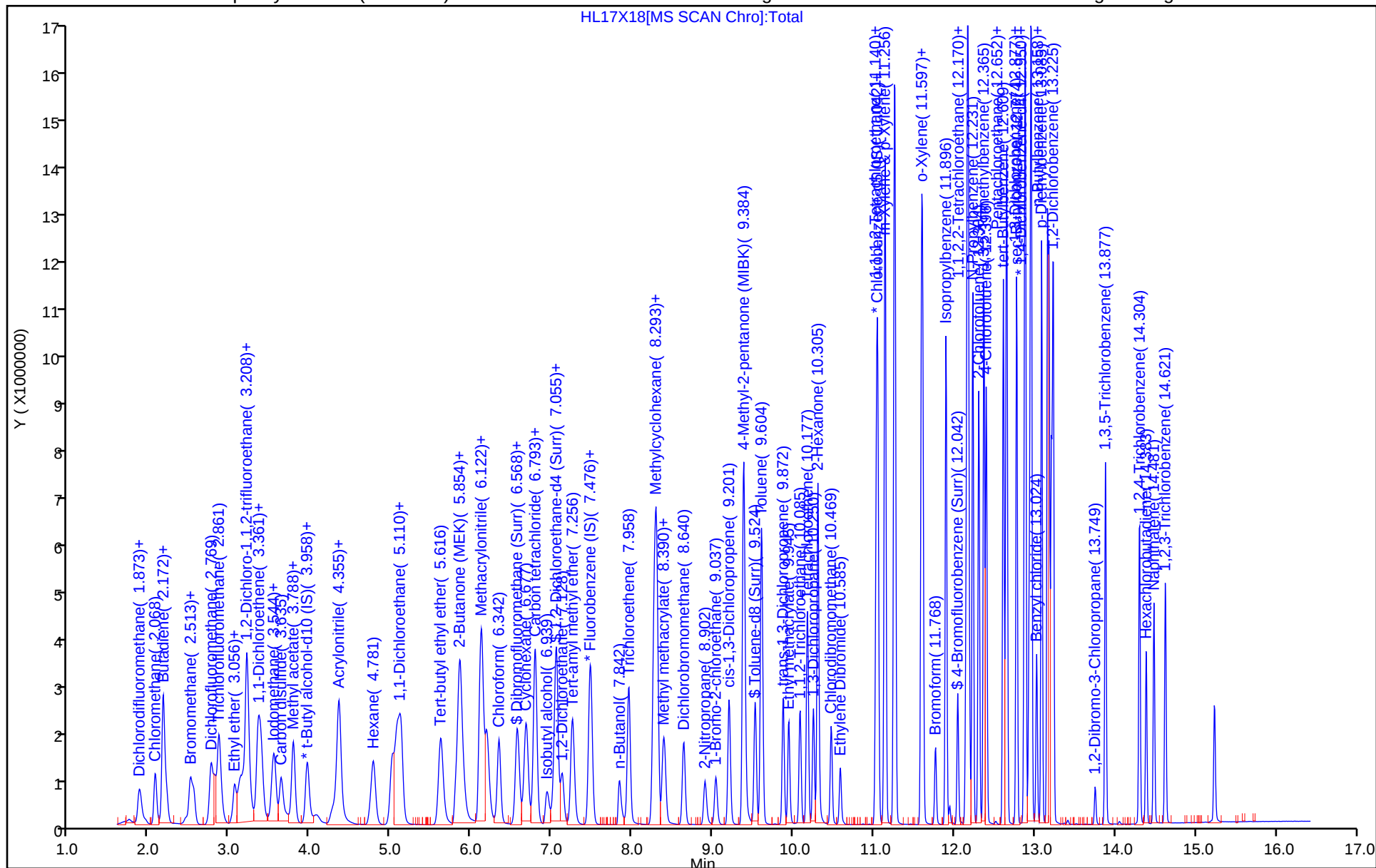
ALS Bottle#: 18

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

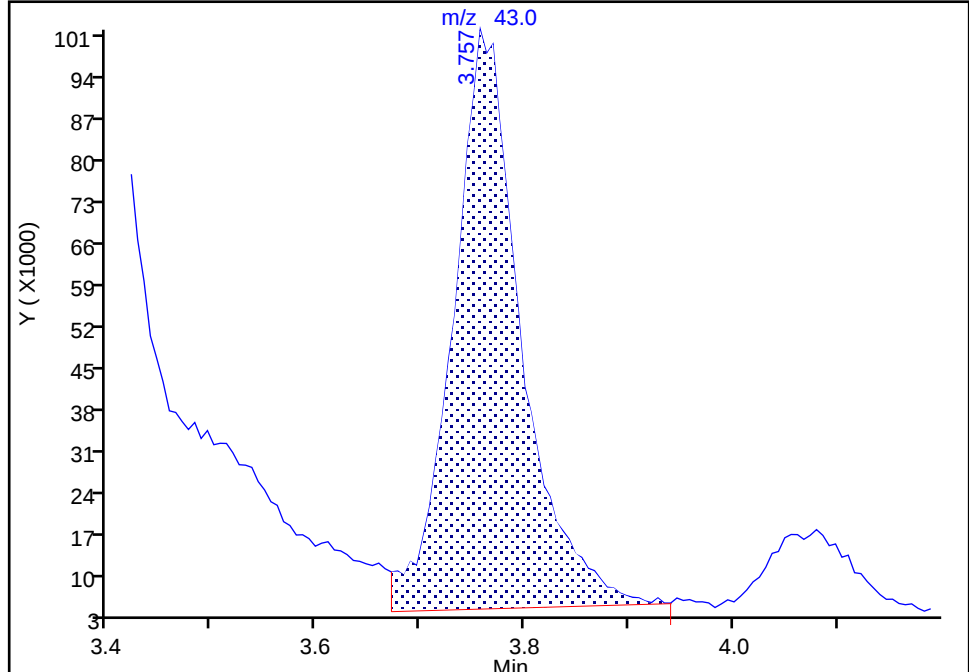
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Injection Date: 17-Jul-2024 19:35:30 Instrument ID: 19094
Lims ID: IC std7 25
Client ID:
Operator ID: knk41612 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

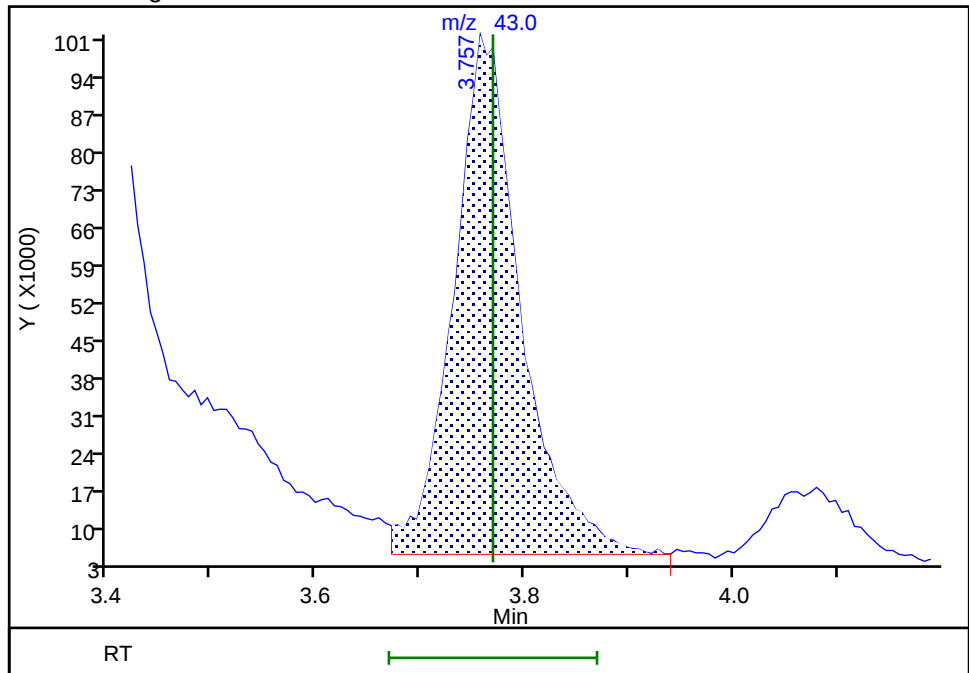
RT: 3.76
Area: 446439
Amount: 28.329286
Amount Units: ug/l

Processing Integration Results



RT: 3.76
Area: 432127
Amount: 27.875704
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:15:56 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

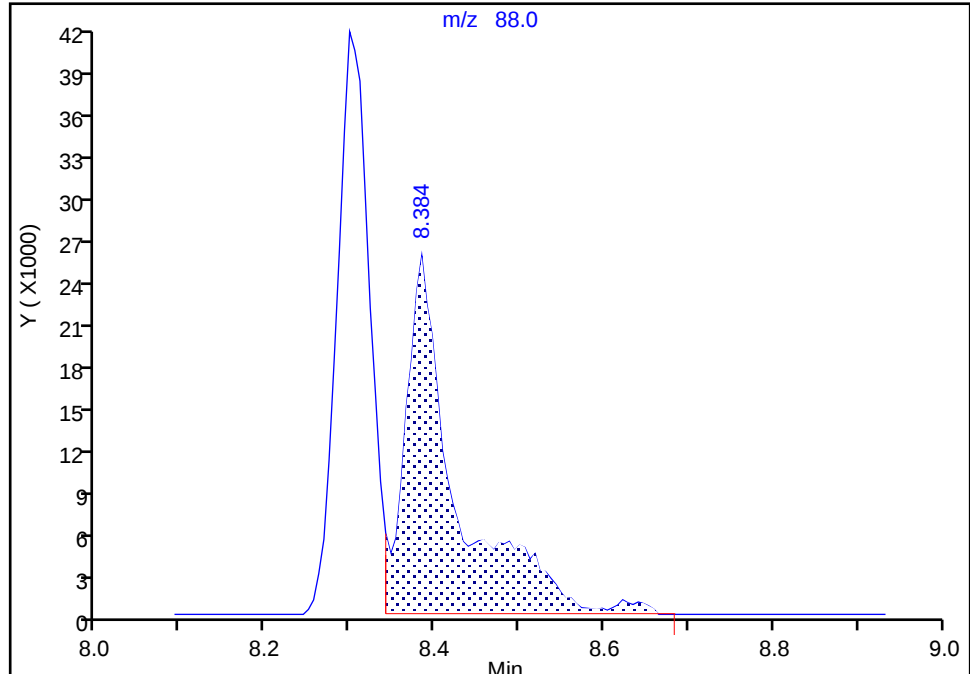
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Injection Date: 17-Jul-2024 19:35:30 Instrument ID: 19094
Lims ID: IC std7 25
Client ID:
Operator ID: knk41612 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

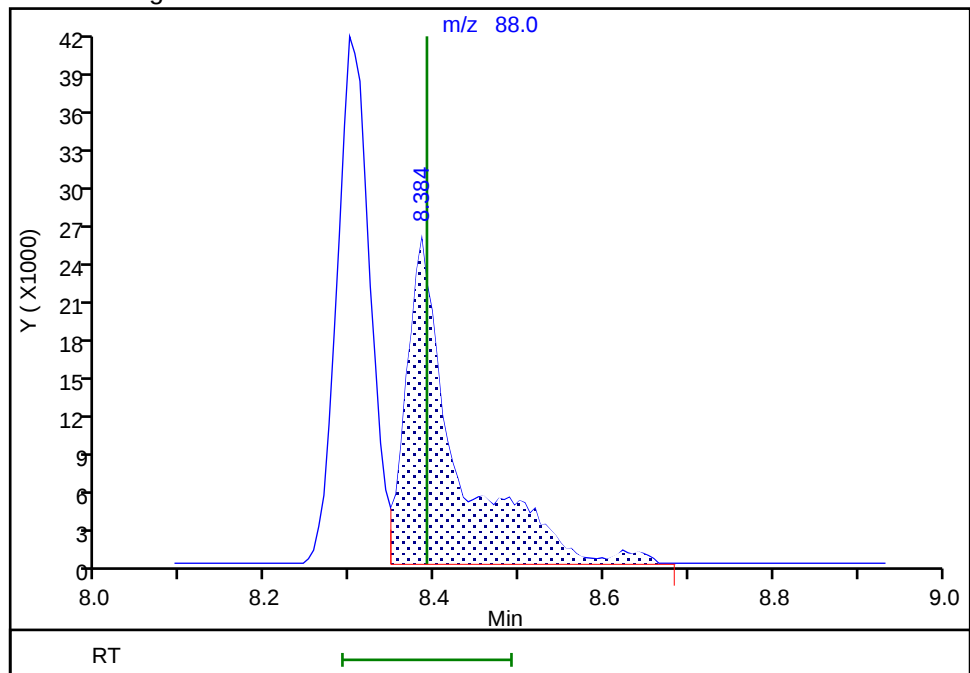
RT: 8.38
Area: 109941
Amount: 1236.9437
Amount Units: ug/l

Processing Integration Results



RT: 8.38
Area: 107802
Amount: 1248.4188
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 09:03:10 -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

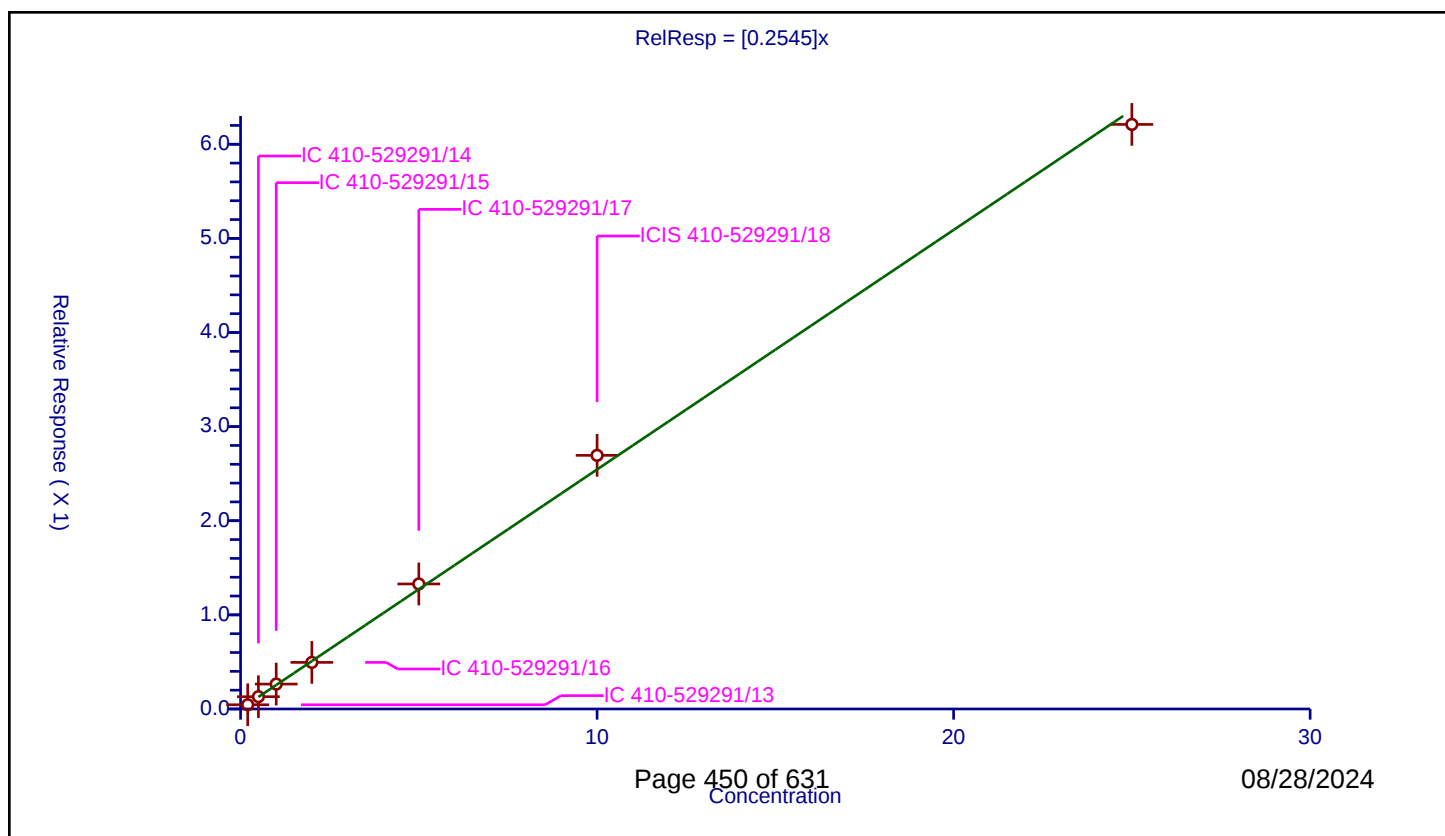
Curve Coefficients

Intercept: 0
Slope: 0.2545

Error Coefficients

Relative Standard Deviation: 6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.044929	10.0	2065681.0	0.224647	Y
2	IC 410-529291/14	0.5	0.130362	10.0	2062328.0	0.260725	Y
3	IC 410-529291/15	1.0	0.264819	10.0	2092414.0	0.264819	Y
4	IC 410-529291/16	2.0	0.495144	10.0	2082929.0	0.247572	Y
5	IC 410-529291/17	5.0	1.328378	10.0	2147537.0	0.265676	Y
6	ICIS 410-529291/18	10.0	2.694838	10.0	2179990.0	0.269484	Y
7	IC 410-529291/19	25.0	6.210878	10.0	2238426.0	0.248435	Y



Calibration

/ Chloromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

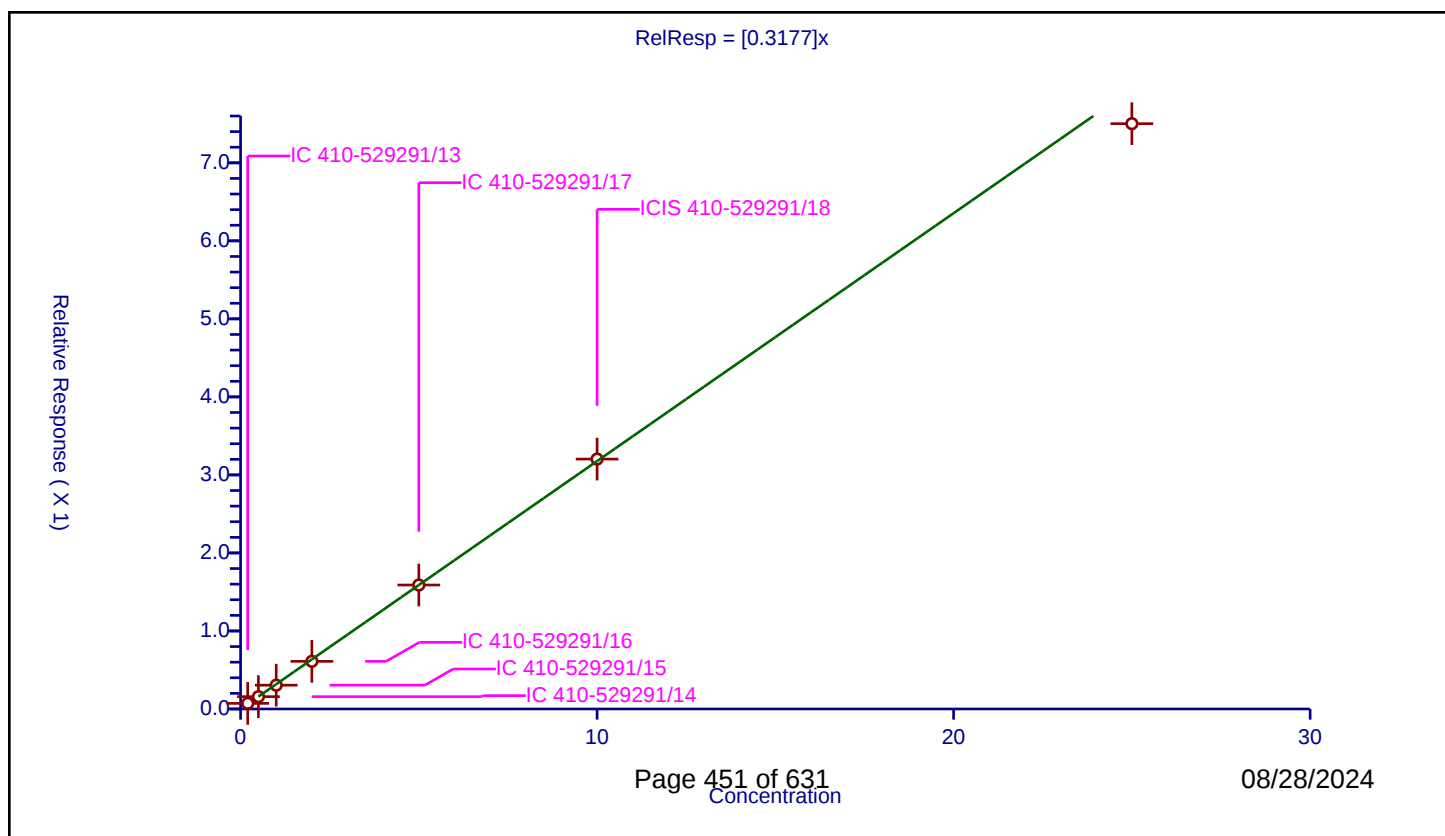
Curve Coefficients

Intercept: 0
Slope: 0.3177

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.071923	10.0	2065681.0	0.359615	Y
2	IC 410-529291/14	0.5	0.157953	10.0	2062328.0	0.315905	Y
3	IC 410-529291/15	1.0	0.305097	10.0	2092414.0	0.305097	Y
4	IC 410-529291/16	2.0	0.610674	10.0	2082929.0	0.305337	Y
5	IC 410-529291/17	5.0	1.588829	10.0	2147537.0	0.317766	Y
6	ICIS 410-529291/18	10.0	3.203129	10.0	2179990.0	0.320313	Y
7	IC 410-529291/19	25.0	7.501745	10.0	2238426.0	0.30007	Y



Calibration

/ Butadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

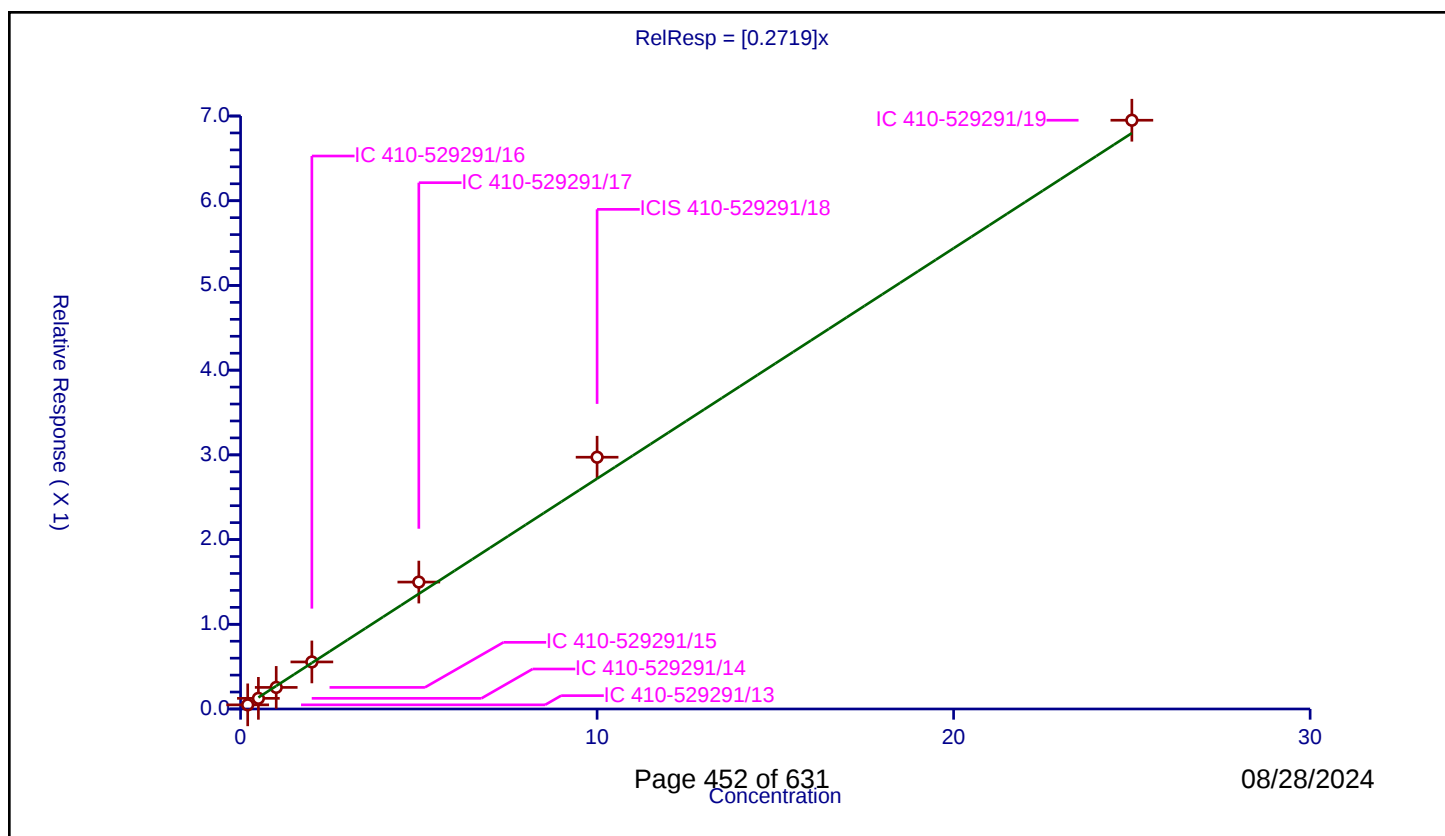
Curve Coefficients

Intercept: 0
Slope: 0.2719

Error Coefficients

Relative Standard Deviation: 8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.048923	10.0	2065681.0	0.244617	Y
2	IC 410-529291/14	0.5	0.125722	10.0	2062328.0	0.251444	Y
3	IC 410-529291/15	1.0	0.254854	10.0	2092414.0	0.254854	Y
4	IC 410-529291/16	2.0	0.555353	10.0	2082929.0	0.277676	Y
5	IC 410-529291/17	5.0	1.498186	10.0	2147537.0	0.299637	Y
6	ICIS 410-529291/18	10.0	2.972215	10.0	2179990.0	0.297222	Y
7	IC 410-529291/19	25.0	6.950201	10.0	2238426.0	0.278008	Y



Calibration

/ Vinyl chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

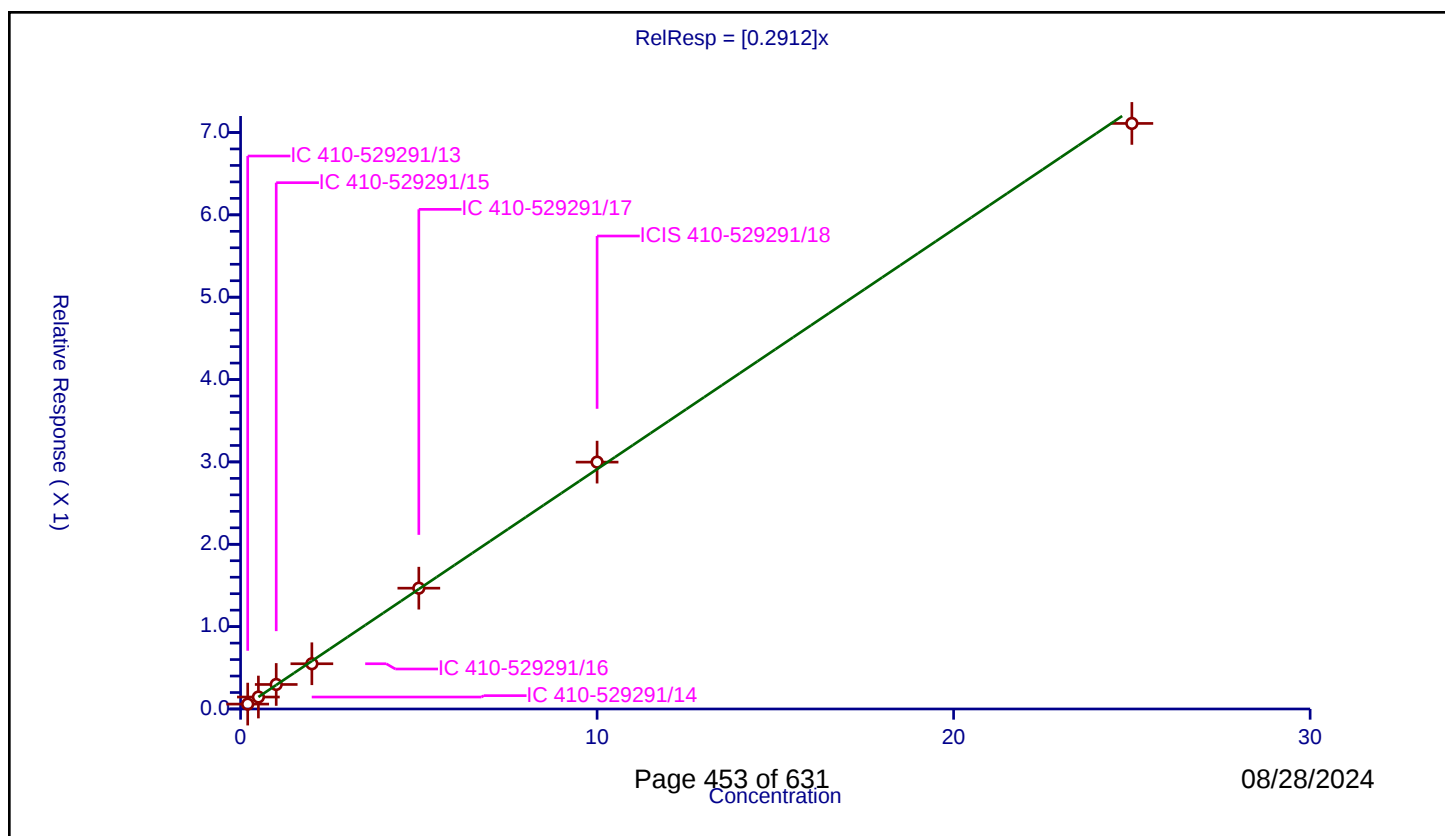
Curve Coefficients

Intercept: 0
 Slope: 0.2912

Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.059545	10.0	2065681.0	0.297723	Y
2	IC 410-529291/14	0.5	0.145248	10.0	2062328.0	0.290497	Y
3	IC 410-529291/15	1.0	0.297866	10.0	2092414.0	0.297866	Y
4	IC 410-529291/16	2.0	0.549159	10.0	2082929.0	0.27458	Y
5	IC 410-529291/17	5.0	1.466811	10.0	2147537.0	0.293362	Y
6	ICIS 410-529291/18	10.0	2.997344	10.0	2179990.0	0.299734	Y
7	IC 410-529291/19	25.0	7.110085	10.0	2238426.0	0.284403	Y



Calibration

/ Bromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

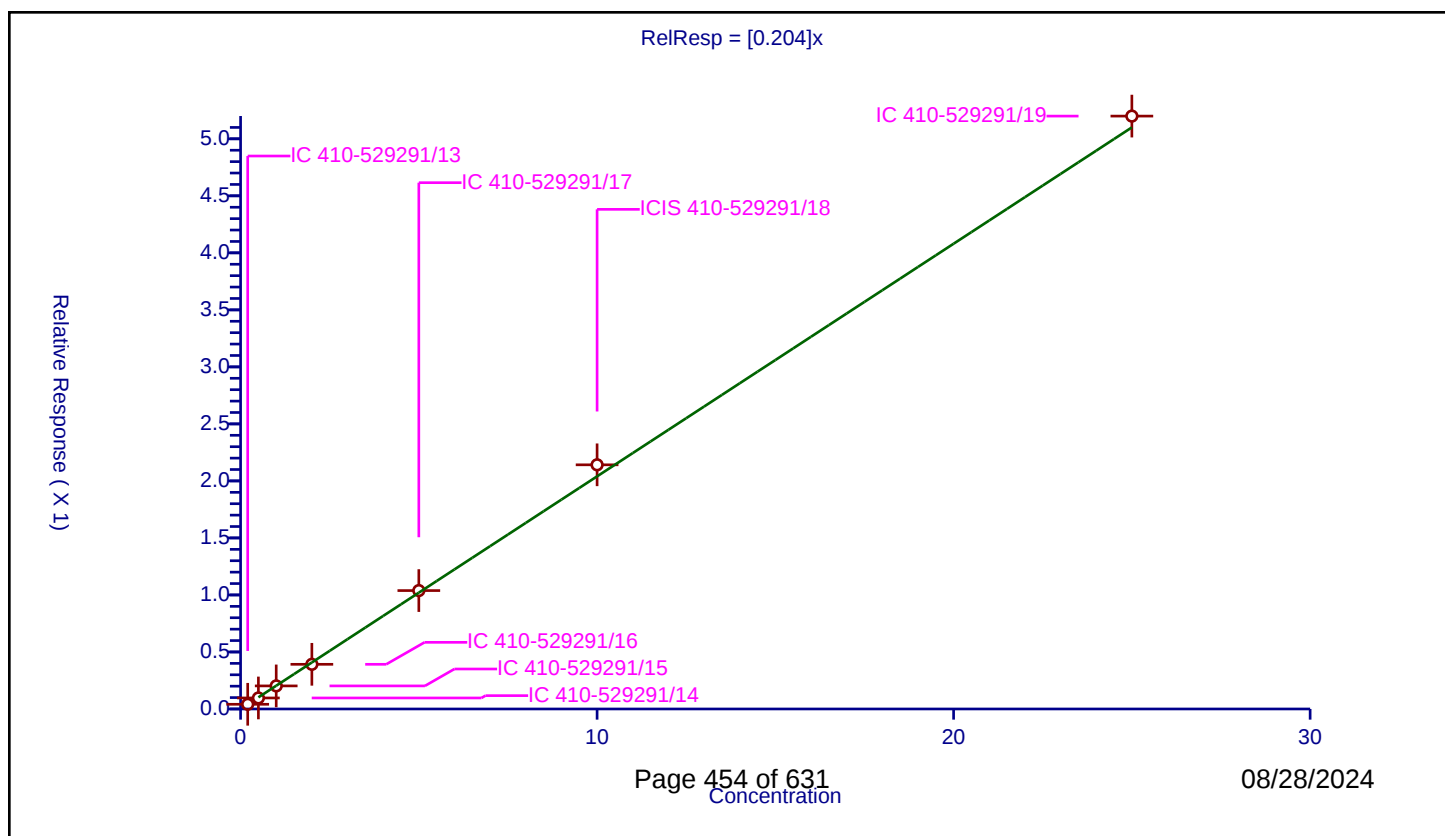
Curve Coefficients

Intercept: 0
Slope: 0.204

Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.041284	10.0	2065681.0	0.206421	Y
2	IC 410-529291/14	0.5	0.096784	10.0	2062328.0	0.193568	Y
3	IC 410-529291/15	1.0	0.202369	10.0	2092414.0	0.202369	Y
4	IC 410-529291/16	2.0	0.391756	10.0	2082929.0	0.195878	Y
5	IC 410-529291/17	5.0	1.038478	10.0	2147537.0	0.207696	Y
6	ICIS 410-529291/18	10.0	2.14118	10.0	2179990.0	0.214118	Y
7	IC 410-529291/19	25.0	5.199301	10.0	2238426.0	0.207972	Y



Calibration

/ Chloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

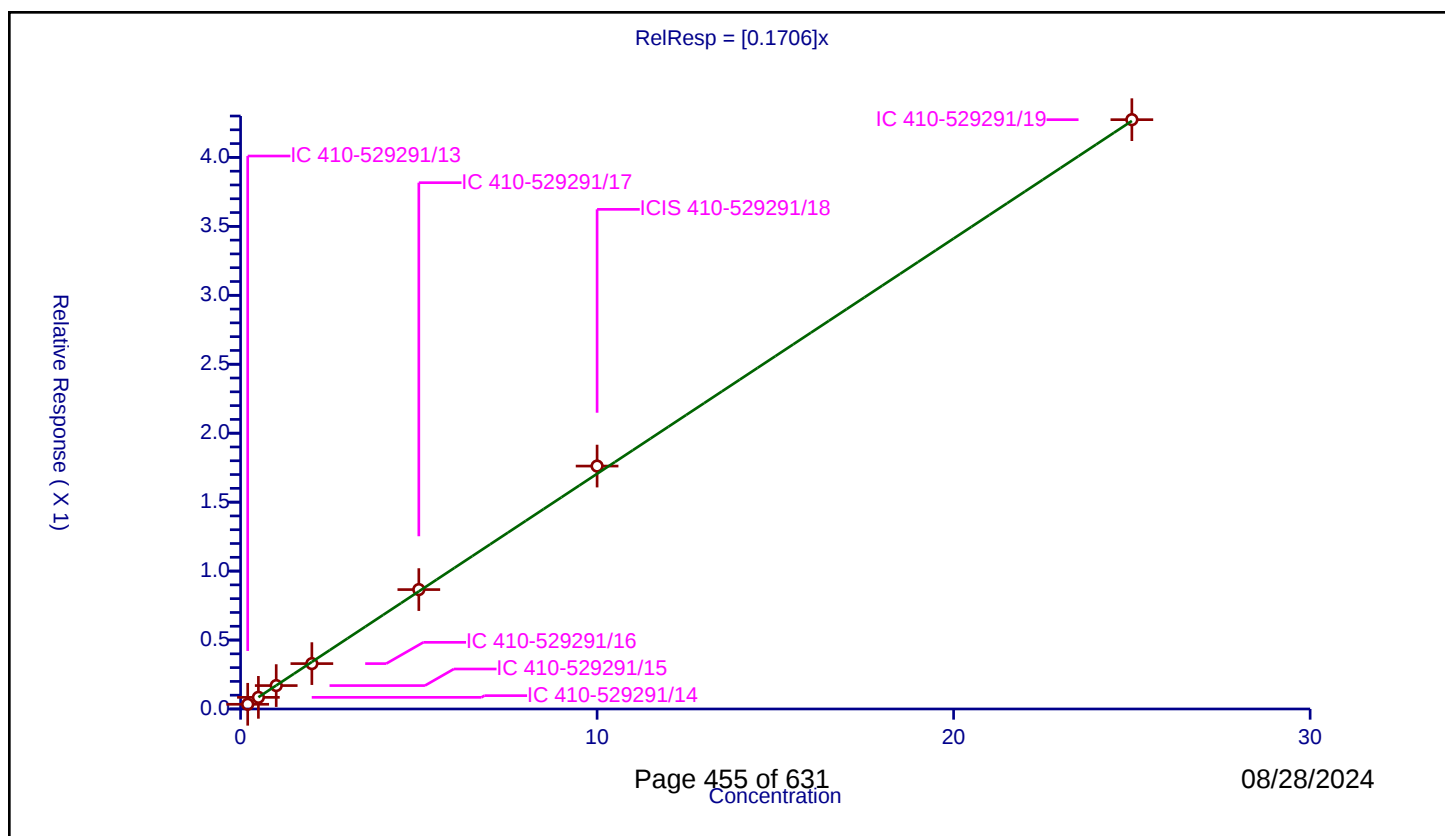
Curve Coefficients

Intercept: 0
Slope: 0.1706

Error Coefficients

Relative Standard Deviation: 2.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.034129	10.0	2065681.0	0.170646	Y
2	IC 410-529291/14	0.5	0.084434	10.0	2062328.0	0.168867	Y
3	IC 410-529291/15	1.0	0.169751	10.0	2092414.0	0.169751	Y
4	IC 410-529291/16	2.0	0.328955	10.0	2082929.0	0.164478	Y
5	IC 410-529291/17	5.0	0.865876	10.0	2147537.0	0.173175	Y
6	ICIS 410-529291/18	10.0	1.761572	10.0	2179990.0	0.176157	Y
7	IC 410-529291/19	25.0	4.273548	10.0	2238426.0	0.170942	Y



Calibration

/ Dichlorofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

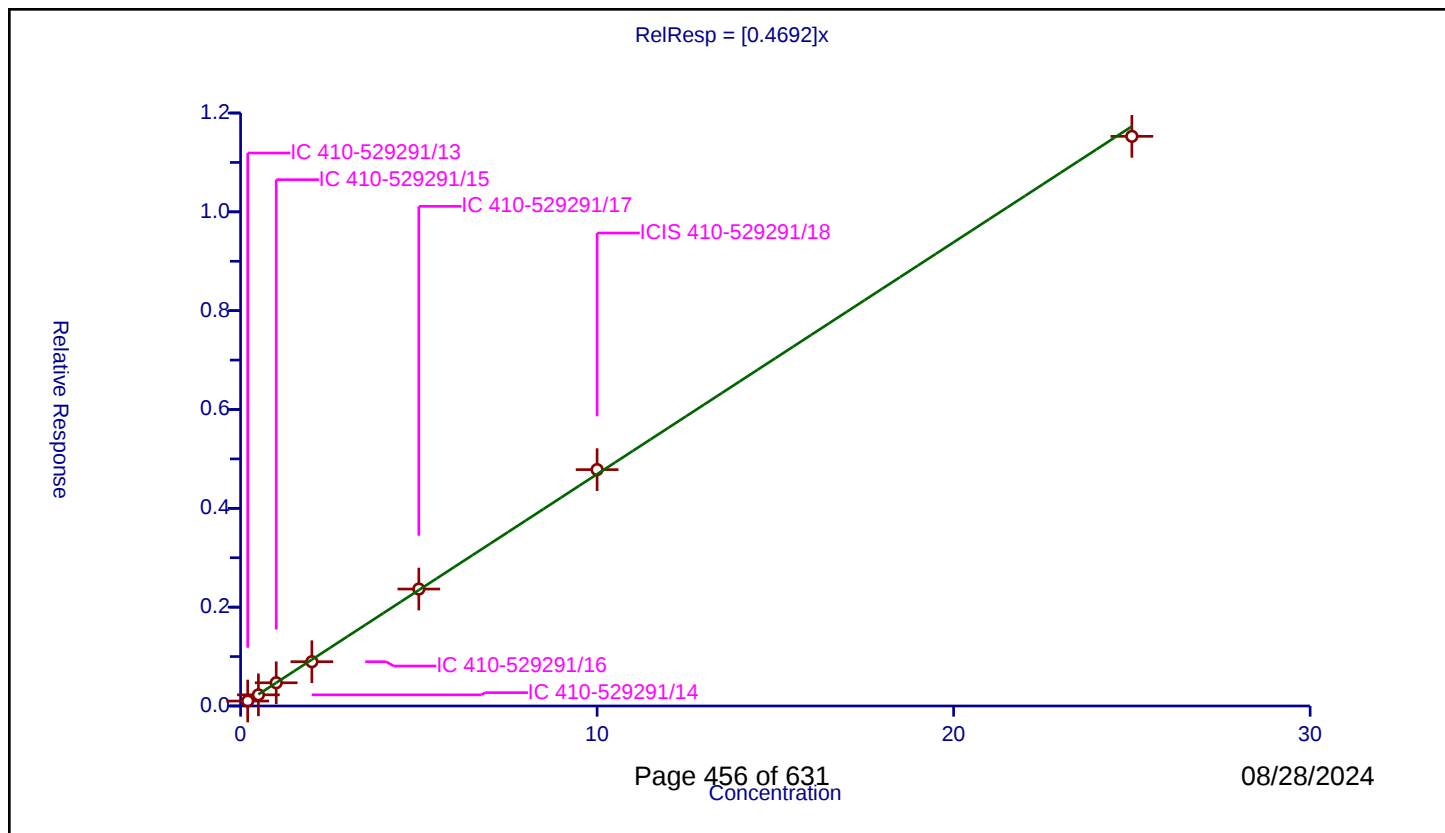
Curve Coefficients

Intercept: 0
 Slope: 0.4692

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.100325	10.0	2065681.0	0.501626	Y
2	IC 410-529291/14	0.5	0.226026	10.0	2062328.0	0.452052	Y
3	IC 410-529291/15	1.0	0.469897	10.0	2092414.0	0.469897	Y
4	IC 410-529291/16	2.0	0.895859	10.0	2082929.0	0.447929	Y
5	IC 410-529291/17	5.0	2.366595	10.0	2147537.0	0.473319	Y
6	ICIS 410-529291/18	10.0	4.782994	10.0	2179990.0	0.478299	Y
7	IC 410-529291/19	25.0	11.527774	10.0	2238426.0	0.461111	Y



Calibration

/ Trichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

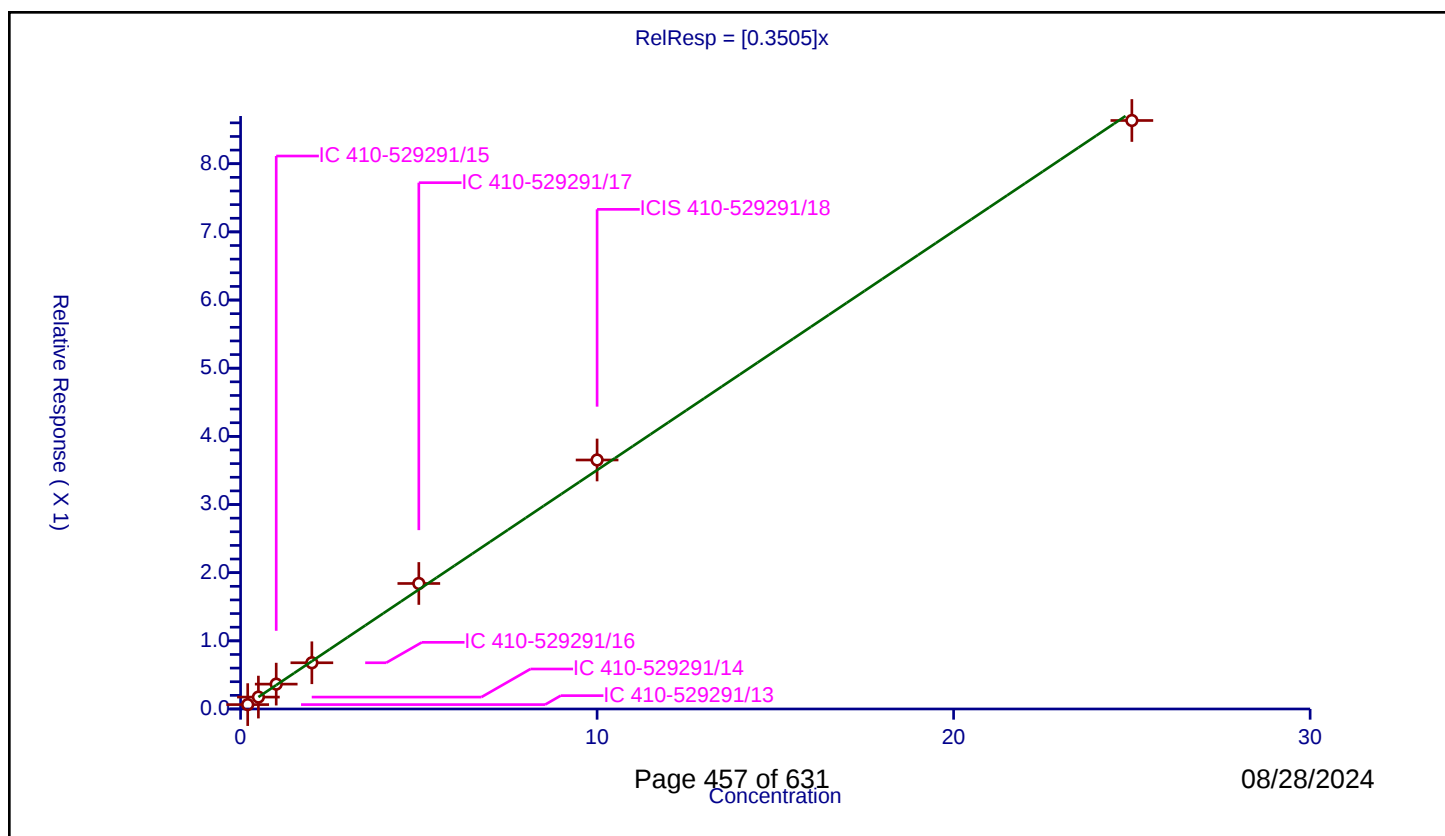
Curve Coefficients

Intercept: 0
Slope: 0.3505

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.064206	10.0	2065681.0	0.321032	Y
2	IC 410-529291/14	0.5	0.174672	10.0	2062328.0	0.349343	Y
3	IC 410-529291/15	1.0	0.364928	10.0	2092414.0	0.364928	Y
4	IC 410-529291/16	2.0	0.678146	10.0	2082929.0	0.339073	Y
5	IC 410-529291/17	5.0	1.841468	10.0	2147537.0	0.368294	Y
6	ICIS 410-529291/18	10.0	3.6532	10.0	2179990.0	0.36532	Y
7	IC 410-529291/19	25.0	8.634415	10.0	2238426.0	0.345377	Y



Calibration

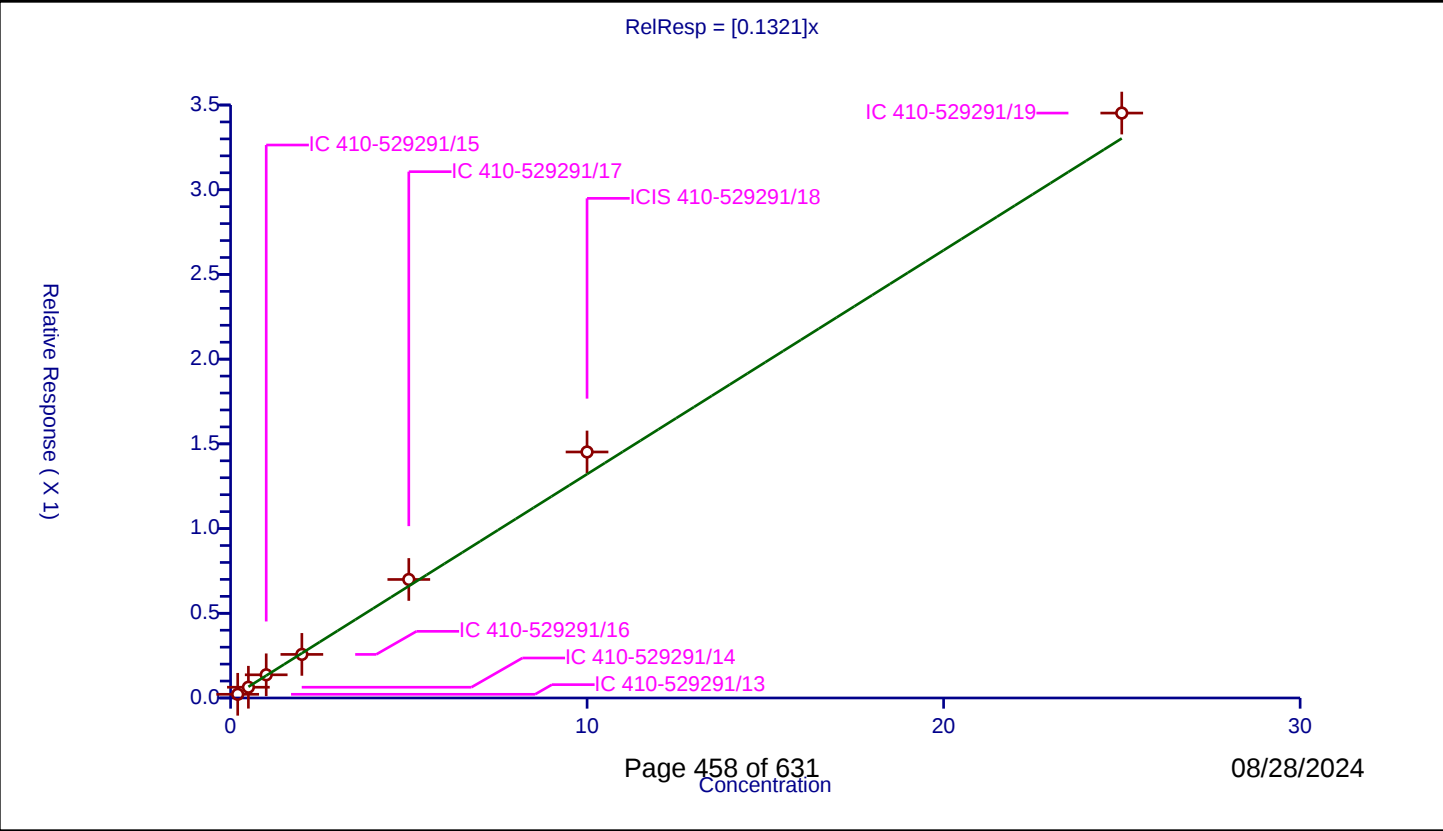
/ Ethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1321

Error Coefficients	
Relative Standard Deviation:	
	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.199979	0.021799	10.0	2065681.0	0.109007	Y
2	IC 410-529291/14	0.499948	0.063569	10.0	2062328.0	0.127151	Y
3	IC 410-529291/15	0.999897	0.136828	10.0	2092414.0	0.136842	Y
4	IC 410-529291/16	1.999794	0.257282	10.0	2082929.0	0.128654	Y
5	IC 410-529291/17	4.999484	0.699494	10.0	2147537.0	0.139913	Y
6	ICIS 410-529291/18	9.998968	1.452103	10.0	2179990.0	0.145225	Y
7	IC 410-529291/19	24.99742	3.452493	10.0	2238426.0	0.138114	Y



Calibration

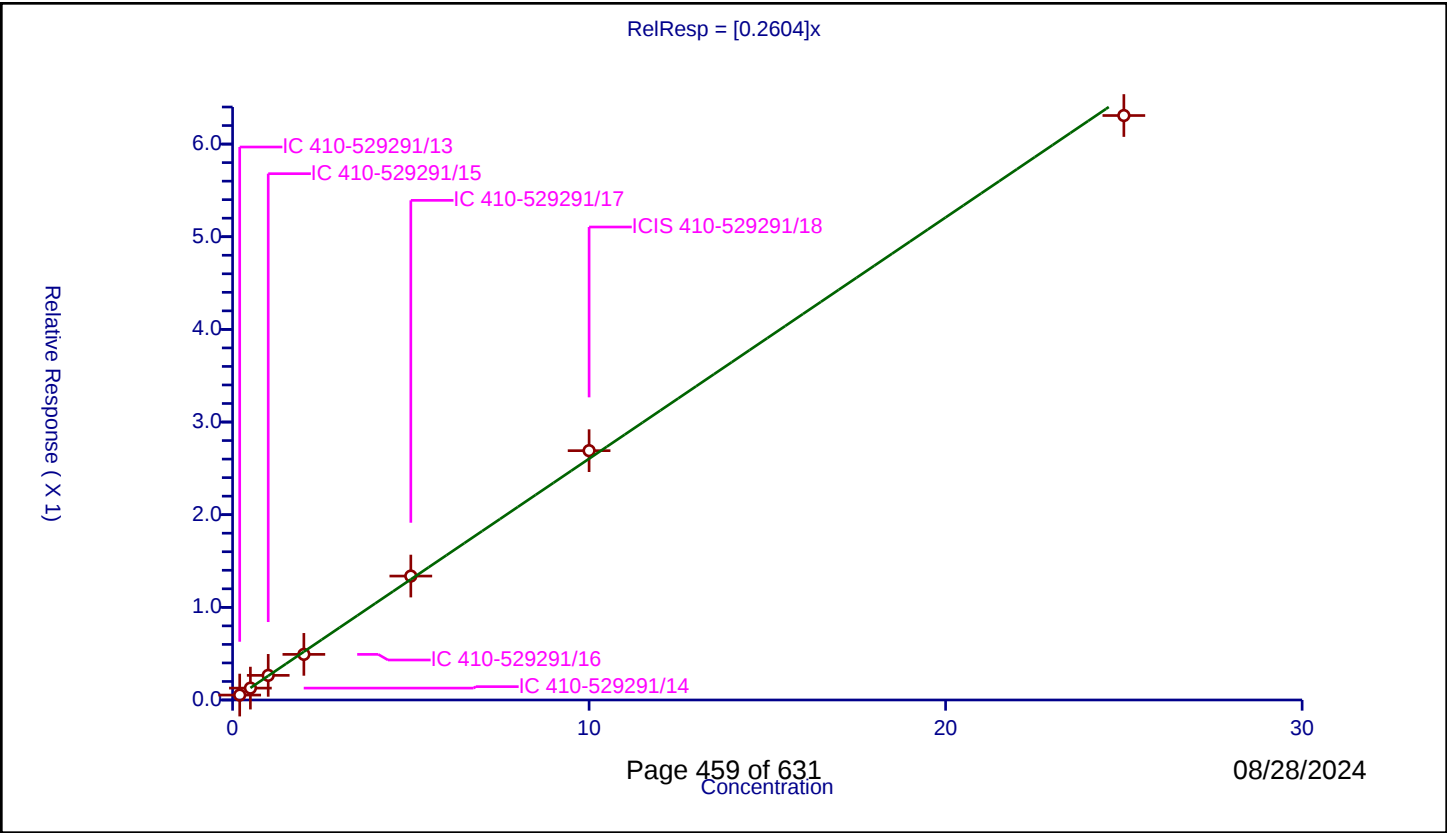
/ 1,2-Dichloro-1,1,2-trifluoroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2604
Error Coefficients	

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.053091	10.0	2065681.0	0.265457	Y
2	IC 410-529291/14	0.5	0.128302	10.0	2062328.0	0.256603	Y
3	IC 410-529291/15	1.0	0.26577	10.0	2092414.0	0.26577	Y
4	IC 410-529291/16	2.0	0.492192	10.0	2082929.0	0.246096	Y
5	IC 410-529291/17	5.0	1.3375	10.0	2147537.0	0.2675	Y
6	ICIS 410-529291/18	10.0	2.690944	10.0	2179990.0	0.269094	Y
7	IC 410-529291/19	25.0	6.308165	10.0	2238426.0	0.252327	Y

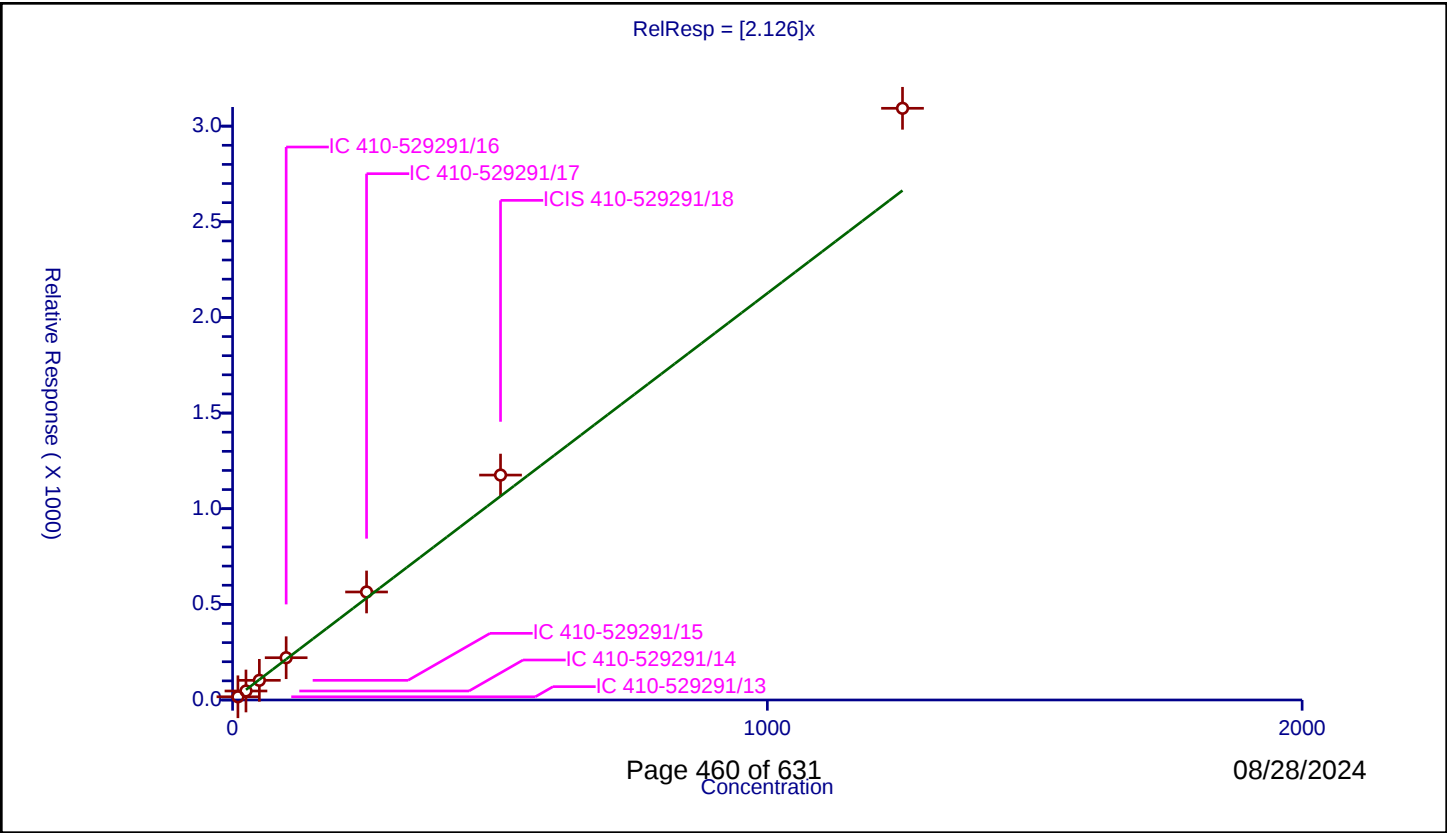


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.126

Error Coefficients	
Relative Standard Deviation:	13.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	10.021748	16.793354	50.0	98405.0	1.675691	Y
2	IC 410-529291/14	25.05437	47.118434	50.0	101542.0	1.880647	Y
3	IC 410-529291/15	50.108739	102.822604	50.0	102122.0	2.051989	Y
4	IC 410-529291/16	100.217479	220.994675	50.0	99711.0	2.205151	Y
5	IC 410-529291/17	250.543697	564.686973	50.0	110278.0	2.253846	Y
6	ICIS 410-529291/18	501.087394	1175.908039	50.0	107980.0	2.346712	Y
7	IC 410-529291/19	1252.718485	3093.327039	50.0	107501.0	2.469291	Y



Calibration

/ 1,1-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

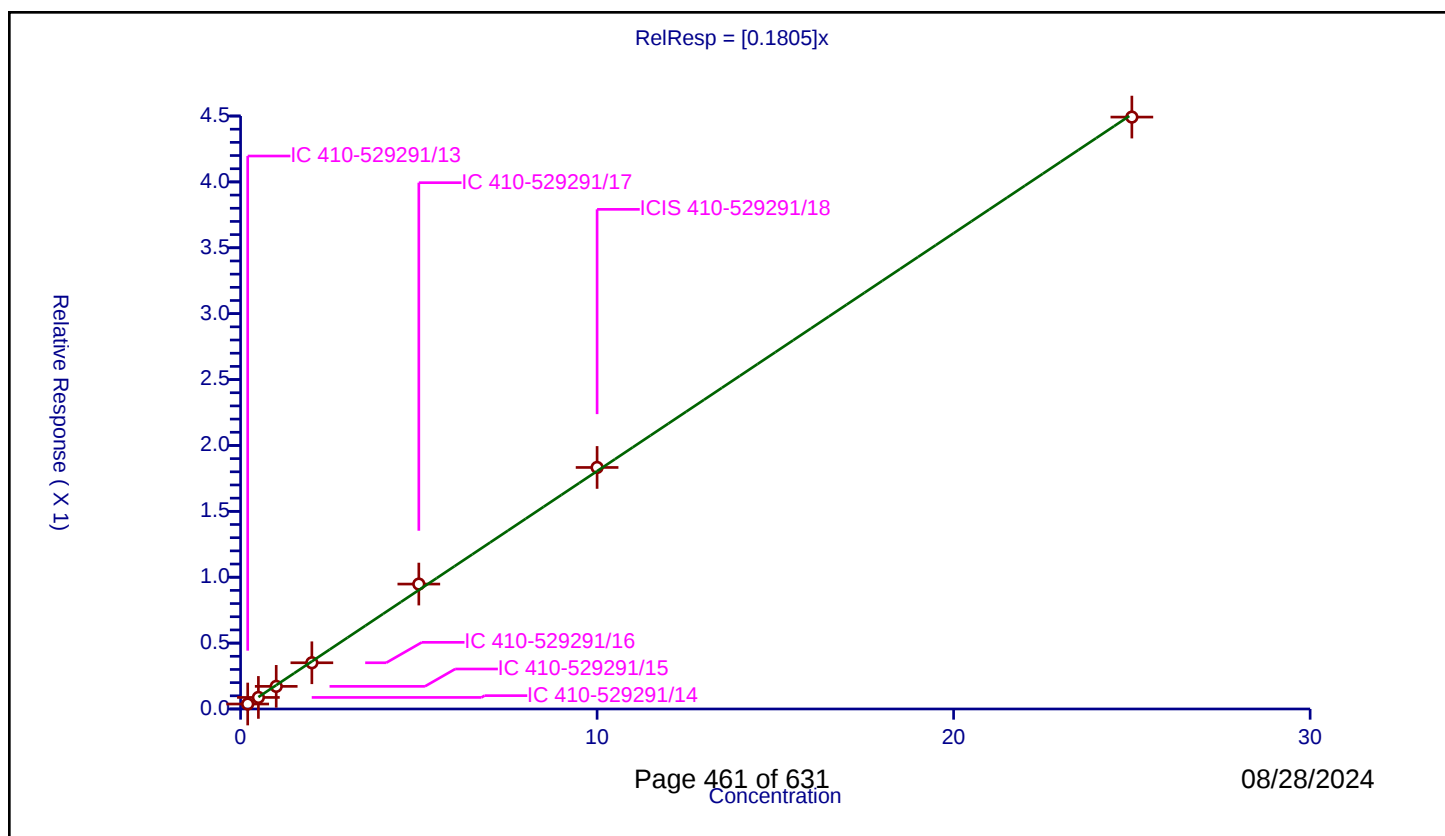
Curve Coefficients

Intercept: 0
Slope: 0.1805

Error Coefficients

Relative Standard Deviation: 3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.037712	10.0	2065681.0	0.188558	Y
2	IC 410-529291/14	0.5	0.087649	10.0	2062328.0	0.175297	Y
3	IC 410-529291/15	1.0	0.171754	10.0	2092414.0	0.171754	Y
4	IC 410-529291/16	2.0	0.350857	10.0	2082929.0	0.175428	Y
5	IC 410-529291/17	5.0	0.947988	10.0	2147537.0	0.189598	Y
6	ICIS 410-529291/18	10.0	1.833054	10.0	2179990.0	0.183305	Y
7	IC 410-529291/19	25.0	4.491857	10.0	2238426.0	0.179674	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

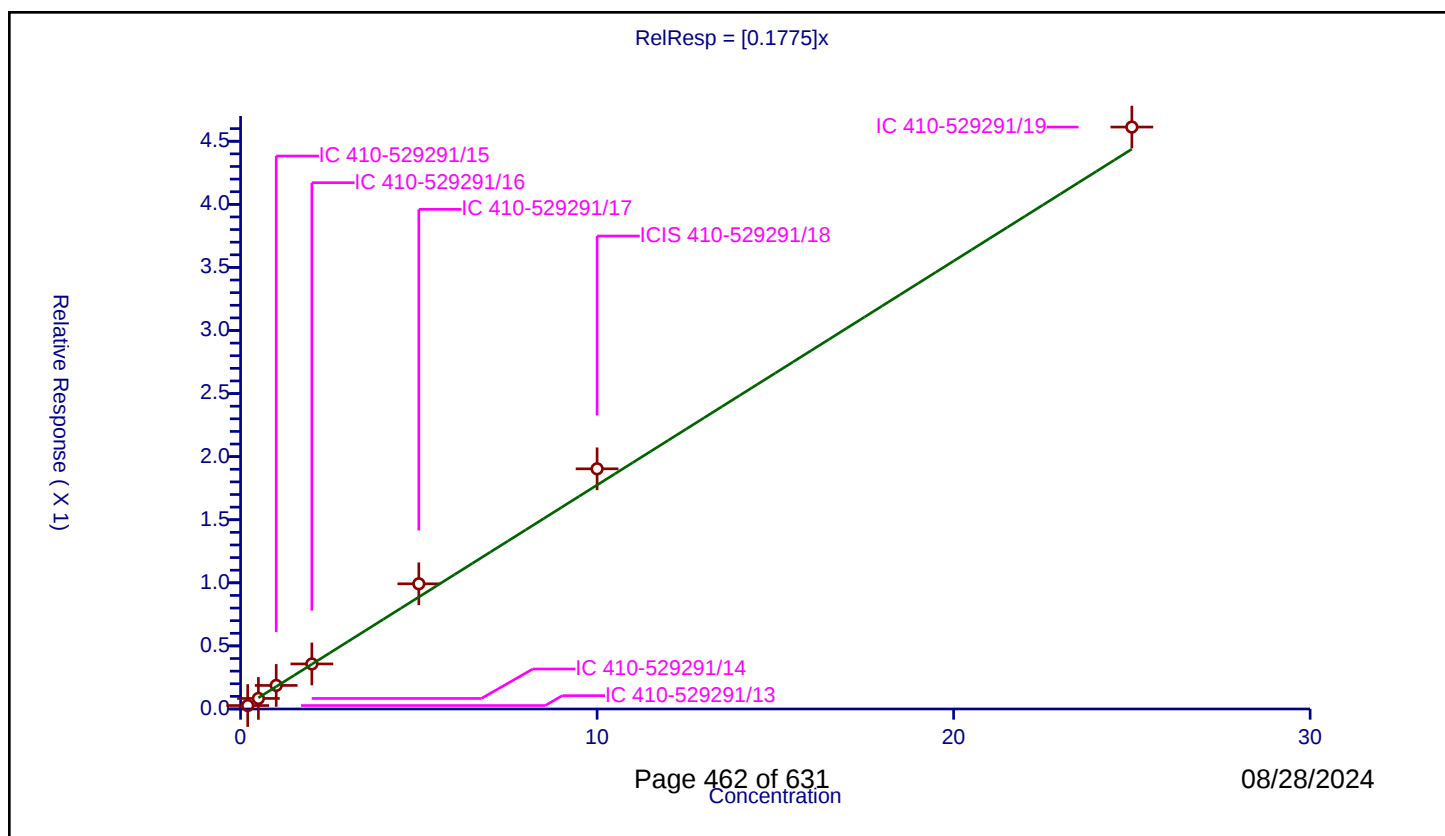
Curve Coefficients

Intercept: 0
Slope: 0.1775

Error Coefficients

Relative Standard Deviation: 11.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.027381	10.0	2065681.0	0.136904	Y
2	IC 410-529291/14	0.5	0.08359	10.0	2062328.0	0.16718	Y
3	IC 410-529291/15	1.0	0.186674	10.0	2092414.0	0.186674	Y
4	IC 410-529291/16	2.0	0.357098	10.0	2082929.0	0.178549	Y
5	IC 410-529291/17	5.0	0.992239	10.0	2147537.0	0.198448	Y
6	ICIS 410-529291/18	10.0	1.903555	10.0	2179990.0	0.190355	Y
7	IC 410-529291/19	25.0	4.612549	10.0	2238426.0	0.184502	Y



Calibration

/ Acetone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

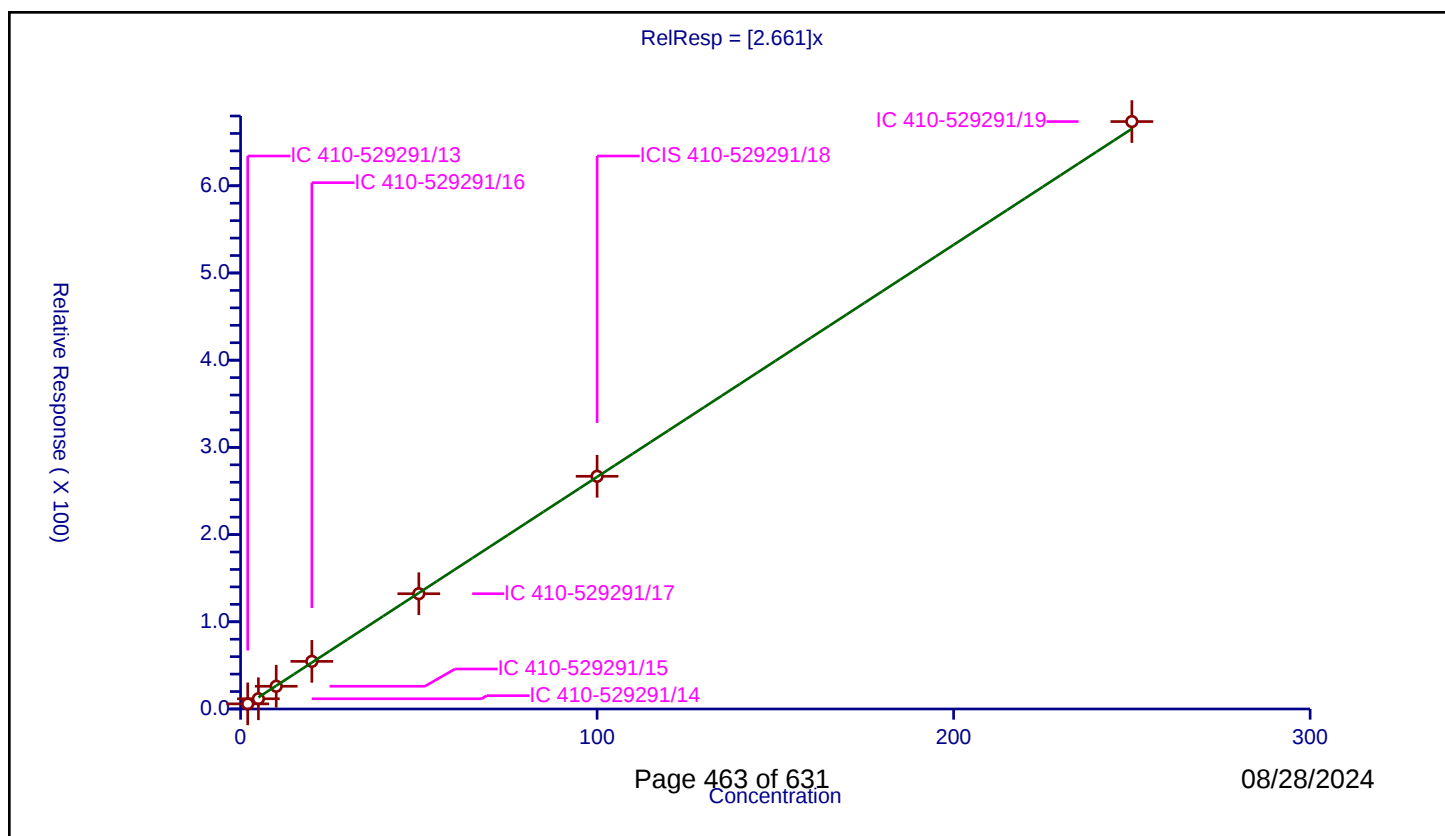
Curve Coefficients

Intercept: 0
Slope: 2.661

Error Coefficients

Relative Standard Deviation: 6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	2.0	5.874701	50.0	98405.0	2.937351	Y
2	IC 410-529291/14	5.0	11.735046	50.0	101542.0	2.347009	Y
3	IC 410-529291/15	10.0	26.078122	50.0	102122.0	2.607812	Y
4	IC 410-529291/16	20.0	54.603304	50.0	99711.0	2.730165	Y
5	IC 410-529291/17	50.0	132.175049	50.0	110278.0	2.643501	Y
6	ICIS 410-529291/18	100.0	266.863771	50.0	107980.0	2.668638	Y
7	IC 410-529291/19	250.0	673.641641	50.0	107501.0	2.694567	Y



Calibration

/ Iodomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

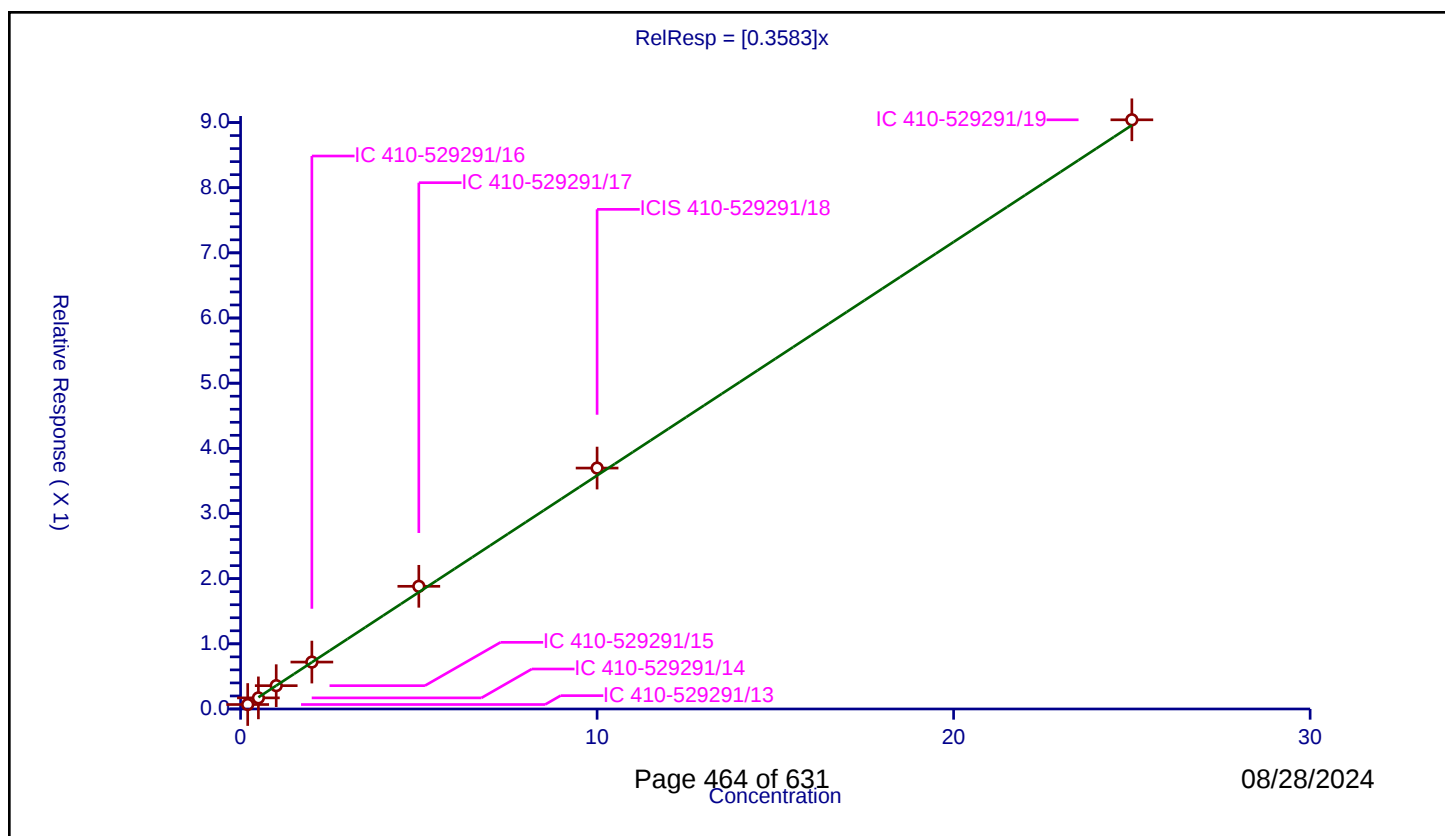
Curve Coefficients

Intercept: 0
Slope: 0.3583

Error Coefficients

Relative Standard Deviation: 3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.068389	10.0	2065681.0	0.341945	Y
2	IC 410-529291/14	0.5	0.170438	10.0	2062328.0	0.340877	Y
3	IC 410-529291/15	1.0	0.357726	10.0	2092414.0	0.357726	Y
4	IC 410-529291/16	2.0	0.719943	10.0	2082929.0	0.359971	Y
5	IC 410-529291/17	5.0	1.882496	10.0	2147537.0	0.376499	Y
6	ICIS 410-529291/18	10.0	3.697205	10.0	2179990.0	0.369721	Y
7	IC 410-529291/19	25.0	9.0418	10.0	2238426.0	0.361672	Y



Calibration

/ Ethyl bromide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

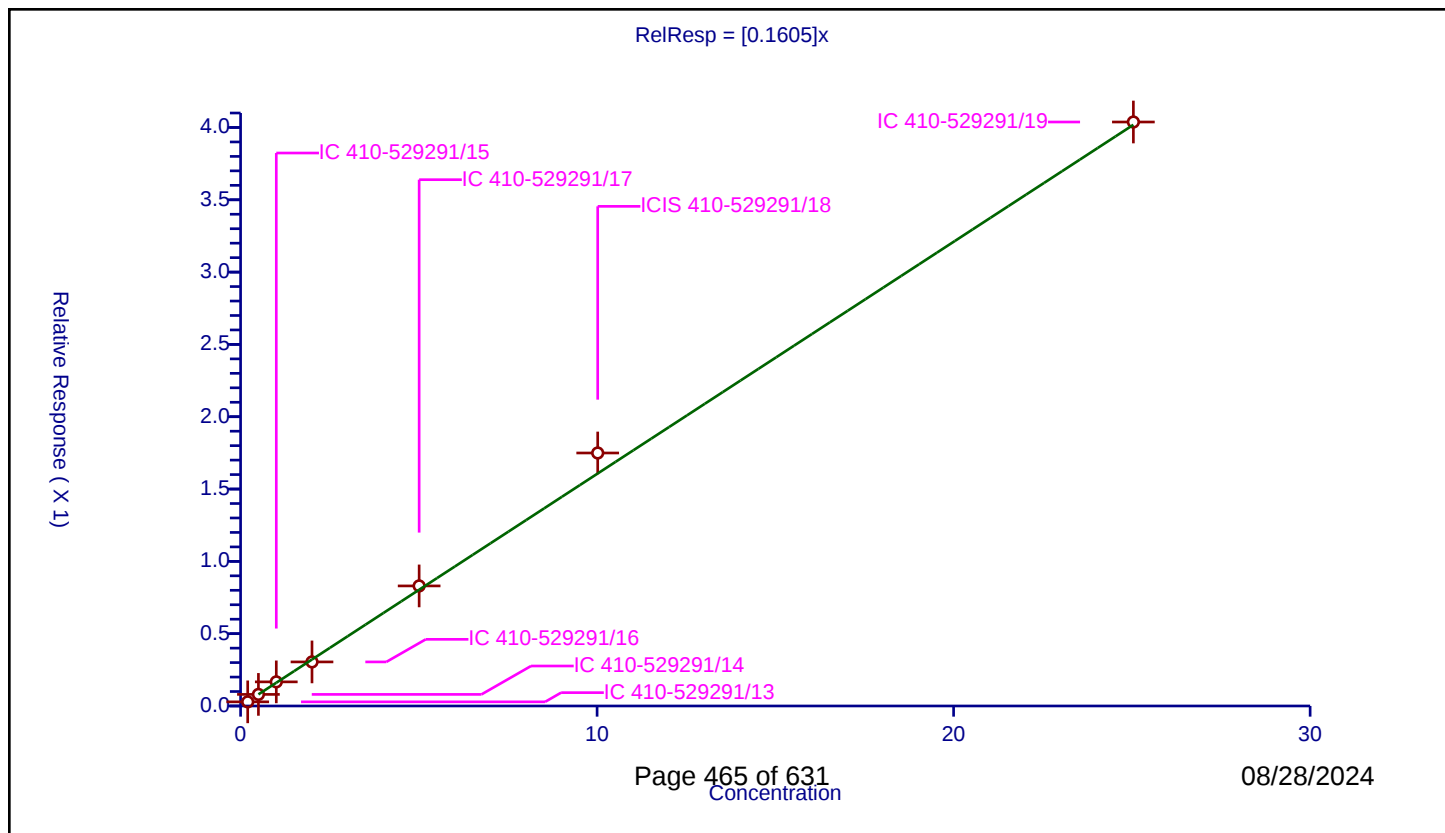
Curve Coefficients

Intercept: 0
 Slope: 0.1605

Error Coefficients

Relative Standard Deviation: 6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.20034	0.028688	10.0	2065681.0	0.143196	Y
2	IC 410-529291/14	0.50085	0.08007	10.0	2062328.0	0.159868	Y
3	IC 410-529291/15	1.0017	0.166846	10.0	2092414.0	0.166562	Y
4	IC 410-529291/16	2.0034	0.304653	10.0	2082929.0	0.152068	Y
5	IC 410-529291/17	5.0085	0.830128	10.0	2147537.0	0.165744	Y
6	ICIS 410-529291/18	10.017	1.749389	10.0	2179990.0	0.174642	Y
7	IC 410-529291/19	25.0425	4.037936	10.0	2238426.0	0.161243	Y



Calibration

/ Carbon disulfide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

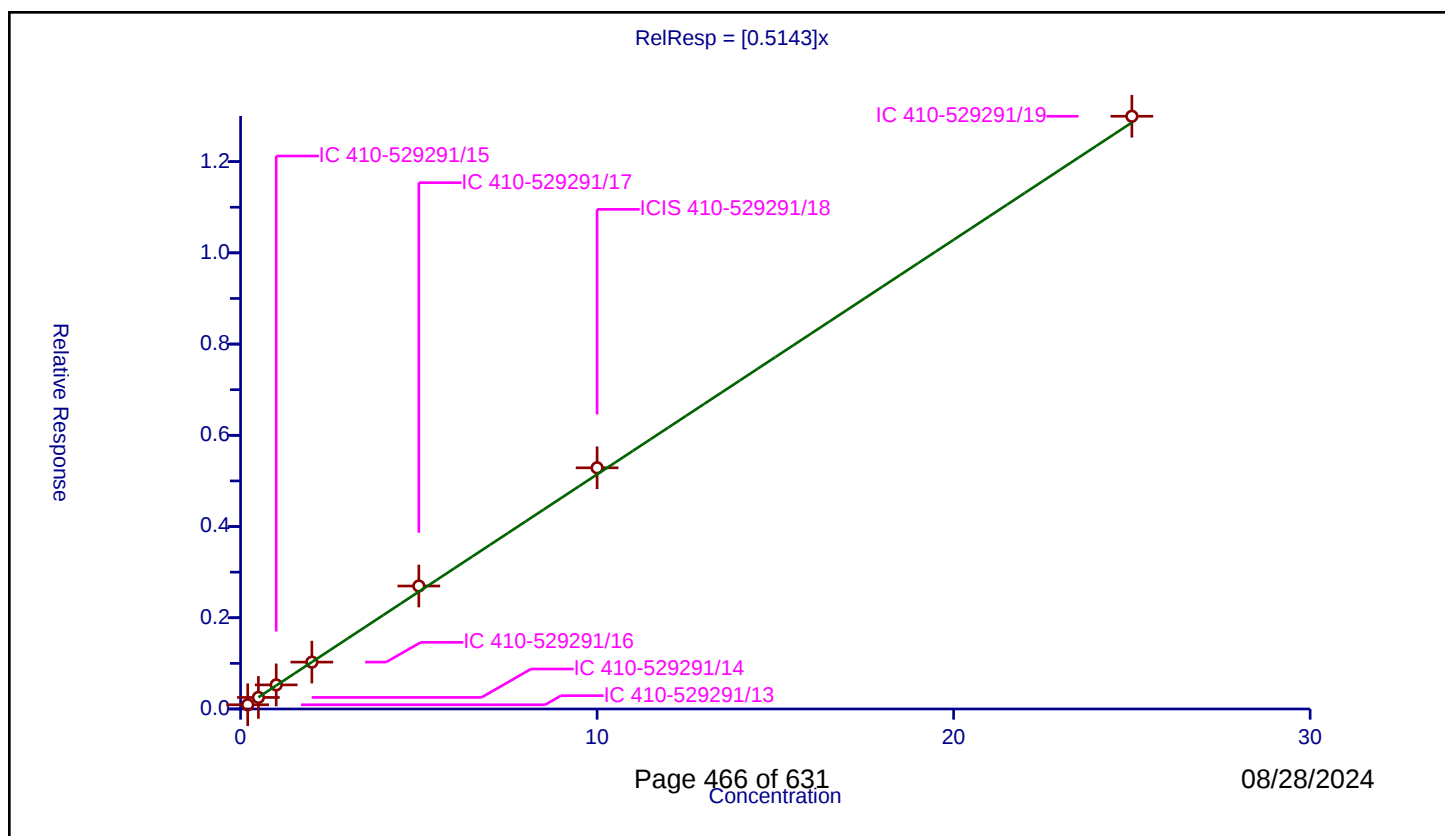
Curve Coefficients

Intercept: 0
Slope: 0.5143

Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.092594	10.0	2065681.0	0.462971	Y
2	IC 410-529291/14	0.5	0.253665	10.0	2062328.0	0.50733	Y
3	IC 410-529291/15	1.0	0.528132	10.0	2092414.0	0.528132	Y
4	IC 410-529291/16	2.0	1.027764	10.0	2082929.0	0.513882	Y
5	IC 410-529291/17	5.0	2.695777	10.0	2147537.0	0.539155	Y
6	ICIS 410-529291/18	10.0	5.287887	10.0	2179990.0	0.528789	Y
7	IC 410-529291/19	25.0	12.994627	10.0	2238426.0	0.519785	Y



Calibration

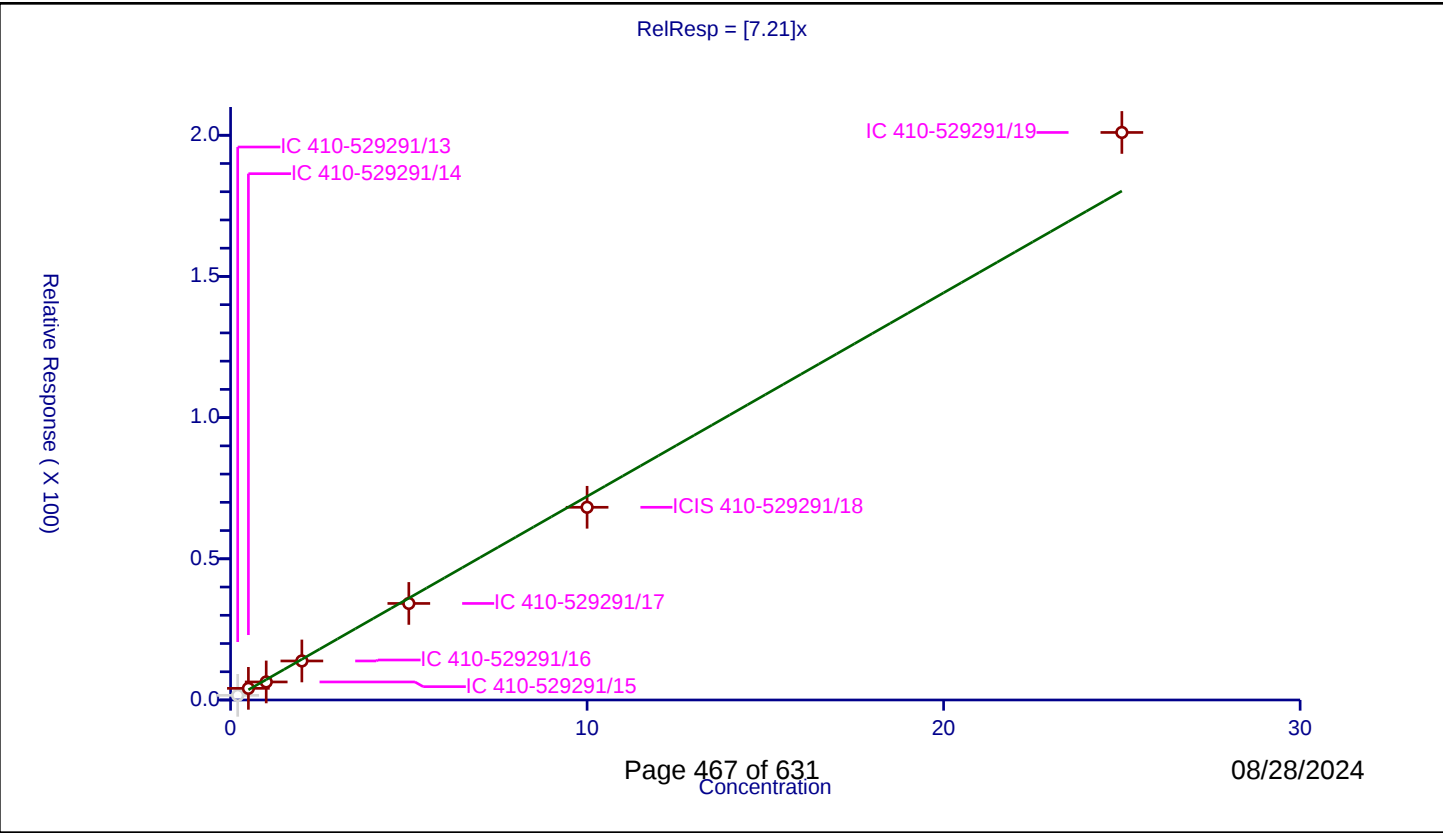
/ Methyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	7.21
Error Coefficients	

Relative Standard Deviation: 10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	1.643717	50.0	98405.0	8.218586	N
2	IC 410-529291/14	0.5	4.126371	50.0	101542.0	8.252743	Y
3	IC 410-529291/15	1.0	6.392354	50.0	102122.0	6.392354	Y
4	IC 410-529291/16	2.0	13.825456	50.0	99711.0	6.912728	Y
5	IC 410-529291/17	5.0	34.19313	50.0	110278.0	6.838626	Y
6	ICIS 410-529291/18	10.0	68.248287	50.0	107980.0	6.824829	Y
7	IC 410-529291/19	25.0	200.987433	50.0	107501.0	8.039497	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

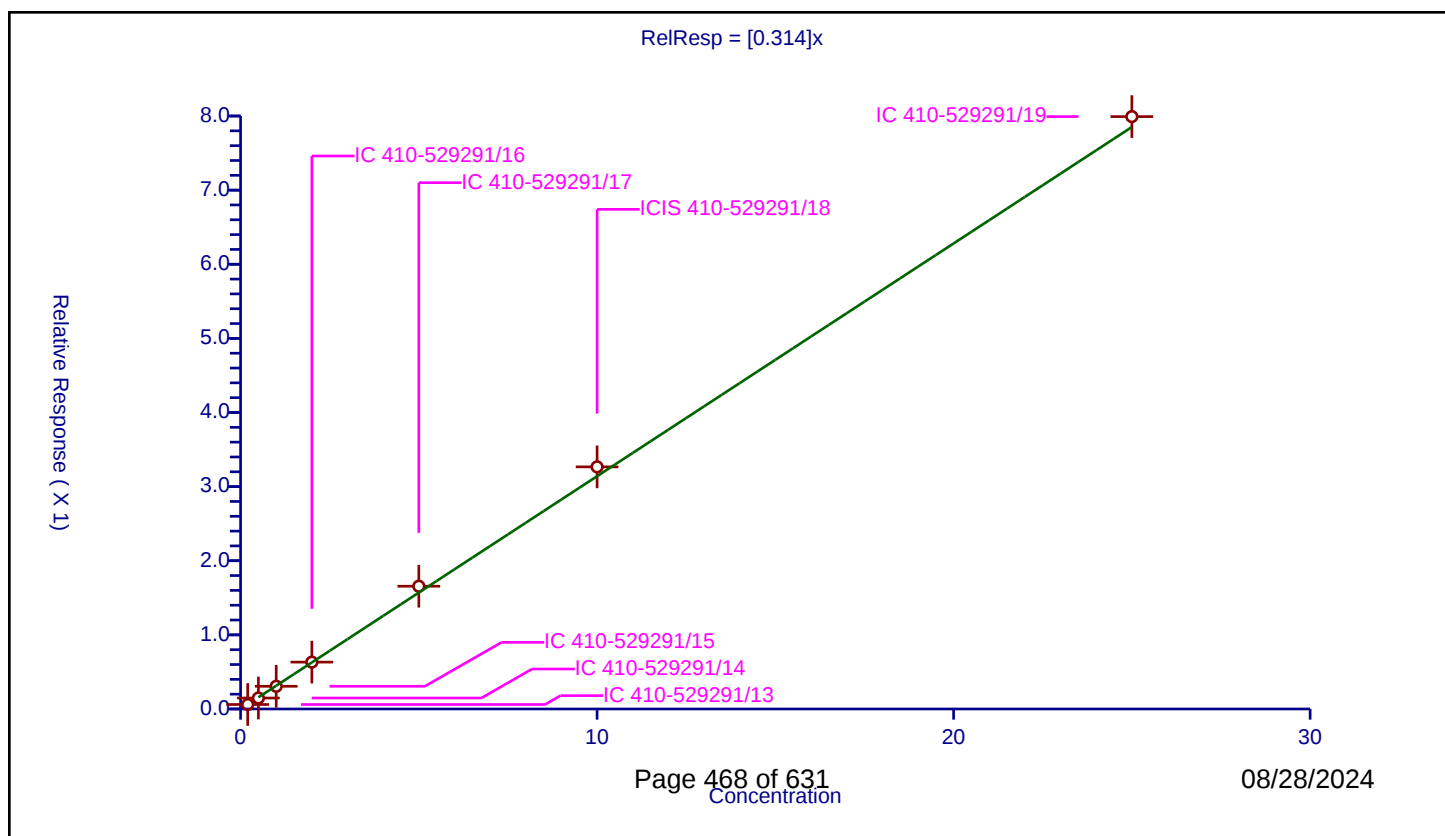
Curve Coefficients

Intercept: 0
Slope: 0.314

Error Coefficients

Relative Standard Deviation: 4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.060469	10.0	2065681.0	0.302346	Y
2	IC 410-529291/14	0.5	0.147983	10.0	2062328.0	0.295966	Y
3	IC 410-529291/15	1.0	0.306287	10.0	2092414.0	0.306287	Y
4	IC 410-529291/16	2.0	0.632163	10.0	2082929.0	0.316081	Y
5	IC 410-529291/17	5.0	1.656344	10.0	2147537.0	0.331269	Y
6	ICIS 410-529291/18	10.0	3.266565	10.0	2179990.0	0.326657	Y
7	IC 410-529291/19	25.0	7.992152	10.0	2238426.0	0.319686	Y



Calibration

/ Methylene Chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

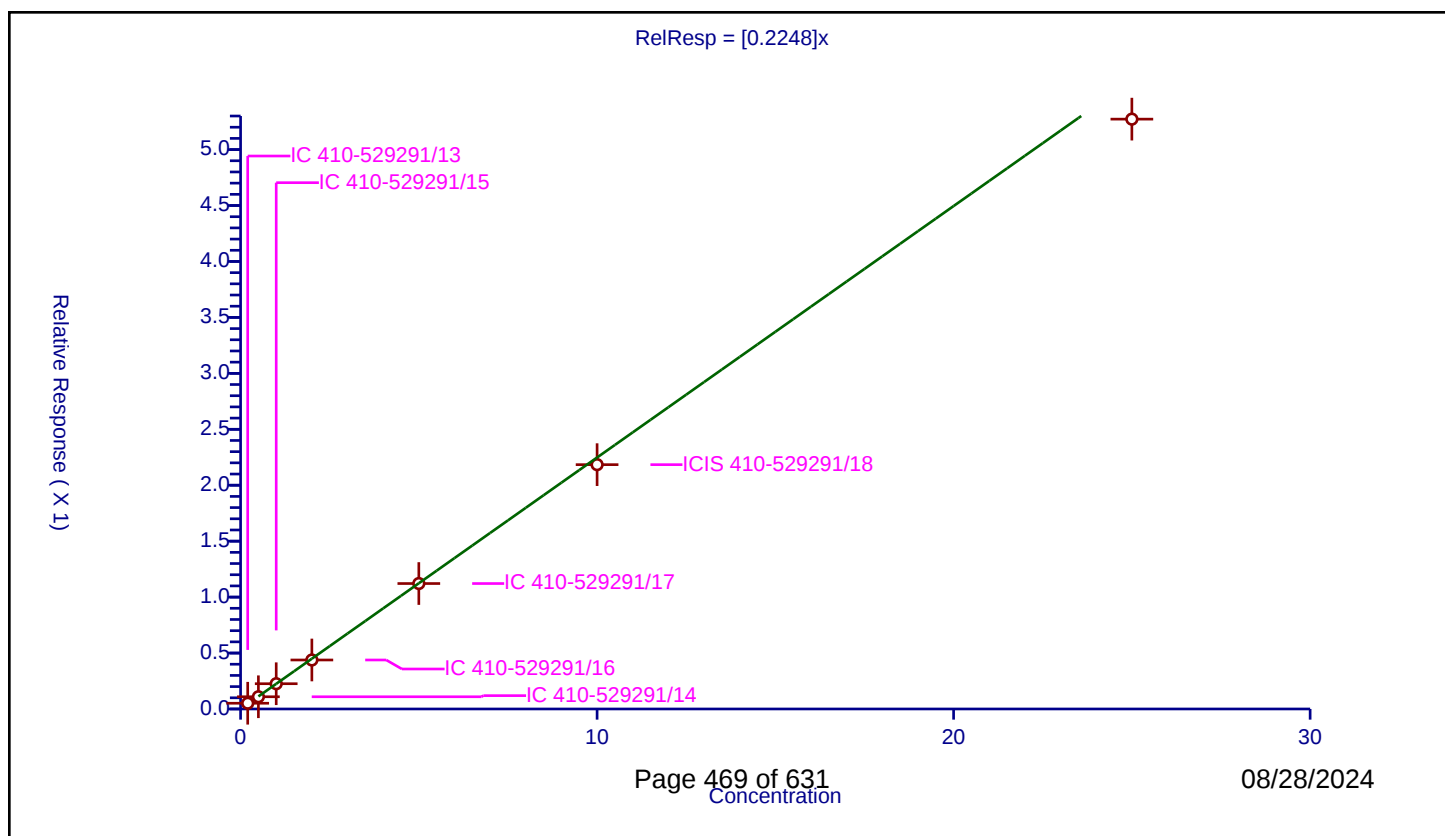
Curve Coefficients

Intercept: 0
Slope: 0.2248

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.051252	10.0	2065681.0	0.256259	Y
2	IC 410-529291/14	0.5	0.109362	10.0	2062328.0	0.218724	Y
3	IC 410-529291/15	1.0	0.225849	10.0	2092414.0	0.225849	Y
4	IC 410-529291/16	2.0	0.437951	10.0	2082929.0	0.218975	Y
5	IC 410-529291/17	5.0	1.12134	10.0	2147537.0	0.224268	Y
6	ICIS 410-529291/18	10.0	2.183785	10.0	2179990.0	0.218379	Y
7	IC 410-529291/19	25.0	5.272227	10.0	2238426.0	0.210889	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

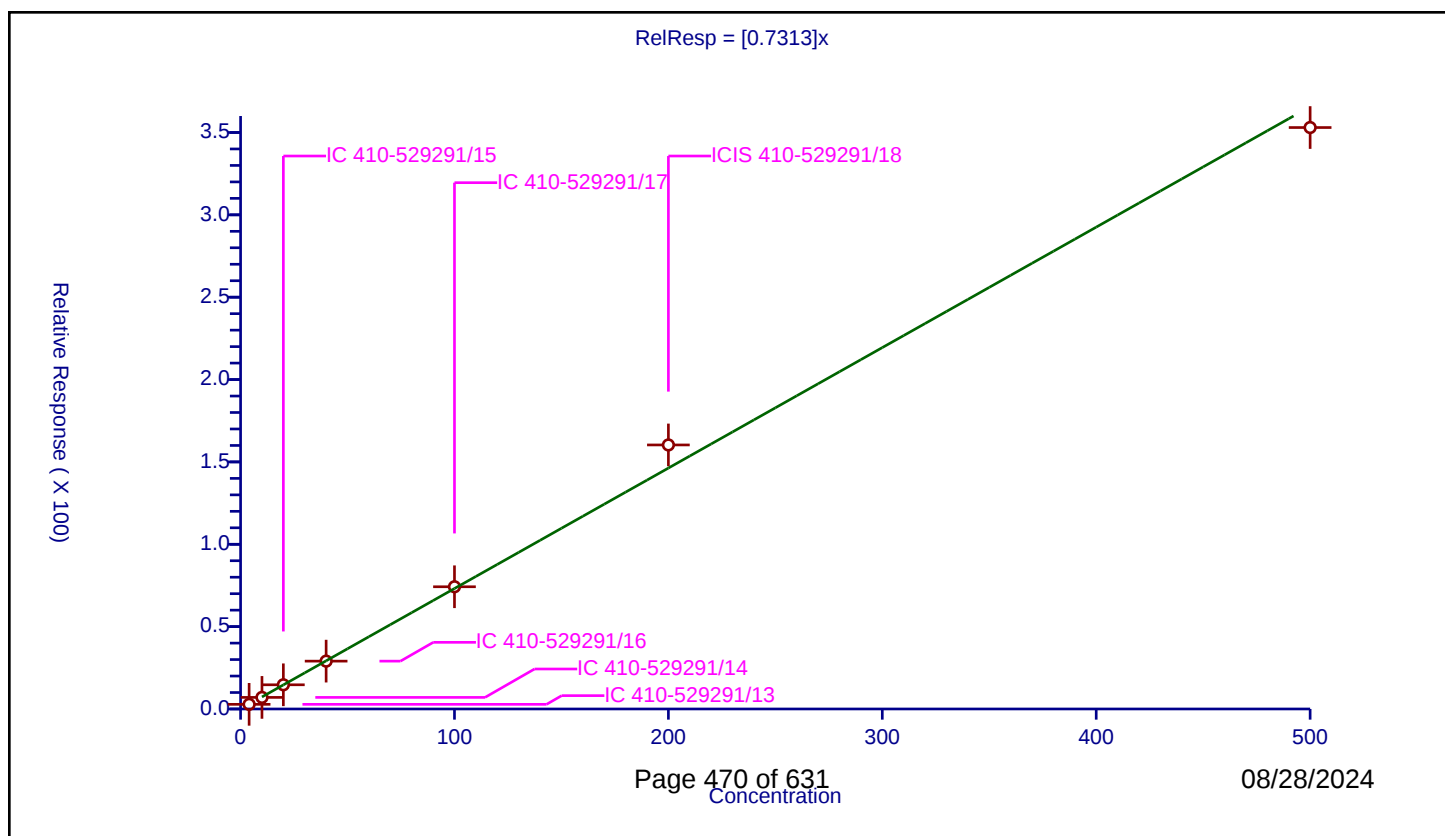
Curve Coefficients

Intercept: 0
 Slope: 0.7313

Error Coefficients

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	4.0	2.818962	50.0	98405.0	0.704741	Y
2	IC 410-529291/14	10.0	7.038959	50.0	101542.0	0.703896	Y
3	IC 410-529291/15	20.0	14.697127	50.0	102122.0	0.734856	Y
4	IC 410-529291/16	40.0	29.052462	50.0	99711.0	0.726312	Y
5	IC 410-529291/17	100.0	74.20111	50.0	110278.0	0.742011	Y
6	ICIS 410-529291/18	200.0	160.30839	50.0	107980.0	0.801542	Y
7	IC 410-529291/19	500.0	353.006019	50.0	107501.0	0.706012	Y



Calibration

/ Acrylonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

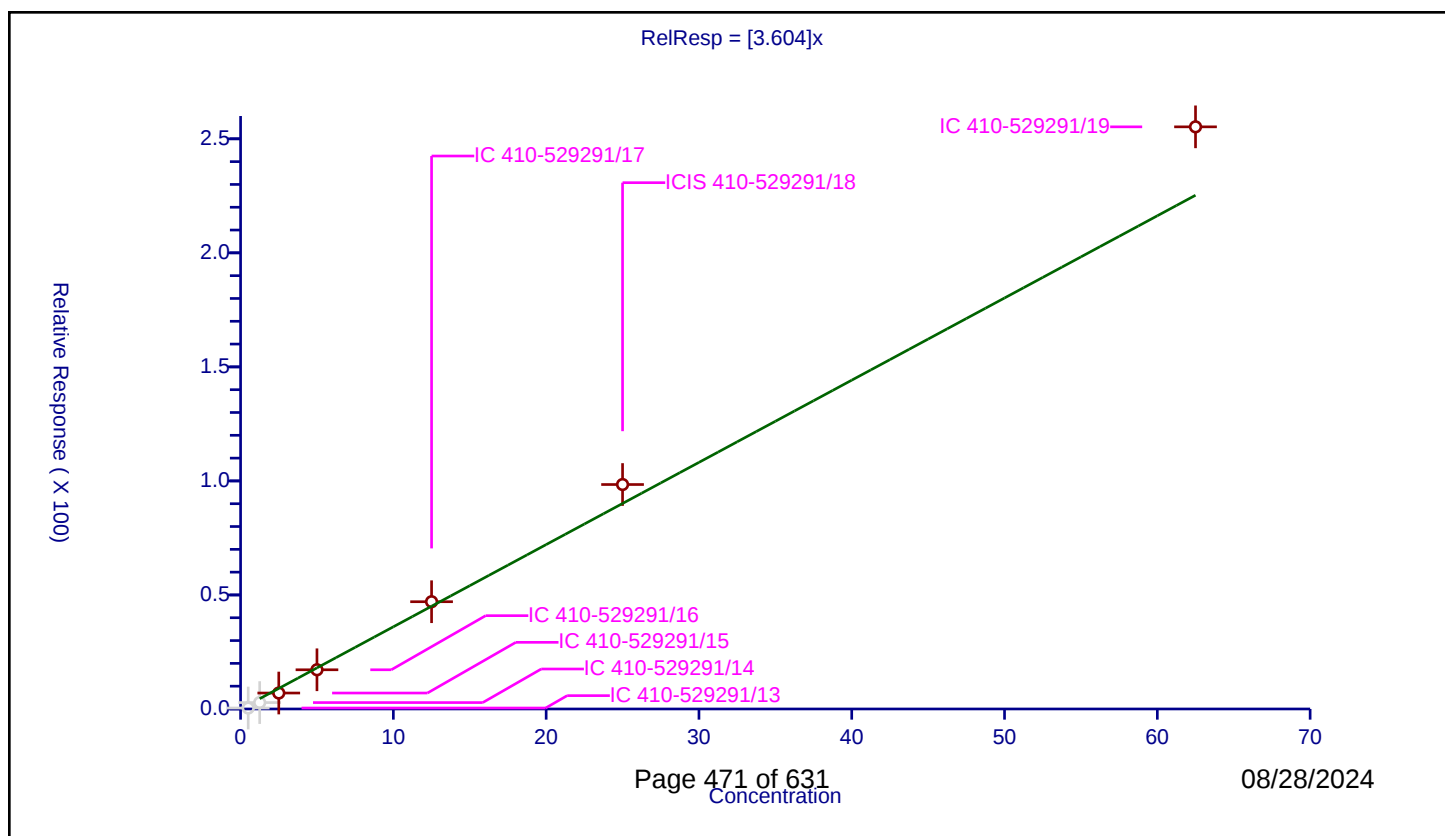
Curve Coefficients

Intercept: 0
 Slope: 3.604

Error Coefficients

Relative Standard Deviation: 14.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.5	0.430364	50.0	98405.0	0.860729	N
2	IC 410-529291/14	1.25	2.817553	50.0	101542.0	2.254043	N
3	IC 410-529291/15	2.5	6.999471	50.0	102122.0	2.799788	Y
4	IC 410-529291/16	5.0	17.19018	50.0	99711.0	3.438036	Y
5	IC 410-529291/17	12.5	47.034313	50.0	110278.0	3.762745	Y
6	ICIS 410-529291/18	25.0	98.416373	50.0	107980.0	3.936655	Y
7	IC 410-529291/19	62.5	255.250649	50.0	107501.0	4.08401	Y



Calibration

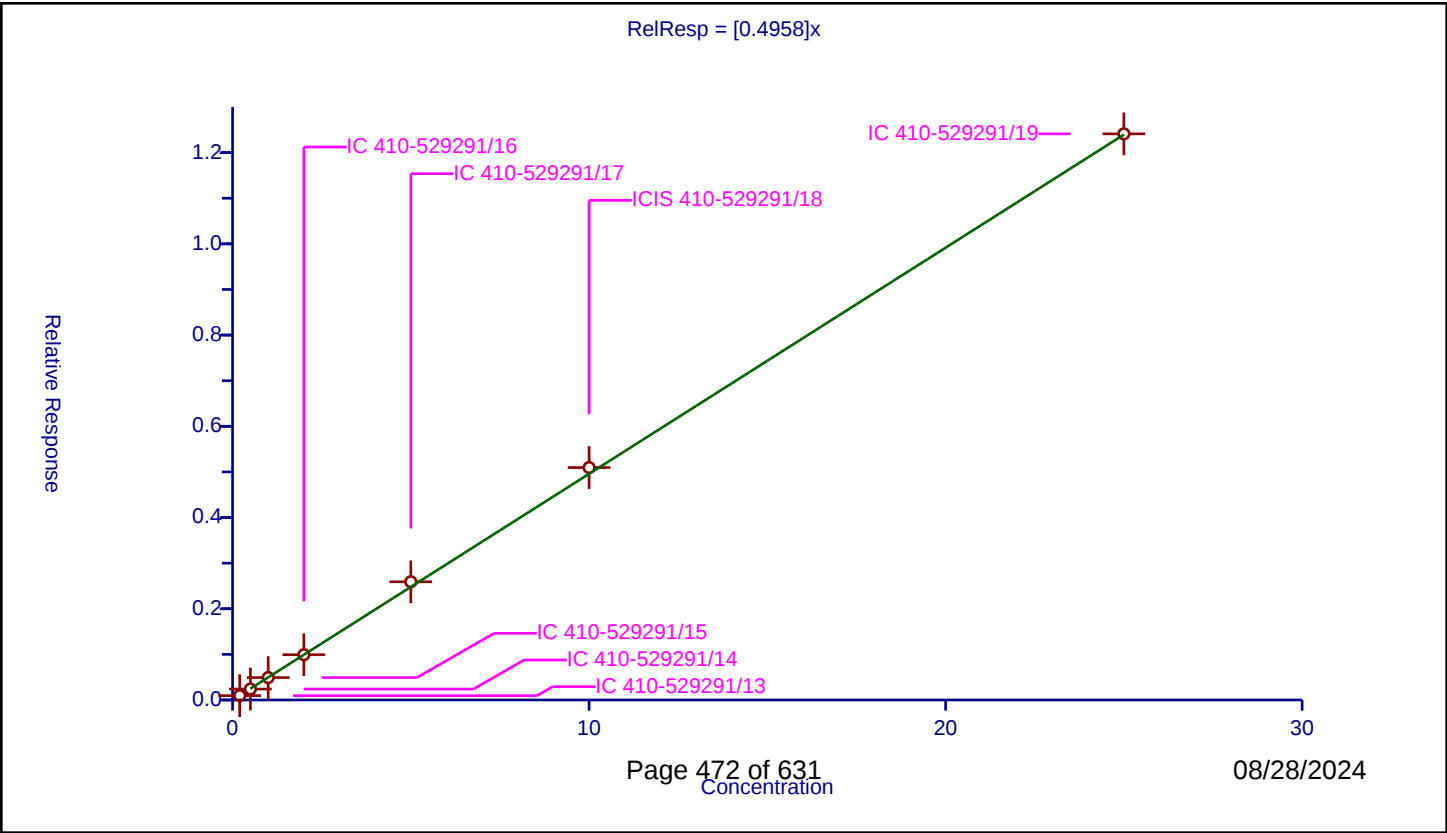
/ Methyl tert-butyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4958
Error Coefficients	

Relative Standard Deviation: 2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.095867	10.0	2065681.0	0.479333	Y
2	IC 410-529291/14	0.5	0.239622	10.0	2062328.0	0.479245	Y
3	IC 410-529291/15	1.0	0.491432	10.0	2092414.0	0.491432	Y
4	IC 410-529291/16	2.0	0.992295	10.0	2082929.0	0.496147	Y
5	IC 410-529291/17	5.0	2.591303	10.0	2147537.0	0.518261	Y
6	ICIS 410-529291/18	10.0	5.09567	10.0	2179990.0	0.509567	Y
7	IC 410-529291/19	25.0	12.411766	10.0	2238426.0	0.496471	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

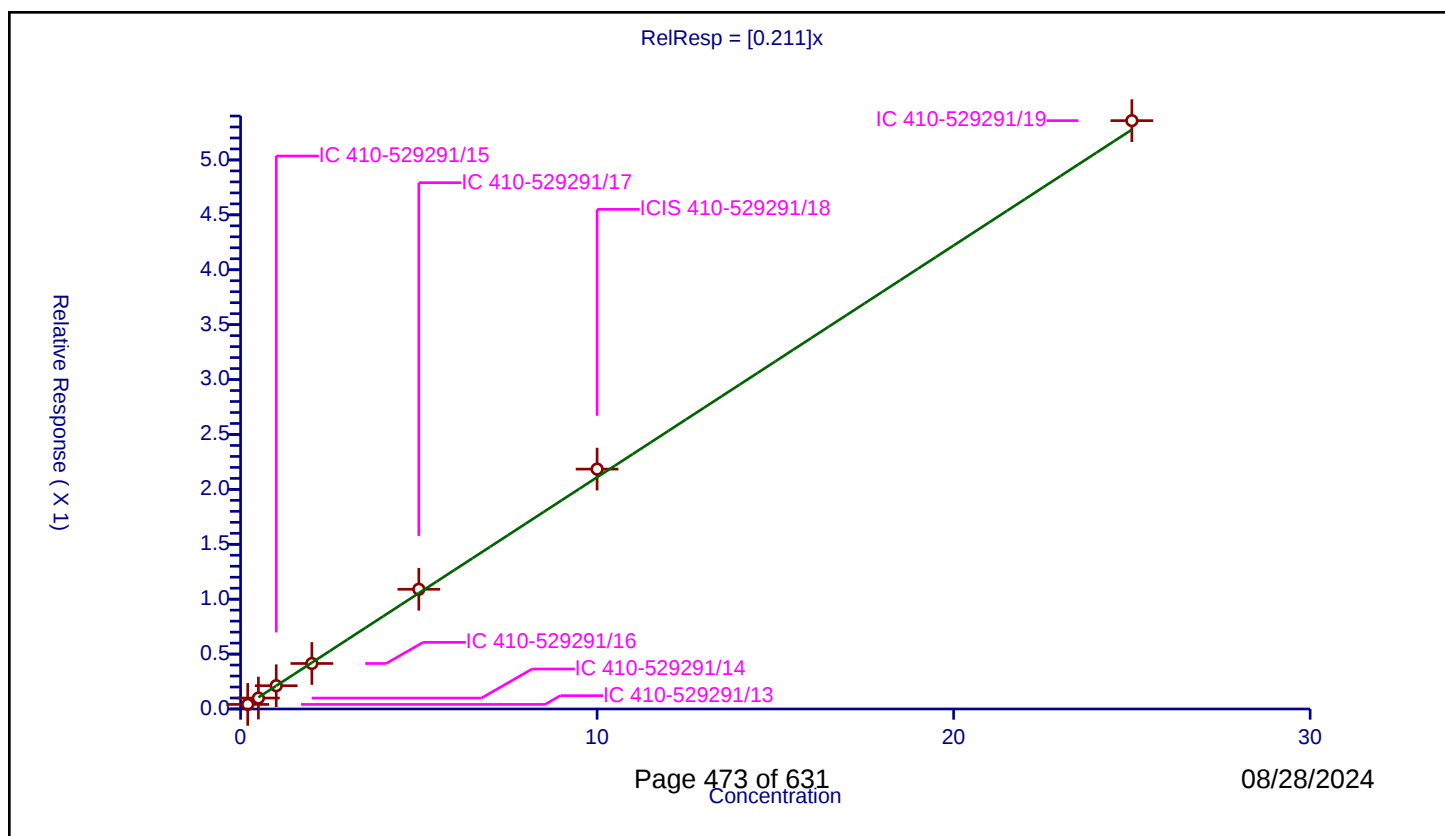
Curve Coefficients

Intercept: 0
Slope: 0.211

Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.041744	10.0	2065681.0	0.208721	Y
2	IC 410-529291/14	0.5	0.099393	10.0	2062328.0	0.198785	Y
3	IC 410-529291/15	1.0	0.211822	10.0	2092414.0	0.211822	Y
4	IC 410-529291/16	2.0	0.414292	10.0	2082929.0	0.207146	Y
5	IC 410-529291/17	5.0	1.090156	10.0	2147537.0	0.218031	Y
6	ICIS 410-529291/18	10.0	2.184547	10.0	2179990.0	0.218455	Y
7	IC 410-529291/19	25.0	5.357908	10.0	2238426.0	0.214316	Y



Calibration

/ Hexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

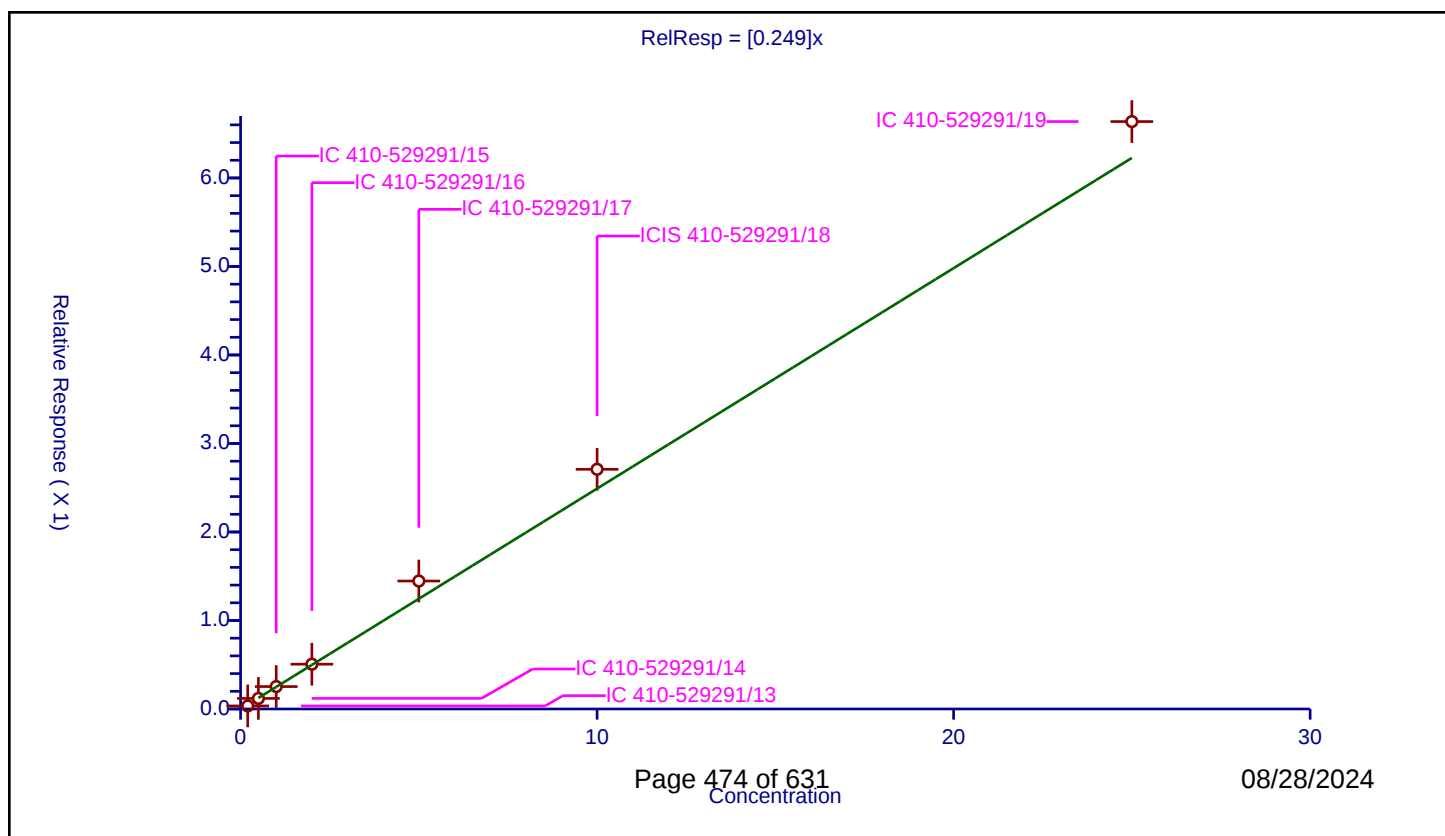
Curve Coefficients

Intercept: 0
 Slope: 0.249

Error Coefficients

Relative Standard Deviation: 15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.034492	10.0	2065681.0	0.172461	Y
2	IC 410-529291/14	0.5	0.11953	10.0	2062328.0	0.23906	Y
3	IC 410-529291/15	1.0	0.253306	10.0	2092414.0	0.253306	Y
4	IC 410-529291/16	2.0	0.505898	10.0	2082929.0	0.252949	Y
5	IC 410-529291/17	5.0	1.445949	10.0	2147537.0	0.28919	Y
6	ICIS 410-529291/18	10.0	2.708297	10.0	2179990.0	0.27083	Y
7	IC 410-529291/19	25.0	6.637191	10.0	2238426.0	0.265488	Y



Calibration

/ 1,1-Dichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

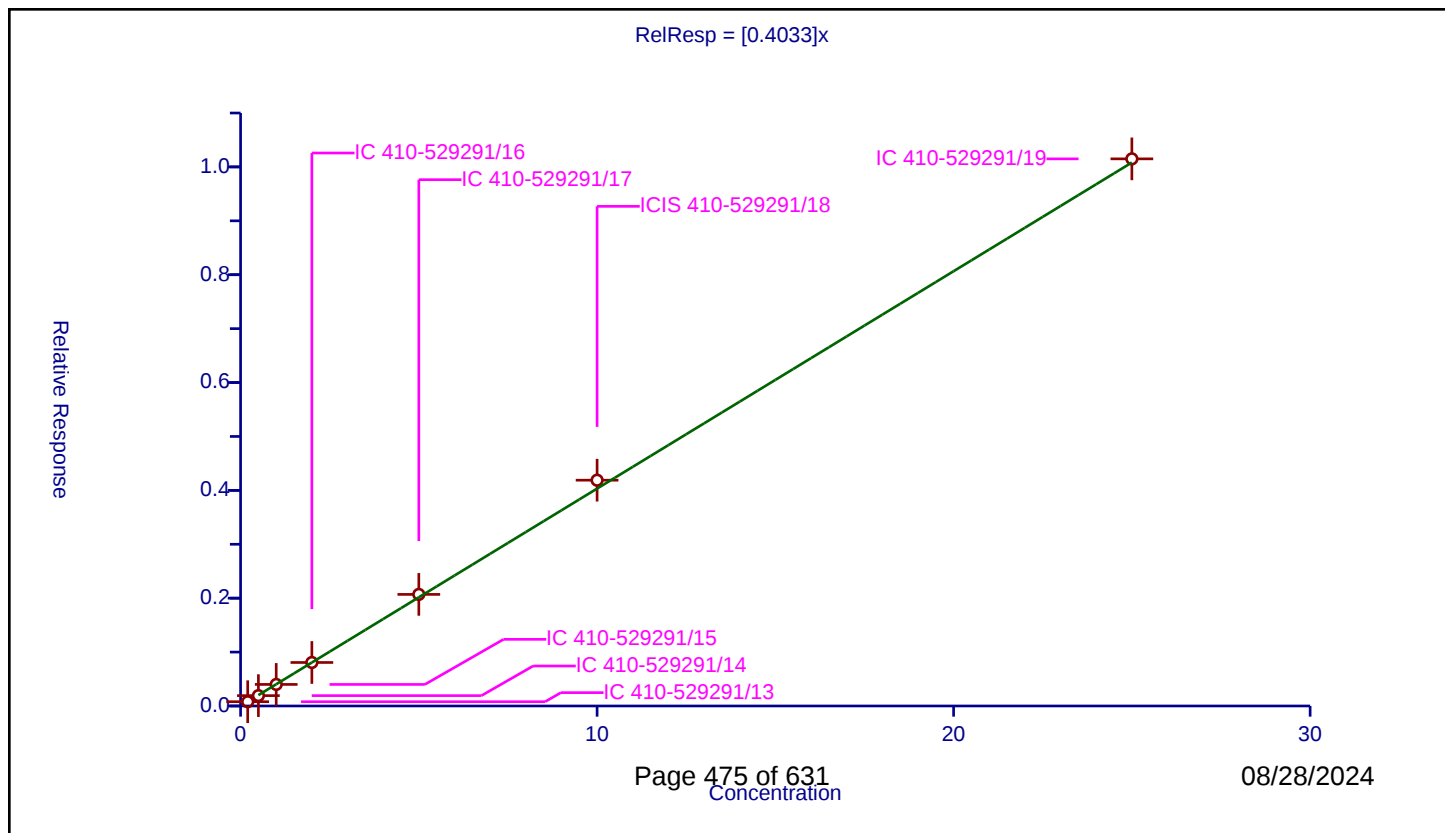
Curve Coefficients

Intercept: 0
Slope: 0.4033

Error Coefficients

Relative Standard Deviation: 2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.079233	10.0	2065681.0	0.396165	Y
2	IC 410-529291/14	0.5	0.192254	10.0	2062328.0	0.384507	Y
3	IC 410-529291/15	1.0	0.399849	10.0	2092414.0	0.399849	Y
4	IC 410-529291/16	2.0	0.806912	10.0	2082929.0	0.403456	Y
5	IC 410-529291/17	5.0	2.070078	10.0	2147537.0	0.414016	Y
6	ICIS 410-529291/18	10.0	4.18895	10.0	2179990.0	0.418895	Y
7	IC 410-529291/19	25.0	10.149462	10.0	2238426.0	0.405978	Y



Calibration

/ Isopropyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

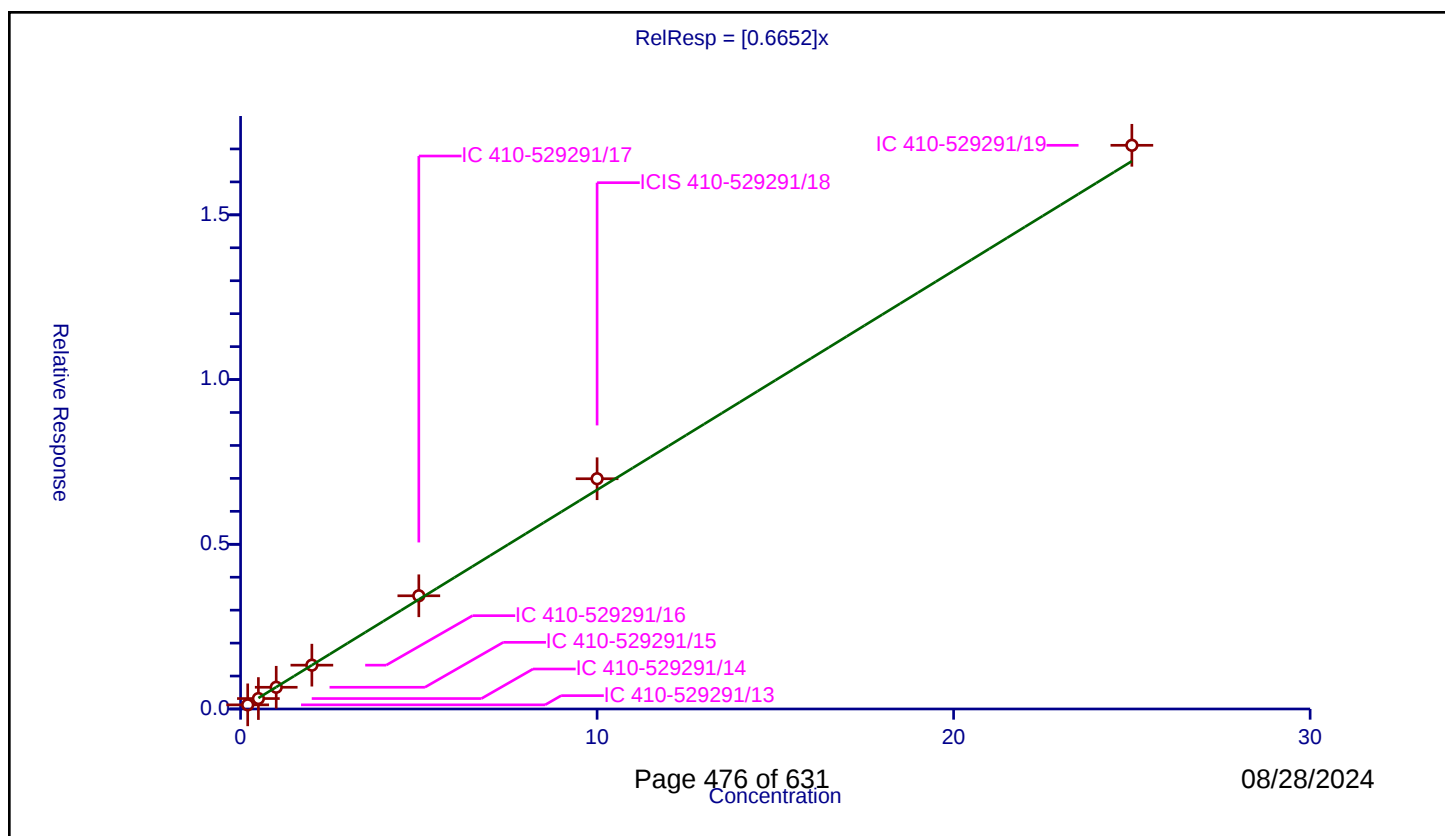
Curve Coefficients

Intercept: 0
Slope: 0.6652

Error Coefficients

Relative Standard Deviation: 4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.125653	10.0	2065681.0	0.628267	Y
2	IC 410-529291/14	0.5	0.31654	10.0	2062328.0	0.633081	Y
3	IC 410-529291/15	1.0	0.659129	10.0	2092414.0	0.659129	Y
4	IC 410-529291/16	2.0	1.330055	10.0	2082929.0	0.665027	Y
5	IC 410-529291/17	5.0	3.43677	10.0	2147537.0	0.687354	Y
6	ICIS 410-529291/18	10.0	6.989216	10.0	2179990.0	0.698922	Y
7	IC 410-529291/19	25.0	17.111542	10.0	2238426.0	0.684462	Y



Calibration

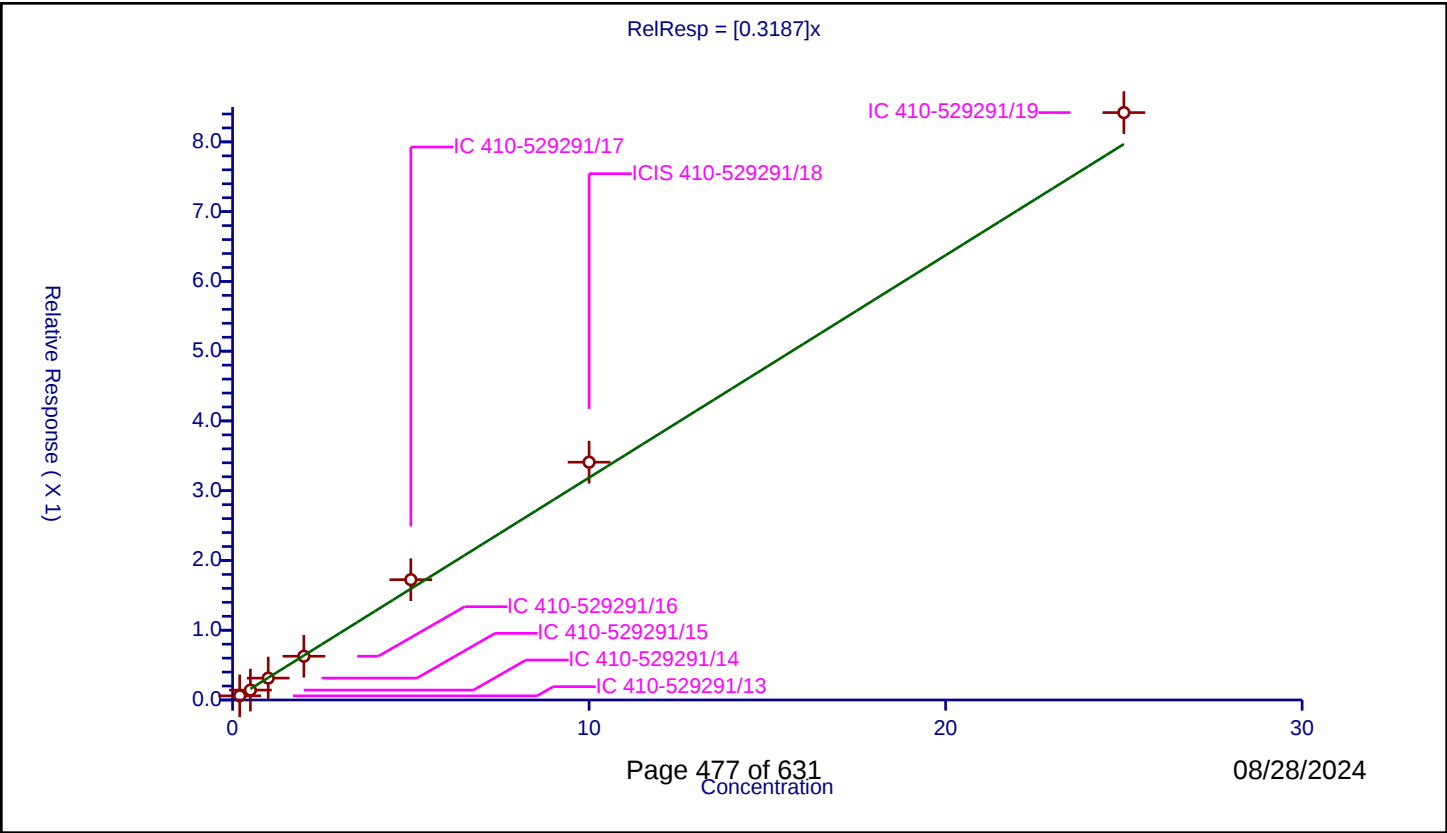
/ 2-Chloro-1,3-butadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3187
Error Coefficients	

Relative Standard Deviation: 7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.059559	10.0	2065681.0	0.297795	Y
2	IC 410-529291/14	0.5	0.14183	10.0	2062328.0	0.28366	Y
3	IC 410-529291/15	1.0	0.313638	10.0	2092414.0	0.313638	Y
4	IC 410-529291/16	2.0	0.627107	10.0	2082929.0	0.313554	Y
5	IC 410-529291/17	5.0	1.724515	10.0	2147537.0	0.344903	Y
6	ICIS 410-529291/18	10.0	3.408901	10.0	2179990.0	0.34089	Y
7	IC 410-529291/19	25.0	8.419984	10.0	2238426.0	0.336799	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

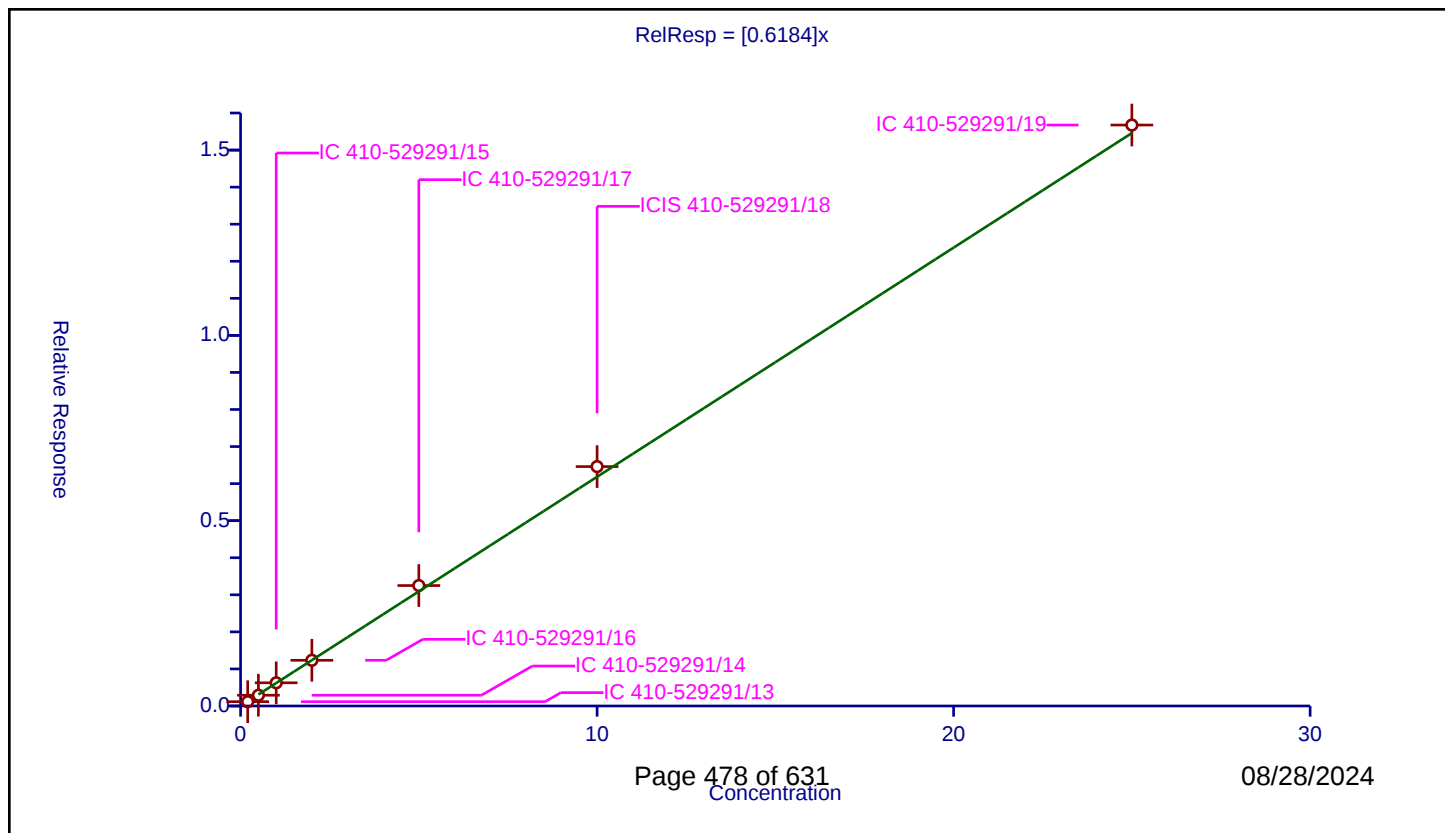
Curve Coefficients

Intercept: 0
Slope: 0.6184

Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.11648	10.0	2065681.0	0.582399	Y
2	IC 410-529291/14	0.5	0.290453	10.0	2062328.0	0.580907	Y
3	IC 410-529291/15	1.0	0.625641	10.0	2092414.0	0.625641	Y
4	IC 410-529291/16	2.0	1.233163	10.0	2082929.0	0.616581	Y
5	IC 410-529291/17	5.0	3.250077	10.0	2147537.0	0.650015	Y
6	ICIS 410-529291/18	10.0	6.459832	10.0	2179990.0	0.645983	Y
7	IC 410-529291/19	25.0	15.675399	10.0	2238426.0	0.627016	Y



Calibration

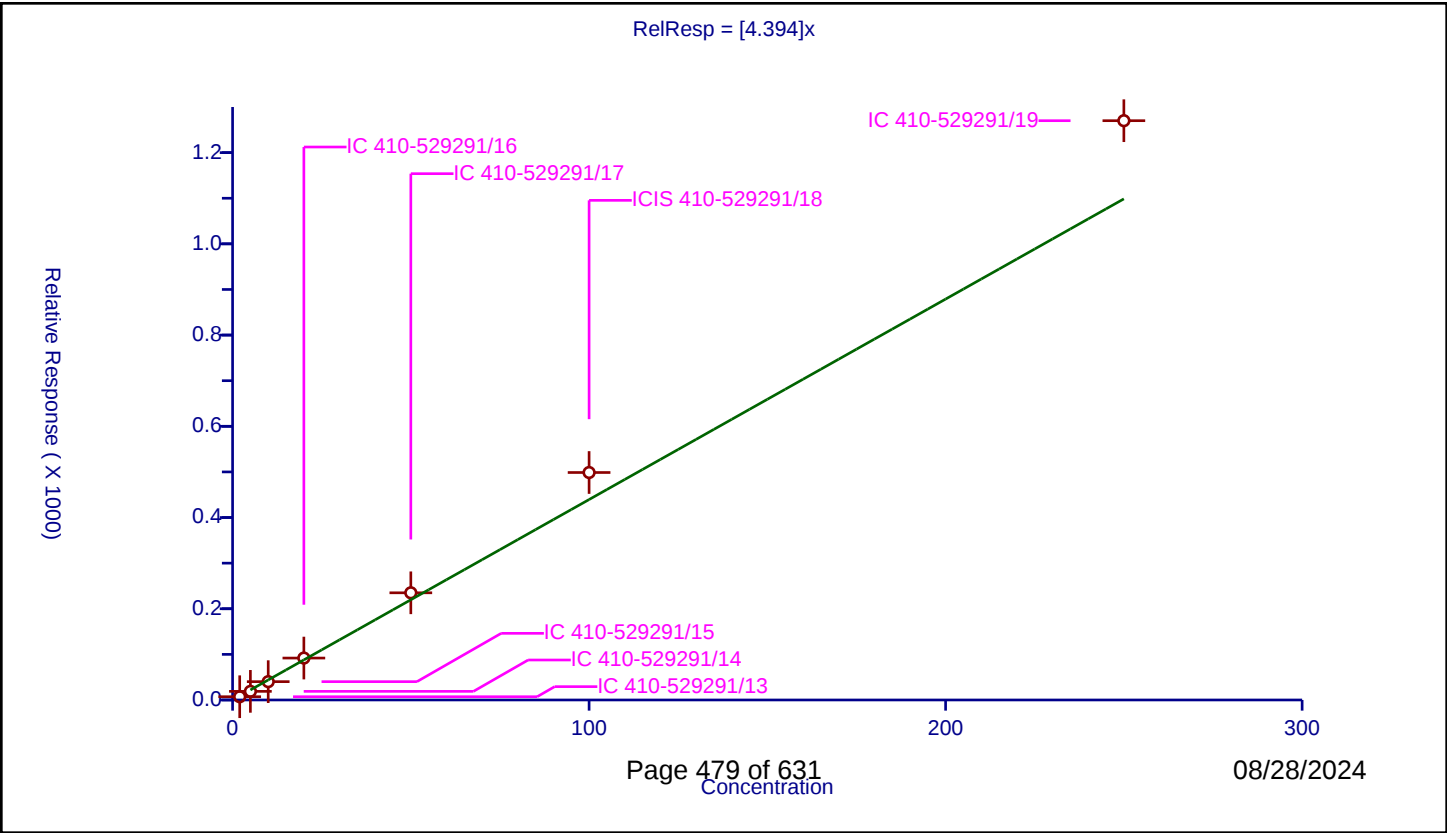
/ 2-Butanone (MEK)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.394
Error Coefficients	

Relative Standard Deviation: 13.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	2.0	7.189167	50.0	98405.0	3.594584	Y
2	IC 410-529291/14	5.0	18.921727	50.0	101542.0	3.784345	Y
3	IC 410-529291/15	10.0	40.174987	50.0	102122.0	4.017499	Y
4	IC 410-529291/16	20.0	91.950236	50.0	99711.0	4.597512	Y
5	IC 410-529291/17	50.0	235.006529	50.0	110278.0	4.700131	Y
6	ICIS 410-529291/18	100.0	498.696055	50.0	107980.0	4.986961	Y
7	IC 410-529291/19	250.0	1269.993767	50.0	107501.0	5.079975	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

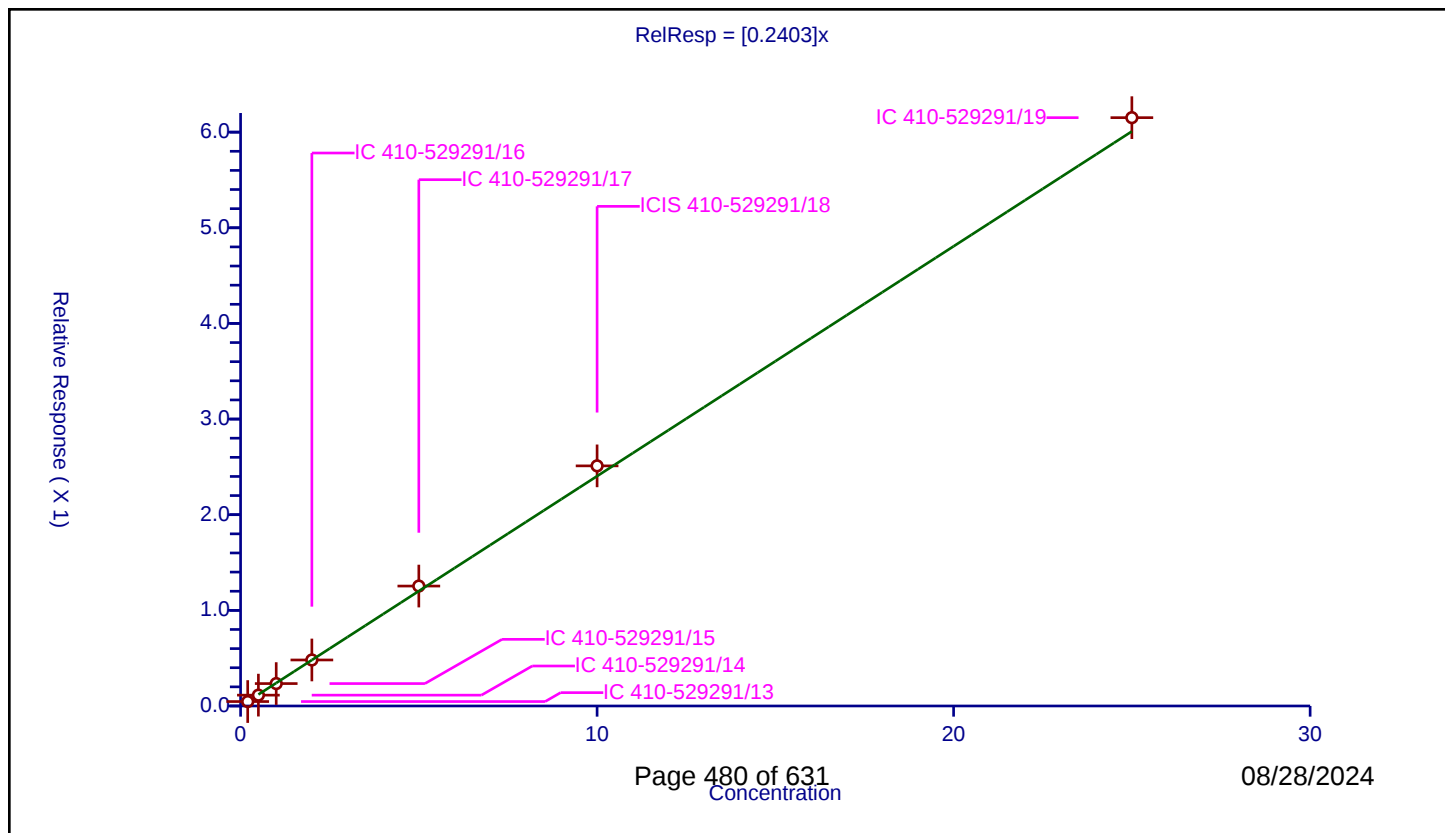
Curve Coefficients

Intercept: 0
Slope: 0.2403

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.046488	10.0	2065681.0	0.232442	Y
2	IC 410-529291/14	0.5	0.113479	10.0	2062328.0	0.226957	Y
3	IC 410-529291/15	1.0	0.234413	10.0	2092414.0	0.234413	Y
4	IC 410-529291/16	2.0	0.481068	10.0	2082929.0	0.240534	Y
5	IC 410-529291/17	5.0	1.253874	10.0	2147537.0	0.250775	Y
6	ICIS 410-529291/18	10.0	2.510649	10.0	2179990.0	0.251065	Y
7	IC 410-529291/19	25.0	6.151376	10.0	2238426.0	0.246055	Y



Calibration

/ 2,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

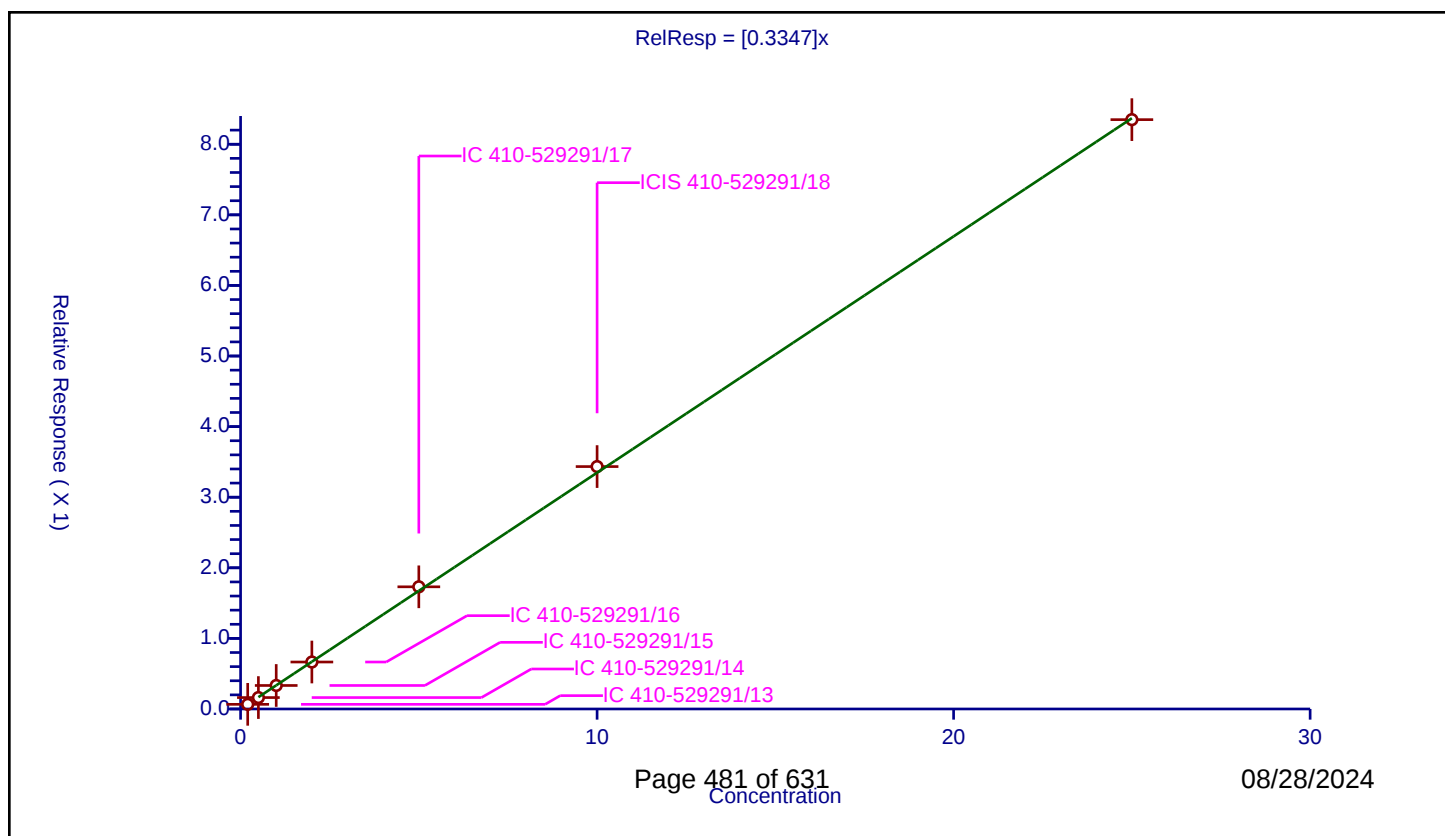
Curve Coefficients

Intercept: 0
Slope: 0.3347

Error Coefficients

Relative Standard Deviation: 2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.06608	10.0	2065681.0	0.3304	Y
2	IC 410-529291/14	0.5	0.161793	10.0	2062328.0	0.323586	Y
3	IC 410-529291/15	1.0	0.333094	10.0	2092414.0	0.333094	Y
4	IC 410-529291/16	2.0	0.665356	10.0	2082929.0	0.332678	Y
5	IC 410-529291/17	5.0	1.73062	10.0	2147537.0	0.346124	Y
6	ICIS 410-529291/18	10.0	3.434002	10.0	2179990.0	0.3434	Y
7	IC 410-529291/19	25.0	8.348728	10.0	2238426.0	0.333949	Y



Calibration

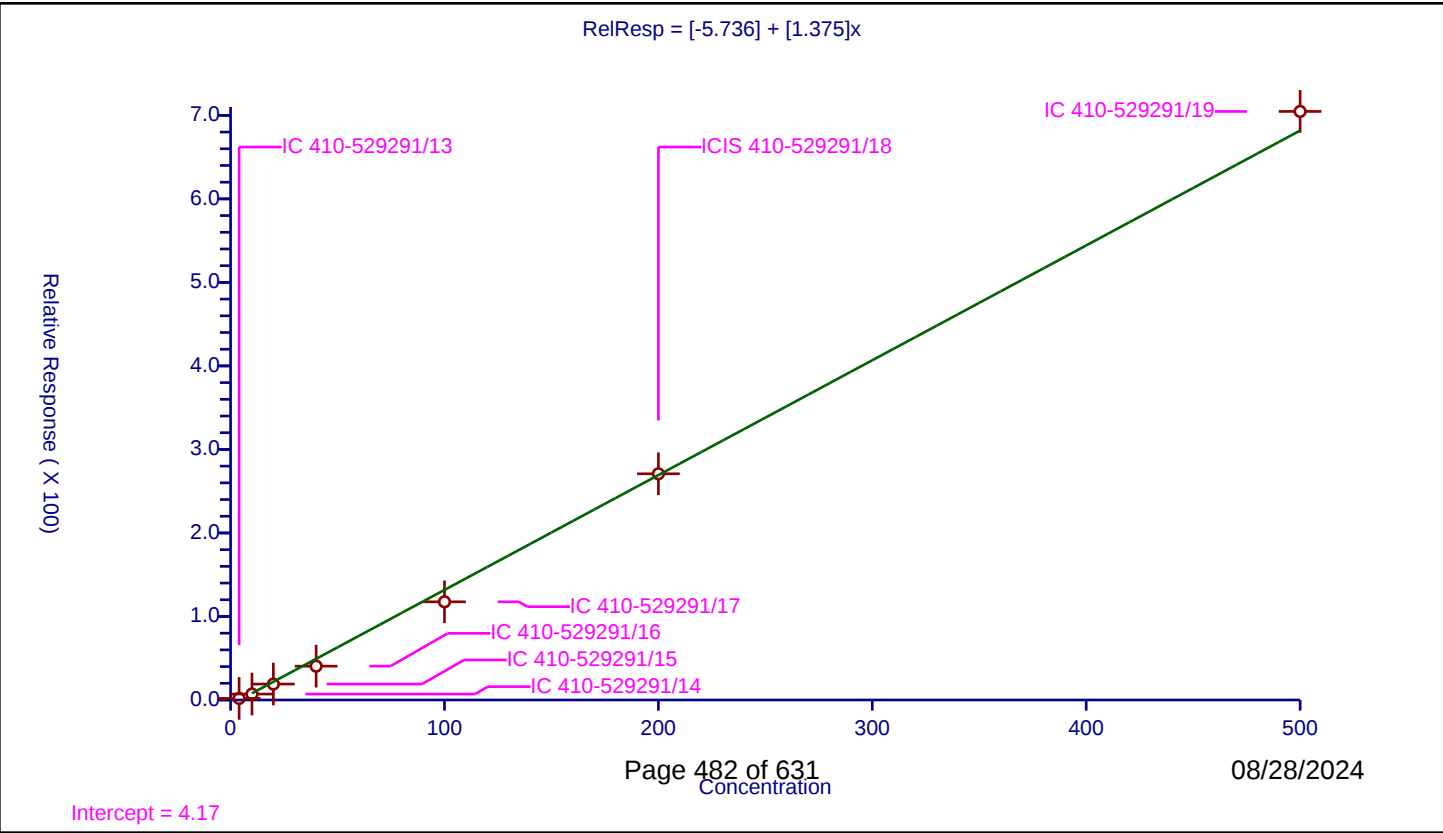
/ Propionitrile

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	-5.736
Slope:	1.375
Error Coefficients	

Relative Standard Deviation: 20.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	4.0	1.901326	50.0	98405.0	0.475332	Y
2	IC 410-529291/14	10.0	7.096078	50.0	101542.0	0.709608	Y
3	IC 410-529291/15	20.0	19.074734	50.0	102122.0	0.953737	Y
4	IC 410-529291/16	40.0	40.492022	50.0	99711.0	1.012301	Y
5	IC 410-529291/17	100.0	117.53931	50.0	110278.0	1.175393	Y
6	ICIS 410-529291/18	200.0	270.840433	50.0	107980.0	1.354202	Y
7	IC 410-529291/19	500.0	704.703212	50.0	107501.0	1.409406	Y



Calibration

/ Methacrylonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

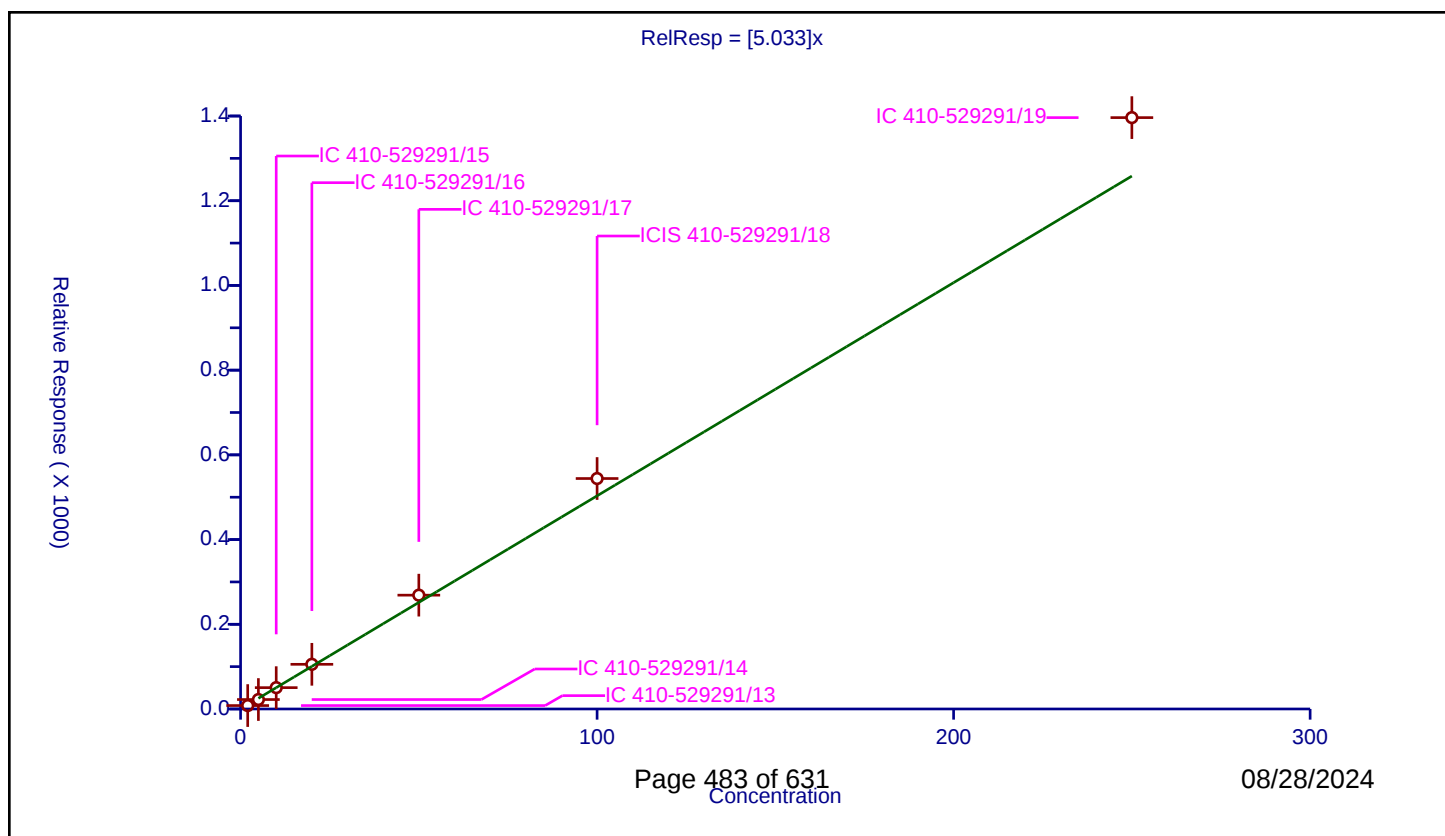
Curve Coefficients

Intercept: 0
Slope: 5.033

Error Coefficients

Relative Standard Deviation: 11.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	2.0	8.103247	50.0	98405.0	4.051623	Y
2	IC 410-529291/14	5.0	22.312935	50.0	101542.0	4.462587	Y
3	IC 410-529291/15	10.0	50.384344	50.0	102122.0	5.038434	Y
4	IC 410-529291/16	20.0	105.514437	50.0	99711.0	5.275722	Y
5	IC 410-529291/17	50.0	268.720416	50.0	110278.0	5.374408	Y
6	ICIS 410-529291/18	100.0	544.148916	50.0	107980.0	5.441489	Y
7	IC 410-529291/19	250.0	1396.240965	50.0	107501.0	5.584964	Y



Calibration

/ Chlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

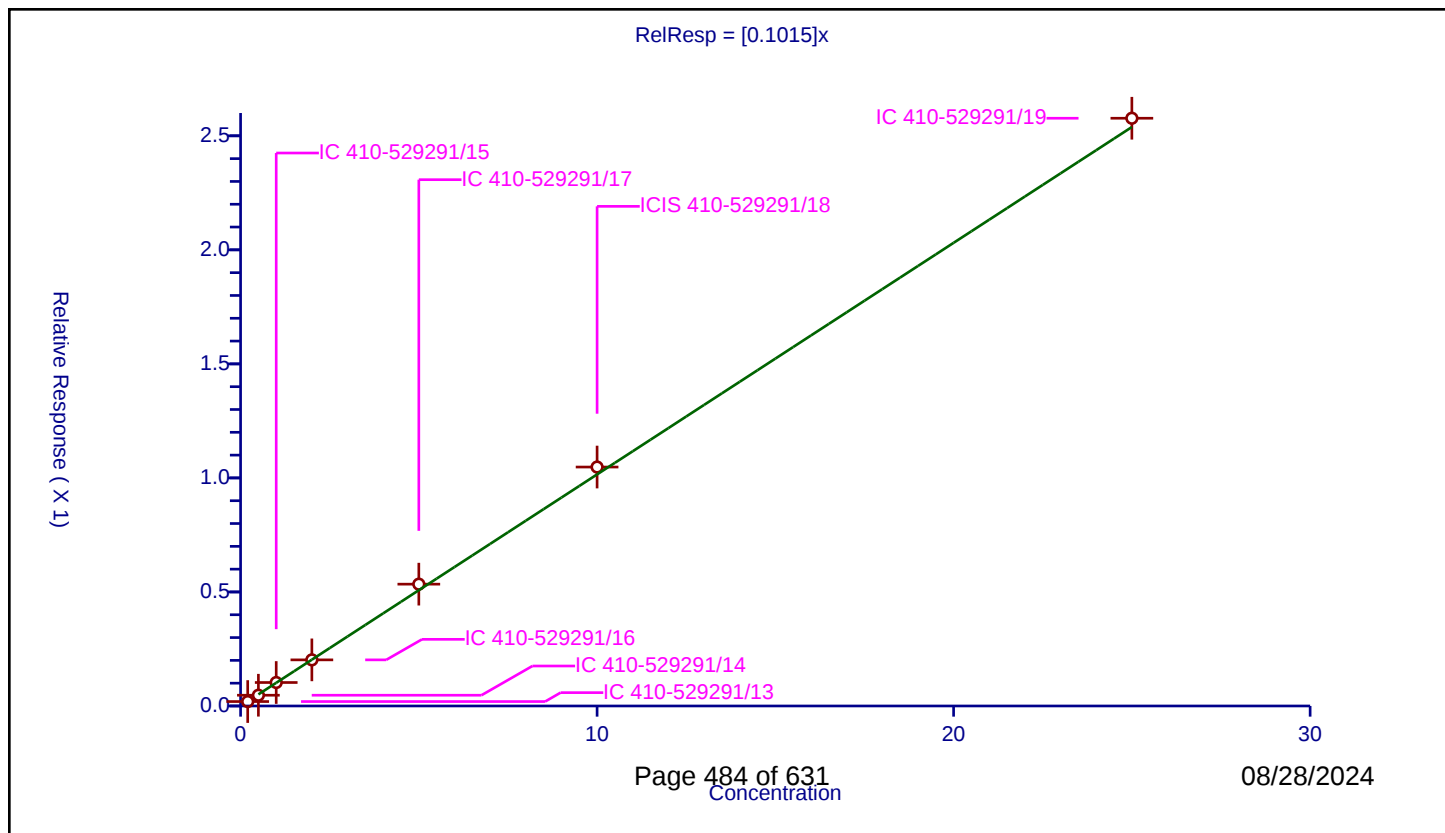
Curve Coefficients

Intercept: 0
Slope: 0.1015

Error Coefficients

Relative Standard Deviation: 4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.019524	10.0	2065681.0	0.097619	Y
2	IC 410-529291/14	0.5	0.047199	10.0	2062328.0	0.094398	Y
3	IC 410-529291/15	1.0	0.102934	10.0	2092414.0	0.102934	Y
4	IC 410-529291/16	2.0	0.202249	10.0	2082929.0	0.101124	Y
5	IC 410-529291/17	5.0	0.534217	10.0	2147537.0	0.106843	Y
6	ICIS 410-529291/18	10.0	1.047665	10.0	2179990.0	0.104767	Y
7	IC 410-529291/19	25.0	2.577128	10.0	2238426.0	0.103085	Y



Calibration

/ Tetrahydrofuran

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

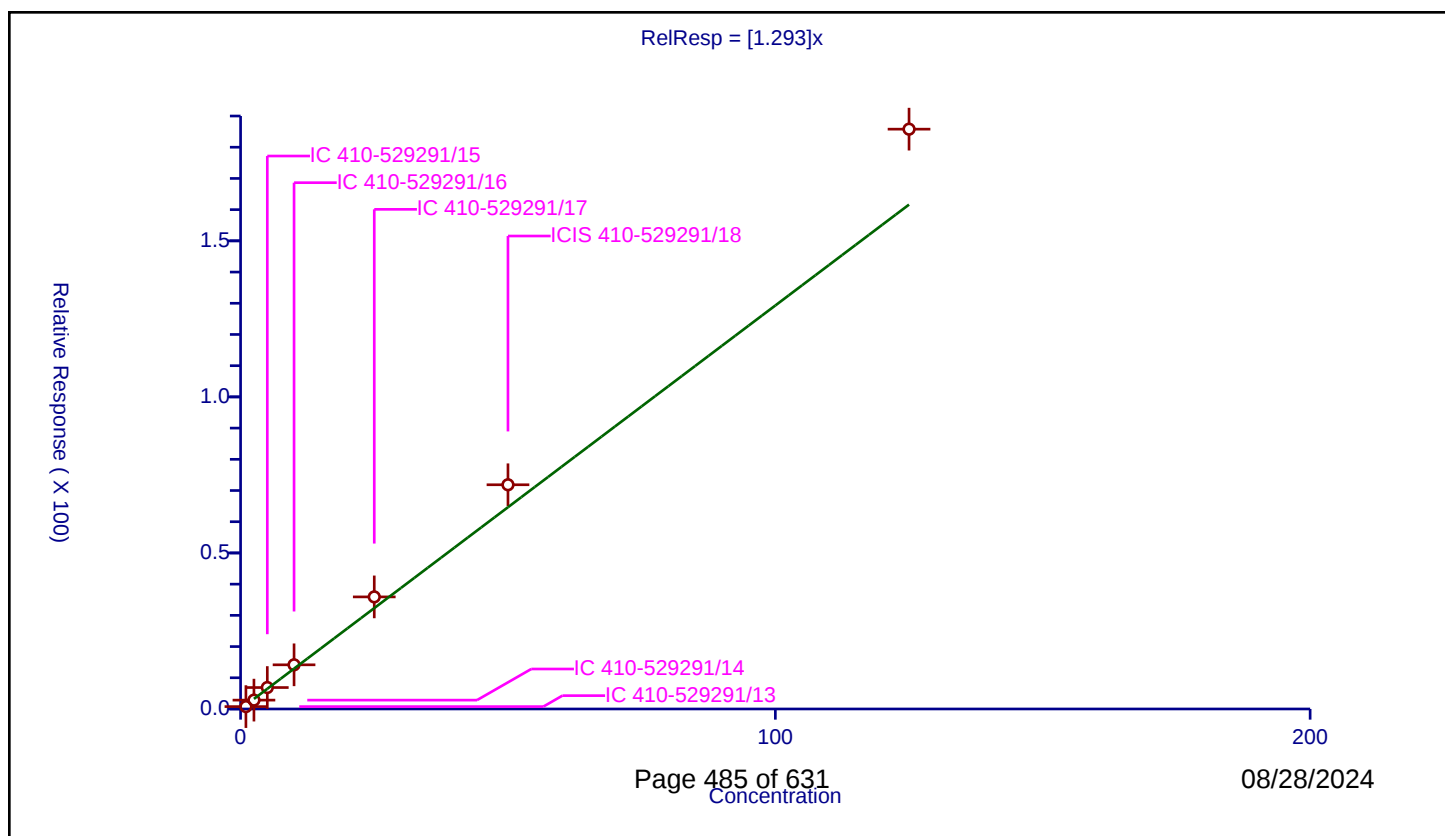
Curve Coefficients

Intercept: 0
Slope: 1.293

Error Coefficients

Relative Standard Deviation: 20.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	1.0	0.765713	50.0	98405.0	0.765713	Y
2	IC 410-529291/14	2.5	2.837742	50.0	101542.0	1.135097	Y
3	IC 410-529291/15	5.0	6.871193	50.0	102122.0	1.374239	Y
4	IC 410-529291/16	10.0	14.156412	50.0	99711.0	1.415641	Y
5	IC 410-529291/17	25.0	35.916502	50.0	110278.0	1.43666	Y
6	ICIS 410-529291/18	50.0	71.843397	50.0	107980.0	1.436868	Y
7	IC 410-529291/19	125.0	185.790365	50.0	107501.0	1.486323	Y



Calibration

/ Chloroform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

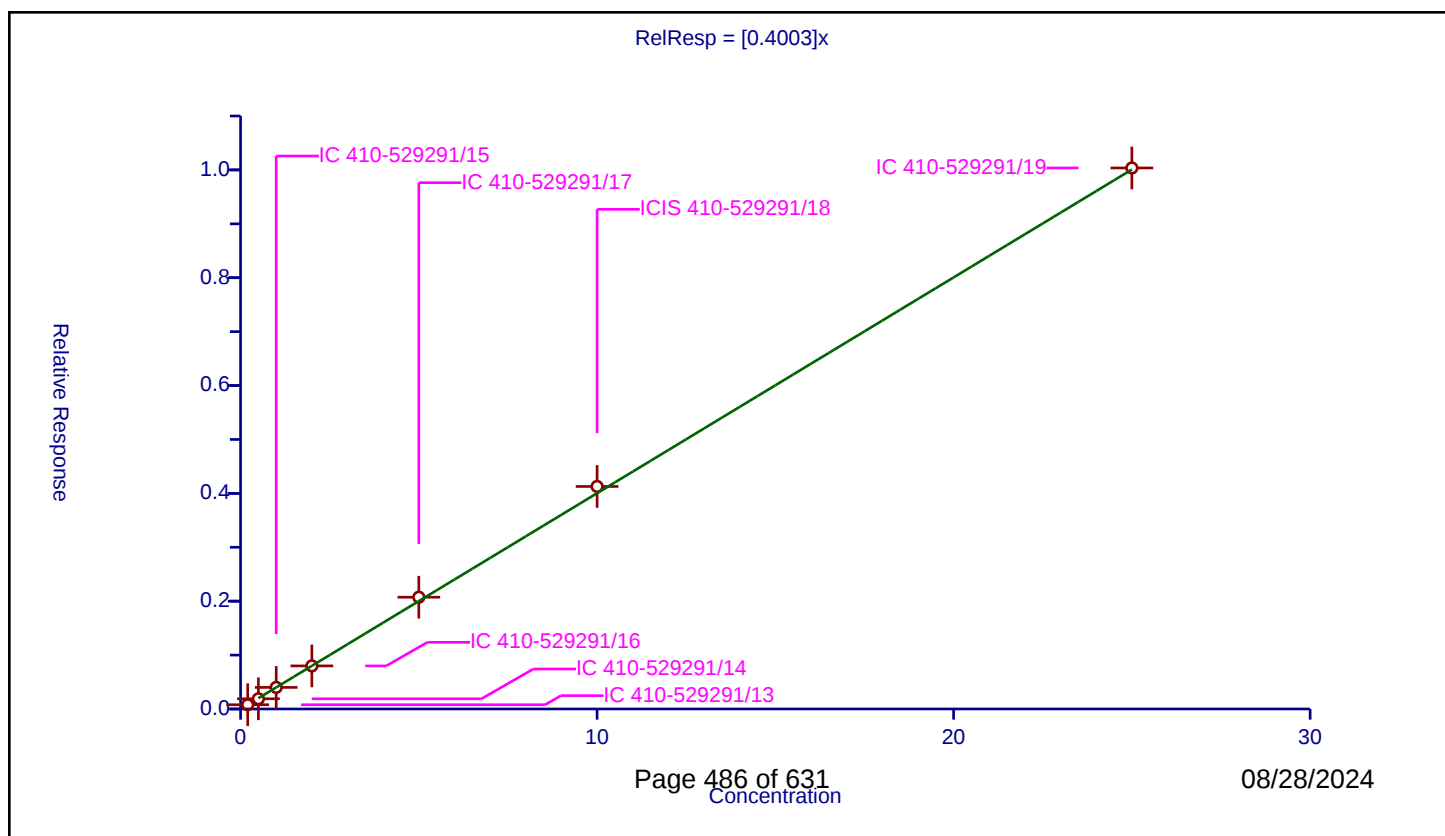
Curve Coefficients

Intercept: 0
Slope: 0.4003

Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.078841	10.0	2065681.0	0.394204	Y
2	IC 410-529291/14	0.5	0.189407	10.0	2062328.0	0.378815	Y
3	IC 410-529291/15	1.0	0.400576	10.0	2092414.0	0.400576	Y
4	IC 410-529291/16	2.0	0.79899	10.0	2082929.0	0.399495	Y
5	IC 410-529291/17	5.0	2.073664	10.0	2147537.0	0.414733	Y
6	ICIS 410-529291/18	10.0	4.127927	10.0	2179990.0	0.412793	Y
7	IC 410-529291/19	25.0	10.036155	10.0	2238426.0	0.401446	Y



Calibration

/ Dibromofluoromethane (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

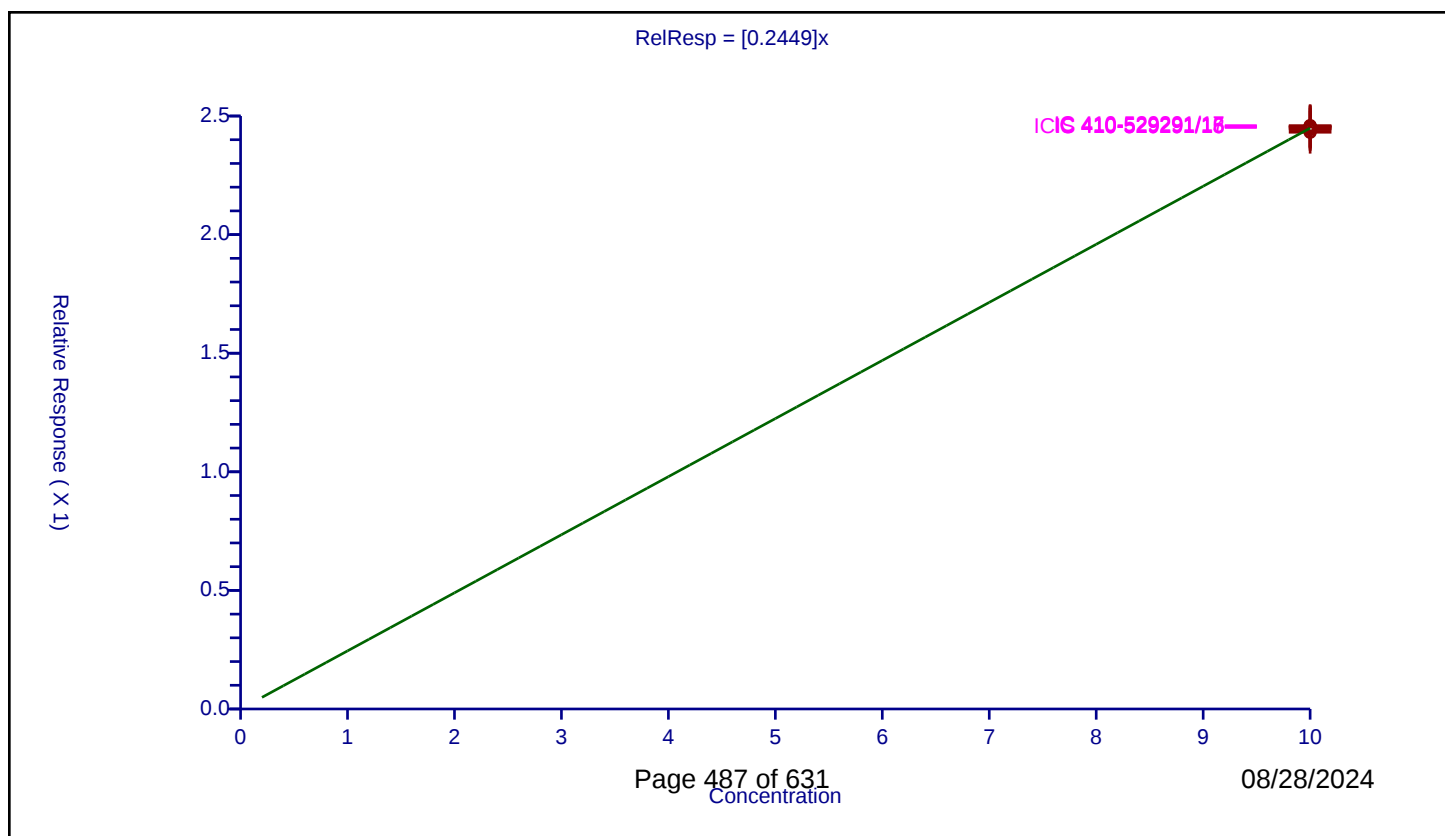
Curve Coefficients

Intercept: 0
 Slope: 0.2449

Error Coefficients

Relative Standard Deviation: 0.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	10.0	2.431566	10.0	2065681.0	0.243157	Y
2	IC 410-529291/14	10.0	2.442536	10.0	2062328.0	0.244254	Y
3	IC 410-529291/15	10.0	2.456115	10.0	2092414.0	0.245612	Y
4	IC 410-529291/16	10.0	2.454697	10.0	2082929.0	0.24547	Y
5	IC 410-529291/17	10.0	2.459553	10.0	2147537.0	0.245955	Y
6	ICIS 410-529291/18	10.0	2.451745	10.0	2179990.0	0.245175	Y
7	IC 410-529291/19	10.0	2.445906	10.0	2238426.0	0.244591	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

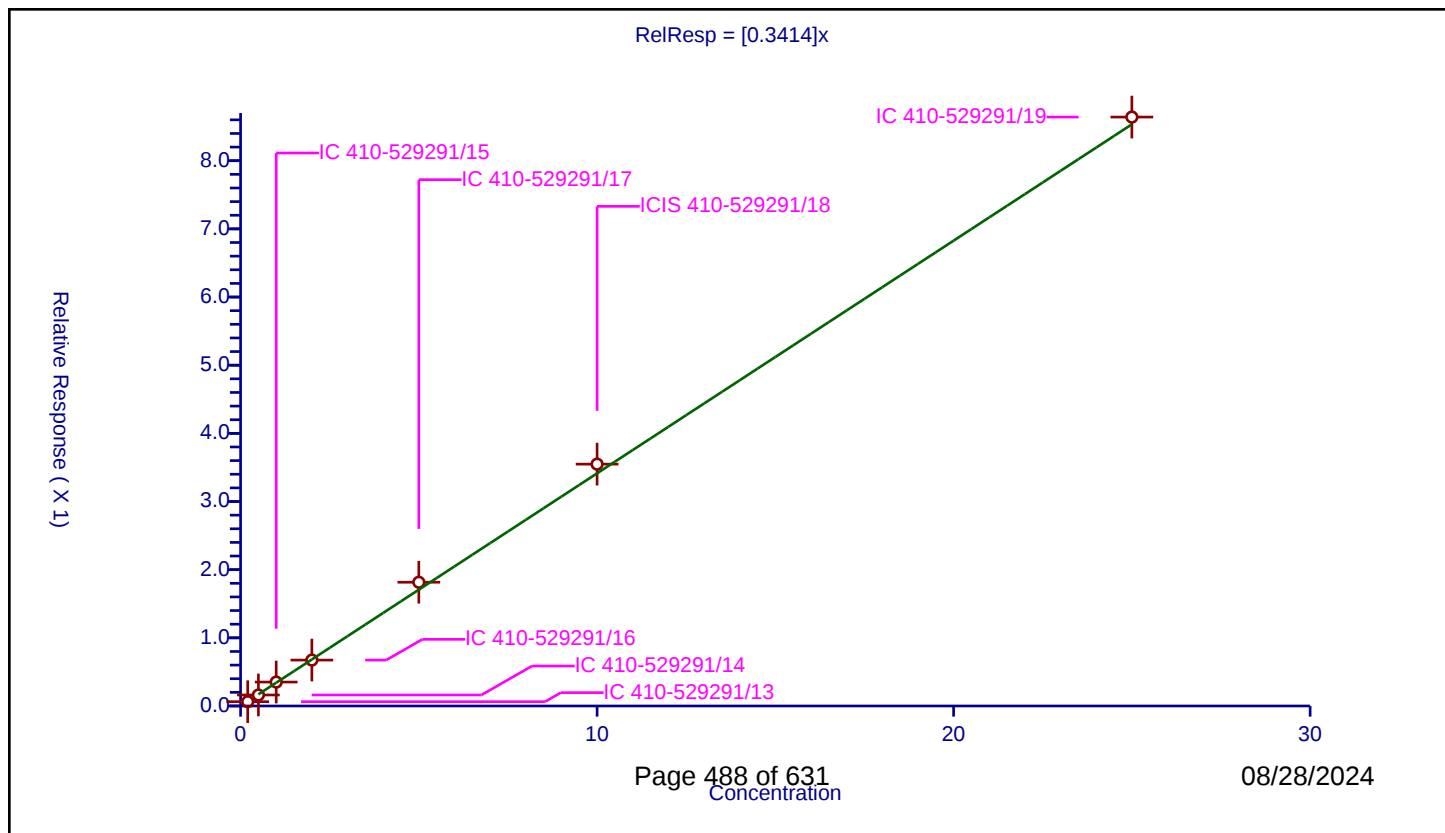
Curve Coefficients

Intercept: 0
 Slope: 0.3414

Error Coefficients

Relative Standard Deviation: 5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.063074	10.0	2065681.0	0.315368	Y
2	IC 410-529291/14	0.5	0.161395	10.0	2062328.0	0.322791	Y
3	IC 410-529291/15	1.0	0.351006	10.0	2092414.0	0.351006	Y
4	IC 410-529291/16	2.0	0.67359	10.0	2082929.0	0.336795	Y
5	IC 410-529291/17	5.0	1.815601	10.0	2147537.0	0.36312	Y
6	ICIS 410-529291/18	10.0	3.548319	10.0	2179990.0	0.354832	Y
7	IC 410-529291/19	25.0	8.640491	10.0	2238426.0	0.34562	Y



Calibration

/ Cyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

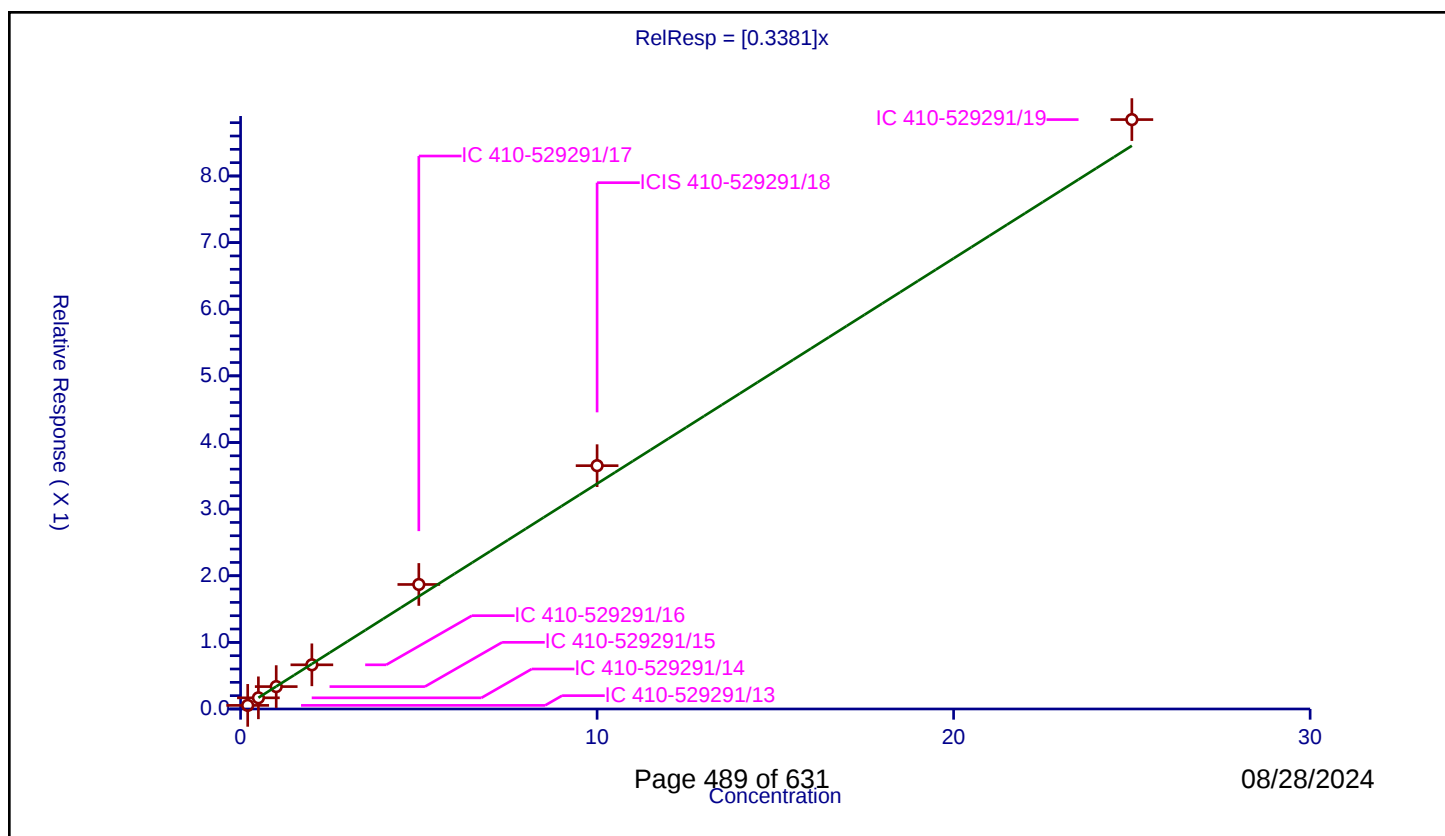
Curve Coefficients

Intercept: 0
Slope: 0.3381

Error Coefficients

Relative Standard Deviation: 9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.054273	10.0	2065681.0	0.271363	Y
2	IC 410-529291/14	0.5	0.167587	10.0	2062328.0	0.335175	Y
3	IC 410-529291/15	1.0	0.336105	10.0	2092414.0	0.336105	Y
4	IC 410-529291/16	2.0	0.662999	10.0	2082929.0	0.3315	Y
5	IC 410-529291/17	5.0	1.869048	10.0	2147537.0	0.37381	Y
6	ICIS 410-529291/18	10.0	3.652173	10.0	2179990.0	0.365217	Y
7	IC 410-529291/19	25.0	8.846162	10.0	2238426.0	0.353846	Y



Calibration

/ Carbon tetrachloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

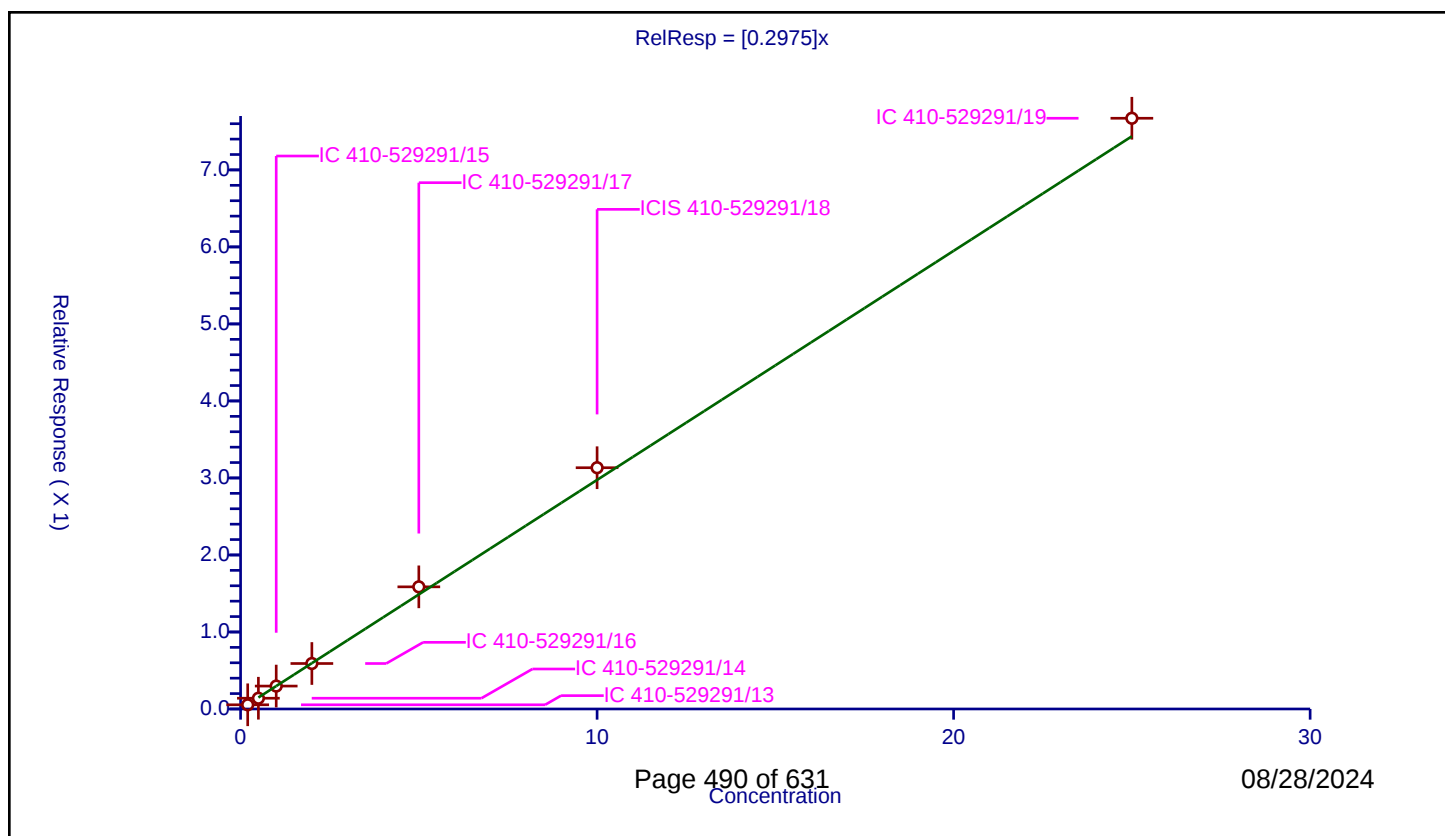
Curve Coefficients

Intercept: 0
Slope: 0.2975

Error Coefficients

Relative Standard Deviation: 5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.054476	10.0	2065681.0	0.27238	Y
2	IC 410-529291/14	0.5	0.139857	10.0	2062328.0	0.279713	Y
3	IC 410-529291/15	1.0	0.297494	10.0	2092414.0	0.297494	Y
4	IC 410-529291/16	2.0	0.590591	10.0	2082929.0	0.295296	Y
5	IC 410-529291/17	5.0	1.585961	10.0	2147537.0	0.317192	Y
6	ICIS 410-529291/18	10.0	3.132849	10.0	2179990.0	0.313285	Y
7	IC 410-529291/19	25.0	7.670944	10.0	2238426.0	0.306838	Y



Calibration

/ 1,1-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

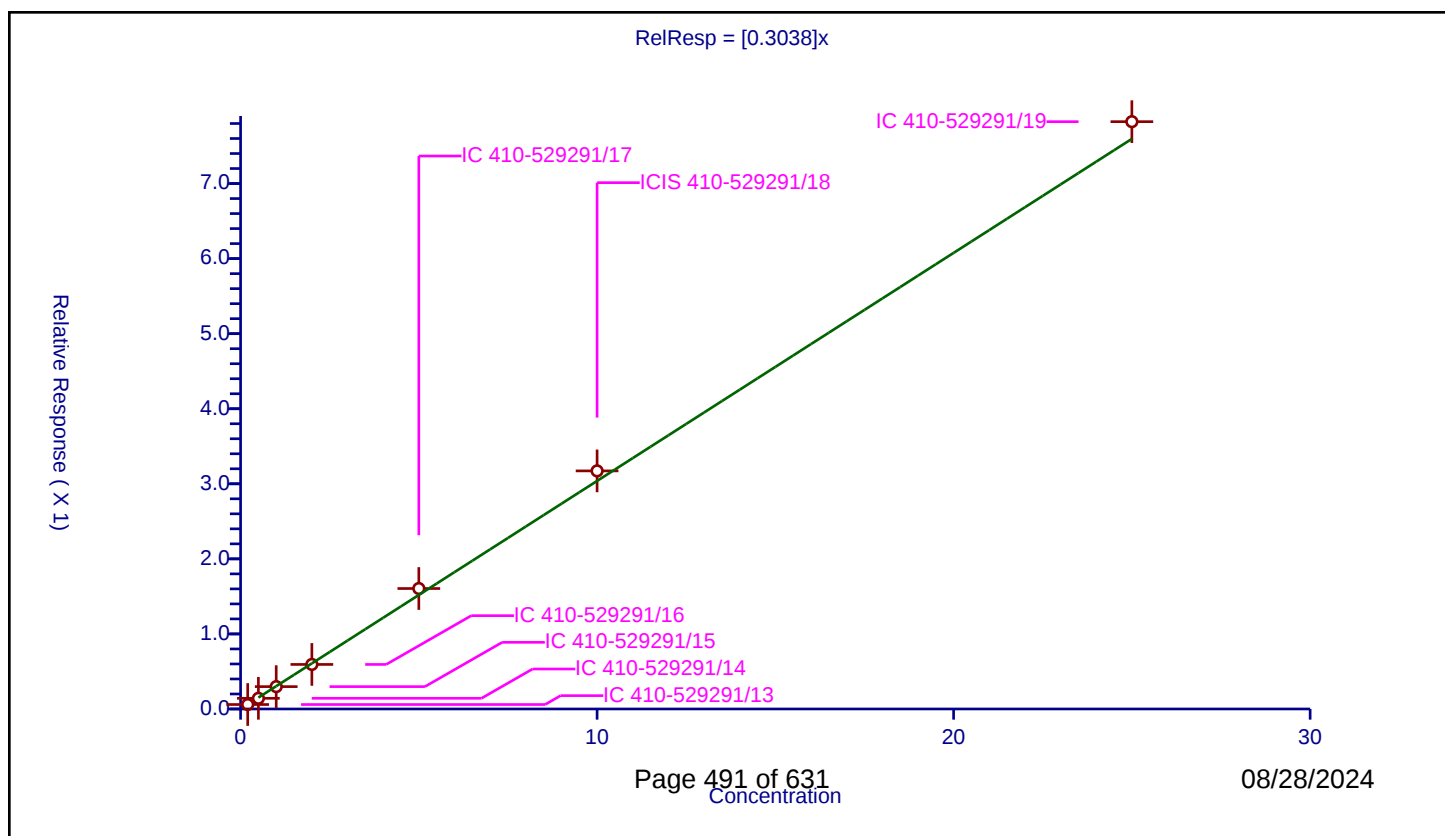
Curve Coefficients

Intercept: 0
Slope: 0.3038

Error Coefficients

Relative Standard Deviation: 4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.05937	10.0	2065681.0	0.296851	Y
2	IC 410-529291/14	0.5	0.142121	10.0	2062328.0	0.284242	Y
3	IC 410-529291/15	1.0	0.297795	10.0	2092414.0	0.297795	Y
4	IC 410-529291/16	2.0	0.593414	10.0	2082929.0	0.296707	Y
5	IC 410-529291/17	5.0	1.60488	10.0	2147537.0	0.320976	Y
6	ICIS 410-529291/18	10.0	3.172125	10.0	2179990.0	0.317212	Y
7	IC 410-529291/19	25.0	7.824632	10.0	2238426.0	0.312985	Y



Calibration

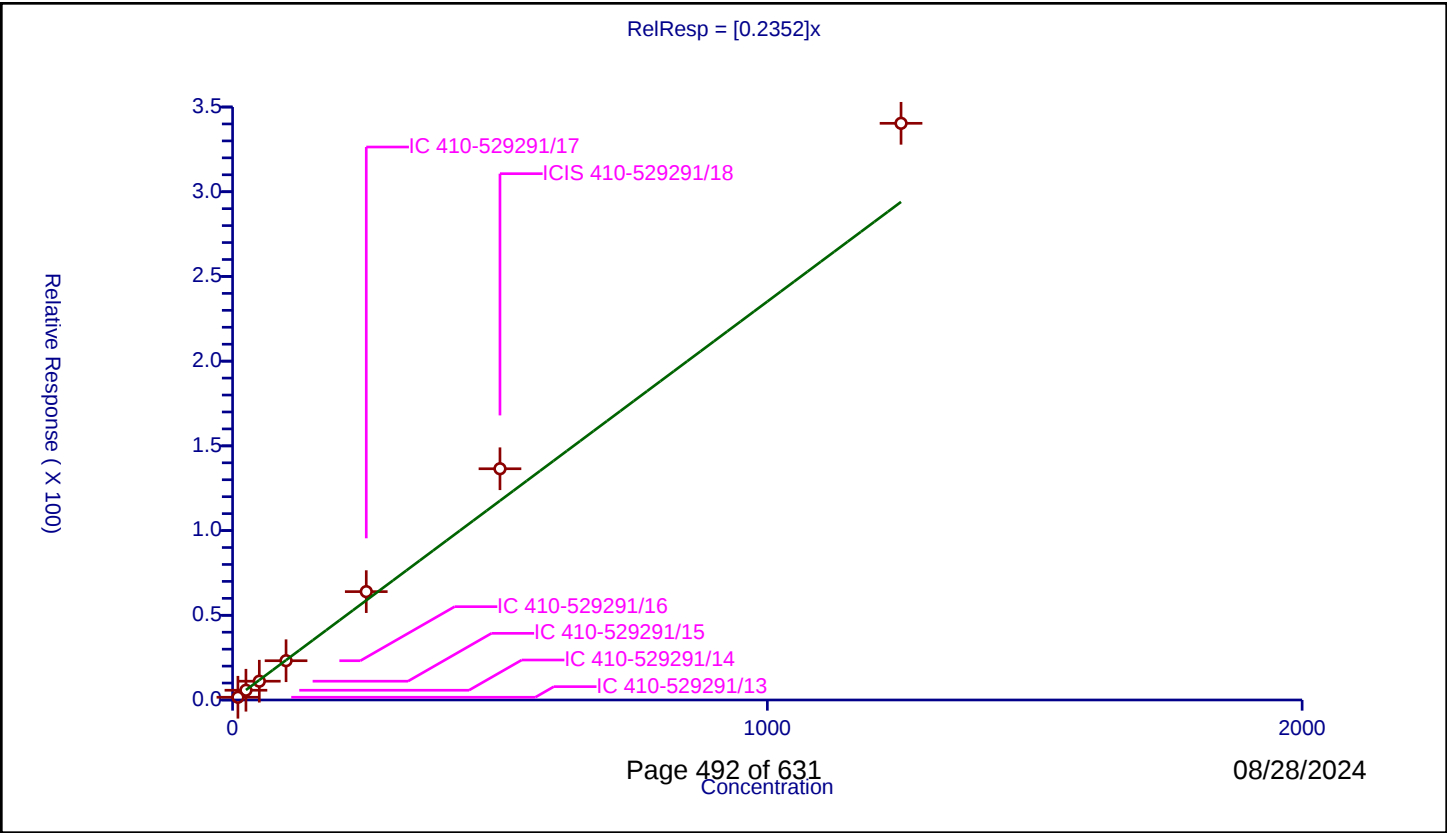
/ Isobutyl alcohol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2352
Error Coefficients	

Relative Standard Deviation: 16.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	10.0	1.613231	50.0	98405.0	0.161323	Y
2	IC 410-529291/14	25.0	5.755254	50.0	101542.0	0.23021	Y
3	IC 410-529291/15	50.0	11.096042	50.0	102122.0	0.221921	Y
4	IC 410-529291/16	100.0	23.180993	50.0	99711.0	0.23181	Y
5	IC 410-529291/17	250.0	63.956546	50.0	110278.0	0.255826	Y
6	ICIS 410-529291/18	500.0	136.495647	50.0	107980.0	0.272991	Y
7	IC 410-529291/19	1250.0	340.38381	50.0	107501.0	0.272307	Y



Calibration

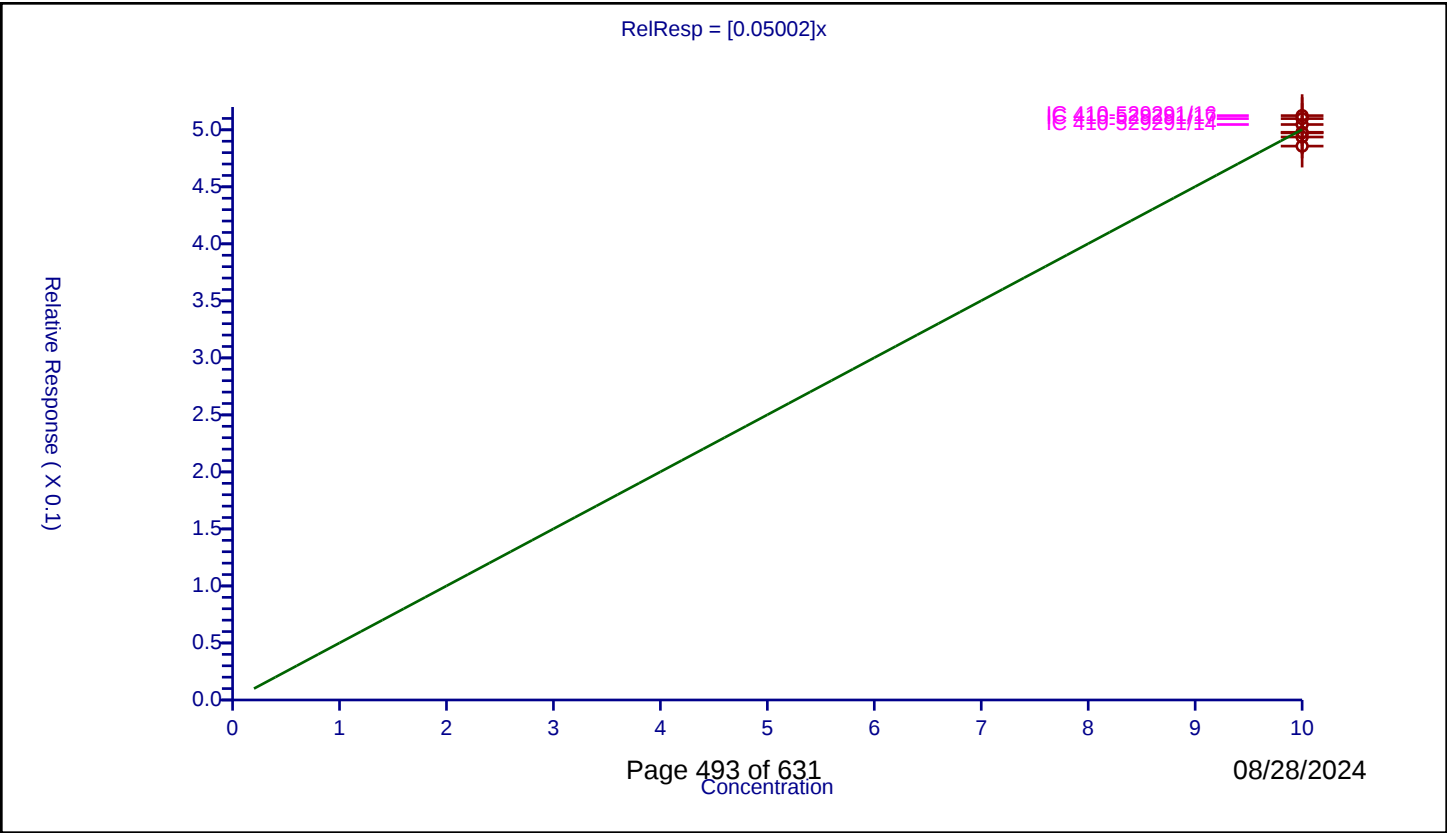
/ 1,2-Dichloroethane-d4 (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.05002
Error Coefficients	

Relative Standard Deviation: 1.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	10.0	0.485724	10.0	2065681.0	0.048572	Y
2	IC 410-529291/14	10.0	0.504658	10.0	2062328.0	0.050466	Y
3	IC 410-529291/15	10.0	0.497851	10.0	2092414.0	0.049785	Y
4	IC 410-529291/16	10.0	0.51248	10.0	2082929.0	0.051248	Y
5	IC 410-529291/17	10.0	0.509817	10.0	2147537.0	0.050982	Y
6	ICIS 410-529291/18	10.0	0.49369	10.0	2179990.0	0.049369	Y
7	IC 410-529291/19	10.0	0.497332	10.0	2238426.0	0.049733	Y



Calibration

/ Benzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

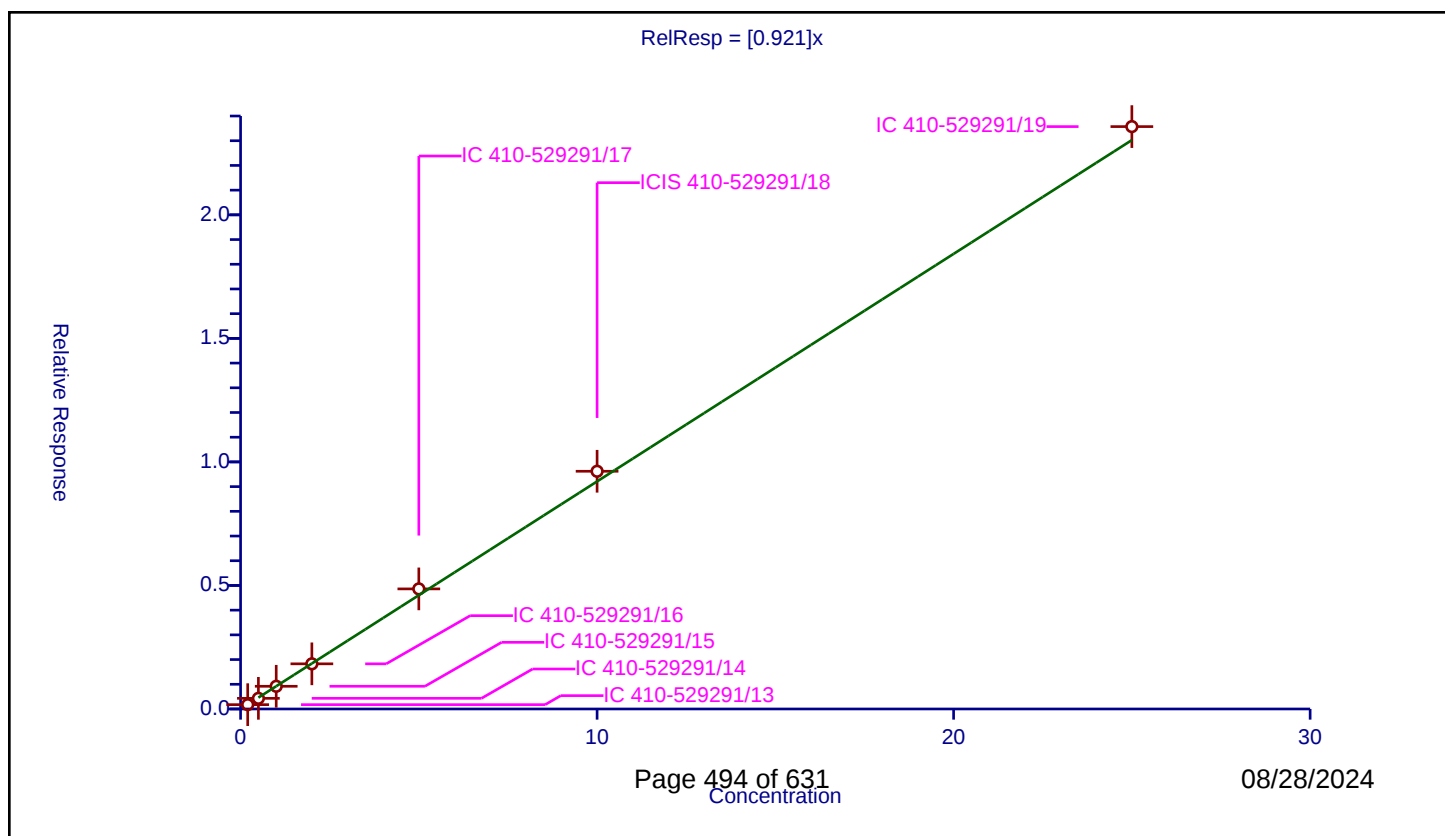
Curve Coefficients

Intercept: 0
Slope: 0.921

Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.175075	10.0	2065681.0	0.875377	Y
2	IC 410-529291/14	0.5	0.431163	10.0	2062328.0	0.862326	Y
3	IC 410-529291/15	1.0	0.918504	10.0	2092414.0	0.918504	Y
4	IC 410-529291/16	2.0	1.827321	10.0	2082929.0	0.913661	Y
5	IC 410-529291/17	5.0	4.860969	10.0	2147537.0	0.972194	Y
6	ICIS 410-529291/18	10.0	9.621292	10.0	2179990.0	0.962129	Y
7	IC 410-529291/19	25.0	23.571724	10.0	2238426.0	0.942869	Y



Calibration

/ 1,2-Dichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

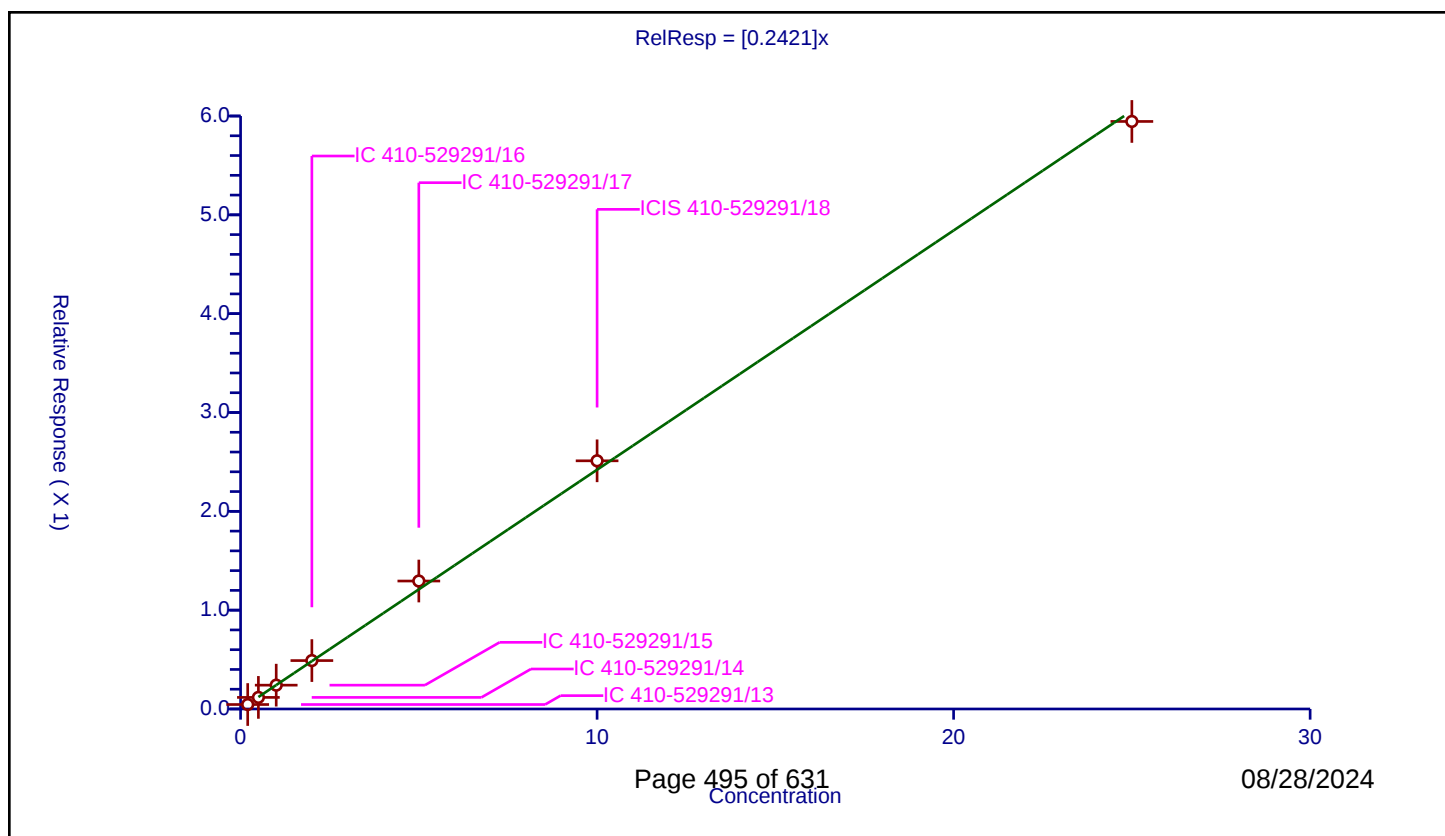
Curve Coefficients

Intercept: 0
Slope: 0.2421

Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.045249	10.0	2065681.0	0.226245	Y
2	IC 410-529291/14	0.5	0.11729	10.0	2062328.0	0.23458	Y
3	IC 410-529291/15	1.0	0.241052	10.0	2092414.0	0.241052	Y
4	IC 410-529291/16	2.0	0.489897	10.0	2082929.0	0.244948	Y
5	IC 410-529291/17	5.0	1.294837	10.0	2147537.0	0.258967	Y
6	ICIS 410-529291/18	10.0	2.51108	10.0	2179990.0	0.251108	Y
7	IC 410-529291/19	25.0	5.945061	10.0	2238426.0	0.237802	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

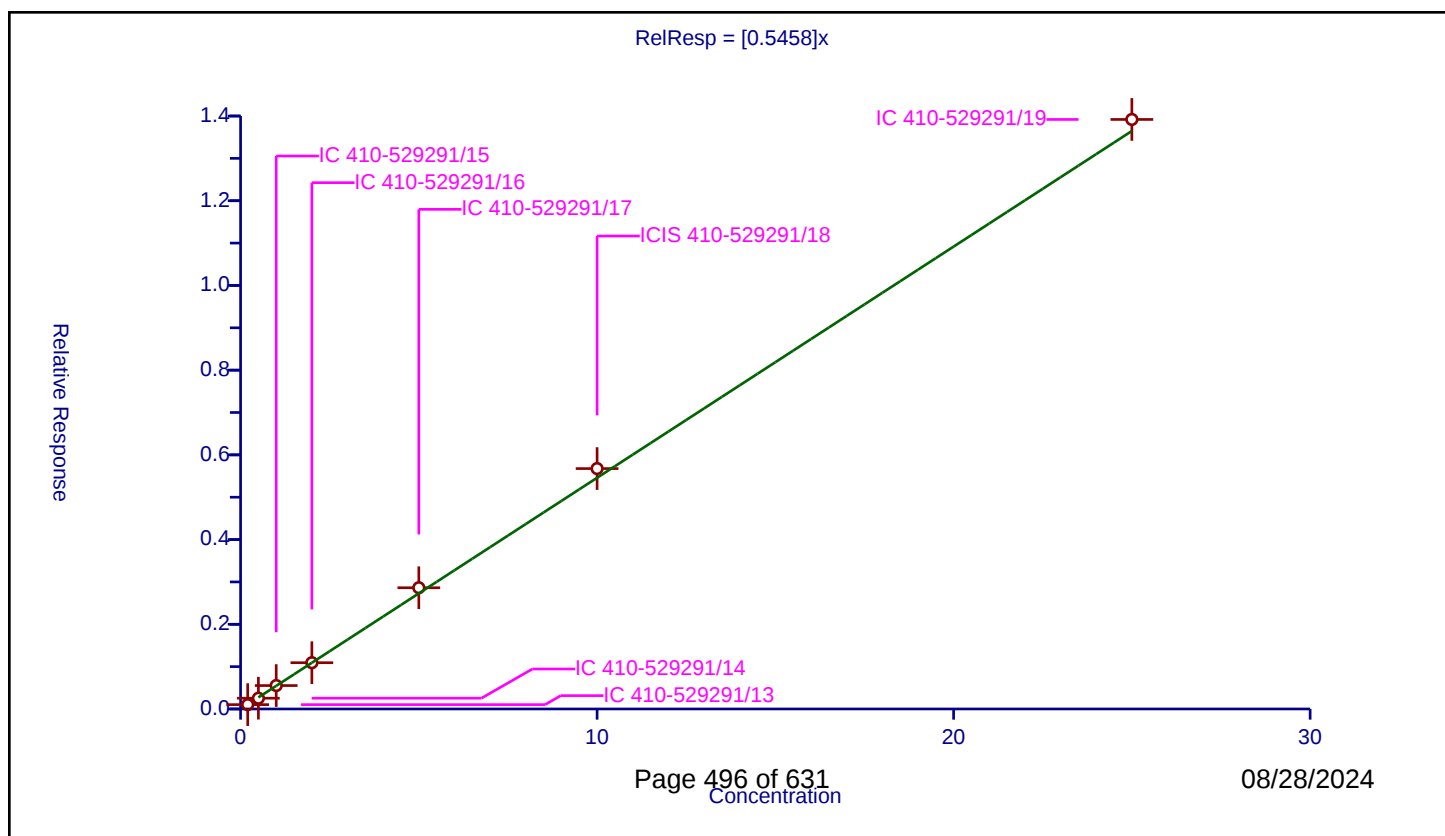
Curve Coefficients

Intercept: 0
Slope: 0.5458

Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.102964	10.0	2065681.0	0.514818	Y
2	IC 410-529291/14	0.5	0.254732	10.0	2062328.0	0.509463	Y
3	IC 410-529291/15	1.0	0.553385	10.0	2092414.0	0.553385	Y
4	IC 410-529291/16	2.0	1.092735	10.0	2082929.0	0.546368	Y
5	IC 410-529291/17	5.0	2.862419	10.0	2147537.0	0.572484	Y
6	ICIS 410-529291/18	10.0	5.675879	10.0	2179990.0	0.567588	Y
7	IC 410-529291/19	25.0	13.91862	10.0	2238426.0	0.556745	Y



Calibration

/ n-Heptane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

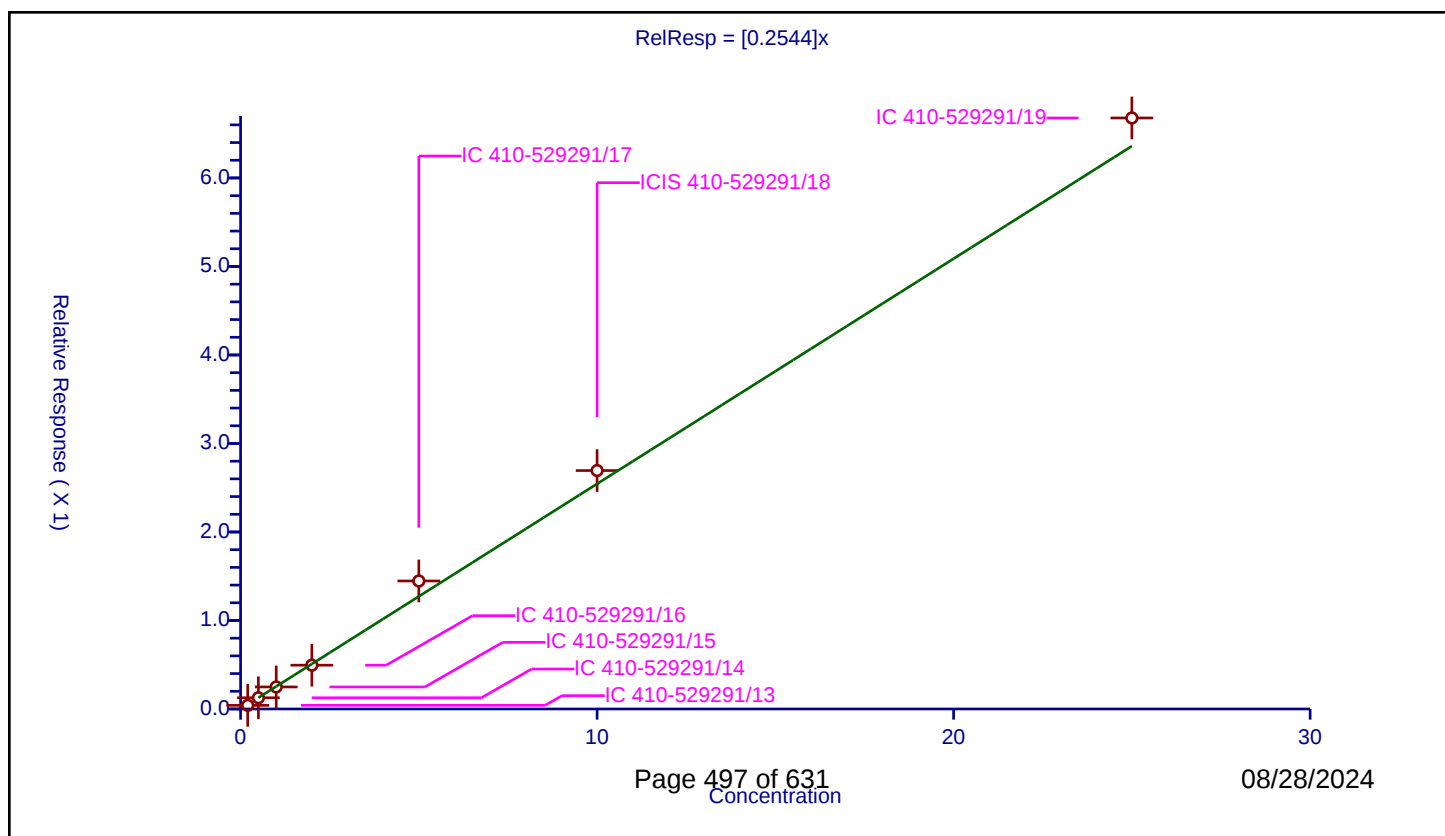
Curve Coefficients

Intercept: 0
Slope: 0.2544

Error Coefficients

Relative Standard Deviation: 10.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.041042	10.0	2065681.0	0.205211	Y
2	IC 410-529291/14	0.5	0.126648	10.0	2062328.0	0.253296	Y
3	IC 410-529291/15	1.0	0.248923	10.0	2092414.0	0.248923	Y
4	IC 410-529291/16	2.0	0.495038	10.0	2082929.0	0.247519	Y
5	IC 410-529291/17	5.0	1.446401	10.0	2147537.0	0.28928	Y
6	ICIS 410-529291/18	10.0	2.694127	10.0	2179990.0	0.269413	Y
7	IC 410-529291/19	25.0	6.677867	10.0	2238426.0	0.267115	Y



Calibration

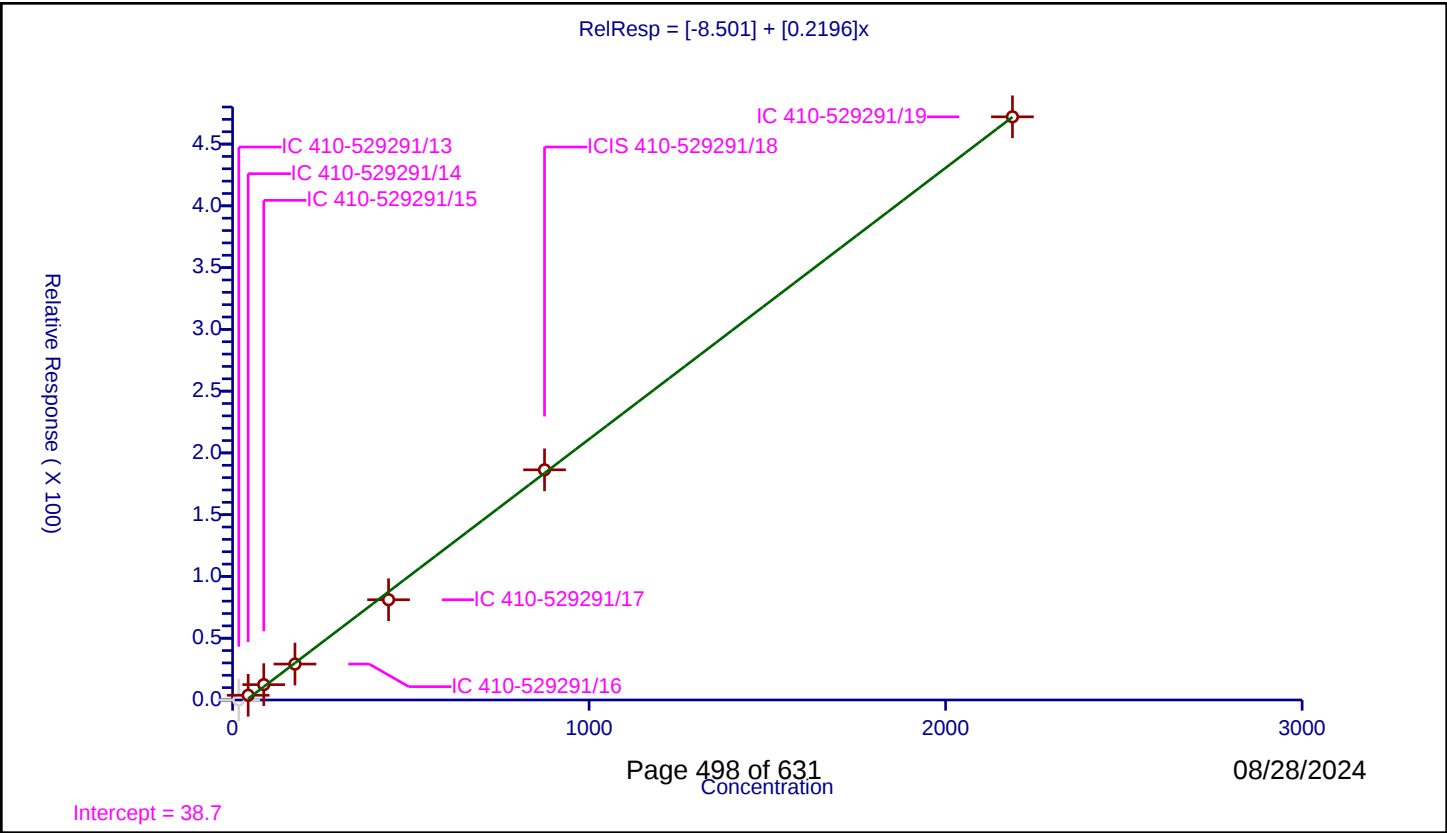
/ n-Butanol

Curve Type: Linear
Weighting: None
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	-8.501
Slope:	0.2196
Error Coefficients	

Relative Standard Deviation: 15.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	17.5	0.0	50.0	98405.0	0.0	N
2	IC 410-529291/14	43.75	3.830927	50.0	101542.0	0.087564	Y
3	IC 410-529291/15	87.5	12.432679	50.0	102122.0	0.142088	Y
4	IC 410-529291/16	175.0	29.08656	50.0	99711.0	0.166209	Y
5	IC 410-529291/17	437.5	81.154446	50.0	110278.0	0.185496	Y
6	ICIS 410-529291/18	875.0	186.31228	50.0	107980.0	0.212928	Y
7	IC 410-529291/19	2187.5	472.053283	50.0	107501.0	0.215796	Y



Calibration

/ Trichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

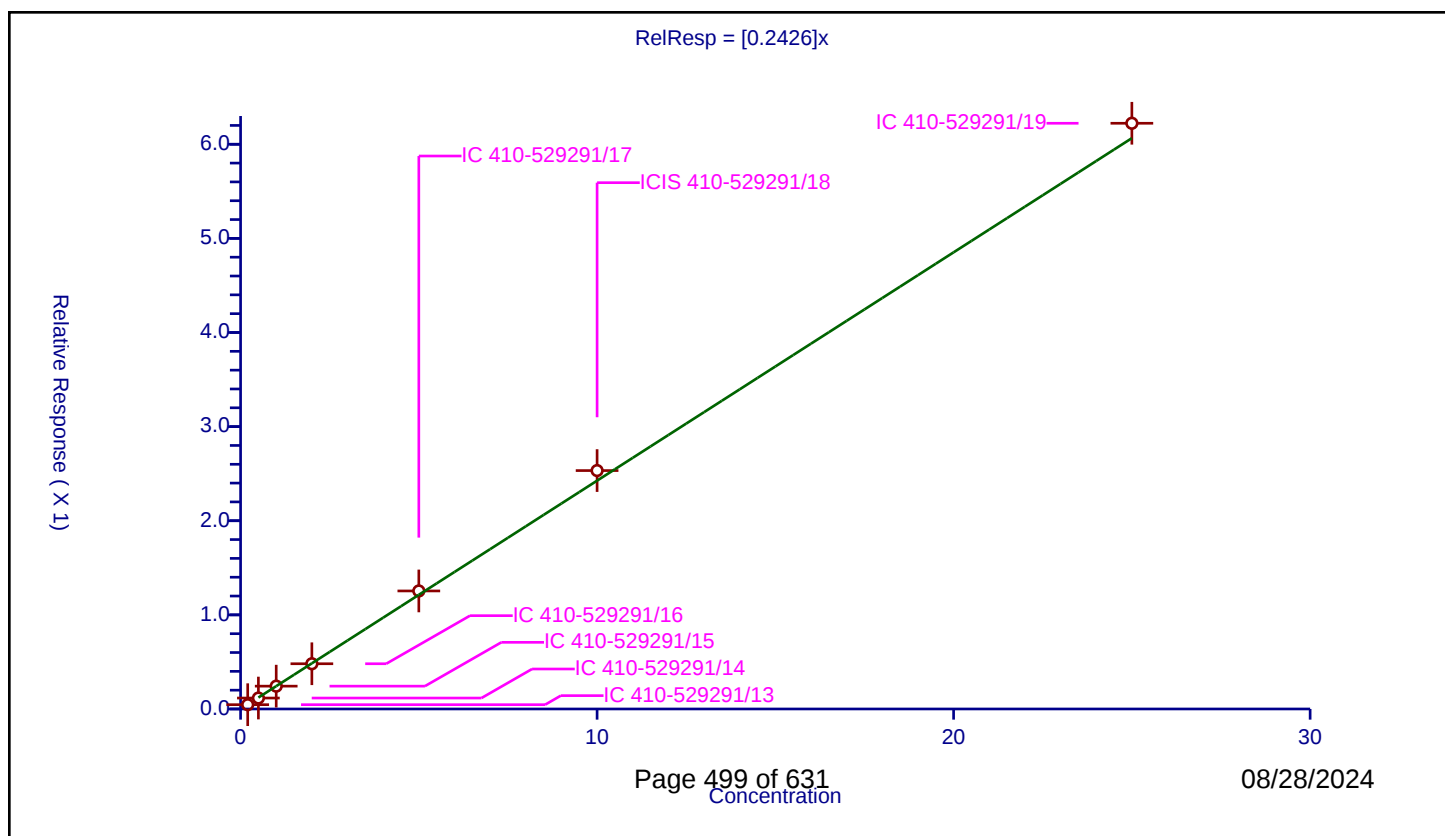
Curve Coefficients

Intercept: 0
Slope: 0.2426

Error Coefficients

Relative Standard Deviation: 3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.045849	10.0	2065681.0	0.229246	Y
2	IC 410-529291/14	0.5	0.116436	10.0	2062328.0	0.232873	Y
3	IC 410-529291/15	1.0	0.242567	10.0	2092414.0	0.242567	Y
4	IC 410-529291/16	2.0	0.480712	10.0	2082929.0	0.240356	Y
5	IC 410-529291/17	5.0	1.253967	10.0	2147537.0	0.250793	Y
6	ICIS 410-529291/18	10.0	2.533048	10.0	2179990.0	0.253305	Y
7	IC 410-529291/19	25.0	6.222877	10.0	2238426.0	0.248915	Y



Calibration

/ Methylcyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

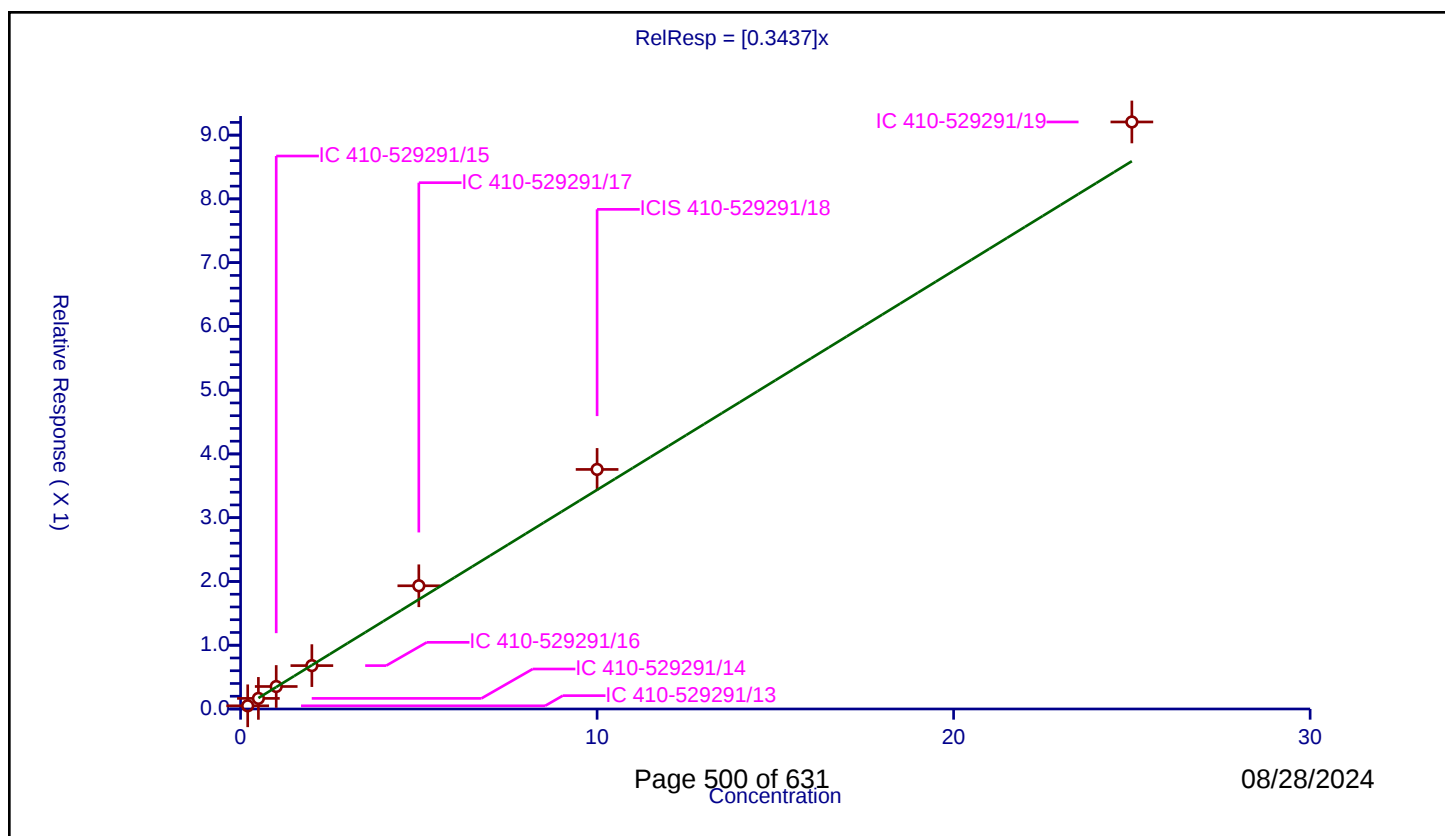
Curve Coefficients

Intercept: 0
Slope: 0.3437

Error Coefficients

Relative Standard Deviation: 13.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.050027	10.0	2065681.0	0.250135	Y
2	IC 410-529291/14	0.5	0.166099	10.0	2062328.0	0.332197	Y
3	IC 410-529291/15	1.0	0.352621	10.0	2092414.0	0.352621	Y
4	IC 410-529291/16	2.0	0.680431	10.0	2082929.0	0.340216	Y
5	IC 410-529291/17	5.0	1.932502	10.0	2147537.0	0.3865	Y
6	ICIS 410-529291/18	10.0	3.757026	10.0	2179990.0	0.375703	Y
7	IC 410-529291/19	25.0	9.206523	10.0	2238426.0	0.368261	Y



Calibration

/ 1,2-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

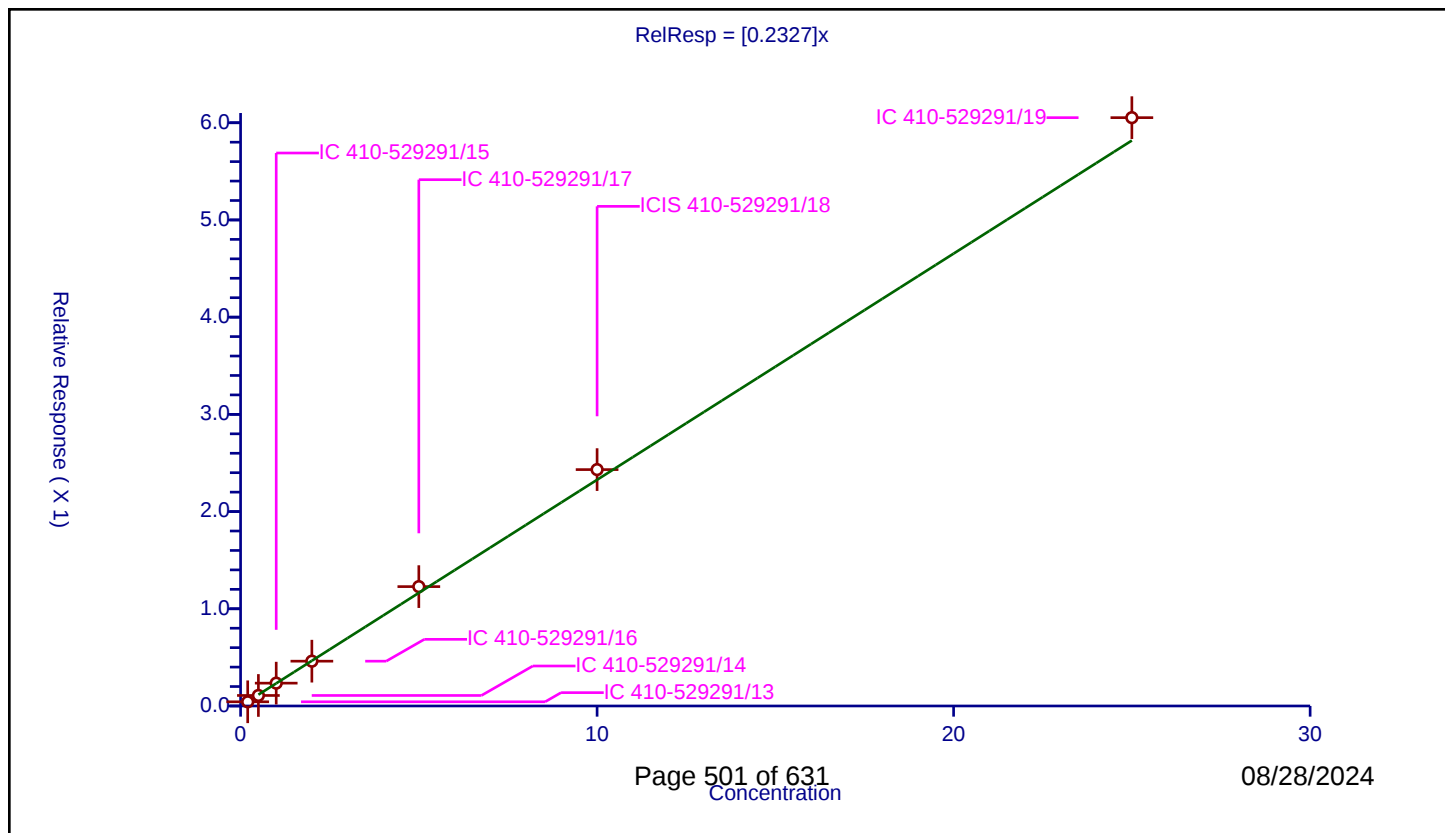
Curve Coefficients

Intercept: 0
 Slope: 0.2327

Error Coefficients

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.043187	10.0	2065681.0	0.215934	Y
2	IC 410-529291/14	0.5	0.108285	10.0	2062328.0	0.216571	Y
3	IC 410-529291/15	1.0	0.235011	10.0	2092414.0	0.235011	Y
4	IC 410-529291/16	2.0	0.460913	10.0	2082929.0	0.230457	Y
5	IC 410-529291/17	5.0	1.228049	10.0	2147537.0	0.24561	Y
6	ICIS 410-529291/18	10.0	2.431663	10.0	2179990.0	0.243166	Y
7	IC 410-529291/19	25.0	6.052324	10.0	2238426.0	0.242093	Y



Calibration

/ Methyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

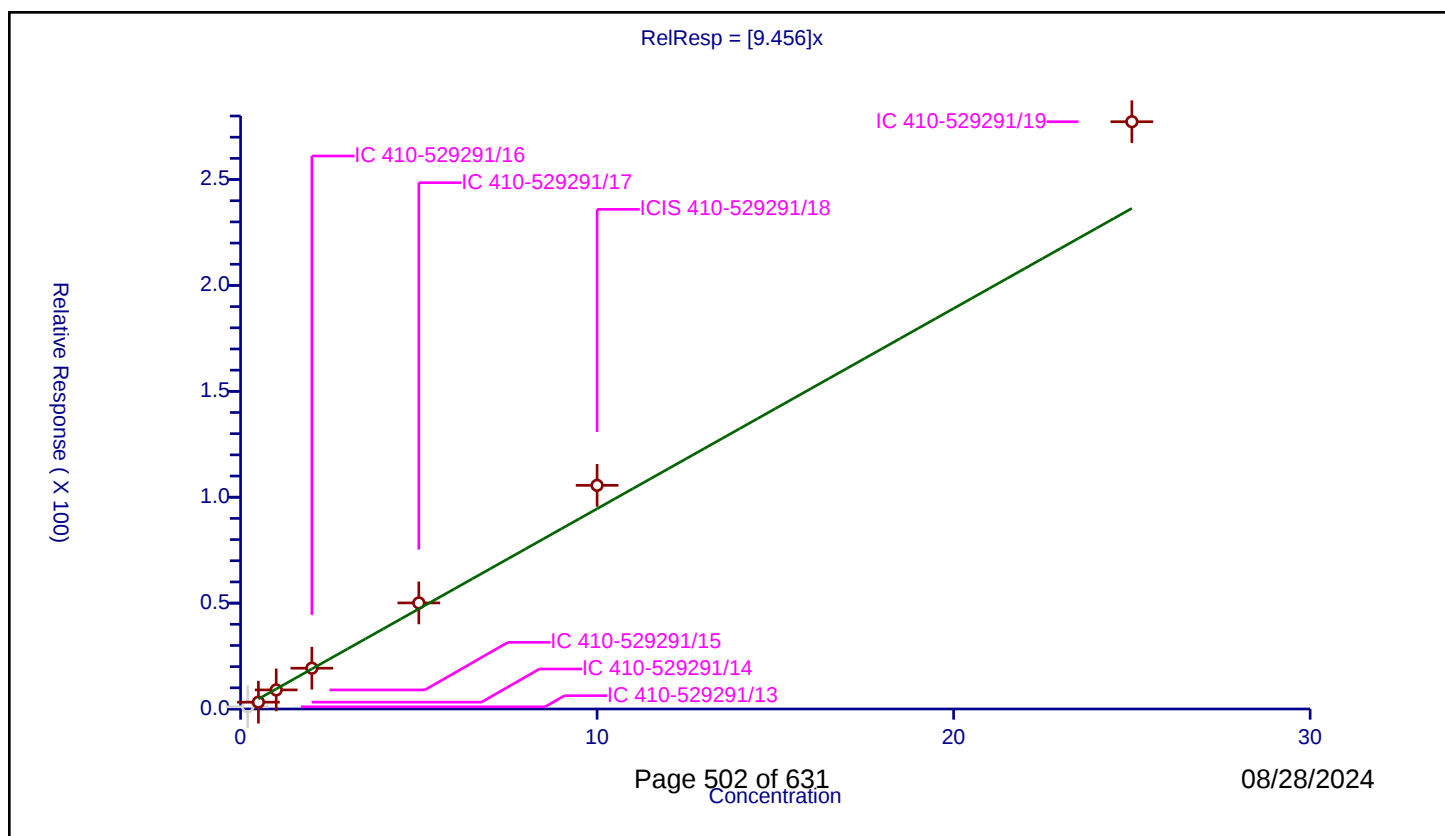
Curve Coefficients

Intercept: 0
Slope: 9.456

Error Coefficients

Relative Standard Deviation: 17.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	1.041614	50.0	98405.0	5.208069	N
2	IC 410-529291/14	0.5	3.213941	50.0	101542.0	6.427882	Y
3	IC 410-529291/15	1.0	9.008343	50.0	102122.0	9.008343	Y
4	IC 410-529291/16	2.0	19.259159	50.0	99711.0	9.629579	Y
5	IC 410-529291/17	5.0	50.081159	50.0	110278.0	10.016232	Y
6	ICIS 410-529291/18	10.0	105.603816	50.0	107980.0	10.560382	Y
7	IC 410-529291/19	25.0	277.304862	50.0	107501.0	11.092194	Y



Calibration

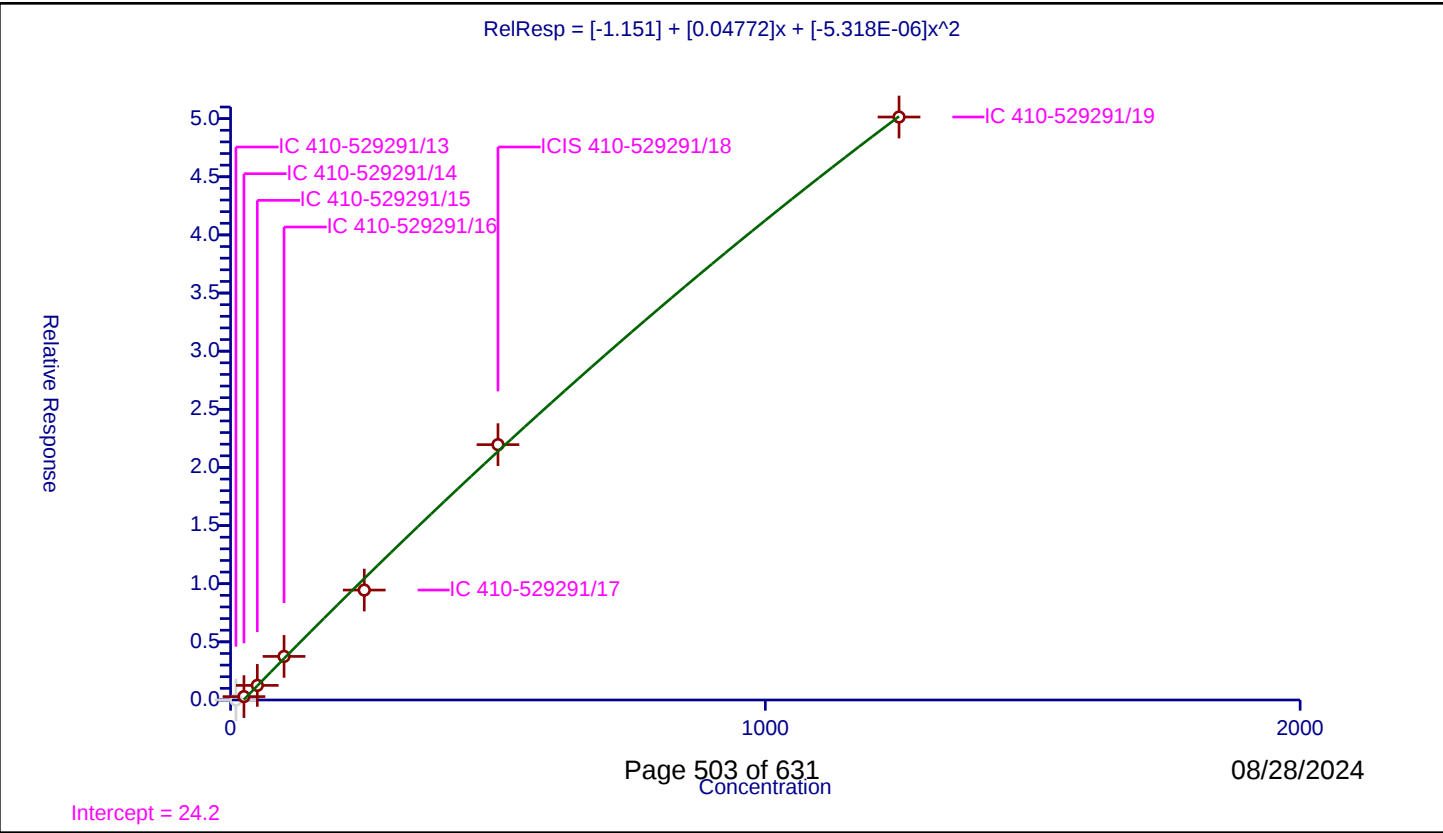
/ 1,4-Dioxane

Curve Type: Quadratic
Weighting: None
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	-1.151
Slope:	0.04772
Second Order:	-5.318E-06
Error Coefficients	

Relative Standard Deviation: 13.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	10.0	0.0	50.0	98405.0	0.0	N
2	IC 410-529291/14	25.0	0.290028	50.0	101542.0	0.011601	Y
3	IC 410-529291/15	50.0	1.255851	50.0	102122.0	0.025117	Y
4	IC 410-529291/16	100.0	3.749336	50.0	99711.0	0.037493	Y
5	IC 410-529291/17	250.0	9.454288	50.0	110278.0	0.037817	Y
6	ICIS 410-529291/18	500.0	21.961474	50.0	107980.0	0.043923	Y
7	IC 410-529291/19	1250.0	50.139999	50.0	107501.0	0.040112	Y



Calibration

/ Dibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

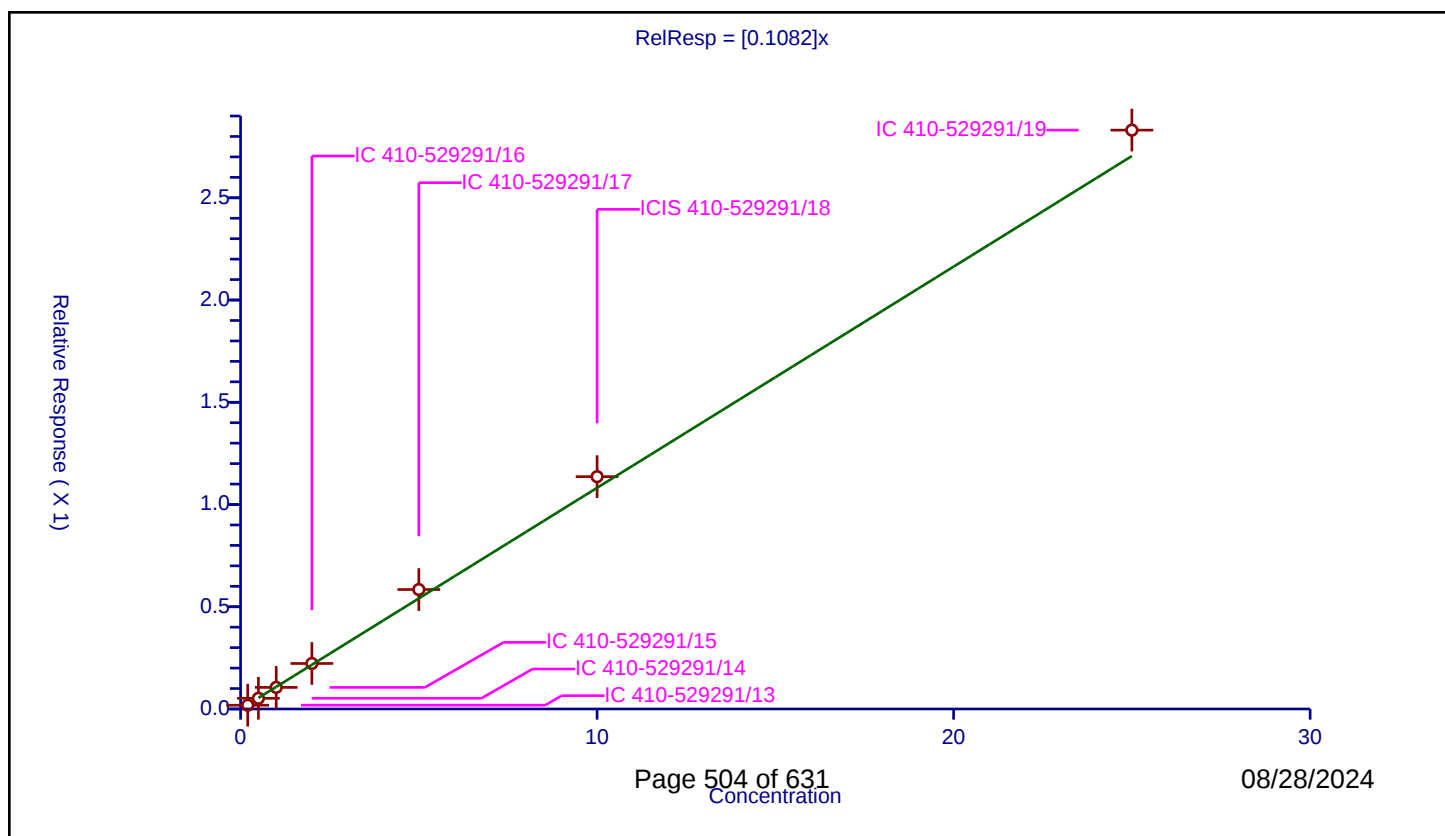
Curve Coefficients

Intercept: 0
Slope: 0.1082

Error Coefficients

Relative Standard Deviation: 7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.018425	10.0	2065681.0	0.092125	Y
2	IC 410-529291/14	0.5	0.052252	10.0	2062328.0	0.104503	Y
3	IC 410-529291/15	1.0	0.105558	10.0	2092414.0	0.105558	Y
4	IC 410-529291/16	2.0	0.222533	10.0	2082929.0	0.111266	Y
5	IC 410-529291/17	5.0	0.584144	10.0	2147537.0	0.116829	Y
6	ICIS 410-529291/18	10.0	1.136239	10.0	2179990.0	0.113624	Y
7	IC 410-529291/19	25.0	2.831047	10.0	2238426.0	0.113242	Y



Calibration

/ Dichlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

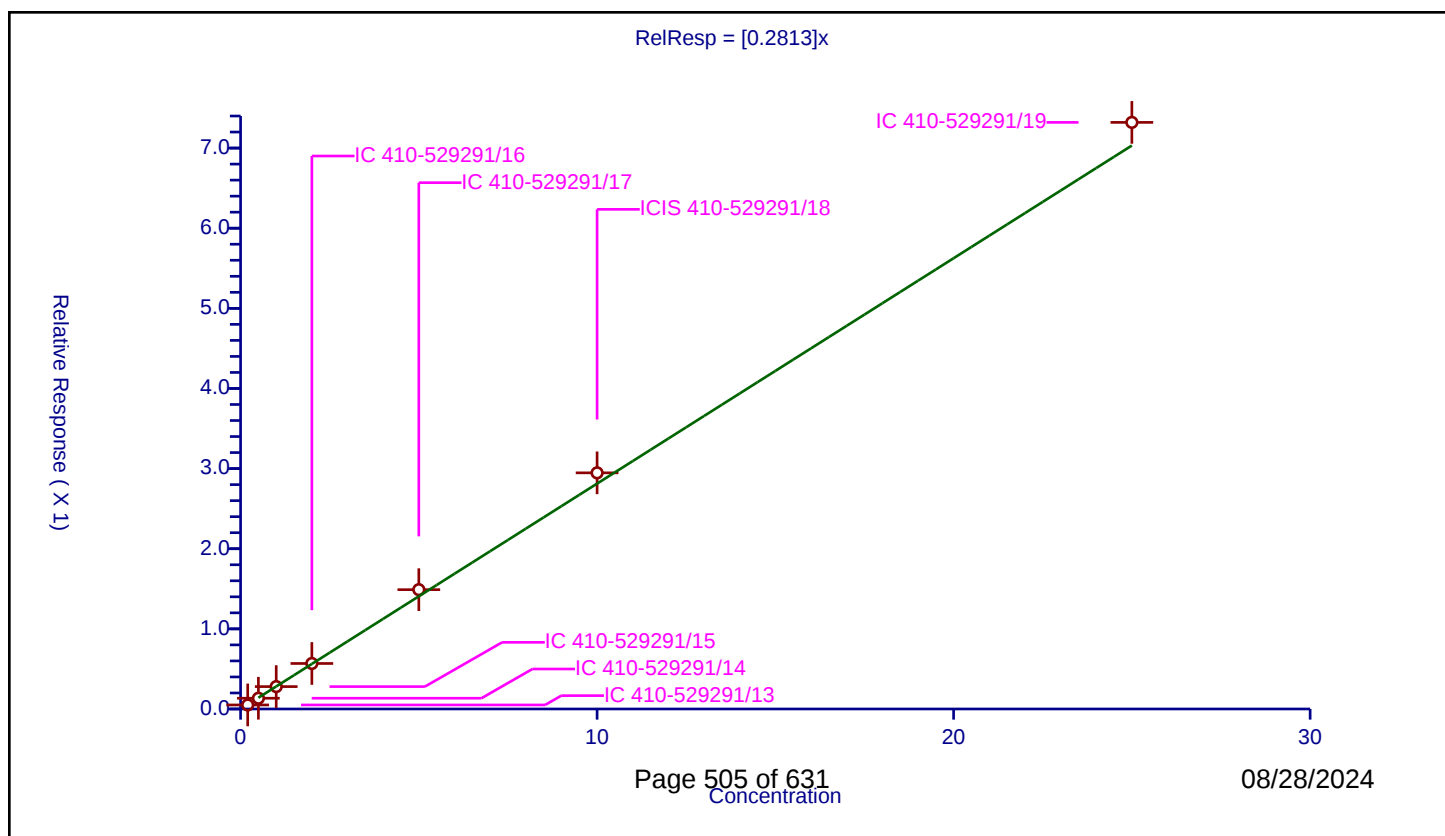
Curve Coefficients

Intercept: 0
Slope: 0.2813

Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.050347	10.0	2065681.0	0.251733	Y
2	IC 410-529291/14	0.5	0.134256	10.0	2062328.0	0.268512	Y
3	IC 410-529291/15	1.0	0.279299	10.0	2092414.0	0.279299	Y
4	IC 410-529291/16	2.0	0.567945	10.0	2082929.0	0.283973	Y
5	IC 410-529291/17	5.0	1.489092	10.0	2147537.0	0.297818	Y
6	ICIS 410-529291/18	10.0	2.946839	10.0	2179990.0	0.294684	Y
7	IC 410-529291/19	25.0	7.320305	10.0	2238426.0	0.292812	Y



Calibration

/ 2-Nitropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

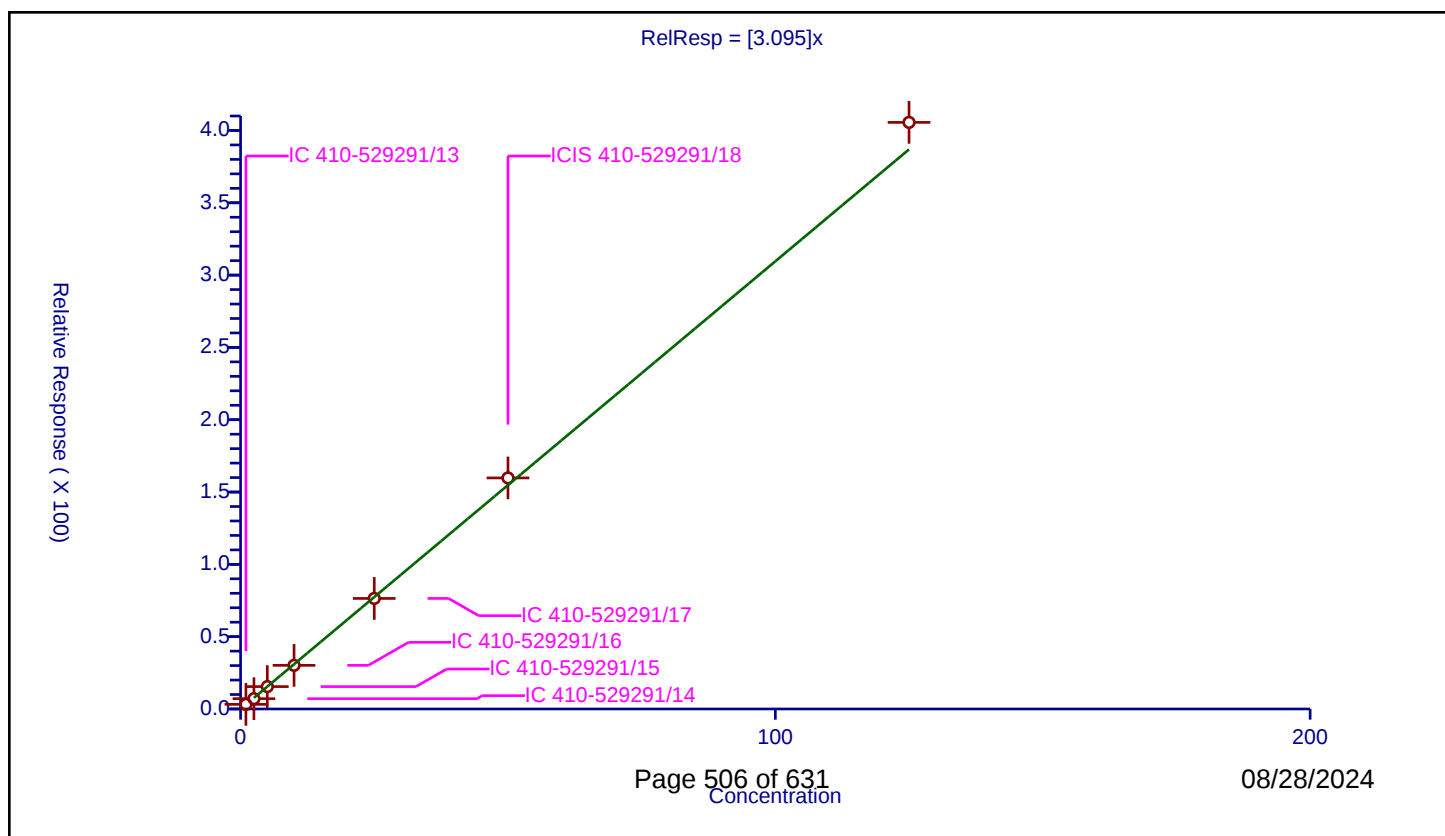
Curve Coefficients

Intercept: 0
Slope: 3.095

Error Coefficients

Relative Standard Deviation: 4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	1.0	3.20563	50.0	98405.0	3.20563	Y
2	IC 410-529291/14	2.5	7.133009	50.0	101542.0	2.853204	Y
3	IC 410-529291/15	5.0	15.475608	50.0	102122.0	3.095122	Y
4	IC 410-529291/16	10.0	30.174203	50.0	99711.0	3.01742	Y
5	IC 410-529291/17	25.0	76.428662	50.0	110278.0	3.057146	Y
6	ICIS 410-529291/18	50.0	159.752732	50.0	107980.0	3.195055	Y
7	IC 410-529291/19	125.0	405.601343	50.0	107501.0	3.244811	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

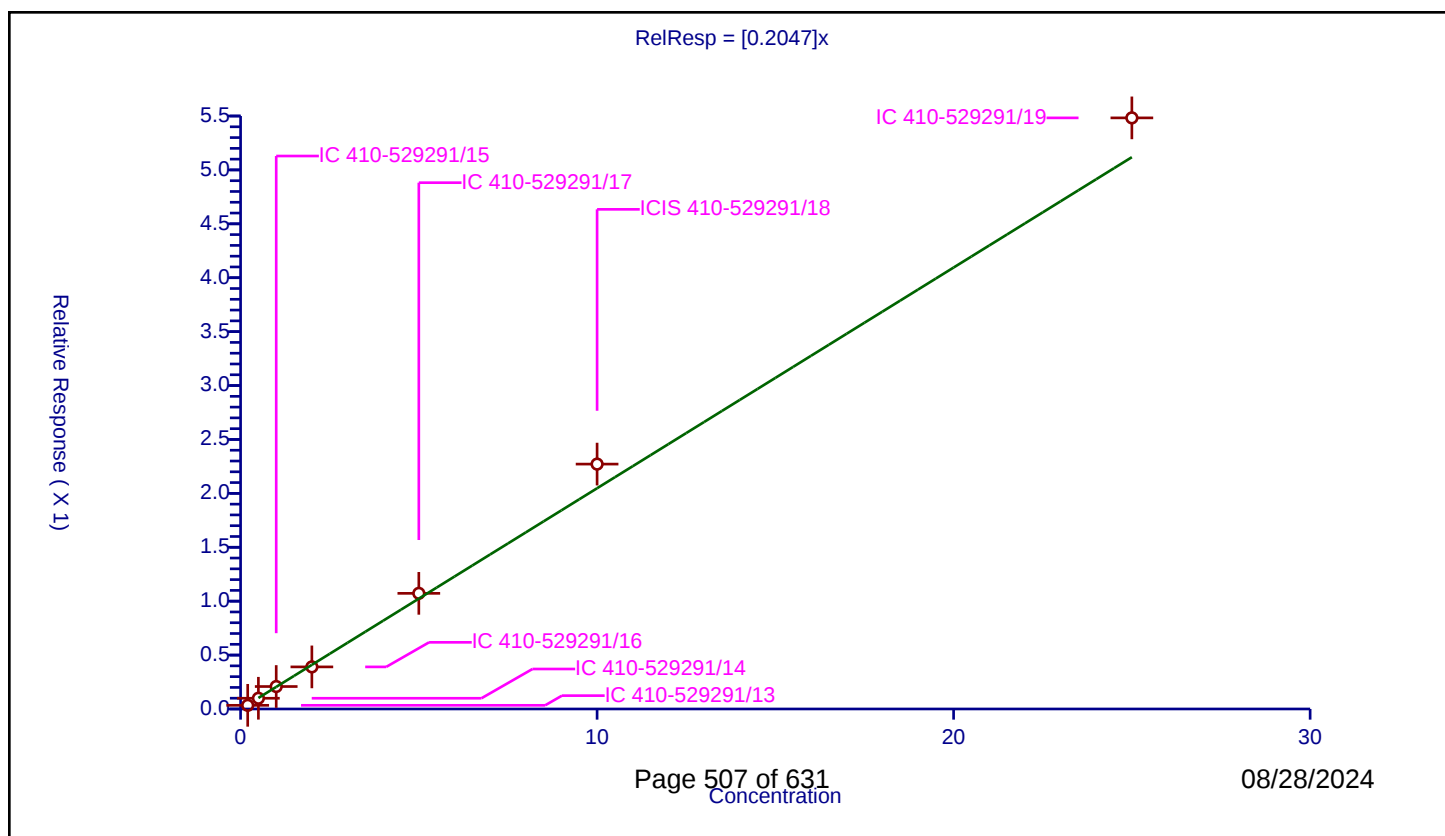
Curve Coefficients

Intercept: 0
Slope: 0.2047

Error Coefficients

Relative Standard Deviation: 9.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.033887	10.0	2065681.0	0.169436	Y
2	IC 410-529291/14	0.5	0.099567	10.0	2062328.0	0.199134	Y
3	IC 410-529291/15	1.0	0.208319	10.0	2092414.0	0.208319	Y
4	IC 410-529291/16	2.0	0.390455	10.0	2082929.0	0.195227	Y
5	IC 410-529291/17	5.0	1.072573	10.0	2147537.0	0.214515	Y
6	ICIS 410-529291/18	10.0	2.271547	10.0	2179990.0	0.227155	Y
7	IC 410-529291/19	25.0	5.482777	10.0	2238426.0	0.219311	Y



Calibration

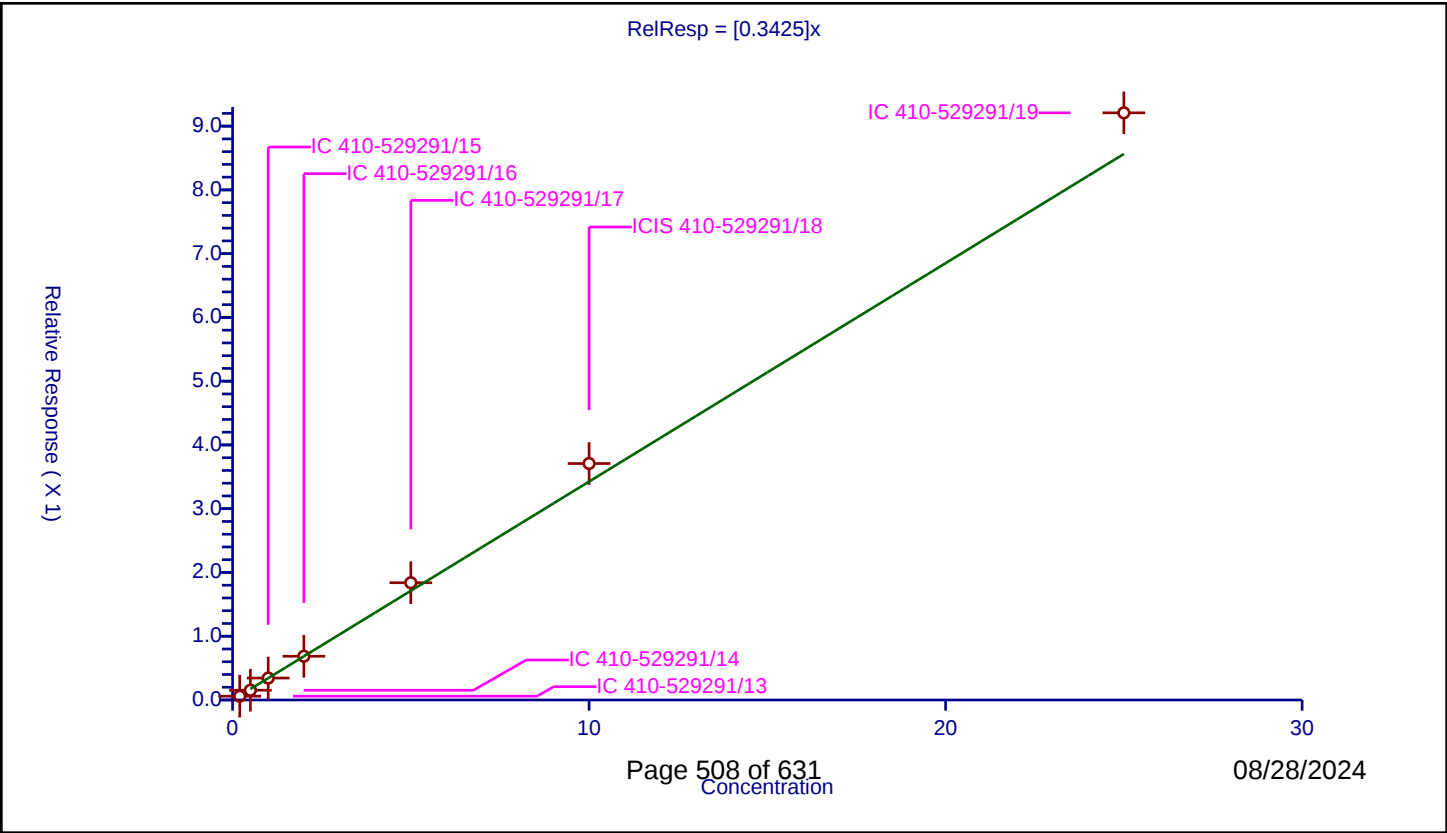
/ cis-1,3-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3425
Error Coefficients	

Relative Standard Deviation: 8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.059554	10.0	2065681.0	0.297771	Y
2	IC 410-529291/14	0.5	0.153036	10.0	2062328.0	0.306072	Y
3	IC 410-529291/15	1.0	0.343804	10.0	2092414.0	0.343804	Y
4	IC 410-529291/16	2.0	0.686024	10.0	2082929.0	0.343012	Y
5	IC 410-529291/17	5.0	1.839377	10.0	2147537.0	0.367875	Y
6	ICIS 410-529291/18	10.0	3.708746	10.0	2179990.0	0.370875	Y
7	IC 410-529291/19	25.0	9.208783	10.0	2238426.0	0.368351	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

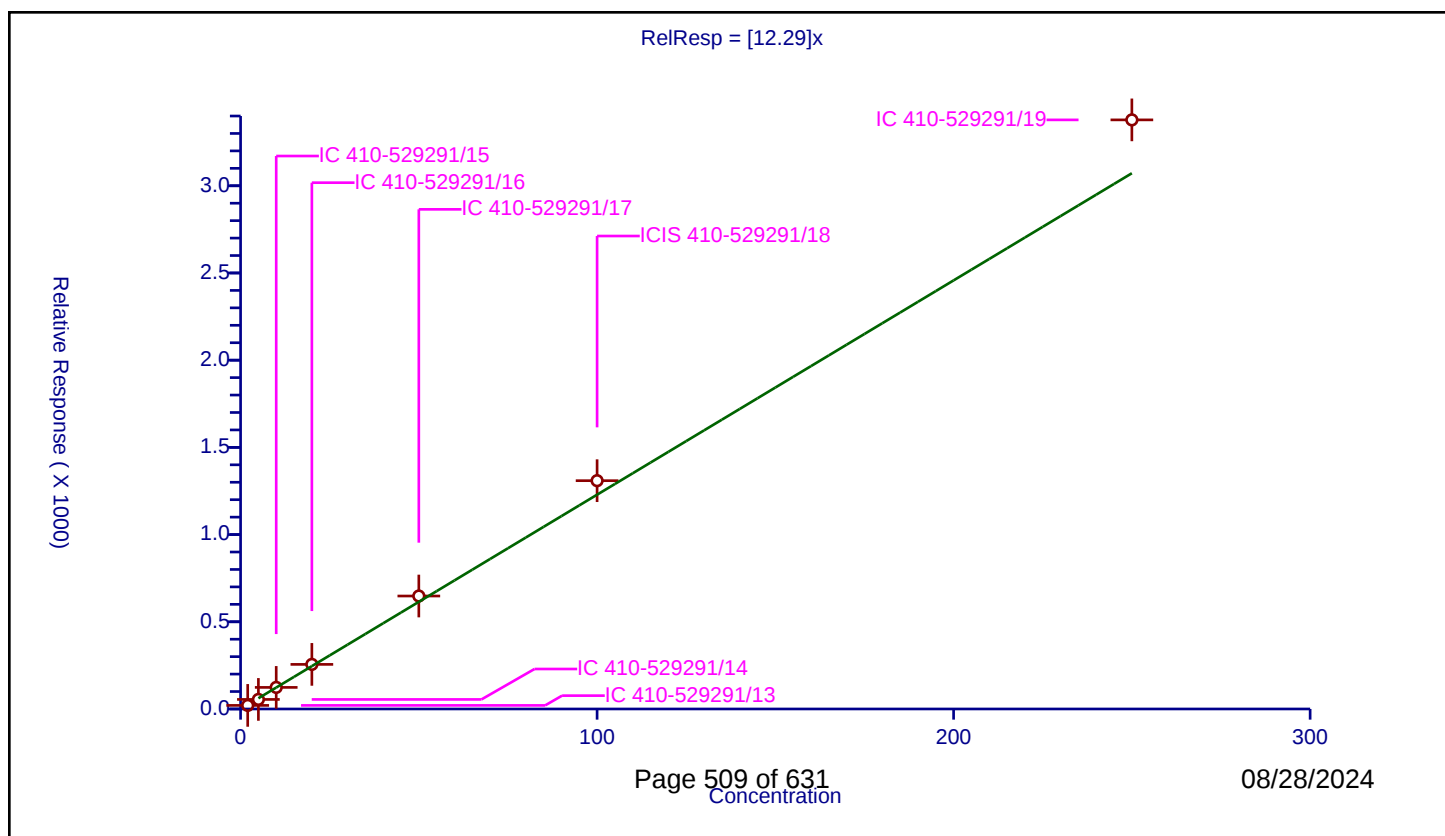
Curve Coefficients

Intercept: 0
 Slope: 12.29

Error Coefficients

Relative Standard Deviation: 9.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	2.0	20.619379	50.0	98405.0	10.30969	Y
2	IC 410-529291/14	5.0	54.873353	50.0	101542.0	10.974671	Y
3	IC 410-529291/15	10.0	123.81857	50.0	102122.0	12.381857	Y
4	IC 410-529291/16	20.0	255.781709	50.0	99711.0	12.789085	Y
5	IC 410-529291/17	50.0	647.742523	50.0	110278.0	12.95485	Y
6	ICIS 410-529291/18	100.0	1309.081774	50.0	107980.0	13.090818	Y
7	IC 410-529291/19	250.0	3377.789509	50.0	107501.0	13.511158	Y



Calibration

/ Toluene-d8 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

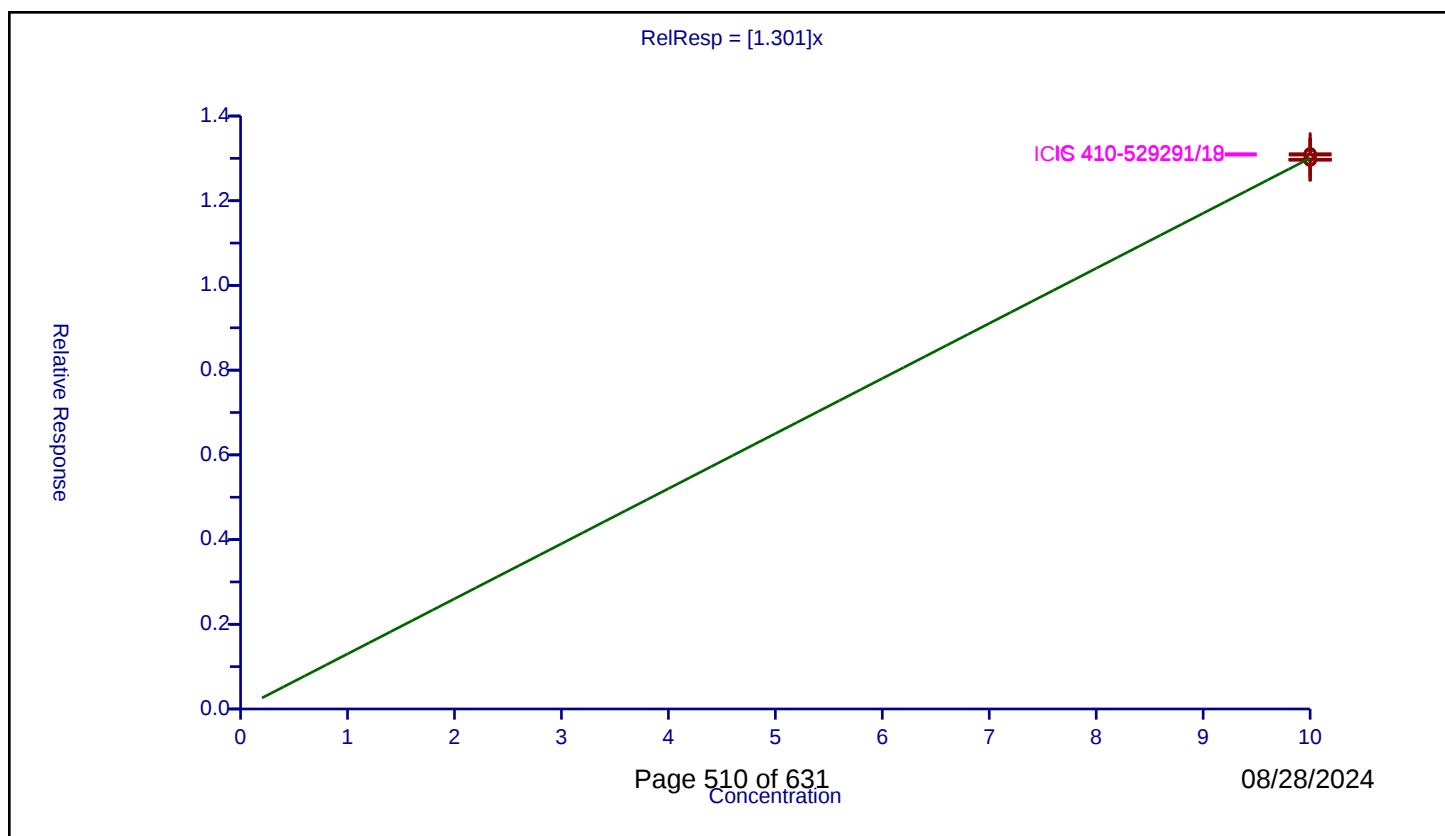
Curve Coefficients

Intercept: 0
 Slope: 1.301

Error Coefficients

Relative Standard Deviation: 0.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	10.0	12.97856	10.0	1550719.0	1.297856	Y
2	IC 410-529291/14	10.0	12.956623	10.0	1551422.0	1.295662	Y
3	IC 410-529291/15	10.0	12.973209	10.0	1571302.0	1.297321	Y
4	IC 410-529291/16	10.0	12.975017	10.0	1575332.0	1.297502	Y
5	IC 410-529291/17	10.0	12.965155	10.0	1621905.0	1.296516	Y
6	ICIS 410-529291/18	10.0	13.076766	10.0	1632214.0	1.307677	Y
7	IC 410-529291/19	10.0	13.11066	10.0	1683257.0	1.311066	Y



Calibration

/ Toluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

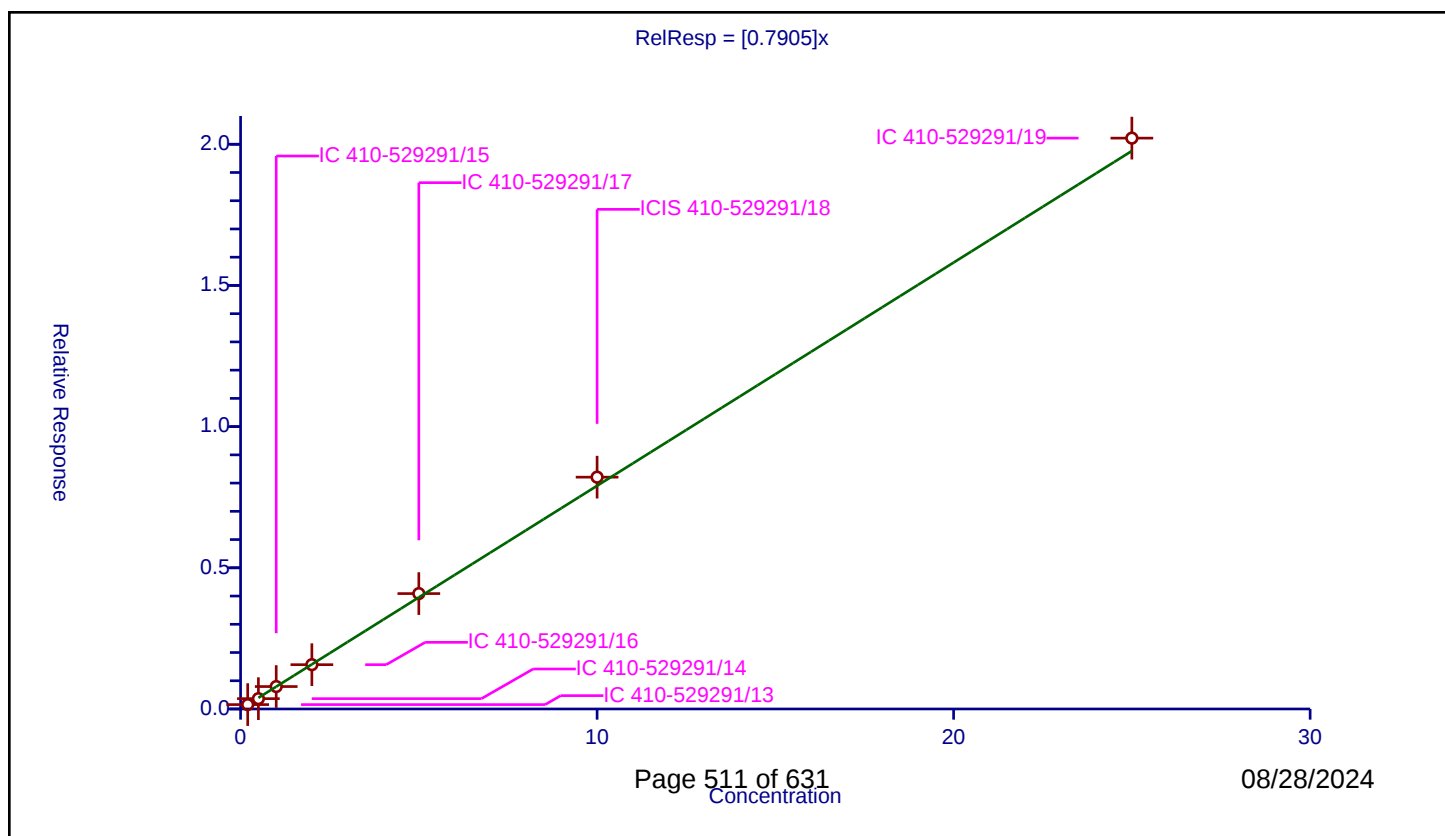
Curve Coefficients

Intercept: 0
Slope: 0.7905

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.155038	10.0	1550719.0	0.775189	Y
2	IC 410-529291/14	0.5	0.365916	10.0	1551422.0	0.731832	Y
3	IC 410-529291/15	1.0	0.794729	10.0	1571302.0	0.794729	Y
4	IC 410-529291/16	2.0	1.569555	10.0	1575332.0	0.784777	Y
5	IC 410-529291/17	5.0	4.086485	10.0	1621905.0	0.817297	Y
6	ICIS 410-529291/18	10.0	8.210406	10.0	1632214.0	0.821041	Y
7	IC 410-529291/19	25.0	20.216675	10.0	1683257.0	0.808667	Y



Calibration

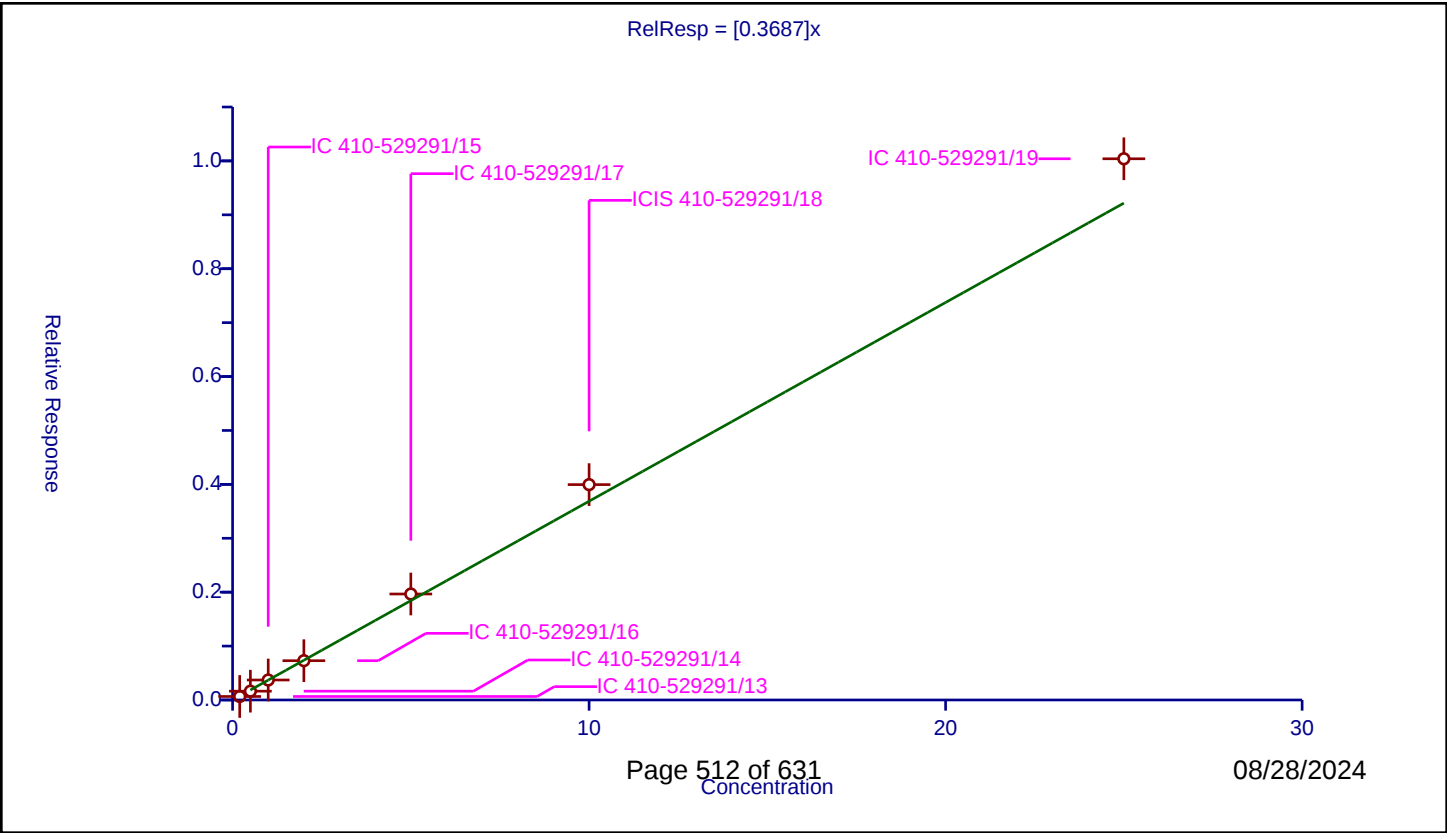
/ trans-1,3-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3687
Error Coefficients	

Relative Standard Deviation: 8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.064918	10.0	1550719.0	0.324591	Y
2	IC 410-529291/14	0.5	0.163353	10.0	1551422.0	0.326707	Y
3	IC 410-529291/15	1.0	0.370858	10.0	1571302.0	0.370858	Y
4	IC 410-529291/16	2.0	0.728792	10.0	1575332.0	0.364396	Y
5	IC 410-529291/17	5.0	1.96588	10.0	1621905.0	0.393176	Y
6	ICIS 410-529291/18	10.0	3.995156	10.0	1632214.0	0.399516	Y
7	IC 410-529291/19	25.0	10.039958	10.0	1683257.0	0.401598	Y



Calibration

/ Ethyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

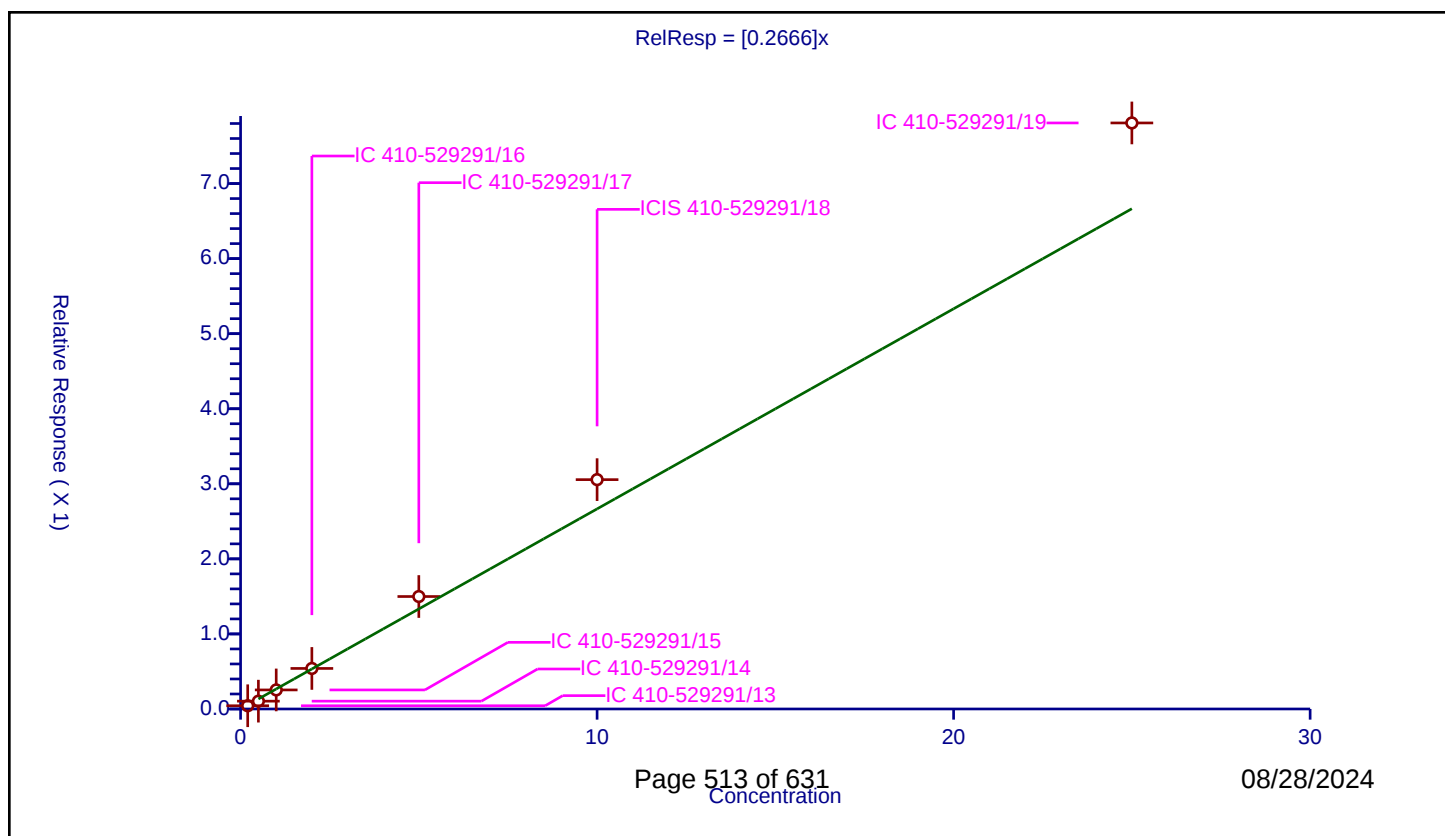
Curve Coefficients

Intercept: 0
Slope: 0.2666

Error Coefficients

Relative Standard Deviation: 15.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.043264	10.0	1550719.0	0.216319	Y
2	IC 410-529291/14	0.5	0.104143	10.0	1551422.0	0.208286	Y
3	IC 410-529291/15	1.0	0.253879	10.0	1571302.0	0.253879	Y
4	IC 410-529291/16	2.0	0.54014	10.0	1575332.0	0.27007	Y
5	IC 410-529291/17	5.0	1.498386	10.0	1621905.0	0.299677	Y
6	ICIS 410-529291/18	10.0	3.055567	10.0	1632214.0	0.305557	Y
7	IC 410-529291/19	25.0	7.807489	10.0	1683257.0	0.3123	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

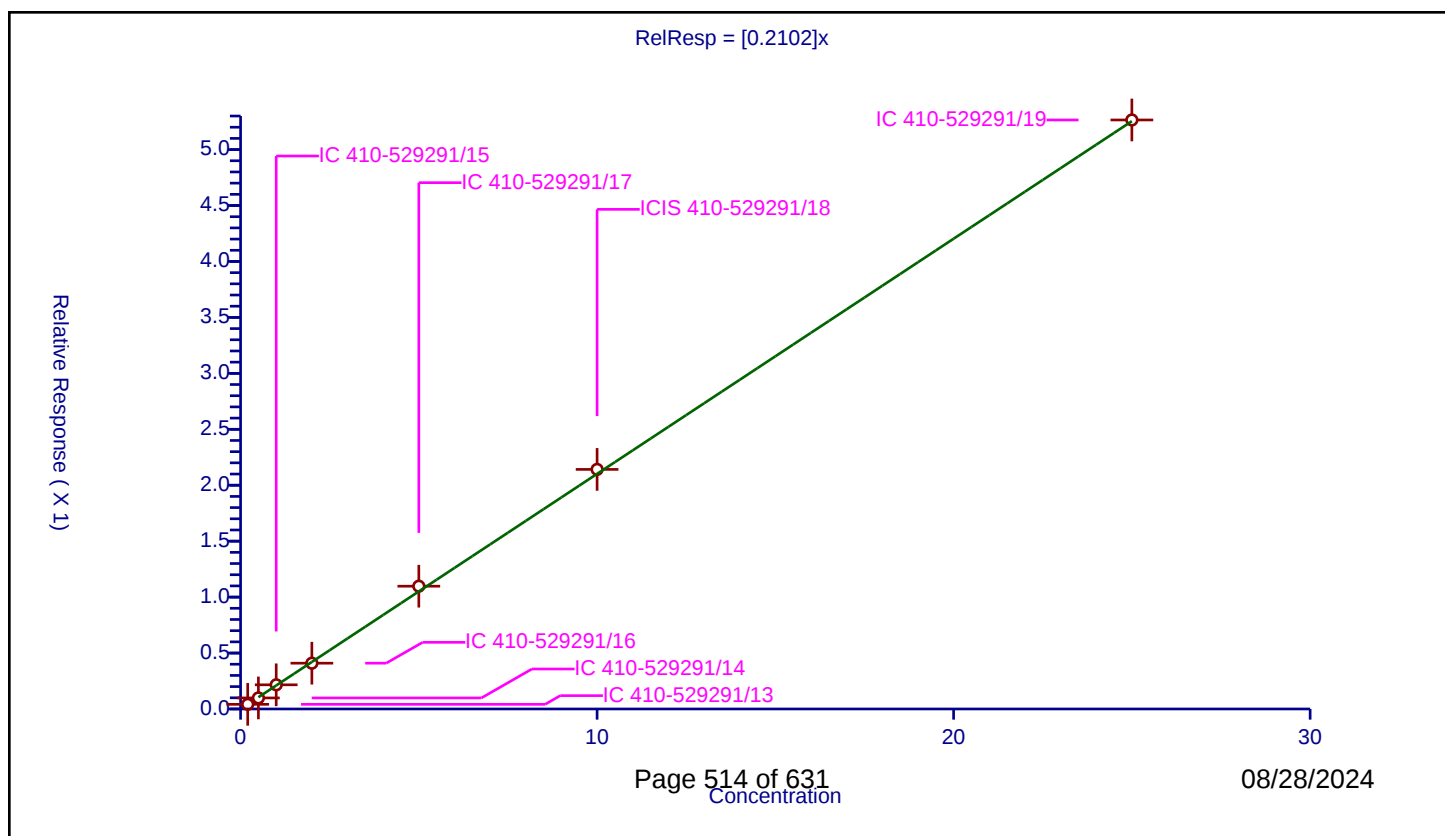
Curve Coefficients

Intercept: 0
 Slope: 0.2102

Error Coefficients

Relative Standard Deviation: 3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.041697	10.0	1550719.0	0.208484	Y
2	IC 410-529291/14	0.5	0.098825	10.0	1551422.0	0.197651	Y
3	IC 410-529291/15	1.0	0.216076	10.0	1571302.0	0.216076	Y
4	IC 410-529291/16	2.0	0.409323	10.0	1575332.0	0.204662	Y
5	IC 410-529291/17	5.0	1.097376	10.0	1621905.0	0.219475	Y
6	ICIS 410-529291/18	10.0	2.141337	10.0	1632214.0	0.214134	Y
7	IC 410-529291/19	25.0	5.264722	10.0	1683257.0	0.210589	Y



Calibration

/ Tetrachloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

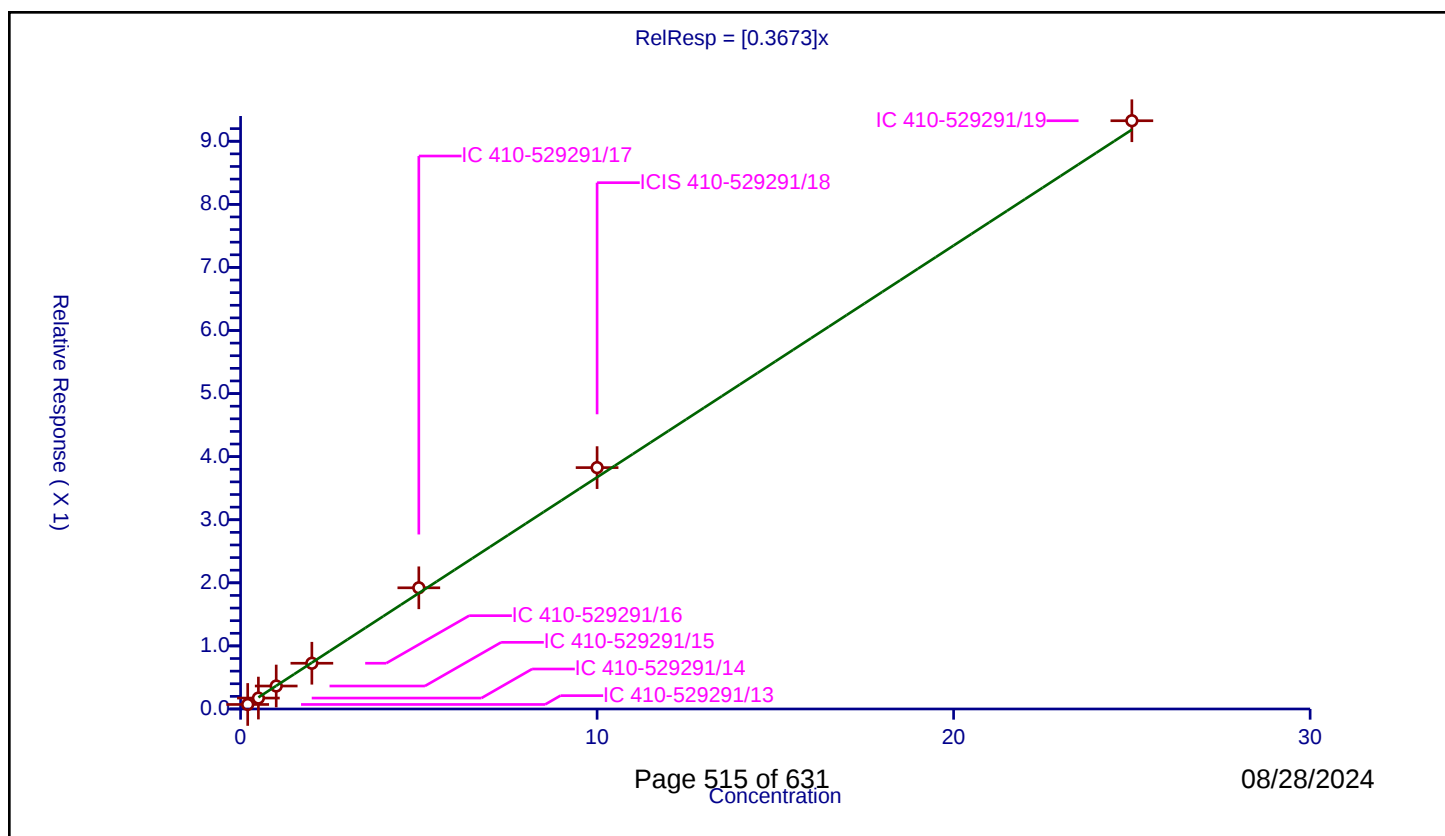
Curve Coefficients

Intercept: 0
Slope: 0.3673

Error Coefficients

Relative Standard Deviation: 3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.071676	10.0	1550719.0	0.358382	Y
2	IC 410-529291/14	0.5	0.173273	10.0	1551422.0	0.346547	Y
3	IC 410-529291/15	1.0	0.363991	10.0	1571302.0	0.363991	Y
4	IC 410-529291/16	2.0	0.725111	10.0	1575332.0	0.362555	Y
5	IC 410-529291/17	5.0	1.921099	10.0	1621905.0	0.38422	Y
6	ICIS 410-529291/18	10.0	3.826269	10.0	1632214.0	0.382627	Y
7	IC 410-529291/19	25.0	9.325302	10.0	1683257.0	0.373012	Y



Calibration

/ 1,3-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

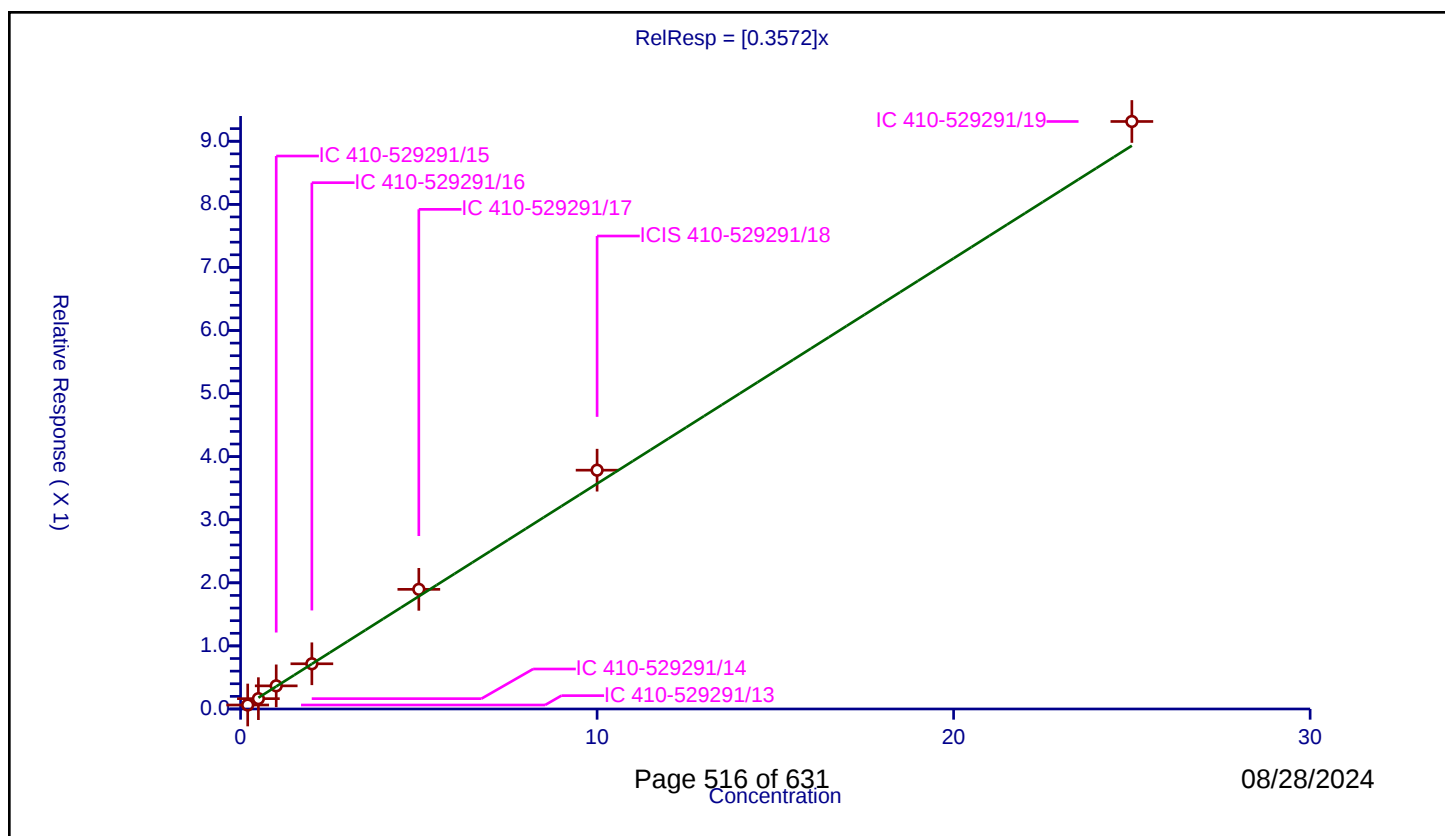
Curve Coefficients

Intercept: 0
Slope: 0.3572

Error Coefficients

Relative Standard Deviation: 7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.063384	10.0	1550719.0	0.316918	Y
2	IC 410-529291/14	0.5	0.163959	10.0	1551422.0	0.327919	Y
3	IC 410-529291/15	1.0	0.366721	10.0	1571302.0	0.366721	Y
4	IC 410-529291/16	2.0	0.716547	10.0	1575332.0	0.358274	Y
5	IC 410-529291/17	5.0	1.896696	10.0	1621905.0	0.379339	Y
6	ICIS 410-529291/18	10.0	3.785558	10.0	1632214.0	0.378556	Y
7	IC 410-529291/19	25.0	9.313539	10.0	1683257.0	0.372542	Y

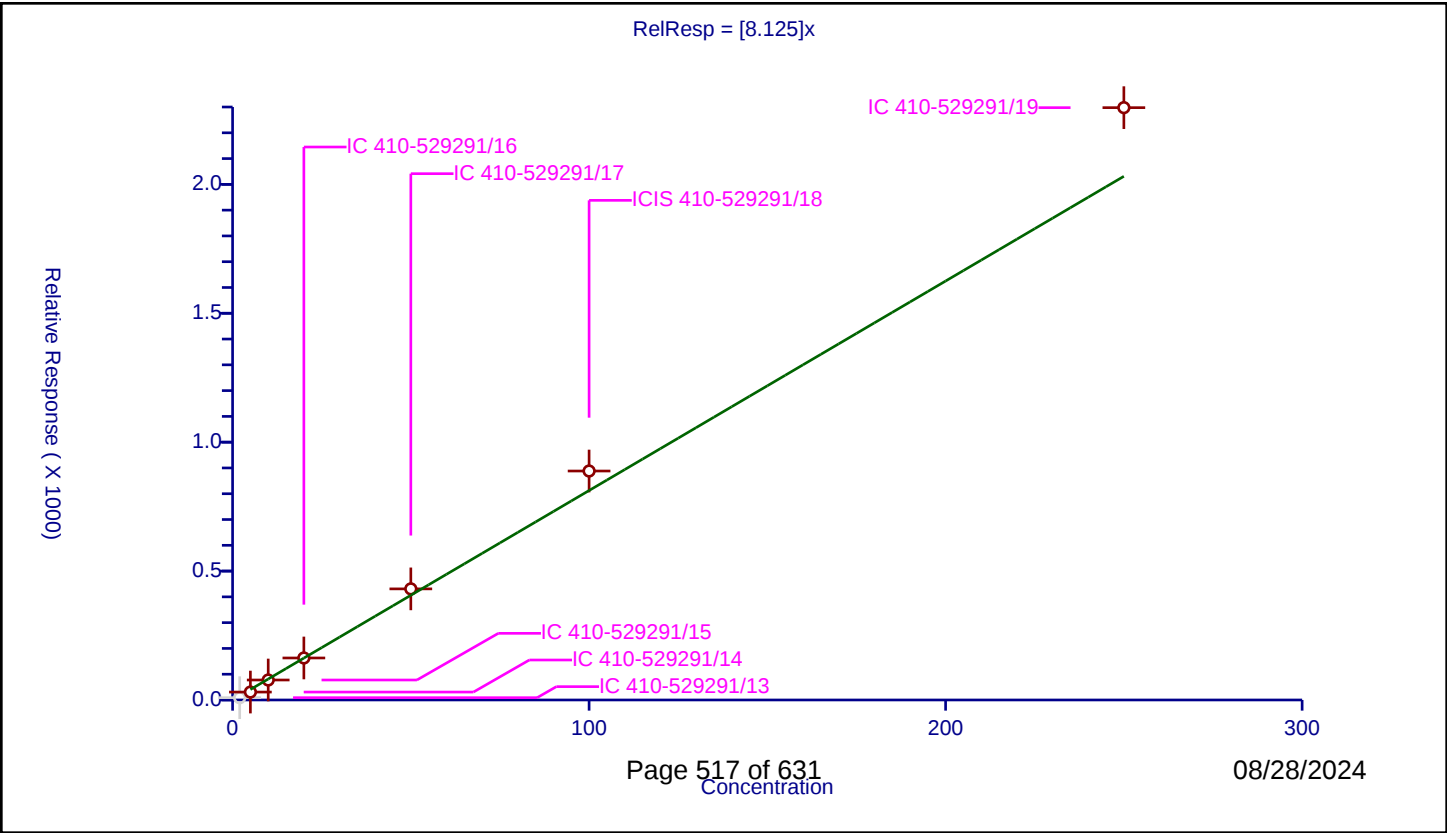


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	8.125
Error Coefficients	

Relative Standard Deviation: 13.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	2.0	8.919262	50.0	98405.0	4.459631	N
2	IC 410-529291/14	5.0	30.797601	50.0	101542.0	6.15952	Y
3	IC 410-529291/15	10.0	77.503868	50.0	102122.0	7.750387	Y
4	IC 410-529291/16	20.0	162.966473	50.0	99711.0	8.148324	Y
5	IC 410-529291/17	50.0	430.963111	50.0	110278.0	8.619262	Y
6	ICIS 410-529291/18	100.0	888.175125	50.0	107980.0	8.881751	Y
7	IC 410-529291/19	250.0	2297.534907	50.0	107501.0	9.19014	Y



Calibration

/ Chlorodibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

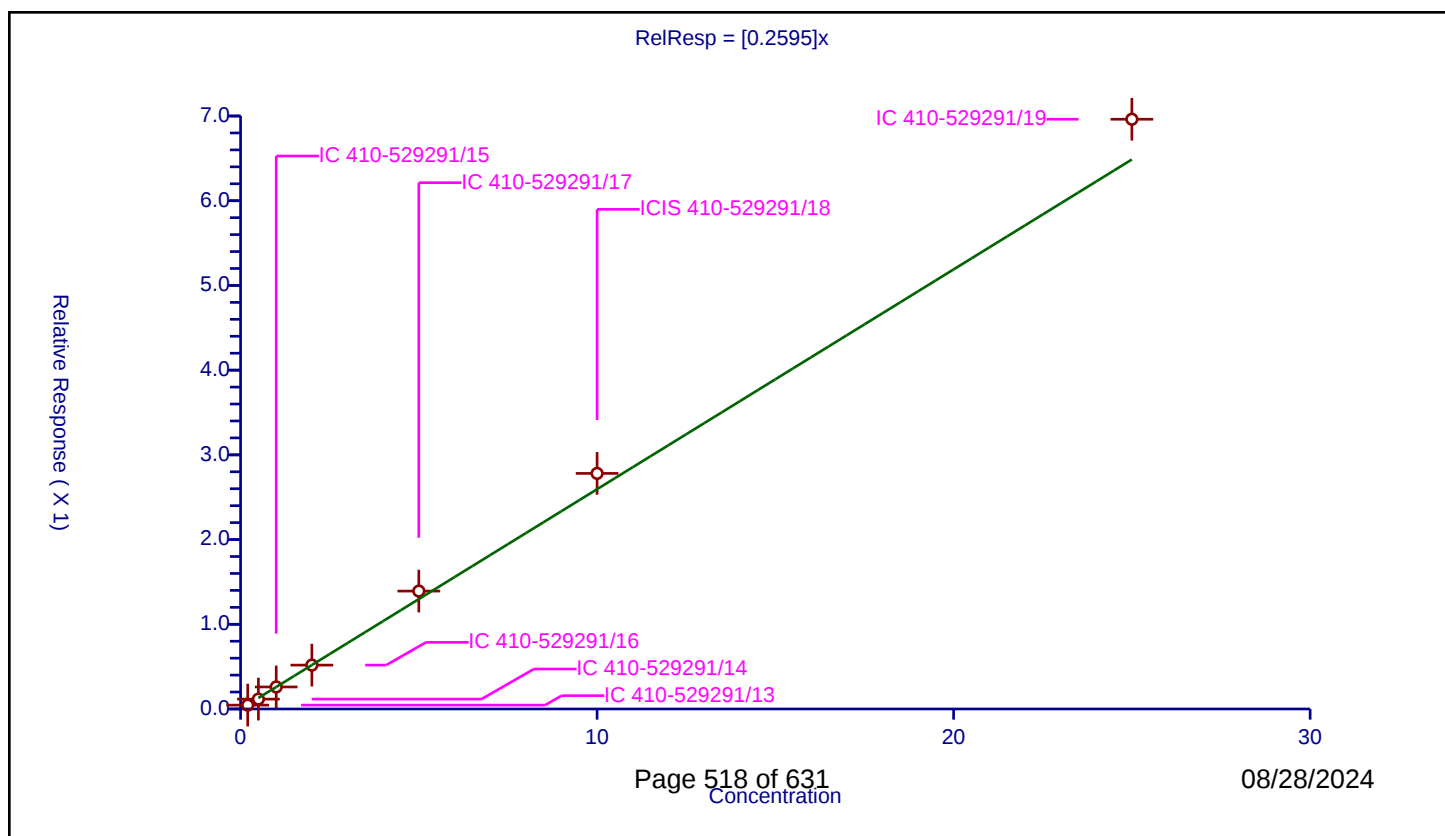
Curve Coefficients

Intercept: 0
Slope: 0.2595

Error Coefficients

Relative Standard Deviation: 8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.045701	10.0	1550719.0	0.228507	Y
2	IC 410-529291/14	0.5	0.116783	10.0	1551422.0	0.233566	Y
3	IC 410-529291/15	1.0	0.260071	10.0	1571302.0	0.260071	Y
4	IC 410-529291/16	2.0	0.518145	10.0	1575332.0	0.259072	Y
5	IC 410-529291/17	5.0	1.392011	10.0	1621905.0	0.278402	Y
6	ICIS 410-529291/18	10.0	2.781124	10.0	1632214.0	0.278112	Y
7	IC 410-529291/19	25.0	6.962056	10.0	1683257.0	0.278482	Y



Calibration

/ Ethylene Dibromide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

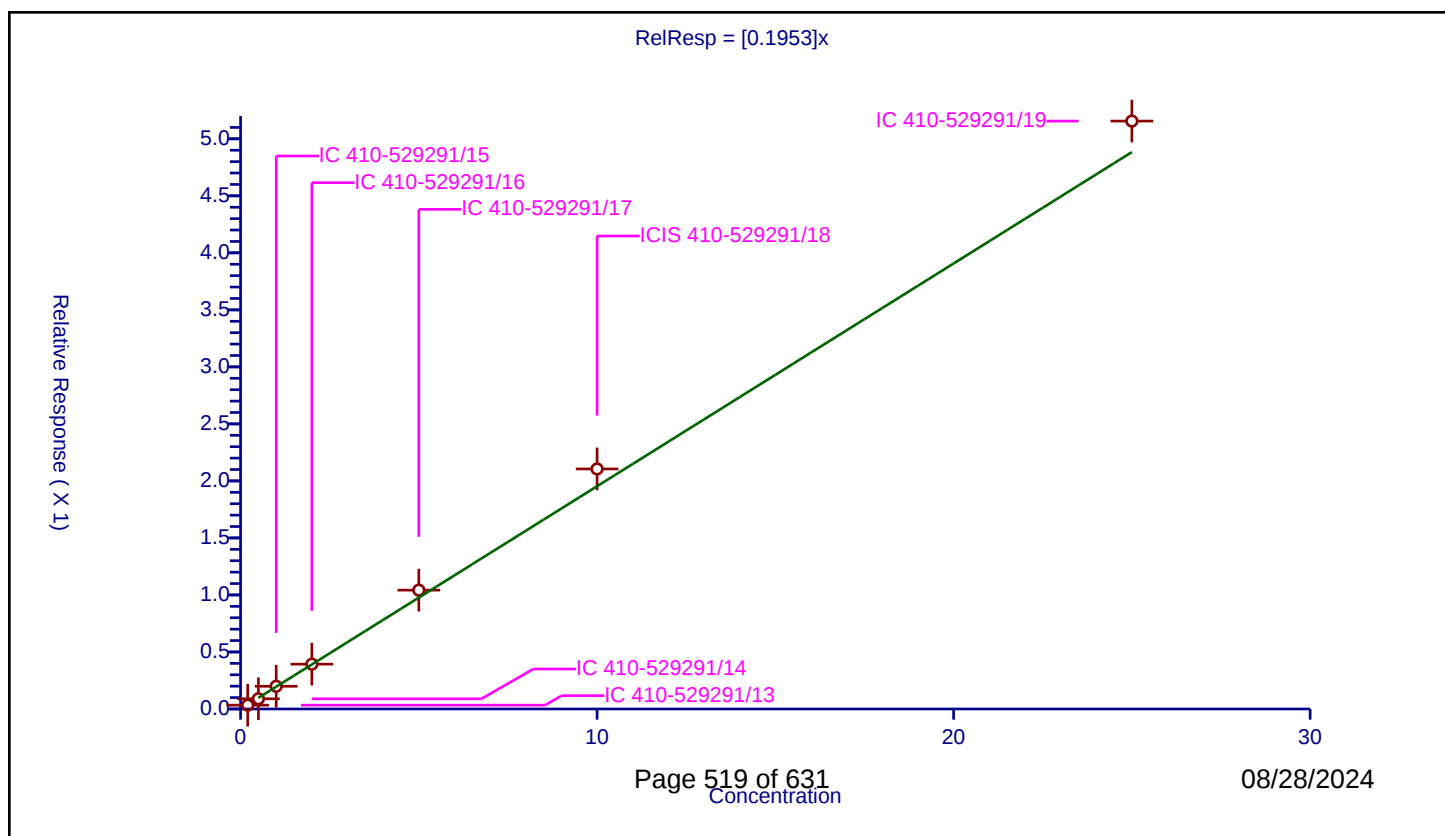
Curve Coefficients

Intercept: 0
Slope: 0.1953

Error Coefficients

Relative Standard Deviation: 8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.033507	10.0	1550719.0	0.167535	Y
2	IC 410-529291/14	0.5	0.089473	10.0	1551422.0	0.178946	Y
3	IC 410-529291/15	1.0	0.199179	10.0	1571302.0	0.199179	Y
4	IC 410-529291/16	2.0	0.393193	10.0	1575332.0	0.196597	Y
5	IC 410-529291/17	5.0	1.042114	10.0	1621905.0	0.208423	Y
6	ICIS 410-529291/18	10.0	2.104902	10.0	1632214.0	0.21049	Y
7	IC 410-529291/19	25.0	5.155612	10.0	1683257.0	0.206224	Y



Calibration

/ 1-Chlorohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

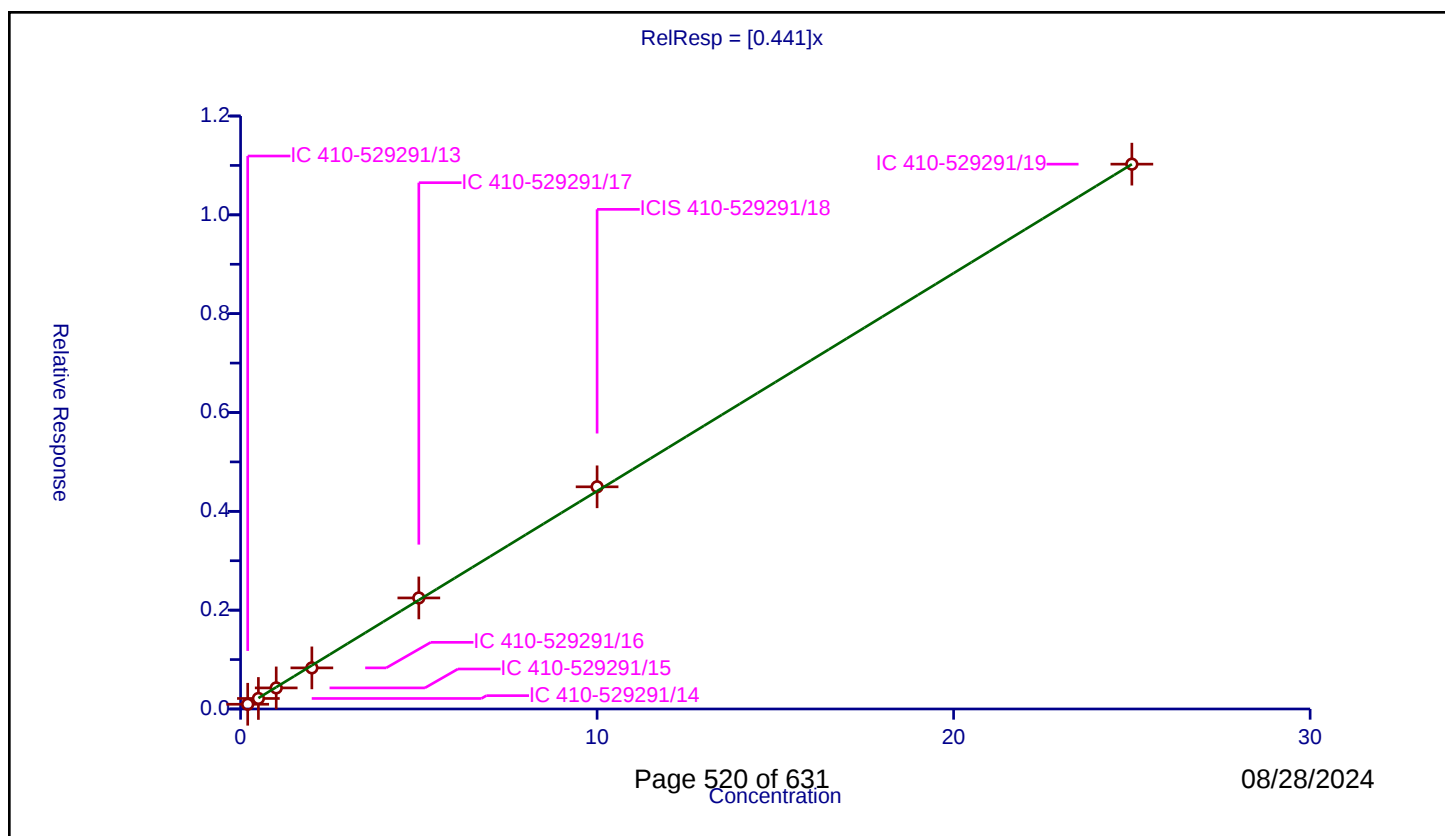
Curve Coefficients

Intercept: 0
Slope: 0.441

Error Coefficients

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.095672	10.0	1550719.0	0.478359	Y
2	IC 410-529291/14	0.5	0.212889	10.0	1551422.0	0.425777	Y
3	IC 410-529291/15	1.0	0.426449	10.0	1571302.0	0.426449	Y
4	IC 410-529291/16	2.0	0.832028	10.0	1575332.0	0.416014	Y
5	IC 410-529291/17	5.0	2.247493	10.0	1621905.0	0.449499	Y
6	ICIS 410-529291/18	10.0	4.49623	10.0	1632214.0	0.449623	Y
7	IC 410-529291/19	25.0	11.025821	10.0	1683257.0	0.441033	Y



Calibration

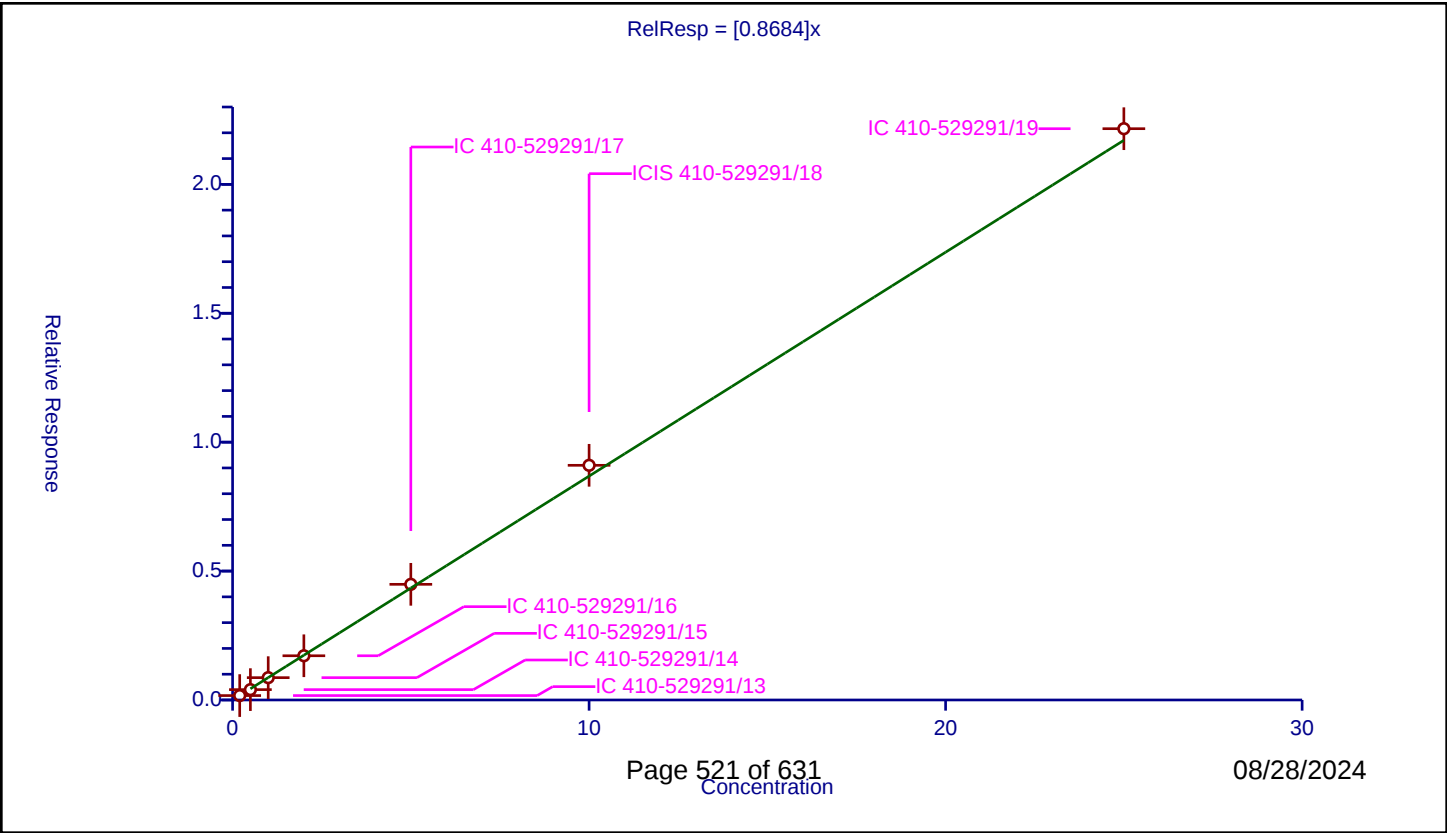
/ Chlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8684
Error Coefficients	

Relative Standard Deviation: 4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.171495	10.0	1550719.0	0.857473	Y
2	IC 410-529291/14	0.5	0.401516	10.0	1551422.0	0.803031	Y
3	IC 410-529291/15	1.0	0.866746	10.0	1571302.0	0.866746	Y
4	IC 410-529291/16	2.0	1.715067	10.0	1575332.0	0.857534	Y
5	IC 410-529291/17	5.0	4.486336	10.0	1621905.0	0.897267	Y
6	ICIS 410-529291/18	10.0	9.102403	10.0	1632214.0	0.91024	Y
7	IC 410-529291/19	25.0	22.159444	10.0	1683257.0	0.886378	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

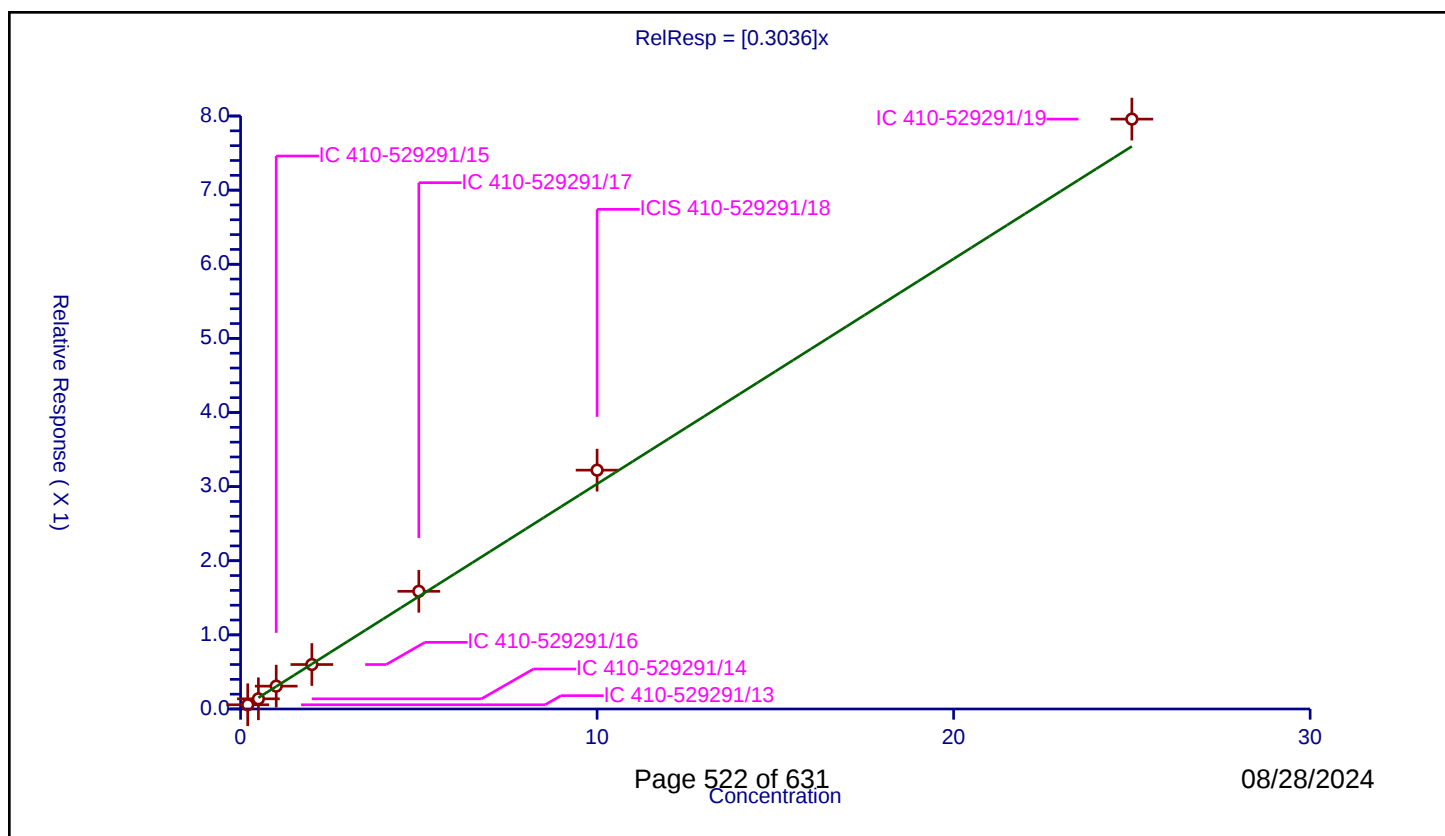
Curve Coefficients

Intercept: 0
 Slope: 0.3036

Error Coefficients

Relative Standard Deviation: 6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.056986	10.0	1550719.0	0.284932	Y
2	IC 410-529291/14	0.5	0.137113	10.0	1551422.0	0.274226	Y
3	IC 410-529291/15	1.0	0.308254	10.0	1571302.0	0.308254	Y
4	IC 410-529291/16	2.0	0.59981	10.0	1575332.0	0.299905	Y
5	IC 410-529291/17	5.0	1.58767	10.0	1621905.0	0.317534	Y
6	ICIS 410-529291/18	10.0	3.222323	10.0	1632214.0	0.322232	Y
7	IC 410-529291/19	25.0	7.958167	10.0	1683257.0	0.318327	Y



Calibration

/ Ethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

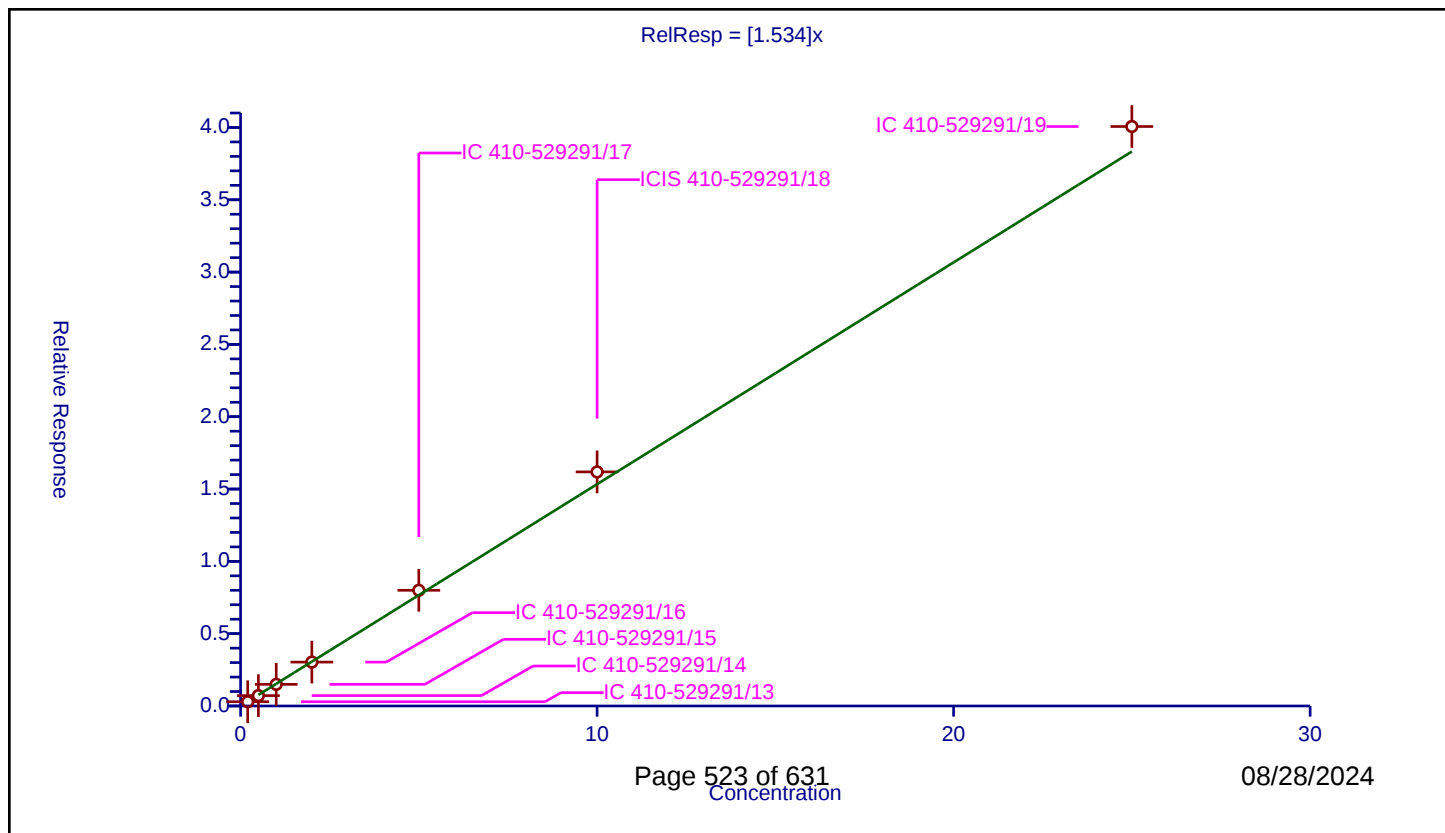
Curve Coefficients

Intercept: 0
Slope: 1.534

Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.293199	10.0	1550719.0	1.465997	Y
2	IC 410-529291/14	0.5	0.716794	10.0	1551422.0	1.433588	Y
3	IC 410-529291/15	1.0	1.496886	10.0	1571302.0	1.496886	Y
4	IC 410-529291/16	2.0	3.033964	10.0	1575332.0	1.516982	Y
5	IC 410-529291/17	5.0	7.999587	10.0	1621905.0	1.599917	Y
6	ICIS 410-529291/18	10.0	16.185764	10.0	1632214.0	1.618576	Y
7	IC 410-529291/19	25.0	40.06627	10.0	1683257.0	1.602651	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

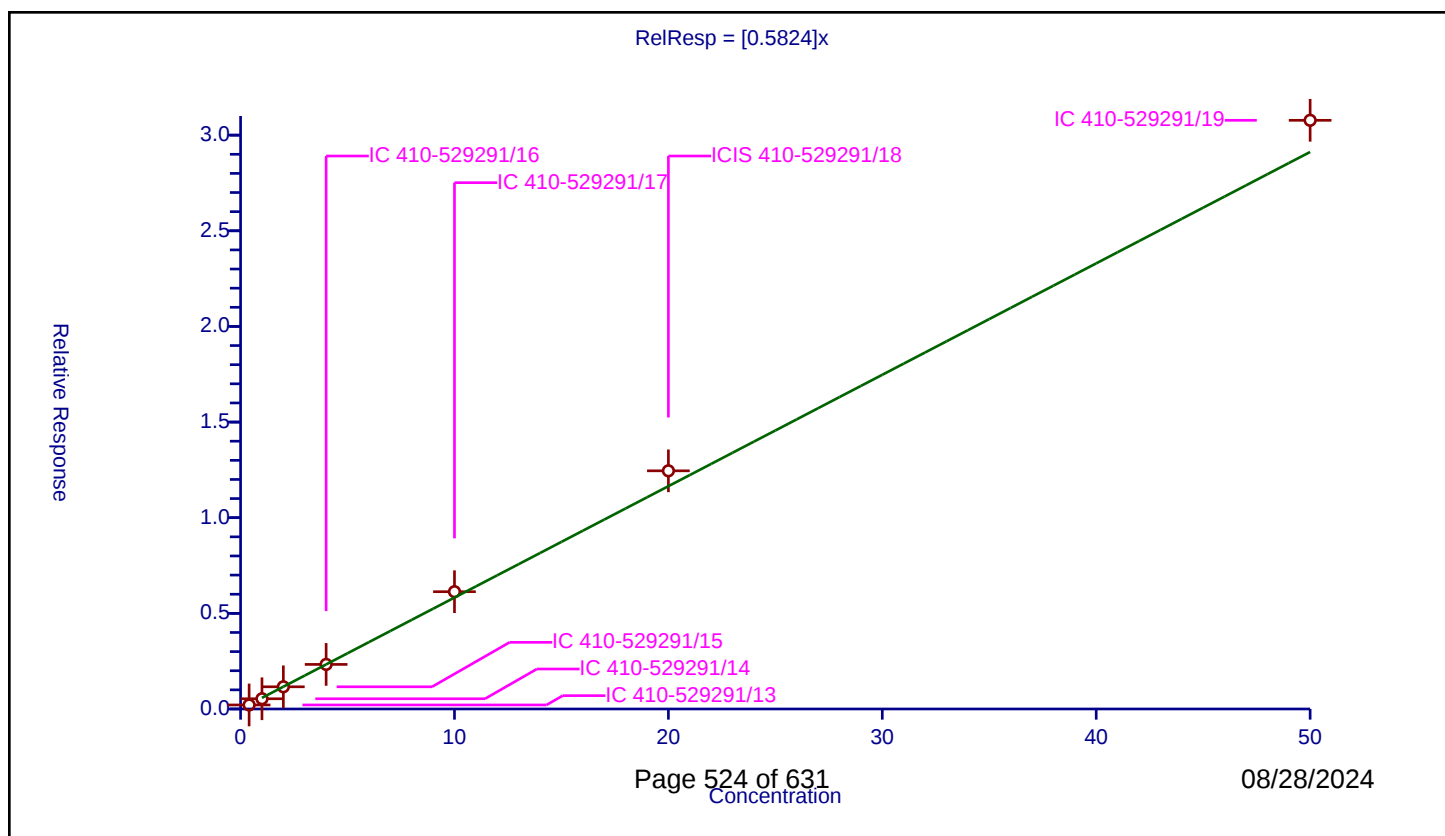
Curve Coefficients

Intercept: 0
 Slope: 0.5824

Error Coefficients

Relative Standard Deviation: 6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.4	0.210947	10.0	1550719.0	0.527368	Y
2	IC 410-529291/14	1.0	0.535135	10.0	1551422.0	0.535135	Y
3	IC 410-529291/15	2.0	1.160611	10.0	1571302.0	0.580305	Y
4	IC 410-529291/16	4.0	2.330709	10.0	1575332.0	0.582677	Y
5	IC 410-529291/17	10.0	6.132184	10.0	1621905.0	0.613218	Y
6	ICIS 410-529291/18	20.0	12.451278	10.0	1632214.0	0.622564	Y
7	IC 410-529291/19	50.0	30.775681	10.0	1683257.0	0.615514	Y



Calibration

/ o-Xylene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

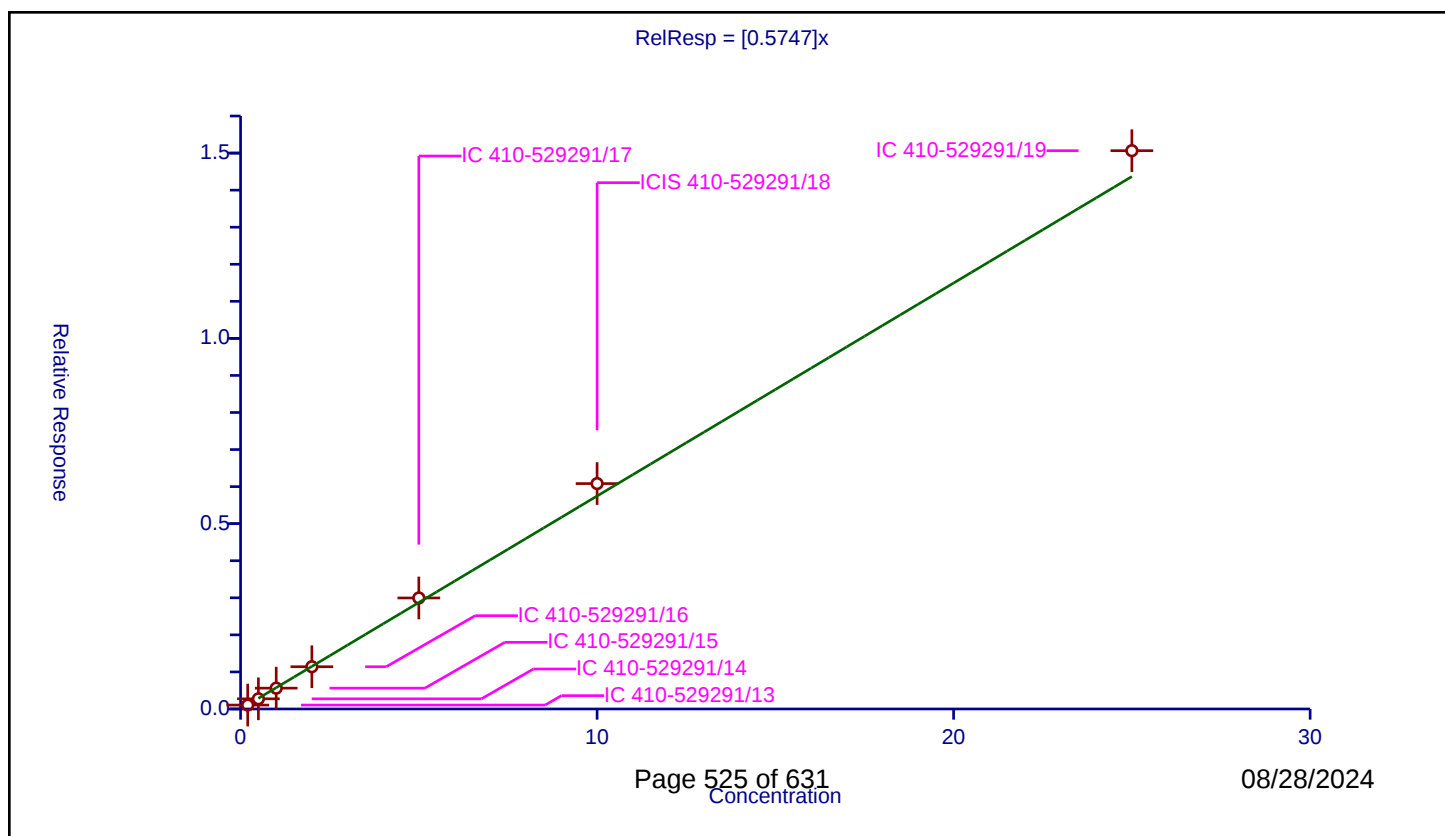
Curve Coefficients

Intercept: 0
Slope: 0.5747

Error Coefficients

Relative Standard Deviation: 5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.106376	10.0	1550719.0	0.531882	Y
2	IC 410-529291/14	0.5	0.2744	10.0	1551422.0	0.5488	Y
3	IC 410-529291/15	1.0	0.562075	10.0	1571302.0	0.562075	Y
4	IC 410-529291/16	2.0	1.139995	10.0	1575332.0	0.569997	Y
5	IC 410-529291/17	5.0	2.995804	10.0	1621905.0	0.599161	Y
6	ICIS 410-529291/18	10.0	6.081666	10.0	1632214.0	0.608167	Y
7	IC 410-529291/19	25.0	15.064943	10.0	1683257.0	0.602598	Y



Calibration

/ Styrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

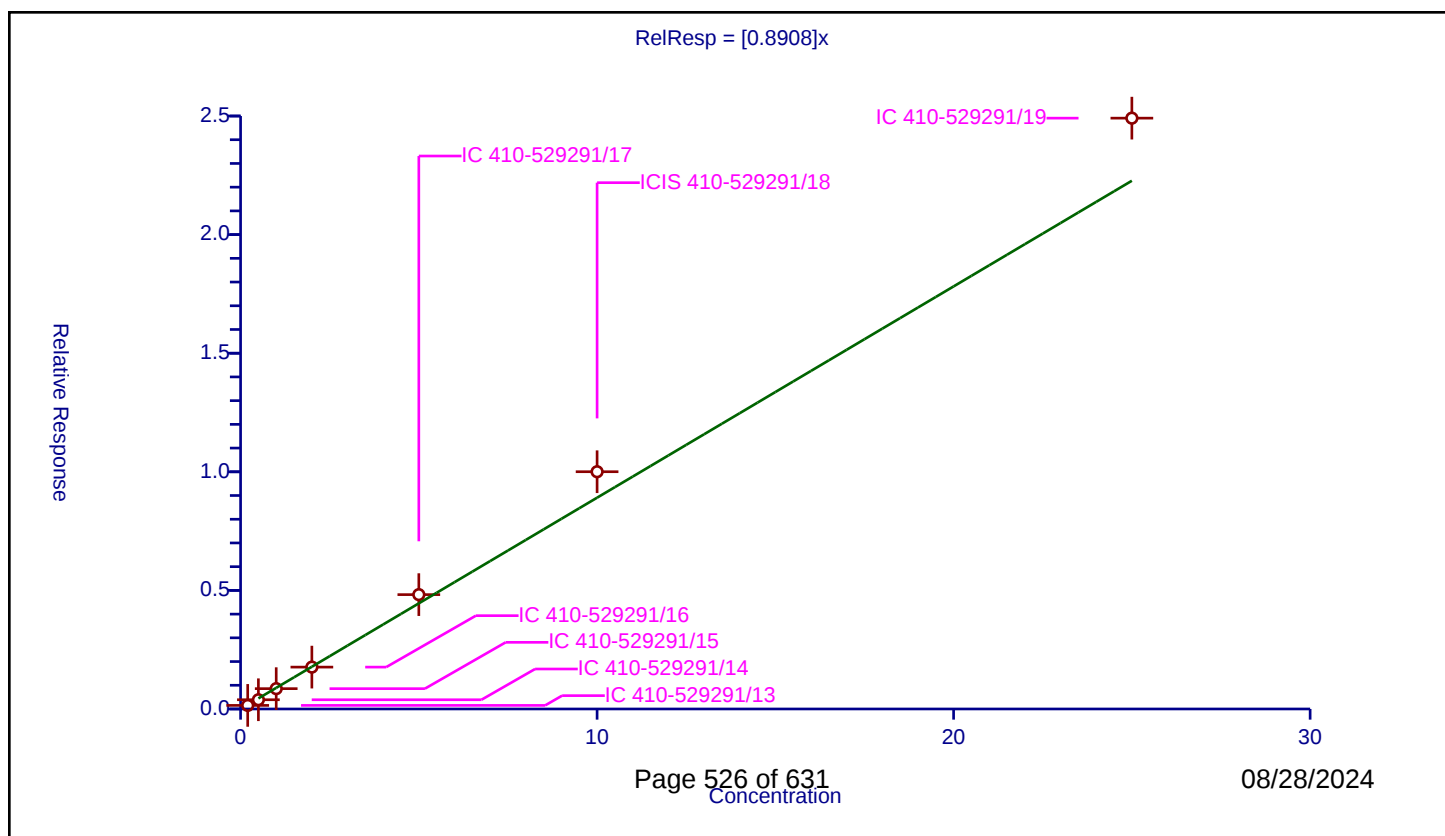
Curve Coefficients

Intercept: 0
Slope: 0.8908

Error Coefficients

Relative Standard Deviation: 11.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.151098	10.0	1550719.0	0.755488	Y
2	IC 410-529291/14	0.5	0.38952	10.0	1551422.0	0.77904	Y
3	IC 410-529291/15	1.0	0.8572	10.0	1571302.0	0.8572	Y
4	IC 410-529291/16	2.0	1.766009	10.0	1575332.0	0.883004	Y
5	IC 410-529291/17	5.0	4.821398	10.0	1621905.0	0.96428	Y
6	ICIS 410-529291/18	10.0	10.002812	10.0	1632214.0	1.000281	Y
7	IC 410-529291/19	25.0	24.909939	10.0	1683257.0	0.996398	Y



Calibration

/ Bromoform

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

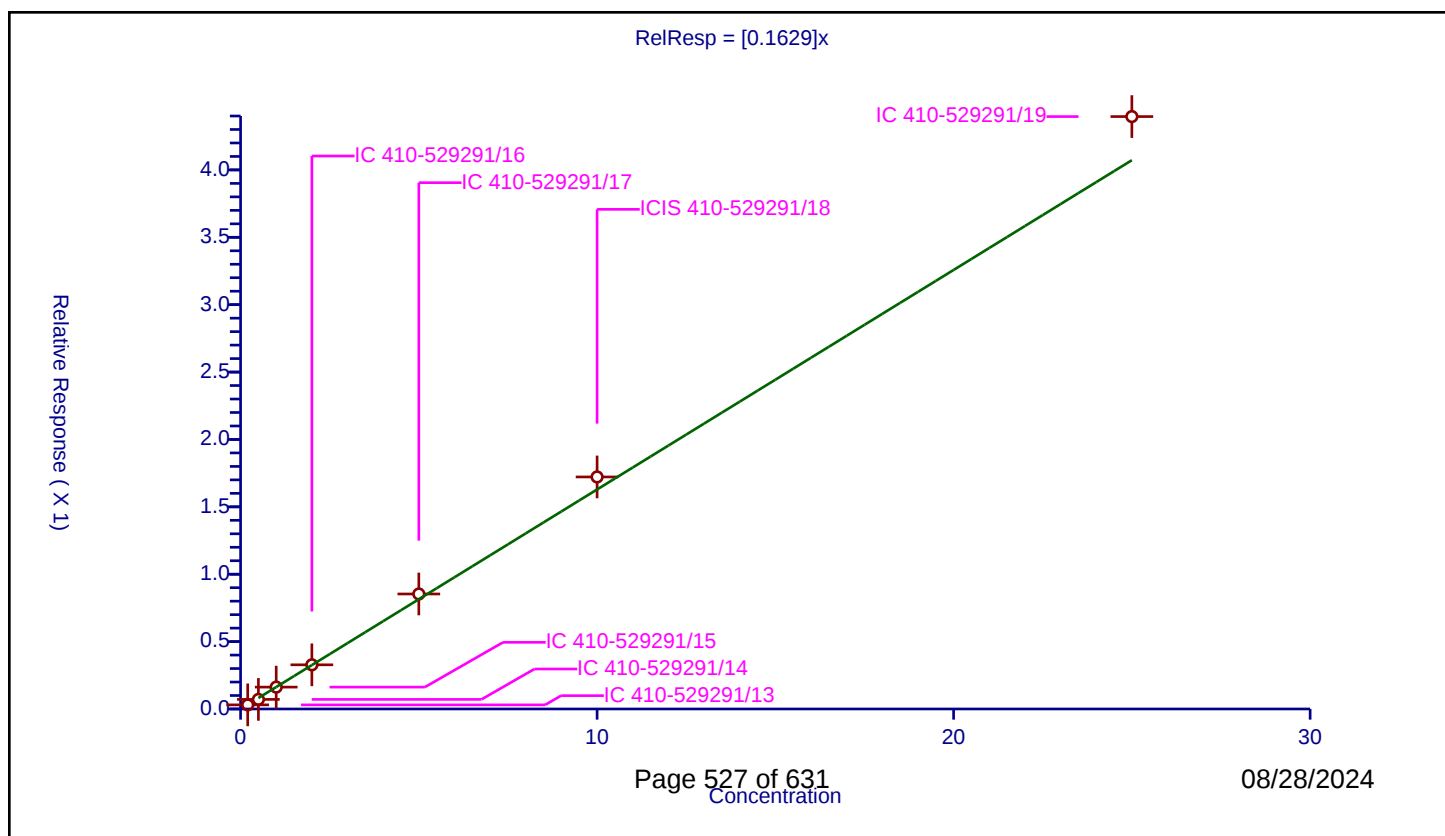
Curve Coefficients

Intercept: 0
 Slope: 0.1629

Error Coefficients

Relative Standard Deviation: 7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.030618	10.0	1550719.0	0.15309	Y
2	IC 410-529291/14	0.5	0.071135	10.0	1551422.0	0.142269	Y
3	IC 410-529291/15	1.0	0.162318	10.0	1571302.0	0.162318	Y
4	IC 410-529291/16	2.0	0.327715	10.0	1575332.0	0.163858	Y
5	IC 410-529291/17	5.0	0.853324	10.0	1621905.0	0.170665	Y
6	ICIS 410-529291/18	10.0	1.721784	10.0	1632214.0	0.172178	Y
7	IC 410-529291/19	25.0	4.395877	10.0	1683257.0	0.175835	Y



Calibration

/ Isopropylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

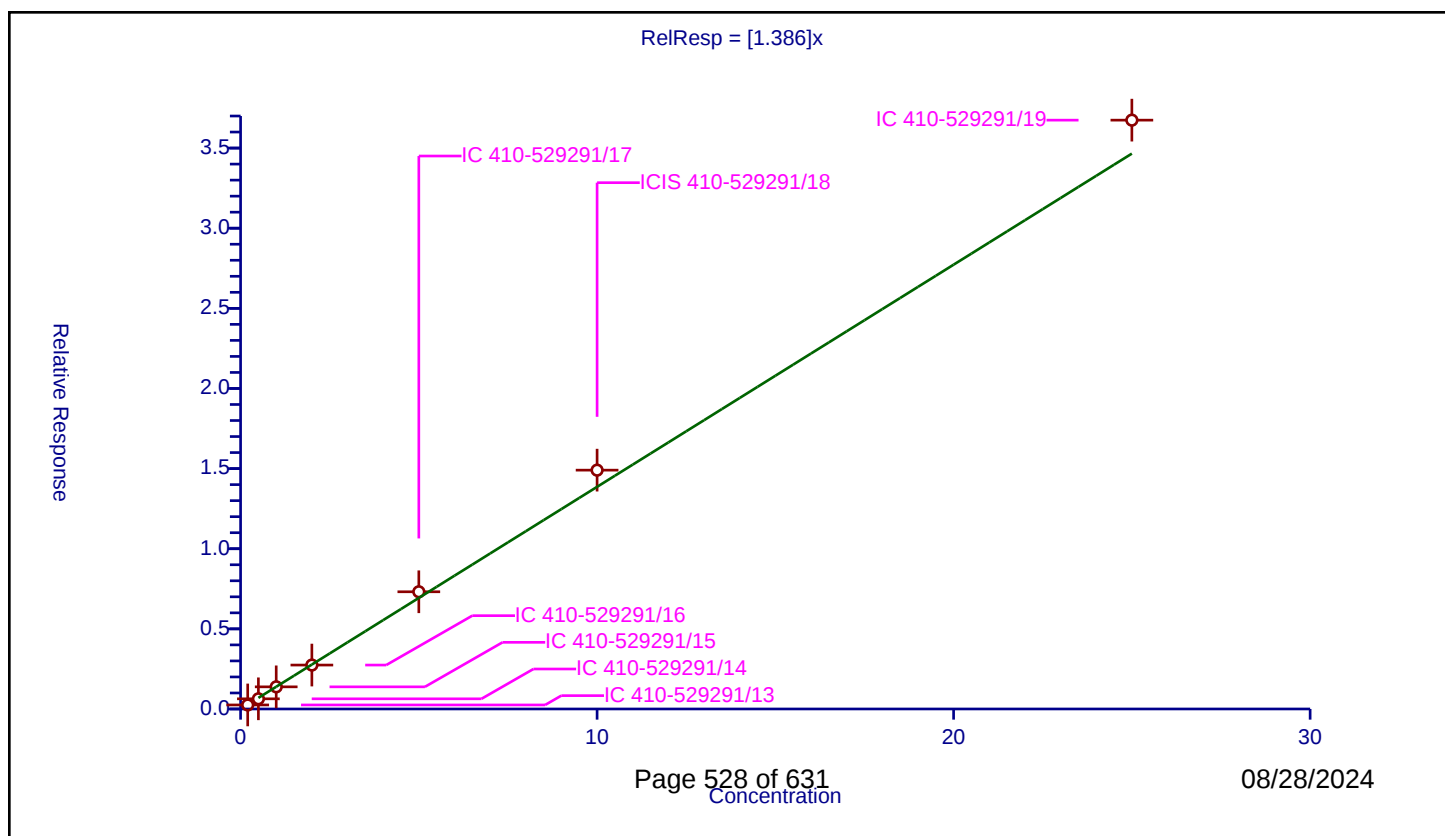
Curve Coefficients

Intercept: 0
Slope: 1.386

Error Coefficients

Relative Standard Deviation: 6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.251645	10.0	1550719.0	1.258223	Y
2	IC 410-529291/14	0.5	0.635005	10.0	1551422.0	1.270009	Y
3	IC 410-529291/15	1.0	1.381332	10.0	1571302.0	1.381332	Y
4	IC 410-529291/16	2.0	2.741892	10.0	1575332.0	1.370946	Y
5	IC 410-529291/17	5.0	7.313776	10.0	1621905.0	1.462755	Y
6	ICIS 410-529291/18	10.0	14.90239	10.0	1632214.0	1.490239	Y
7	IC 410-529291/19	25.0	36.742732	10.0	1683257.0	1.469709	Y



Calibration

/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

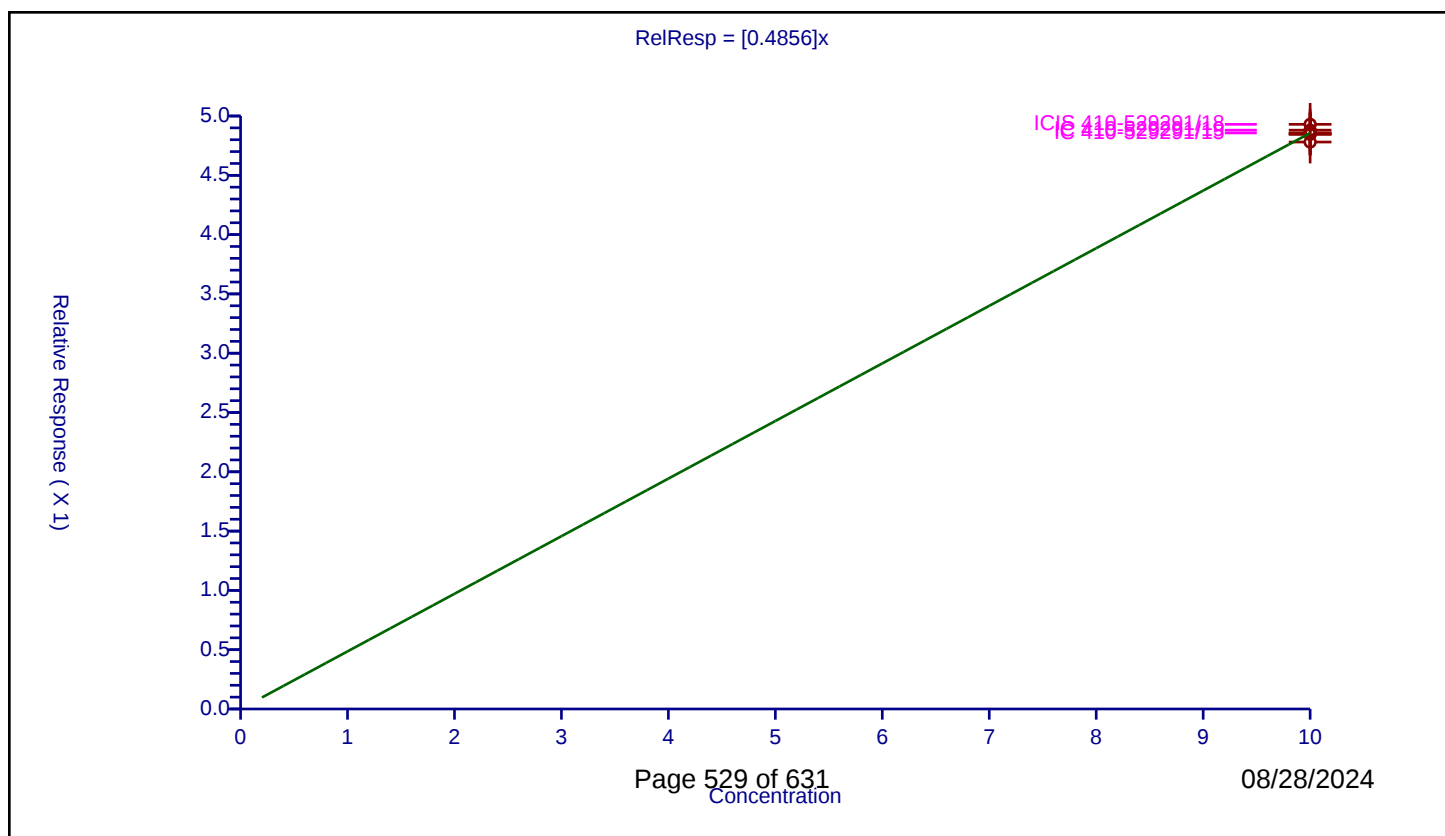
Curve Coefficients

Intercept: 0
Slope: 0.4856

Error Coefficients

Relative Standard Deviation: 0.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	10.0	4.78057	10.0	1550719.0	0.478057	Y
2	IC 410-529291/14	10.0	4.846096	10.0	1551422.0	0.48461	Y
3	IC 410-529291/15	10.0	4.857405	10.0	1571302.0	0.48574	Y
4	IC 410-529291/16	10.0	4.853161	10.0	1575332.0	0.485316	Y
5	IC 410-529291/17	10.0	4.847238	10.0	1621905.0	0.484724	Y
6	ICIS 410-529291/18	10.0	4.929917	10.0	1632214.0	0.492992	Y
7	IC 410-529291/19	10.0	4.880805	10.0	1683257.0	0.488081	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

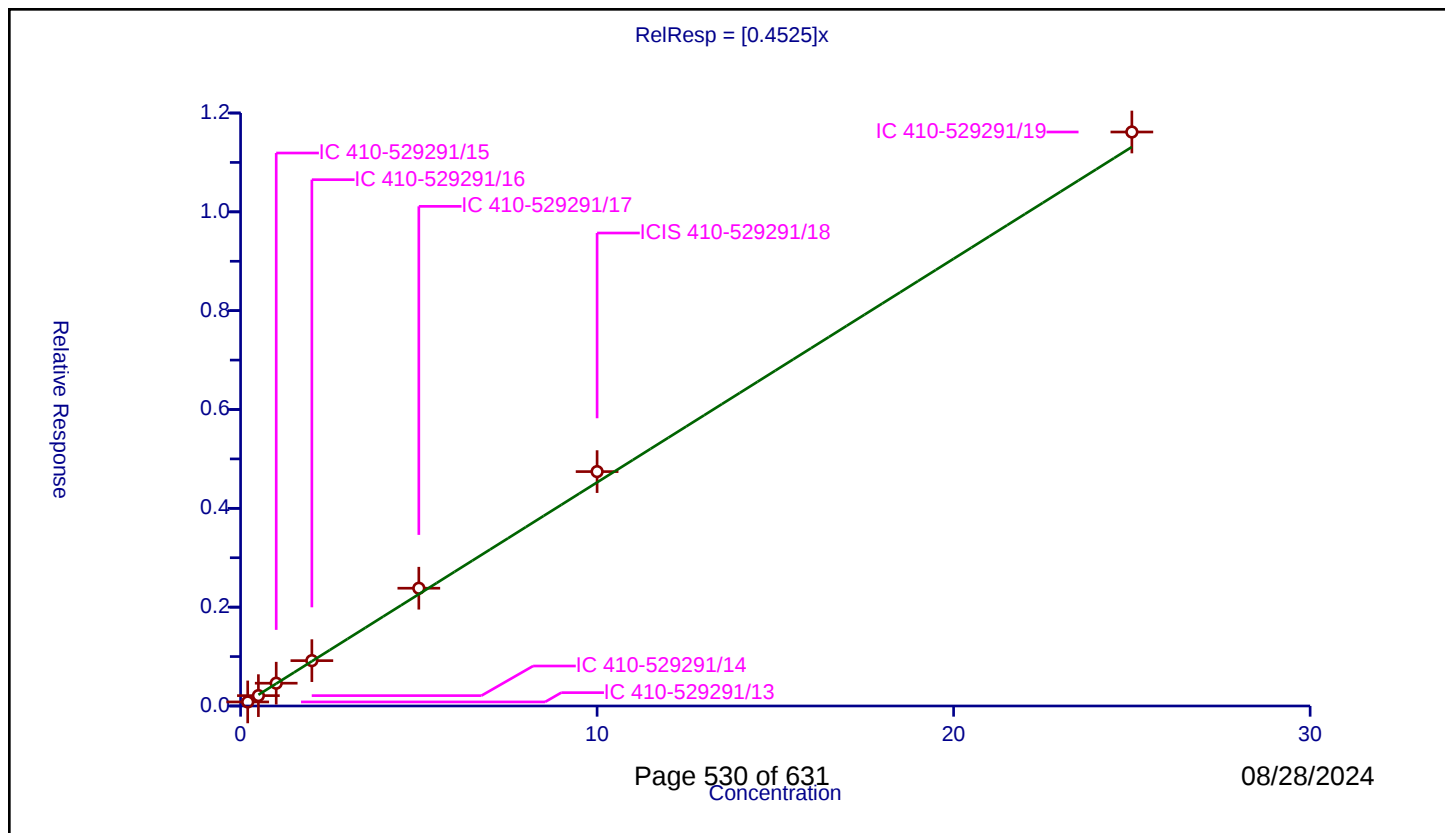
Curve Coefficients

Intercept: 0
Slope: 0.4525

Error Coefficients

Relative Standard Deviation: 5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.082499	10.0	859400.0	0.412497	Y
2	IC 410-529291/14	0.5	0.209737	10.0	858934.0	0.419473	Y
3	IC 410-529291/15	1.0	0.461156	10.0	872460.0	0.461156	Y
4	IC 410-529291/16	2.0	0.917854	10.0	872633.0	0.458927	Y
5	IC 410-529291/17	5.0	2.383104	10.0	910535.0	0.476621	Y
6	ICIS 410-529291/18	10.0	4.743056	10.0	922380.0	0.474306	Y
7	IC 410-529291/19	25.0	11.615989	10.0	959394.0	0.46464	Y



Calibration

/ Bromobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

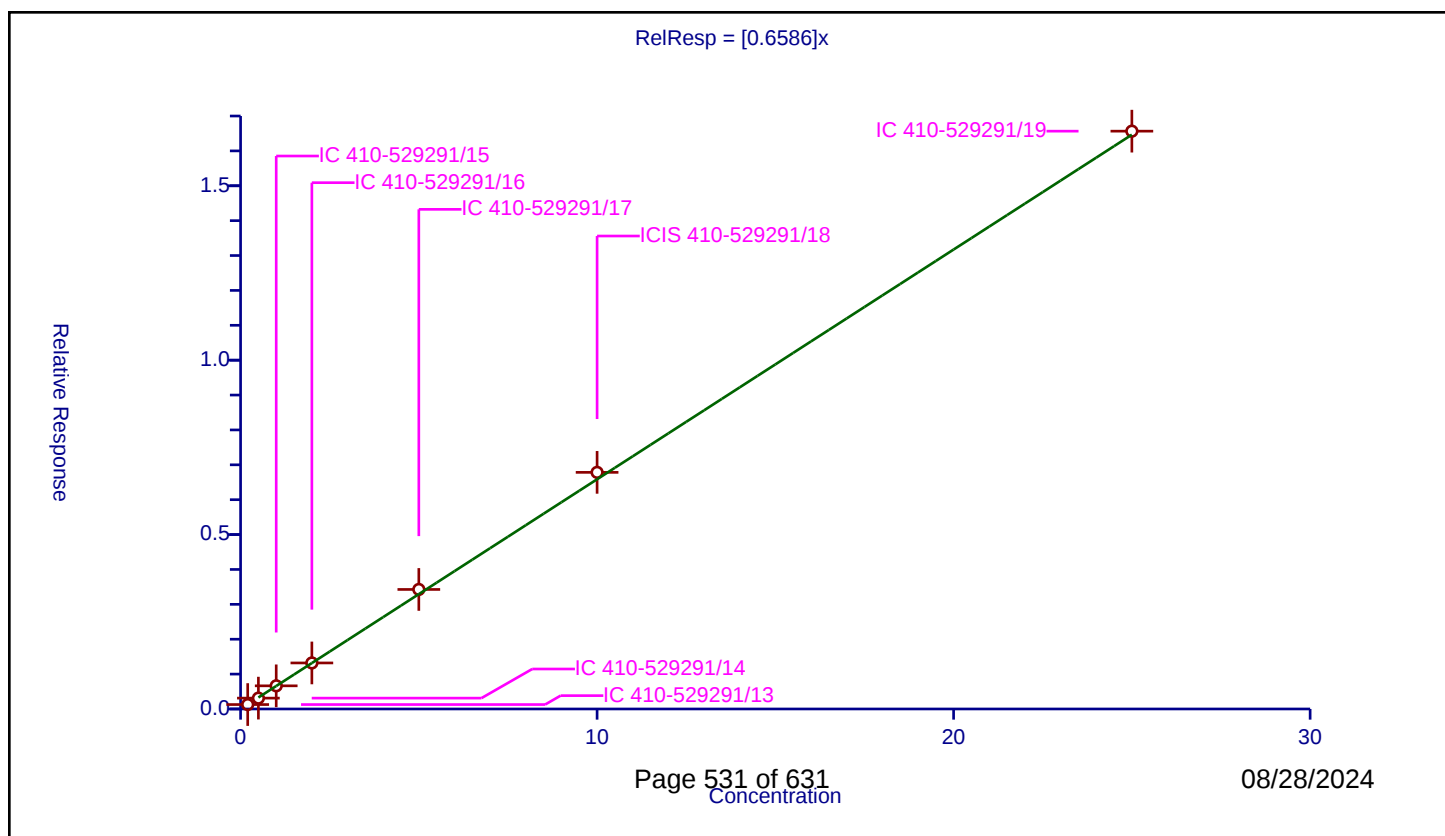
Curve Coefficients

Intercept: 0
Slope: 0.6586

Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.127414	10.0	859400.0	0.637072	Y
2	IC 410-529291/14	0.5	0.311363	10.0	858934.0	0.622725	Y
3	IC 410-529291/15	1.0	0.663881	10.0	872460.0	0.663881	Y
4	IC 410-529291/16	2.0	1.319982	10.0	872633.0	0.659991	Y
5	IC 410-529291/17	5.0	3.42726	10.0	910535.0	0.685452	Y
6	ICIS 410-529291/18	10.0	6.783647	10.0	922380.0	0.678365	Y
7	IC 410-529291/19	25.0	16.565697	10.0	959394.0	0.662628	Y



Calibration

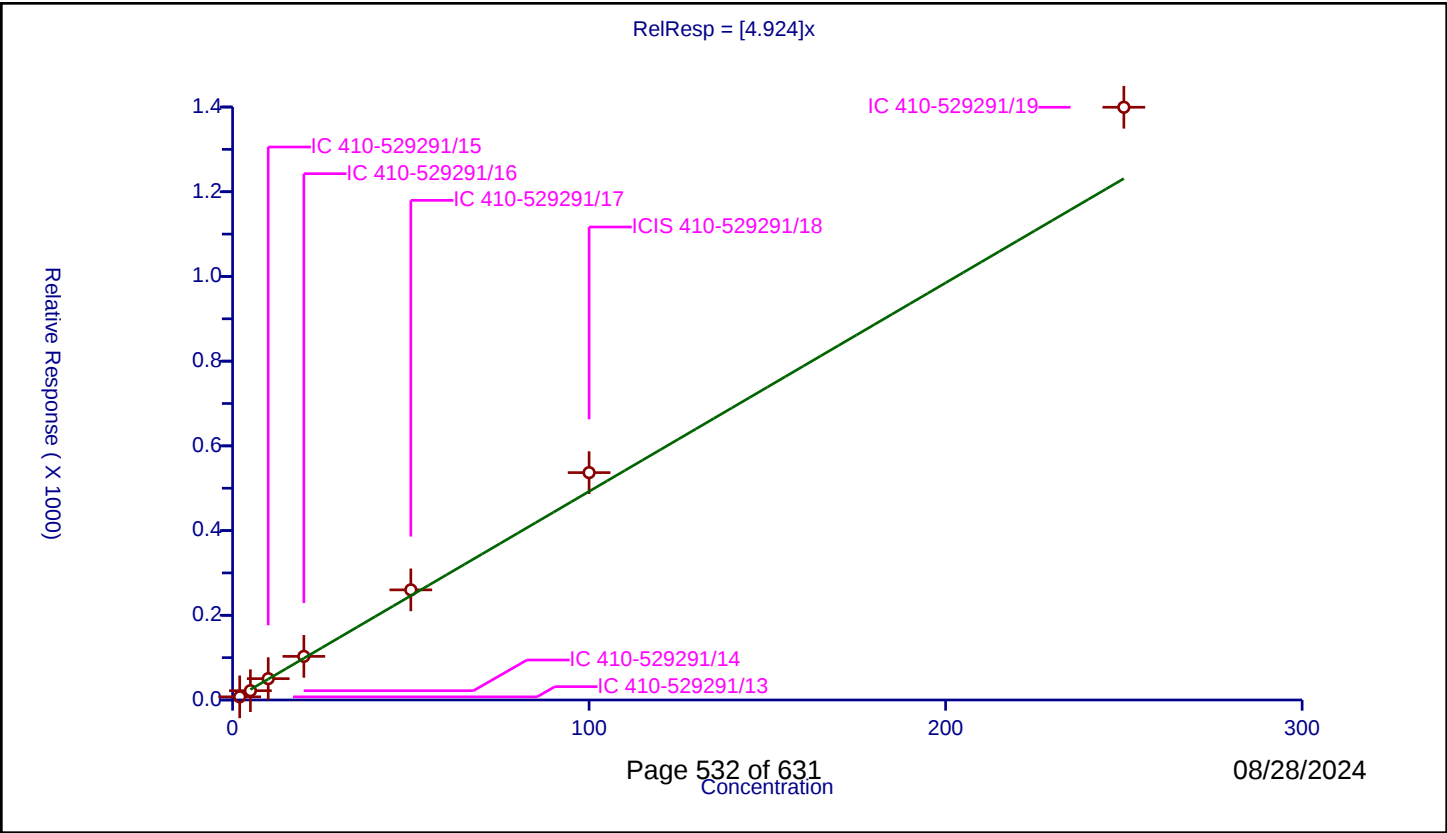
/ trans-1,4-Dichloro-2-butene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.924
Error Coefficients	

Relative Standard Deviation: 13.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	2.0	7.438646	50.0	98405.0	3.719323	Y
2	IC 410-529291/14	5.0	21.969234	50.0	101542.0	4.393847	Y
3	IC 410-529291/15	10.0	50.38973	50.0	102122.0	5.038973	Y
4	IC 410-529291/16	20.0	102.998165	50.0	99711.0	5.149908	Y
5	IC 410-529291/17	50.0	260.009703	50.0	110278.0	5.200194	Y
6	ICIS 410-529291/18	100.0	536.842471	50.0	107980.0	5.368425	Y
7	IC 410-529291/19	250.0	1399.460935	50.0	107501.0	5.597844	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

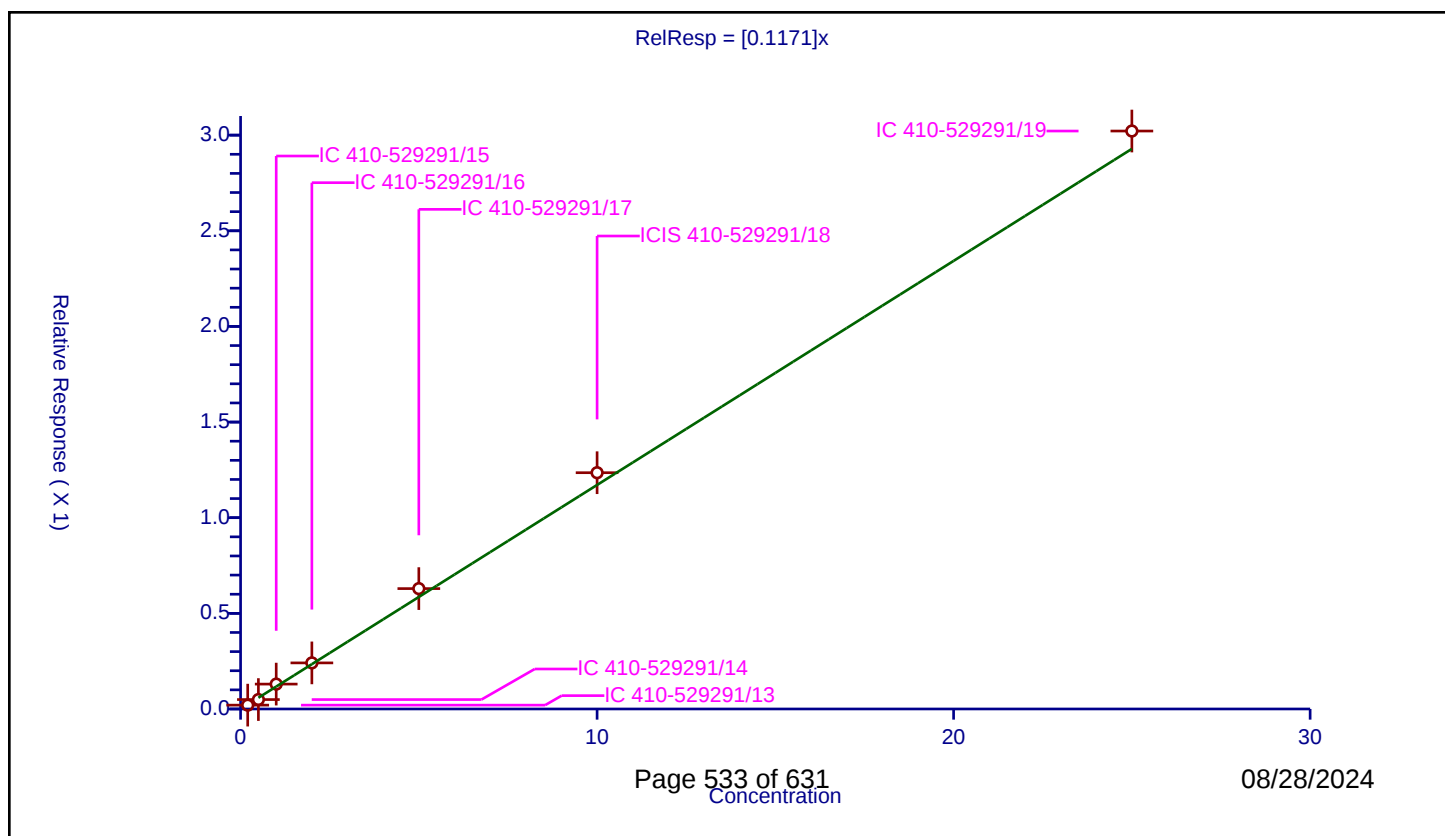
Curve Coefficients

Intercept: 0
 Slope: 0.1171

Error Coefficients

Relative Standard Deviation: 10.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.020095	10.0	859400.0	0.100477	Y
2	IC 410-529291/14	0.5	0.049294	10.0	858934.0	0.098587	Y
3	IC 410-529291/15	1.0	0.130115	10.0	872460.0	0.130115	Y
4	IC 410-529291/16	2.0	0.240983	10.0	872633.0	0.120492	Y
5	IC 410-529291/17	5.0	0.629322	10.0	910535.0	0.125864	Y
6	ICIS 410-529291/18	10.0	1.235304	10.0	922380.0	0.12353	Y
7	IC 410-529291/19	25.0	3.02147	10.0	959394.0	0.120859	Y

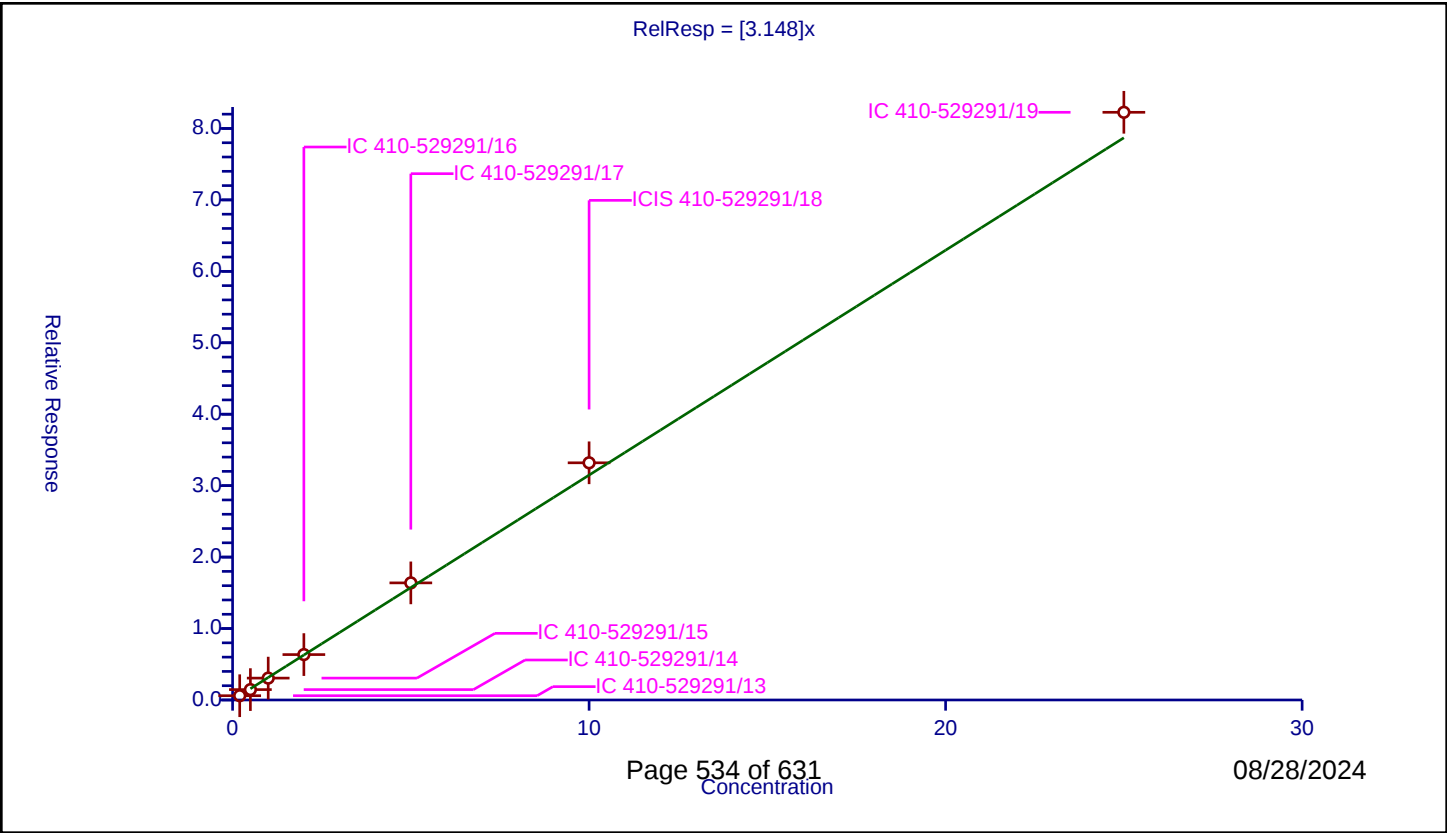


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.148
Error Coefficients	

Relative Standard Deviation: 5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.598871	10.0	859400.0	2.994357	Y
2	IC 410-529291/14	0.5	1.454675	10.0	858934.0	2.90935	Y
3	IC 410-529291/15	1.0	3.063728	10.0	872460.0	3.063728	Y
4	IC 410-529291/16	2.0	6.356555	10.0	872633.0	3.178278	Y
5	IC 410-529291/17	5.0	16.391155	10.0	910535.0	3.278231	Y
6	ICIS 410-529291/18	10.0	33.198389	10.0	922380.0	3.319839	Y
7	IC 410-529291/19	25.0	82.262501	10.0	959394.0	3.2905	Y



Calibration

/ 2-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

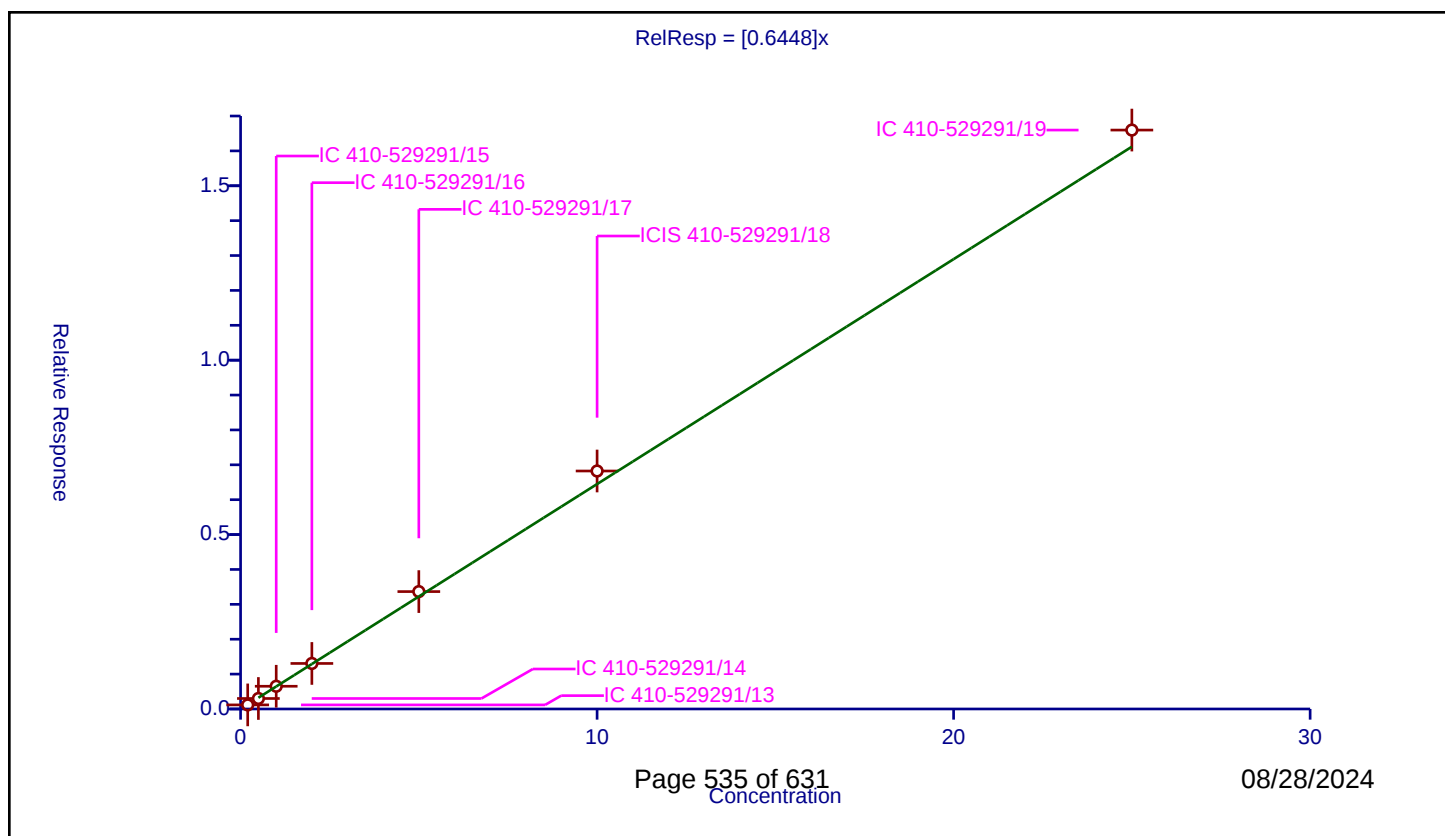
Curve Coefficients

Intercept: 0
Slope: 0.6448

Error Coefficients

Relative Standard Deviation: 5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.117605	10.0	859400.0	0.588027	Y
2	IC 410-529291/14	0.5	0.301129	10.0	858934.0	0.602258	Y
3	IC 410-529291/15	1.0	0.651377	10.0	872460.0	0.651377	Y
4	IC 410-529291/16	2.0	1.305509	10.0	872633.0	0.652754	Y
5	IC 410-529291/17	5.0	3.365494	10.0	910535.0	0.673099	Y
6	ICIS 410-529291/18	10.0	6.8226	10.0	922380.0	0.68226	Y
7	IC 410-529291/19	25.0	16.59706	10.0	959394.0	0.663882	Y



Calibration

/ 1,3,5-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

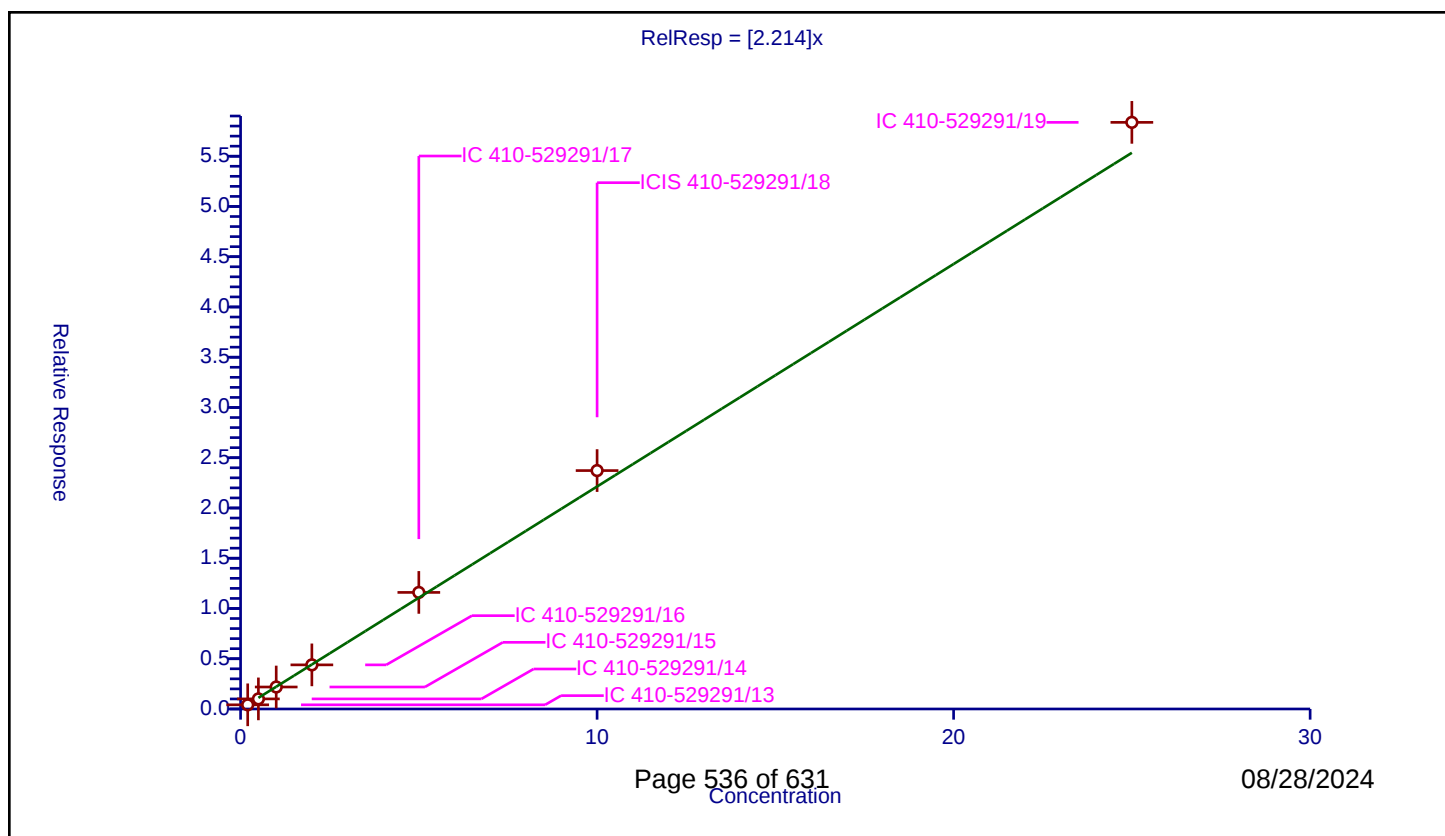
Curve Coefficients

Intercept: 0
Slope: 2.214

Error Coefficients

Relative Standard Deviation: 6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.415266	10.0	859400.0	2.076332	Y
2	IC 410-529291/14	0.5	1.005572	10.0	858934.0	2.011144	Y
3	IC 410-529291/15	1.0	2.18653	10.0	872460.0	2.18653	Y
4	IC 410-529291/16	2.0	4.390139	10.0	872633.0	2.195069	Y
5	IC 410-529291/17	5.0	11.597544	10.0	910535.0	2.319509	Y
6	ICIS 410-529291/18	10.0	23.721362	10.0	922380.0	2.372136	Y
7	IC 410-529291/19	25.0	58.368282	10.0	959394.0	2.334731	Y



Calibration

/ 4-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

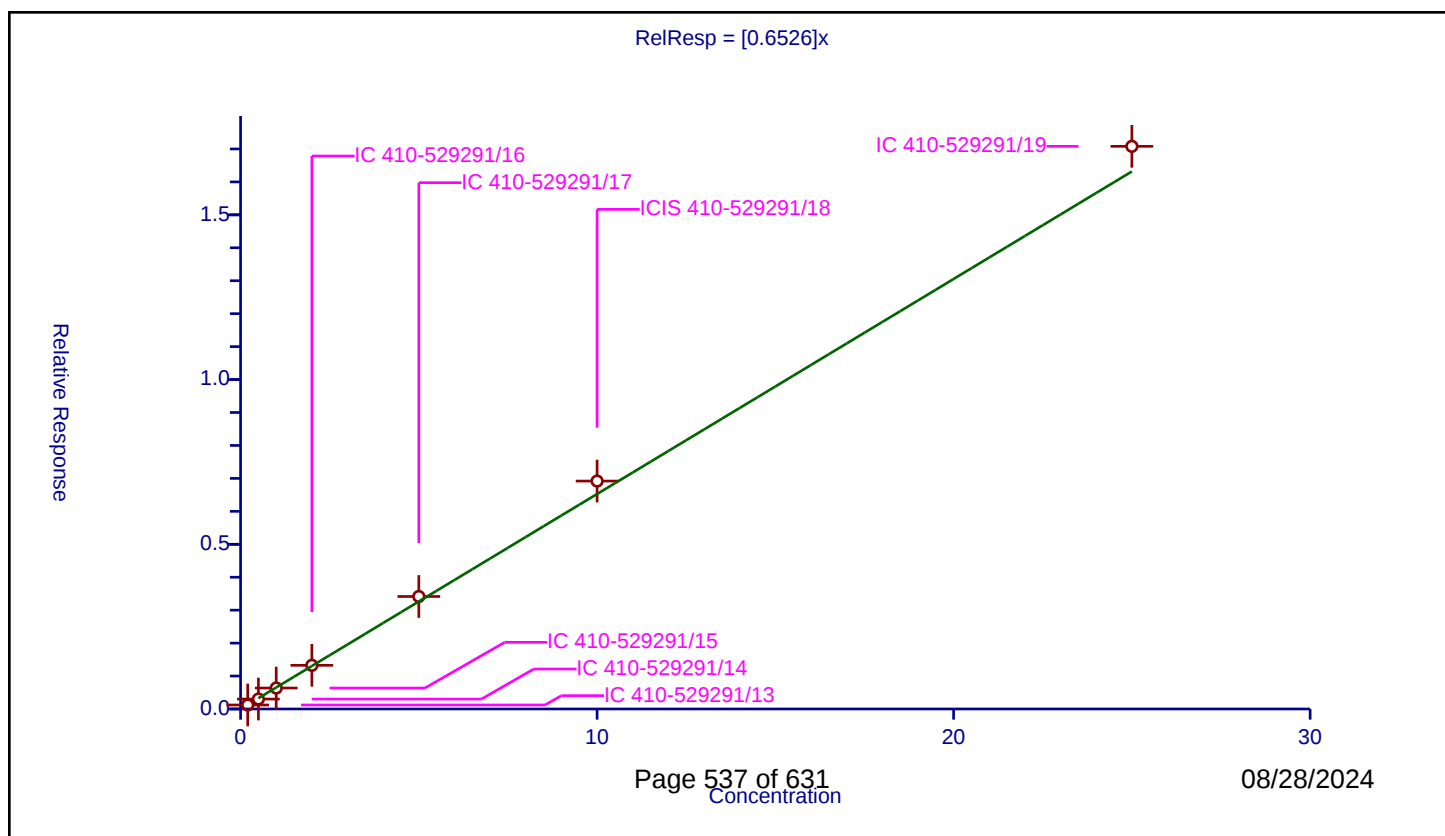
Curve Coefficients

Intercept: 0
Slope: 0.6526

Error Coefficients

Relative Standard Deviation: 5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.121806	10.0	859400.0	0.60903	Y
2	IC 410-529291/14	0.5	0.301758	10.0	858934.0	0.603516	Y
3	IC 410-529291/15	1.0	0.635456	10.0	872460.0	0.635456	Y
4	IC 410-529291/16	2.0	1.32515	10.0	872633.0	0.662575	Y
5	IC 410-529291/17	5.0	3.41452	10.0	910535.0	0.682904	Y
6	ICIS 410-529291/18	10.0	6.918721	10.0	922380.0	0.691872	Y
7	IC 410-529291/19	25.0	17.079521	10.0	959394.0	0.683181	Y

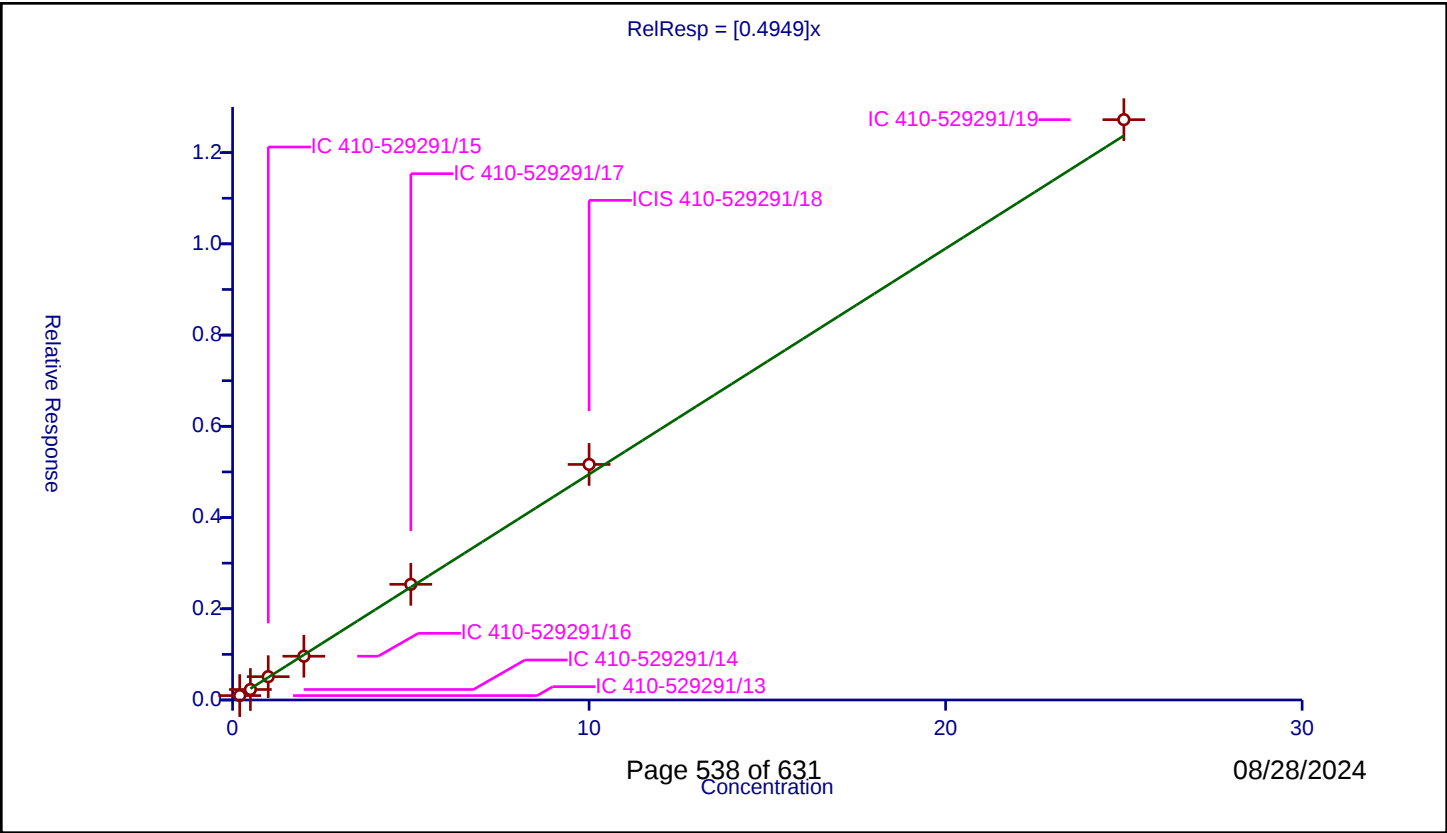


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4949
Error Coefficients	

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.096032	10.0	859400.0	0.480161	Y
2	IC 410-529291/14	0.5	0.230309	10.0	858934.0	0.460617	Y
3	IC 410-529291/15	1.0	0.511152	10.0	872460.0	0.511152	Y
4	IC 410-529291/16	2.0	0.959384	10.0	872633.0	0.479692	Y
5	IC 410-529291/17	5.0	2.535762	10.0	910535.0	0.507152	Y
6	ICIS 410-529291/18	10.0	5.164	10.0	922380.0	0.5164	Y
7	IC 410-529291/19	25.0	12.722938	10.0	959394.0	0.508918	Y



Calibration

/ Pentachloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

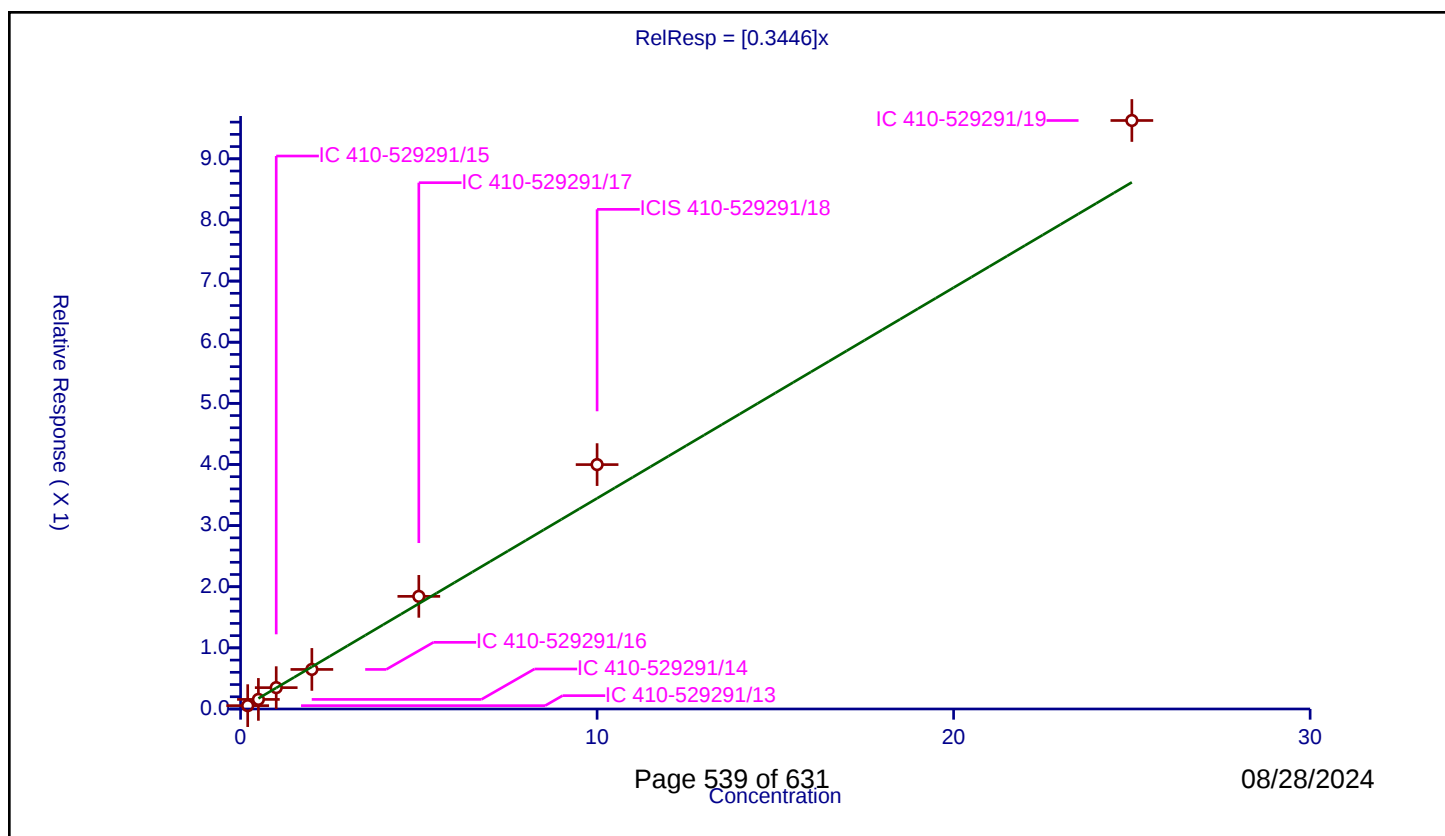
Curve Coefficients

Intercept: 0
Slope: 0.3446

Error Coefficients

Relative Standard Deviation: 12.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.05455	10.0	859400.0	0.272748	Y
2	IC 410-529291/14	0.5	0.156671	10.0	858934.0	0.313342	Y
3	IC 410-529291/15	1.0	0.349357	10.0	872460.0	0.349357	Y
4	IC 410-529291/16	2.0	0.647179	10.0	872633.0	0.32359	Y
5	IC 410-529291/17	5.0	1.84251	10.0	910535.0	0.368502	Y
6	ICIS 410-529291/18	10.0	3.997745	10.0	922380.0	0.399774	Y
7	IC 410-529291/19	25.0	9.62665	10.0	959394.0	0.385066	Y



Calibration

/ 1,2,4-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

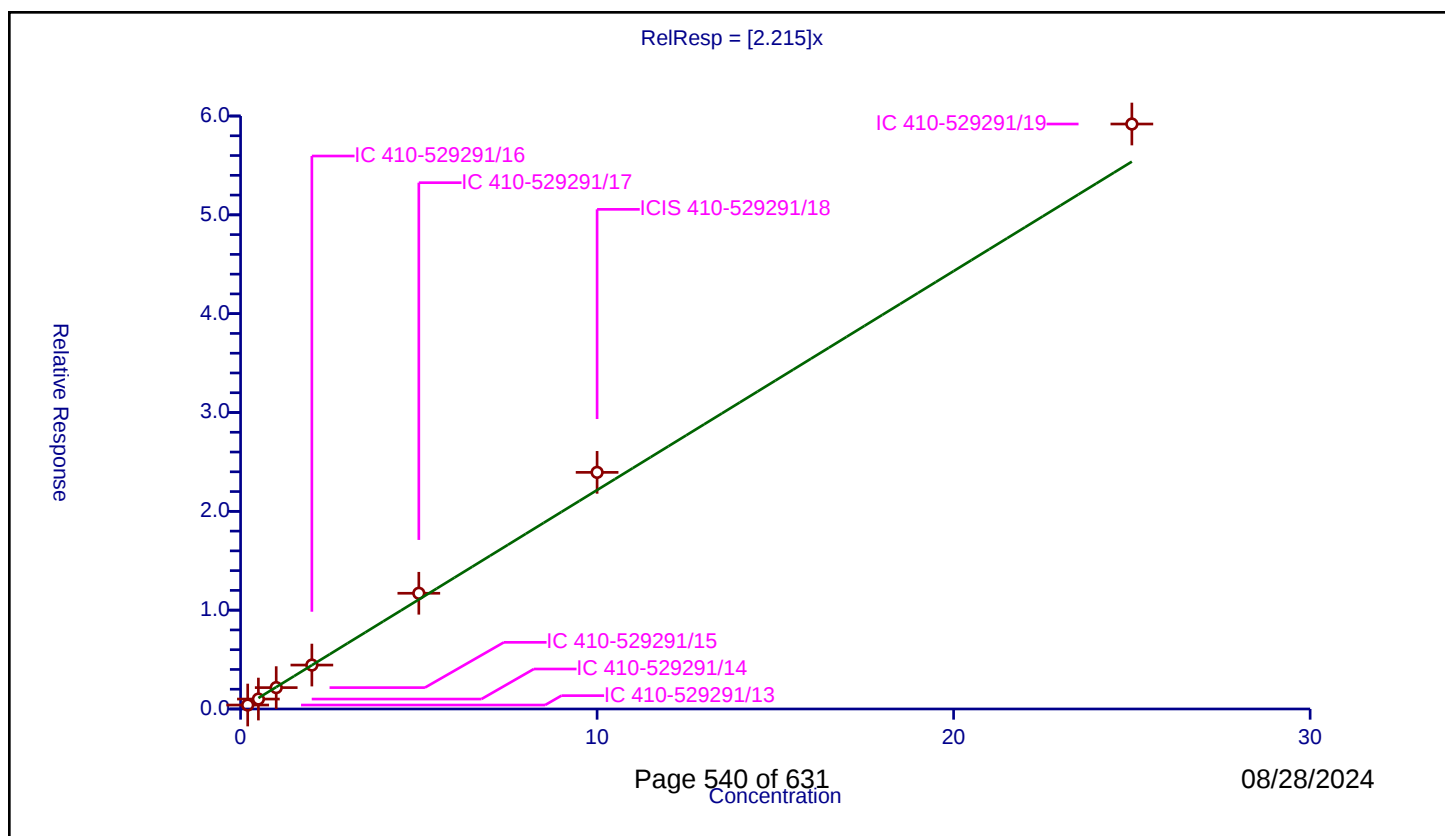
Curve Coefficients

Intercept: 0
 Slope: 2.215

Error Coefficients

Relative Standard Deviation: 7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.401955	10.0	859400.0	2.009774	Y
2	IC 410-529291/14	0.5	1.004722	10.0	858934.0	2.009444	Y
3	IC 410-529291/15	1.0	2.161899	10.0	872460.0	2.161899	Y
4	IC 410-529291/16	2.0	4.444893	10.0	872633.0	2.222446	Y
5	IC 410-529291/17	5.0	11.710028	10.0	910535.0	2.342006	Y
6	ICIS 410-529291/18	10.0	23.942638	10.0	922380.0	2.394264	Y
7	IC 410-529291/19	25.0	59.189843	10.0	959394.0	2.367594	Y



Calibration

/ sec-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

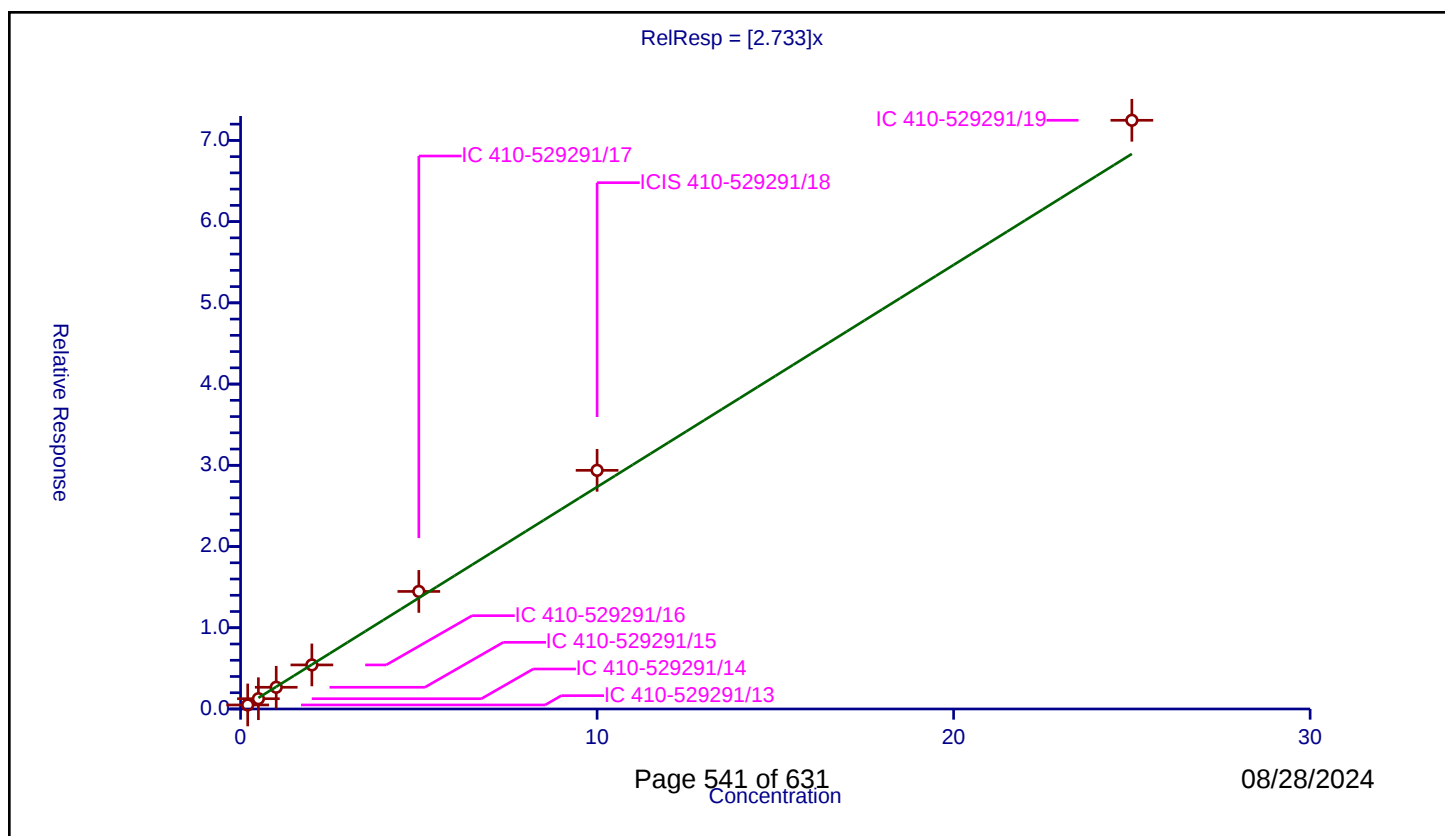
Curve Coefficients

Intercept: 0
Slope: 2.733

Error Coefficients

Relative Standard Deviation: 6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.496684	10.0	859400.0	2.483419	Y
2	IC 410-529291/14	0.5	1.26678	10.0	858934.0	2.533559	Y
3	IC 410-529291/15	1.0	2.673647	10.0	872460.0	2.673647	Y
4	IC 410-529291/16	2.0	5.424457	10.0	872633.0	2.712228	Y
5	IC 410-529291/17	5.0	14.471108	10.0	910535.0	2.894222	Y
6	ICIS 410-529291/18	10.0	29.381741	10.0	922380.0	2.938174	Y
7	IC 410-529291/19	25.0	72.474687	10.0	959394.0	2.898987	Y



Calibration

/ 1,3-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

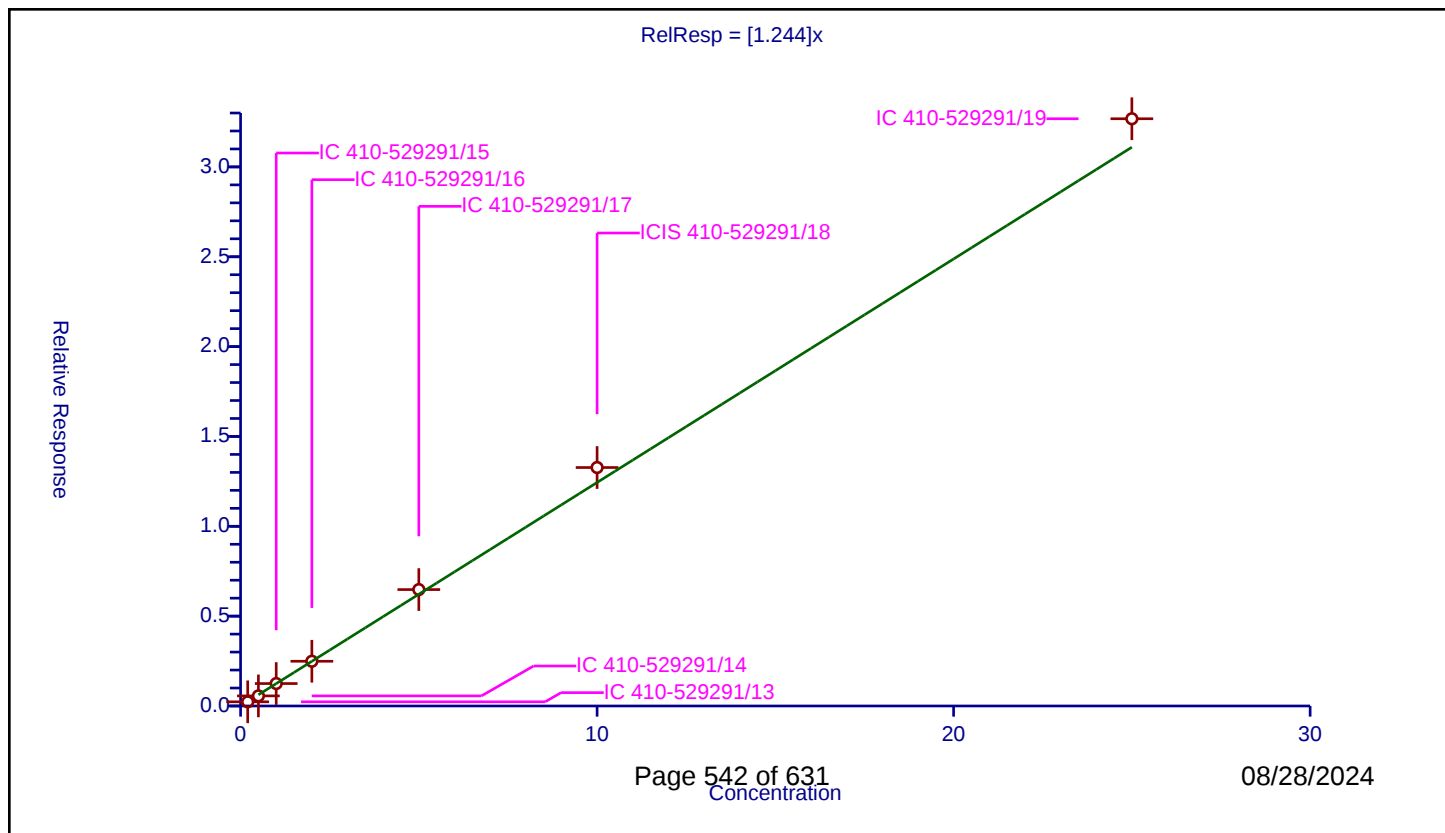
Curve Coefficients

Intercept: 0
 Slope: 1.244

Error Coefficients

Relative Standard Deviation: 6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.232081	10.0	859400.0	1.160403	Y
2	IC 410-529291/14	0.5	0.561405	10.0	858934.0	1.12281	Y
3	IC 410-529291/15	1.0	1.249307	10.0	872460.0	1.249307	Y
4	IC 410-529291/16	2.0	2.489684	10.0	872633.0	1.244842	Y
5	IC 410-529291/17	5.0	6.478202	10.0	910535.0	1.29564	Y
6	ICIS 410-529291/18	10.0	13.271721	10.0	922380.0	1.327172	Y
7	IC 410-529291/19	25.0	32.680442	10.0	959394.0	1.307218	Y



Calibration

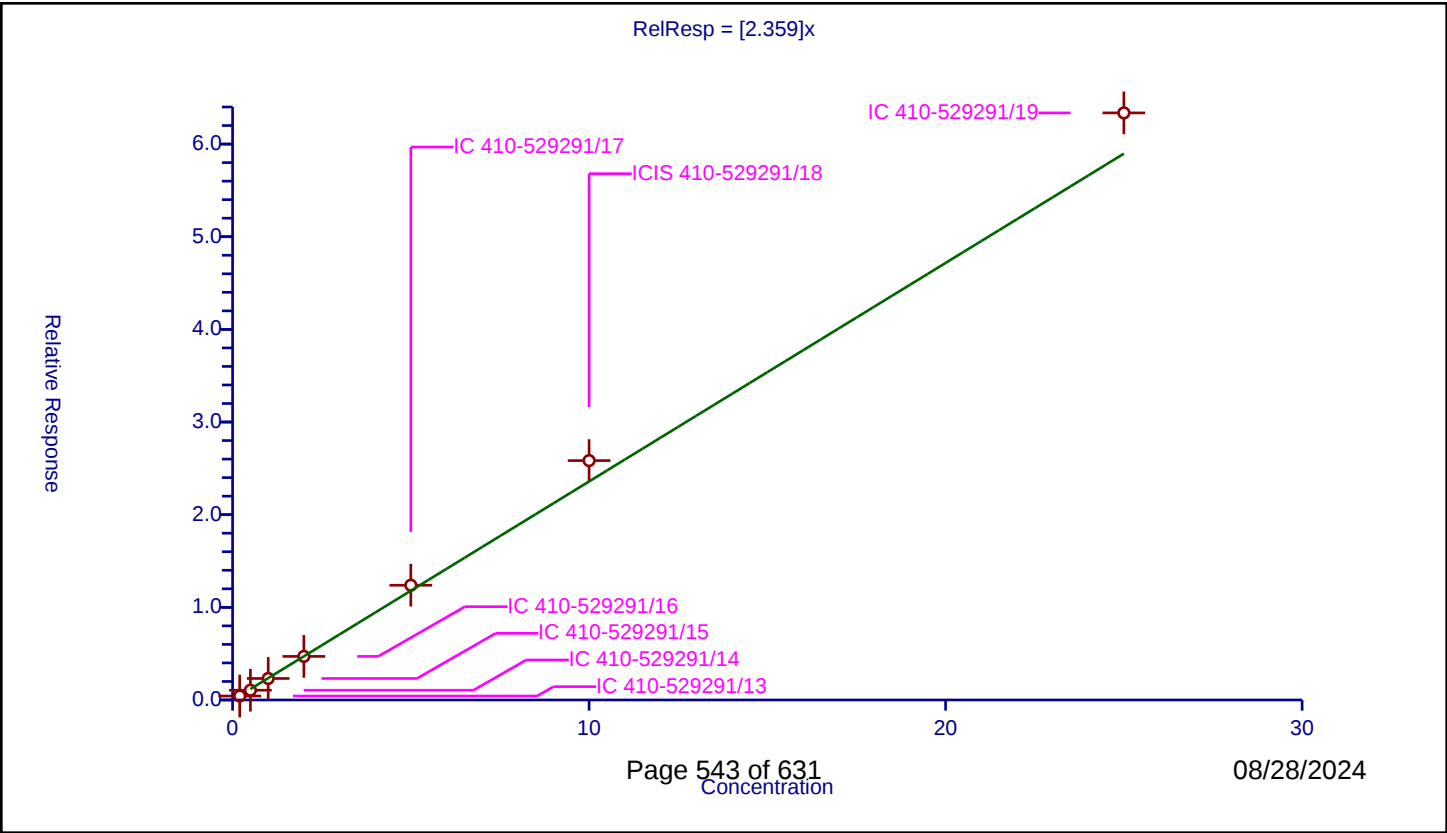
/ 4-Isopropyltoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.359
Error Coefficients	

Relative Standard Deviation: 8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.426216	10.0	859400.0	2.13108	Y
2	IC 410-529291/14	0.5	1.054668	10.0	858934.0	2.109336	Y
3	IC 410-529291/15	1.0	2.321138	10.0	872460.0	2.321138	Y
4	IC 410-529291/16	2.0	4.705048	10.0	872633.0	2.352524	Y
5	IC 410-529291/17	5.0	12.386553	10.0	910535.0	2.477311	Y
6	ICIS 410-529291/18	10.0	25.83935	10.0	922380.0	2.583935	Y
7	IC 410-529291/19	25.0	63.364822	10.0	959394.0	2.534593	Y



Calibration

/ 1,4-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

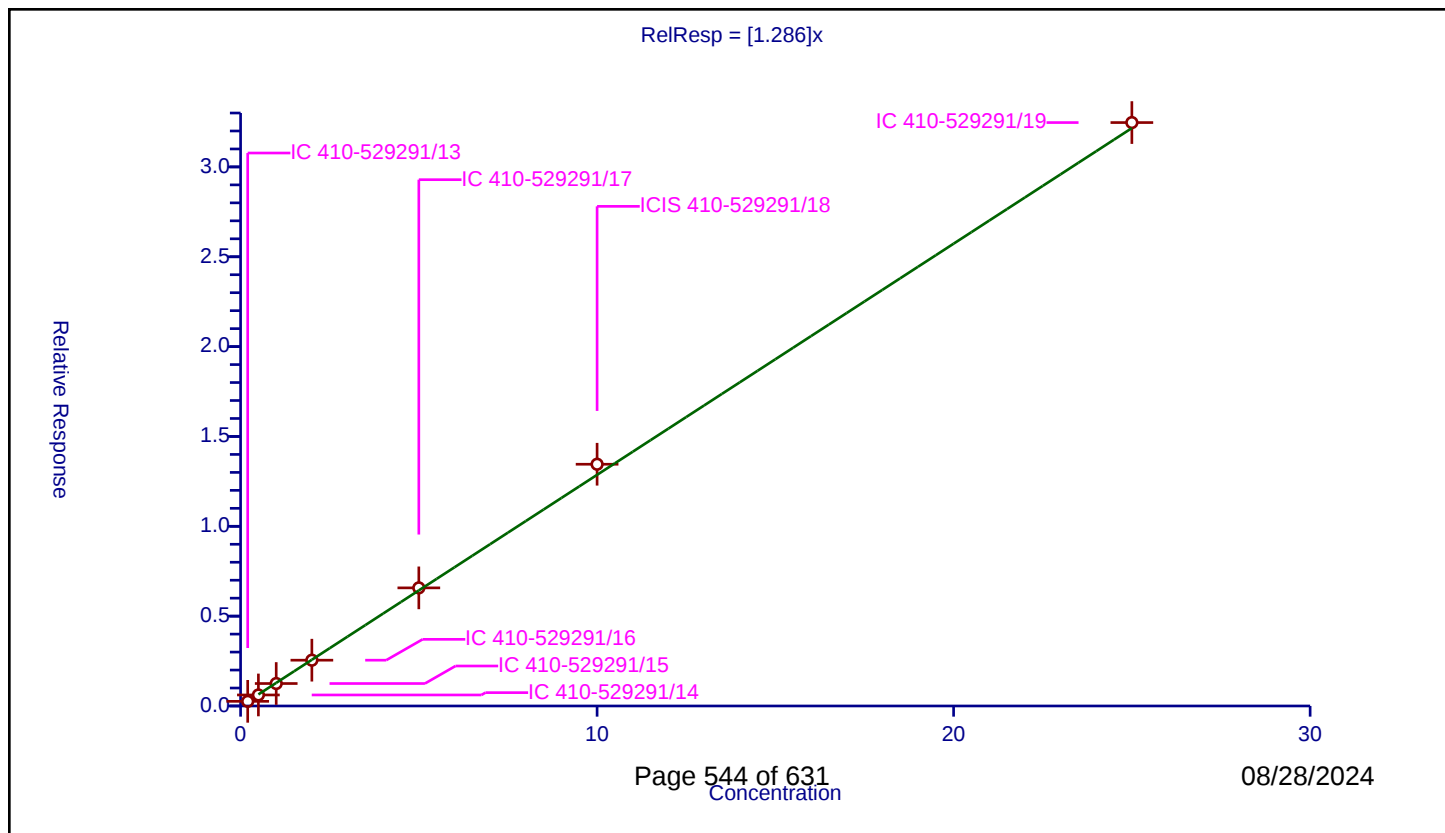
Curve Coefficients

Intercept: 0
 Slope: 1.286

Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.258541	10.0	859400.0	1.292704	Y
2	IC 410-529291/14	0.5	0.614087	10.0	858934.0	1.228174	Y
3	IC 410-529291/15	1.0	1.250842	10.0	872460.0	1.250842	Y
4	IC 410-529291/16	2.0	2.548666	10.0	872633.0	1.274333	Y
5	IC 410-529291/17	5.0	6.573147	10.0	910535.0	1.314629	Y
6	ICIS 410-529291/18	10.0	13.453685	10.0	922380.0	1.345369	Y
7	IC 410-529291/19	25.0	32.468089	10.0	959394.0	1.298724	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

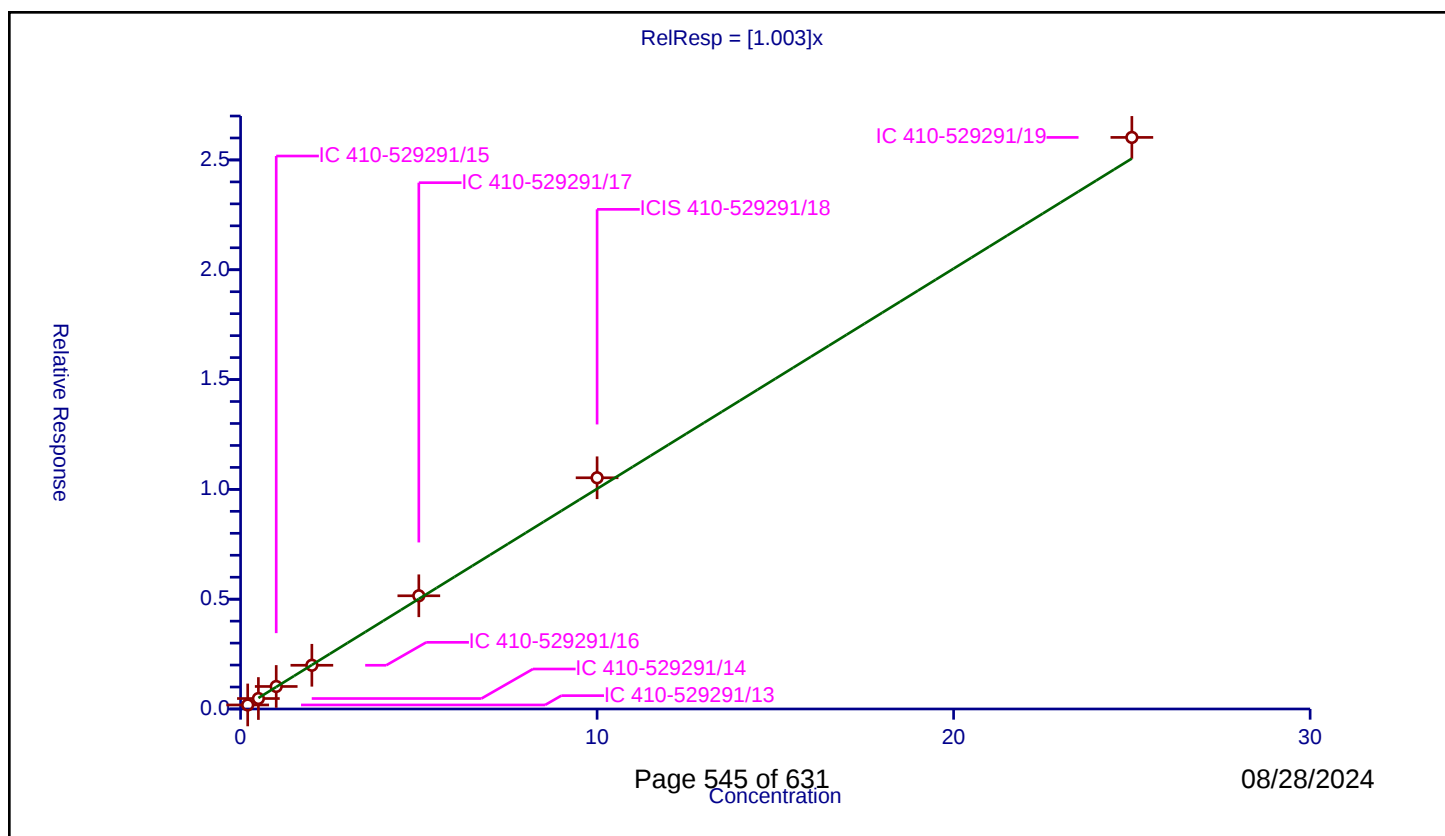
Curve Coefficients

Intercept: 0
Slope: 1.003

Error Coefficients

Relative Standard Deviation: 5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.183884	10.0	859400.0	0.919421	Y
2	IC 410-529291/14	0.5	0.476381	10.0	858934.0	0.952762	Y
3	IC 410-529291/15	1.0	1.025938	10.0	872460.0	1.025938	Y
4	IC 410-529291/16	2.0	1.990333	10.0	872633.0	0.995166	Y
5	IC 410-529291/17	5.0	5.154794	10.0	910535.0	1.030959	Y
6	ICIS 410-529291/18	10.0	10.527733	10.0	922380.0	1.052773	Y
7	IC 410-529291/19	25.0	26.025574	10.0	959394.0	1.041023	Y



Calibration

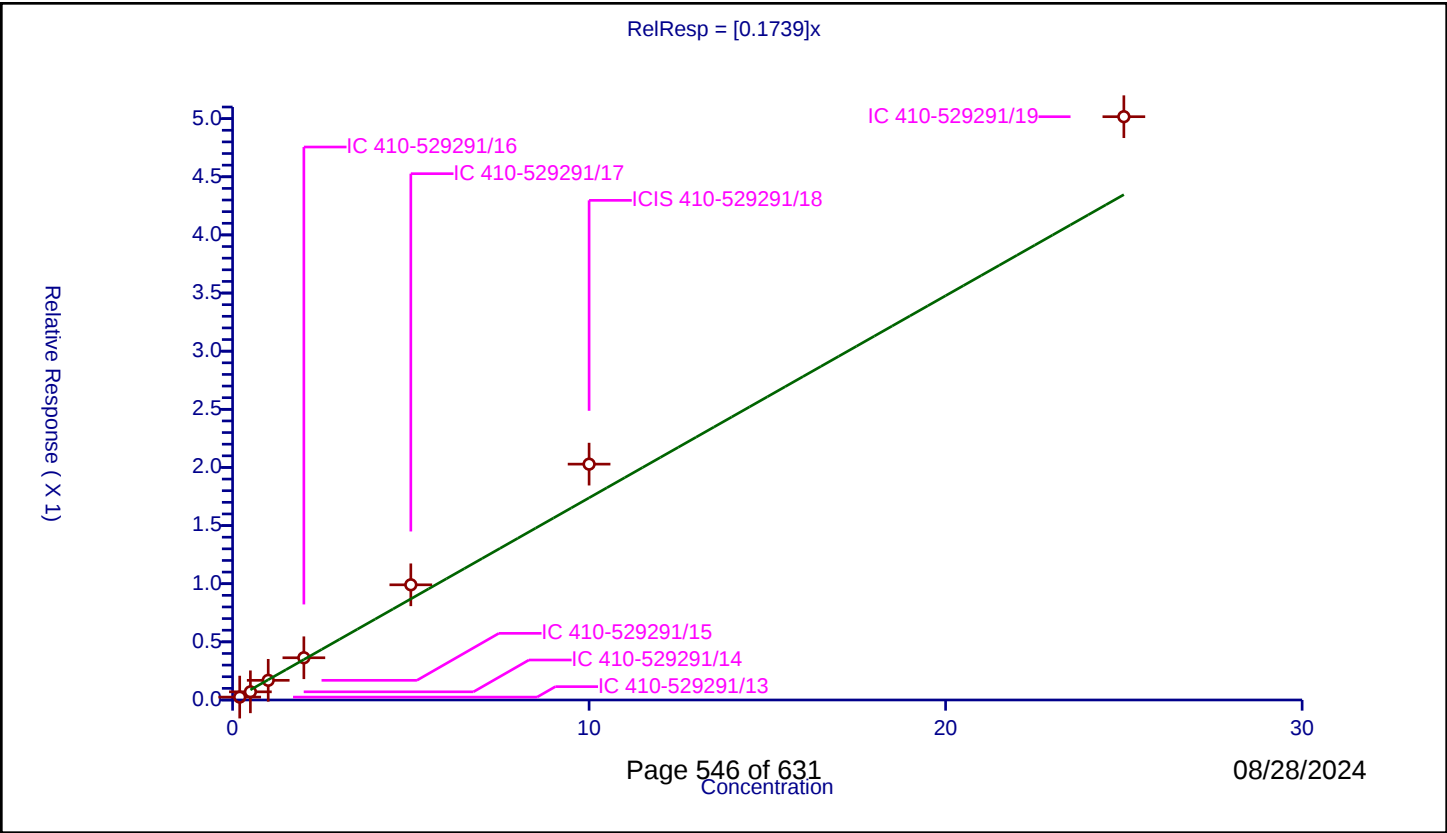
/ Benzyl chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1739
Error Coefficients	

Relative Standard Deviation: 17.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.024773	10.0	859400.0	0.123865	Y
2	IC 410-529291/14	0.5	0.070331	10.0	858934.0	0.140663	Y
3	IC 410-529291/15	1.0	0.169188	10.0	872460.0	0.169188	Y
4	IC 410-529291/16	2.0	0.363223	10.0	872633.0	0.181611	Y
5	IC 410-529291/17	5.0	0.990769	10.0	910535.0	0.198154	Y
6	ICIS 410-529291/18	10.0	2.028459	10.0	922380.0	0.202846	Y
7	IC 410-529291/19	25.0	5.016761	10.0	959394.0	0.20067	Y



Calibration

/ n-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

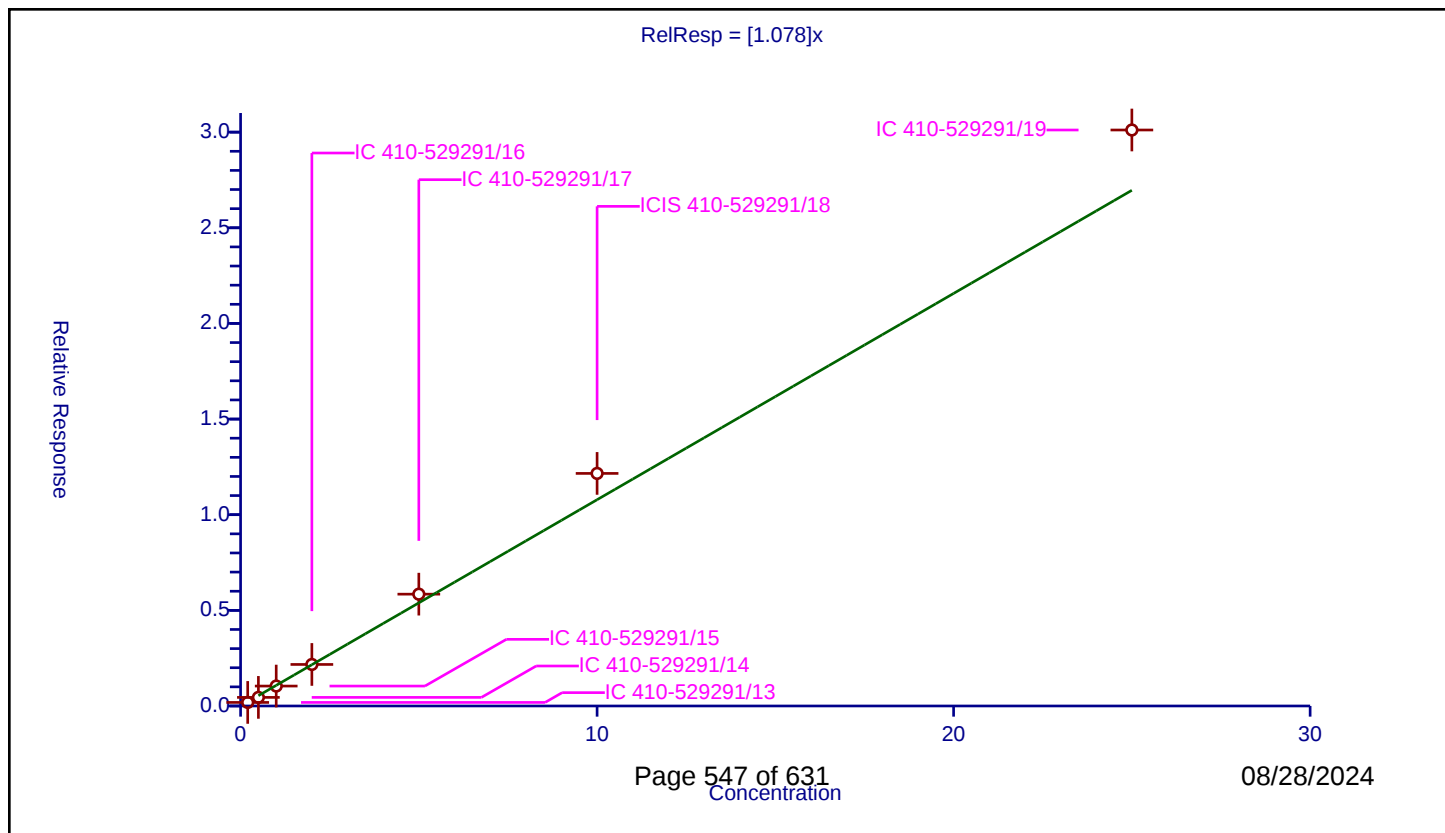
Curve Coefficients

Intercept: 0
 Slope: 1.078

Error Coefficients

Relative Standard Deviation: 11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.186514	10.0	859400.0	0.932569	Y
2	IC 410-529291/14	0.5	0.449522	10.0	858934.0	0.899045	Y
3	IC 410-529291/15	1.0	1.041927	10.0	872460.0	1.041927	Y
4	IC 410-529291/16	2.0	2.170901	10.0	872633.0	1.085451	Y
5	IC 410-529291/17	5.0	5.845926	10.0	910535.0	1.169185	Y
6	ICIS 410-529291/18	10.0	12.159186	10.0	922380.0	1.215919	Y
7	IC 410-529291/19	25.0	30.112342	10.0	959394.0	1.204494	Y



Calibration

/ 1,2-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

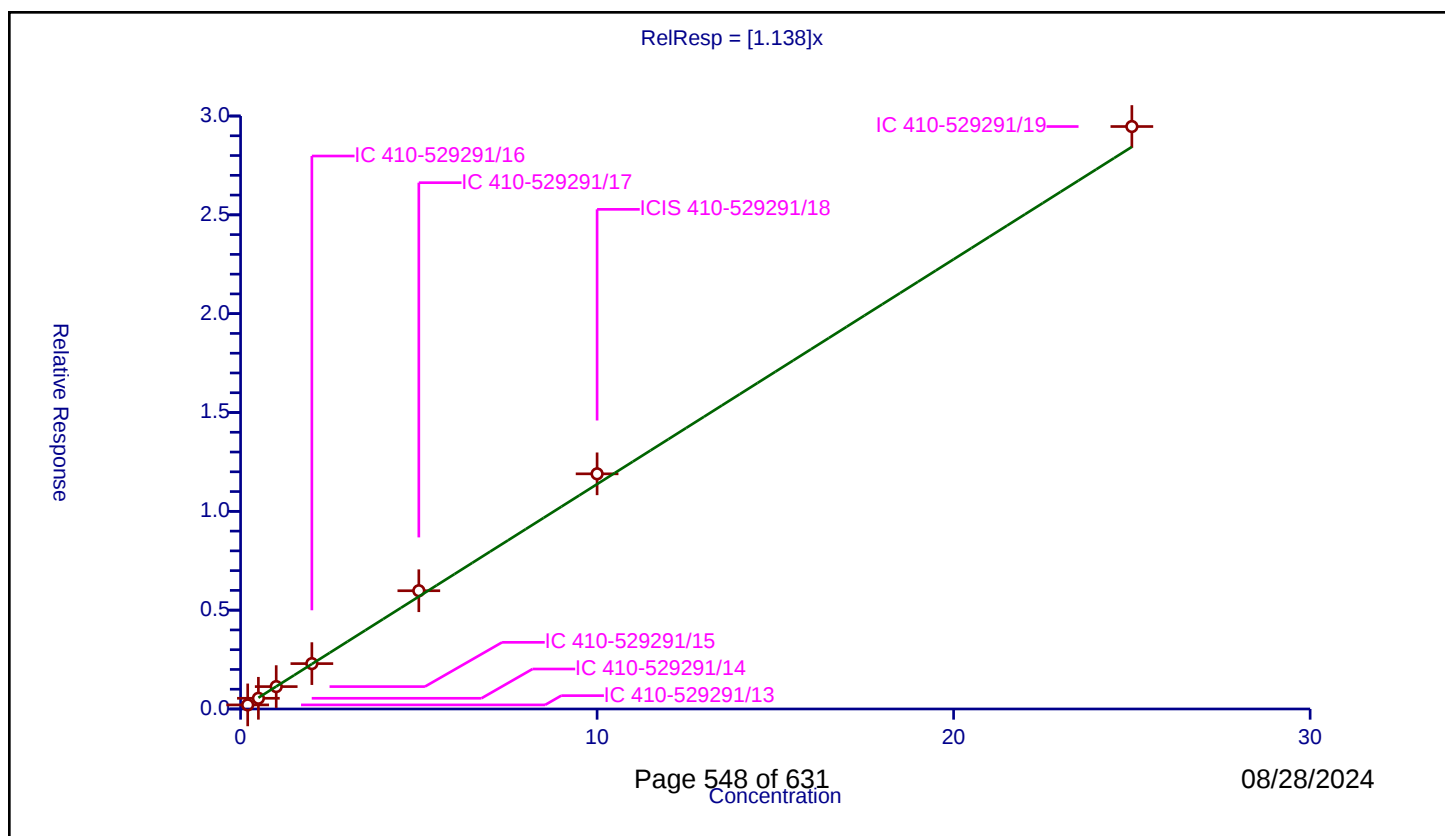
Curve Coefficients

Intercept: 0
Slope: 1.138

Error Coefficients

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.2069	10.0	859400.0	1.034501	Y
2	IC 410-529291/14	0.5	0.541101	10.0	858934.0	1.082202	Y
3	IC 410-529291/15	1.0	1.133175	10.0	872460.0	1.133175	Y
4	IC 410-529291/16	2.0	2.295581	10.0	872633.0	1.147791	Y
5	IC 410-529291/17	5.0	5.982571	10.0	910535.0	1.196514	Y
6	ICIS 410-529291/18	10.0	11.897016	10.0	922380.0	1.189702	Y
7	IC 410-529291/19	25.0	29.4688	10.0	959394.0	1.178752	Y



Calibration

/ 1,2-Dibromo-3-Chloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

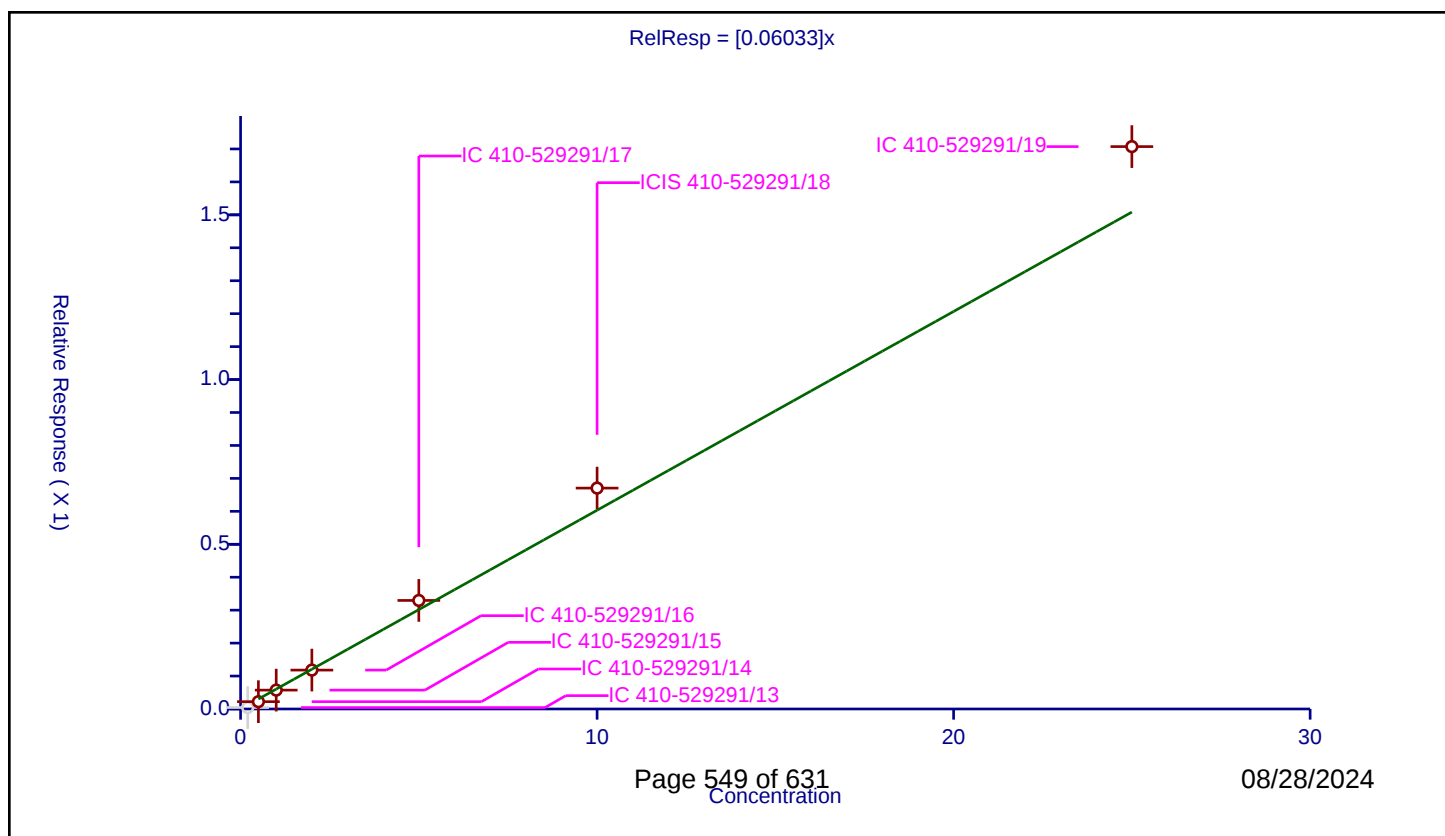
Curve Coefficients

Intercept: 0
Slope: 0.06033

Error Coefficients

Relative Standard Deviation: 14.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.004398	10.0	859400.0	0.021992	N
2	IC 410-529291/14	0.5	0.022214	10.0	858934.0	0.044427	Y
3	IC 410-529291/15	1.0	0.057286	10.0	872460.0	0.057286	Y
4	IC 410-529291/16	2.0	0.118091	10.0	872633.0	0.059045	Y
5	IC 410-529291/17	5.0	0.329521	10.0	910535.0	0.065904	Y
6	ICIS 410-529291/18	10.0	0.670559	10.0	922380.0	0.067056	Y
7	IC 410-529291/19	25.0	1.70714	10.0	959394.0	0.068286	Y



Calibration

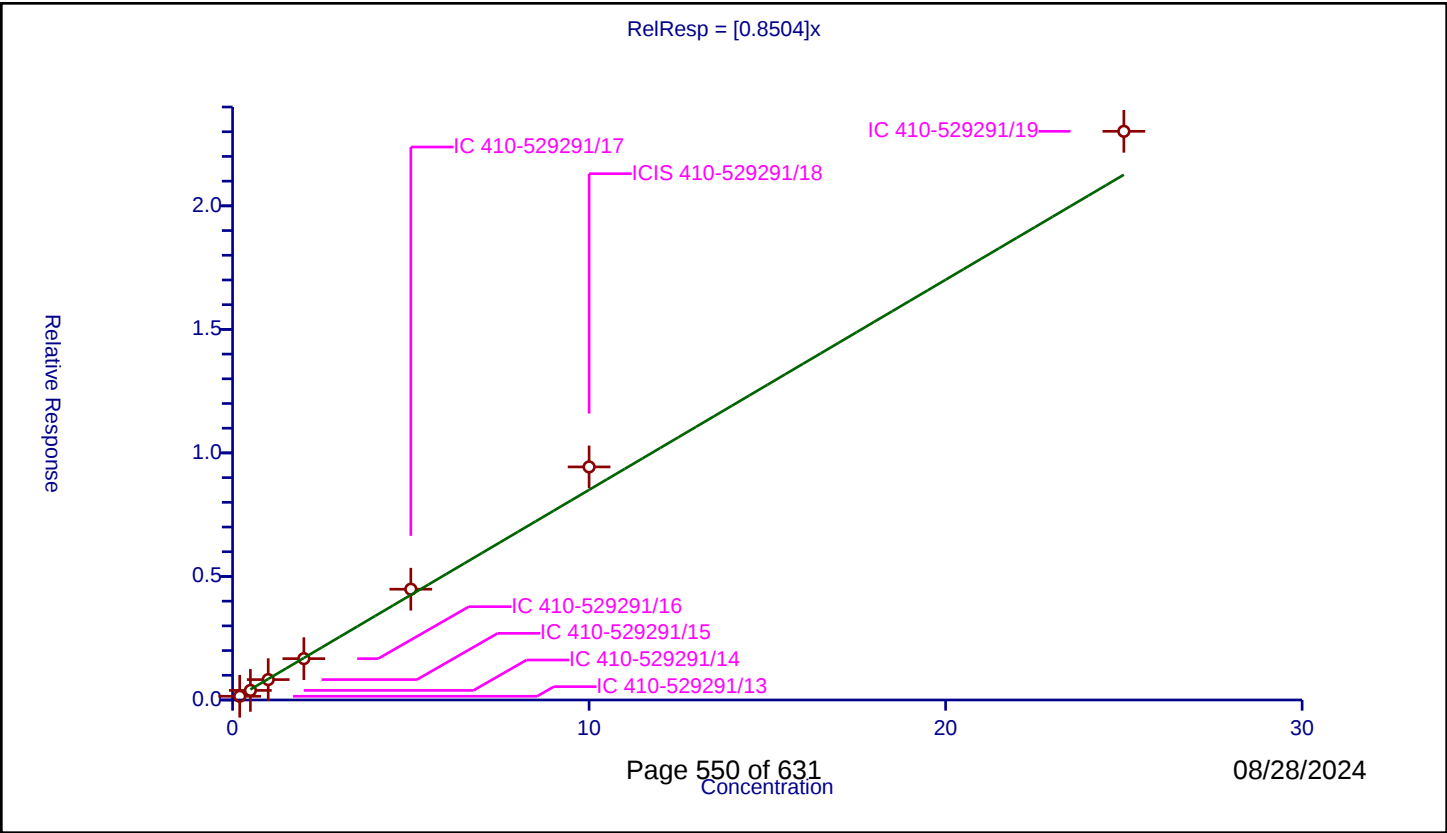
/ 1,3,5-Trichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8504
Error Coefficients	

Relative Standard Deviation: 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.150931	10.0	859400.0	0.754654	Y
2	IC 410-529291/14	0.5	0.387504	10.0	858934.0	0.775007	Y
3	IC 410-529291/15	1.0	0.825344	10.0	872460.0	0.825344	Y
4	IC 410-529291/16	2.0	1.673728	10.0	872633.0	0.836864	Y
5	IC 410-529291/17	5.0	4.484133	10.0	910535.0	0.896827	Y
6	ICIS 410-529291/18	10.0	9.433986	10.0	922380.0	0.943399	Y
7	IC 410-529291/19	25.0	23.016884	10.0	959394.0	0.920675	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

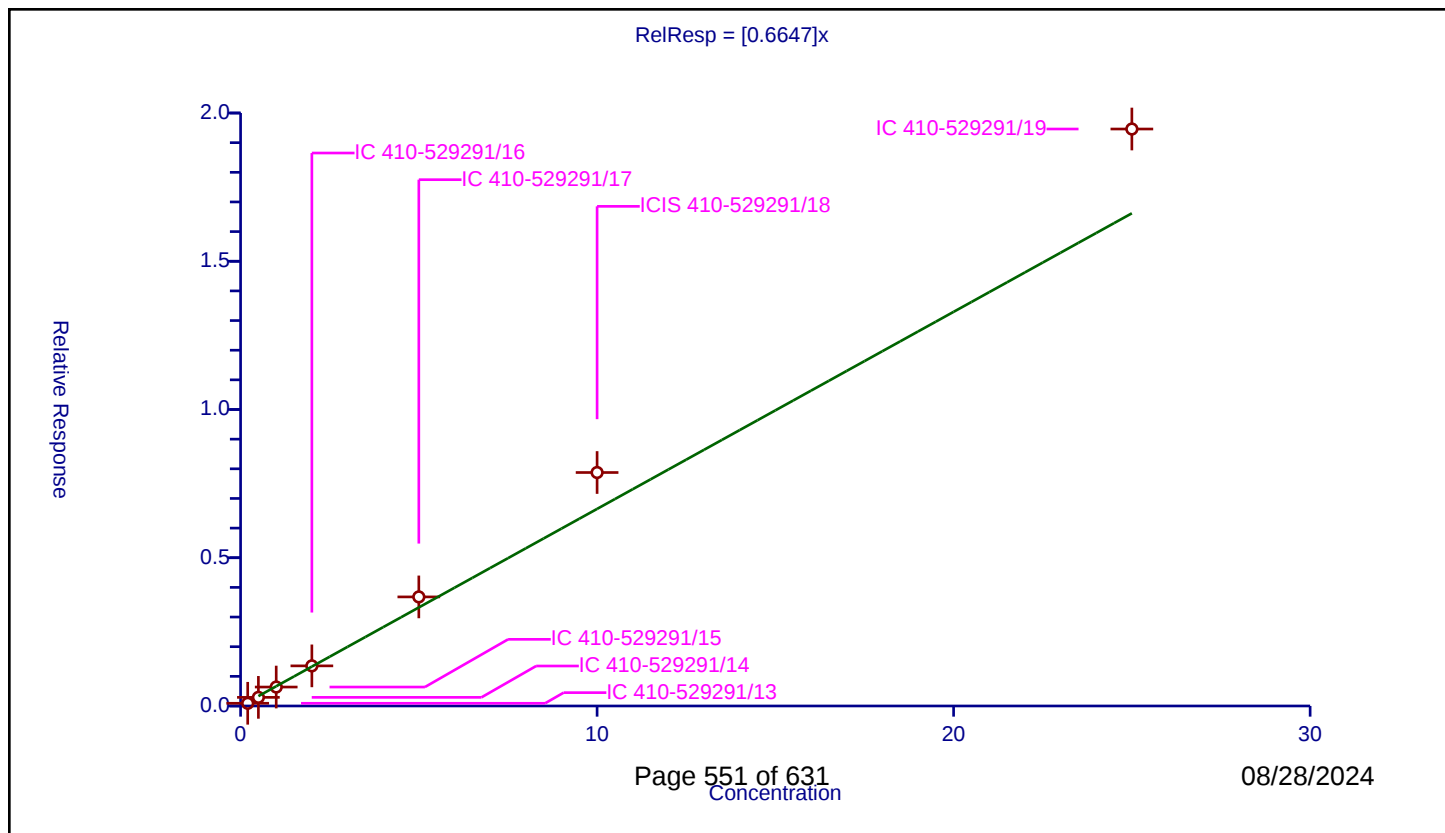
Curve Coefficients

Intercept: 0
 Slope: 0.6647

Error Coefficients

Relative Standard Deviation: 17.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.090854	10.0	859400.0	0.45427	Y
2	IC 410-529291/14	0.5	0.290779	10.0	858934.0	0.581558	Y
3	IC 410-529291/15	1.0	0.638791	10.0	872460.0	0.638791	Y
4	IC 410-529291/16	2.0	1.353169	10.0	872633.0	0.676585	Y
5	IC 410-529291/17	5.0	3.678793	10.0	910535.0	0.735759	Y
6	ICIS 410-529291/18	10.0	7.87477	10.0	922380.0	0.787477	Y
7	IC 410-529291/19	25.0	19.460243	10.0	959394.0	0.77841	Y



Calibration

/ Hexachlorobutadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

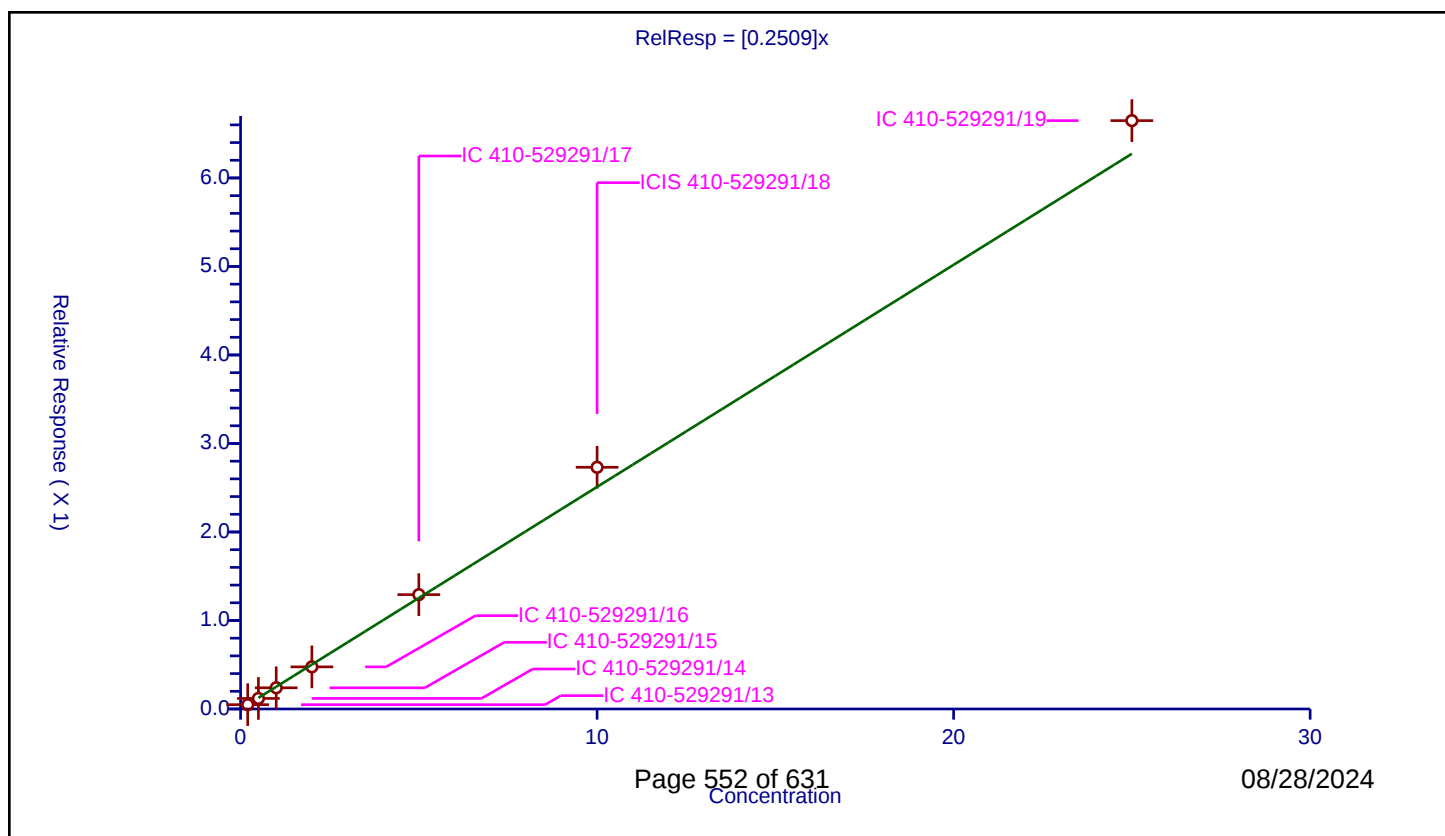
Curve Coefficients

Intercept: 0
Slope: 0.2509

Error Coefficients

Relative Standard Deviation: 5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.048592	10.0	859400.0	0.24296	Y
2	IC 410-529291/14	0.5	0.119311	10.0	858934.0	0.238621	Y
3	IC 410-529291/15	1.0	0.239507	10.0	872460.0	0.239507	Y
4	IC 410-529291/16	2.0	0.476008	10.0	872633.0	0.238004	Y
5	IC 410-529291/17	5.0	1.292108	10.0	910535.0	0.258422	Y
6	ICIS 410-529291/18	10.0	2.730838	10.0	922380.0	0.273084	Y
7	IC 410-529291/19	25.0	6.647821	10.0	959394.0	0.265913	Y

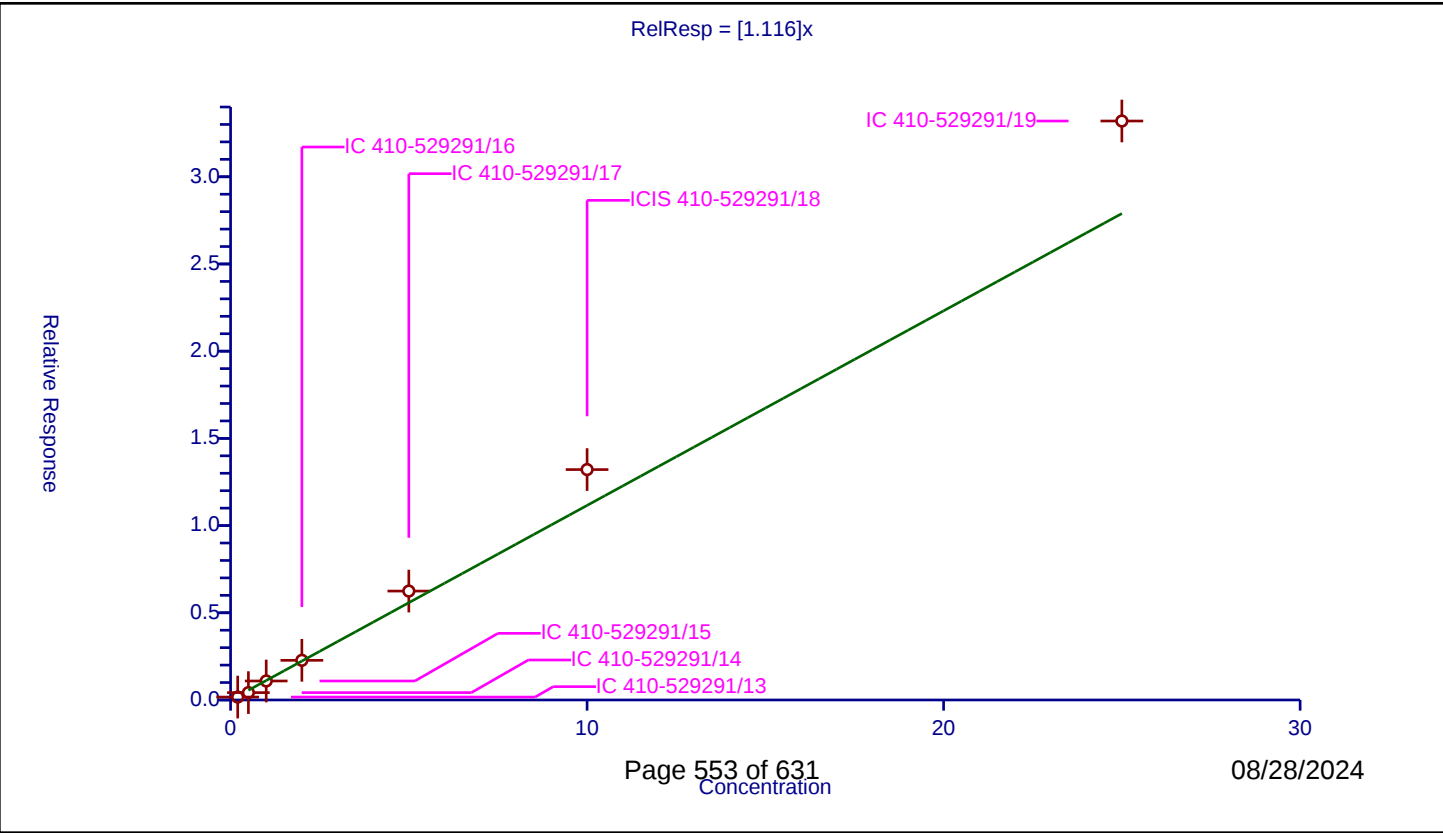


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.116

Error Coefficients	
Relative Standard Deviation:	18.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.167687	10.0	859400.0	0.838434	Y
2	IC 410-529291/14	0.5	0.422989	10.0	858934.0	0.845979	Y
3	IC 410-529291/15	1.0	1.089907	10.0	872460.0	1.089907	Y
4	IC 410-529291/16	2.0	2.274794	10.0	872633.0	1.137397	Y
5	IC 410-529291/17	5.0	6.244988	10.0	910535.0	1.248998	Y
6	ICIS 410-529291/18	10.0	13.211908	10.0	922380.0	1.321191	Y
7	IC 410-529291/19	25.0	33.197821	10.0	959394.0	1.327913	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

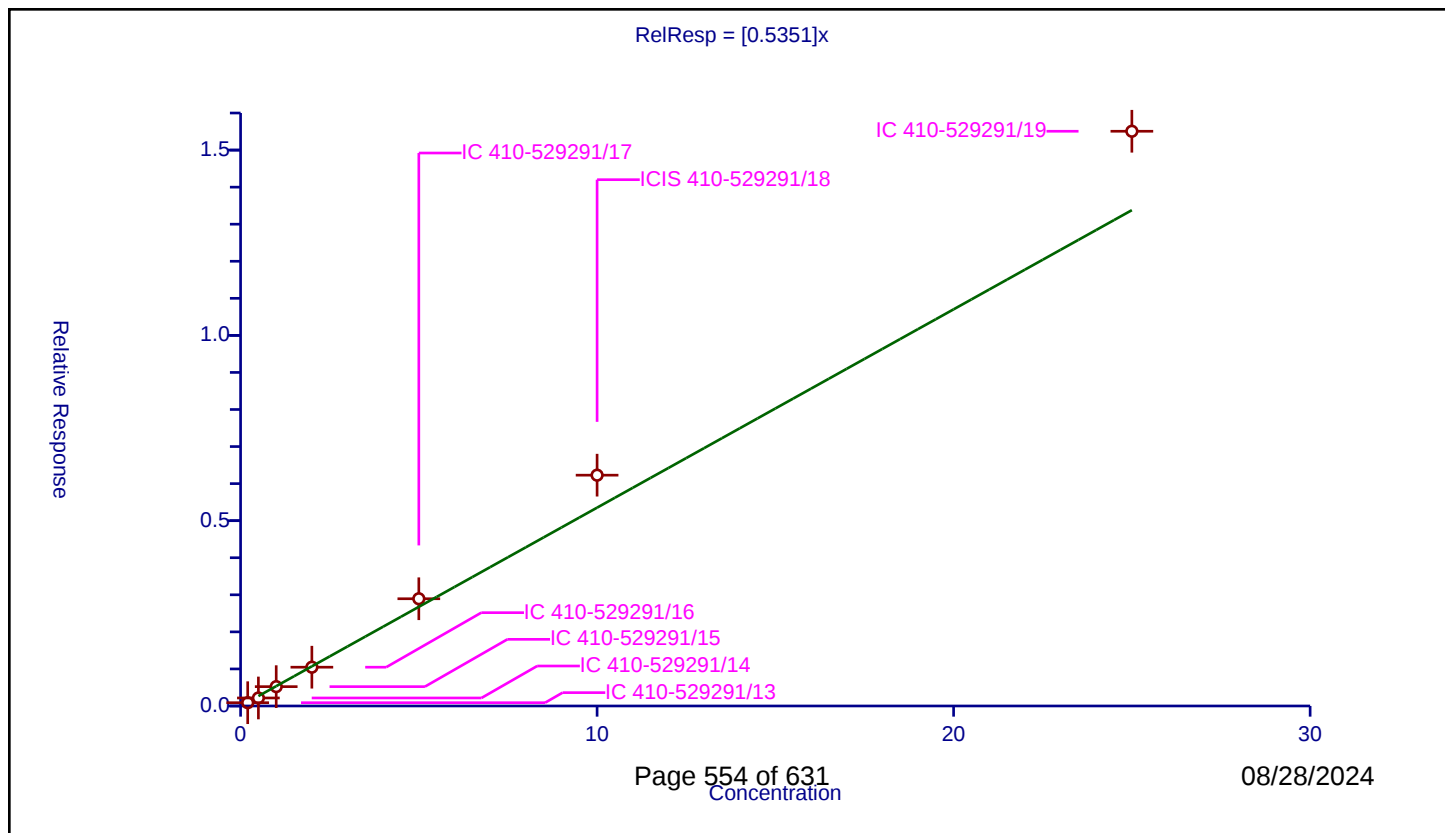
Curve Coefficients

Intercept: 0
Slope: 0.5351

Error Coefficients

Relative Standard Deviation: 14.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-529291/13	0.2	0.089109	10.0	859400.0	0.445543	Y
2	IC 410-529291/14	0.5	0.216559	10.0	858934.0	0.433118	Y
3	IC 410-529291/15	1.0	0.522282	10.0	872460.0	0.522282	Y
4	IC 410-529291/16	2.0	1.046385	10.0	872633.0	0.523192	Y
5	IC 410-529291/17	5.0	2.893837	10.0	910535.0	0.578767	Y
6	ICIS 410-529291/18	10.0	6.228106	10.0	922380.0	0.622811	Y
7	IC 410-529291/19	25.0	15.508154	10.0	959394.0	0.620326	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.: _____

Lab Sample ID: ICV 410-529291/21

Calibration Date: 07/17/2024 20:16

Instrument ID: 19094

Calib Start Date: 07/17/2024 17:30

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

Calib End Date: 07/17/2024 19:35

Lab File ID: HL17X20.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	0.2545	0.2280	0.1000	4.48	5.00	-10.4	30.0
Chloromethane	Ave	0.3177	0.3082	0.1000	4.85	5.00	-3.0	30.0
1,3-Butadiene	Ave	0.2719	0.2414		4.44	5.00	-11.2	30.0
Vinyl chloride	Ave	0.2912	0.2998	0.1000	5.15	5.00	3.0	30.0
Bromomethane	Ave	0.2040	0.2077	0.1000	5.09	5.00	1.8	30.0
Chloroethane	Ave	0.1706	0.1797	0.1000	5.27	5.00	5.3	30.0
Dichlorofluoromethane	Ave	0.4692	0.4298		4.58	5.00	-8.4	30.0
Trichlorofluoromethane	Ave	0.3505	0.3448	0.1000	4.92	5.00	-1.6	30.0
Ethyl ether	Ave	0.1321	0.1572		5.93	4.98	19.0	30.0
Freon 123a	Ave	0.2604	0.2717		5.22	5.00	4.3	30.0
Acrolein	Ave	2.126	2.359		41.7	37.6	10.9	30.0
1,1-Dichloroethene	Ave	0.1805	0.2201	0.1000	6.10	5.00	21.9	30.0
Acetone	Ave	2.661	2.729	0.1000	64.1	62.5	2.5	30.0
Freon 113	Ave	0.1775	0.1856	0.1000	5.23	5.00	4.6	30.0
Methyl iodide	Ave	0.3583	0.3946		5.51	5.00	10.1	30.0
Ethyl bromide	Ave	0.1605	0.1590		4.67	4.72	-0.9	30.0
Carbon disulfide	Ave	0.5143	0.5812	0.1000	5.65	5.00	13.0	30.0
Methyl acetate	Ave	7.210	7.923	0.1000	5.49	5.00	9.9	30.0
Allyl chloride	Ave	0.3140	0.3339		5.32	5.00	6.3	30.0
Methylene Chloride	Ave	0.2248	0.2328	0.1000	5.18	5.00	3.6	30.0
t-Butyl alcohol	Ave	0.7313	0.8938		61.1	50.0	22.2	30.0
Acrylonitrile	Ave	3.604	4.108		28.5	25.0	14.0	30.0
Methyl tert-butyl ether	Ave	0.4958	0.5091	0.1000	5.13	5.00	2.7	30.0
trans-1,2-Dichloroethene	Ave	0.2110	0.2404	0.1000	5.70	5.00	13.9	30.0
n-Hexane	Ave	0.2490	0.2788		5.60	5.00	11.9	30.0
1,1-Dichloroethane	Ave	0.4033	0.4514	0.2000	5.60	5.00	11.9	30.0
di-Isopropyl ether	Ave	0.6652	0.6995		5.26	5.00	5.2	30.0
2-Chloro-1,3-butadiene	Ave	0.3187	0.3491		5.48	5.00	9.5	30.0
Ethyl t-butyl ether	Ave	0.6184	0.6643		5.37	5.00	7.4	30.0
2-Butanone (MEK)	Ave	4.394	5.121	0.1000	72.8	62.5	16.5	30.0
cis-1,2-Dichloroethene	Ave	0.2403	0.2670	0.1000	5.55	5.00	11.1	30.0
2,2-Dichloropropane	Ave	0.3347	0.3615		5.40	5.00	8.0	30.0
Propionitrile	Linl		1.359		41.2	37.5	10.0	30.0
Methacrylonitrile	Ave	5.033	5.688		42.4	37.5	13.0	30.0
Bromochloromethane	Ave	0.1015	0.1097		5.40	5.00	8.0	30.0
Tetrahydrofuran	Ave	1.293	1.505		29.1	25.0	16.4	30.0
Chloroform	Ave	0.4003	0.4327	0.2000	5.40	5.00	8.1	30.0
1,1,1-Trichloroethane	Ave	0.3414	0.3852	0.1000	5.64	5.00	12.9	30.0
Cyclohexane	Ave	0.3381	0.3660	0.1000	5.41	5.00	8.2	30.0
1,1-Dichloropropene	Ave	0.3038	0.3398		5.59	5.00	11.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

Lab Sample ID: ICV 410-529291/21

Calibration Date: 07/17/2024 20:16

Instrument ID: 19094

Calib Start Date: 07/17/2024 17:30

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

Calib End Date: 07/17/2024 19:35

Lab File ID: HL17X20.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	0.2975	0.3364	0.1000	5.66	5.00	13.1	30.0
Isobutyl alcohol	Ave	0.2352	0.2413		128	125	2.6	30.0
Benzene	Ave	0.9210	1.017	0.5000	5.52	5.00	10.4	30.0
1,2-Dichloroethane	Ave	0.2421	0.2542	0.1000	5.25	5.00	5.0	30.0
t-Amyl methyl ether	Ave	0.5458	0.5757		5.27	5.00	5.5	30.0
n-Heptane	Ave	0.2544	0.2653		5.21	5.00	4.3	30.0
n-Butanol	Lin		0.2062		273	250	9.4	30.0
Trichloroethene	Ave	0.2426	0.2643	0.2000	5.45	5.00	9.0	30.0
Methylcyclohexane	Ave	0.3437	0.3762	0.1000	5.47	5.00	9.5	30.0
1,2-Dichloropropane	Ave	0.2327	0.2525	0.1000	5.43	5.00	8.5	30.0
Methyl methacrylate	Ave	9.456	10.32		5.46	5.00	9.2	30.0
1,4-Dioxane	Qua		0.0843	0.0050	252	125	101.7*	30.0
Dibromomethane	Ave	0.1082	0.1128		5.22	5.00	4.3	30.0
Bromodichloromethane	Ave	0.2813	0.3026	0.2000	5.38	5.00	7.6	30.0
2-Nitropropane	Ave	3.095	2.996		4.84	5.00	-3.2	30.0
1-Bromo-2-chloroethane	Ave	0.2047	0.2489		6.08	5.00	21.6	30.0
cis-1,3-Dichloropropene	Ave	0.3425	0.3547	0.2000	5.18	5.00	3.5	30.0
4-Methyl-2-pentanone (MIBK)	Ave	12.29	13.77	0.1000	70.1	62.5	12.1	30.0
Toluene	Ave	0.7905	0.8513	0.4000	5.38	5.00	7.7	30.0
trans-1,3-Dichloropropene	Ave	0.3687	0.3977	0.1000	5.39	5.00	7.9	30.0
Ethyl methacrylate	Ave	0.2666	0.2915		5.47	5.00	9.4	30.0
1,1,2-Trichloroethane	Ave	0.2102	0.2187	0.1000	5.20	5.00	4.0	30.0
Tetrachloroethene	Ave	0.3673	0.4052	0.2000	5.52	5.00	10.3	30.0
1,3-Dichloropropane	Ave	0.3572	0.3804		5.33	5.00	6.5	30.0
2-Hexanone	Ave	8.125	9.290	0.1000	71.5	62.5	14.3	30.0
Dibromochloromethane	Ave	0.2595	0.2786		5.37	5.00	7.4	30.0
1,2-Dibromoethane (EDB)	Ave	0.1953	0.2065	0.1000	5.29	5.00	5.7	30.0
1-Chlorohexane	Ave	0.4410	0.4430		5.02	5.00	0.5	30.0
Chlorobenzene	Ave	0.8684	0.9323	0.5000	5.37	5.00	7.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3036	0.3269		5.38	5.00	7.7	30.0
Ethylbenzene	Ave	1.534	1.680	0.1000	5.48	5.00	9.6	30.0
m&p-Xylene	Ave	0.5824	0.6390	0.1000	11.0	10.0	9.7	30.0
o-Xylene	Ave	0.5747	0.6142	0.3000	5.34	5.00	6.9	30.0
Styrene	Ave	0.8908	1.003	0.3000	5.63	5.00	12.6	30.0
Bromoform	Ave	0.1629	0.1728	0.1000	5.30	5.00	6.1	30.0
Isopropylbenzene	Ave	1.386	1.646	0.1000	5.94	5.00	18.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.4525	0.4710	0.3000	5.20	5.00	4.1	30.0
Bromobenzene	Ave	0.6586	0.6961		5.28	5.00	5.7	30.0
trans-1,4-Dichloro-2-butene	Ave	4.924	5.441		27.6	25.0	10.5	30.0
1,2,3-Trichloropropane	Ave	0.1171	0.1256		5.36	5.00	7.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

Lab Sample ID: ICV 410-529291/21

Calibration Date: 07/17/2024 20:16

Instrument ID: 19094

Calib Start Date: 07/17/2024 17:30

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

Calib End Date: 07/17/2024 19:35

Lab File ID: HL17X20.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	3.148	3.523		5.60	5.00	11.9	30.0
2-Chlorotoluene	Ave	0.6448	0.6981		5.41	5.00	8.3	30.0
1,3,5-Trimethylbenzene	Ave	2.214	2.400		5.42	5.00	8.4	30.0
4-Chlorotoluene	Ave	0.6526	0.7210		5.52	5.00	10.5	30.0
tert-Butylbenzene	Ave	0.4949	0.5688		5.75	5.00	14.9	30.0
Pentachloroethane	Ave	0.3446	0.4339		6.30	5.00	25.9	30.0
1,2,4-Trimethylbenzene	Ave	2.215	2.432		5.49	5.00	9.8	30.0
sec-Butylbenzene	Ave	2.733	3.018		5.52	5.00	10.4	30.0
1,3-Dichlorobenzene	Ave	1.244	1.344	0.6000	5.40	5.00	8.0	30.0
p-Isopropyltoluene	Ave	2.359	2.581		5.47	5.00	9.4	30.0
1,4-Dichlorobenzene	Ave	1.286	1.366	0.5000	5.31	5.00	6.2	30.0
1,2,3-Trimethylbenzene	Ave	1.003	1.029		5.13	5.00	2.6	30.0
Benzyl chloride	Ave	0.1739	0.1863		5.36	5.00	7.2	30.0
n-Butylbenzene	Ave	1.078	1.219		5.65	5.00	13.1	30.0
1,2-Dichlorobenzene	Ave	1.138	1.228	0.4000	5.40	5.00	7.9	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0603	0.0634	0.0500	5.25	5.00	5.0	30.0
1,3,5-Trichlorobenzene	Ave	0.8504	0.9662		5.68	5.00	13.6	30.0
1,2,4-Trichlorobenzene	Ave	0.6647	0.7675	0.2000	5.77	5.00	15.5	30.0
Hexachlorobutadiene	Ave	0.2509	0.3011		6.00	5.00	20.0	30.0
Naphthalene	Ave	1.116	1.257		5.63	5.00	12.7	30.0
1,2,3-Trichlorobenzene	Ave	0.5351	0.5973		5.58	5.00	11.6	30.0
Dibromofluoromethane (Surr)	Ave	0.2449	0.2415		9.86	10.0	-1.4	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0500	0.0485		9.70	10.0	-3.0	30.0
Toluene-d8 (Surr)	Ave	1.301	1.308		10.1	10.0	0.6	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4856	0.4843		9.97	10.0	-0.3	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X20.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 17-Jul-2024 20:16:30 ALS Bottle#: 20 Worklist Smp#: 21
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0119602-021
 Misc. Info.: ICV
 Operator ID: knk41612 Instrument ID: 19094
 Sublist:
 Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 18-Jul-2024 22:28:28 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1666

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.873	1.879	-0.006	99	247428	5.00	4.48	
5 Chloromethane	50	2.069	2.074	-0.005	99	334559	5.00	4.85	
7 Butadiene	39	2.160	2.166	-0.006	91	262060	5.00	4.44	
6 Vinyl chloride	62	2.172	2.178	-0.006	98	325441	5.00	5.15	
9 Bromomethane	94	2.501	2.513	-0.012	92	225462	5.00	5.09	
10 Chloroethane	64	2.544	2.550	-0.006	100	195011	5.00	5.27	
11 Dichlorofluoromethane	67	2.757	2.769	-0.012	97	466495	5.00	4.58	
12 Trichlorofluoromethane	101	2.867	2.867	0.000	96	374230	5.00	4.92	
14 Ethyl ether	59	3.056	3.056	0.000	91	170150	4.98	5.93	
15 1,2-Dichloro-1,1,2-trifluoroethane	67	3.135	3.135	0.000	93	294880	5.00	5.22	
16 Acrolein	56	3.221	3.215	0.007	100	184971	37.6	41.7	
17 1,1-Dichloroethene	96	3.343	3.349	-0.006	98	238852	5.00	6.10	
19 Acetone	43	3.367	3.367	0.000	100	355957	62.5	64.1	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.379	3.391	-0.012	90	201467	5.00	5.23	
21 Iodomethane	142	3.526	3.532	-0.006	98	428350	5.00	5.51	
22 Ethyl bromide	108	3.556	3.556	0.000	98	162789	4.72	4.67	
23 Carbon disulfide	76	3.635	3.635	0.000	99	630866	5.00	5.65	
24 Methyl acetate	43	3.769	3.769	0.000	25	82687	5.00	5.49	M
26 3-Chloro-1-propene	41	3.788	3.788	0.000	91	362437	5.00	5.32	
27 Methylene Chloride	84	3.958	3.964	-0.006	91	252673	5.00	5.18	
* 28 t-Butyl alcohol-d10 (IS)	65	3.958	3.970	-0.012	97	104362	50.0	50.0	
29 2-Methyl-2-propanol	59	4.074	4.080	-0.006	97	93276	50.0	61.1	
31 Acrylonitrile	53	4.275	4.281	-0.006	99	214339	25.0	28.5	
32 Methyl tert-butyl ether	73	4.342	4.348	-0.006	95	552550	5.00	5.13	
33 trans-1,2-Dichloroethene	96	4.355	4.361	-0.006	99	260969	5.00	5.70	
34 Hexane	57	4.781	4.787	-0.006	92	302615	5.00	5.60	
36 1,1-Dichloroethane	63	5.007	5.013	-0.006	96	490017	5.00	5.60	
37 Isopropyl ether	45	5.074	5.074	0.000	94	759222	5.00	5.26	
38 2-Chloro-1,3-butadiene	53	5.123	5.129	-0.006	91	378897	5.00	5.48	
40 Tert-butyl ethyl ether	59	5.611	5.616	-0.006	98	721075	5.00	5.37	
41 2-Butanone (MEK)	43	5.824	5.824	0.000	99	668055	62.5	72.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 cis-1,2-Dichloroethene	96	5.848	5.854	-0.006	83	289767	5.00	5.55	
43 2,2-Dichloropropane	77	5.860	5.866	-0.006	87	392402	5.00	5.40	
44 Propionitrile	54	5.915	5.903	0.012	97	106369	37.5	41.2	
47 Methacrylonitrile	67	6.123	6.122	0.001	92	445191	37.5	42.4	
48 Chlorobromomethane	128	6.190	6.190	0.000	95	119082	5.00	5.40	
49 Tetrahydrofuran	71	6.208	6.208	0.000	78	78527	25.0	29.1	
50 Chloroform	83	6.342	6.342	0.000	93	469613	5.00	5.40	
\$ 52 Dibromofluoromethane (Surr)	113	6.555	6.561	-0.006	94	524164	10.0	9.86	
53 1,1,1-Trichloroethane	97	6.568	6.574	-0.006	98	418147	5.00	5.64	
54 Cyclohexane	56	6.677	6.677	0.000	90	397235	5.00	5.41	
56 Carbon tetrachloride	117	6.787	6.787	0.000	95	365183	5.00	5.66	
55 1,1-Dichloropropene	75	6.787	6.793	-0.006	96	368849	5.00	5.59	
57 Isobutyl alcohol	41	6.946	6.945	0.001	95	62958	125.0	128.2	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.025	-0.006	89	105345	10.0	9.70	
59 Benzene	78	7.055	7.055	0.000	96	1103742	5.00	5.52	
60 1,2-Dichloroethane	62	7.122	7.128	-0.006	98	275911	5.00	5.25	
63 Tert-amyl methyl ether	73	7.250	7.256	-0.006	99	624868	5.00	5.27	
* 64 Fluorobenzene (IS)	96	7.464	7.470	-0.006	98	2170862	10.0	10.0	
65 n-Heptane	43	7.482	7.482	0.000	92	287985	5.00	5.21	
67 n-Butanol	56	7.854	7.848	0.006	88	107609	250.0	273.5	
68 Trichloroethene	95	7.952	7.957	-0.005	98	286890	5.00	5.45	
69 Methylcyclohexane	83	8.262	8.268	-0.006	93	408391	5.00	5.47	
70 1,2-Dichloropropane	63	8.287	8.287	0.000	87	274066	5.00	5.43	
71 2-ethoxy-2-methyl butane	87	8.299	8.305	-0.006	92	378090	5.00	5.10	
72 Methyl methacrylate	69	8.384	8.378	0.006	89	107715	5.00	5.46	
73 1,4-Dioxane	88	8.390	8.390	0.000	32	22000	125.0	252.1	
74 Dibromomethane	93	8.397	8.403	-0.006	96	122461	5.00	5.22	
76 Dichlorobromomethane	83	8.634	8.634	0.000	100	328454	5.00	5.38	
77 2-Nitropropane	41	8.909	8.902	0.007	97	31271	5.00	4.84	
79 1-Bromo-2-chloroethane	63	9.037	9.037	0.000	98	270157	5.00	6.08	
80 cis-1,3-Dichloropropene	75	9.201	9.201	0.000	96	384965	5.00	5.18	
82 4-Methyl-2-pentanone (MIBK)	43	9.378	9.384	-0.006	97	1796939	62.5	70.1	
\$ 83 Toluene-d8 (Surr)	98	9.524	9.524	0.000	93	2125217	10.0	10.1	
84 Toluene	92	9.604	9.604	0.000	98	691767	5.00	5.38	
85 trans-1,3-Dichloropropene	75	9.872	9.872	0.000	93	323184	5.00	5.39	
104 Ethyl methacrylate	69	9.945	9.945	0.000	89	236879	5.00	5.47	
106 1,1,2-Trichloroethane	97	10.085	10.085	0.000	90	177678	5.00	5.20	
107 Tetrachloroethene	166	10.177	10.177	0.000	98	329279	5.00	5.52	
108 1,3-Dichloropropane	76	10.250	10.250	0.000	90	309110	5.00	5.33	
109 2-Hexanone	43	10.305	10.305	0.000	96	1211959	62.5	71.5	
111 Chlorodibromomethane	129	10.469	10.469	0.000	90	226410	5.00	5.37	
112 Ethylene Dibromide	107	10.585	10.585	0.000	99	167801	5.00	5.29	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	85	1625126	10.0	10.0	
114 1-Chlorohexane	91	11.036	11.036	0.000	97	359976	5.00	5.02	
115 Chlorobenzene	112	11.048	11.054	-0.006	95	757528	5.00	5.37	
116 1,1,1,2-Tetrachloroethane	131	11.134	11.134	0.000	96	265657	5.00	5.38	
117 Ethylbenzene	91	11.140	11.140	0.000	99	1365194	5.00	5.48	
119 m-Xylene & p-Xylene	106	11.256	11.262	-0.006	100	1038534	10.0	11.0	
120 o-Xylene	106	11.591	11.591	0.000	97	499042	5.00	5.34	
121 Styrene	104	11.609	11.609	0.000	95	815188	5.00	5.63	
122 Bromoform	173	11.768	11.768	0.000	97	140412	5.00	5.30	
123 Isopropylbenzene	105	11.896	11.896	0.000	96	1337832	5.00	5.94	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	92	787109	10.0	9.97	
127 1,1,2,2-Tetrachloroethane	83	12.146	12.146	0.000	93	214591	5.00	5.20	
128 Bromobenzene	156	12.158	12.158	0.000	97	317146	5.00	5.28	
129 trans-1,4-Dichloro-2-butene	53	12.170	12.170	0.000	94	283902	25.0	27.6	
130 1,2,3-Trichloropropane	110	12.188	12.188	0.000	81	57237	5.00	5.36	
131 N-Propylbenzene	91	12.231	12.231	0.000	99	1605123	5.00	5.60	
132 2-Chlorotoluene	126	12.304	12.304	0.000	97	318036	5.00	5.41	
133 1,3,5-Trimethylbenzene	105	12.365	12.365	0.000	94	1093344	5.00	5.42	
134 4-Chlorotoluene	126	12.402	12.396	0.006	97	328506	5.00	5.52	
135 tert-Butylbenzene	134	12.609	12.609	0.000	93	259151	5.00	5.75	
136 Pentachloroethane	167	12.640	12.640	0.000	92	197682	5.00	6.30	
137 1,2,4-Trimethylbenzene	105	12.652	12.652	0.000	97	1108046	5.00	5.49	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	1375221	5.00	5.52	
139 1,3-Dichlorobenzene	146	12.877	12.871	0.006	98	612215	5.00	5.40	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	1175777	5.00	5.47	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.932	0.000	93	911210	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.951	12.950	0.001	95	622203	5.00	5.31	
143 1,2,3-Trimethylbenzene	120	12.957	12.957	0.000	98	468671	5.00	5.13	
144 Benzyl chloride	126	13.024	13.024	0.000	98	84894	5.00	5.36	
145 p-Diethylbenzene	119	13.158	13.158	0.000	94	713222	5.00	5.69	
146 n-Butylbenzene	92	13.176	13.176	0.000	96	555490	5.00	5.65	
147 1,2-Dichlorobenzene	146	13.207	13.206	0.001	98	559380	5.00	5.40	
149 1,2-Dibromo-3-Chloropropane	155	13.755	13.755	0.000	88	28867	5.00	5.25	
150 1,3,5-Trichlorobenzene	180	13.883	13.877	0.006	98	440215	5.00	5.68	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	349668	5.00	5.77	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	94	137177	5.00	6.00	
153 Naphthalene	128	14.481	14.481	0.000	97	572778	5.00	5.63	
154 1,2,3-Trichlorobenzene	180	14.627	14.621	0.006	95	272140	5.00	5.58	
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_00176	Amount Added: 12.50	Units: uL	
MSV_LCS_Penta_00044	Amount Added: 12.50	Units: uL	
MSV_QC_Gas826_00207	Amount Added: 12.50	Units: uL	
MSV_LCS_EE_00009	Amount Added: 12.50	Units: uL	
LCS_ETBR_00008	Amount Added: 12.50	Units: uL	
MSV_LCS_ACROL_00179	Amount Added: 12.50	Units: uL	
MSV_LLcentISS_00012	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 18-Jul-2024 22:28:29

Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X20.D

Injection Date: 17-Jul-2024 20:16:30

Instrument ID: 19094

Operator ID: knk41612

Lims ID: ICV

Worklist Smp#: 21

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

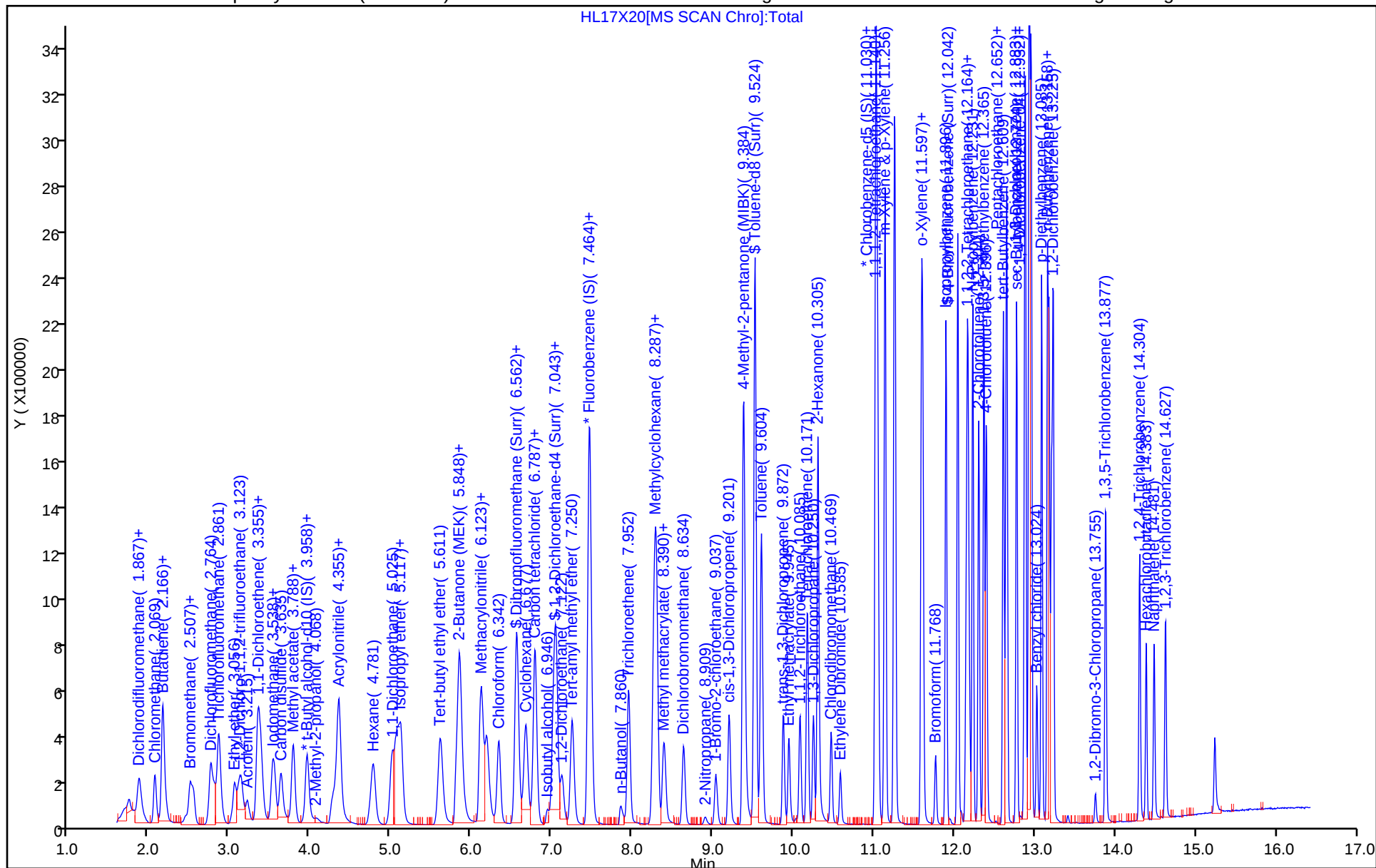
ALS Bottle#: 20

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

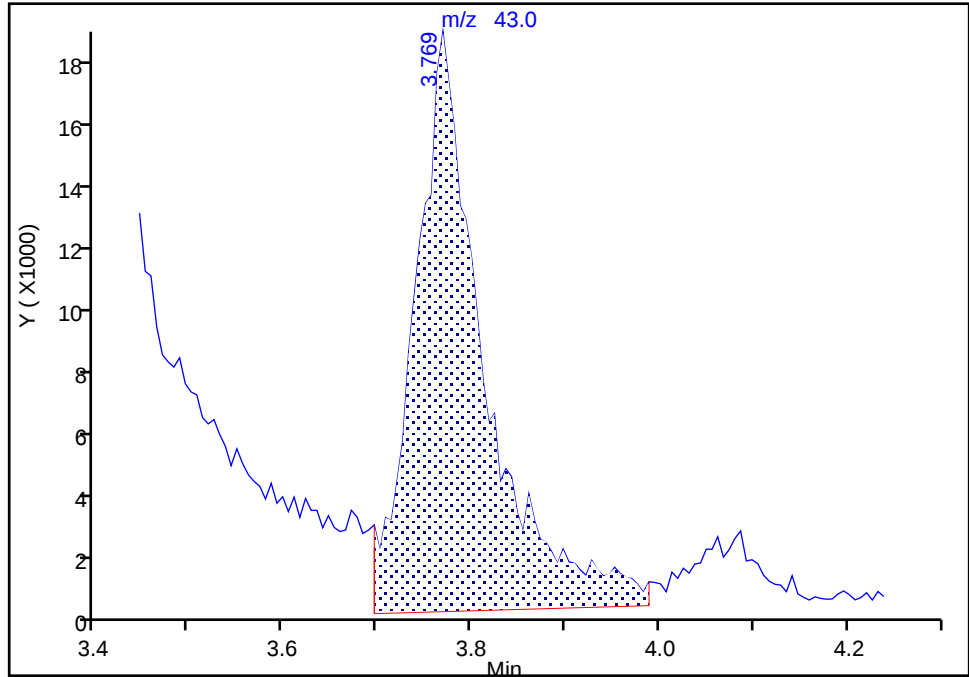
Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X20.D
Injection Date: 17-Jul-2024 20:16:30 Instrument ID: 19094
Lims ID: ICV
Client ID:
Operator ID: knk41612 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

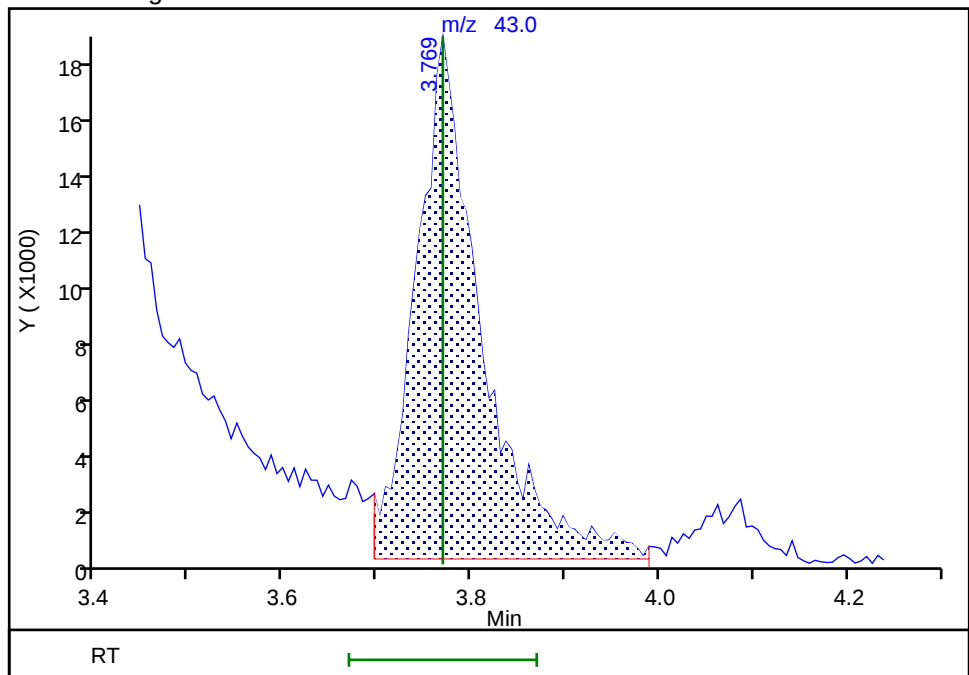
RT: 3.77
Area: 91093
Amount: 5.934409
Amount Units: ug/l

Processing Integration Results



RT: 3.77
Area: 82687
Amount: 5.494419
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 18-Jul-2024 08:29:06 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

Lab Sample ID: CCVIS 410-545038/3

Calibration Date: 08/27/2024 21:18

Instrument ID: 19094

Calib Start Date: 07/17/2024 17:30

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

Calib End Date: 07/17/2024 19:35

Lab File ID: HG27X32.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	0.2545	0.2207	0.1000	8.67	10.0	-13.3	20.0
Chloromethane	Ave	0.3177	0.3224	0.1000	10.1	10.0	1.5	20.0
1,3-Butadiene	Ave	0.2719	0.3937		14.5	10.0	44.8*	20.0
Vinyl chloride	Ave	0.2912	0.2706	0.1000	9.29	10.0	-7.1	20.0
Bromomethane	Ave	0.2040	0.1806	0.1000	8.85	10.0	-11.5	20.0
Chloroethane	Ave	0.1706	0.1609	0.1000	9.44	10.0	-5.6	20.0
Dichlorofluoromethane	Ave	0.4692	0.4157		8.86	10.0	-11.4	20.0
Trichlorofluoromethane	Ave	0.3505	0.2995	0.1000	8.54	10.0	-14.6	20.0
Ethyl ether	Ave	0.1321	0.1345		10.2	10.0	1.8	20.0
Freon 123a	Ave	0.2604	0.2332		8.96	10.0	-10.4	20.0
Acrolein	Ave	2.126	1.720		405	501	-19.1	20.0
1,1-Dichloroethene	Ave	0.1805	0.1563	0.1000	8.66	10.0	-13.4	20.0
Acetone	Ave	2.661	2.278	0.1000	85.6	100	-14.4	20.0
Freon 113	Ave	0.1775	0.1574	0.1000	8.87	10.0	-11.3	20.0
Methyl iodide	Ave	0.3583	0.3013		8.41	10.0	-15.9	20.0
Ethyl bromide	Ave	0.1605	0.1420		8.86	10.0	-11.5	20.0
Carbon disulfide	Ave	0.5143	0.4840	0.1000	9.41	10.0	-5.9	20.0
Methyl acetate	Ave	7.210	5.347	0.1000	7.42	10.0	-25.8*	20.0
Allyl chloride	Ave	0.3140	0.2941		9.36	10.0	-6.4	20.0
Methylene Chloride	Ave	0.2248	0.1819	0.1000	8.09	10.0	-19.1	20.0
t-Butyl alcohol	Ave	0.7313	0.7610		208	200	4.1	20.0
Acrylonitrile	Ave	3.604	3.168		22.0	25.0	-12.1	20.0
Methyl tert-butyl ether	Ave	0.4958	0.4163	0.1000	8.40	10.0	-16.0	20.0
trans-1,2-Dichloroethene	Ave	0.2110	0.1796	0.1000	8.51	10.0	-14.9	20.0
n-Hexane	Ave	0.2490	0.2450		9.84	10.0	-1.6	20.0
1,1-Dichloroethane	Ave	0.4033	0.3667	0.2000	9.09	10.0	-9.1	20.0
di-Isopropyl ether	Ave	0.6652	0.6237		9.38	10.0	-6.2	20.0
2-Chloro-1,3-butadiene	Ave	0.3187	0.2906		9.12	10.0	-8.8	20.0
Ethyl t-butyl ether	Ave	0.6184	0.5631		9.11	10.0	-8.9	20.0
2-Butanone (MEK)	Ave	4.394	4.126	0.1000	93.9	100	-6.1	20.0
cis-1,2-Dichloroethene	Ave	0.2403	0.2039	0.1000	8.48	10.0	-15.2	20.0
2,2-Dichloropropane	Ave	0.3347	0.2985		8.92	10.0	-10.8	20.0
Propionitrile	Linl		1.161		173	200	-13.5	20.0
Methacrylonitrile	Ave	5.033	4.223		83.9	100	-16.1	20.0
Bromochloromethane	Ave	0.1015	0.0824		8.11	10.0	-18.9	20.0
Tetrahydrofuran	Ave	1.293	1.149		44.4	50.0	-11.2	20.0
Chloroform	Ave	0.4003	0.3348	0.2000	8.36	10.0	-16.4	20.0
1,1,1-Trichloroethane	Ave	0.3414	0.2907	0.1000	8.52	10.0	-14.8	20.0
Cyclohexane	Ave	0.3381	0.3103	0.1000	9.18	10.0	-8.2	20.0
1,1-Dichloropropene	Ave	0.3038	0.2672		8.79	10.0	-12.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.: _____

Lab Sample ID: CCVIS 410-545038/3

Calibration Date: 08/27/2024 21:18

Instrument ID: 19094

Calib Start Date: 07/17/2024 17:30

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

Calib End Date: 07/17/2024 19:35

Lab File ID: HG27X32.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	0.2975	0.2539	0.1000	8.54	10.0	-14.6	20.0
Isobutyl alcohol	Ave	0.2352	0.2598		552	500	10.5	20.0
Benzene	Ave	0.9210	0.8080	0.5000	8.77	10.0	-12.3	20.0
1,2-Dichloroethane	Ave	0.2421	0.2062	0.1000	8.52	10.0	-14.8	20.0
t-Amyl methyl ether	Ave	0.5458	0.4675		8.57	10.0	-14.3	20.0
n-Heptane	Ave	0.2544	0.2301		9.04	10.0	-9.6	20.0
n-Butanol	Lin		0.2068		863	875	-1.4	20.0
Trichloroethene	Ave	0.2426	0.2030	0.2000	8.37	10.0	-16.3	20.0
Methylcyclohexane	Ave	0.3437	0.3143	0.1000	9.15	10.0	-8.5	20.0
1,2-Dichloropropane	Ave	0.2327	0.2139	0.1000	9.19	10.0	-8.1	20.0
Methyl methacrylate	Ave	9.456	7.822		8.27	10.0	-17.3	20.0
1,4-Dioxane	Qua		0.0395	0.0050	462	500	-7.6	20.0
Dibromomethane	Ave	0.1082	0.0919		8.49	10.0	-15.1	20.0
Bromodichloromethane	Ave	0.2813	0.2414	0.2000	8.58	10.0	-14.2	20.0
2-Nitropropane	Ave	3.095	2.339		37.8	50.0	-24.4*	20.0
1-Bromo-2-chloroethane	Ave	0.2047	0.2037		9.95	10.0	-0.5	20.0
cis-1,3-Dichloropropene	Ave	0.3425	0.3002	0.2000	8.76	10.0	-12.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	12.29	10.54	0.1000	85.8	100	-14.2	20.0
Toluene	Ave	0.7905	0.6969	0.4000	8.82	10.0	-11.8	20.0
trans-1,3-Dichloropropene	Ave	0.3687	0.3286	0.1000	8.91	10.0	-10.9	20.0
Ethyl methacrylate	Ave	0.2666	0.2485		9.32	10.0	-6.8	20.0
1,1,2-Trichloroethane	Ave	0.2102	0.1744	0.1000	8.30	10.0	-17.0	20.0
Tetrachloroethene	Ave	0.3673	0.3066	0.2000	8.35	10.0	-16.5	20.0
1,3-Dichloropropane	Ave	0.3572	0.3220		9.02	10.0	-9.8	20.0
2-Hexanone	Ave	8.125	7.079	0.1000	87.1	100	-12.9	20.0
Dibromochloromethane	Ave	0.2595	0.2196		8.47	10.0	-15.3	20.0
1,2-Dibromoethane (EDB)	Ave	0.1953	0.1671	0.1000	8.55	10.0	-14.5	20.0
1-Chlorohexane	Ave	0.4410	0.3723		8.44	10.0	-15.6	20.0
Chlorobenzene	Ave	0.8684	0.7453	0.5000	8.58	10.0	-14.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3036	0.2618		8.62	10.0	-13.8	20.0
Ethylbenzene	Ave	1.534	1.354	0.1000	8.83	10.0	-11.7	20.0
m&p-Xylene	Ave	0.5824	0.5221	0.1000	17.9	20.0	-10.4	20.0
o-Xylene	Ave	0.5747	0.5107	0.3000	8.89	10.0	-11.1	20.0
Styrene	Ave	0.8908	0.8096	0.3000	9.09	10.0	-9.1	20.0
Bromoform	Ave	0.1629	0.1272	0.1000	7.81	10.0	-21.9*	20.0
Isopropylbenzene	Ave	1.386	1.234	0.1000	8.90	10.0	-11.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.4525	0.4005	0.3000	8.85	10.0	-11.5	20.0
Bromobenzene	Ave	0.6586	0.5413		8.22	10.0	-17.8	20.0
trans-1,4-Dichloro-2-butene	Ave	4.924	2.972		60.4	100	-39.6*	20.0
1,2,3-Trichloropropane	Ave	0.1171	0.1020		8.71	10.0	-12.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

Lab Sample ID: CCVIS 410-545038/3

Calibration Date: 08/27/2024 21:18

Instrument ID: 19094

Calib Start Date: 07/17/2024 17:30

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

Calib End Date: 07/17/2024 19:35

Lab File ID: HG27X32.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	3.148	2.868		9.11	10.0	-8.9	20.0
2-Chlorotoluene	Ave	0.6448	0.5592		8.67	10.0	-13.3	20.0
1,3,5-Trimethylbenzene	Ave	2.214	2.018		9.11	10.0	-8.9	20.0
4-Chlorotoluene	Ave	0.6526	0.5766		8.83	10.0	-11.7	20.0
tert-Butylbenzene	Ave	0.4949	0.4550		9.19	10.0	-8.1	20.0
Pentachloroethane	Ave	0.3446	0.3549		10.3	10.0	3.0	20.0
1,2,4-Trimethylbenzene	Ave	2.215	2.058		9.29	10.0	-7.1	20.0
sec-Butylbenzene	Ave	2.733	2.530		9.26	10.0	-7.4	20.0
1,3-Dichlorobenzene	Ave	1.244	1.068	0.6000	8.58	10.0	-14.2	20.0
p-Isopropyltoluene	Ave	2.359	2.201		9.33	10.0	-6.7	20.0
1,4-Dichlorobenzene	Ave	1.286	1.079	0.5000	8.39	10.0	-16.1	20.0
1,2,3-Trimethylbenzene	Ave	1.003	0.8895		8.87	10.0	-11.3	20.0
Benzyl chloride	Ave	0.1739	0.1637		9.41	10.0	-5.9	20.0
n-Butylbenzene	Ave	1.078	1.039		9.63	10.0	-3.7	20.0
1,2-Dichlorobenzene	Ave	1.138	0.9804	0.4000	8.62	10.0	-13.8	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0603	0.0534	0.0500	8.85	10.0	-11.5	20.0
1,3,5-Trichlorobenzene	Ave	0.8504	0.7632		8.97	10.0	-10.3	20.0
1,2,4-Trichlorobenzene	Ave	0.6647	0.6137	0.2000	9.23	10.0	-7.7	20.0
Hexachlorobutadiene	Ave	0.2509	0.2481		9.89	10.0	-1.1	20.0
Naphthalene	Ave	1.116	1.064		9.53	10.0	-4.7	20.0
1,2,3-Trichlorobenzene	Ave	0.5351	0.4912		9.18	10.0	-8.2	20.0
Dibromofluoromethane (Surr)	Ave	0.2449	0.2372		9.69	10.0	-3.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0500	0.0463		9.26	10.0	-7.4	20.0
Toluene-d8 (Surr)	Ave	1.301	1.358		10.4	10.0	4.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4856	0.4914		10.1	10.0	1.2	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X32.D
 Lims ID: CCVIS VSTD10
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 27-Aug-2024 21:18:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0123379-003
 Misc. Info.: CCVIS VSTD10
 Operator ID: gaw91131 Instrument ID: 19094
 Sublist: chrom-MSV_19094_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Aug-2024 01:06:20 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1620

First Level Reviewer: JS6E

Date: 27-Aug-2024 22:22:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.879	1.879	0.000	100	740770	10.0	8.67	
5 Chloromethane	50	2.062	2.062	0.000	99	1082272	10.0	10.1	
7 Butadiene	39	2.160	2.160	0.000	91	1321507	10.0	14.5	
6 Vinyl chloride	62	2.172	2.172	0.000	98	908525	10.0	9.29	
9 Bromomethane	94	2.489	2.489	0.000	91	606321	10.0	8.85	
10 Chloroethane	64	2.544	2.544	0.000	100	540263	10.0	9.44	
11 Dichlorofluoromethane	67	2.763	2.763	0.000	97	1395499	10.0	8.86	
12 Trichlorofluoromethane	101	2.855	2.855	0.000	98	1005259	10.0	8.54	
14 Ethyl ether	59	3.050	3.050	0.000	93	451350	10.0	10.2	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.129	3.129	0.000	94	782937	10.0	8.96	
16 Acrolein	56	3.202	3.202	0.000	100	3055948	501.1	405.4	
17 1,1-Dichloroethene	96	3.343	3.343	0.000	98	524579	10.0	8.66	
19 Acetone	43	3.361	3.361	0.000	100	807883	100.0	85.6	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.385	3.385	0.000	94	528418	10.0	8.87	
21 Iodomethane	142	3.525	3.525	0.000	99	1011589	10.0	8.41	
22 Ethyl bromide	108	3.550	3.550	0.000	99	477499	10.0	8.86	
23 Carbon disulfide	76	3.629	3.629	0.000	99	1624725	10.0	9.41	
24 Methyl acetate	43	3.763	3.763	0.000	97	189594	10.0	7.42	M
26 3-Chloro-1-propene	41	3.781	3.781	0.000	92	987199	10.0	9.36	
* 28 t-Butyl alcohol-d10 (IS)	65	3.952	3.952	0.000	99	177287	50.0	50.0	
27 Methylene Chloride	84	3.952	3.952	0.000	95	610621	10.0	8.09	a
29 2-Methyl-2-propanol	59	4.074	4.074	0.000	99	539640	200.0	208.1	
31 Acrylonitrile	53	4.269	4.269	0.000	98	280822	25.0	22.0	
32 Methyl tert-butyl ether	73	4.336	4.336	0.000	96	1397560	10.0	8.40	
33 trans-1,2-Dichloroethene	96	4.355	4.355	0.000	98	602751	10.0	8.51	
34 Hexane	57	4.775	4.775	0.000	93	822435	10.0	9.84	
36 1,1-Dichloroethane	63	5.007	5.007	0.000	96	1231174	10.0	9.09	
37 Isopropyl ether	45	5.068	5.068	0.000	95	2093621	10.0	9.38	
38 2-Chloro-1,3-butadiene	53	5.123	5.123	0.000	91	975585	10.0	9.12	
40 Tert-butyl ethyl ether	59	5.610	5.610	0.000	98	1890233	10.0	9.11	

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	5.818	5.818	0.000	100	1462849	100.0	93.9	
42 cis-1,2-Dichloroethene	96	5.848	5.848	0.000	84	684425	10.0	8.48	
43 2,2-Dichloropropane	77	5.866	5.866	0.000	86	1002170	10.0	8.92	
44 Propionitrile	54	5.903	5.903	0.000	99	823508	200.0	173.1	
47 Methacrylonitrile	67	6.116	6.116	0.000	92	1497304	100.0	83.9	
48 Chlorobromomethane	128	6.183	6.183	0.000	97	276515	10.0	8.11	
49 Tetrahydrofuran	71	6.208	6.208	0.000	80	203617	50.0	44.4	
50 Chloroform	83	6.336	6.336	0.000	93	1123779	10.0	8.36	
\$ 52 Dibromofluoromethane (Surr)	113	6.555	6.555	0.000	94	796370	10.0	9.69	
53 1,1,1-Trichloroethane	97	6.567	6.567	0.000	99	975895	10.0	8.52	
54 Cyclohexane	56	6.677	6.677	0.000	91	1041746	10.0	9.18	
56 Carbon tetrachloride	117	6.787	6.787	0.000	95	852290	10.0	8.54	
55 1,1-Dichloropropene	75	6.787	6.787	0.000	97	896855	10.0	8.79	
57 Isobutyl alcohol	41	6.939	6.939	0.000	94	460596	500.0	552.3	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.013	0.000	81	155521	10.0	9.26	
59 Benzene	78	7.049	7.049	0.000	97	2712331	10.0	8.77	
60 1,2-Dichloroethane	62	7.122	7.122	0.000	97	692069	10.0	8.52	
63 Tert-amyl methyl ether	73	7.250	7.250	0.000	99	1569507	10.0	8.57	
* 64 Fluorobenzene (IS)	96	7.464	7.464	0.000	98	3356988	10.0	10.0	
65 n-Heptane	43	7.482	7.482	0.000	92	772379	10.0	9.04	
67 n-Butanol	56	7.842	7.842	0.000	89	641541	875.0	862.6	
68 Trichloroethene	95	7.951	7.951	0.000	99	681631	10.0	8.37	
69 Methylcyclohexane	83	8.262	8.262	0.000	92	1055232	10.0	9.15	
70 1,2-Dichloropropane	63	8.281	8.281	0.000	90	718202	10.0	9.19	
71 2-ethoxy-2-methyl butane	87	8.299	8.299	0.000	91	1015554	10.0	8.85	
72 Methyl methacrylate	69	8.378	8.378	0.000	91	277362	10.0	8.27	
73 1,4-Dioxane	88	8.390	8.390	0.000	35	70084	500.0	462.1	
74 Dibromomethane	93	8.390	8.390	0.000	97	308436	10.0	8.49	
76 Dichlorobromomethane	83	8.634	8.634	0.000	99	810397	10.0	8.58	
77 2-Nitropropane	41	8.902	8.902	0.000	99	414754	50.0	37.8	
79 1-Bromo-2-chloroethane	63	9.037	9.037	0.000	99	683919	10.0	9.95	
80 cis-1,3-Dichloropropene	75	9.201	9.201	0.000	96	1007788	10.0	8.76	
82 4-Methyl-2-pentanone (MIBK)	43	9.378	9.378	0.000	97	3736495	100.0	85.8	
\$ 83 Toluene-d8 (Surr)	98	9.524	9.524	0.000	94	3303705	10.0	10.4	
84 Toluene	92	9.603	9.603	0.000	98	1695247	10.0	8.82	
85 trans-1,3-Dichloropropene	75	9.872	9.872	0.000	93	799325	10.0	8.91	
104 Ethyl methacrylate	69	9.945	9.945	0.000	89	604533	10.0	9.32	
106 1,1,2-Trichloroethane	97	10.079	10.079	0.000	90	424125	10.0	8.30	
107 Tetrachloroethene	166	10.170	10.170	0.000	98	745807	10.0	8.35	
108 1,3-Dichloropropane	76	10.250	10.250	0.000	90	783273	10.0	9.02	
109 2-Hexanone	43	10.305	10.305	0.000	97	2510199	100.0	87.1	
111 Chlorodibromomethane	129	10.469	10.469	0.000	90	534268	10.0	8.47	
112 Ethylene Dibromide	107	10.585	10.585	0.000	98	406479	10.0	8.55	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	87	2432414	10.0	10.0	
114 1-Chlorohexane	91	11.036	11.036	0.000	98	905615	10.0	8.44	
115 Chlorobenzene	112	11.048	11.048	0.000	93	1812994	10.0	8.58	
116 1,1,1,2-Tetrachloroethane	131	11.134	11.134	0.000	96	636859	10.0	8.62	
117 Ethylbenzene	91	11.140	11.140	0.000	99	3293232	10.0	8.83	
119 m-Xylene & p-Xylene	106	11.256	11.256	0.000	100	2539802	20.0	17.9	
120 o-Xylene	106	11.591	11.591	0.000	97	1242127	10.0	8.89	
121 Styrene	104	11.609	11.609	0.000	95	1969397	10.0	9.09	
122 Bromoform	173	11.768	11.768	0.000	97	309459	10.0	7.81	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
123 Isopropylbenzene	105	11.896	11.896	0.000	96	3002428	10.0	8.90	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	90	1195179	10.0	10.1	
127 1,1,2,2-Tetrachloroethane	83	12.140	12.140	0.000	92	536836	10.0	8.85	
128 Bromobenzene	156	12.158	12.158	0.000	97	725476	10.0	8.22	
129 trans-1,4-Dichloro-2-butene	53	12.170	12.170	0.000	91	1053849	100.0	60.4	
130 1,2,3-Trichloropropane	110	12.188	12.188	0.000	81	136748	10.0	8.71	
131 N-Propylbenzene	91	12.225	12.225	0.000	99	3844399	10.0	9.11	
132 2-Chlorotoluene	126	12.304	12.304	0.000	96	749538	10.0	8.67	
133 1,3,5-Trimethylbenzene	105	12.365	12.365	0.000	94	2704315	10.0	9.11	
134 4-Chlorotoluene	126	12.396	12.396	0.000	98	772797	10.0	8.83	
135 tert-Butylbenzene	134	12.609	12.609	0.000	93	609878	10.0	9.19	
136 Pentachloroethane	167	12.639	12.639	0.000	93	475711	10.0	10.3	
137 1,2,4-Trimethylbenzene	105	12.652	12.652	0.000	97	2758788	10.0	9.29	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	3390956	10.0	9.26	
139 1,3-Dichlorobenzene	146	12.871	12.871	0.000	98	1431281	10.0	8.58	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	2949985	10.0	9.33	
* 141 1,4-Dichlorobenzene-d4	152	12.926	12.926	0.000	95	1340352	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.944	12.944	0.000	94	1446733	10.0	8.39	
143 1,2,3-Trimethylbenzene	120	12.956	12.956	0.000	99	1192206	10.0	8.87	
144 Benzyl chloride	126	13.024	13.024	0.000	98	219373	10.0	9.41	
145 p-Diethylbenzene	119	13.158	13.158	0.000	93	1734384	10.0	9.40	
146 n-Butylbenzene	92	13.176	13.176	0.000	98	1392502	10.0	9.63	
147 1,2-Dichlorobenzene	146	13.206	13.206	0.000	98	1314143	10.0	8.62	
149 1,2-Dibromo-3-Chloropropane	155	13.755	13.755	0.000	87	71560	10.0	8.85	
150 1,3,5-Trichlorobenzene	180	13.883	13.883	0.000	98	1022916	10.0	8.97	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	822510	10.0	9.23	
152 Hexachlorobutadiene	225	14.389	14.389	0.000	96	332580	10.0	9.89	
153 Naphthalene	128	14.481	14.481	0.000	97	1425565	10.0	9.53	
154 1,2,3-Trichlorobenzene	180	14.627	14.627	0.000	95	658335	10.0	9.18	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00145

Amount Added: 20.00

Units: uL

MSV_LL_#2_826_00151

Amount Added: 20.00

Units: uL

MSV_LL_GAS826_00230

Amount Added: 20.00

Units: uL

MSV_LLcentISS_00013

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 28-Aug-2024 01:06:21

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X32.D

Injection Date: 27-Aug-2024 21:18:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: CCVIS VSTD10

Worklist Smp#: 3

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

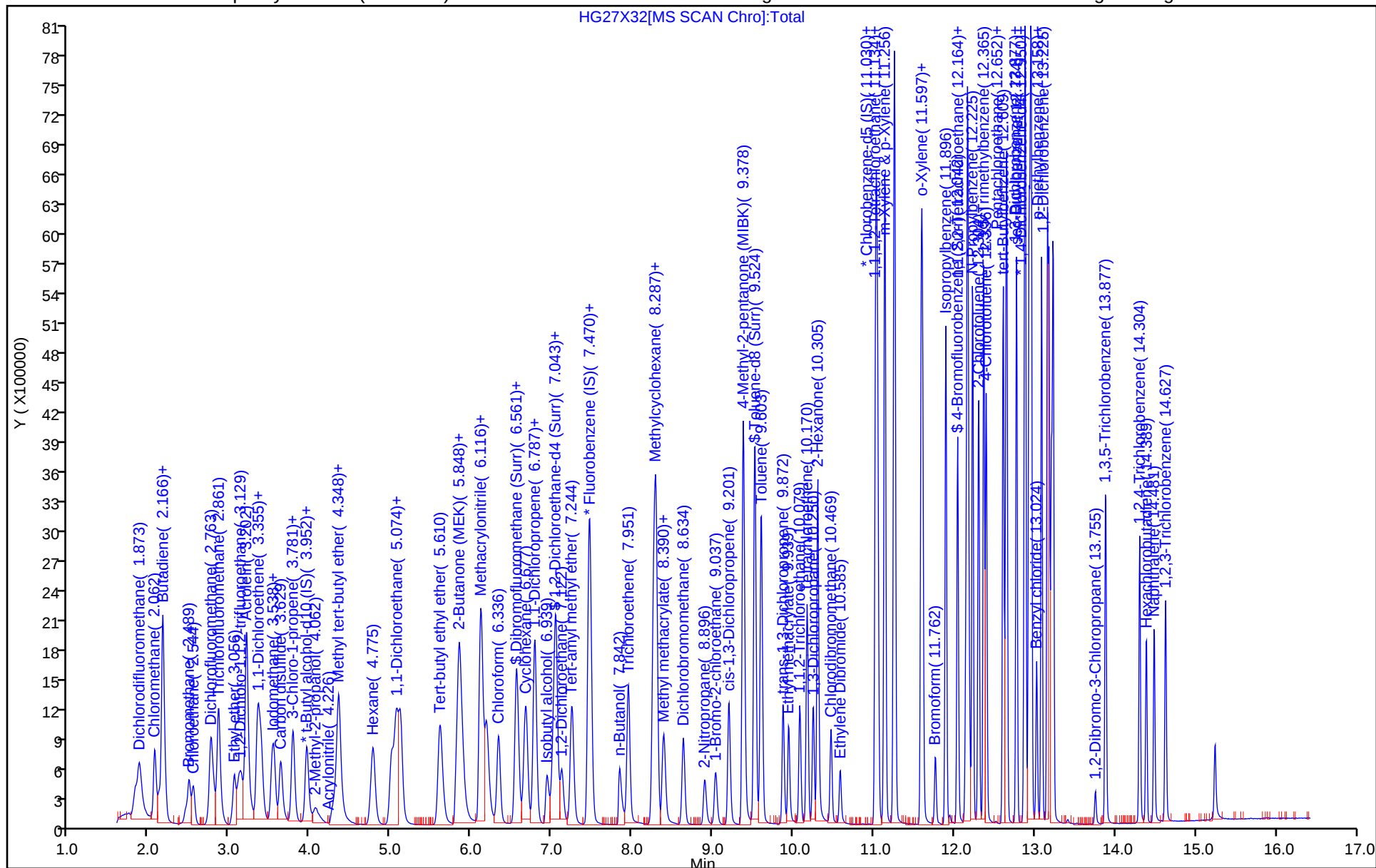
ALS Bottle#: 2

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

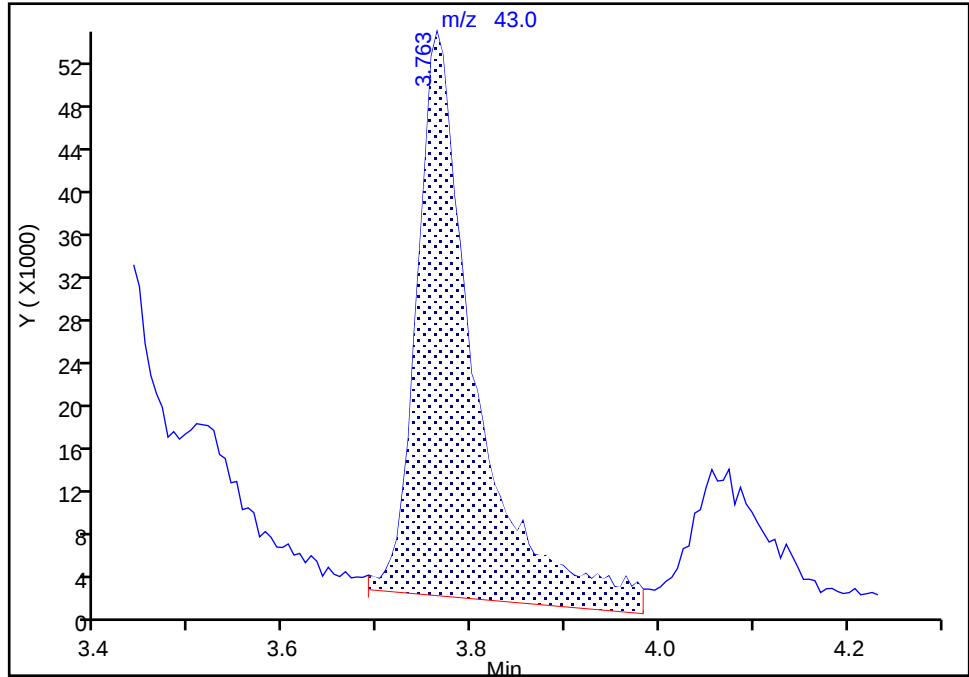
Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X32.D
Injection Date: 27-Aug-2024 21:18:30 Instrument ID: 19094
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

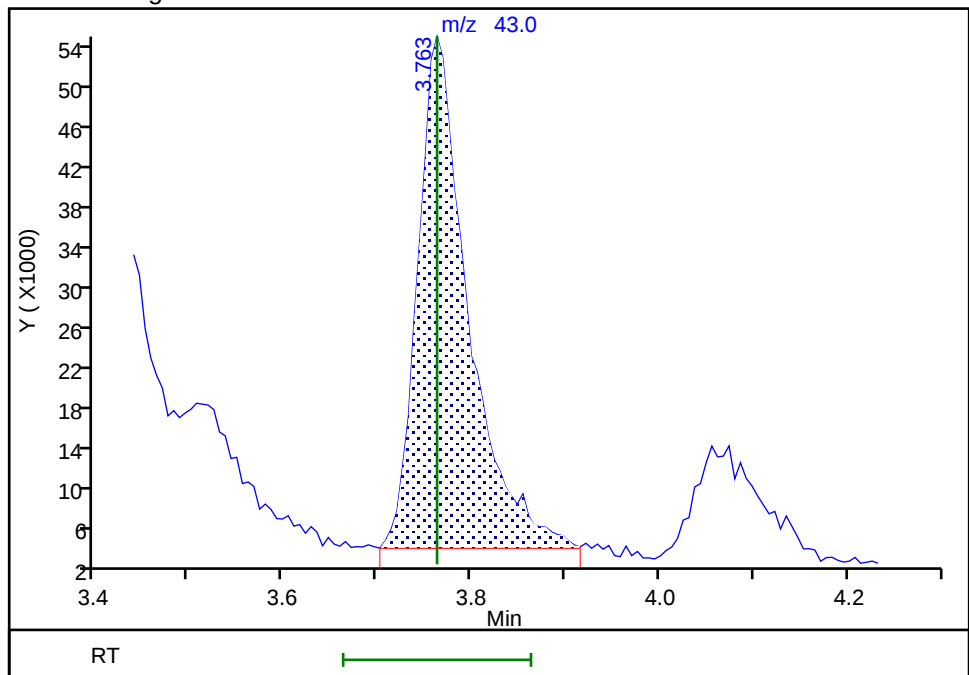
RT: 3.76
Area: 227085
Amount: 8.882567
Amount Units: ug/l

Processing Integration Results



RT: 3.76
Area: 189594
Amount: 7.416084
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 27-Aug-2024 22:20:51 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

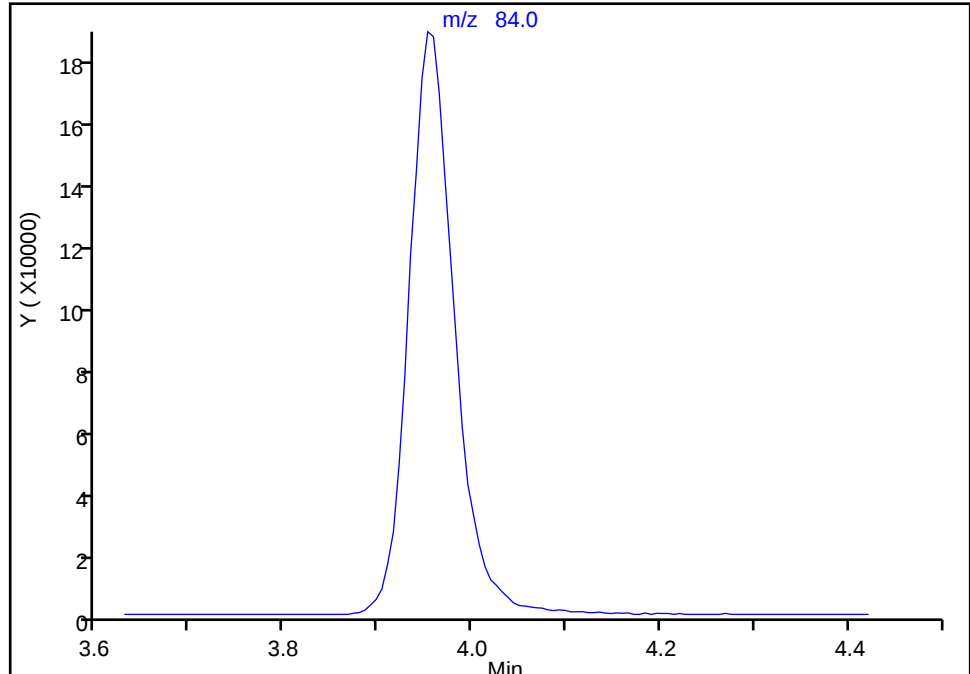
Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X32.D
Injection Date: 27-Aug-2024 21:18:30 Instrument ID: 19094
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

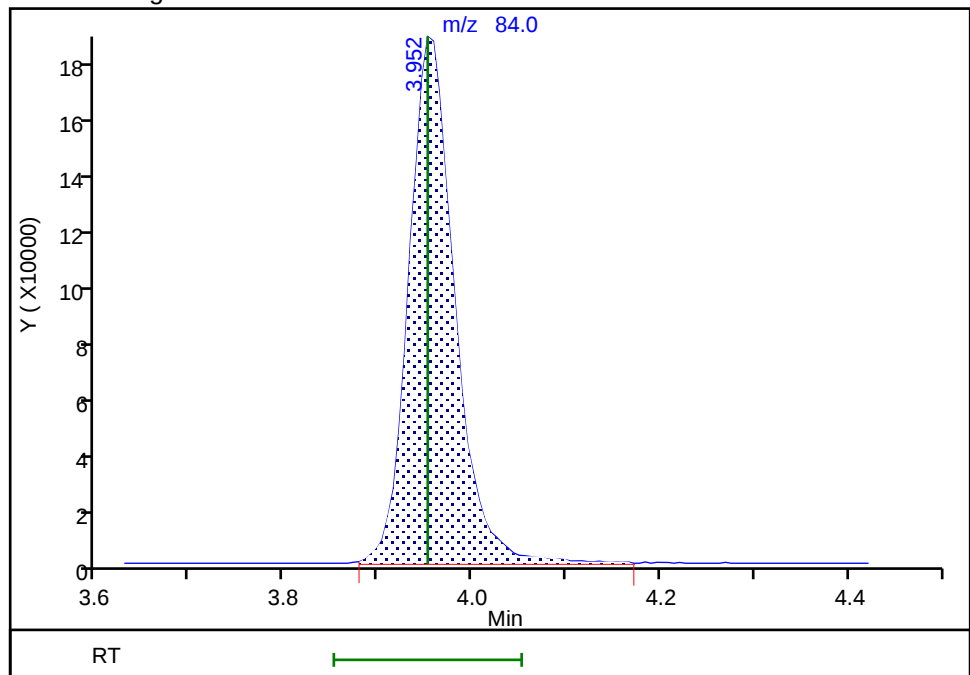
Not Detected
Expected RT: 3.95

Processing Integration Results



RT: 3.95
Area: 610621
Amount: 8.092757
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 27-Aug-2024 22:21:02 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17T01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 17-Jul-2024 13:29:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0119602-001
Misc. Info.: BFB
Operator ID: knk41612 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jul-2024 11:26:20 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1667

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
----------	-----	--------------	------------------	------------------	---	----------	-----------------	-------------------	-------

\$ 166 BFB	95	5.074	5.074	0.000	94	226424	NR	NR	
------------	----	-------	-------	-------	----	--------	----	----	--

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MSV_V_BFB_00017

Amount Added: 1.00

Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17T01.D

Injection Date: 17-Jul-2024 13:29:30

Instrument ID: 19094

Lims ID: bfb

Client ID:

Operator ID: knk41612

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

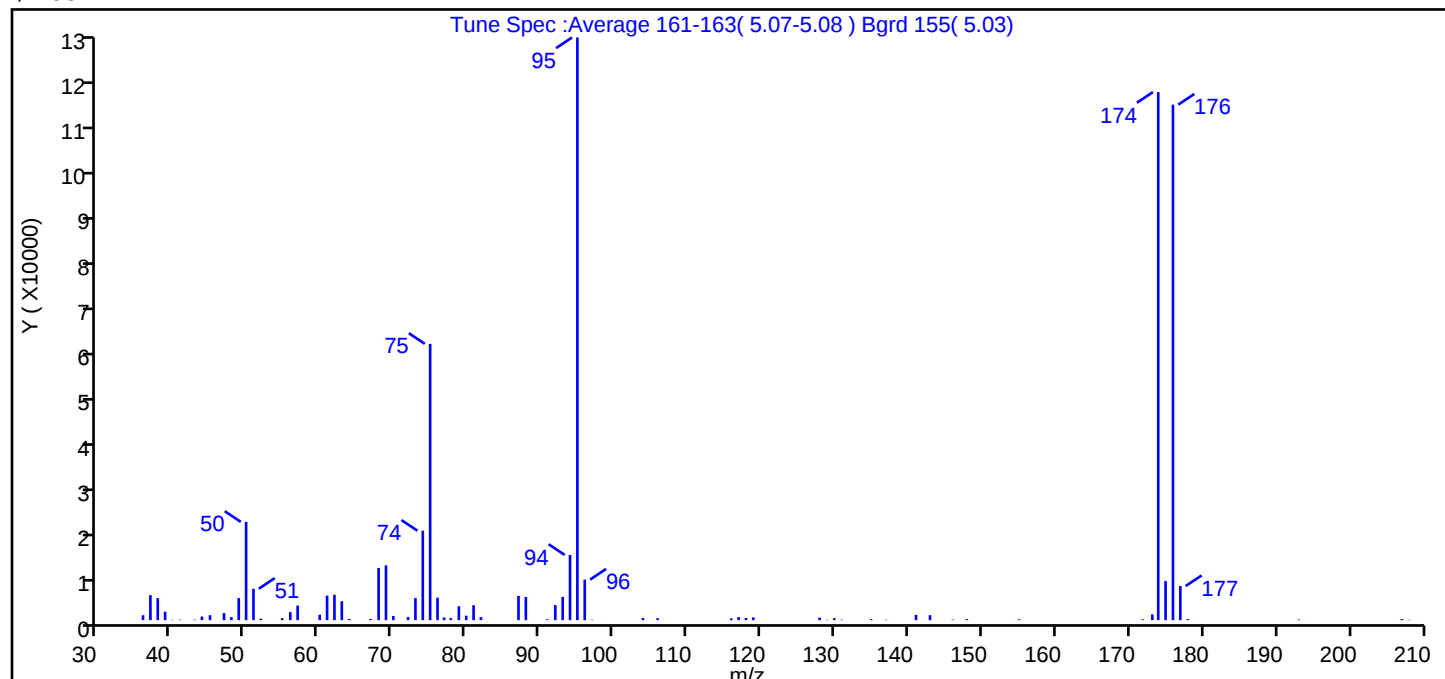
Dil. Factor: 1.0000

Method: MSV_19094_25mL

Limit Group: MSV - 8260C_D

Tune Method: BFB Method 8260

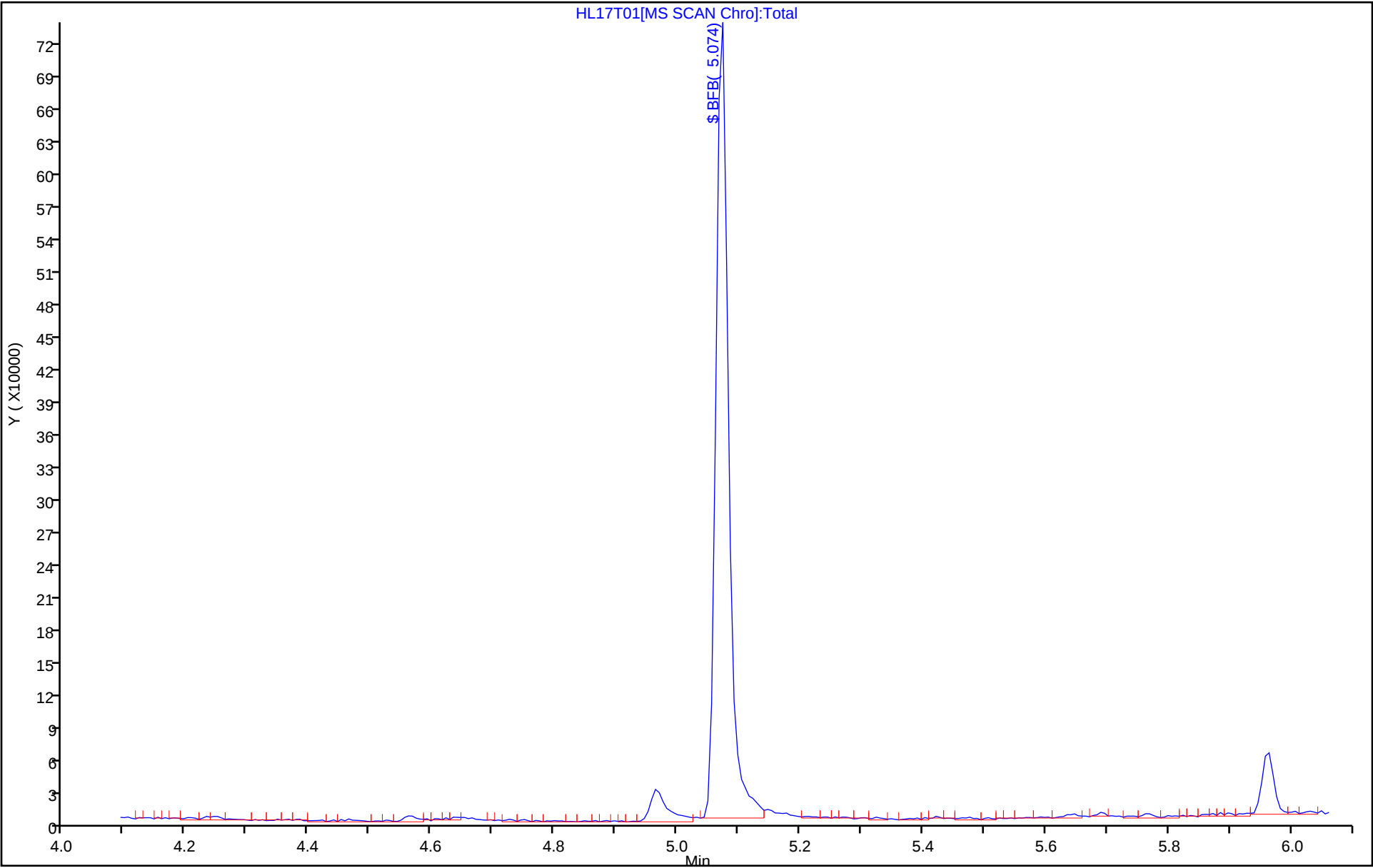
\$ 166 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.9
75	30 to 60% of m/z 95	47.4
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	1.0 (1.1)
174	50 to 120% of m/z 95	90.6
175	5 to 9% of m/z 174	6.7 (7.4)
176	Greater than 95% but less than 101% of m/z 174	88.5 (97.6)
177	5 to 9% of m/z 176	5.8 (6.6)

Data File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17T01.D\MSV_19094_25mL.rslt\spectra.d
Injection Date: 17-Jul-2024 13:29:30
Spectrum: Tune Spec :Average 161-163(5.07-5.08) Bgrd 155(5.03)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 74

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1097	61.00	5477	87.00	5406	135.00	210
37.00	5570	62.00	5660	88.00	5164	137.00	94
38.00	4914	63.00	4209	91.00	198	141.00	1169
39.00	1886	64.00	264	92.00	3355	143.00	1105
40.00	64	67.00	260	93.00	5173	146.00	117
41.00	98	68.00	11644	94.00	14540	148.00	225
43.00	110	69.00	12211	95.00	129920	155.00	178
44.00	798	70.00	929	96.00	9040	172.00	177
45.00	1099	72.00	714	97.00	97	173.00	1267
47.00	1572	73.00	4897	104.00	474	174.00	117744
48.00	675	74.00	19936	106.00	425	175.00	8702
49.00	4928	75.00	61608	116.00	392	176.00	114944
50.00	21912	76.00	5015	117.00	684	177.00	7600
51.00	7003	77.00	602	118.00	486	178.00	221
52.00	314	78.00	450	119.00	611	193.00	148
55.00	443	79.00	3096	128.00	550	207.00	236
56.00	1784	80.00	993	129.00	89	208.00	82
57.00	3252	81.00	3343	130.00	443		
60.00	1205	82.00	673	131.00	110		



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27T31.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 27-Aug-2024 20:38:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0123379-001
Misc. Info.: BFB
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Aug-2024 01:07:13 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1620

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 166 BFB	95	5.075	5.075	0.000	89	216117	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MSV_V_BFB_00017

Amount Added: 1.00

Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27T31.D

Injection Date: 27-Aug-2024 20:38:30

Instrument ID: 19094

Lims ID: BFB

Client ID:

Operator ID: gaw91131

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

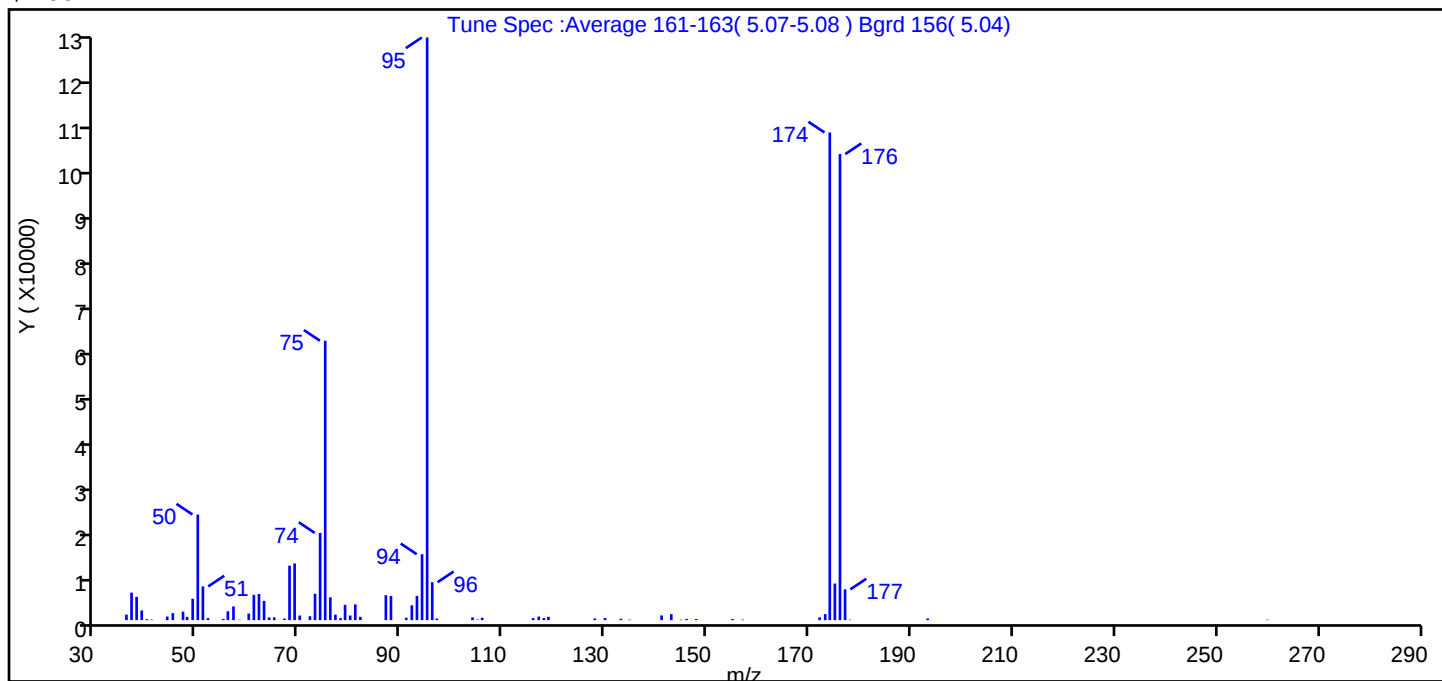
Dil. Factor: 1.0000

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	18.1
75	30 to 60% of m/z 95	48.0
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	1.0 (1.2)
174	50 to 120% of m/z 95	83.7
175	5 to 9% of m/z 174	6.3 (7.5)
176	Greater than 95% but less than 101% of m/z 174	80.0 (95.6)
177	5 to 9% of m/z 176	5.3 (6.6)

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27T31.D\MSV_19094_25mL.rslt\spectra.d
Injection Date: 27-Aug-2024 20:38:30
Spectrum: Tune Spec :Average 161-163(5.07-5.08) Bgrd 156(5.04)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 76

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1149	61.00	5242	82.00	681	133.00	289
37.00	5695	62.00	5402	87.00	5169	135.00	112
38.00	4825	63.00	3981	88.00	5006	141.00	978
39.00	2008	64.00	569	91.00	510	143.00	1236
40.00	205	65.00	582	92.00	3072	145.00	100
41.00	112	67.00	323	93.00	5025	146.00	262
44.00	743	68.00	11276	94.00	13648	148.00	228
45.00	1450	69.00	11743	95.00	120624	155.00	239
47.00	1768	70.00	960	96.00	7852	157.00	111
48.00	685	72.00	815	97.00	336	172.00	577
49.00	4428	73.00	5465	104.00	568	173.00	1245
50.00	21864	74.00	18048	105.00	116	174.00	100960
51.00	6982	75.00	57848	106.00	499	175.00	7577
52.00	416	76.00	4717	116.00	426	176.00	96488
55.00	256	77.00	1146	117.00	740	177.00	6376
56.00	1825	78.00	421	118.00	439	178.00	94
57.00	2840	79.00	3168	119.00	686	193.00	346
58.00	88	80.00	957	128.00	354	260.00	92
60.00	1362	81.00	3262	130.00	437	283.00	7

Report Date: 28-Aug-2024 01:07:13

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27T31.D

Injection Date: 27-Aug-2024 20:38:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

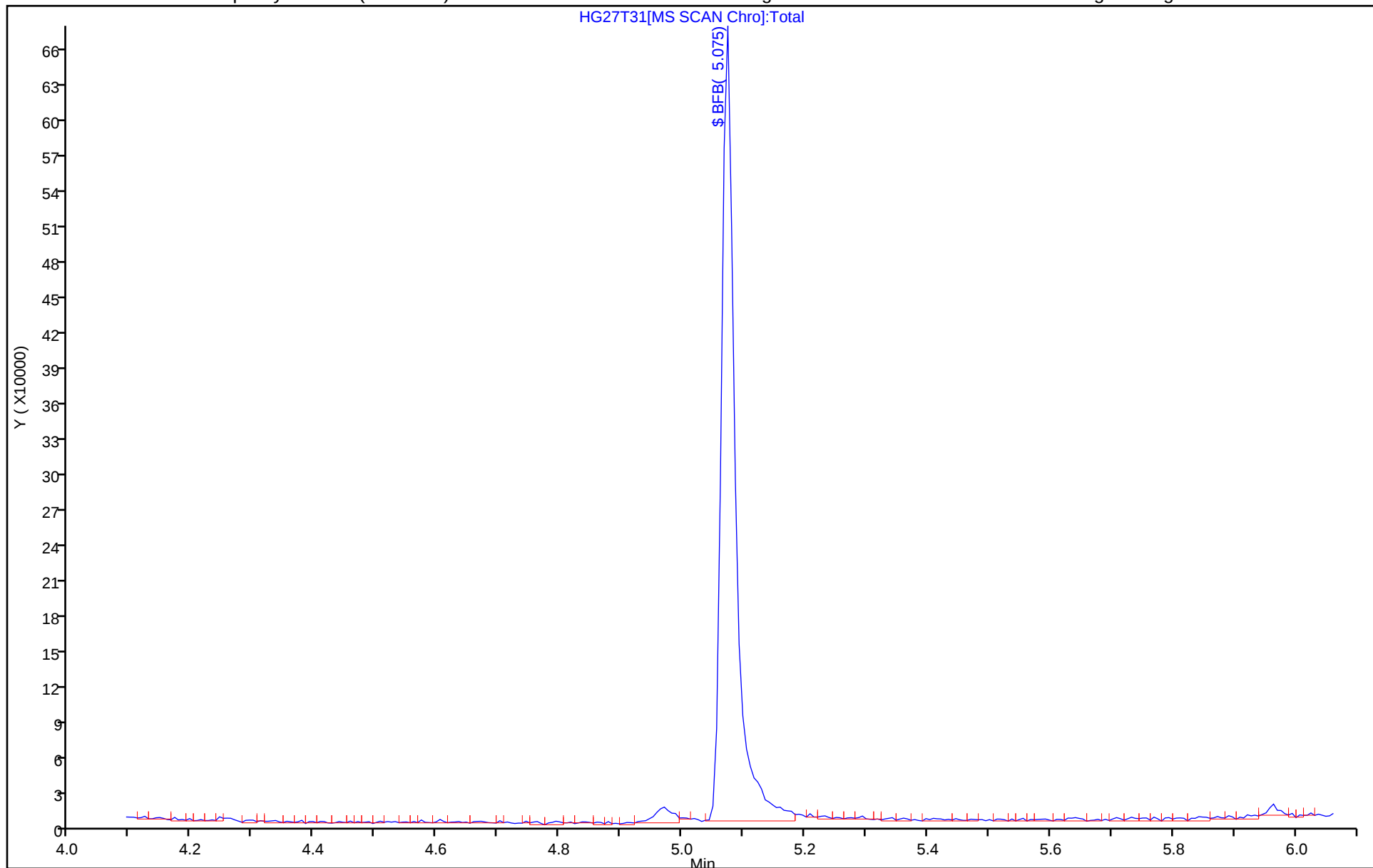
ALS Bottle#: 1

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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

Client Sample ID:

Lab Sample ID: MB 410-545038/7

Matrix: Water

Lab File ID: HG27X36.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 08/27/2024 22:40

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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

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

Lab Name:	Eurofins Lancaster Laboratories Environment Testing, LLC	Job No.:	410-185105-1
SDG No.:			
Client Sample ID:		Lab Sample ID:	MB 410-545038/7
Matrix:	Water	Lab File ID:	HG27X36.D
Analysis Method:	8260D	Date Collected:	
Sample wt/vol:	25 (mL)	Date Analyzed:	08/27/2024 22:40
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:		Level: (low/med)	Low
Analysis Batch No.:	545038	Units:	ug/L
Preparation Batch No.:		Instrument ID:	Agilent GC/MS - HP30

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)	95		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		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\20240827-123379.b\HG27X36.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 27-Aug-2024 22:40:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0123379-007
 Misc. Info.: MB
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 27-Aug-2024 23:06:44 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1620

First Level Reviewer: JS6E

Date: 27-Aug-2024 23:08:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.849					ND	
2 Dichlorodifluoromethane	85		1.879					ND	
3 Chlorodifluoromethane	51		1.898					ND	7
4 Dimethyl ether	45		1.947					ND	
5 Chloromethane	50		2.062					ND	7
7 Butadiene	39		2.160					ND	7
6 Vinyl chloride	62		2.172					ND	7
8 2-Chloro-1,1,1-Trifluoroethane	118		2.239					ND	
9 Bromomethane	94		2.489					ND	
10 Chloroethane	64		2.544					ND	
11 Dichlorofluoromethane	67		2.763					ND	
12 Trichlorofluoromethane	101		2.855					ND	
14 Ethyl ether	59		3.050					ND	
13 Ethanol	45		3.111					ND	
15 1,2-Dichloro-1,1,2-trifluoroetha	67		3.129					ND	
16 Acrolein	56		3.202					ND	
17 1,1-Dichloroethene	96		3.343					ND	
19 Acetone	43		3.361					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.385					ND	
21 Iodomethane	142		3.525					ND	
22 Ethyl bromide	108		3.550					ND	
23 Carbon disulfide	76		3.629					ND	7
24 Methyl acetate	43		3.763					ND	
25 Acetonitrile	41		3.763					ND	
26 3-Chloro-1-propene	41		3.781					ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.958	3.952	0.006	26	159812	50.0	50.0	
27 Methylene Chloride	84	3.946	3.952	-0.006	32	3133		0.0453	
29 2-Methyl-2-propanol	59		4.074					ND	
31 Acrylonitrile	53		4.269					ND	
32 Methyl tert-butyl ether	73		4.336					ND	
33 trans-1,2-Dichloroethene	96		4.355					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 Hexane	57		4.775					ND	
36 1,1-Dichloroethane	63		5.007					ND	
35 Vinyl acetate	43		5.025					ND	
37 Isopropyl ether	45		5.068					ND	
38 2-Chloro-1,3-butadiene	53		5.123					ND	
40 Tert-butyl ethyl ether	59		5.610					ND	
41 2-Butanone (MEK)	43		5.818					ND	
42 cis-1,2-Dichloroethene	96		5.848					ND	
43 2,2-Dichloropropane	77		5.866					ND	
44 Propionitrile	54		5.903					ND	
45 Ethyl acetate	43		5.909					ND	
47 Methacrylonitrile	67		6.116					ND	
S 46 1,2-Dichloroethene, Total	100		6.155					ND	7
48 Chlorobromomethane	128		6.183					ND	
49 Tetrahydrofuran	71		6.208					ND	
50 Chloroform	83		6.336					ND	
51 Methyl acrylate	55		6.482					ND	
\$ 52 Dibromofluoromethane (Surr)	113	6.555	6.555	0.000	93	731678	10.0	9.70	
53 1,1,1-Trichloroethane	97		6.567					ND	
54 Cyclohexane	56		6.677					ND	
56 Carbon tetrachloride	117		6.787					ND	
55 1,1-Dichloropropene	75		6.787					ND	
57 Isobutyl alcohol	41		6.939					ND	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.013	0.000	47	145824	10.0	9.47	
59 Benzene	78		7.049					ND	
60 1,2-Dichloroethane	62		7.122					ND	
61 Isopropyl acetate	43		7.147					ND	
63 Tert-amyl methyl ether	73		7.250					ND	
62 1-Chlorobutane	56	7.458	7.250	0.208	33	17449		NC	
* 64 Fluorobenzene (IS)	96	7.458	7.464	-0.006	98	3079212	10.0	10.0	
65 n-Heptane	43		7.482					ND	7
67 n-Butanol	56		7.842					ND	
66 t-Amyl alcohol	73		7.842					ND	
68 Trichloroethene	95		7.951					ND	7
69 Methylcyclohexane	83		8.262					ND	
70 1,2-Dichloropropane	63		8.281					ND	
71 2-ethoxy-2-methyl butane	87		8.299					ND	
72 Methyl methacrylate	69		8.378					ND	
73 1,4-Dioxane	88		8.390					ND	
74 Dibromomethane	93		8.390					ND	
75 n-Propyl acetate	61		8.470					ND	
76 Dichlorobromomethane	83		8.634					ND	
77 2-Nitropropane	41		8.902					ND	
78 2-Chloroethyl vinyl ether	63		9.018					ND	
79 1-Bromo-2-chloroethane	63		9.037					ND	
80 cis-1,3-Dichloropropene	75		9.201					ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.378					ND	
81 Chloroacetonitrile	75	9.512	9.427	0.085	31	1057		NC	
\$ 83 Toluene-d8 (Surr)	98	9.518	9.524	-0.006	94	3000522	10.0	10.2	
84 Toluene	92		9.603					ND	7
85 trans-1,3-Dichloropropene	75		9.872					ND	
104 Ethyl methacrylate	69		9.945					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
106 1,1,2-Trichloroethane	97		10.079					ND	
107 Tetrachloroethene	166		10.170					ND	
108 1,3-Dichloropropane	76		10.250					ND	
109 2-Hexanone	43		10.305					ND	
110 n-Butyl acetate	43		10.439					ND	
111 Chlorodibromomethane	129		10.469					ND	
112 Ethylene Dibromide	107		10.585					ND	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	87	2261150	10.0	10.0	
114 1-Chlorohexane	91		11.036					ND	7
115 Chlorobenzene	112		11.048					ND	7
116 1,1,1,2-Tetrachloroethane	131		11.134					ND	
117 Ethylbenzene	91		11.140					ND	7
S 118 Xylenes, Total	106		11.245					ND	7
119 m-Xylene & p-Xylene	106		11.256					ND	
120 o-Xylene	106		11.591					ND	
121 Styrene	104		11.609					ND	
122 Bromoform	173		11.768					ND	7
123 Isopropylbenzene	105		11.896					ND	
124 cis-1,4-Dichloro-2-butene	88		11.945					ND	
125 Cyclohexanone	55		11.969					ND	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	90	1095841	10.0	9.98	
127 1,1,2,2-Tetrachloroethane	83		12.140					ND	
128 Bromobenzene	156		12.158					ND	
129 trans-1,4-Dichloro-2-butene	53		12.170					ND	
130 1,2,3-Trichloropropane	110		12.188					ND	
131 N-Propylbenzene	91		12.225					ND	7
132 2-Chlorotoluene	126		12.304					ND	
133 1,3,5-Trimethylbenzene	105		12.365					ND	
134 4-Chlorotoluene	126		12.396					ND	
135 tert-Butylbenzene	134		12.609					ND	
136 Pentachloroethane	167		12.639					ND	
137 1,2,4-Trimethylbenzene	105		12.652					ND	7
138 sec-Butylbenzene	105		12.774					ND	7
139 1,3-Dichlorobenzene	146		12.871					ND	7
140 4-Isopropyltoluene	119		12.883					ND	7
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	95	1212763	10.0	10.0	
142 1,4-Dichlorobenzene	146		12.944					ND	7
143 1,2,3-Trimethylbenzene	120		12.956					ND	7
144 Benzyl chloride	126		13.024					ND	
145 p-Diethylbenzene	119		13.158					ND	U
146 n-Butylbenzene	92		13.176					ND	
147 1,2-Dichlorobenzene	146		13.206					ND	
148 Hexachloroethane	201		13.682					ND	
149 1,2-Dibromo-3-Chloropropane	155		13.755					ND	
150 1,3,5-Trichlorobenzene	180		13.883					ND	7
151 1,2,4-Trichlorobenzene	180		14.304					ND	7
152 Hexachlorobutadiene	225	14.389	14.389	0.000	71	1182		0.0388	
153 Naphthalene	128		14.481					ND	7
154 1,2,3-Trichlorobenzene	180		14.627					ND	7
155 tert-Butyl Formate	1		0.000					ND	
156 Dodecane	57		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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 TIC1			0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

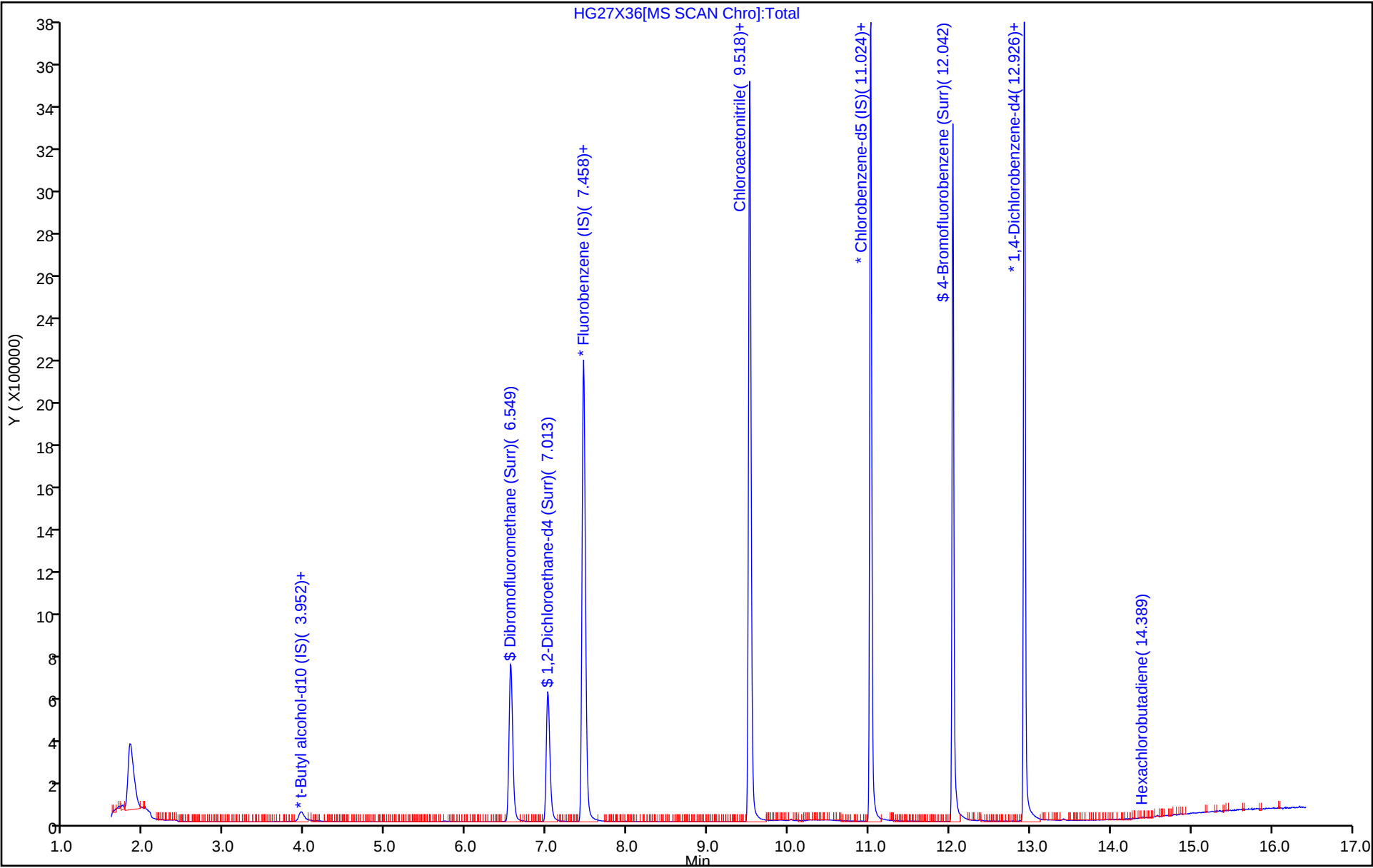
Reagents:

MSV_LLcentISS_00013

Amount Added: 5.00

Units: uL

Run Reagent



Eurofins Lancaster Laboratories Environment Testing, LLC
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X36.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 27-Aug-2024 22:40:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0123379-007
Misc. Info.: MB
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 27-Aug-2024 23:06:44 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1620

First Level Reviewer: JS6E

Date: 27-Aug-2024 23:08:05

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.70	97.03
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.47	94.67
\$ 83 Toluene-d8 (Surr)	10.0	10.2	102.04
\$ 126 4-Bromofluorobenzene (Surr)	10.0	9.98	99.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 410-545038/4

Matrix: Water

Lab File ID: HG27X33.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 08/27/2024 21:38

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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.48		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.68		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	4.51		0.50	0.10
79-00-5	1,1,2-Trichloroethane	4.36		0.50	0.080
75-34-3	1,1-Dichloroethane	4.97		0.50	0.10
75-35-4	1,1-Dichloroethene	4.82		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	4.30		0.50	0.080
107-06-2	1,2-Dichloroethane	4.39		0.50	0.070
78-87-5	1,2-Dichloropropane	4.87		0.50	0.10
78-93-3	2-Butanone (MEK)	58.4		5.0	1.0
591-78-6	2-Hexanone	56.6		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	56.6		5.0	1.0
67-64-1	Acetone	52.3		5.0	1.5
71-43-2	Benzene	4.66		0.50	0.10
74-97-5	Bromochloromethane	4.32		0.50	0.080
75-27-4	Bromodichloromethane	4.52		0.50	0.080
75-25-2	Bromoform	4.01		1.0	0.30
74-83-9	Bromomethane	4.36		0.50	0.10
75-15-0	Carbon disulfide	4.87		1.0	0.10
56-23-5	Carbon tetrachloride	4.68		0.50	0.10
108-90-7	Chlorobenzene	4.49		0.50	0.070
75-00-3	Chloroethane	4.67		0.50	0.10
67-66-3	Chloroform	4.62		0.50	0.090
74-87-3	Chloromethane	4.84		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	4.55		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.26		0.50	0.10
124-48-1	Dibromochloromethane	4.39		0.50	0.080
100-41-4	Ethylbenzene	4.63		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.27		0.50	0.080
75-09-2	Methylene Chloride	4.42		0.50	0.20
100-42-5	Styrene	4.62		0.50	0.070
127-18-4	Tetrachloroethene	4.30		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 410-545038/4

Matrix: Water

Lab File ID: HG27X33.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 08/27/2024 21:38

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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	4.57		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	4.66		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	4.51		0.50	0.080
79-01-6	Trichloroethene	4.42		0.50	0.080
75-01-4	Vinyl chloride	4.71		0.50	0.10
1330-20-7	Xylenes, Total	13.9		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X33.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 27-Aug-2024 21:38:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0123379-004
 Misc. Info.: LCS
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Aug-2024 01:06:20 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1620

First Level Reviewer: JS6E

Date: 27-Aug-2024 22:23:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.879	1.879	0.000	99	323828	5.00	3.90	
5 Chloromethane	50	2.062	2.062	0.000	99	500711	5.00	4.84	
7 Butadiene	39	2.160	2.160	0.000	92	518592	5.00	5.85	
6 Vinyl chloride	62	2.172	2.172	0.000	98	446627	5.00	4.71	
9 Bromomethane	94	2.495	2.489	0.006	91	290087	5.00	4.36	
10 Chloroethane	64	2.544	2.544	0.000	100	259805	5.00	4.67	
11 Dichlorofluoromethane	67	2.757	2.763	-0.006	97	600675	5.00	3.93	
12 Trichlorofluoromethane	101	2.855	2.855	0.000	54	441778	5.00	3.87	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.117	3.129	-0.012	94	369285	5.00	4.35	
17 1,1-Dichloroethene	96	3.349	3.343	0.007	97	283516	5.00	4.82	
19 Acetone	43	3.367	3.361	0.006	100	477553	62.5	52.3	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.385	3.385	0.000	93	254813	5.00	4.40	
21 Iodomethane	142	3.525	3.525	0.000	99	481429	5.00	4.12	
23 Carbon disulfide	76	3.629	3.629	0.000	99	816389	5.00	4.87	
24 Methyl acetate	43	3.769	3.763	0.006	99	90228	5.00	3.65	M
26 3-Chloro-1-propene	41	3.782	3.781	0.001	93	480489	5.00	4.69	
* 28 t-Butyl alcohol-d10 (IS)	65	3.958	3.952	0.006	99	171427	50.0	50.0	
27 Methylene Chloride	84	3.952	3.952	0.000	94	323538	5.00	4.42	
29 2-Methyl-2-propanol	59	4.074	4.074	0.000	97	113258	50.0	45.2	
31 Acrylonitrile	53	4.275	4.269	0.006	98	277994	25.0	22.5	
32 Methyl tert-butyl ether	73	4.336	4.336	0.000	95	690210	5.00	4.27	
33 trans-1,2-Dichloroethene	96	4.355	4.355	0.001	97	320822	5.00	4.66	
34 Hexane	57	4.775	4.775	0.000	93	382986	5.00	4.72	
36 1,1-Dichloroethane	63	5.007	5.007	0.000	96	653725	5.00	4.97	
37 Isopropyl ether	45	5.068	5.068	0.000	98	1009158	5.00	4.65	
38 2-Chloro-1,3-butadiene	53	5.123	5.123	0.000	91	470805	5.00	4.53	
40 Tert-butyl ethyl ether	59	5.610	5.610	0.000	99	917760	5.00	4.55	
41 2-Butanone (MEK)	43	5.824	5.818	0.006	100	880297	62.5	58.4	
42 cis-1,2-Dichloroethene	96	5.848	5.848	0.000	83	356681	5.00	4.55	
43 2,2-Dichloropropane	77	5.867	5.866	0.000	77	521320	5.00	4.78	
44 Propionitrile	54	5.921	5.903	0.018	97	110415	37.5	27.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
47 Methacrylonitrile	67	6.123	6.116	0.007	92	570025	37.5	33.0	
48 Chlorobromomethane	128	6.190	6.183	0.007	97	142798	5.00	4.32	
49 Tetrahydrofuran	71	6.202	6.208	-0.006	80	100581	25.0	22.7	
50 Chloroform	83	6.342	6.336	0.006	94	603303	5.00	4.62	
\$ 52 Dibromofluoromethane (Surr)	113	6.555	6.555	0.000	94	770766	10.0	9.66	
53 1,1,1-Trichloroethane	97	6.568	6.567	0.001	98	521221	5.00	4.68	
54 Cyclohexane	56	6.671	6.677	-0.006	91	512311	5.00	4.65	
56 Carbon tetrachloride	117	6.787	6.787	0.000	85	453631	5.00	4.68	
55 1,1-Dichloropropene	75	6.787	6.787	0.000	96	469389	5.00	4.74	
57 Isobutyl alcohol	41	6.946	6.939	0.007	94	105877	125.0	131.3	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.013	0.006	98	151257	10.0	9.28	
59 Benzene	78	7.049	7.049	0.000	98	1399943	5.00	4.66	
60 1,2-Dichloroethane	62	7.122	7.122	0.000	97	346369	5.00	4.39	
63 Tert-amyl methyl ether	73	7.250	7.250	0.000	99	767997	5.00	4.32	
* 64 Fluorobenzene (IS)	96	7.458	7.464	-0.006	98	3259149	10.0	10.0	
65 n-Heptane	43	7.482	7.482	0.000	92	384464	5.00	4.64	
67 n-Butanol	56	7.860	7.842	0.018	88	163333	250.0	255.6	
68 Trichloroethene	95	7.951	7.951	0.000	99	349350	5.00	4.42	
69 Methylcyclohexane	83	8.262	8.262	0.000	92	493559	5.00	4.41	
70 1,2-Dichloropropane	63	8.287	8.281	0.006	90	369700	5.00	4.87	
71 2-ethoxy-2-methyl butane	87	8.293	8.299	-0.006	91	487439	5.00	4.38	
72 Methyl methacrylate	69	8.384	8.378	0.006	91	127478	5.00	3.93	
73 1,4-Dioxane	88	8.396	8.390	0.006	30	22767	125.0	166.4	
74 Dibromomethane	93	8.396	8.390	0.006	97	153391	5.00	4.35	
76 Dichlorobromomethane	83	8.634	8.634	0.000	99	414321	5.00	4.52	
77 2-Nitropropane	41	8.909	8.902	0.007	96	36703	5.00	3.46	
79 1-Bromo-2-chloroethane	63	9.037	9.037	0.000	99	334693	5.00	5.02	
80 cis-1,3-Dichloropropene	75	9.201	9.201	0.000	96	475085	5.00	4.26	
82 4-Methyl-2-pentanone (MIBK)	43	9.378	9.378	0.000	97	2385768	62.5	56.6	
\$ 83 Toluene-d8 (Surr)	98	9.518	9.524	-0.006	94	3224561	10.0	10.4	
84 Toluene	92	9.604	9.603	0.001	98	861239	5.00	4.57	
85 trans-1,3-Dichloropropene	75	9.878	9.872	0.006	93	396093	5.00	4.51	
104 Ethyl methacrylate	69	9.945	9.945	0.000	89	284466	5.00	4.48	
106 1,1,2-Trichloroethane	97	10.079	10.079	0.000	90	218004	5.00	4.36	
107 Tetrachloroethene	166	10.171	10.170	0.001	98	376370	5.00	4.30	
108 1,3-Dichloropropane	76	10.250	10.250	0.000	90	390379	5.00	4.59	
109 2-Hexanone	43	10.305	10.305	0.000	97	1577344	62.5	56.6	
111 Chlorodibromomethane	129	10.469	10.469	0.000	90	271298	5.00	4.39	
112 Ethylene Dibromide	107	10.585	10.585	0.000	99	200117	5.00	4.30	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	87	2381602	10.0	10.0	
114 1-Chlorohexane	91	11.036	11.036	0.000	98	444408	5.00	4.23	
115 Chlorobenzene	112	11.048	11.048	0.000	94	928864	5.00	4.49	
116 1,1,1,2-Tetrachloroethane	131	11.134	11.134	0.000	96	324267	5.00	4.48	
117 Ethylbenzene	91	11.140	11.140	0.000	99	1691062	5.00	4.63	
119 m-Xylene & p-Xylene	106	11.256	11.256	0.000	100	1291905	10.0	9.31	
120 o-Xylene	106	11.591	11.591	0.000	97	623313	5.00	4.55	
121 Styrene	104	11.609	11.609	0.000	95	980751	5.00	4.62	
122 Bromoform	173	11.768	11.768	0.000	97	155422	5.00	4.01	
123 Isopropylbenzene	105	11.896	11.896	0.000	96	1636313	5.00	4.96	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	90	1164762	10.0	10.1	
127 1,1,2,2-Tetrachloroethane	83	12.146	12.140	0.006	93	268679	5.00	4.51	
128 Bromobenzene	156	12.158	12.158	0.000	96	364266	5.00	4.20	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
129 trans-1,4-Dichloro-2-butene	53	12.170	12.170	0.000	92	202656	25.0	12.0	
130 1,2,3-Trichloropropane	110	12.188	12.188	0.000	82	71135	5.00	4.62	
131 N-Propylbenzene	91	12.225	12.225	0.000	99	1966371	5.00	4.75	
132 2-Chlorotoluene	126	12.304	12.304	0.000	96	378841	5.00	4.47	
133 1,3,5-Trimethylbenzene	105	12.365	12.365	0.000	94	1365798	5.00	4.69	
134 4-Chlorotoluene	126	12.396	12.396	0.000	98	384441	5.00	4.48	
135 tert-Butylbenzene	134	12.609	12.609	0.000	94	280801	5.00	4.31	
137 1,2,4-Trimethylbenzene	105	12.652	12.652	0.000	98	1376768	5.00	4.72	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	1687615	5.00	4.69	
139 1,3-Dichlorobenzene	146	12.871	12.871	0.000	98	725964	5.00	4.44	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	1437692	5.00	4.63	
* 141 1,4-Dichlorobenzene-d4	152	12.926	12.926	0.000	95	1315811	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.950	12.944	0.006	94	718181	5.00	4.24	
143 1,2,3-Trimethylbenzene	120	12.957	12.956	0.001	98	587338	5.00	4.45	
144 Benzyl chloride	126	13.024	13.024	0.000	99	104447	5.00	4.57	
145 p-Diethylbenzene	119	13.158	13.158	0.000	94	848735	5.00	4.69	
146 n-Butylbenzene	92	13.176	13.176	0.000	98	665286	5.00	4.69	
147 1,2-Dichlorobenzene	146	13.207	13.206	0.001	98	663012	5.00	4.43	
149 1,2-Dibromo-3-Chloropropane	155	13.755	13.755	0.000	85	33746	5.00	4.25	
150 1,3,5-Trichlorobenzene	180	13.883	13.883	0.000	97	501514	5.00	4.48	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	402880	5.00	4.61	
152 Hexachlorobutadiene	225	14.389	14.389	0.000	95	172826	5.00	5.23	
153 Naphthalene	128	14.487	14.481	0.006	97	724402	5.00	4.93	
154 1,2,3-Trichlorobenzene	180	14.627	14.627	0.000	95	337101	5.00	4.79	
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_00182

Amount Added: 12.50

Units: uL

MSV_QC_Gas826_00216

Amount Added: 12.50

Units: uL

MSV_LLcentISS_00013

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 28-Aug-2024 01:06:27

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X33.D

Injection Date: 27-Aug-2024 21:38:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

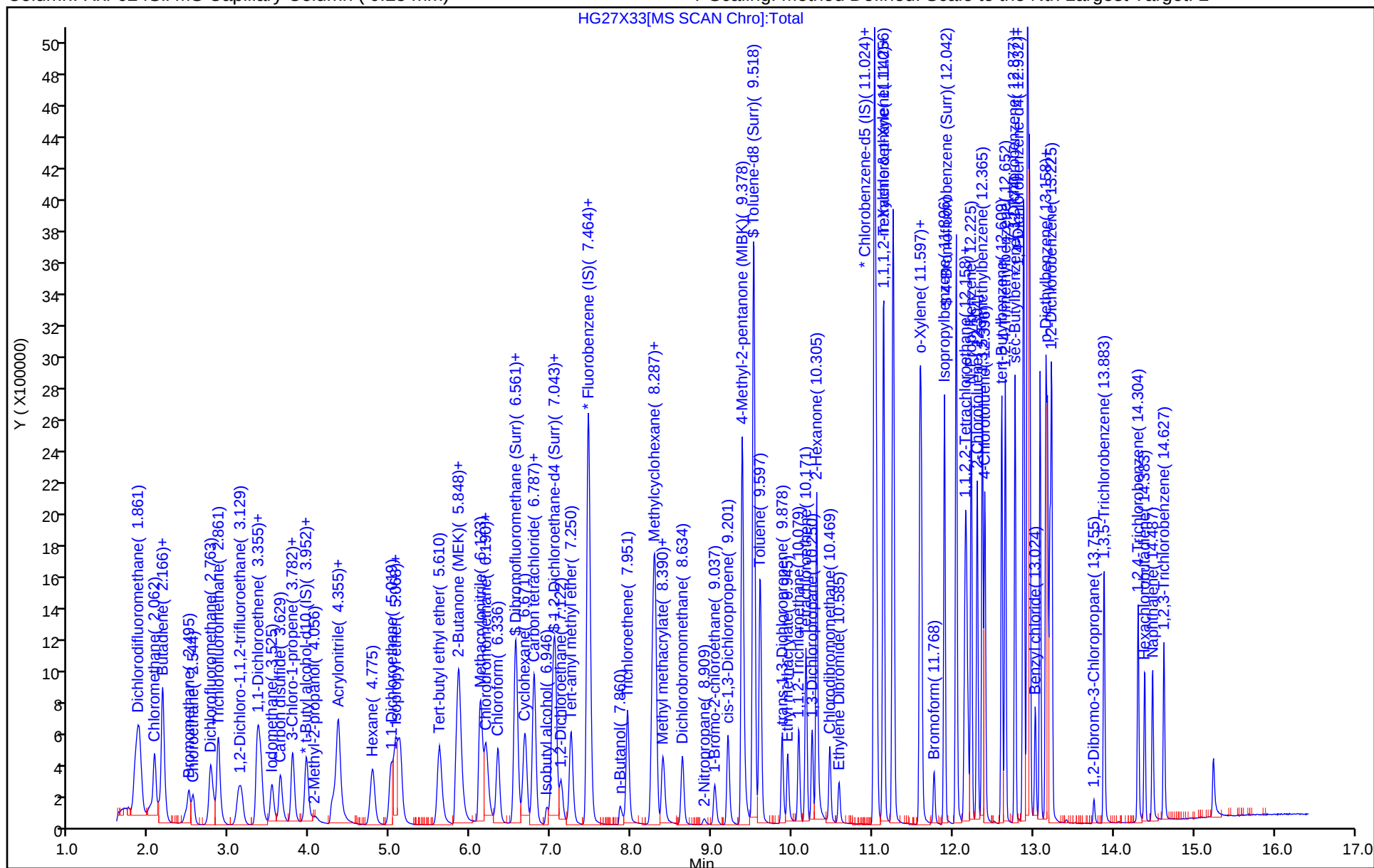
ALS Bottle#: 3

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\20240827-123379.b\HG27X33.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 27-Aug-2024 21:38:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0123379-004
Misc. Info.: LCS
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Aug-2024 01:06:20 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1620

First Level Reviewer: JS6E

Date: 27-Aug-2024 22:23:05

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.66	96.57
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.28	92.78
\$ 83 Toluene-d8 (Surr)	10.0	10.4	104.11
\$ 126 4-Bromofluorobenzene (Surr)	10.0	10.1	100.70

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCSD 410-545038/5

Matrix: Water

Lab File ID: HG27X34.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 08/27/2024 21:59

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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.43		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.61		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	4.53		0.50	0.10
79-00-5	1,1,2-Trichloroethane	4.38		0.50	0.080
75-34-3	1,1-Dichloroethane	4.84		0.50	0.10
75-35-4	1,1-Dichloroethene	4.79		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	4.23		0.50	0.080
107-06-2	1,2-Dichloroethane	4.44		0.50	0.070
78-87-5	1,2-Dichloropropane	4.75		0.50	0.10
78-93-3	2-Butanone (MEK)	64.1		5.0	1.0
591-78-6	2-Hexanone	59.4		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	58.8		5.0	1.0
67-64-1	Acetone	54.4		5.0	1.5
71-43-2	Benzene	4.58		0.50	0.10
74-97-5	Bromochloromethane	4.31		0.50	0.080
75-27-4	Bromodichloromethane	4.50		0.50	0.080
75-25-2	Bromoform	3.98		1.0	0.30
74-83-9	Bromomethane	4.28		0.50	0.10
75-15-0	Carbon disulfide	4.76		1.0	0.10
56-23-5	Carbon tetrachloride	4.54		0.50	0.10
108-90-7	Chlorobenzene	4.49		0.50	0.070
75-00-3	Chloroethane	4.59		0.50	0.10
67-66-3	Chloroform	4.52		0.50	0.090
74-87-3	Chloromethane	4.86		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	4.51		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.22		0.50	0.10
124-48-1	Dibromochloromethane	4.38		0.50	0.080
100-41-4	Ethylbenzene	4.58		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.23		0.50	0.080
75-09-2	Methylene Chloride	4.38		0.50	0.20
100-42-5	Styrene	4.58		0.50	0.070
127-18-4	Tetrachloroethene	4.30		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 410-545038/5

Matrix: Water Lab File ID: HG27X34.D

Analysis Method: 8260D Date Collected: _____

Sample wt/vol: 25 (mL) Date Analyzed: 08/27/2024 21:59

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.: 545038 Units: ug/L

Preparation Batch No.: _____ Instrument ID: Agilent GC/MS - HP30

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	4.54		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	4.56		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	4.47		0.50	0.080
79-01-6	Trichloroethene	4.34		0.50	0.080
75-01-4	Vinyl chloride	4.60		0.50	0.10
1330-20-7	Xylenes, Total	13.8		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		80-120
2037-26-5	Toluene-d8 (Surr)	105		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X34.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 27-Aug-2024 21:59:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0123379-005
 Misc. Info.: LCSD
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 27-Aug-2024 23:06:44 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1620

First Level Reviewer: JS6E

Date: 27-Aug-2024 23:02:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.873	1.879	-0.006	99	315074	5.00	3.76	
5 Chloromethane	50	2.062	2.062	0.000	99	508425	5.00	4.86	
7 Butadiene	39	2.160	2.160	0.000	90	525080	5.00	5.87	
6 Vinyl chloride	62	2.178	2.172	0.006	98	440627	5.00	4.60	
9 Bromomethane	94	2.495	2.489	0.006	91	287560	5.00	4.28	
10 Chloroethane	64	2.544	2.544	0.000	100	257829	5.00	4.59	
11 Dichlorofluoromethane	67	2.763	2.763	0.000	96	590555	5.00	3.82	
12 Trichlorofluoromethane	101	2.855	2.855	0.000	98	437602	5.00	3.79	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.135	3.129	0.006	94	363111	5.00	4.24	
17 1,1-Dichloroethene	96	3.343	3.343	0.001	97	284801	5.00	4.79	
19 Acetone	43	3.367	3.361	0.006	100	474049	62.5	54.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.385	3.385	0.000	92	249736	5.00	4.27	
21 Iodomethane	142	3.526	3.525	0.001	99	480172	5.00	4.07	
23 Carbon disulfide	76	3.629	3.629	0.000	99	806512	5.00	4.76	
24 Methyl acetate	43	3.769	3.763	0.006	28	78993	5.00	3.34	M
26 3-Chloro-1-propene	41	3.782	3.781	0.001	92	472900	5.00	4.57	
* 28 t-Butyl alcohol-d10 (IS)	65	3.958	3.952	0.006	98	163806	50.0	50.0	
27 Methylene Chloride	84	3.958	3.952	0.006	94	324066	5.00	4.38	a
29 2-Methyl-2-propanol	59	4.068	4.074	-0.006	99	131856	50.0	55.0	
31 Acrylonitrile	53	4.275	4.269	0.006	98	257996	25.0	21.8	
32 Methyl tert-butyl ether	73	4.336	4.336	0.000	96	689912	5.00	4.23	
33 trans-1,2-Dichloroethene	96	4.355	4.355	0.001	98	316977	5.00	4.56	
34 Hexane	57	4.787	4.775	0.012	92	376852	5.00	4.60	
36 1,1-Dichloroethane	63	5.007	5.007	0.000	96	643188	5.00	4.84	
37 Isopropyl ether	45	5.068	5.068	0.000	95	1019596	5.00	4.66	
38 2-Chloro-1,3-butadiene	53	5.123	5.123	0.000	91	465761	5.00	4.44	
40 Tert-butyl ethyl ether	59	5.604	5.610	-0.006	98	930013	5.00	4.57	
41 2-Butanone (MEK)	43	5.824	5.818	0.006	100	922111	62.5	64.1	
42 cis-1,2-Dichloroethene	96	5.848	5.848	0.000	83	356761	5.00	4.51	
43 2,2-Dichloropropane	77	5.867	5.866	0.001	87	521095	5.00	4.73	
44 Propionitrile	54	5.928	5.903	0.025	97	116322	37.5	30.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
47 Methacrylonitrile	67	6.123	6.116	0.007	92	559019	37.5	33.9	
48 Chlorobromomethane	128	6.184	6.183	0.001	96	143984	5.00	4.31	
49 Tetrahydrofuran	71	6.220	6.208	0.012	79	96647	25.0	22.8	
50 Chloroform	83	6.342	6.336	0.006	93	596025	5.00	4.52	
\$ 52 Dibromofluoromethane (Surr)	113	6.555	6.555	0.000	93	777887	10.0	9.65	
53 1,1,1-Trichloroethane	97	6.568	6.567	0.001	98	517986	5.00	4.61	
54 Cyclohexane	56	6.677	6.677	0.000	91	504782	5.00	4.53	
56 Carbon tetrachloride	117	6.787	6.787	0.000	93	444268	5.00	4.54	
55 1,1-Dichloropropene	75	6.787	6.787	0.000	97	461764	5.00	4.62	
57 Isobutyl alcohol	41	6.946	6.939	0.007	95	108355	125.0	140.6	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.013	0.006	98	151067	10.0	9.17	
59 Benzene	78	7.055	7.049	0.006	96	1388907	5.00	4.58	
60 1,2-Dichloroethane	62	7.122	7.122	0.000	97	353888	5.00	4.44	
63 Tert-amyl methyl ether	73	7.244	7.250	-0.006	99	767845	5.00	4.27	
* 64 Fluorobenzene (IS)	96	7.458	7.464	-0.006	98	3292391	10.0	10.0	
65 n-Heptane	43	7.482	7.482	0.000	92	380301	5.00	4.54	
67 n-Butanol	56	7.860	7.842	0.018	88	150965	250.0	248.5	
68 Trichloroethene	95	7.951	7.951	0.000	99	346956	5.00	4.34	
69 Methylcyclohexane	83	8.262	8.262	0.000	92	497127	5.00	4.39	
70 1,2-Dichloropropane	63	8.281	8.281	0.000	90	363933	5.00	4.75	
71 2-ethoxy-2-methyl butane	87	8.299	8.299	0.000	92	493769	5.00	4.39	
72 Methyl methacrylate	69	8.384	8.378	0.006	92	126833	5.00	4.09	
73 1,4-Dioxane	88	8.390	8.390	0.000	30	16667	125.0	132.7	
74 Dibromomethane	93	8.397	8.390	0.007	97	151009	5.00	4.24	
76 Dichlorobromomethane	83	8.634	8.634	0.000	99	417118	5.00	4.50	
77 2-Nitropropane	41	8.903	8.902	0.001	99	37363	5.00	3.68	
79 1-Bromo-2-chloroethane	63	9.037	9.037	0.000	99	333048	5.00	4.94	
80 cis-1,3-Dichloropropene	75	9.201	9.201	0.000	96	475748	5.00	4.22	
82 4-Methyl-2-pentanone (MIBK)	43	9.378	9.378	0.000	97	2367649	62.5	58.8	
\$ 83 Toluene-d8 (Surr)	98	9.518	9.524	-0.006	93	3259035	10.0	10.5	
84 Toluene	92	9.604	9.603	0.001	98	859972	5.00	4.54	
85 trans-1,3-Dichloropropene	75	9.878	9.872	0.006	92	394907	5.00	4.47	
104 Ethyl methacrylate	69	9.945	9.945	0.000	89	278316	5.00	4.36	
106 1,1,2-Trichloroethane	97	10.085	10.079	0.006	90	220575	5.00	4.38	
107 Tetrachloroethene	166	10.171	10.170	0.001	98	377917	5.00	4.30	
108 1,3-Dichloropropane	76	10.250	10.250	0.000	90	395617	5.00	4.62	
109 2-Hexanone	43	10.305	10.305	0.000	97	1582104	62.5	59.4	
111 Chlorodibromomethane	129	10.469	10.469	0.000	90	271935	5.00	4.38	
112 Ethylene Dibromide	107	10.585	10.585	0.000	99	197833	5.00	4.23	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	87	2395207	10.0	10.0	
114 1-Chlorohexane	91	11.036	11.036	0.000	98	445461	5.00	4.22	
115 Chlorobenzene	112	11.048	11.048	0.000	94	933648	5.00	4.49	
116 1,1,1,2-Tetrachloroethane	131	11.134	11.134	0.000	96	321969	5.00	4.43	
117 Ethylbenzene	91	11.140	11.140	0.000	99	1680537	5.00	4.58	
119 m-Xylene & p-Xylene	106	11.256	11.256	0.000	100	1291921	10.0	9.26	
120 o-Xylene	106	11.591	11.591	0.000	97	619522	5.00	4.50	
121 Styrene	104	11.609	11.609	0.000	95	977735	5.00	4.58	
122 Bromoform	173	11.768	11.768	0.000	97	155219	5.00	3.98	
123 Isopropylbenzene	105	11.896	11.896	0.000	96	1638200	5.00	4.93	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	90	1176066	10.0	10.1	
127 1,1,1,2,2-Tetrachloroethane	83	12.140	12.140	0.000	93	266848	5.00	4.53	
128 Bromobenzene	156	12.158	12.158	0.000	96	367639	5.00	4.29	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
129 trans-1,4-Dichloro-2-butene	53	12.170	12.170	0.000	88	177739	25.0	11.0	
130 1,2,3-Trichloropropane	110	12.188	12.188	0.000	83	70002	5.00	4.60	
131 N-Propylbenzene	91	12.225	12.225	0.000	99	1949970	5.00	4.76	
132 2-Chlorotoluene	126	12.304	12.304	0.000	96	379130	5.00	4.52	
133 1,3,5-Trimethylbenzene	105	12.365	12.365	0.000	94	1361842	5.00	4.73	
134 4-Chlorotoluene	126	12.396	12.396	0.000	98	378094	5.00	4.46	
135 tert-Butylbenzene	134	12.609	12.609	0.000	94	281070	5.00	4.37	
137 1,2,4-Trimethylbenzene	105	12.652	12.652	0.000	98	1371535	5.00	4.76	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	1686057	5.00	4.74	
139 1,3-Dichlorobenzene	146	12.871	12.871	0.000	98	715260	5.00	4.42	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	1435420	5.00	4.68	
* 141 1,4-Dichlorobenzene-d4	152	12.926	12.926	0.000	95	1300362	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.944	12.944	0.000	95	728153	5.00	4.35	
143 1,2,3-Trimethylbenzene	120	12.957	12.956	0.001	99	585385	5.00	4.49	
144 Benzyl chloride	126	13.024	13.024	0.000	99	102306	5.00	4.53	
145 p-Diethylbenzene	119	13.158	13.158	0.000	94	833208	5.00	4.66	
146 n-Butylbenzene	92	13.176	13.176	0.000	97	654826	5.00	4.67	
147 1,2-Dichlorobenzene	146	13.207	13.206	0.001	98	664373	5.00	4.49	
149 1,2-Dibromo-3-Chloropropane	155	13.755	13.755	0.000	83	33740	5.00	4.30	
150 1,3,5-Trichlorobenzene	180	13.883	13.883	0.000	97	495881	5.00	4.48	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	395912	5.00	4.58	
152 Hexachlorobutadiene	225	14.389	14.389	0.000	96	165105	5.00	5.06	
153 Naphthalene	128	14.487	14.481	0.006	97	690250	5.00	4.76	
154 1,2,3-Trichlorobenzene	180	14.627	14.627	0.000	95	313153	5.00	4.50	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LCS_VOC#1_00182

Amount Added: 12.50

Units: uL

MSV_QC_Gas826_00216

Amount Added: 12.50

Units: uL

MSV_LLcentISS_00013

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 28-Aug-2024 01:06:50

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X34.D

Injection Date: 27-Aug-2024 21:59:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: LCSD

Worklist Smp#: 5

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

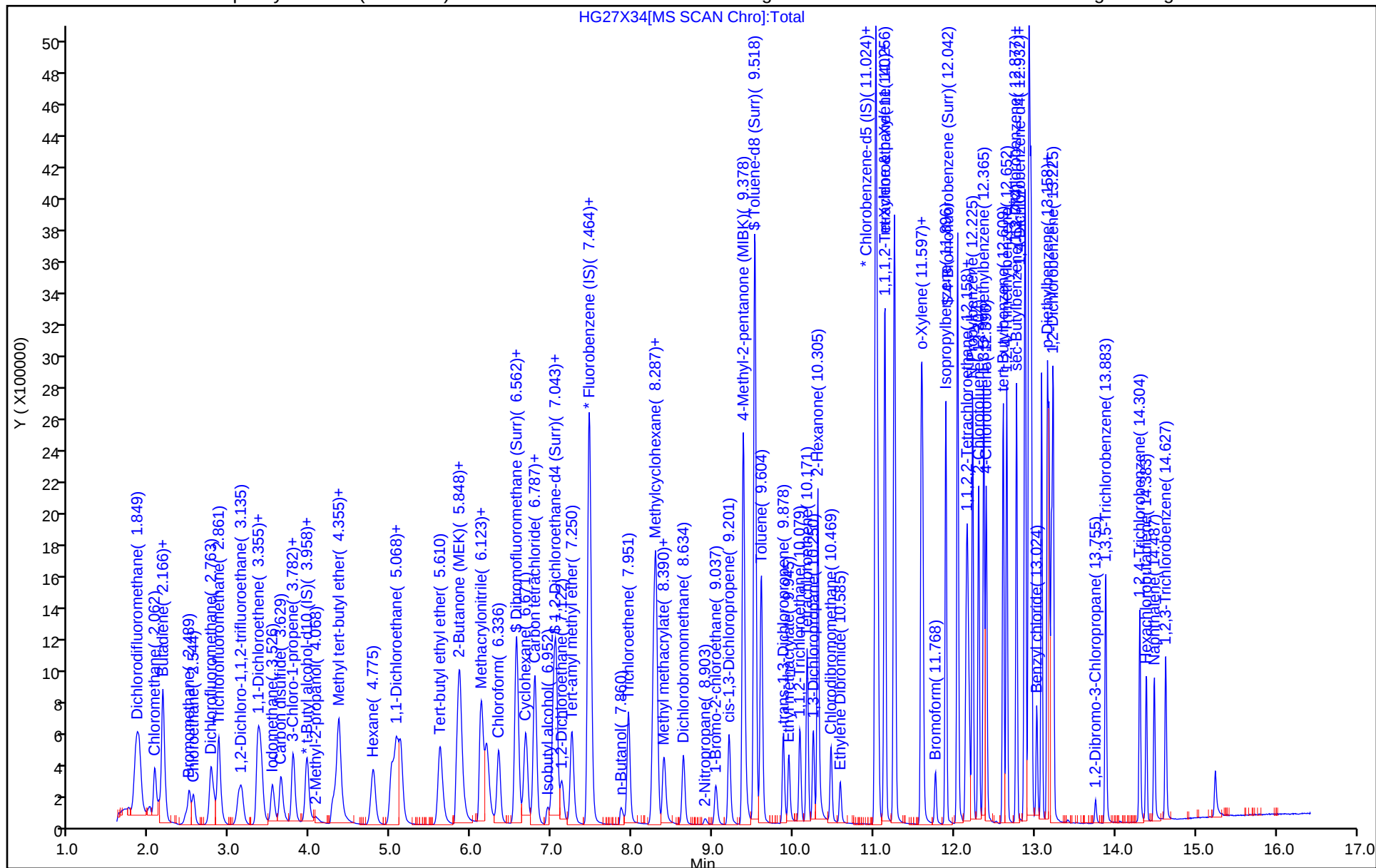
ALS Bottle#: 4

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\20240827-123379.b\HG27X34.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 27-Aug-2024 21:59:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0123379-005
Misc. Info.: LCSD
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 27-Aug-2024 23:06:44 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1620

First Level Reviewer: JS6E

Date: 27-Aug-2024 23:02:44

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.65	96.48
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.17	91.73
\$ 83 Toluene-d8 (Surr)	10.0	10.5	104.62
\$ 126 4-Bromofluorobenzene (Surr)	10.0	10.1	101.10

Eurofins Lancaster Laboratories Environment Testing, LLC

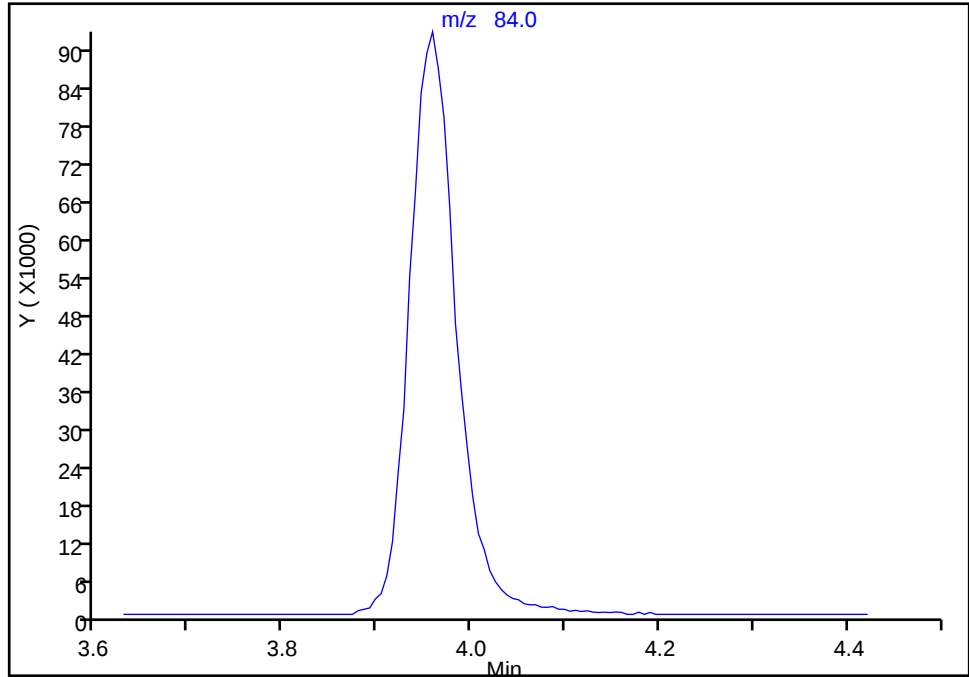
Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X34.D
Injection Date: 27-Aug-2024 21:59:30 Instrument ID: 19094
Lims ID: LCSD
Client ID:
Operator ID: gaw91131 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

27 Methylene Chloride, CAS: 75-09-2

Signal: 1

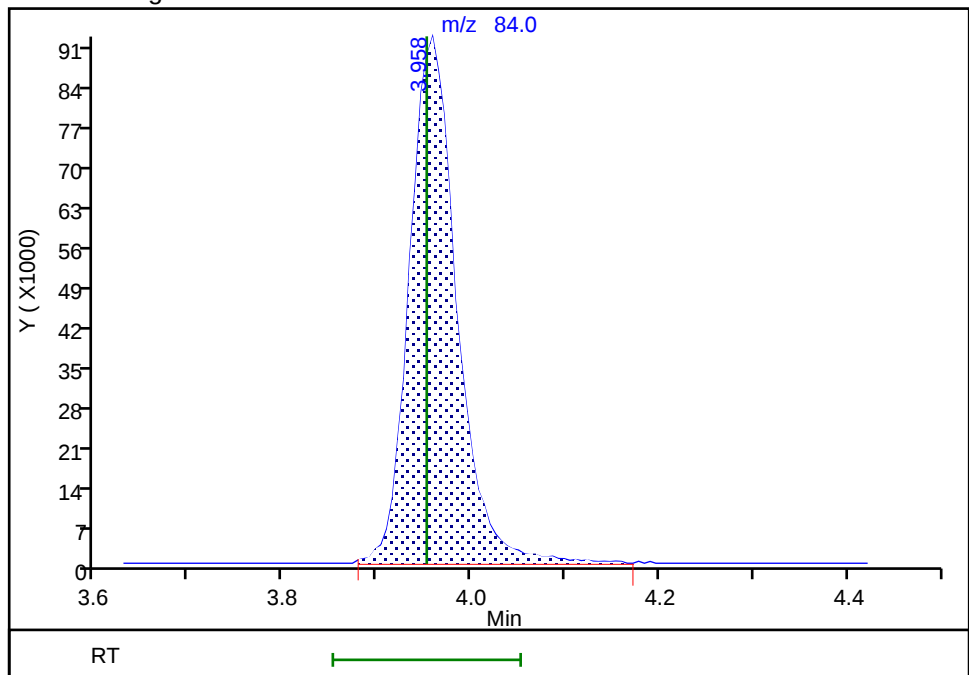
Not Detected
Expected RT: 3.95

Processing Integration Results



RT: 3.96
Area: 324066
Amount: 4.379219
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 27-Aug-2024 23:02:15 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-6 MS

Matrix: Water

Lab File ID: HG27X45.D

Analysis Method: 8260D

Date Collected: 08/20/2024 11:50

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.53		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.45		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	4.42		0.50	0.10
79-00-5	1,1,2-Trichloroethane	4.33		0.50	0.080
75-34-3	1,1-Dichloroethane	5.29		0.50	0.10
75-35-4	1,1-Dichloroethene	5.75		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	4.25		0.50	0.080
107-06-2	1,2-Dichloroethane	4.39		0.50	0.070
78-87-5	1,2-Dichloropropane	5.04		0.50	0.10
78-93-3	2-Butanone (MEK)	60.4		5.0	1.0
591-78-6	2-Hexanone	59.5		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	58.6		5.0	1.0
67-64-1	Acetone	53.3		5.0	1.5
71-43-2	Benzene	4.90		0.50	0.10
74-97-5	Bromochloromethane	4.42		0.50	0.080
75-27-4	Bromodichloromethane	4.54		0.50	0.080
75-25-2	Bromoform	3.84		1.0	0.30
74-83-9	Bromomethane	5.23		0.50	0.10
75-15-0	Carbon disulfide	5.57		1.0	0.10
56-23-5	Carbon tetrachloride	5.23		0.50	0.10
108-90-7	Chlorobenzene	4.66		0.50	0.070
75-00-3	Chloroethane	5.67		0.50	0.10
67-66-3	Chloroform	4.95		0.50	0.090
74-87-3	Chloromethane	5.94		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	5.76		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.26		0.50	0.10
124-48-1	Dibromochloromethane	4.34		0.50	0.080
100-41-4	Ethylbenzene	4.86		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.32		0.50	0.080
75-09-2	Methylene Chloride	4.66		0.50	0.20
100-42-5	Styrene	4.70		0.50	0.070
127-18-4	Tetrachloroethene	9.48		0.50	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-15-0/1-0 MS MS Lab Sample ID: 410-185105-6 MS

Matrix: Water Lab File ID: HG27X45.D

Analysis Method: 8260D Date Collected: 08/20/2024 11:50

Sample wt/vol: 25 (mL) Date Analyzed: 08/28/2024 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.: 545038 Units: ug/L

Preparation Batch No.: _____ Instrument ID: Agilent GC/MS - HP30

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	4.85		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	5.03		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	4.32		0.50	0.080
79-01-6	Trichloroethene	5.63		0.50	0.080
75-01-4	Vinyl chloride	6.01		0.50	0.10
1330-20-7	Xylenes, Total	14.4		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	105		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X45.D
 Lims ID: 410-185105-A-6 MS
 Client ID: HD-COD-SW-15-0/1-0 MS
 Sample Type: MS
 Inject. Date: 28-Aug-2024 01:47:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0123379-016
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Aug-2024 00:06:17 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 13:16:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.873	1.879	-0.006	99	456156	5.00	5.63	
5 Chloromethane	50	2.056	2.062	-0.006	99	600597	5.00	5.94	
7 Butadiene	39	2.154	2.160	-0.006	91	700630	5.00	8.09	
6 Vinyl chloride	62	2.166	2.172	-0.006	98	556563	5.00	6.01	
9 Bromomethane	94	2.477	2.489	-0.012	91	339914	5.00	5.23	
10 Chloroethane	64	2.538	2.544	-0.006	100	307786	5.00	5.67	
11 Dichlorofluoromethane	67	2.757	2.763	-0.006	97	693390	5.00	4.64	
12 Trichlorofluoromethane	101	2.849	2.855	-0.006	96	576072	5.00	5.16	
15 1,2-Dichloro-1,1,2-trifluoroethane	67	3.123	3.129	-0.006	94	451329	5.00	5.45	
17 1,1-Dichloroethene	96	3.336	3.343	-0.006	97	330260	5.00	5.75	
19 Acetone	43	3.361	3.361	0.000	100	431162	62.6	53.3	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.379	3.385	-0.006	93	318481	5.00	5.64	
21 Iodomethane	142	3.519	3.525	-0.006	100	511689	5.00	4.49	
23 Carbon disulfide	76	3.623	3.629	-0.006	99	911533	5.00	5.57	
24 Methyl acetate	43	3.757	3.763	-0.006	39	112425	5.00	5.13	
26 3-Chloro-1-propene	41	3.775	3.781	-0.006	92	500171	5.00	5.00	
* 28 t-Butyl alcohol-d10 (IS)	65	3.958	3.952	0.006	99	152038	50.0	50.0	
27 Methylene Chloride	84	3.946	3.952	-0.006	94	333733	5.00	4.66	
29 2-Methyl-2-propanol	59	4.068	4.074	-0.006	98	109514	50.0	49.2	
31 Acrylonitrile	53	4.269	4.269	0.000	99	251848	25.0	23.0	
32 Methyl tert-butyl ether	73	4.330	4.336	-0.006	96	681184	5.00	4.32	
33 trans-1,2-Dichloroethene	96	4.348	4.355	-0.006	98	337796	5.00	5.03	
34 Hexane	57	4.769	4.775	-0.006	93	475188	5.00	5.99	
36 1,1-Dichloroethane	63	5.001	5.007	-0.006	96	678744	5.00	5.29	
37 Isopropyl ether	45	5.068	5.068	0.000	96	1008167	5.00	4.76	
38 2-Chloro-1,3-butadiene	53	5.117	5.123	-0.006	91	495528	5.00	4.88	
40 Tert-butyl ethyl ether	59	5.604	5.610	-0.006	98	902827	5.00	4.59	
41 2-Butanone (MEK)	43	5.818	5.818	0.000	100	806981	62.6	60.4	
42 cis-1,2-Dichloroethene	96	5.842	5.848	-0.006	83	440456	5.00	5.76	
43 2,2-Dichloropropane	77	5.860	5.866	-0.006	85	559895	5.00	5.25	
44 Propionitrile	54	5.915	5.903	0.012	98	106599	37.5	29.7	
47 Methacrylonitrile	67	6.123	6.116	0.006	91	534606	37.5	34.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
48 Chlorobromomethane	128	6.183	6.183	0.000	97	142704	5.00	4.42	
49 Tetrahydrofuran	71	6.202	6.208	-0.006	79	94785	25.0	24.1	
50 Chloroform	83	6.336	6.336	0.000	94	630588	5.00	4.95	
\$ 52 Dibromofluoromethane (Surr)	113	6.555	6.555	0.000	94	757071	10.0	9.71	
53 1,1,1-Trichloroethane	97	6.568	6.567	0.001	98	592418	5.00	5.45	
54 Cyclohexane	56	6.671	6.677	-0.006	91	610863	5.00	5.68	
56 Carbon tetrachloride	117	6.781	6.787	-0.006	95	494888	5.00	5.23	
55 1,1-Dichloropropene	75	6.787	6.787	0.000	96	506282	5.00	5.24	
57 Isobutyl alcohol	41	6.946	6.939	0.007	93	86986	125.1	121.6	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.013	0.000	85	149708	10.0	9.40	
59 Benzene	78	7.049	7.049	0.000	97	1435084	5.00	4.90	
60 1,2-Dichloroethane	62	7.122	7.122	0.000	97	338621	5.00	4.39	
63 Tert-amyl methyl ether	73	7.244	7.250	-0.006	98	742148	5.00	4.27	
* 64 Fluorobenzene (IS)	96	7.458	7.464	-0.006	98	3183048	10.0	10.0	
65 n-Heptane	43	7.476	7.482	-0.006	93	450461	5.00	5.56	
67 n-Butanol	56	7.866	7.842	0.024	88	104748	250.2	195.6	
68 Trichloroethene	95	7.945	7.951	-0.006	98	434802	5.00	5.63	
69 Methylcyclohexane	83	8.256	8.262	-0.006	93	597517	5.00	5.46	
70 1,2-Dichloropropane	63	8.281	8.281	0.000	97	373355	5.00	5.04	
71 2-ethoxy-2-methyl butane	87	8.293	8.299	-0.006	91	479877	5.00	4.41	
72 Methyl methacrylate	69	8.378	8.378	0.000	91	123425	5.00	4.29	
73 1,4-Dioxane	88	8.396	8.390	0.006	29	12952	125.1	114.8	
74 Dibromomethane	93	8.396	8.390	0.006	97	148365	5.00	4.31	
76 Dichlorobromomethane	83	8.628	8.634	-0.006	99	406513	5.00	4.54	
77 2-Nitropropane	41	8.909	8.902	0.007	97	31211	5.00	3.32	
79 1-Bromo-2-chloroethane	63	9.030	9.037	-0.007	98	345789	5.00	5.31	
80 cis-1,3-Dichloropropene	75	9.201	9.201	0.000	96	464942	5.00	4.26	
82 4-Methyl-2-pentanone (MIBK)	43	9.378	9.378	0.000	97	2190460	62.6	58.6	
\$ 83 Toluene-d8 (Surr)	98	9.518	9.524	-0.006	94	3183320	10.0	10.5	
84 Toluene	92	9.597	9.603	-0.006	98	896241	5.00	4.85	
85 trans-1,3-Dichloropropene	75	9.872	9.872	0.000	93	372255	5.00	4.32	
104 Ethyl methacrylate	69	9.945	9.945	0.000	89	265236	5.00	4.26	
106 1,1,2-Trichloroethane	97	10.079	10.079	0.000	90	212392	5.00	4.33	
107 Tetrachloroethene	166	10.170	10.170	0.000	98	813119	5.00	9.48	
108 1,3-Dichloropropane	76	10.250	10.250	0.000	90	386272	5.00	4.63	
109 2-Hexanone	43	10.305	10.305	0.000	97	1471050	62.6	59.5	
111 Chlorodibromomethane	129	10.469	10.469	0.000	89	262945	5.00	4.34	
112 Ethylene Dibromide	107	10.585	10.585	0.000	99	193853	5.00	4.25	
* 113 Chlorobenzene-d5 (IS)	117	11.024	11.024	0.000	86	2335567	10.0	10.0	
114 1-Chlorohexane	91	11.036	11.036	0.000	98	482061	5.00	4.68	
115 Chlorobenzene	112	11.048	11.048	0.000	94	944174	5.00	4.66	
116 1,1,1,2-Tetrachloroethane	131	11.134	11.134	0.000	95	321125	5.00	4.53	
117 Ethylbenzene	91	11.140	11.140	0.000	99	1739969	5.00	4.86	
119 m-Xylene & p-Xylene	106	11.256	11.256	0.000	100	1318880	10.0	9.70	
120 o-Xylene	106	11.591	11.591	0.000	97	625736	5.00	4.66	
121 Styrene	104	11.609	11.609	0.000	95	978434	5.00	4.70	
122 Bromoform	173	11.768	11.768	0.000	96	146251	5.00	3.84	
123 Isopropylbenzene	105	11.896	11.896	0.000	96	1683714	5.00	5.20	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	90	1141260	10.0	10.1	
127 1,1,2,2-Tetrachloroethane	83	12.140	12.140	0.000	94	258130	5.00	4.42	
128 Bromobenzene	156	12.158	12.158	0.000	93	367476	5.00	4.33	
129 trans-1,4-Dichloro-2-butene	53	12.170	12.170	0.000	91	111853	25.0	7.47	

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	12.188	12.188	0.000	85	64104	5.00	4.24	
131 N-Propylbenzene	91	12.225	12.225	0.000	99	1994808	5.00	4.91	
132 2-Chlorotoluene	126	12.304	12.304	0.000	96	380659	5.00	4.58	
133 1,3,5-Trimethylbenzene	105	12.365	12.365	0.000	94	1371636	5.00	4.80	
134 4-Chlorotoluene	126	12.396	12.396	0.000	98	388964	5.00	4.62	
135 tert-Butylbenzene	134	12.609	12.609	0.000	94	282530	5.00	4.43	
137 1,2,4-Trimethylbenzene	105	12.652	12.652	0.000	98	1386920	5.00	4.85	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	1740778	5.00	4.94	
139 1,3-Dichlorobenzene	146	12.871	12.871	0.000	98	714780	5.00	4.45	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	1480808	5.00	4.87	
* 141 1,4-Dichlorobenzene-d4	152	12.926	12.926	0.000	95	1289875	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.944	12.944	0.000	94	726960	5.00	4.38	
143 1,2,3-Trimethylbenzene	120	12.957	12.956	0.001	99	584434	5.00	4.52	
144 Benzyl chloride	126	13.024	13.024	0.000	99	94449	5.00	4.21	
145 p-Diethylbenzene	119	13.158	13.158	0.000	94	858387	5.00	4.84	
146 n-Butylbenzene	92	13.176	13.176	0.000	97	681211	5.00	4.90	
147 1,2-Dichlorobenzene	146	13.206	13.206	0.000	98	650774	5.00	4.44	
149 1,2-Dibromo-3-Chloropropane	155	13.755	13.755	0.000	83	29715	5.00	3.82	
150 1,3,5-Trichlorobenzene	180	13.883	13.883	0.000	97	490767	5.00	4.47	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	388357	5.00	4.53	
152 Hexachlorobutadiene	225	14.389	14.389	0.000	95	179416	5.00	5.54	
153 Naphthalene	128	14.487	14.481	0.006	97	639409	5.00	4.44	
154 1,2,3-Trichlorobenzene	180	14.627	14.627	0.000	95	301427	5.00	4.37	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MSV_LLcentISS_00013	Amount Added: 5.00	Units: uL	Run Reagent
MSV_LCS_VOC#1_00182	Amount Added: 5.38	Units: uL	
MSV_QC_Gas826_00216	Amount Added: 5.38	Units: uL	

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X45.D

Operator ID: qaw91131

Worklist Smp#: 16

Purge Vol: 25.000 mL

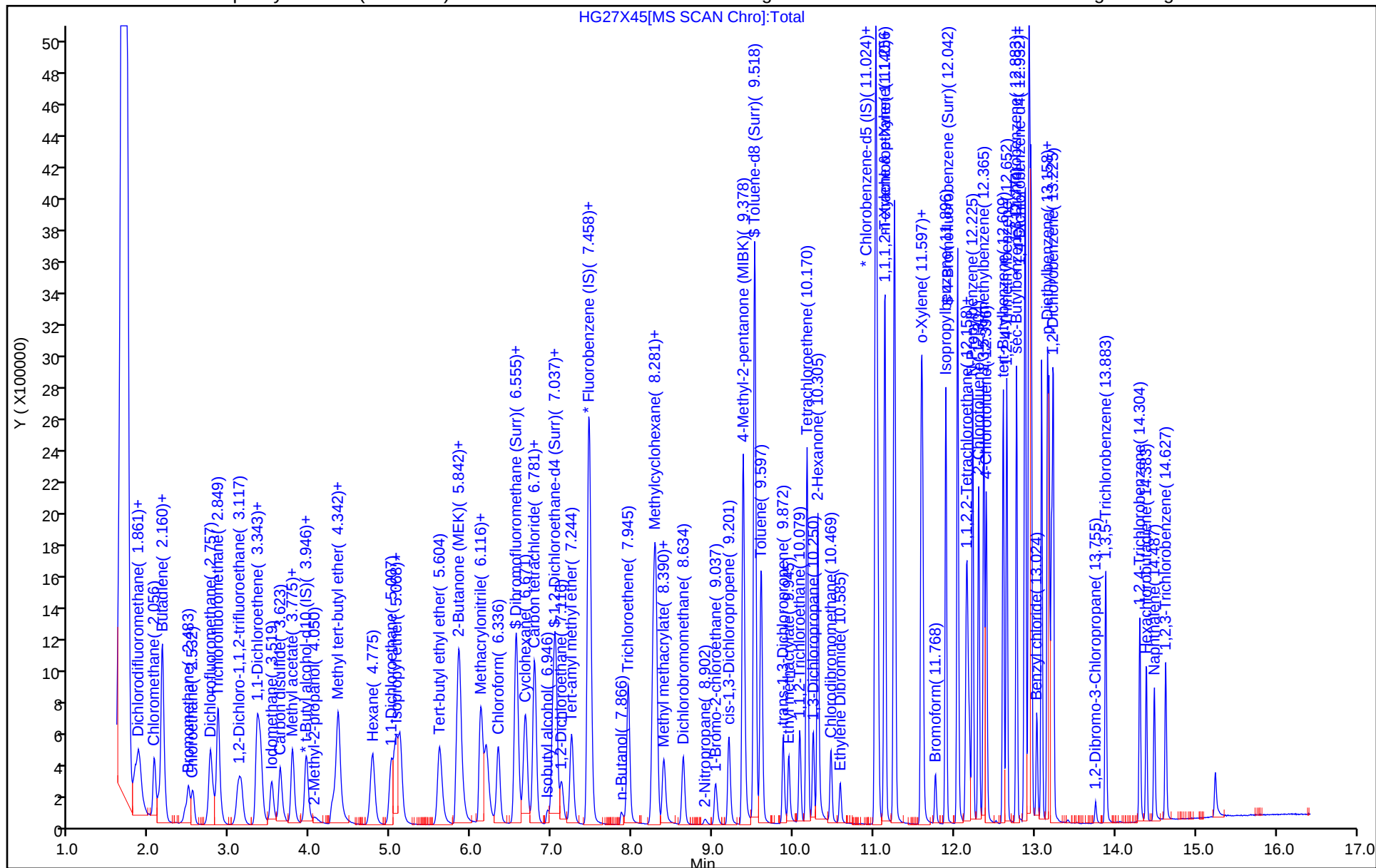
Dil. Factor: 1.0000

ALS Bottle#: 15

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\20240827-123379.b\HG27X45.D
Lims ID: 410-185105-A-6 MS
Client ID: HD-COD-SW-15-0/1-0 MS
Sample Type: MS
Inject. Date: 28-Aug-2024 01:47:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0123379-016
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Aug-2024 00:06:17 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 13:16:05

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.71	97.12
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.40	94.02
\$ 83 Toluene-d8 (Surr)	10.0	10.5	104.80
\$ 126 4-Bromofluorobenzene (Surr)	10.0	10.1	100.62

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-185105-1

SDG No.:

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

Lab Sample ID: 410-185105-6 MSD

Matrix: Water

Lab File ID: HG27X46.D

Analysis Method: 8260D

Date Collected: 08/20/2024 11:50

Sample wt/vol: 25 (mL)

Date Analyzed: 08/28/2024 02:07

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.: 545038

Units: ug/L

Preparation Batch No.:

Instrument ID: Agilent GC/MS - HP30

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.50		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.36		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	4.39		0.50	0.10
79-00-5	1,1,2-Trichloroethane	4.36		0.50	0.080
75-34-3	1,1-Dichloroethane	5.31		0.50	0.10
75-35-4	1,1-Dichloroethene	5.66		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	4.30		0.50	0.080
107-06-2	1,2-Dichloroethane	4.44		0.50	0.070
78-87-5	1,2-Dichloropropane	4.93		0.50	0.10
78-93-3	2-Butanone (MEK)	59.7		5.0	1.0
591-78-6	2-Hexanone	62.1		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	60.9		5.0	1.0
67-64-1	Acetone	53.1		5.0	1.5
71-43-2	Benzene	4.85		0.50	0.10
74-97-5	Bromochloromethane	4.39		0.50	0.080
75-27-4	Bromodichloromethane	4.48		0.50	0.080
75-25-2	Bromoform	3.90		1.0	0.30
74-83-9	Bromomethane	5.03		0.50	0.10
75-15-0	Carbon disulfide	5.50		1.0	0.10
56-23-5	Carbon tetrachloride	5.08		0.50	0.10
108-90-7	Chlorobenzene	4.58		0.50	0.070
75-00-3	Chloroethane	5.55		0.50	0.10
67-66-3	Chloroform	4.83		0.50	0.090
74-87-3	Chloromethane	5.55		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	5.65		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.24		0.50	0.10
124-48-1	Dibromochloromethane	4.31		0.50	0.080
100-41-4	Ethylbenzene	4.78		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.23		0.50	0.080
75-09-2	Methylene Chloride	4.63		0.50	0.20
100-42-5	Styrene	4.68		0.50	0.070

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-15-0/1-0 MSD Lab Sample ID: 410-185105-6 MSD
MSD

Matrix: Water Lab File ID: HG27X46.D

Analysis Method: 8260D Date Collected: 08/20/2024 11:50

Sample wt/vol: 25 (mL) Date Analyzed: 08/28/2024 02:07

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.: 545038 Units: ug/L

Preparation Batch No.: _____ Instrument ID: Agilent GC/MS - HP30

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	9.41		0.50	0.20
108-88-3	Toluene	4.80		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	5.01		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	4.37		0.50	0.080
79-01-6	Trichloroethene	5.58		0.50	0.080
75-01-4	Vinyl chloride	5.89		0.50	0.10
1330-20-7	Xylenes, Total	14.2		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X46.D
 Lims ID: 410-185105-A-6 MSD
 Client ID: HD-COD-SW-15-0/1-0 MSD
 Sample Type: MSD
 Inject. Date: 28-Aug-2024 02:07:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0123379-017
 Operator ID: gaw91131 Instrument ID: 19094
 Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 28-Aug-2024 00:48:04 Calib Date: 17-Jul-2024 19:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 14:10:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.867	1.879	-0.012	99	418163	5.00	5.17	
5 Chloromethane	50	2.050	2.062	-0.012	99	559706	5.00	5.55	
7 Butadiene	39	2.154	2.160	-0.006	91	665269	5.00	7.70	
6 Vinyl chloride	62	2.166	2.172	-0.006	98	544644	5.00	5.89	
9 Bromomethane	94	2.477	2.489	-0.012	91	325708	5.00	5.03	
10 Chloroethane	64	2.532	2.544	-0.012	100	300791	5.00	5.55	
11 Dichlorofluoromethane	67	2.751	2.763	-0.012	97	680065	5.00	4.56	
12 Trichlorofluoromethane	101	2.843	2.855	-0.012	54	561825	5.00	5.05	
15 1,2-Dichloro-1,1,2-trifluoroethane	67	3.117	3.129	-0.012	94	445745	5.00	5.39	
17 1,1-Dichloroethene	96	3.330	3.343	-0.012	97	324584	5.00	5.66	
19 Acetone	43	3.367	3.361	0.006	100	417603	62.6	53.1	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.373	3.385	-0.012	93	308213	5.00	5.47	
21 Iodomethane	142	3.513	3.525	-0.012	99	506368	5.00	4.45	
23 Carbon disulfide	76	3.617	3.629	-0.012	99	897972	5.00	5.50	
24 Methyl acetate	43	3.757	3.763	-0.006	37	119892	5.00	5.63	
26 3-Chloro-1-propene	41	3.769	3.781	-0.012	93	493924	5.00	4.95	
* 28 t-Butyl alcohol-d10 (IS)	65	3.952	3.952	0.000	99	147710	50.0	50.0	
27 Methylene Chloride	84	3.940	3.952	-0.012	94	330751	5.00	4.63	
29 2-Methyl-2-propanol	59	4.074	4.074	0.000	100	94841	50.0	43.9	
31 Acrylonitrile	53	4.269	4.269	0.000	98	231376	25.0	21.7	
32 Methyl tert-butyl ether	73	4.330	4.336	-0.006	95	666306	5.00	4.23	
33 trans-1,2-Dichloroethene	96	4.342	4.355	-0.012	98	335822	5.00	5.01	
34 Hexane	57	4.769	4.775	-0.006	92	469605	5.00	5.94	
36 1,1-Dichloroethane	63	5.001	5.007	-0.006	96	679935	5.00	5.31	
37 Isopropyl ether	45	5.062	5.068	-0.006	95	990536	5.00	4.69	
38 2-Chloro-1,3-butadiene	53	5.111	5.123	-0.012	91	494112	5.00	4.88	
40 Tert-butyl ethyl ether	59	5.598	5.610	-0.012	98	889195	5.00	4.53	
41 2-Butanone (MEK)	43	5.818	5.818	0.000	100	774417	62.6	59.7	
42 cis-1,2-Dichloroethene	96	5.842	5.848	-0.006	83	431235	5.00	5.65	
43 2,2-Dichloropropane	77	5.860	5.866	-0.006	86	548263	5.00	5.16	
44 Propionitrile	54	5.915	5.903	0.012	98	83134	37.5	24.6	
47 Methacrylonitrile	67	6.116	6.116	0.000	92	521336	37.5	35.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
48 Chlorobromomethane	128	6.177	6.183	-0.006	96	141619	5.00	4.39	
49 Tetrahydrofuran	71	6.208	6.208	0.000	79	88121	25.0	23.1	
50 Chloroform	83	6.330	6.336	-0.006	94	613876	5.00	4.83	
\$ 52 Dibromofluoromethane (Surr)	113	6.549	6.555	-0.006	93	752666	10.0	9.68	
53 1,1,1-Trichloroethane	97	6.562	6.567	-0.005	98	580686	5.00	5.36	
54 Cyclohexane	56	6.665	6.677	-0.012	92	592237	5.00	5.51	
56 Carbon tetrachloride	117	6.781	6.787	-0.006	86	479796	5.00	5.08	
55 1,1-Dichloropropene	75	6.781	6.787	-0.006	96	494115	5.00	5.12	
57 Isobutyl alcohol	41	6.958	6.939	0.019	97	67476	125.1	97.1	
\$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.013	0.000	95	149895	10.0	9.44	
59 Benzene	78	7.043	7.049	-0.006	97	1418417	5.00	4.85	
60 1,2-Dichloroethane	62	7.116	7.122	-0.006	97	341339	5.00	4.44	
63 Tert-amyl methyl ether	73	7.244	7.250	-0.006	99	738577	5.00	4.26	
* 64 Fluorobenzene (IS)	96	7.458	7.464	-0.006	98	3175827	10.0	10.0	
65 n-Heptane	43	7.476	7.482	-0.006	93	457457	5.00	5.66	
67 n-Butanol	56	7.872	7.842	0.030	92	100086	250.2	193.0	
68 Trichloroethene	95	7.945	7.951	-0.006	99	429649	5.00	5.58	
69 Methylcyclohexane	83	8.256	8.262	-0.006	93	587089	5.00	5.38	
70 1,2-Dichloropropane	63	8.281	8.281	0.000	98	364143	5.00	4.93	
71 2-ethoxy-2-methyl butane	87	8.293	8.299	-0.006	92	480630	5.00	4.43	
72 Methyl methacrylate	69	8.378	8.378	0.000	91	125605	5.00	4.50	
73 1,4-Dioxane	88	8.403	8.390	0.013	28	12130	125.1	111.5	
74 Dibromomethane	93	8.397	8.390	0.007	97	147471	5.00	4.29	
76 Dichlorobromomethane	83	8.628	8.634	-0.006	99	400602	5.00	4.48	
77 2-Nitropropane	41	8.903	8.902	0.001	98	34332	5.00	3.75	
79 1-Bromo-2-chloroethane	63	9.031	9.037	-0.006	99	342791	5.00	5.27	
80 cis-1,3-Dichloropropene	75	9.201	9.201	0.000	96	461663	5.00	4.24	
82 4-Methyl-2-pentanone (MIBK)	43	9.378	9.378	0.000	97	2211028	62.6	60.9	
\$ 83 Toluene-d8 (Surr)	98	9.518	9.524	-0.006	93	3152375	10.0	10.4	
84 Toluene	92	9.598	9.603	-0.005	98	881185	5.00	4.80	
85 trans-1,3-Dichloropropene	75	9.872	9.872	0.000	93	374208	5.00	4.37	
104 Ethyl methacrylate	69	9.945	9.945	0.000	89	272482	5.00	4.40	
106 1,1,2-Trichloroethane	97	10.079	10.079	0.000	90	212843	5.00	4.36	
107 Tetrachloroethene	166	10.171	10.170	0.001	98	803580	5.00	9.41	
108 1,3-Dichloropropane	76	10.250	10.250	0.000	90	383253	5.00	4.62	
109 2-Hexanone	43	10.305	10.305	0.000	97	1490711	62.6	62.1	
111 Chlorodibromomethane	129	10.469	10.469	0.000	90	259793	5.00	4.31	
112 Ethylene Dibromide	107	10.579	10.585	-0.006	97	195410	5.00	4.30	
* 113 Chlorobenzene-d5 (IS)	117	11.018	11.024	-0.006	87	2324277	10.0	10.0	
114 1-Chlorohexane	91	11.036	11.036	0.000	98	473141	5.00	4.62	
115 Chlorobenzene	112	11.048	11.048	0.000	94	924897	5.00	4.58	
116 1,1,1,2-Tetrachloroethane	131	11.134	11.134	0.000	96	317294	5.00	4.50	
117 Ethylbenzene	91	11.140	11.140	0.000	99	1703434	5.00	4.78	
119 m-Xylene & p-Xylene	106	11.256	11.256	0.000	100	1297079	10.0	9.58	
120 o-Xylene	106	11.591	11.591	0.000	97	623054	5.00	4.66	
121 Styrene	104	11.609	11.609	0.000	95	969373	5.00	4.68	
122 Bromoform	173	11.768	11.768	0.000	96	147475	5.00	3.90	
123 Isopropylbenzene	105	11.896	11.896	0.000	96	1656208	5.00	5.14	
\$ 126 4-Bromofluorobenzene (Surr)	95	12.042	12.042	0.000	90	1145073	10.0	10.1	
127 1,1,2,2-Tetrachloroethane	83	12.140	12.140	0.000	94	255860	5.00	4.39	
128 Bromobenzene	156	12.158	12.158	0.000	94	361071	5.00	4.26	
129 trans-1,4-Dichloro-2-butene	53	12.170	12.170	0.000	91	140274	25.0	9.64	

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	12.188	12.188	0.000	82	64514	5.00	4.28	
131 N-Propylbenzene	91	12.225	12.225	0.000	99	1967680	5.00	4.85	
132 2-Chlorotoluene	126	12.304	12.304	0.000	96	372407	5.00	4.48	
133 1,3,5-Trimethylbenzene	105	12.365	12.365	0.000	94	1323667	5.00	4.64	
134 4-Chlorotoluene	126	12.396	12.396	0.000	98	375525	5.00	4.47	
135 tert-Butylbenzene	134	12.609	12.609	0.000	94	282537	5.00	4.43	
137 1,2,4-Trimethylbenzene	105	12.652	12.652	0.000	98	1353222	5.00	4.74	
138 sec-Butylbenzene	105	12.774	12.774	0.000	94	1717324	5.00	4.88	
139 1,3-Dichlorobenzene	146	12.871	12.871	0.000	98	703629	5.00	4.39	
140 4-Isopropyltoluene	119	12.883	12.883	0.000	97	1433411	5.00	4.72	
* 141 1,4-Dichlorobenzene-d4	152	12.932	12.926	0.006	94	1288127	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.944	12.944	0.000	94	719575	5.00	4.34	
143 1,2,3-Trimethylbenzene	120	12.957	12.956	0.001	99	568587	5.00	4.40	
144 Benzyl chloride	126	13.024	13.024	0.000	98	94849	5.00	4.24	
145 p-Diethylbenzene	119	13.158	13.158	0.000	93	827427	5.00	4.67	
146 n-Butylbenzene	92	13.176	13.176	0.000	98	668265	5.00	4.81	
147 1,2-Dichlorobenzene	146	13.207	13.206	0.001	98	646477	5.00	4.41	
149 1,2-Dibromo-3-Chloropropane	155	13.755	13.755	0.000	86	28686	5.00	3.69	
150 1,3,5-Trichlorobenzene	180	13.883	13.883	0.000	97	482985	5.00	4.41	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	376070	5.00	4.39	
152 Hexachlorobutadiene	225	14.389	14.389	0.000	96	166588	5.00	5.15	
153 Naphthalene	128	14.487	14.481	0.006	97	645523	5.00	4.49	
154 1,2,3-Trichlorobenzene	180	14.627	14.627	0.000	95	303507	5.00	4.40	
157 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MSV_LLcentISS_00013	Amount Added: 5.00	Units: uL	Run Reagent
MSV_LCS_VOC#1_00182	Amount Added: 5.38	Units: uL	
MSV_QC_Gas826_00216	Amount Added: 5.38	Units: uL	

Report Date: 28-Aug-2024 14:10:11

Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\HG27X46.D

Injection Date: 28-Aug-2024 02:07:30

Instrument ID: 19094

Operator ID: gaw91131

Lims ID: 410-185105-A-6 MSD

Worklist Smp#: 17

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

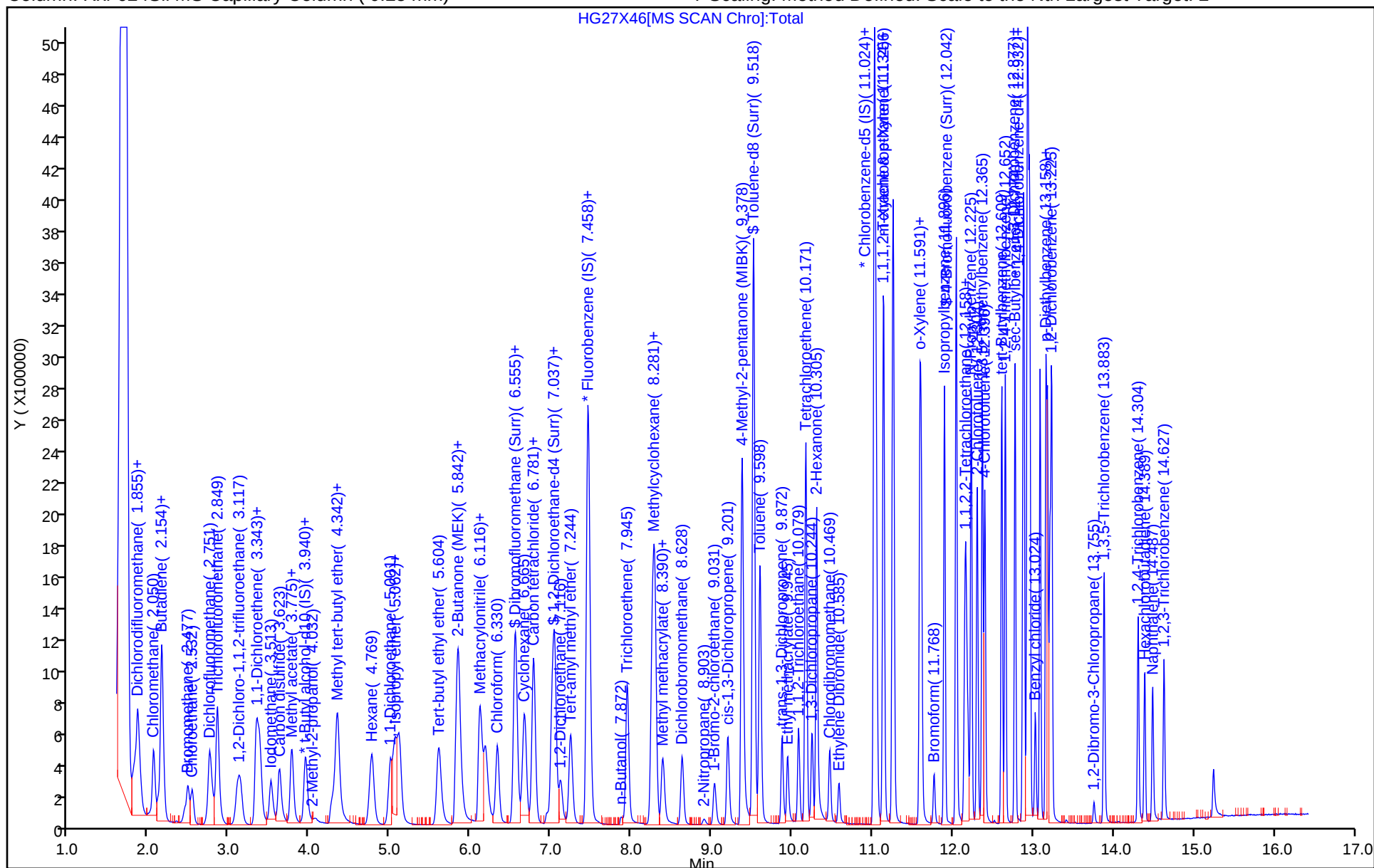
ALS Bottle#: 16

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\20240827-123379.b\HG27X46.D
Lims ID: 410-185105-A-6 MSD
Client ID: HD-COD-SW-15-0/1-0 MSD
Sample Type: MSD
Inject. Date: 28-Aug-2024 02:07:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0123379-017
Operator ID: gaw91131 Instrument ID: 19094
Method: \\chromfs\Lancaster\ChromData\19094\20240827-123379.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Aug-2024 00:48:04 Calib Date: 17-Jul-2024 19:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20240717-119602.b\HL17X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1683

First Level Reviewer: N9NA

Date: 28-Aug-2024 14:10:10

Compound	Amount Added	Amount Recovered	% Rec.
\$ 52 Dibromofluoromethane (Surr)	10.0	9.68	96.78
\$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	9.44	94.36
\$ 83 Toluene-d8 (Surr)	10.0	10.4	104.29
\$ 126 4-Bromofluorobenzene (Surr)	10.0	10.1	101.44

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Instrument ID: 19094

Start Date: 07/17/2024 13:29

Analysis Batch Number: 529291

End Date: 07/17/2024 21:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-529291/1		07/17/2024 13:29	1	HL17T01.D	R-624Si1MS 30m 0.25 (mm)
IC 410-529291/3		07/17/2024 14:03	1	HL17X02.D	R-624Si1MS 30m 0.25 (mm)
IC 410-529291/4		07/17/2024 14:24	1	HL17X03.D	R-624Si1MS 30m 0.25 (mm)
IC 410-529291/5		07/17/2024 14:44	1	HL17X04.D	R-624Si1MS 30m 0.25 (mm)
IC 410-529291/6		07/17/2024 15:05	1	HL17X05.D	R-624Si1MS 30m 0.25 (mm)
IC 410-529291/7		07/17/2024 15:26	1	HL17X06.D	R-624Si1MS 30m 0.25 (mm)
IC 410-529291/8		07/17/2024 15:46	1	HL17X07.D	R-624Si1MS 30m 0.25 (mm)
CCV 410-529291/1008		07/17/2024 15:46	1		R-624Si1MS 30m 0.25 (mm)
IC 410-529291/9		07/17/2024 16:07	1	HL17X08.D	R-624Si1MS 30m 0.25 (mm)
ICV 410-529291/11		07/17/2024 16:49	1		R-624Si1MS 30m 0.25 (mm)
IC 410-529291/13		07/17/2024 17:30	1	HL17X12.D	R-624Si1MS 30m 0.25 (mm)
IC 410-529291/14		07/17/2024 17:51	1	HL17X13.D	R-624Si1MS 30m 0.25 (mm)
IC 410-529291/15		07/17/2024 18:12	1	HL17X14.D	R-624Si1MS 30m 0.25 (mm)
IC 410-529291/16		07/17/2024 18:32	1	HL17X15.D	R-624Si1MS 30m 0.25 (mm)
IC 410-529291/17		07/17/2024 18:53	1	HL17X16.D	R-624Si1MS 30m 0.25 (mm)
ICIS 410-529291/18		07/17/2024 19:14	1	HL17X17.D	R-624Si1MS 30m 0.25 (mm)
CCVIS 410-529291/1018		07/17/2024 19:14	1		R-624Si1MS 30m 0.25 (mm)
IC 410-529291/19		07/17/2024 19:35	1	HL17X18.D	R-624Si1MS 30m 0.25 (mm)
ICV 410-529291/21		07/17/2024 20:16	1	HL17X20.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/17/2024 20:58	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		07/17/2024 21:18	1		R-624Si1MS 30m 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-185105-1

SDG No.:

Instrument ID: 19094

Start Date: 08/27/2024 20:38

Analysis Batch Number: 545038

End Date: 08/28/2024 05:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-545038/1		08/27/2024 20:38	1	HG27T31.D	R-624Si1MS 30m 0.25 (mm)
CCVIS 410-545038/3		08/27/2024 21:18	1	HG27X32.D	R-624Si1MS 30m 0.25 (mm)
LCS 410-545038/4		08/27/2024 21:38	1	HG27X33.D	R-624Si1MS 30m 0.25 (mm)
LCSD 410-545038/5		08/27/2024 21:59	1	HG27X34.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		08/27/2024 22:20	1		R-624Si1MS 30m 0.25 (mm)
MB 410-545038/7		08/27/2024 22:40	1	HG27X36.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		08/27/2024 23:01	1		R-624Si1MS 30m 0.25 (mm)
410-185105-14	HD-QC1-0/1-2	08/27/2024 23:22	1	HG27X38.D	R-624Si1MS 30m 0.25 (mm)
410-185105-1	HD-COD-SW-6-0/1-0	08/27/2024 23:43	1	HG27X39.D	R-624Si1MS 30m 0.25 (mm)
410-185105-2	HD-COD-SW-7-0/1-0	08/28/2024 00:04	1	HG27X40.D	R-624Si1MS 30m 0.25 (mm)
410-185105-3	HD-COD-SW-8-0/1-0	08/28/2024 00:24	1	HG27X41.D	R-624Si1MS 30m 0.25 (mm)
410-185105-4	HD-COD-SW-9-0/1-0	08/28/2024 00:45	1	HG27X42.D	R-624Si1MS 30m 0.25 (mm)
410-185105-5	HD-COD-SW-13-0/1-0	08/28/2024 01:05	1	HG27X43.D	R-624Si1MS 30m 0.25 (mm)
410-185105-6	HD-COD-SW-15-0/1-0	08/28/2024 01:26	1	HG27X44.D	R-624Si1MS 30m 0.25 (mm)
410-185105-6 MS	HD-COD-SW-15-0/1-0 MS MS	08/28/2024 01:47	1	HG27X45.D	R-624Si1MS 30m 0.25 (mm)
410-185105-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	08/28/2024 02:07	1	HG27X46.D	R-624Si1MS 30m 0.25 (mm)
410-185105-7	HD-COD-SW-16-0/1-0	08/28/2024 02:28	1	HG27X47.D	R-624Si1MS 30m 0.25 (mm)
410-185105-9	HD-COD-SW-26-0/1-0	08/28/2024 02:49	1	HG27X48.D	R-624Si1MS 30m 0.25 (mm)
410-185105-10	HD-COD-SW-27-0/1-0	08/28/2024 03:10	1	HG27X49.D	R-624Si1MS 30m 0.25 (mm)
410-185105-11	HD-COD-SW-28-0/1-0	08/28/2024 03:31	1	HG27X50.D	R-624Si1MS 30m 0.25 (mm)
410-185105-12	HD-COD-SW-29-0/1-0	08/28/2024 03:52	1	HG27X51.D	R-624Si1MS 30m 0.25 (mm)
410-185105-8	HD-COD-SW-17-0/1-0	08/28/2024 04:12	1	HG27X52.D	R-624Si1MS 30m 0.25 (mm)
410-185105-8 DL	HD-COD-SW-17-0/1-0 DL	08/28/2024 04:33	10	HG27X53.D	R-624Si1MS 30m 0.25 (mm)
410-185105-13	HD-QC1-0/1-1	08/28/2024 04:54	1	HG27X54.D	R-624Si1MS 30m 0.25 (mm)
410-185105-13 DL	HD-QC1-0/1-1 DL	08/28/2024 05:14	10	HG27X55.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		08/28/2024 05:35	5		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		08/28/2024 05:56	50		R-624Si1MS 30m 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1

SDG No.: _____

Batch Number: 529291 Batch Start Date: 07/17/24 13:29 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 00008	MSV_CCV_CYC 00009	MSV_CCV_V5ACE 00038
BFB 410-529291/1		8260D			1 uL	1 uL				
IC 410-529291/3		8260D			25 mL	25 mL	2759		1.6 uL	0.2 uL
IC 410-529291/4		8260D			25 mL	25 mL	2759		4 uL	0.5 uL
IC 410-529291/5		8260D			25 mL	25 mL	2759		8 uL	1 uL
IC 410-529291/6		8260D			25 mL	25 mL	2759		8 uL	1 uL
IC 410-529291/7		8260D			25 mL	25 mL	2759		8 uL	1 uL
IC 410-529291/8		8260D			25 mL	25 mL	2759		8 uL	1 uL
IC 410-529291/9		8260D			25 mL	25 mL	2759		20 uL	2.5 uL
IC 410-529291/13		8260D			25 mL	25 mL	2759			
IC 410-529291/14		8260D			25 mL	25 mL	2759			
IC 410-529291/15		8260D			25 mL	25 mL	2759			
IC 410-529291/16		8260D			25 mL	25 mL	2759			
IC 410-529291/17		8260D			25 mL	25 mL	2759			
ICIS 410-529291/18		8260D			25 mL	25 mL	2759			
IC 410-529291/19		8260D			25 mL	25 mL	2759			
ICV 410-529291/21		8260D			25 mL	25 mL	2759	12.5 uL		

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_DME 00056	MSV_LCS_ACROL 00179	MSV_LCS_EE 00009	MSV_LCS_Penta 00044	MSV_LCS_VOC#1 00176	MSV_LL #1_826 00137
BFB 410-529291/1		8260D								
IC 410-529291/3		8260D			0.2 uL					
IC 410-529291/4		8260D			0.5 uL					
IC 410-529291/5		8260D			1 uL					
IC 410-529291/6		8260D			1 uL					
IC 410-529291/7		8260D			1 uL					
IC 410-529291/8		8260D			1 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1

SDG No.: _____

Batch Number: 529291 Batch Start Date: 07/17/24 13:29 Batch Analyst: Kephart, KaylaBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_DME 00056	MSV_LCS_ACROL 00179	MSV_LCS_EE 00009	MSV_LCS_Penta 00044	MSV_LCS_VOC#1 00176	MSV_LL_#1_826 00137
IC 410-529291/9		8260D			2.5 uL					
IC 410-529291/13		8260D								2 uL
IC 410-529291/14		8260D								2 uL
IC 410-529291/15		8260D								2 uL
IC 410-529291/16		8260D								2 uL
IC 410-529291/17		8260D								5 uL
ICIS 410-529291/18		8260D								10 uL
IC 410-529291/19		8260D								25 uL
ICV 410-529291/21		8260D				12.5 uL	12.5 uL	12.5 uL	12.5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LL_#2_826 00144	MSV_LL_GAS826 00220	MSV_LLcentISO 00008	MSV_LLcentISS 00012	MSV_QC_Gas826 00207	MSV_V_BFB 00017
BFB 410-529291/1		8260D								1 uL
IC 410-529291/3		8260D					5 uL			
IC 410-529291/4		8260D					5 uL			
IC 410-529291/5		8260D					5 uL			
IC 410-529291/6		8260D					5 uL			
IC 410-529291/7		8260D					5 uL			
IC 410-529291/8		8260D					5 uL			
IC 410-529291/9		8260D					5 uL			
IC 410-529291/13		8260D			2 uL	2 uL		5 uL		
IC 410-529291/14		8260D			2 uL	2 uL		5 uL		
IC 410-529291/15		8260D			2 uL	2 uL		5 uL		
IC 410-529291/16		8260D			2 uL	2 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 2 of 4

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1

SDG No.: _____

Batch Number: 529291 Batch Start Date: 07/17/24 13:29 Batch Analyst: Kephart, KaylaBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LL_#2_826 00144	MSV_LL_GAS826 00220	MSV_LLcentISO 00008	MSV_LLcentISS 00012	MSV_QC_Gas826 00207	MSV_V_BFB 00017
IC 410-529291/17		8260D			5 uL	5 uL		5 uL		
ICIS 410-529291/18		8260D			10 uL	10 uL		5 uL		
IC 410-529291/19		8260D			25 uL	25 uL		5 uL		
ICV 410-529291/21		8260D						5 uL	12.5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_V_SMRV4 00072					
BFB 410-529291/1		8260D								
IC 410-529291/3		8260D			1 uL					
IC 410-529291/4		8260D			2.5 uL					
IC 410-529291/5		8260D			5 uL					
IC 410-529291/6		8260D			5 uL					
IC 410-529291/7		8260D			5 uL					
IC 410-529291/8		8260D			5 uL					
IC 410-529291/9		8260D			12.5 uL					
IC 410-529291/13		8260D								
IC 410-529291/14		8260D								
IC 410-529291/15		8260D								
IC 410-529291/16		8260D								
IC 410-529291/17		8260D								
ICIS 410-529291/18		8260D								
IC 410-529291/19		8260D								
ICV 410-529291/21		8260D								

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 3 of 4

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1

SDG No.: _____

Batch Number: 529291 Batch Start Date: 07/17/24 13:29 Batch Analyst: Kephart, KaylaBatch Method: 8260D Batch End Date: _____

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 4 of 4

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1

SDG No.: _____

Batch Number: 545038 Batch Start Date: 08/27/24 20:38 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 410-545038/1		8260D			1 uL	1 uL				
CCVIS 410-545038/3		8260D			25 mL	25 mL				2759
LCS 410-545038/4		8260D			25 mL	25 mL				2759
LCSD 410-545038/5		8260D			25 mL	25 mL				2759
MB 410-545038/7		8260D			25 mL	25 mL				2759
410-185105-A-14	HD-QC1-0/1-2	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-185105-A-1	HD-COD-SW-6-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-185105-A-2	HD-COD-SW-7-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-185105-A-3	HD-COD-SW-8-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-185105-A-4	HD-COD-SW-9-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-185105-A-5	HD-COD-SW-13-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-185105-A-6	HD-COD-SW-15-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-185105-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-185105-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-185105-A-7	HD-COD-SW-16-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-185105-A-9	HD-COD-SW-26-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-185105-A-10	HD-COD-SW-27-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-185105-A-11	HD-COD-SW-28-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-185105-A-12	HD-COD-SW-29-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-185105-A-8	HD-COD-SW-17-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-185105-B-8	HD-COD-SW-17-0/1-0	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	2759
410-185105-A-13	HD-QC1-0/1-1	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 1 of 4

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1

SDG No.: _____

Batch Number: 545038 Batch Start Date: 08/27/24 20:38 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
410-185105-B-13	HD-QC1-0/1-1	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	2759

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_VOC#1 00182	MSV_LL_#1_826 00145	MSV_LL_#2_826 00151	MSV_LL_GAS826 00230	MSV_LLcentISS 00013	MSV_QC_Gas826 00216
BFB 410-545038/1		8260D								
CCVIS 410-545038/3		8260D				20 uL	20 uL	20 uL	5 uL	
LCS 410-545038/4		8260D			12.5 uL				5 uL	12.5 uL
LCSD 410-545038/5		8260D			12.5 uL				5 uL	12.5 uL
MB 410-545038/7		8260D							5 uL	
410-185105-A-14	HD-QC1-0/1-2	8260D	Water	T					5 uL	
410-185105-A-1	HD-COD-SW-6-0/1-0	8260D	Water	T					5 uL	
410-185105-A-2	HD-COD-SW-7-0/1-0	8260D	Water	T					5 uL	
410-185105-A-3	HD-COD-SW-8-0/1-0	8260D	Water	T					5 uL	
410-185105-A-4	HD-COD-SW-9-0/1-0	8260D	Water	T					5 uL	
410-185105-A-5	HD-COD-SW-13-0/1-0	8260D	Water	T					5 uL	
410-185105-A-6	HD-COD-SW-15-0/1-0	8260D	Water	T					5 uL	
410-185105-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	Water	T	5.38 uL				5 uL	5.38 uL
410-185105-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	Water	T	5.38 uL				5 uL	5.38 uL
410-185105-A-7	HD-COD-SW-16-0/1-0	8260D	Water	T					5 uL	
410-185105-A-9	HD-COD-SW-26-0/1-0	8260D	Water	T					5 uL	
410-185105-A-10	HD-COD-SW-27-0/1-0	8260D	Water	T					5 uL	
410-185105-A-11	HD-COD-SW-28-0/1-0	8260D	Water	T					5 uL	
410-185105-A-12	HD-COD-SW-29-0/1-0	8260D	Water	T					5 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 2 of 4

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1

SDG No.: _____

Batch Number: 545038 Batch Start Date: 08/27/24 20:38 Batch Analyst: Walmer, GavinBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_VOC#1 00182	MSV_LL_#1_826 00145	MSV_LL_#2_826 00151	MSV_LL_GAS826 00230	MSV_LLcentISS 00013	MSV_QC_Gas826 00216
410-185105-A-8	HD-COD-SW-17-0/ 1-0	8260D	Water	T					5 uL	
410-185105-B-8	HD-COD-SW-17-0/ 1-0	8260D	Water	T					5 uL	
410-185105-A-13	HD-QC1-0/1-1	8260D	Water	T					5 uL	
410-185105-B-13	HD-QC1-0/1-1	8260D	Water	T					5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_V_BFB 00017					
BFB 410-545038/1		8260D			1 uL					
CCVIS 410-545038/3		8260D								
LCS 410-545038/4		8260D								
LCSD 410-545038/5		8260D								
MB 410-545038/7		8260D								
410-185105-A-14	HD-QC1-0/1-2	8260D	Water	T						
410-185105-A-1	HD-COD-SW-6-0/1 -0	8260D	Water	T						
410-185105-A-2	HD-COD-SW-7-0/1 -0	8260D	Water	T						
410-185105-A-3	HD-COD-SW-8-0/1 -0	8260D	Water	T						
410-185105-A-4	HD-COD-SW-9-0/1 -0	8260D	Water	T						
410-185105-A-5	HD-COD-SW-13-0/ 1-0	8260D	Water	T						
410-185105-A-6	HD-COD-SW-15-0/ 1-0	8260D	Water	T						
410-185105-A-6 MS	HD-COD-SW-15-0/ 1-0 MS	8260D	Water	T						
410-185105-A-6 MSD	HD-COD-SW-15-0/ 1-0 MSD	8260D	Water	T						
410-185105-A-7	HD-COD-SW-16-0/ 1-0	8260D	Water	T						
410-185105-A-9	HD-COD-SW-26-0/ 1-0	8260D	Water	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 3 of 4

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-185105-1

SDG No.: _____

Batch Number: 545038 Batch Start Date: 08/27/24 20:38 Batch Analyst: Walmer, GavinBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_V_BFB 000I7					
410-185105-A-10	HD-COD-SW-27-0/ 1-0	8260D	Water	T						
410-185105-A-11	HD-COD-SW-28-0/ 1-0	8260D	Water	T						
410-185105-A-12	HD-COD-SW-29-0/ 1-0	8260D	Water	T						
410-185105-A-8	HD-COD-SW-17-0/ 1-0	8260D	Water	T						
410-185105-B-8	HD-COD-SW-17-0/ 1-0	8260D	Water	T						
410-185105-A-13	HD-QC1-0/1-1	8260D	Water	T						
410-185105-B-13	HD-QC1-0/1-1	8260D	Water	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents



410-185105 Chain of Custody

Environmental Analysis Request/Chain of Custody

Pg. 1 of 2

Acct. # _____ Group # _____ Sample # _____

Client: Groundwater Sciences Corporation				Matrix			Analyses Requested										For Lab Use Only					
Project Name/#: YNOP Monthly Surface Water		Site ID #: YNOP, York PA		☐ Tissue			Preservation Codes										SF #: _____					
Project Manager: Chris O'Neil		P.O. #: 10012.52		☐ Ground													SCR #: _____					
Sampler: Casey Littlefield / Lucas Grimm		PWSID #: N/A		☐ Surface													Preservation Codes					
Phone #: (717) 901-8176 / (717) 756-1246		Quote #: _____		☐ Potable													H = HCl T = Thiosulfate					
State where samples were collected: York, PA		For Compliance: Yes ☐ No ☒		☐ NPDES													N = HNO ₃ B = NaOH					
				☐ Other:													S = H ₂ SO ₄ P = H ₃ PO ₄					
																	O = Other					
Sample Identification		Collection		Grab	Composite	Soil	Water	Other:	Total # of Containers	Aqueous VOCs via 8260D (low level - 25 ml purge)											Remarks	
HD-COD-SW-6-0/1-0		8/20/2024	1040	X			X		3	X								All samples				
HD-COD-SW-7-0/1-0			1123	X			X		3	X								preserved on				
HD-COD-SW-8-0/1-0			0915	X			X		3	X								ice				
HD-COD-SW-9-0/1-0			1253	X			X		3	X												
HD-COD-SW-13-0/1-0			0938	X			X		3	X												
HD-COD-SW-15-0/1-0			1150	X			X		3	X												
HD-COD-SW-15-0/1-0 MS			1150	X			X		3	X												
HD-COD-SW-15-0/1-0 MSD			1150	X			X		3	X												
HD-COD-SW-16-0/1-0			1000	X			X		3	X												
HD-COD-SW-17-0/1-0			1015	X			X		3	X												
Turnaround Time Requested (TAT) (please check):				Standard ☒ Rush ☐		Relinquished by:		Date	Time	Received by:		Date	Time									
(Rush TAT is subject to laboratory approval and surcharges.)						<i>[Signature]</i>		8/21/2024	0935	<i>[Signature]</i>		8/21/2024	0930									
Date results are needed: STANDARD						Relinquished by:		Date	Time	Received by:		Date	Time									
Rush results requested by (please check):				E-Mail ☐ Phone ☐		<i>[Signature]</i>		8/21/24	1530	<i>[Signature]</i>												
E-mail Address:						Relinquished by:		Date	Time	Received by:		Date	Time									
Phone: DN - FILE						<i>[Signature]</i>				<i>[Signature]</i>												
Data Package Options (please check if required)						Relinquished by:		Date	Time	Received by:		Date	Time									
Type I (Validation/non-CLP) ☐ MA MCP ☐						<i>[Signature]</i>				<i>[Signature]</i>												
Type III (Reduced non-CLP) ☐ CT RCP ☐						Relinquished by:		Date	Time	Received by:		Date	Time									
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐						<i>[Signature]</i>				<i>[Signature]</i>		8/21/24	1530									
NJ DKQP ☐ NYSDEC Category ☐ A or ☐ B						Relinquished by Commercial Carrier:				Temperature upon receipt _____ °C												
EDD Required? Yes ☒ No ☐ If yes, format: _____				CLP Like Deliverables, Project Specific Analyte List		UPS _____ FedEx _____ Other _____				<i>R 3.1 - C 2.7</i>												



**Lancaster Laboratories
Environmental**

Acct. # _____ Group # _____ Sample # _____

[illegible]

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-185105-1

Login Number: 185105

List Number: 1

Creator: Ballard, Megan

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).	True	
WV: Container Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
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	

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-185105-1

Login Number: 185105

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 2

Creator: Hastings, Greg

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		