

 **ANALYTICAL REPORT****PREPARED FOR**

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Generated 6/5/2023 12:27 PM

JOB DESCRIPTION

fYNOP Monthly Surface Water

JOB NUMBER

410-127761-1

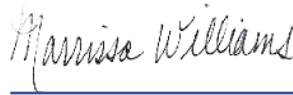
Eurofins Lancaster Laboratories Environment Testing, LLC

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



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Definitions/Glossary

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

Job ID: 410-127761-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
FH	MS and/or MSD recovery above control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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
410-127761-1

Receipt

The samples were received on 5/23/2023 4:35 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 4.1°C

GC/MS VOA

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: 410-127761-1

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

Lab Sample ID: 410-127761-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.8	J	5.0	1.0	ug/L	1		8260D	Total/NA
Chloromethane	0.19	J	0.50	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.17	J	0.50	0.080	ug/L	1		8260D	Total/NA
Toluene	0.097	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.12	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-127761-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.0	J	5.0	1.0	ug/L	1		8260D	Total/NA
Chloromethane	0.20	J	0.50	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.25	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-8-0/1-0

Lab Sample ID: 410-127761-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.4	J	5.0	1.0	ug/L	1		8260D	Total/NA
Chloromethane	0.14	J	0.50	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.22	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.40	J	0.50	0.20	ug/L	1		8260D	Total/NA
Toluene	0.085	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.20	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-127761-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.8	J	5.0	1.0	ug/L	1		8260D	Total/NA
Chloromethane	0.17	J	0.50	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.16	J	0.50	0.080	ug/L	1		8260D	Total/NA
Toluene	0.095	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.14	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-127761-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.0	J	5.0	1.0	ug/L	1		8260D	Total/NA
Chloromethane	0.14	J	0.50	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.22	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.1	J	0.50	0.20	ug/L	1		8260D	Total/NA
Toluene	0.085	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.19	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-127761-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.22	J	0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.16	J	0.50	0.10	ug/L	1		8260D	Total/NA
Acetone	1.4	J	5.0	1.0	ug/L	1		8260D	Total/NA
Chloroform	0.24	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.94	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	4.3	FH	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.94	J	0.50	0.080	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 410-127761-1

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

Lab Sample ID: 410-127761-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.8	J	5.0	1.0	ug/L	1		8260D	Total/NA
Chloromethane	0.28	J	0.50	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.24	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.68		0.50	0.20	ug/L	1		8260D	Total/NA
Toluene	0.089	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-17-0/1-0

Lab Sample ID: 410-127761-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.6		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.62		0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.29	J	0.50	0.10	ug/L	1		8260D	Total/NA
Acetone	3.3	J	5.0	1.0	ug/L	1		8260D	Total/NA
Chloroform	0.16	J	0.50	0.090	ug/L	1		8260D	Total/NA
Chloromethane	0.23	J	0.50	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.2		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	1.7		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	35		5.0	2.0	ug/L	10		8260D	Total/NA

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

Lab Sample ID: 410-127761-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.3	J	5.0	1.0	ug/L	1		8260D	Total/NA
Chloroform	0.12	J	0.50	0.090	ug/L	1		8260D	Total/NA
Chloromethane	0.13	J	0.50	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.21	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.26	J	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.18	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-127761-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.9	J	5.0	1.0	ug/L	1		8260D	Total/NA
Chloromethane	0.14	J	0.50	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.24	J	0.50	0.080	ug/L	1		8260D	Total/NA
Toluene	0.089	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.18	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-127761-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.5	J	5.0	1.0	ug/L	1		8260D	Total/NA
Chloromethane	0.15	J	0.50	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.20	J	0.50	0.080	ug/L	1		8260D	Total/NA
Toluene	0.095	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.16	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-127761-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.4	J	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.22	J	0.50	0.080	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 410-127761-1

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

Lab Sample ID: 410-127761-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.37	J	0.50	0.20	ug/L	1		8260D	Total/NA
Toluene	0.080	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.20	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-127761-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.9		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.70		0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.32	J	0.50	0.10	ug/L	1		8260D	Total/NA
Acetone	2.0	J	5.0	1.0	ug/L	1		8260D	Total/NA
Chloroform	0.16	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.8		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	2.0		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	34		5.0	2.0	ug/L	10		8260D	Total/NA

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

Lab Sample ID: 410-127761-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.2	J	5.0	1.0	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: 410-127761-1

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

Lab Sample ID: 410-127761-1

Date Collected: 05/23/23 10:33

Matrix: Water

Date Received: 05/23/23 16:35

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			06/01/23 01:35	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 01:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/01/23 01:35	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 01:35	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/01/23 01:35	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 01:35	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/01/23 01:35	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/01/23 01:35	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/01/23 01:35	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/01/23 01:35	1
2-Hexanone	ND		5.0	0.10	ug/L			06/01/23 01:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/01/23 01:35	1
Acetone	2.8	J	5.0	1.0	ug/L			06/01/23 01:35	1
Benzene	ND		0.50	0.10	ug/L			06/01/23 01:35	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/01/23 01:35	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/01/23 01:35	1
Bromoform	ND		1.0	0.30	ug/L			06/01/23 01:35	1
Bromomethane	ND		0.50	0.10	ug/L			06/01/23 01:35	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/01/23 01:35	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/01/23 01:35	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/01/23 01:35	1
Chloroethane	ND		0.50	0.10	ug/L			06/01/23 01:35	1
Chloroform	ND		0.50	0.090	ug/L			06/01/23 01:35	1
Chloromethane	0.19	J	0.50	0.10	ug/L			06/01/23 01:35	1
cis-1,2-Dichloroethene	0.17	J	0.50	0.080	ug/L			06/01/23 01:35	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/01/23 01:35	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/01/23 01:35	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/01/23 01:35	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/01/23 01:35	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/01/23 01:35	1
Styrene	ND		0.50	0.070	ug/L			06/01/23 01:35	1
Tetrachloroethene	ND		0.50	0.20	ug/L			06/01/23 01:35	1
Toluene	0.097	J	0.50	0.080	ug/L			06/01/23 01:35	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 01:35	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/01/23 01:35	1
Trichloroethene	0.12	J	0.50	0.080	ug/L			06/01/23 01:35	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/01/23 01:35	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/01/23 01:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		80 - 120		06/01/23 01:35	1
4-Bromofluorobenzene (Surr)	91		80 - 120		06/01/23 01:35	1
Dibromofluoromethane (Surr)	90		80 - 120		06/01/23 01:35	1
Toluene-d8 (Surr)	105		80 - 120		06/01/23 01:35	1

Client Sample Results

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

Job ID: 410-127761-1

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

Lab Sample ID: 410-127761-2

Date Collected: 05/23/23 11:10

Matrix: Water

Date Received: 05/23/23 16:35

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			06/01/23 01:58	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 01:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/01/23 01:58	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 01:58	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/01/23 01:58	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 01:58	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/01/23 01:58	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/01/23 01:58	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/01/23 01:58	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/01/23 01:58	1
2-Hexanone	ND		5.0	0.10	ug/L			06/01/23 01:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/01/23 01:58	1
Acetone	3.0	J	5.0	1.0	ug/L			06/01/23 01:58	1
Benzene	ND		0.50	0.10	ug/L			06/01/23 01:58	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/01/23 01:58	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/01/23 01:58	1
Bromoform	ND		1.0	0.30	ug/L			06/01/23 01:58	1
Bromomethane	ND		0.50	0.10	ug/L			06/01/23 01:58	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/01/23 01:58	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/01/23 01:58	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/01/23 01:58	1
Chloroethane	ND		0.50	0.10	ug/L			06/01/23 01:58	1
Chloroform	ND		0.50	0.090	ug/L			06/01/23 01:58	1
Chloromethane	0.20	J	0.50	0.10	ug/L			06/01/23 01:58	1
cis-1,2-Dichloroethene	0.25	J	0.50	0.080	ug/L			06/01/23 01:58	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/01/23 01:58	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/01/23 01:58	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/01/23 01:58	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/01/23 01:58	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/01/23 01:58	1
Styrene	ND		0.50	0.070	ug/L			06/01/23 01:58	1
Tetrachloroethene	ND		0.50	0.20	ug/L			06/01/23 01:58	1
Toluene	ND		0.50	0.080	ug/L			06/01/23 01:58	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 01:58	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/01/23 01:58	1
Trichloroethene	0.21	J	0.50	0.080	ug/L			06/01/23 01:58	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/01/23 01:58	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/01/23 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		80 - 120		06/01/23 01:58	1
4-Bromofluorobenzene (Surr)	81		80 - 120		06/01/23 01:58	1
Dibromofluoromethane (Surr)	90		80 - 120		06/01/23 01:58	1
Toluene-d8 (Surr)	104		80 - 120		06/01/23 01:58	1

Client Sample Results

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

Job ID: 410-127761-1

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

Lab Sample ID: 410-127761-3

Date Collected: 05/23/23 09:20

Matrix: Water

Date Received: 05/23/23 16:35

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			06/01/23 02:20	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 02:20	1
1,1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/01/23 02:20	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 02:20	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/01/23 02:20	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 02:20	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/01/23 02:20	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/01/23 02:20	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/01/23 02:20	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/01/23 02:20	1
2-Hexanone	ND		5.0	0.10	ug/L			06/01/23 02:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/01/23 02:20	1
Acetone	2.4	J	5.0	1.0	ug/L			06/01/23 02:20	1
Benzene	ND		0.50	0.10	ug/L			06/01/23 02:20	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/01/23 02:20	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/01/23 02:20	1
Bromoform	ND		1.0	0.30	ug/L			06/01/23 02:20	1
Bromomethane	ND		0.50	0.10	ug/L			06/01/23 02:20	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/01/23 02:20	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/01/23 02:20	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/01/23 02:20	1
Chloroethane	ND		0.50	0.10	ug/L			06/01/23 02:20	1
Chloroform	ND		0.50	0.090	ug/L			06/01/23 02:20	1
Chloromethane	0.14	J	0.50	0.10	ug/L			06/01/23 02:20	1
cis-1,2-Dichloroethene	0.22	J	0.50	0.080	ug/L			06/01/23 02:20	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/01/23 02:20	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/01/23 02:20	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/01/23 02:20	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/01/23 02:20	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/01/23 02:20	1
Styrene	ND		0.50	0.070	ug/L			06/01/23 02:20	1
Tetrachloroethene	0.40	J	0.50	0.20	ug/L			06/01/23 02:20	1
Toluene	0.085	J	0.50	0.080	ug/L			06/01/23 02:20	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 02:20	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/01/23 02:20	1
Trichloroethene	0.20	J	0.50	0.080	ug/L			06/01/23 02:20	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/01/23 02:20	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/01/23 02:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		80 - 120					06/01/23 02:20	1
4-Bromofluorobenzene (Surr)	91		80 - 120					06/01/23 02:20	1
Dibromofluoromethane (Surr)	91		80 - 120					06/01/23 02:20	1
Toluene-d8 (Surr)	105		80 - 120					06/01/23 02:20	1

Client Sample Results

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

Job ID: 410-127761-1

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

Lab Sample ID: 410-127761-4

Date Collected: 05/23/23 12:55

Matrix: Water

Date Received: 05/23/23 16:35

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			06/01/23 02:42	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 02:42	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/01/23 02:42	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 02:42	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/01/23 02:42	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 02:42	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/01/23 02:42	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/01/23 02:42	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/01/23 02:42	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/01/23 02:42	1
2-Hexanone	ND		5.0	0.10	ug/L			06/01/23 02:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/01/23 02:42	1
Acetone	3.8	J	5.0	1.0	ug/L			06/01/23 02:42	1
Benzene	ND		0.50	0.10	ug/L			06/01/23 02:42	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/01/23 02:42	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/01/23 02:42	1
Bromoform	ND		1.0	0.30	ug/L			06/01/23 02:42	1
Bromomethane	ND		0.50	0.10	ug/L			06/01/23 02:42	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/01/23 02:42	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/01/23 02:42	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/01/23 02:42	1
Chloroethane	ND		0.50	0.10	ug/L			06/01/23 02:42	1
Chloroform	ND		0.50	0.090	ug/L			06/01/23 02:42	1
Chloromethane	0.17	J	0.50	0.10	ug/L			06/01/23 02:42	1
cis-1,2-Dichloroethene	0.16	J	0.50	0.080	ug/L			06/01/23 02:42	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/01/23 02:42	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/01/23 02:42	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/01/23 02:42	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/01/23 02:42	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/01/23 02:42	1
Styrene	ND		0.50	0.070	ug/L			06/01/23 02:42	1
Tetrachloroethene	ND		0.50	0.20	ug/L			06/01/23 02:42	1
Toluene	0.095	J	0.50	0.080	ug/L			06/01/23 02:42	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 02:42	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/01/23 02:42	1
Trichloroethene	0.14	J	0.50	0.080	ug/L			06/01/23 02:42	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/01/23 02:42	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/01/23 02:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		80 - 120		06/01/23 02:42	1
4-Bromofluorobenzene (Surr)	91		80 - 120		06/01/23 02:42	1
Dibromofluoromethane (Surr)	91		80 - 120		06/01/23 02:42	1
Toluene-d8 (Surr)	105		80 - 120		06/01/23 02:42	1

Client Sample Results

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

Job ID: 410-127761-1

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

Lab Sample ID: 410-127761-5

Date Collected: 05/23/23 09:45

Matrix: Water

Date Received: 05/23/23 16:35

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			06/01/23 03:04	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 03:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/01/23 03:04	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 03:04	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/01/23 03:04	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 03:04	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/01/23 03:04	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/01/23 03:04	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/01/23 03:04	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/01/23 03:04	1
2-Hexanone	ND		5.0	0.10	ug/L			06/01/23 03:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/01/23 03:04	1
Acetone	3.0	J	5.0	1.0	ug/L			06/01/23 03:04	1
Benzene	ND		0.50	0.10	ug/L			06/01/23 03:04	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/01/23 03:04	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/01/23 03:04	1
Bromoform	ND		1.0	0.30	ug/L			06/01/23 03:04	1
Bromomethane	ND		0.50	0.10	ug/L			06/01/23 03:04	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/01/23 03:04	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/01/23 03:04	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/01/23 03:04	1
Chloroethane	ND		0.50	0.10	ug/L			06/01/23 03:04	1
Chloroform	ND		0.50	0.090	ug/L			06/01/23 03:04	1
Chloromethane	0.14	J	0.50	0.10	ug/L			06/01/23 03:04	1
cis-1,2-Dichloroethene	0.22	J	0.50	0.080	ug/L			06/01/23 03:04	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/01/23 03:04	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/01/23 03:04	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/01/23 03:04	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/01/23 03:04	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/01/23 03:04	1
Styrene	ND		0.50	0.070	ug/L			06/01/23 03:04	1
Tetrachloroethene	1.1		0.50	0.20	ug/L			06/01/23 03:04	1
Toluene	0.085	J	0.50	0.080	ug/L			06/01/23 03:04	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 03:04	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/01/23 03:04	1
Trichloroethene	0.19	J	0.50	0.080	ug/L			06/01/23 03:04	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/01/23 03:04	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/01/23 03:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		80 - 120		06/01/23 03:04	1
4-Bromofluorobenzene (Surr)	91		80 - 120		06/01/23 03:04	1
Dibromofluoromethane (Surr)	91		80 - 120		06/01/23 03:04	1
Toluene-d8 (Surr)	104		80 - 120		06/01/23 03:04	1

Client Sample Results

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

Job ID: 410-127761-1

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

Lab Sample ID: 410-127761-6

Date Collected: 05/23/23 11:38

Matrix: Water

Date Received: 05/23/23 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/31/23 22:59	1
1,1,1-Trichloroethane	0.22	J	0.50	0.080	ug/L			05/31/23 22:59	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			05/31/23 22:59	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			05/31/23 22:59	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			05/31/23 22:59	1
1,1-Dichloroethene	0.16	J	0.50	0.10	ug/L			05/31/23 22:59	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			05/31/23 22:59	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			05/31/23 22:59	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			05/31/23 22:59	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			05/31/23 22:59	1
2-Hexanone	ND		5.0	0.10	ug/L			05/31/23 22:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			05/31/23 22:59	1
Acetone	1.4	J	5.0	1.0	ug/L			05/31/23 22:59	1
Benzene	ND		0.50	0.10	ug/L			05/31/23 22:59	1
Bromochloromethane	ND		0.50	0.080	ug/L			05/31/23 22:59	1
Bromodichloromethane	ND		0.50	0.080	ug/L			05/31/23 22:59	1
Bromoform	ND		1.0	0.30	ug/L			05/31/23 22:59	1
Bromomethane	ND		0.50	0.10	ug/L			05/31/23 22:59	1
Carbon disulfide	ND		1.0	0.10	ug/L			05/31/23 22:59	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			05/31/23 22:59	1
Chlorobenzene	ND		0.50	0.070	ug/L			05/31/23 22:59	1
Chloroethane	ND		0.50	0.10	ug/L			05/31/23 22:59	1
Chloroform	0.24	J	0.50	0.090	ug/L			05/31/23 22:59	1
Chloromethane	ND		0.50	0.10	ug/L			05/31/23 22:59	1
cis-1,2-Dichloroethene	0.94		0.50	0.080	ug/L			05/31/23 22:59	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/31/23 22:59	1
Dibromochloromethane	ND		0.50	0.080	ug/L			05/31/23 22:59	1
Ethylbenzene	ND	FH	0.50	0.080	ug/L			05/31/23 22:59	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			05/31/23 22:59	1
Methylene Chloride	ND		0.50	0.10	ug/L			05/31/23 22:59	1
Styrene	ND		0.50	0.070	ug/L			05/31/23 22:59	1
Tetrachloroethene	4.3	FH	0.50	0.20	ug/L			05/31/23 22:59	1
Toluene	ND	FH	0.50	0.080	ug/L			05/31/23 22:59	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			05/31/23 22:59	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/31/23 22:59	1
Trichloroethene	0.94		0.50	0.080	ug/L			05/31/23 22:59	1
Vinyl chloride	ND		0.50	0.10	ug/L			05/31/23 22:59	1
Xylenes, Total	ND	FH	1.0	0.070	ug/L			05/31/23 22:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		80 - 120		05/31/23 22:59	1
4-Bromofluorobenzene (Surr)	89		80 - 120		05/31/23 22:59	1
Dibromofluoromethane (Surr)	91		80 - 120		05/31/23 22:59	1
Toluene-d8 (Surr)	103		80 - 120		05/31/23 22:59	1

Client Sample Results

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

Job ID: 410-127761-1

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

Lab Sample ID: 410-127761-7

Date Collected: 05/23/23 10:05

Matrix: Water

Date Received: 05/23/23 16:35

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			06/01/23 03:27	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 03:27	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/01/23 03:27	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 03:27	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/01/23 03:27	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 03:27	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/01/23 03:27	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/01/23 03:27	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/01/23 03:27	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/01/23 03:27	1
2-Hexanone	ND		5.0	0.10	ug/L			06/01/23 03:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/01/23 03:27	1
Acetone	3.8	J	5.0	1.0	ug/L			06/01/23 03:27	1
Benzene	ND		0.50	0.10	ug/L			06/01/23 03:27	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/01/23 03:27	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/01/23 03:27	1
Bromoform	ND		1.0	0.30	ug/L			06/01/23 03:27	1
Bromomethane	ND		0.50	0.10	ug/L			06/01/23 03:27	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/01/23 03:27	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/01/23 03:27	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/01/23 03:27	1
Chloroethane	ND		0.50	0.10	ug/L			06/01/23 03:27	1
Chloroform	ND		0.50	0.090	ug/L			06/01/23 03:27	1
Chloromethane	0.28	J	0.50	0.10	ug/L			06/01/23 03:27	1
cis-1,2-Dichloroethene	0.24	J	0.50	0.080	ug/L			06/01/23 03:27	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/01/23 03:27	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/01/23 03:27	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/01/23 03:27	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/01/23 03:27	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/01/23 03:27	1
Styrene	ND		0.50	0.070	ug/L			06/01/23 03:27	1
Tetrachloroethene	0.68		0.50	0.20	ug/L			06/01/23 03:27	1
Toluene	0.089	J	0.50	0.080	ug/L			06/01/23 03:27	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 03:27	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/01/23 03:27	1
Trichloroethene	0.21	J	0.50	0.080	ug/L			06/01/23 03:27	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/01/23 03:27	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/01/23 03:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		80 - 120					06/01/23 03:27	1
4-Bromofluorobenzene (Surr)	90		80 - 120					06/01/23 03:27	1
Dibromofluoromethane (Surr)	93		80 - 120					06/01/23 03:27	1
Toluene-d8 (Surr)	105		80 - 120					06/01/23 03:27	1

Client Sample Results

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

Job ID: 410-127761-1

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

Lab Sample ID: 410-127761-8

Date Collected: 05/23/23 10:15

Matrix: Water

Date Received: 05/23/23 16:35

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			06/01/23 03:49	1
1,1,1-Trichloroethane	2.6		0.50	0.080	ug/L			06/01/23 03:49	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/01/23 03:49	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 03:49	1
1,1-Dichloroethane	0.62		0.50	0.10	ug/L			06/01/23 03:49	1
1,1-Dichloroethene	0.29	J	0.50	0.10	ug/L			06/01/23 03:49	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/01/23 03:49	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/01/23 03:49	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/01/23 03:49	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/01/23 03:49	1
2-Hexanone	ND		5.0	0.10	ug/L			06/01/23 03:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/01/23 03:49	1
Acetone	3.3	J	5.0	1.0	ug/L			06/01/23 03:49	1
Benzene	ND		0.50	0.10	ug/L			06/01/23 03:49	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/01/23 03:49	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/01/23 03:49	1
Bromoform	ND		1.0	0.30	ug/L			06/01/23 03:49	1
Bromomethane	ND		0.50	0.10	ug/L			06/01/23 03:49	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/01/23 03:49	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/01/23 03:49	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/01/23 03:49	1
Chloroethane	ND		0.50	0.10	ug/L			06/01/23 03:49	1
Chloroform	0.16	J	0.50	0.090	ug/L			06/01/23 03:49	1
Chloromethane	0.23	J	0.50	0.10	ug/L			06/01/23 03:49	1
cis-1,2-Dichloroethene	2.2		0.50	0.080	ug/L			06/01/23 03:49	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/01/23 03:49	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/01/23 03:49	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/01/23 03:49	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/01/23 03:49	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/01/23 03:49	1
Styrene	ND		0.50	0.070	ug/L			06/01/23 03:49	1
Toluene	ND		0.50	0.080	ug/L			06/01/23 03:49	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 03:49	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/01/23 03:49	1
Trichloroethene	1.7		0.50	0.080	ug/L			06/01/23 03:49	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/01/23 03:49	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/01/23 03:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		80 - 120		06/01/23 03:49	1
4-Bromofluorobenzene (Surr)	90		80 - 120		06/01/23 03:49	1
Dibromofluoromethane (Surr)	93		80 - 120		06/01/23 03:49	1
Toluene-d8 (Surr)	104		80 - 120		06/01/23 03:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	35		5.0	2.0	ug/L			06/02/23 02:40	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		80 - 120		06/02/23 02:40	10

Client Sample Results

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

Job ID: 410-127761-1

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

Lab Sample ID: 410-127761-8

Date Collected: 05/23/23 10:15

Matrix: Water

Date Received: 05/23/23 16:35

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		06/02/23 02:40	10
Dibromofluoromethane (Surr)	91		80 - 120		06/02/23 02:40	10
Toluene-d8 (Surr)	110		80 - 120		06/02/23 02:40	10

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

Lab Sample ID: 410-127761-9

Date Collected: 05/23/23 10:56

Matrix: Water

Date Received: 05/23/23 16:35

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			06/01/23 04:11	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 04:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/01/23 04:11	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 04:11	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/01/23 04:11	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 04:11	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/01/23 04:11	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/01/23 04:11	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/01/23 04:11	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/01/23 04:11	1
2-Hexanone	ND		5.0	0.10	ug/L			06/01/23 04:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/01/23 04:11	1
Acetone	3.3	J	5.0	1.0	ug/L			06/01/23 04:11	1
Benzene	ND		0.50	0.10	ug/L			06/01/23 04:11	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/01/23 04:11	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/01/23 04:11	1
Bromoform	ND		1.0	0.30	ug/L			06/01/23 04:11	1
Bromomethane	ND		0.50	0.10	ug/L			06/01/23 04:11	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/01/23 04:11	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/01/23 04:11	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/01/23 04:11	1
Chloroethane	ND		0.50	0.10	ug/L			06/01/23 04:11	1
Chloroform	0.12	J	0.50	0.090	ug/L			06/01/23 04:11	1
Chloromethane	0.13	J	0.50	0.10	ug/L			06/01/23 04:11	1
cis-1,2-Dichloroethene	0.21	J	0.50	0.080	ug/L			06/01/23 04:11	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/01/23 04:11	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/01/23 04:11	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/01/23 04:11	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/01/23 04:11	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/01/23 04:11	1
Styrene	ND		0.50	0.070	ug/L			06/01/23 04:11	1
Tetrachloroethene	0.26	J	0.50	0.20	ug/L			06/01/23 04:11	1
Toluene	ND		0.50	0.080	ug/L			06/01/23 04:11	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 04:11	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/01/23 04:11	1
Trichloroethene	0.18	J	0.50	0.080	ug/L			06/01/23 04:11	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/01/23 04:11	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/01/23 04:11	1

Client Sample Results

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

Job ID: 410-127761-1

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

Lab Sample ID: 410-127761-9

Date Collected: 05/23/23 10:56

Matrix: Water

Date Received: 05/23/23 16:35

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		80 - 120		06/01/23 04:11	1
4-Bromofluorobenzene (Surr)	90		80 - 120		06/01/23 04:11	1
Dibromofluoromethane (Surr)	93		80 - 120		06/01/23 04:11	1
Toluene-d8 (Surr)	105		80 - 120		06/01/23 04:11	1

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

Lab Sample ID: 410-127761-10

Date Collected: 05/23/23 11:30

Matrix: Water

Date Received: 05/23/23 16:35

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			06/01/23 04:34	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 04:34	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/01/23 04:34	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 04:34	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/01/23 04:34	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 04:34	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/01/23 04:34	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/01/23 04:34	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/01/23 04:34	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/01/23 04:34	1
2-Hexanone	ND		5.0	0.10	ug/L			06/01/23 04:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/01/23 04:34	1
Acetone	2.9	J	5.0	1.0	ug/L			06/01/23 04:34	1
Benzene	ND		0.50	0.10	ug/L			06/01/23 04:34	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/01/23 04:34	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/01/23 04:34	1
Bromoform	ND		1.0	0.30	ug/L			06/01/23 04:34	1
Bromomethane	ND		0.50	0.10	ug/L			06/01/23 04:34	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/01/23 04:34	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/01/23 04:34	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/01/23 04:34	1
Chloroethane	ND		0.50	0.10	ug/L			06/01/23 04:34	1
Chloroform	ND		0.50	0.090	ug/L			06/01/23 04:34	1
Chloromethane	0.14	J	0.50	0.10	ug/L			06/01/23 04:34	1
cis-1,2-Dichloroethene	0.24	J	0.50	0.080	ug/L			06/01/23 04:34	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/01/23 04:34	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/01/23 04:34	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/01/23 04:34	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/01/23 04:34	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/01/23 04:34	1
Styrene	ND		0.50	0.070	ug/L			06/01/23 04:34	1
Tetrachloroethene	ND		0.50	0.20	ug/L			06/01/23 04:34	1
Toluene	0.089	J	0.50	0.080	ug/L			06/01/23 04:34	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 04:34	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/01/23 04:34	1
Trichloroethene	0.18	J	0.50	0.080	ug/L			06/01/23 04:34	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/01/23 04:34	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/01/23 04:34	1

Client Sample Results

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

Job ID: 410-127761-1

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

Lab Sample ID: 410-127761-10

Date Collected: 05/23/23 11:30

Matrix: Water

Date Received: 05/23/23 16:35

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		80 - 120		06/01/23 04:34	1
4-Bromofluorobenzene (Surr)	91		80 - 120		06/01/23 04:34	1
Dibromofluoromethane (Surr)	92		80 - 120		06/01/23 04:34	1
Toluene-d8 (Surr)	105		80 - 120		06/01/23 04:34	1

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

Lab Sample ID: 410-127761-11

Date Collected: 05/23/23 13:08

Matrix: Water

Date Received: 05/23/23 16:35

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			06/01/23 04:56	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 04:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/01/23 04:56	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 04:56	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/01/23 04:56	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 04:56	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/01/23 04:56	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/01/23 04:56	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/01/23 04:56	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/01/23 04:56	1
2-Hexanone	ND		5.0	0.10	ug/L			06/01/23 04:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/01/23 04:56	1
Acetone	4.5	J	5.0	1.0	ug/L			06/01/23 04:56	1
Benzene	ND		0.50	0.10	ug/L			06/01/23 04:56	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/01/23 04:56	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/01/23 04:56	1
Bromoform	ND		1.0	0.30	ug/L			06/01/23 04:56	1
Bromomethane	ND		0.50	0.10	ug/L			06/01/23 04:56	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/01/23 04:56	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/01/23 04:56	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/01/23 04:56	1
Chloroethane	ND		0.50	0.10	ug/L			06/01/23 04:56	1
Chloroform	ND		0.50	0.090	ug/L			06/01/23 04:56	1
Chloromethane	0.15	J	0.50	0.10	ug/L			06/01/23 04:56	1
cis-1,2-Dichloroethene	0.20	J	0.50	0.080	ug/L			06/01/23 04:56	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/01/23 04:56	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/01/23 04:56	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/01/23 04:56	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/01/23 04:56	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/01/23 04:56	1
Styrene	ND		0.50	0.070	ug/L			06/01/23 04:56	1
Tetrachloroethene	ND		0.50	0.20	ug/L			06/01/23 04:56	1
Toluene	0.095	J	0.50	0.080	ug/L			06/01/23 04:56	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 04:56	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/01/23 04:56	1
Trichloroethene	0.16	J	0.50	0.080	ug/L			06/01/23 04:56	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/01/23 04:56	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/01/23 04:56	1

Client Sample Results

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

Job ID: 410-127761-1

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

Lab Sample ID: 410-127761-11

Date Collected: 05/23/23 13:08

Matrix: Water

Date Received: 05/23/23 16:35

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		80 - 120		06/01/23 04:56	1
4-Bromofluorobenzene (Surr)	90		80 - 120		06/01/23 04:56	1
Dibromofluoromethane (Surr)	91		80 - 120		06/01/23 04:56	1
Toluene-d8 (Surr)	104		80 - 120		06/01/23 04:56	1

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

Lab Sample ID: 410-127761-12

Date Collected: 05/23/23 09:07

Matrix: Water

Date Received: 05/23/23 16:35

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			06/01/23 05:18	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 05:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/01/23 05:18	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 05:18	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/01/23 05:18	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 05:18	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/01/23 05:18	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/01/23 05:18	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/01/23 05:18	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/01/23 05:18	1
2-Hexanone	ND		5.0	0.10	ug/L			06/01/23 05:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/01/23 05:18	1
Acetone	3.4	J	5.0	1.0	ug/L			06/01/23 05:18	1
Benzene	ND		0.50	0.10	ug/L			06/01/23 05:18	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/01/23 05:18	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/01/23 05:18	1
Bromoform	ND		1.0	0.30	ug/L			06/01/23 05:18	1
Bromomethane	ND		0.50	0.10	ug/L			06/01/23 05:18	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/01/23 05:18	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/01/23 05:18	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/01/23 05:18	1
Chloroethane	ND		0.50	0.10	ug/L			06/01/23 05:18	1
Chloroform	ND		0.50	0.090	ug/L			06/01/23 05:18	1
Chloromethane	ND		0.50	0.10	ug/L			06/01/23 05:18	1
cis-1,2-Dichloroethene	0.22	J	0.50	0.080	ug/L			06/01/23 05:18	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/01/23 05:18	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/01/23 05:18	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/01/23 05:18	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/01/23 05:18	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/01/23 05:18	1
Styrene	ND		0.50	0.070	ug/L			06/01/23 05:18	1
Tetrachloroethene	0.37	J	0.50	0.20	ug/L			06/01/23 05:18	1
Toluene	0.080	J	0.50	0.080	ug/L			06/01/23 05:18	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 05:18	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/01/23 05:18	1
Trichloroethene	0.20	J	0.50	0.080	ug/L			06/01/23 05:18	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/01/23 05:18	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/01/23 05:18	1

Client Sample Results

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

Job ID: 410-127761-1

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

Lab Sample ID: 410-127761-12

Date Collected: 05/23/23 09:07

Matrix: Water

Date Received: 05/23/23 16:35

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		06/01/23 05:18	1
4-Bromofluorobenzene (Surr)	91		80 - 120		06/01/23 05:18	1
Dibromofluoromethane (Surr)	94		80 - 120		06/01/23 05:18	1
Toluene-d8 (Surr)	104		80 - 120		06/01/23 05:18	1

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

Lab Sample ID: 410-127761-13

Date Collected: 05/23/23 12:00

Matrix: Water

Date Received: 05/23/23 16:35

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			06/01/23 05:40	1
1,1,1-Trichloroethane	2.9		0.50	0.080	ug/L			06/01/23 05:40	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/01/23 05:40	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 05:40	1
1,1-Dichloroethane	0.70		0.50	0.10	ug/L			06/01/23 05:40	1
1,1-Dichloroethene	0.32 J		0.50	0.10	ug/L			06/01/23 05:40	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/01/23 05:40	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/01/23 05:40	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/01/23 05:40	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/01/23 05:40	1
2-Hexanone	ND		5.0	0.10	ug/L			06/01/23 05:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/01/23 05:40	1
Acetone	2.0 J		5.0	1.0	ug/L			06/01/23 05:40	1
Benzene	ND		0.50	0.10	ug/L			06/01/23 05:40	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/01/23 05:40	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/01/23 05:40	1
Bromoform	ND		1.0	0.30	ug/L			06/01/23 05:40	1
Bromomethane	ND		0.50	0.10	ug/L			06/01/23 05:40	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/01/23 05:40	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/01/23 05:40	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/01/23 05:40	1
Chloroethane	ND		0.50	0.10	ug/L			06/01/23 05:40	1
Chloroform	0.16 J		0.50	0.090	ug/L			06/01/23 05:40	1
Chloromethane	ND		0.50	0.10	ug/L			06/01/23 05:40	1
cis-1,2-Dichloroethene	2.8		0.50	0.080	ug/L			06/01/23 05:40	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/01/23 05:40	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/01/23 05:40	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/01/23 05:40	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/01/23 05:40	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/01/23 05:40	1
Styrene	ND		0.50	0.070	ug/L			06/01/23 05:40	1
Toluene	ND		0.50	0.080	ug/L			06/01/23 05:40	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 05:40	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/01/23 05:40	1
Trichloroethene	2.0		0.50	0.080	ug/L			06/01/23 05:40	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/01/23 05:40	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/01/23 05:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		06/01/23 05:40	1

Client Sample Results

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

Job ID: 410-127761-1

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

Lab Sample ID: 410-127761-13

Date Collected: 05/23/23 12:00

Matrix: Water

Date Received: 05/23/23 16:35

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		06/01/23 05:40	1
Dibromofluoromethane (Surr)	94		80 - 120		06/01/23 05:40	1
Toluene-d8 (Surr)	103		80 - 120		06/01/23 05:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	34		5.0	2.0	ug/L			06/02/23 03:03	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		80 - 120		06/02/23 03:03	10
4-Bromofluorobenzene (Surr)	88		80 - 120		06/02/23 03:03	10
Dibromofluoromethane (Surr)	90		80 - 120		06/02/23 03:03	10
Toluene-d8 (Surr)	109		80 - 120		06/02/23 03:03	10

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

Lab Sample ID: 410-127761-14

Date Collected: 05/23/23 00:00

Matrix: Water

Date Received: 05/23/23 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/31/23 22:37	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			05/31/23 22:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			05/31/23 22:37	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			05/31/23 22:37	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			05/31/23 22:37	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			05/31/23 22:37	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			05/31/23 22:37	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			05/31/23 22:37	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			05/31/23 22:37	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			05/31/23 22:37	1
2-Hexanone	ND		5.0	0.10	ug/L			05/31/23 22:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			05/31/23 22:37	1
Acetone	3.2	J	5.0	1.0	ug/L			05/31/23 22:37	1
Benzene	ND		0.50	0.10	ug/L			05/31/23 22:37	1
Bromochloromethane	ND		0.50	0.080	ug/L			05/31/23 22:37	1
Bromodichloromethane	ND		0.50	0.080	ug/L			05/31/23 22:37	1
Bromoform	ND		1.0	0.30	ug/L			05/31/23 22:37	1
Bromomethane	ND		0.50	0.10	ug/L			05/31/23 22:37	1
Carbon disulfide	ND		1.0	0.10	ug/L			05/31/23 22:37	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			05/31/23 22:37	1
Chlorobenzene	ND		0.50	0.070	ug/L			05/31/23 22:37	1
Chloroethane	ND		0.50	0.10	ug/L			05/31/23 22:37	1
Chloroform	ND		0.50	0.090	ug/L			05/31/23 22:37	1
Chloromethane	ND		0.50	0.10	ug/L			05/31/23 22:37	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			05/31/23 22:37	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/31/23 22:37	1
Dibromochloromethane	ND		0.50	0.080	ug/L			05/31/23 22:37	1
Ethylbenzene	ND		0.50	0.080	ug/L			05/31/23 22:37	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			05/31/23 22:37	1
Methylene Chloride	ND		0.50	0.10	ug/L			05/31/23 22:37	1

Client Sample Results

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

Job ID: 410-127761-1

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

Lab Sample ID: 410-127761-14

Date Collected: 05/23/23 00:00

Matrix: Water

Date Received: 05/23/23 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.50	0.070	ug/L			05/31/23 22:37	1
Tetrachloroethene	ND		0.50	0.20	ug/L			05/31/23 22:37	1
Toluene	ND		0.50	0.080	ug/L			05/31/23 22:37	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			05/31/23 22:37	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/31/23 22:37	1
Trichloroethene	ND		0.50	0.080	ug/L			05/31/23 22:37	1
Vinyl chloride	ND		0.50	0.10	ug/L			05/31/23 22:37	1
Xylenes, Total	ND		1.0	0.070	ug/L			05/31/23 22:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		05/31/23 22:37	1
4-Bromofluorobenzene (Surr)	93		80 - 120		05/31/23 22:37	1
Dibromofluoromethane (Surr)	90		80 - 120		05/31/23 22:37	1
Toluene-d8 (Surr)	105		80 - 120		05/31/23 22:37	1

Default Detection Limits

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

Job ID: 410-127761-1

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	0.10	ug/L
4-Methyl-2-pentanone (MIBK)	5.0	1.0	ug/L
Acetone	5.0	1.0	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	0.10	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: 410-127761-1

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)
410-127761-1	HD-COD-SW-6-0/1-0	98	91	90	105
410-127761-2	HD-COD-SW-7-0/1-0	98	81	90	104
410-127761-3	HD-COD-SW-8-0/1-0	95	91	91	105
410-127761-4	HD-COD-SW-9-0/1-0	97	91	91	105
410-127761-5	HD-COD-SW-13-0/1-0	98	91	91	104
410-127761-6	HD-COD-SW-15-0/1-0	97	89	91	103
410-127761-6 MS	HD-COD-SW-15-0/1-0 MS	96	96	92	108
410-127761-6 MSD	HD-COD-SW-15-0/1-0 MSD	102	96	92	106
410-127761-7	HD-COD-SW-16-0/1-0	96	90	93	105
410-127761-8	HD-COD-SW-17-0/1-0	100	90	93	104
410-127761-8 - DL	HD-COD-SW-17-0/1-0	101	91	91	110
410-127761-9	HD-COD-SW-26-0/1-0	96	90	93	105
410-127761-10	HD-COD-SW-27-0/1-0	98	91	92	105
410-127761-11	HD-COD-SW-28-0/1-0	97	90	91	104
410-127761-12	HD-COD-SW-29-0/1-0	102	91	94	104
410-127761-13	HD-QC1-0/1-1	99	91	94	103
410-127761-13 - DL	HD-QC1-0/1-1	98	88	90	109
410-127761-14	HD-QC1-0/1-2	99	93	90	105
LCS 410-381658/4	Lab Control Sample	102	96	92	107
LCS 410-382118/4	Lab Control Sample	93	96	88	115
LCSD 410-382118/5	Lab Control Sample Dup	96	96	88	115
MB 410-381658/6	Method Blank	98	97	92	104
MB 410-382118/7	Method Blank	97	98	89	112

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: 410-127761-1

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

Lab Sample ID: MB 410-381658/6
 Matrix: Water
 Analysis Batch: 381658

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			05/31/23 22:15	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			05/31/23 22:15	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			05/31/23 22:15	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			05/31/23 22:15	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			05/31/23 22:15	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			05/31/23 22:15	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			05/31/23 22:15	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			05/31/23 22:15	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			05/31/23 22:15	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			05/31/23 22:15	1
2-Hexanone	ND		5.0	0.10	ug/L			05/31/23 22:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			05/31/23 22:15	1
Acetone	ND		5.0	1.0	ug/L			05/31/23 22:15	1
Benzene	ND		0.50	0.10	ug/L			05/31/23 22:15	1
Bromochloromethane	ND		0.50	0.080	ug/L			05/31/23 22:15	1
Bromodichloromethane	ND		0.50	0.080	ug/L			05/31/23 22:15	1
Bromoform	ND		1.0	0.30	ug/L			05/31/23 22:15	1
Bromomethane	ND		0.50	0.10	ug/L			05/31/23 22:15	1
Carbon disulfide	ND		1.0	0.10	ug/L			05/31/23 22:15	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			05/31/23 22:15	1
Chlorobenzene	ND		0.50	0.070	ug/L			05/31/23 22:15	1
Chloroethane	ND		0.50	0.10	ug/L			05/31/23 22:15	1
Chloroform	ND		0.50	0.090	ug/L			05/31/23 22:15	1
Chloromethane	ND		0.50	0.10	ug/L			05/31/23 22:15	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			05/31/23 22:15	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			05/31/23 22:15	1
Dibromochloromethane	ND		0.50	0.080	ug/L			05/31/23 22:15	1
Ethylbenzene	ND		0.50	0.080	ug/L			05/31/23 22:15	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			05/31/23 22:15	1
Methylene Chloride	ND		0.50	0.10	ug/L			05/31/23 22:15	1
Styrene	ND		0.50	0.070	ug/L			05/31/23 22:15	1
Tetrachloroethene	ND		0.50	0.20	ug/L			05/31/23 22:15	1
Toluene	ND		0.50	0.080	ug/L			05/31/23 22:15	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			05/31/23 22:15	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			05/31/23 22:15	1
Trichloroethene	ND		0.50	0.080	ug/L			05/31/23 22:15	1
Vinyl chloride	ND		0.50	0.10	ug/L			05/31/23 22:15	1
Xylenes, Total	ND		1.0	0.070	ug/L			05/31/23 22:15	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	98		80 - 120		05/31/23 22:15	1
4-Bromofluorobenzene (Surr)	97		80 - 120		05/31/23 22:15	1
Dibromofluoromethane (Surr)	92		80 - 120		05/31/23 22:15	1
Toluene-d8 (Surr)	104		80 - 120		05/31/23 22:15	1

QC Sample Results

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

Job ID: 410-127761-1

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

Lab Sample ID: LCS 410-381658/4

Matrix: Water

Analysis Batch: 381658

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier			Limits	
1,1,1,2-Tetrachloroethane	5.00	5.26		ug/L		105	71 - 134
1,1,1-Trichloroethane	5.00	4.60		ug/L		92	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.75		ug/L		115	75 - 123
1,1,2-Trichloroethane	5.00	5.34		ug/L		107	80 - 120
1,1-Dichloroethane	5.00	5.05		ug/L		101	74 - 120
1,1-Dichloroethene	5.00	5.12		ug/L		102	80 - 131
1,2-Dibromoethane (EDB)	5.00	5.22		ug/L		104	80 - 120
1,2-Dichloroethane	5.00	4.46		ug/L		89	69 - 122
1,2-Dichloropropane	5.00	5.36		ug/L		107	80 - 120
2-Butanone (MEK)	62.5	65.5		ug/L		105	59 - 141
2-Hexanone	62.5	64.6		ug/L		103	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	63.7		ug/L		102	55 - 140
Acetone	62.5	66.4		ug/L		106	60 - 146
Benzene	5.00	5.30		ug/L		106	80 - 120
Bromochloromethane	5.00	4.87		ug/L		97	80 - 120
Bromodichloromethane	5.00	4.78		ug/L		96	73 - 124
Bromoform	5.00	4.59		ug/L		92	49 - 144
Bromomethane	5.00	4.19		ug/L		84	60 - 136
Carbon disulfide	5.00	5.16		ug/L		103	67 - 130
Carbon tetrachloride	5.00	4.55		ug/L		91	64 - 141
Chlorobenzene	5.00	5.27		ug/L		105	80 - 120
Chloroethane	5.00	4.32		ug/L		86	63 - 120
Chloroform	5.00	4.87		ug/L		97	80 - 120
Chloromethane	5.00	4.34		ug/L		87	56 - 124
cis-1,2-Dichloroethene	5.00	5.22		ug/L		104	80 - 122
cis-1,3-Dichloropropene	5.00	4.75		ug/L		95	67 - 121
Dibromochloromethane	5.00	5.04		ug/L		101	64 - 138
Ethylbenzene	5.00	5.54		ug/L		111	80 - 120
Methyl tert-butyl ether	5.00	4.77		ug/L		95	69 - 120
Methylene Chloride	5.00	5.13		ug/L		103	80 - 120
Styrene	5.00	5.44		ug/L		109	80 - 120
Tetrachloroethene	5.00	4.99		ug/L		100	80 - 120
Toluene	5.00	5.56		ug/L		111	80 - 120
trans-1,2-Dichloroethene	5.00	4.94		ug/L		99	80 - 122
trans-1,3-Dichloropropene	5.00	5.31		ug/L		106	61 - 129
Trichloroethene	5.00	4.84		ug/L		97	80 - 120
Vinyl chloride	5.00	4.01		ug/L		80	60 - 125
Xylenes, Total	15.0	16.4		ug/L		109	80 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	92		80 - 120
Toluene-d8 (Surr)	107		80 - 120

QC Sample Results

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

Job ID: 410-127761-1

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

Lab Sample ID: 410-127761-6 MS

Matrix: Water

Analysis Batch: 381658

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

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier			Limits	
1,1,1,2-Tetrachloroethane	ND		5.00	5.74		ug/L		115	71 - 134
1,1,1-Trichloroethane	0.22	J	5.00	5.66		ug/L		109	78 - 126
1,1,2,2-Tetrachloroethane	ND		5.00	6.14		ug/L		123	75 - 123
1,1,2-Trichloroethane	ND		5.00	5.70		ug/L		114	80 - 120
1,1-Dichloroethane	ND		5.00	5.75		ug/L		115	74 - 120
1,1-Dichloroethene	0.16	J	5.00	6.42		ug/L		125	80 - 131
1,2-Dibromoethane (EDB)	ND		5.00	5.52		ug/L		110	80 - 120
1,2-Dichloroethane	ND		5.00	4.66		ug/L		93	69 - 122
1,2-Dichloropropane	ND		5.00	5.86		ug/L		117	80 - 120
2-Butanone (MEK)	ND		62.6	70.5		ug/L		113	59 - 141
2-Hexanone	ND		62.6	72.5		ug/L		116	52 - 140
4-Methyl-2-pentanone (MIBK)	ND		62.6	71.5		ug/L		114	55 - 140
Acetone	1.4	J	62.6	69.8		ug/L		109	60 - 146
Benzene	ND		5.00	5.95		ug/L		119	80 - 120
Bromochloromethane	ND		5.00	5.27		ug/L		105	80 - 120
Bromodichloromethane	ND		5.00	5.15		ug/L		103	73 - 124
Bromoform	ND		5.00	4.83		ug/L		97	49 - 144
Bromomethane	ND		5.00	4.93		ug/L		98	60 - 136
Carbon disulfide	ND		5.00	6.09		ug/L		122	67 - 130
Carbon tetrachloride	ND		5.00	5.54		ug/L		111	64 - 141
Chlorobenzene	ND		5.00	5.80		ug/L		116	80 - 120
Chloroethane	ND		5.00	5.11		ug/L		102	63 - 120
Chloroform	0.24	J	5.00	5.57		ug/L		106	80 - 120
Chloromethane	ND		5.00	5.46		ug/L		109	80 - 120
cis-1,2-Dichloroethene	0.94		5.00	6.83		ug/L		118	80 - 122
cis-1,3-Dichloropropene	ND		5.00	5.15		ug/L		103	67 - 121
Dibromochloromethane	ND		5.00	5.43		ug/L		109	64 - 138
Ethylbenzene	ND	FH	5.00	6.34	FH	ug/L		127	80 - 120
Methyl tert-butyl ether	ND		5.00	5.00		ug/L		100	69 - 120
Methylene Chloride	ND		5.00	5.67		ug/L		113	80 - 120
Styrene	ND		5.00	5.93		ug/L		119	80 - 120
Tetrachloroethene	4.3	FH	5.00	10.3	FH	ug/L		122	80 - 120
Toluene	ND	FH	5.00	6.37	FH	ug/L		127	80 - 120
trans-1,2-Dichloroethene	ND		5.00	5.63		ug/L		112	80 - 122
trans-1,3-Dichloropropene	ND		5.00	5.58		ug/L		112	61 - 129
Trichloroethene	0.94		5.00	6.43		ug/L		110	80 - 120
Vinyl chloride	ND		5.00	5.40		ug/L		108	60 - 125
Xylenes, Total	ND	FH	15.0	18.4	FH	ug/L		123	80 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	92		80 - 120
Toluene-d8 (Surr)	108		80 - 120

QC Sample Results

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

Job ID: 410-127761-1

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

Lab Sample ID: 410-127761-6 MSD

Matrix: Water

Analysis Batch: 381658

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

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,1,1,2-Tetrachloroethane	ND		5.00	5.68		ug/L		113	71 - 134	1	30
1,1,1-Trichloroethane	0.22	J	5.00	5.61		ug/L		108	78 - 126	1	30
1,1,2,2-Tetrachloroethane	ND		5.00	5.94		ug/L		119	75 - 123	3	30
1,1,2-Trichloroethane	ND		5.00	5.50		ug/L		110	80 - 120	3	30
1,1-Dichloroethane	ND		5.00	5.73		ug/L		115	74 - 120	0	30
1,1-Dichloroethene	0.16	J	5.00	6.29		ug/L		122	80 - 131	2	30
1,2-Dibromoethane (EDB)	ND		5.00	5.55		ug/L		111	80 - 120	0	30
1,2-Dichloroethane	ND		5.00	4.65		ug/L		93	69 - 122	0	30
1,2-Dichloropropane	ND		5.00	5.79		ug/L		116	80 - 120	1	30
2-Butanone (MEK)	ND		62.6	68.3		ug/L		109	59 - 141	3	30
2-Hexanone	ND		62.6	69.7		ug/L		111	52 - 140	4	30
4-Methyl-2-pentanone (MIBK)	ND		62.6	68.6		ug/L		110	55 - 140	4	30
Acetone	1.4	J	62.6	66.0		ug/L		103	60 - 146	6	30
Benzene	ND		5.00	5.93		ug/L		118	80 - 120	0	30
Bromochloromethane	ND		5.00	5.21		ug/L		104	80 - 120	1	30
Bromodichloromethane	ND		5.00	5.06		ug/L		101	73 - 124	2	30
Bromoform	ND		5.00	4.77		ug/L		95	49 - 144	1	30
Bromomethane	ND		5.00	4.73		ug/L		95	60 - 136	4	30
Carbon disulfide	ND		5.00	6.04		ug/L		121	67 - 130	1	30
Carbon tetrachloride	ND		5.00	5.51		ug/L		110	64 - 141	1	30
Chlorobenzene	ND		5.00	5.71		ug/L		114	80 - 120	2	30
Chloroethane	ND		5.00	5.01		ug/L		100	63 - 120	2	30
Chloroform	0.24	J	5.00	5.55		ug/L		106	80 - 120	0	30
Chloromethane	ND		5.00	5.22		ug/L		104	80 - 120	4	30
cis-1,2-Dichloroethene	0.94		5.00	6.63		ug/L		114	80 - 122	3	30
cis-1,3-Dichloropropene	ND		5.00	5.07		ug/L		101	67 - 121	2	30
Dibromochloromethane	ND		5.00	5.28		ug/L		106	64 - 138	3	30
Ethylbenzene	ND	FH	5.00	6.22	FH	ug/L		124	80 - 120	2	30
Methyl tert-butyl ether	ND		5.00	4.99		ug/L		100	69 - 120	0	30
Methylene Chloride	ND		5.00	5.67		ug/L		113	80 - 120	0	30
Styrene	ND		5.00	5.84		ug/L		117	80 - 120	2	30
Tetrachloroethene	4.3	FH	5.00	10.2		ug/L		119	80 - 120	1	30
Toluene	ND	FH	5.00	6.13	FH	ug/L		122	80 - 120	4	30
trans-1,2-Dichloroethene	ND		5.00	5.59		ug/L		112	80 - 122	1	30
trans-1,3-Dichloropropene	ND		5.00	5.45		ug/L		109	61 - 129	2	30
Trichloroethene	0.94		5.00	6.36		ug/L		108	80 - 120	1	30
Vinyl chloride	ND		5.00	5.10		ug/L		102	60 - 125	6	30
Xylenes, Total	ND	FH	15.0	18.0		ug/L		120	80 - 120	2	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	92		80 - 120
Toluene-d8 (Surr)	106		80 - 120

QC Sample Results

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

Job ID: 410-127761-1

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

Lab Sample ID: MB 410-382118/7
 Matrix: Water
 Analysis Batch: 382118

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/01/23 22:13	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 22:13	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/01/23 22:13	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/01/23 22:13	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/01/23 22:13	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 22:13	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/01/23 22:13	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/01/23 22:13	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/01/23 22:13	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/01/23 22:13	1
2-Hexanone	ND		5.0	0.10	ug/L			06/01/23 22:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/01/23 22:13	1
Acetone	ND		5.0	1.0	ug/L			06/01/23 22:13	1
Benzene	ND		0.50	0.10	ug/L			06/01/23 22:13	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/01/23 22:13	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/01/23 22:13	1
Bromoform	ND		1.0	0.30	ug/L			06/01/23 22:13	1
Bromomethane	ND		0.50	0.10	ug/L			06/01/23 22:13	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/01/23 22:13	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/01/23 22:13	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/01/23 22:13	1
Chloroethane	ND		0.50	0.10	ug/L			06/01/23 22:13	1
Chloroform	ND		0.50	0.090	ug/L			06/01/23 22:13	1
Chloromethane	ND		0.50	0.10	ug/L			06/01/23 22:13	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			06/01/23 22:13	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/01/23 22:13	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/01/23 22:13	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/01/23 22:13	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/01/23 22:13	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/01/23 22:13	1
Styrene	ND		0.50	0.070	ug/L			06/01/23 22:13	1
Tetrachloroethene	ND		0.50	0.20	ug/L			06/01/23 22:13	1
Toluene	ND		0.50	0.080	ug/L			06/01/23 22:13	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/01/23 22:13	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/01/23 22:13	1
Trichloroethene	ND		0.50	0.080	ug/L			06/01/23 22:13	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/01/23 22:13	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/01/23 22:13	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	97		80 - 120		06/01/23 22:13	1
4-Bromofluorobenzene (Surr)	98		80 - 120		06/01/23 22:13	1
Dibromofluoromethane (Surr)	89		80 - 120		06/01/23 22:13	1
Toluene-d8 (Surr)	112		80 - 120		06/01/23 22:13	1

QC Sample Results

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

Job ID: 410-127761-1

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

Lab Sample ID: LCS 410-382118/4
Matrix: Water
Analysis Batch: 382118

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier			Limits	
1,1,1,2-Tetrachloroethane	5.00	5.11		ug/L		102	71 - 134
1,1,1-Trichloroethane	5.00	4.17		ug/L		83	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.92		ug/L		118	75 - 123
1,1,2-Trichloroethane	5.00	5.28		ug/L		106	80 - 120
1,1-Dichloroethane	5.00	4.46		ug/L		89	74 - 120
1,1-Dichloroethene	5.00	4.64		ug/L		93	80 - 131
1,2-Dibromoethane (EDB)	5.00	5.26		ug/L		105	80 - 120
1,2-Dichloroethane	5.00	4.03		ug/L		81	69 - 122
1,2-Dichloropropane	5.00	4.72		ug/L		94	80 - 120
2-Butanone (MEK)	62.5	66.5		ug/L		106	59 - 141
2-Hexanone	62.5	66.8		ug/L		107	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	68.3		ug/L		109	55 - 140
Acetone	62.5	63.3		ug/L		101	60 - 146
Benzene	5.00	4.71		ug/L		94	80 - 120
Bromochloromethane	5.00	4.27		ug/L		85	80 - 120
Bromodichloromethane	5.00	4.21		ug/L		84	73 - 124
Bromoform	5.00	4.45		ug/L		89	49 - 144
Bromomethane	5.00	3.61		ug/L		72	60 - 136
Carbon disulfide	5.00	4.54		ug/L		91	67 - 130
Carbon tetrachloride	5.00	4.13		ug/L		83	64 - 141
Chlorobenzene	5.00	5.18		ug/L		104	80 - 120
Chloroethane	5.00	3.88		ug/L		78	63 - 120
Chloroform	5.00	4.31		ug/L		86	80 - 120
Chloromethane	5.00	3.82		ug/L		76	56 - 124
cis-1,2-Dichloroethene	5.00	4.51		ug/L		90	80 - 122
cis-1,3-Dichloropropene	5.00	4.21		ug/L		84	67 - 121
Dibromochloromethane	5.00	4.98		ug/L		100	64 - 138
Ethylbenzene	5.00	5.51		ug/L		110	80 - 120
Methyl tert-butyl ether	5.00	4.19		ug/L		84	69 - 120
Methylene Chloride	5.00	4.55		ug/L		91	80 - 120
Styrene	5.00	5.24		ug/L		105	80 - 120
Tetrachloroethene	5.00	5.01		ug/L		100	80 - 120
Toluene	5.00	5.61		ug/L		112	80 - 120
trans-1,2-Dichloroethene	5.00	4.29		ug/L		86	80 - 122
trans-1,3-Dichloropropene	5.00	5.32		ug/L		106	61 - 129
Trichloroethene	5.00	4.29		ug/L		86	80 - 120
Vinyl chloride	5.00	3.61		ug/L		72	60 - 125
Xylenes, Total	15.0	16.0		ug/L		107	80 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	93		80 - 120
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	88		80 - 120
Toluene-d8 (Surr)	115		80 - 120

QC Sample Results

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

Job ID: 410-127761-1

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

Lab Sample ID: LCSD 410-382118/5
 Matrix: Water
 Analysis Batch: 382118

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

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		
1,1,1,2-Tetrachloroethane	5.00	5.07		ug/L		101	71 - 134	1	30
1,1,1-Trichloroethane	5.00	4.13		ug/L		83	78 - 126	1	30
1,1,2,2-Tetrachloroethane	5.00	5.89		ug/L		118	75 - 123	1	30
1,1,2-Trichloroethane	5.00	5.35		ug/L		107	80 - 120	1	30
1,1-Dichloroethane	5.00	4.38		ug/L		88	74 - 120	2	30
1,1-Dichloroethene	5.00	4.57		ug/L		91	80 - 131	2	30
1,2-Dibromoethane (EDB)	5.00	5.26		ug/L		105	80 - 120	0	30
1,2-Dichloroethane	5.00	3.81		ug/L		76	69 - 122	6	30
1,2-Dichloropropane	5.00	4.77		ug/L		95	80 - 120	1	30
2-Butanone (MEK)	62.5	66.5		ug/L		106	59 - 141	0	30
2-Hexanone	62.5	66.5		ug/L		106	52 - 140	0	30
4-Methyl-2-pentanone (MIBK)	62.5	64.2		ug/L		103	55 - 140	6	30
Acetone	62.5	63.5		ug/L		102	60 - 146	0	30
Benzene	5.00	4.66		ug/L		93	80 - 120	1	30
Bromochloromethane	5.00	4.21		ug/L		84	80 - 120	1	30
Bromodichloromethane	5.00	4.23		ug/L		85	73 - 124	0	30
Bromoform	5.00	4.41		ug/L		88	49 - 144	1	30
Bromomethane	5.00	3.61		ug/L		72	60 - 136	0	30
Carbon disulfide	5.00	4.37		ug/L		87	67 - 130	4	30
Carbon tetrachloride	5.00	4.06		ug/L		81	64 - 141	2	30
Chlorobenzene	5.00	5.21		ug/L		104	80 - 120	1	30
Chloroethane	5.00	3.73		ug/L		75	63 - 120	4	30
Chloroform	5.00	4.29		ug/L		86	80 - 120	0	30
Chloromethane	5.00	3.52		ug/L		70	56 - 124	8	30
cis-1,2-Dichloroethene	5.00	4.57		ug/L		91	80 - 122	1	30
cis-1,3-Dichloropropene	5.00	4.31		ug/L		86	67 - 121	2	30
Dibromochloromethane	5.00	5.06		ug/L		101	64 - 138	2	30
Ethylbenzene	5.00	5.46		ug/L		109	80 - 120	1	30
Methyl tert-butyl ether	5.00	4.26		ug/L		85	69 - 120	2	30
Methylene Chloride	5.00	4.55		ug/L		91	80 - 120	0	30
Styrene	5.00	5.33		ug/L		107	80 - 120	2	30
Tetrachloroethene	5.00	4.97		ug/L		99	80 - 120	1	30
Toluene	5.00	5.54		ug/L		111	80 - 120	1	30
trans-1,2-Dichloroethene	5.00	4.23		ug/L		85	80 - 122	1	30
trans-1,3-Dichloropropene	5.00	5.39		ug/L		108	61 - 129	1	30
Trichloroethene	5.00	4.29		ug/L		86	80 - 120	0	30
Vinyl chloride	5.00	3.54		ug/L		71	60 - 125	2	30
Xylenes, Total	15.0	16.2		ug/L		108	80 - 120	1	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	88		80 - 120
Toluene-d8 (Surr)	115		80 - 120

QC Association Summary

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

Job ID: 410-127761-1

GC/MS VOA

Analysis Batch: 381658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-127761-1	HD-COD-SW-6-0/1-0	Total/NA	Water	8260D	
410-127761-2	HD-COD-SW-7-0/1-0	Total/NA	Water	8260D	
410-127761-3	HD-COD-SW-8-0/1-0	Total/NA	Water	8260D	
410-127761-4	HD-COD-SW-9-0/1-0	Total/NA	Water	8260D	
410-127761-5	HD-COD-SW-13-0/1-0	Total/NA	Water	8260D	
410-127761-6	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	
410-127761-7	HD-COD-SW-16-0/1-0	Total/NA	Water	8260D	
410-127761-8	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-127761-9	HD-COD-SW-26-0/1-0	Total/NA	Water	8260D	
410-127761-10	HD-COD-SW-27-0/1-0	Total/NA	Water	8260D	
410-127761-11	HD-COD-SW-28-0/1-0	Total/NA	Water	8260D	
410-127761-12	HD-COD-SW-29-0/1-0	Total/NA	Water	8260D	
410-127761-13	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-127761-14	HD-QC1-0/1-2	Total/NA	Water	8260D	
MB 410-381658/6	Method Blank	Total/NA	Water	8260D	
LCS 410-381658/4	Lab Control Sample	Total/NA	Water	8260D	
410-127761-6 MS	HD-COD-SW-15-0/1-0 MS	Total/NA	Water	8260D	
410-127761-6 MSD	HD-COD-SW-15-0/1-0 MSD	Total/NA	Water	8260D	

Analysis Batch: 382118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-127761-8 - DL	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-127761-13 - DL	HD-QC1-0/1-1	Total/NA	Water	8260D	
MB 410-382118/7	Method Blank	Total/NA	Water	8260D	
LCS 410-382118/4	Lab Control Sample	Total/NA	Water	8260D	
LCS 410-382118/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 410-127761-1

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

Lab Sample ID: 410-127761-1

Date Collected: 05/23/23 10:33

Matrix: Water

Date Received: 05/23/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	381658	JS6E	ELLE	06/01/23 01:35

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

Lab Sample ID: 410-127761-2

Date Collected: 05/23/23 11:10

Matrix: Water

Date Received: 05/23/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	381658	JS6E	ELLE	06/01/23 01:58

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

Lab Sample ID: 410-127761-3

Date Collected: 05/23/23 09:20

Matrix: Water

Date Received: 05/23/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	381658	JS6E	ELLE	06/01/23 02:20

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

Lab Sample ID: 410-127761-4

Date Collected: 05/23/23 12:55

Matrix: Water

Date Received: 05/23/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	381658	JS6E	ELLE	06/01/23 02:42

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

Lab Sample ID: 410-127761-5

Date Collected: 05/23/23 09:45

Matrix: Water

Date Received: 05/23/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	381658	JS6E	ELLE	06/01/23 03:04

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

Lab Sample ID: 410-127761-6

Date Collected: 05/23/23 11:38

Matrix: Water

Date Received: 05/23/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	381658	JS6E	ELLE	05/31/23 22:59

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

Lab Sample ID: 410-127761-7

Date Collected: 05/23/23 10:05

Matrix: Water

Date Received: 05/23/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	381658	JS6E	ELLE	06/01/23 03:27

Lab Chronicle

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

Job ID: 410-127761-1

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

Lab Sample ID: 410-127761-8

Date Collected: 05/23/23 10:15

Matrix: Water

Date Received: 05/23/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	381658	JS6E	ELLE	06/01/23 03:49
Total/NA	Analysis	8260D	DL	10	382118	JS6E	ELLE	06/02/23 02:40

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

Lab Sample ID: 410-127761-9

Date Collected: 05/23/23 10:56

Matrix: Water

Date Received: 05/23/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	381658	JS6E	ELLE	06/01/23 04:11

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

Lab Sample ID: 410-127761-10

Date Collected: 05/23/23 11:30

Matrix: Water

Date Received: 05/23/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	381658	JS6E	ELLE	06/01/23 04:34

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

Lab Sample ID: 410-127761-11

Date Collected: 05/23/23 13:08

Matrix: Water

Date Received: 05/23/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	381658	JS6E	ELLE	06/01/23 04:56

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

Lab Sample ID: 410-127761-12

Date Collected: 05/23/23 09:07

Matrix: Water

Date Received: 05/23/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	381658	JS6E	ELLE	06/01/23 05:18

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

Lab Sample ID: 410-127761-13

Date Collected: 05/23/23 12:00

Matrix: Water

Date Received: 05/23/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	381658	JS6E	ELLE	06/01/23 05:40
Total/NA	Analysis	8260D	DL	10	382118	JS6E	ELLE	06/02/23 03:03

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

Lab Sample ID: 410-127761-14

Date Collected: 05/23/23 00:00

Matrix: Water

Date Received: 05/23/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	381658	JS6E	ELLE	05/31/23 22:37

Lab Chronicle

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

Job ID: 410-127761-1

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: 410-127761-1

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	01-31-24

Method Summary

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

Job ID: 410-127761-1

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: 410-127761-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-127761-1	HD-COD-SW-6-0/1-0	Water	05/23/23 10:33	05/23/23 16:35
410-127761-2	HD-COD-SW-7-0/1-0	Water	05/23/23 11:10	05/23/23 16:35
410-127761-3	HD-COD-SW-8-0/1-0	Water	05/23/23 09:20	05/23/23 16:35
410-127761-4	HD-COD-SW-9-0/1-0	Water	05/23/23 12:55	05/23/23 16:35
410-127761-5	HD-COD-SW-13-0/1-0	Water	05/23/23 09:45	05/23/23 16:35
410-127761-6	HD-COD-SW-15-0/1-0	Water	05/23/23 11:38	05/23/23 16:35
410-127761-7	HD-COD-SW-16-0/1-0	Water	05/23/23 10:05	05/23/23 16:35
410-127761-8	HD-COD-SW-17-0/1-0	Water	05/23/23 10:15	05/23/23 16:35
410-127761-9	HD-COD-SW-26-0/1-0	Water	05/23/23 10:56	05/23/23 16:35
410-127761-10	HD-COD-SW-27-0/1-0	Water	05/23/23 11:30	05/23/23 16:35
410-127761-11	HD-COD-SW-28-0/1-0	Water	05/23/23 13:08	05/23/23 16:35
410-127761-12	HD-COD-SW-29-0/1-0	Water	05/23/23 09:07	05/23/23 16:35
410-127761-13	HD-QC1-0/1-1	Water	05/23/23 12:00	05/23/23 16:35
410-127761-14	HD-QC1-0/1-2	Water	05/23/23 00:00	05/23/23 16:35

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-127761-1

SDG No.: _____

Instrument ID: 10193 Analysis Batch Number: 370594Lab Sample ID: IC 410-370594/3 Client Sample ID: _____Date Analyzed: 05/01/23 15:17 Lab File ID: CY01X02.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.45	Incomplete Integration	DVW2	05/02/23 08:11
Vinyl acetate	4.64	Incomplete Integration	DVW2	05/02/23 07:46
cis-1,4-Dichloro-2-butene	11.80	Incomplete Integration	DVW2	05/02/23 08:13

Lab Sample ID: IC 410-370594/4 Client Sample ID: _____Date Analyzed: 05/01/23 15:40 Lab File ID: CY01X03.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.53	Incomplete Integration	DVW2	05/02/23 08:12
cis-1,4-Dichloro-2-butene	11.79	Incomplete Integration	DVW2	05/02/23 07:48
Cyclohexanone	11.79	Incomplete Integration	DVW2	05/02/23 07:48

Lab Sample ID: IC 410-370594/5 Client Sample ID: _____Date Analyzed: 05/01/23 16:02 Lab File ID: CY01X04.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.53	Incomplete Integration	DVW2	05/02/23 07:49
Vinyl acetate	4.59	Incomplete Integration	DVW2	05/02/23 07:49
cis-1,4-Dichloro-2-butene	11.79	Incomplete Integration	DVW2	05/02/23 07:49
Cyclohexanone	11.79	Incomplete Integration	DVW2	05/02/23 07:49

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-127761-1

SDG No.: _____

Instrument ID: 10193 Analysis Batch Number: 370594

Lab Sample ID: IC 410-370594/6 Client Sample ID: _____

Date Analyzed: 05/01/23 16:24 Lab File ID: CY01X05.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.46	Incomplete Integration	DVW2	05/02/23 08:14
Vinyl acetate	4.58	Incomplete Integration	DVW2	05/02/23 07:49
Cyclohexanone	11.74	Incomplete Integration	DVW2	05/02/23 08:15
cis-1,4-Dichloro-2-butene	11.79	Incomplete Integration	DVW2	05/02/23 07:50

Lab Sample ID: IC 410-370594/7 Client Sample ID: _____

Date Analyzed: 05/01/23 16:47 Lab File ID: CY01X06.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.47	Incomplete Integration	DVW2	05/02/23 08:15
Vinyl acetate	4.57	Incomplete Integration	DVW2	05/02/23 07:50
cis-1,4-Dichloro-2-butene	11.79	Incomplete Integration	DVW2	05/02/23 07:50

Lab Sample ID: IC 410-370594/8 Client Sample ID: _____

Date Analyzed: 05/01/23 17:09 Lab File ID: CY01X07.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.44	Incomplete Integration	DVW2	05/02/23 08:16
Vinyl acetate	4.57	Incomplete Integration	DVW2	05/02/23 07:50
cis-1,4-Dichloro-2-butene	11.79	Incomplete Integration	DVW2	05/02/23 07:51

Lab Sample ID: IC 410-370594/9 Client Sample ID: _____

Date Analyzed: 05/01/23 17:31 Lab File ID: CY01X08.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl acetate	4.56	Incomplete Integration	DVW2	05/02/23 07:51
cis-1,4-Dichloro-2-butene	11.79	Incomplete Integration	DVW2	05/02/23 07:52

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-127761-1

SDG No.: _____

Instrument ID: 10193 Analysis Batch Number: 370594Lab Sample ID: IC 410-370594/13 Client Sample ID: _____Date Analyzed: 05/01/23 19:00 Lab File ID: CY01X12.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.73	Incomplete Integration	DVW2	05/02/23 07:56
1,3-Butadiene	2.01	Incomplete Integration	DVW2	05/02/23 07:56
Methylene Chloride	3.61	Incomplete Integration	DVW2	05/02/23 07:57
trans-1,2-Dichloroethene	3.96	Incomplete Integration	DVW2	05/02/23 07:57
di-Isopropyl ether	4.67	Incomplete Integration	DVW2	05/02/23 07:57
Ethyl t-butyl ether	5.21	Incomplete Integration	DVW2	05/02/23 07:57
2,2-Dichloropropane	5.45	Incomplete Integration	DVW2	05/02/23 07:57
Propionitrile	5.60	Incomplete Integration	DVW2	05/02/23 07:58
Isobutyl alcohol	6.73	Incomplete Integration	DVW2	05/02/23 07:58
1,4-Dioxane	8.04	Incomplete Integration	DVW2	05/02/23 07:58
1,1,2-Trichloroethane	9.77	Incomplete Integration	DVW2	05/02/23 07:59
1,1,2,2-Tetrachloroethane	11.91	Baseline	UKEK	05/03/23 08:24

Lab Sample ID: IC 410-370594/14 Client Sample ID: _____Date Analyzed: 05/01/23 19:22 Lab File ID: CY01X13.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.45	Incomplete Integration	DVW2	05/02/23 08:00
Acrylonitrile	3.95	Incomplete Integration	DVW2	05/02/23 08:00
2,2-Dichloropropane	5.44	Incomplete Integration	DVW2	05/02/23 08:01
Isobutyl alcohol	6.65	Incomplete Integration	DVW2	05/02/23 08:01
n-Butanol	7.73	Incomplete Integration	DVW2	05/02/23 08:01
1,4-Dioxane	8.04	Incomplete Integration	DVW2	05/02/23 08:01

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-127761-1

SDG No.: _____

Instrument ID: 10193 Analysis Batch Number: 370594Lab Sample ID: IC 410-370594/15 Client Sample ID: _____Date Analyzed: 05/01/23 19:45 Lab File ID: CY01X14.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.72	Incomplete Integration	DVW2	05/02/23 08:02
n-Butanol	7.62	Incomplete Integration	DVW2	05/02/23 08:03

Lab Sample ID: IC 410-370594/16 Client Sample ID: _____Date Analyzed: 05/01/23 20:07 Lab File ID: CY01X15.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.72	Incomplete Integration	DVW2	05/02/23 08:04
Tetrahydrofuran	5.81	Incomplete Integration	DVW2	05/02/23 08:04

Lab Sample ID: IC 410-370594/17 Client Sample ID: _____Date Analyzed: 05/01/23 20:29 Lab File ID: CY01X16.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.72	Incomplete Integration	DVW2	05/02/23 08:05

Lab Sample ID: ICIS 410-370594/18 Client Sample ID: _____Date Analyzed: 05/01/23 20:52 Lab File ID: CY01X17.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.43	Incomplete Integration	DVW2	05/02/23 13:46

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-127761-1

SDG No.: _____

Instrument ID: 10193 Analysis Batch Number: 370594Lab Sample ID: IC 410-370594/19 Client Sample ID: _____Date Analyzed: 05/01/23 21:14 Lab File ID: CY01X18.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.72	Incomplete Integration	DVW2	05/02/23 08:06
Carbon disulfide	3.32	Incomplete Integration	DVW2	05/02/23 08:07
Methyl acetate	3.42	Incomplete Integration	DVW2	05/02/23 08:07
t-Butyl alcohol-d10 (IS)	3.65	Incomplete Integration	DVW2	05/02/23 08:07

Lab Sample ID: ICV 410-370594/21 Client Sample ID: _____Date Analyzed: 05/01/23 21:58 Lab File ID: CY01X20.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.73	Incomplete Integration	DVW2	05/02/23 07:54

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-127761-1

SDG No.: _____

Instrument ID: 10193 Analysis Batch Number: 381658Lab Sample ID: CCVIS 410-381658/3 Client Sample ID: _____Date Analyzed: 05/31/23 21:08 Lab File ID: CY31X02.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.72	Missed Peak	JS6E	05/31/23 21:32
Carbon disulfide	3.28	Incomplete Integration	JS6E	05/31/23 21:33

Lab Sample ID: LCS 410-381658/4 Client Sample ID: _____Date Analyzed: 05/31/23 21:30 Lab File ID: CY31X03.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.29	Incomplete Integration	JS6E	05/31/23 21:51

Lab Sample ID: MB 410-381658/6 Client Sample ID: _____Date Analyzed: 05/31/23 22:15 Lab File ID: CY31X05.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Bromofluorobenzene (Surr)	11.79	Missed Peak	JS6E	05/31/23 22:39

Lab Sample ID: 410-127761-6 Client Sample ID: HD-COD-SW-15-0/1-0Date Analyzed: 05/31/23 22:59 Lab File ID: CY31X07.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethane	4.59	Incomplete Integration	kaewrungr ueangp	06/01/23 14:56

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-127761-1

SDG No.: _____

Instrument ID: 10193 Analysis Batch Number: 381658Lab Sample ID: 410-127761-6 MS Client Sample ID: HD-COD-SW-15-0/1-0 MS MSDate Analyzed: 05/31/23 23:22 Lab File ID: CY31X08.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.28	Incomplete Integration	kaewrungr ueangp	06/01/23 15:01

Lab Sample ID: 410-127761-6 MSD Client Sample ID: HD-COD-SW-15-0/1-0 MSD MSDDate Analyzed: 05/31/23 23:44 Lab File ID: CY31X09.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.28	Incomplete Integration	kaewrungr ueangp	06/01/23 15:09

Lab Sample ID: 410-127761-1 Client Sample ID: HD-COD-SW-6-0/1-0Date Analyzed: 06/01/23 01:35 Lab File ID: CY31X14.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.57	Incomplete Integration	kaewrungr ueangp	06/01/23 15:13

Lab Sample ID: 410-127761-2 Client Sample ID: HD-COD-SW-7-0/1-0Date Analyzed: 06/01/23 01:58 Lab File ID: CY31X15.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrachloroethene	9.85	Incomplete Integration	kaewrungr ueangp	06/01/23 15:14

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-127761-1

SDG No.: _____

Instrument ID: 10193 Analysis Batch Number: 381658Lab Sample ID: 410-127761-4 Client Sample ID: HD-COD-SW-9-0/1-0Date Analyzed: 06/01/23 02:42 Lab File ID: CY31X17.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.56	Incomplete Integration	kaewrungr ueangp	06/01/23 15:15

Lab Sample ID: 410-127761-7 Client Sample ID: HD-COD-SW-16-0/1-0Date Analyzed: 06/01/23 03:27 Lab File ID: CY31X19.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.57	Incomplete Integration	kaewrungr ueangp	06/01/23 15:16
1,1,1-Trichloroethane		Invalid Compound ID	kaewrungr ueangp	06/01/23 15:16

Lab Sample ID: 410-127761-8 Client Sample ID: HD-COD-SW-17-0/1-0Date Analyzed: 06/01/23 03:49 Lab File ID: CY31X20.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloroethane		Invalid Compound ID	kaewrungr ueangp	06/01/23 15:17

Lab Sample ID: 410-127761-10 Client Sample ID: HD-COD-SW-27-0/1-0Date Analyzed: 06/01/23 04:34 Lab File ID: CY31X22.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.56	Incomplete Integration	kaewrungr ueangp	06/01/23 16:10

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-127761-1

SDG No.: _____

Instrument ID: 10193 Analysis Batch Number: 381658Lab Sample ID: 410-127761-11 Client Sample ID: HD-COD-SW-28-0/1-0Date Analyzed: 06/01/23 04:56 Lab File ID: CY31X23.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.10	Incomplete Integration	DVW2	06/01/23 14:16
Carbon disulfide	3.30	Incomplete Integration	DVW2	06/01/23 14:16

Lab Sample ID: 410-127761-12 Client Sample ID: HD-COD-SW-29-0/1-0Date Analyzed: 06/01/23 05:18 Lab File ID: CY31X24.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.29	Incomplete Integration	DVW2	06/01/23 14:17
Trichloroethene	7.56	Incomplete Integration	DVW2	06/01/23 14:18

Lab Sample ID: 410-127761-13 Client Sample ID: HD-QC1-0/1-1Date Analyzed: 06/01/23 05:40 Lab File ID: CY31X25.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide		Incomplete Integration	DVW2	06/01/23 14:18

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-127761-1

SDG No.: _____

Instrument ID: 10193 Analysis Batch Number: 382118Lab Sample ID: CCVIS 410-382118/3 Client Sample ID: _____Date Analyzed: 06/01/23 20:41 Lab File ID: CU01X02.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.73	Incomplete Integration	JS6E	06/01/23 21:09
Carbon disulfide	3.29	Incomplete Integration	JS6E	06/01/23 21:10
Methyl acetate	3.42	Incomplete Integration	JS6E	06/01/23 21:15

Lab Sample ID: LCS 410-382118/4 Client Sample ID: _____Date Analyzed: 06/01/23 21:04 Lab File ID: CU01X03.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.29	Incomplete Integration	JS6E	06/01/23 21:27

Lab Sample ID: MB 410-382118/7 Client Sample ID: _____Date Analyzed: 06/01/23 22:13 Lab File ID: CU01X06.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Bromofluorobenzene (Surr)	11.79	Missed Peak	JS6E	06/01/23 22:41

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-127761-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_CCV_CYC_00005	06/23/23	01/23/23	50/50 MeOH/Water, Lot EB679	200 mL	MSV_VCYC_STK_00009	9.615 mL	Cyclohexanone	6249.75 ug/mL
.MSV_VCYC_STK_00009	06/23/23	01/23/23	50/50 MeOH/Water, Lot EB679	10 mL	MSV_CYC_00008	1.3 g	Cyclohexanone	130000 ug/mL
..MSV_CYC_00008	06/30/25		Chem Service, Lot 13529800		(Purchased Reagent)		Cyclohexanone	1 g/g
MSV_CCV_V5ACE_00023	05/05/23	04/06/23	Methanol, Lot EB679	10 mL	MSV_AcetatesV_00034	1 mL	Acetonitrile	5000 ug/mL
							Ethyl acetate	1000 ug/mL
							Vinyl acetate	1000 ug/mL
.MSV_AcetatesV_00034	05/05/23		Restek, Lot A0184542		(Purchased Reagent)		Acetonitrile	50000 ug/mL
							Ethyl acetate	10000 ug/mL
							Vinyl acetate	10000 ug/mL
MSV_DME_00047	05/19/23		Restek, Lot A0190883		(Purchased Reagent)		Dimethyl ether	1000 ug/mL
MSV_HP25_ISO_00008	10/10/23	04/10/23	Methanol, Lot EG095	10 mL	MSV_Cus826_IS_00555	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
.MSV_Cus826_IS_00555	04/30/25		Restek, Lot A0184225		(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_HP25_ISSS_00068	10/10/23	04/10/23	Methanol, Lot EG095	10 mL	MSV_8260_SS_00885	1 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
					MSV_Cus826_IS_00555	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
.MSV_8260_SS_00885	03/31/25		Restek, Lot A0183565		(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_00555	04/30/25		Restek, Lot A0184225		(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_HP25_ISSS_00070	11/21/23	05/21/23	Methanol, Lot EG095	10 mL	MSV_Cus826_IS_00567	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
.MSV_Cus826_IS_00567	04/30/25		Restek, Lot A0184225		(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_HP25_ISSS_00070	11/21/23	05/21/23	Methanol, Lot EG095	10 mL	MSV_8260_SS_00924	1 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-127761-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_8260_SS_00924	03/31/25		Restek, Lot A0183565		(Purchased Reagent)		Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
							1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
MSV_HP25_ISSS_00071	12/01/23	06/01/23	Methanol, Lot EG095	10 mL	MSV_Cus826_IS_00569	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
							1,4-Dichlorobenzene-d4	2500 ug/mL
.MSV_Cus826_IS_00569	12/01/23		Restek, Lot A0184225		(Purchased Reagent)		Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
							1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
MSV_HP25_ISSS_00071	12/01/23	06/01/23	Methanol, Lot EG095	10 mL	MSV_8260_SS_00929	1 mL	1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
							1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
.MSV_8260_SS_00929	12/01/23		Restek, Lot A0195060		(Purchased Reagent)		4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
							1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
MSV_LCS_VOC#1_00107	05/30/23	04/30/23	Methanol, Lot EG095	25 mL	MSV_M_MIX1SEC_00127	1 mL	1,1,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	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							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-127761-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration							
					Reagent ID	Volume Added									
							trans-1,3-Dichloropropene	40 ug/mL							
							Trichloroethene	40 ug/mL							
							MSV_M_MIX2SEC_00126	1 mL	Carbon disulfide	40 ug/mL					
												Methyl tert-butyl ether	40 ug/mL		
												MSV_Q_Ketones_00127	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							
.MSV_M_MIX1SEC_00127	04/30/25		Restek, Lot A0184354		(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_00126	04/30/25		Restek, Lot A0184412		(Purchased Reagent)		Carbon disulfide	1000 ug/mL							
							Methyl tert-butyl ether	1000 ug/mL							
.MSV_Q_Ketones_00127	04/30/25		Restek, Lot A0184721		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL							
							2-Hexanone	12500 ug/mL							
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL							
							Acetone	12500 ug/mL							
MSV_LCS_VOC#1_00111	06/27/23	05/28/23	Methanol, Lot EG095	25 mL	MSV_M_MIX1SEC_00142	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							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-127761-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromoethane (EDB)	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_00130	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00132	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
.MSV_M_MIX1SEC_00142	04/30/25		Restek, Lot A0184354			(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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-127761-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00130	04/30/25		Restek, Lot A0184412		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00132	04/30/25		Restek, Lot A0184721		(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_00075	05/23/23	05/01/23	Methanol, Lot EG095	1 mL	MSV_CCV_VOC#1_00123	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-127761-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							2-Nitropropane	250 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Acrylonitrile	125 ug/mL
							Benzyl chloride	50 ug/mL
							Carbon disulfide	50 ug/mL
							Cyclohexane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropyl ether	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl acetate	50 ug/mL
							Methyl methacrylate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							n-Butanol	4375 ug/mL
							n-Heptane	50 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
							Tetrahydrofuran	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-127761-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSV_CCV_VOC#3_00123	200 uL	trans-1,4-Dichloro-2-butene	500 ug/mL
							Acrolein	2500.06 ug/mL
							2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					MSV_V_VOA2_00191	150 uL	1,4-Dioxane	2500 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	4375 ug/mL
							Propionitrile	1000 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
							1,1,1,2-Tetrachloroethane	1000 ug/mL
.MSV_CCV_VOC#1_00123	05/30/23	04/30/23	Methanol, Lot EG095	5 mL	MSV_MegaMIX#1_00123	1 mL	1,1,1-Trichloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropene	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropene	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							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-127761-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00112	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 Envir Job No.: 410-127761-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MSV_MegaMIX#1_00123	05/30/25		Restek, Lot A0184527			(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-Chloropropene	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropene	5000 ug/mL
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropene	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropene	5000 ug/mL
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
	m-Xylene & p-Xylene	10000 ug/mL						
	Methylene Chloride	5000 ug/mL						
	n-Butylbenzene	5000 ug/mL						
	N-Propylbenzene	5000 ug/mL						
	Naphthalene	5000 ug/mL						
	o-Xylene	5000 ug/mL						
	sec-Butylbenzene	5000 ug/mL						
	Styrene	5000 ug/mL						

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-127761-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00112	05/30/23		Restek, Lot A0186885		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL
							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_00123	05/30/23	04/30/23	Methanol, Lot EG095	5 mL	MSV_CCV_ACR_00010	0.5 mL	Acrolein	12500.3 ug/mL
					MSV_V_Ketones_00117	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_00010	06/03/23	04/04/23	Methanol, Lot EB679	10 mL	MSV_VACR_STK_00032	8.683 mL	Acrolein	125003 ug/mL
...MSV_VACR_STK_00032	06/03/23	04/04/23	Methanol, Lot EB679	10 mL	MSV_ACROLEIN_00025	1.553 g	Acrolein	143963 ug/mL
...MSV_ACROLEIN_00025	11/30/23		Chem Service, Lot 13892700		(Purchased Reagent)		Acrolein	0.927 g/g
..MSV_V_Ketones_00117	01/31/25		Restek, Lot A0180742		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-127761-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration					
					Reagent ID	Volume Added							
.MSV_V_VOA2_00191	05/23/23	04/23/23	Methanol, Lot EG095	5 mL	MSV_V#2B_00319	1 mL	Acetone	12500 ug/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					
.MSV_V#2B_00319	04/30/24		Restek, Lot A0184378		(Purchased Reagent)		1,4-Dioxane	62500 ug/mL					
							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_00078	06/03/23	05/28/23	Methanol, Lot EG095	1 mL	MSV_CCV_VOC#1_00127	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL					
							1,1,1-Trichloroethane	50 ug/mL					
							1,1,2,2-Tetrachloroethane	50 ug/mL					
							1,1,2-Trichloroethane	50 ug/mL					
							1,1-Dichloroethane	50 ug/mL					
							1,1-Dichloroethene	50 ug/mL					
							1,2-Dibromoethane (EDB)	50 ug/mL					
							1,2-Dichloroethane	50 ug/mL					
							1,2-Dichloropropane	50 ug/mL					
							Benzene	50 ug/mL					
							Bromochloromethane	50 ug/mL					
							Bromodichloromethane	50 ug/mL					
							Bromoform	50 ug/mL					
							Carbon tetrachloride	50 ug/mL					
							Chlorobenzene	50 ug/mL					
							Chloroform	50 ug/mL					
							cis-1,2-Dichloroethene	50 ug/mL					
							cis-1,3-Dichloropropene	50 ug/mL					
							Dibromochloromethane	50 ug/mL					
							Ethylbenzene	50 ug/mL					
							Methylene Chloride	50 ug/mL					
							Styrene	50 ug/mL					
							Tetrachloroethene	50 ug/mL					
							Toluene	50 ug/mL					
							trans-1,2-Dichloroethene	50 ug/mL					
							trans-1,3-Dichloropropene	50 ug/mL					
							Trichloroethene	50 ug/mL					
					Carbon disulfide	50 ug/mL							
					Methyl tert-butyl ether	50 ug/mL							
					MSV_CCV_VOC#3_00127						200 uL	2-Butanone (MEK)	500 ug/mL
												2-Hexanone	500 ug/mL
												4-Methyl-2-pentanone (MIBK)	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-127761-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_CCV_VOC#1_00127	06/27/23	05/28/23	Methanol, Lot EG095	5 mL	MSV_MegaMIX#1_00126	1 mL	Acetone	500 ug/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#1_00126	06/27/23		Restek, Lot A0184527		MSV_MegaMix#2_00122	1 mL	Carbon disulfide	1000 ug/mL
					(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
							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							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-127761-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00122	06/27/23		Restek, Lot A0186885			(Purchased Reagent)	Carbon disulfide	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
.MSV_CCV_VOC#3_00127	06/03/23	05/28/23	Methanol, Lot EG095	5 mL	MSV_V_Ketones_00121	1 mL	2-Butanone (MEK)	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone (MIBK)	2500 ug/mL
							Acetone	2500 ug/mL
..MSV_V_Ketones_00121	01/31/25		Restek, Lot A0186508			(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_00083	05/17/23	05/01/23	Methanol, Lot EG095	1 mL	MSV_CCV_EE_00004	50 uL	Ethyl ether	49.9996 ug/mL
					MSV_V_PentaCL_00043	10 uL	Pentachloroethane	50 ug/mL
.MSV_CCV_EE_00004	05/17/23	11/17/22	Methanol, Lot EB679	50 mL	MSV_EE_MISCSK_00011	1.067 mL	Ethyl ether	999.992 ug/mL
..MSV_EE_MISCSK_00011	05/17/23	11/17/22	Methanol, Lot EB679	10 mL	MSV_EE_Neat_00008	0.4686 g	Ethyl ether	46860 ug/mL
...MSV_EE_Neat_00008	12/31/25		Chem Service, Lot 1326900			(Purchased Reagent)	Ethyl ether	1 g/g
.MSV_V_PentaCL_00043	05/24/23		Restek, Lot A0184174			(Purchased Reagent)	Pentachloroethane	5000 ug/mL
MSV_LL_GAS826_00148	05/08/23	05/01/23	Methanol, Lot EG095	1 mL	MSV_CCV_GASES_00458	25 uL	1,2-Dichloro-1,1,2-trifluoroethane	50 ug/mL
							Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00458	05/08/23		Restek, Lot A0184815			(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_00152	06/04/23	05/28/23	Methanol, Lot EG095	1 mL	MSV_CCV_GASES_00477	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-127761-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00477	06/04/23		Restek, Lot A0184815			(Purchased Reagent)	Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QC_Gas826_00137	05/07/23	05/01/23	Methanol, Lot EG095	1 mL	MSV_QC_2K_GAS_00146	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00146	05/07/23		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_00142	06/04/23	05/28/23	Methanol, Lot EG095	1 mL	MSV_QC_2K_GAS_00145	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00145	06/04/23		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_00011							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Xylenes, Total	
					MSV_VBFB_STK_00009	0.127 mL	BFB	50.1498 ug/mL
.MSV_VBFB_STK_00009	06/18/23	12/18/22	Methanol, Lot EB679	10 mL	MSV_4BFB_NEAT_00007	0.9872 g	BFB	98720 ug/mL
..MSV_4BFB_NEAT_00007	02/28/25		Chem Service, Lot 13233000			(Purchased Reagent)	BFB	1 g/g
MSV_V_SMRV4_00058	05/16/23	04/19/23	Methanol, Lot EG095	1 mL	MSV_CCV_2CEVE_00116	200 uL	2-Chloroethyl vinyl ether	200 ug/mL
					MSV_CCV_LKB_00005	400 uL	cis-1,4-Dichloro-2-butene	400.029 ug/mL
					MSV_V_SMFreeon_00043	100 uL	Chlorodifluoromethane	200 ug/mL
.MSV_CCV_2CEVE_00116	05/16/23	04/16/23	Methanol, Lot EG095	5 mL	MSV_V_2CLEVE_00123	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
..MSV_V_2CLEVE_00123	04/30/25		Restek, Lot A0184487			(Purchased Reagent)	2-Chloroethyl vinyl ether	5000 ug/mL
.MSV_CCV_LKB_00005	06/19/23	02/08/23	Methanol, Lot EB679	50 mL	MSV_Vc14d_STK_00008	0.946 mL	cis-1,4-Dichloro-2-butene	1000.07 ug/mL
..MSV_Vc14d_STK_00008	06/19/23	02/08/23	Methanol, Lot EB679	10 mL	MSV_c14dcb_Nt_00004	0.5564 g	cis-1,4-Dichloro-2-butene	52858 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_SMFreeon_00043	05/29/23		Restek, Lot A0184508			(Purchased Reagent)	Chlorodifluoromethane	2000 ug/mL

Reagent

MSV_4BFB_NEAT_00007

CERTIFICATE OF ANALYSIS

4-Bromofluorobenzene

CATALOG NUMBER N-10809-1G
LOT NUMBER 13233000
DATE CERTIFIED 05/12/22
EXPIRATION DATE 05/31/25
CAS NUMBER 460-00-4
MOLECULAR FORMULA C₆H₄BrF
MOLECULAR WEIGHT 175.00
STORAGE Store at room temperature (20 - 25 °C).
HANDLING See Safety Data Sheet
INTENDED USE For laboratory use only.

<u>Analytical Test</u>	<u>Value</u>
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
% PURITY (GC/FID)	99.5
GC/MS SPECTRA ID	MATCHES NIST LIBRARY

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

Certified By:



Mary Beth O'Donnell
CSM/TC

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



COA Form
Revision 3 (3/2015)

Print Date: 05/16/22

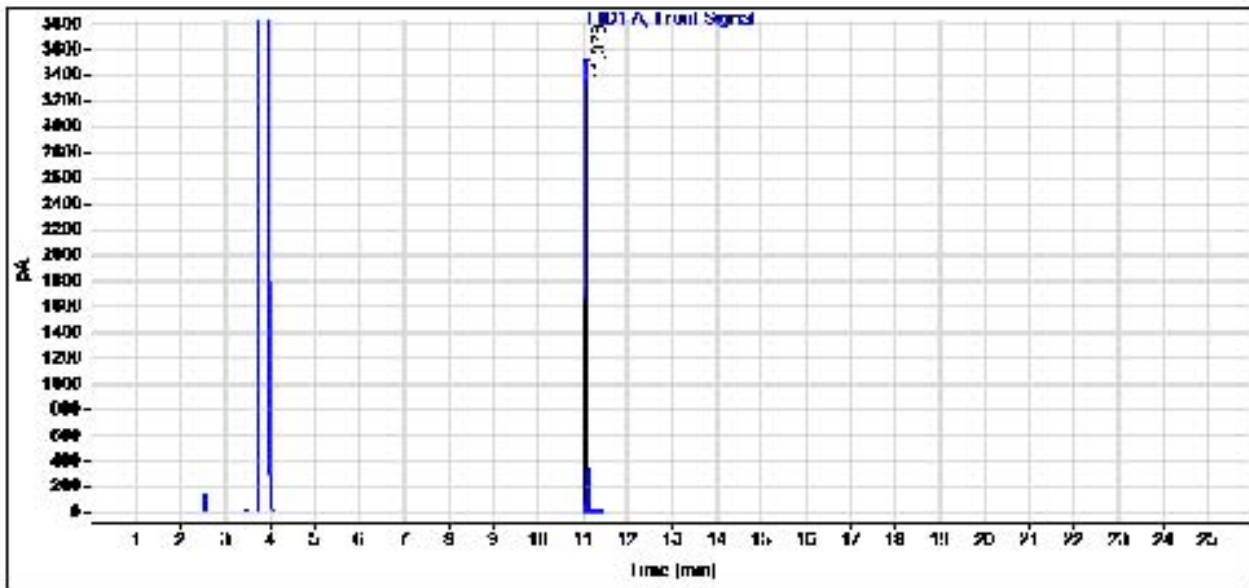
Page 65 of 647

06/05/2023

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2022 DATA\0522\FID010815.D
Sample name: N-10809
Instrument: GC 1
Injection date: 5/12/2022 11:36:15 AM
Acq. method: MIX1.M
Column name: DB-624 (30m x 0.53mm x 3.0um)
Sample type: Sample
Location: Vial 43
Injection volume: 1.0uL



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
11.078	BB	0.0355	7895.3311	3478.6162	100.0000
Sum			7895.3311		

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



Reagent

MSV_AcetatesV_00034



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. : 577489 **Lot No.:** A0184542

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 : October 31, 2023 **Storage:** -20°C or colder

Ship: On Ice

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acetonitrile	50,150.0 µg/mL (Lot SHBH6233)	+/- 293.6393 µg/mL Gravimetric +/- 2,481.0559 µg/mL Unstressed +/- 2,542.7375 µg/mL Stressed
	CAS # 75-05-8		
	Purity 99%		
2	Vinyl acetate	10,064.0 µg/mL (Lot RD210830)	+/- 59.0612 µg/mL Gravimetric +/- 497.9092 µg/mL Unstressed +/- 510.2869 µg/mL Stressed
	CAS # 108-05-4		
	Purity 99%		
3	Ethyl acetate	10,082.2 µg/mL (Lot SHBN3179)	+/- 59.1682 µg/mL Gravimetric +/- 498.8116 µg/mL Unstressed +/- 511.2118 µg/mL Stressed
	CAS # 141-78-6		
	Purity 98%		
4	Isopropyl acetate	10,082.0 µg/mL (Lot BCBZ4645)	+/- 59.1668 µg/mL Gravimetric +/- 498.7997 µg/mL Unstressed +/- 511.1996 µg/mL Stressed
	CAS # 108-21-4		
	Purity 99%		
5	Propyl acetate	10,062.0 µg/mL (Lot TFFKL)	+/- 59.0495 µg/mL Gravimetric +/- 497.8102 µg/mL Unstressed +/- 510.1855 µg/mL Stressed
	CAS # 109-60-4		
	Purity 99%		
6	Butyl acetate	10,070.0 µg/mL (Lot SHBN3806)	+/- 59.0964 µg/mL Gravimetric +/- 498.2060 µg/mL Unstressed +/- 510.5911 µg/mL Stressed
	CAS # 123-86-4		
	Purity 99%		

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.

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

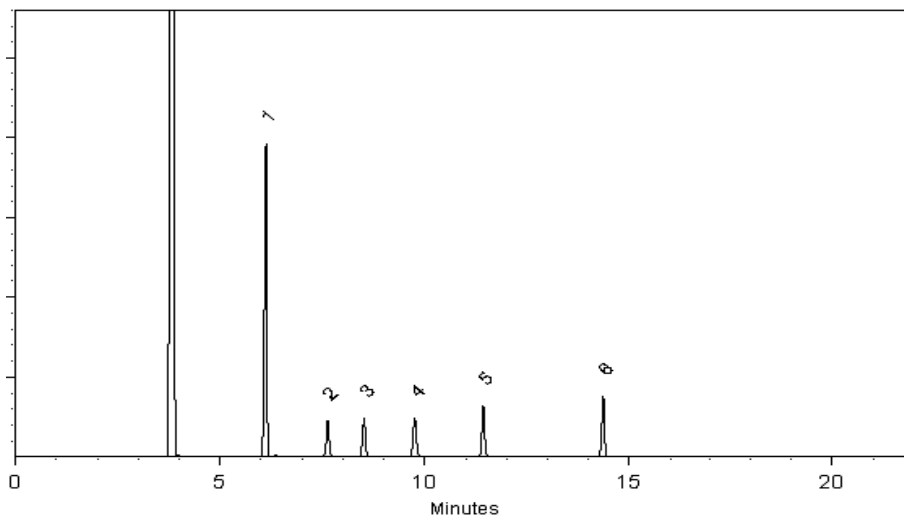
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.


Tom Suckar - Mix Technician

Date Mixed: 26-Apr-2022 **Balance:** B707717271


Fang-Yun Lo - QC Analyst

Date Passed: 05-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_c14dcb_Nt_00004

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com

Outside 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_CYC_00008

CERTIFICATE OF ANALYSIS

Cyclohexanone

CATALOG NUMBER N-11531-1G
LOT NUMBER 13529800
DATE CERTIFIED 06/20/22
EXPIRATION DATE 06/30/27
CAS NUMBER 108-94-1
MOLECULAR FORMULA C₆H₁₀O
MOLECULAR WEIGHT 98.16
STORAGE Store at room temperature (20 - 25 °C).
HANDLING See Safety Data Sheet
INTENDED USE For laboratory use only.

<u>Analytical Test</u>	<u>Value</u>
% PURITY (GC/FID)	99.5
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
PHYSICAL APPEARANCE	COLORLESS LIQUID
GC/MS SPECTRA ID	MATCHES NIST

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



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

Certified By:



Kristin R Jones

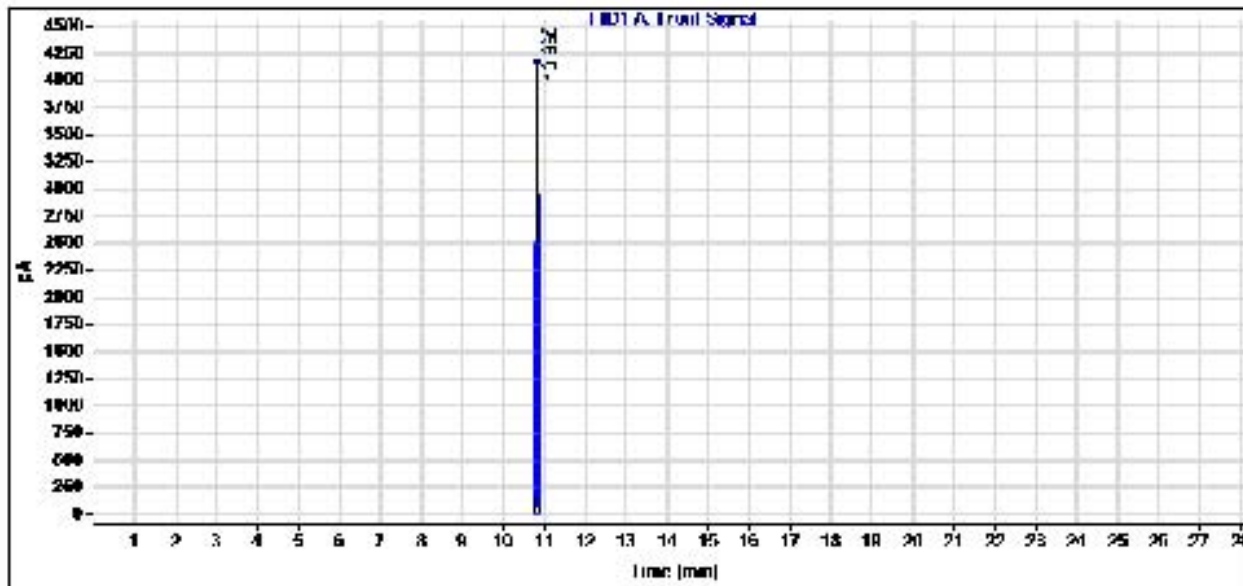
Chem Service, Inc. is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2022 DATA\0622\FID010805.D
Sample name: N-11531
Instrument: GC 1 Sample type: Sample
Injection date: 6/17/2022 1:49:46 PM Location: Vial 51
Acq. method: SCREEN NEAT-FRANNY.M Injection volume: 1.0uL
Column name: DB-624 (30m x 0.53mm x 3.0um)



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
10.835	BB	0.0350	9220.0693	4132.2539	100.0000
	Sum		9220.0693		

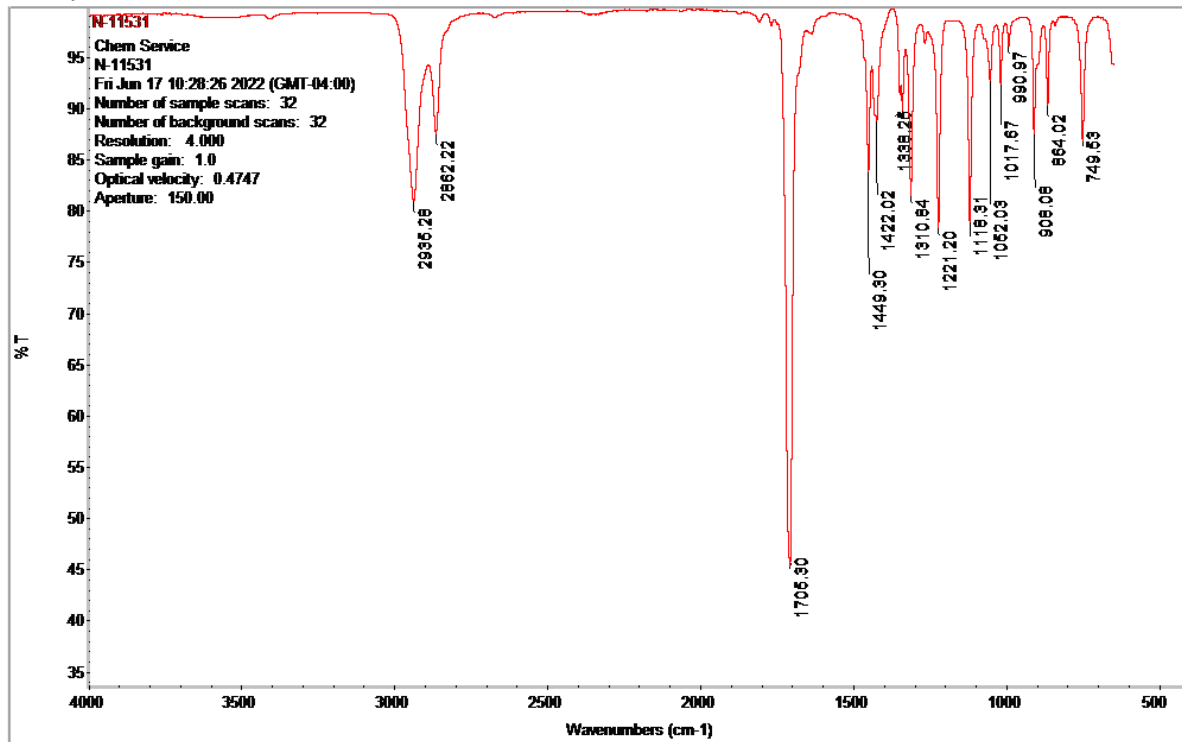
Chem Service, Inc. is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-11531-1G
Description: Cyclohexanone
Lot Number: 13529800
Expiration Date: 06/30/27



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

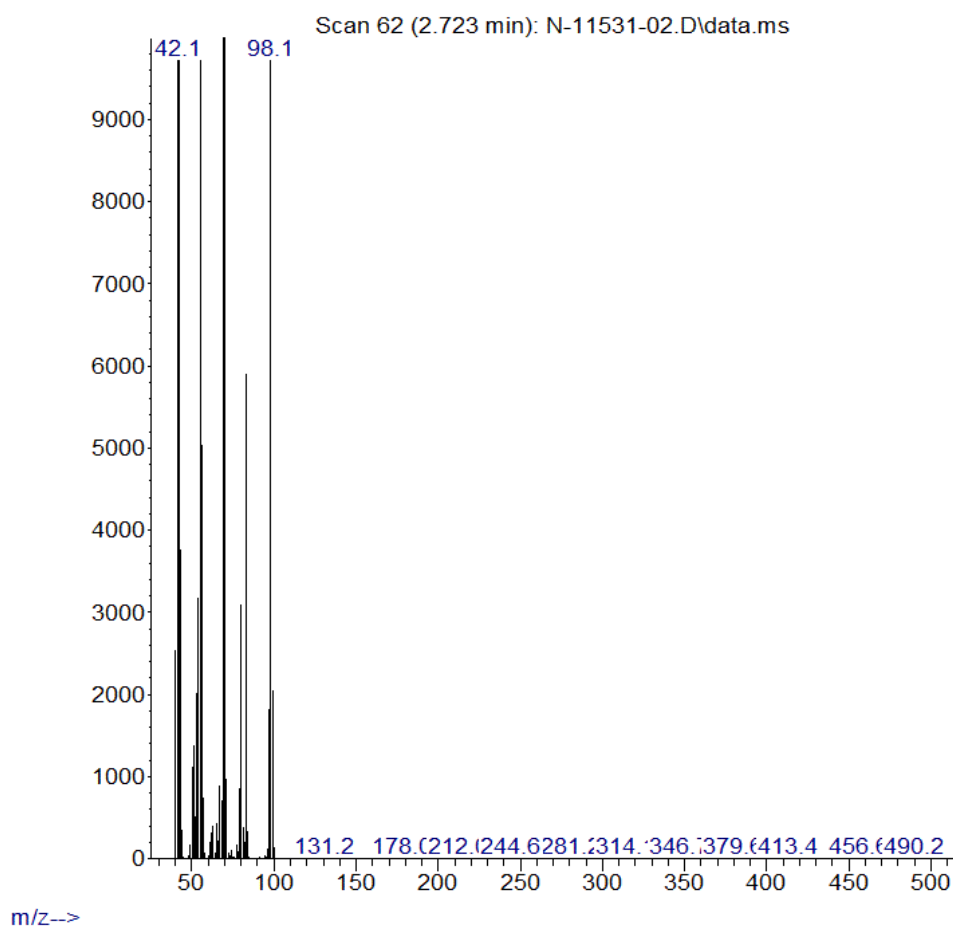


CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-11531-1G
Description: Cyclohexanone
Lot Number: 13529800
Expiration Date: 06/30/27

Abundance



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



CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-11531-1G
Description: Cyclohexanone
Lot Number: 13529800
Expiration Date: 06/30/27

ChemService Area Percent Report

Data Path : D:\MassHunter\GCMS\1\data\2022\0622\
Data File : N-11531-02.D
Acq On : 17 Jun 2022 12:40
Operator :
Sample : N-11531
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: autoint1.e
Integrator: ChemStation

Method : D:\MassHunter\GCMS\1\methods\SCREEN NO SD.M
Title :

Signal : TIC: N-11531-02.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.723	58	62	80	BV 2	106211218	1767870280	100.00%	100.000%

Sum of corrected areas: 1767870280

SCREEN NO SD.M Fri Jun 17 13:13:05 2022

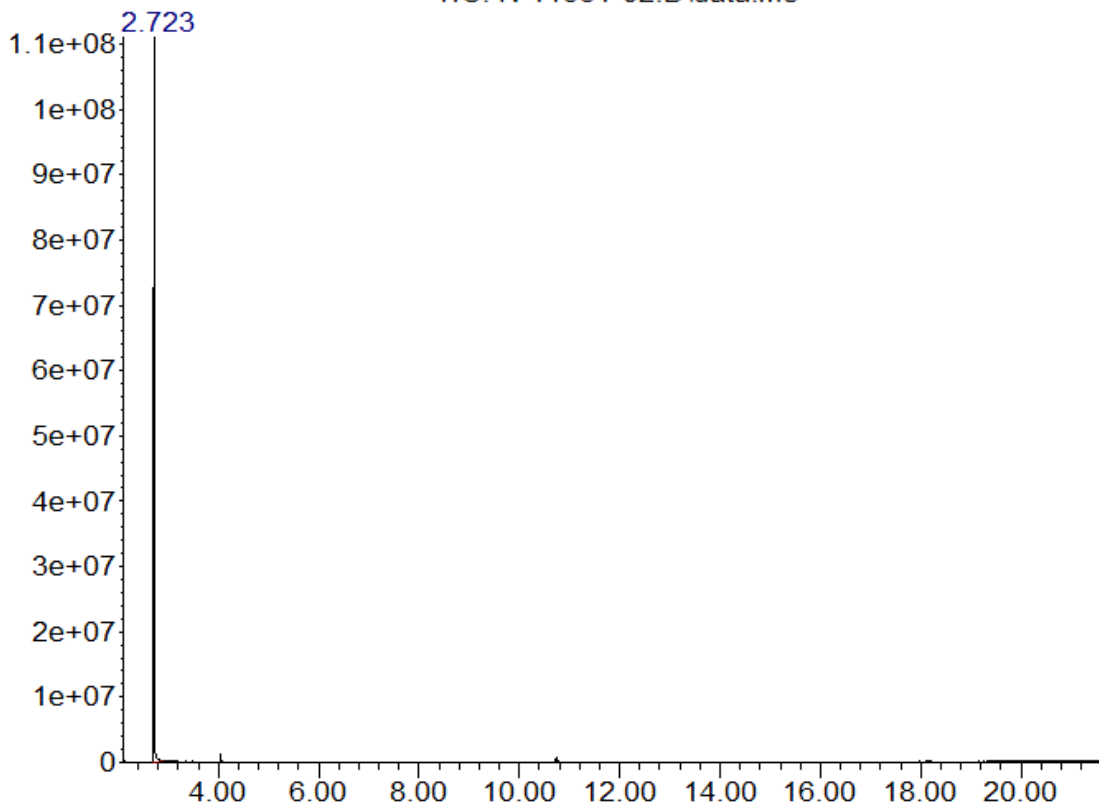
CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-11531-1G
Description: Cyclohexanone
Lot Number: 13529800
Expiration Date: 06/30/27

Abundance

TIC: N-11531-02.D\data.ms



Time-->

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



Reagent

MSV_MegaMix#2_00112



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. : 577487 **Lot No.:** A0186885

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 : June 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	n-Pentane (C5)	5,031.0 µg/mL	+/-	35.9016	µg/mL	Gravimetric
	CAS # 109-66-0 (Lot SHBN6009)		+/-	249.7418	µg/mL	Unstressed
	Purity 99%		+/-	255.9092	µg/mL	Stressed
2	2-Propanol (isopropanol)	25,031.0 µg/mL	+/-	146.5620	µg/mL	Gravimetric
	CAS # 67-63-0 (Lot SHBN6065)		+/-	1,238.3511	µg/mL	Unstressed
	Purity 99%		+/-	1,269.1379	µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	5,009.5 µg/mL	+/-	35.7482	µg/mL	Gravimetric
	CAS # 76-13-1 (Lot 00016133)		+/-	248.6745	µg/mL	Unstressed
	Purity 99%		+/-	254.8156	µg/mL	Stressed
4	tert-Butanol (TBA)	25,112.0 µg/mL	+/-	147.0363	µg/mL	Gravimetric
	CAS # 75-65-0 (Lot 101619K21F-1)		+/-	1,242.3584	µg/mL	Unstressed
	Purity 99%		+/-	1,273.2448	µg/mL	Stressed
5	Methyl acetate	5,011.0 µg/mL	+/-	35.7589	µg/mL	Gravimetric
	CAS # 79-20-9 (Lot SHBM1320)		+/-	248.7490	µg/mL	Unstressed
	Purity 99%		+/-	254.8919	µg/mL	Stressed
6	Iodomethane (methyl iodide)	5,012.0 µg/mL	+/-	35.7660	µg/mL	Gravimetric
	CAS # 74-88-4 (Lot RD220125)		+/-	248.7986	µg/mL	Unstressed
	Purity 99%		+/-	254.9428	µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	5,021.7 µg/mL	+/-	35.8350	µg/mL	Gravimetric
	CAS # 107-05-1 (Lot RP220405A)		+/-	249.2785	µg/mL	Unstressed
	Purity 99%		+/-	255.4345	µg/mL	Stressed

8	Carbon disulfide CAS # 75-15-0 Purity 99%	(Lot N28F701)	5,017.2	µg/mL	+/- +/- +/-	35.8029 249.0551 255.2056	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Acrylonitrile CAS # 107-13-1 Purity 99%	(Lot SHBK4954)	12,534.0	µg/mL	+/- +/- +/-	73.3893 620.0908 635.5069	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Methyl-tert-butyl ether (MTBE) CAS # 1634-04-4 Purity 99%	(Lot SHBN6497)	5,014.5	µg/mL	+/- +/- +/-	35.7839 248.9227 255.0699	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	n-Hexane (C6) CAS # 110-54-3 Purity 99%	(Lot STBG6381)	5,014.7	µg/mL	+/- +/- +/-	35.7850 248.9310 255.0784	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	Diisopropyl ether (DIPE) CAS # 108-20-3 Purity 99%	(Lot STBK3450)	5,021.0	µg/mL	+/- +/- +/-	35.8302 249.2454 255.4006	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	Chloroprene (2-chloro-1,3-butadiene) CAS # 126-99-8 Purity 99%	(Lot 220304JEAN)	5,026.3	µg/mL	+/- +/- +/-	35.8683 249.5101 255.6718	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	Ethyl-tert-butyl ether (ETBE) CAS # 637-92-3 Purity 99%	(Lot MKCN9957)	5,009.2	µg/mL	+/- +/- +/-	35.7458 248.6580 254.7986	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	Propionitrile CAS # 107-12-0 Purity 99%	(Lot BCCF4167)	25,070.0	µg/mL	+/- +/- +/-	146.7904 1,240.2806 1,271.1153	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	Methacrylonitrile CAS # 126-98-7 Purity 99%	(Lot 1012014)	12,539.0	µg/mL	+/- +/- +/-	73.4186 620.3382 635.7604	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) CAS # 78-83-1 Purity 99%	(Lot SHBM4836)	62,525.0	µg/mL	+/- +/- +/-	366.0976 3,093.2805 3,170.1827	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	Tetrahydrofuran CAS # 109-99-9 Purity 99%	(Lot SHBP0039)	25,065.0	µg/mL	+/- +/- +/-	146.7611 1,240.0332 1,270.8617	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Cyclohexane CAS # 110-82-7 Purity 99%	(Lot EA003-US)	5,008.5	µg/mL	+/- +/- +/-	35.7410 248.6249 254.7647	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	1-Butanol CAS # 71-36-3 Purity 99%	(Lot SHBN6854)	62,524.0	µg/mL	+/- +/- +/-	366.0918 3,093.2311 3,170.1320	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	tert-Amyl methyl ether (TAME) CAS # 994-05-8 Purity 99%	(Lot HMBG7745V)	5,009.2	µg/mL	+/- +/- +/-	35.7458 248.6580 254.7986	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	n-Heptane (C7) CAS # 142-82-5 Purity 99%	(Lot SGBL9221)	5,016.7	µg/mL	+/- +/- +/-	35.7993 249.0303 255.1801	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	tert-Amyl ethyl ether (TAEE) CAS # 919-94-8 Purity 99%	(Lot 76U3A)	5,010.8	µg/mL	+/- +/- +/-	35.7577 248.7407 254.8834	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	Methylcyclohexane CAS # 108-87-2 Purity 99%	(Lot SHBL0078)	5,022.3	µg/mL	+/-	35.8398 249.3116 255.4684	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	Methyl methacrylate CAS # 80-62-6 Purity 99%	(Lot MKCQ2755)	5,011.5	µg/mL	+/-	35.7625 248.7738 254.9173	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,4-Dioxane CAS # 123-91-1 Purity 99%	(Lot SHBN5929)	62,598.0	µg/mL	+/-	366.5251 3,096.8920 3,173.8840	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	2-Nitropropane CAS # 79-46-9 Purity 97%	(Lot BCCB9352)	25,086.1	µg/mL	+/-	146.8849 1,241.0791 1,271.9336	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Ethyl methacrylate CAS # 97-63-2 Purity 99%	(Lot MKCL0907)	5,017.7	µg/mL	+/-	35.8065 249.0799 255.2310	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	1-Chlorohexane CAS # 544-10-5 Purity 98%	(Lot BCBS3368V)	5,022.3	µg/mL	+/-	35.8398 249.3117 255.4685	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	trans-1,4-dichloro-2-butene CAS # 110-57-6 Purity 95%	(Lot RD220405A)	12,586.6	µg/mL	+/-	73.6970 622.6906 638.1714	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,2,3-Trimethylbenzene CAS # 526-73-8 Purity 98%	(Lot 8776.10-36)	5,012.4	µg/mL	+/-	35.7687 248.8172 254.9617	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	1,3-Diethylbenzene CAS # 141-93-5 Purity 98%	(Lot BCBT8967)	5,012.0	µg/mL	+/-	35.7664 248.8009 254.9451	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	Benzyl chloride CAS # 100-44-7 Purity 99%	(Lot SHBH2102V)	5,020.8	µg/mL	+/-	35.8291 249.2371 255.3921	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	1,4-Diethylbenzene CAS # 105-05-5 Purity 99%	(Lot 1135.72-1)	5,011.7	µg/mL	+/-	35.7636 248.7821 254.9258	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	1,2-Diethylbenzene CAS # 135-01-3 Purity 99%	(Lot ECH2970181)	5,011.3	µg/mL	+/-	35.7613 248.7655 254.9088	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	1,3,5-Trichlorobenzene CAS # 108-70-3 Purity 99%	(Lot 11319AS)	5,013.2	µg/mL	+/-	35.7743 248.8565 255.0021	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	2-Methylnaphthalene CAS # 91-57-6 Purity 96%	(Lot STBK0259)	5,013.1	µg/mL	+/-	35.7740 248.8542 254.9997	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

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

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

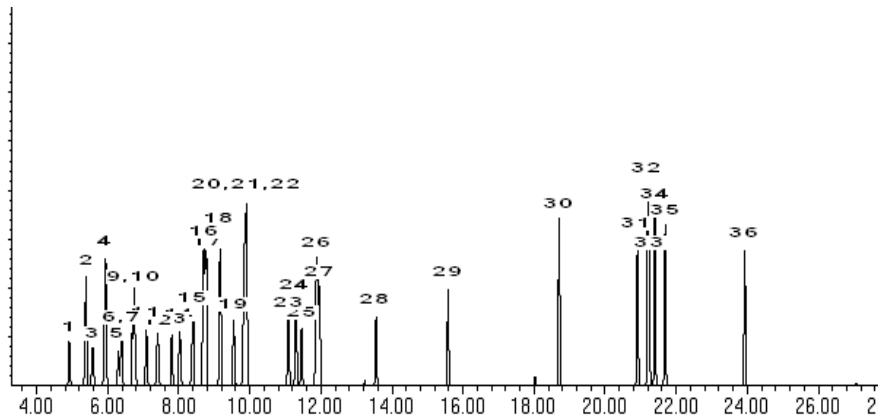
Carrier Gas:
helium-constant pressure 30 psi

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



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.

Miranda Kline

Miranda Kline - Operations Technician I

Date Mixed: 30-Jun-2022

Balance: B707717271

Christie Mills

Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Jul-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_00145



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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)	2,000.3 µg/mL	+/-	17.8749	µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 27545)		+/-	112.9722	µg/mL	Unstressed
	Purity 99%		+/-	115.5779	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,002.3 µg/mL	+/-	19.9305	µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/-	113.4254	µg/mL	Unstressed
	Purity 99%		+/-	116.0260	µg/mL	Stressed
3	Vinyl chloride	2,002.4 µg/mL	+/-	21.8874	µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/-	113.7916	µg/mL	Unstressed
	Purity 99%		+/-	116.3843	µg/mL	Stressed
4	1,3-Butadiene	2,003.4 µg/mL	+/-	24.0683	µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 26996)		+/-	114.2862	µg/mL	Unstressed
	Purity 99%		+/-	116.8705	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,007.9 µg/mL	+/-	17.0860	µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot 00017022)		+/-	113.2712	µg/mL	Unstressed
	Purity 99%		+/-	115.8898	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,002.2 µg/mL	+/-	20.1773	µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/-	113.4619	µg/mL	Unstressed
	Purity 98%		+/-	116.0614	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/-	11.7371	µg/mL	Gravimetric
	CAS # 75-43-4 * (Lot 12841600)		+/-	112.1494	µg/mL	Unstressed
	Purity 99%		+/-	114.7730	µg/mL	Stressed

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

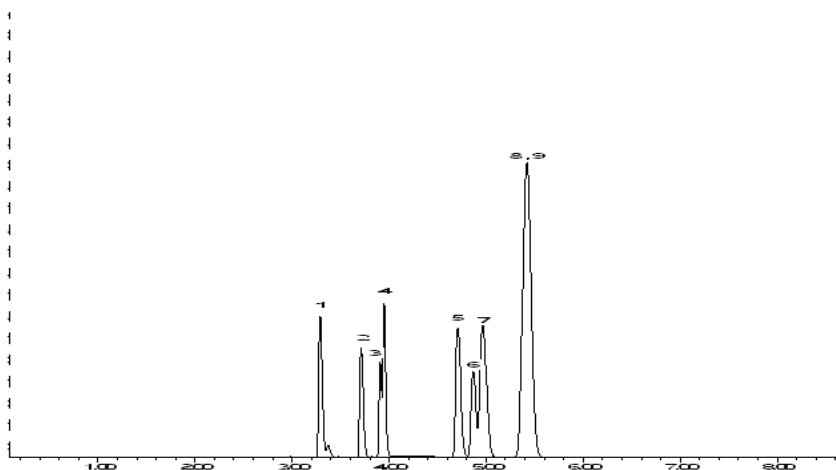
Carrier Gas:
helium-constant flow 2.0 mL/min.

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_00146



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

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

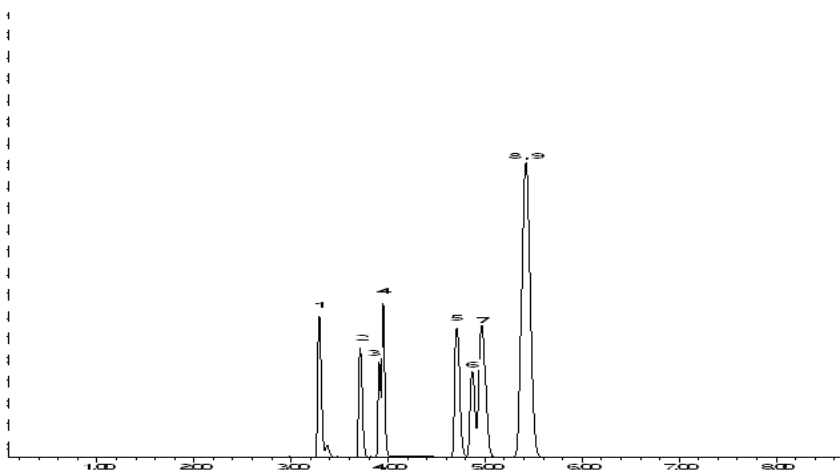
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.
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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 En Job No.: 410-127761-1

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	410-127761-1	90	98	105	91
HD-COD-SW-7-0/1-0	410-127761-2	90	98	104	81
HD-COD-SW-8-0/1-0	410-127761-3	91	95	105	91
HD-COD-SW-9-0/1-0	410-127761-4	91	97	105	91
HD-COD-SW-13-0/1-0	410-127761-5	91	98	104	91
HD-COD-SW-15-0/1-0	410-127761-6	91	97	103	89
HD-COD-SW-16-0/1-0	410-127761-7	93	96	105	90
HD-COD-SW-17-0/1-0	410-127761-8	93	100	104	90
HD-COD-SW-17-0/1-0 DL	410-127761-8 DL	91	101	110	91
HD-COD-SW-26-0/1-0	410-127761-9	93	96	105	90
HD-COD-SW-27-0/1-0	410-127761-10	92	98	105	91
HD-COD-SW-28-0/1-0	410-127761-11	91	97	104	90
HD-COD-SW-29-0/1-0	410-127761-12	94	102	104	91
HD-QC1-0/1-1	410-127761-13	94	99	103	91
HD-QC1-0/1-1 DL	410-127761-13 DL	90	98	109	88
HD-QC1-0/1-2	410-127761-14	90	99	105	93
	MB 410-381658/6	92	98	104	97
	MB 410-382118/7	89	97	112	98
	LCS 410-381658/4	92	102	107	96
	LCS 410-382118/4	88	93	115	96
	LCSD 410-382118/5	88	96	115	96
HD-COD-SW-15-0/1-0 MS MS	410-127761-6 MS	92	96	108	96
HD-COD-SW-15-0/1-0 MSD MSD	410-127761-6 MSD	92	102	106	96

QC LIMITS

DBFM = Dibromofluoromethane (Surr)	80-120
DCA = 1,2-Dichloroethane-d4 (Surr)	80-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	80-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

Matrix: Water

Level: Low

Lab File ID: CY31X03.D

Lab ID: LCS 410-381658/4

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.26	105	71-134	
1,1,1-Trichloroethane	5.00	4.60	92	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.75	115	75-123	
1,1,2-Trichloroethane	5.00	5.34	107	80-120	
1,1-Dichloroethane	5.00	5.05	101	74-120	
1,1-Dichloroethene	5.00	5.12	102	80-131	
1,2-Dibromoethane (EDB)	5.00	5.22	104	80-120	
1,2-Dichloroethane	5.00	4.46	89	69-122	
1,2-Dichloropropane	5.00	5.36	107	80-120	
2-Butanone (MEK)	62.5	65.5	105	59-141	
2-Hexanone	62.5	64.6	103	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	63.7	102	55-140	
Acetone	62.5	66.4	106	60-146	
Benzene	5.00	5.30	106	80-120	
Bromochloromethane	5.00	4.87	97	80-120	
Bromodichloromethane	5.00	4.78	96	73-124	
Bromoform	5.00	4.59	92	49-144	
Bromomethane	5.00	4.19	84	60-136	
Carbon disulfide	5.00	5.16	103	67-130	
Carbon tetrachloride	5.00	4.55	91	64-141	
Chlorobenzene	5.00	5.27	105	80-120	
Chloroethane	5.00	4.32	86	63-120	
Chloroform	5.00	4.87	97	80-120	
Chloromethane	5.00	4.34	87	56-124	
cis-1,2-Dichloroethene	5.00	5.22	104	80-122	
cis-1,3-Dichloropropene	5.00	4.75	95	67-121	
Dibromochloromethane	5.00	5.04	101	64-138	
Ethylbenzene	5.00	5.54	111	80-120	
Methyl tert-butyl ether	5.00	4.77	95	69-120	
Methylene Chloride	5.00	5.13	103	80-120	
Styrene	5.00	5.44	109	80-120	
Tetrachloroethene	5.00	4.99	100	80-120	
Toluene	5.00	5.56	111	80-120	
trans-1,2-Dichloroethene	5.00	4.94	99	80-122	
trans-1,3-Dichloropropene	5.00	5.31	106	61-129	
Trichloroethene	5.00	4.84	97	80-120	
Vinyl chloride	5.00	4.01	80	60-125	
Xylenes, Total	15.0	16.4	109	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

Matrix: Water

Level: Low

Lab File ID: CU01X03.D

Lab ID: LCS 410-382118/4

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.11	102	71-134	
1,1,1-Trichloroethane	5.00	4.17	83	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.92	118	75-123	
1,1,2-Trichloroethane	5.00	5.28	106	80-120	
1,1-Dichloroethane	5.00	4.46	89	74-120	
1,1-Dichloroethene	5.00	4.64	93	80-131	
1,2-Dibromoethane (EDB)	5.00	5.26	105	80-120	
1,2-Dichloroethane	5.00	4.03	81	69-122	
1,2-Dichloropropane	5.00	4.72	94	80-120	
2-Butanone (MEK)	62.5	66.5	106	59-141	
2-Hexanone	62.5	66.8	107	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	68.3	109	55-140	
Acetone	62.5	63.3	101	60-146	
Benzene	5.00	4.71	94	80-120	
Bromochloromethane	5.00	4.27	85	80-120	
Bromodichloromethane	5.00	4.21	84	73-124	
Bromoform	5.00	4.45	89	49-144	
Bromomethane	5.00	3.61	72	60-136	
Carbon disulfide	5.00	4.54	91	67-130	
Carbon tetrachloride	5.00	4.13	83	64-141	
Chlorobenzene	5.00	5.18	104	80-120	
Chloroethane	5.00	3.88	78	63-120	
Chloroform	5.00	4.31	86	80-120	
Chloromethane	5.00	3.82	76	56-124	
cis-1,2-Dichloroethene	5.00	4.51	90	80-122	
cis-1,3-Dichloropropene	5.00	4.21	84	67-121	
Dibromochloromethane	5.00	4.98	100	64-138	
Ethylbenzene	5.00	5.51	110	80-120	
Methyl tert-butyl ether	5.00	4.19	84	69-120	
Methylene Chloride	5.00	4.55	91	80-120	
Styrene	5.00	5.24	105	80-120	
Tetrachloroethene	5.00	5.01	100	80-120	
Toluene	5.00	5.61	112	80-120	
trans-1,2-Dichloroethene	5.00	4.29	86	80-122	
trans-1,3-Dichloropropene	5.00	5.32	106	61-129	
Trichloroethene	5.00	4.29	86	80-120	
Vinyl chloride	5.00	3.61	72	60-125	
Xylenes, Total	15.0	16.0	107	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.: 410-127761-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: CU01X04.D

Lab ID: LCSD 410-382118/5

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	5.07	101	1	30	71-134	
1,1,1-Trichloroethane	5.00	4.13	83	1	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.89	118	1	30	75-123	
1,1,2-Trichloroethane	5.00	5.35	107	1	30	80-120	
1,1-Dichloroethane	5.00	4.38	88	2	30	74-120	
1,1-Dichloroethene	5.00	4.57	91	2	30	80-131	
1,2-Dibromoethane (EDB)	5.00	5.26	105	0	30	80-120	
1,2-Dichloroethane	5.00	3.81	76	6	30	69-122	
1,2-Dichloropropane	5.00	4.77	95	1	30	80-120	
2-Butanone (MEK)	62.5	66.5	106	0	30	59-141	
2-Hexanone	62.5	66.5	106	0	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	64.2	103	6	30	55-140	
Acetone	62.5	63.5	102	0	30	60-146	
Benzene	5.00	4.66	93	1	30	80-120	
Bromochloromethane	5.00	4.21	84	1	30	80-120	
Bromodichloromethane	5.00	4.23	85	0	30	73-124	
Bromoform	5.00	4.41	88	1	30	49-144	
Bromomethane	5.00	3.61	72	0	30	60-136	
Carbon disulfide	5.00	4.37	87	4	30	67-130	
Carbon tetrachloride	5.00	4.06	81	2	30	64-141	
Chlorobenzene	5.00	5.21	104	1	30	80-120	
Chloroethane	5.00	3.73	75	4	30	63-120	
Chloroform	5.00	4.29	86	0	30	80-120	
Chloromethane	5.00	3.52	70	8	30	56-124	
cis-1,2-Dichloroethene	5.00	4.57	91	1	30	80-122	
cis-1,3-Dichloropropene	5.00	4.31	86	2	30	67-121	
Dibromochloromethane	5.00	5.06	101	2	30	64-138	
Ethylbenzene	5.00	5.46	109	1	30	80-120	
Methyl tert-butyl ether	5.00	4.26	85	2	30	69-120	
Methylene Chloride	5.00	4.55	91	0	30	80-120	
Styrene	5.00	5.33	107	2	30	80-120	
Tetrachloroethene	5.00	4.97	99	1	30	80-120	
Toluene	5.00	5.54	111	1	30	80-120	
trans-1,2-Dichloroethene	5.00	4.23	85	1	30	80-122	
trans-1,3-Dichloropropene	5.00	5.39	108	1	30	61-129	
Trichloroethene	5.00	4.29	86	0	30	80-120	
Vinyl chloride	5.00	3.54	71	2	30	60-125	
Xylenes, Total	15.0	16.2	108	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.: 410-127761-1

SDG No.:

Matrix: Water

Level: Low

Lab File ID: CY31X08.D

Lab ID: 410-127761-6 MS

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

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	ND	5.74	115	71-134	
1,1,1-Trichloroethane	5.00	0.22 J	5.66	109	78-126	
1,1,2,2-Tetrachloroethane	5.00	ND	6.14	123	75-123	
1,1,2-Trichloroethane	5.00	ND	5.70	114	80-120	
1,1-Dichloroethane	5.00	ND	5.75	115	74-120	
1,1-Dichloroethene	5.00	0.16 J	6.42	125	80-131	
1,2-Dibromoethane (EDB)	5.00	ND	5.52	110	80-120	
1,2-Dichloroethane	5.00	ND	4.66	93	69-122	
1,2-Dichloropropane	5.00	ND	5.86	117	80-120	
2-Butanone (MEK)	62.6	ND	70.5	113	59-141	
2-Hexanone	62.6	ND	72.5	116	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	ND	71.5	114	55-140	
Acetone	62.6	1.4 J	69.8	109	60-146	
Benzene	5.00	ND	5.95	119	80-120	
Bromochloromethane	5.00	ND	5.27	105	80-120	
Bromodichloromethane	5.00	ND	5.15	103	73-124	
Bromoform	5.00	ND	4.83	97	49-144	
Bromomethane	5.00	ND	4.93	98	60-136	
Carbon disulfide	5.00	ND	6.09	122	67-130	
Carbon tetrachloride	5.00	ND	5.54	111	64-141	
Chlorobenzene	5.00	ND	5.80	116	80-120	
Chloroethane	5.00	ND	5.11	102	63-120	
Chloroform	5.00	0.24 J	5.57	106	80-120	
Chloromethane	5.00	ND	5.46	109	80-120	
cis-1,2-Dichloroethene	5.00	0.94	6.83	118	80-122	
cis-1,3-Dichloropropene	5.00	ND	5.15	103	67-121	
Dibromochloromethane	5.00	ND	5.43	109	64-138	
Ethylbenzene	5.00	ND	6.34	127	80-120	FH
Methyl tert-butyl ether	5.00	ND	5.00	100	69-120	
Methylene Chloride	5.00	ND	5.67	113	80-120	
Styrene	5.00	ND	5.93	119	80-120	
Tetrachloroethene	5.00	4.3	10.3	122	80-120	FH
Toluene	5.00	ND	6.37	127	80-120	FH
trans-1,2-Dichloroethene	5.00	ND	5.63	112	80-122	
trans-1,3-Dichloropropene	5.00	ND	5.58	112	61-129	
Trichloroethene	5.00	0.94	6.43	110	80-120	
Vinyl chloride	5.00	ND	5.40	108	60-125	
Xylenes, Total	15.0	ND	18.4	123	80-120	FH

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.: 410-127761-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: CY31X09.D

Lab ID: 410-127761-6 MSD

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

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	5.00	5.68	113	1	30	71-134	
1,1,1-Trichloroethane	5.00	5.61	108	1	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.94	119	3	30	75-123	
1,1,2-Trichloroethane	5.00	5.50	110	3	30	80-120	
1,1-Dichloroethane	5.00	5.73	115	0	30	74-120	
1,1-Dichloroethene	5.00	6.29	122	2	30	80-131	
1,2-Dibromoethane (EDB)	5.00	5.55	111	0	30	80-120	
1,2-Dichloroethane	5.00	4.65	93	0	30	69-122	
1,2-Dichloropropane	5.00	5.79	116	1	30	80-120	
2-Butanone (MEK)	62.6	68.3	109	3	30	59-141	
2-Hexanone	62.6	69.7	111	4	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	68.6	110	4	30	55-140	
Acetone	62.6	66.0	103	6	30	60-146	
Benzene	5.00	5.93	118	0	30	80-120	
Bromochloromethane	5.00	5.21	104	1	30	80-120	
Bromodichloromethane	5.00	5.06	101	2	30	73-124	
Bromoform	5.00	4.77	95	1	30	49-144	
Bromomethane	5.00	4.73	95	4	30	60-136	
Carbon disulfide	5.00	6.04	121	1	30	67-130	
Carbon tetrachloride	5.00	5.51	110	1	30	64-141	
Chlorobenzene	5.00	5.71	114	2	30	80-120	
Chloroethane	5.00	5.01	100	2	30	63-120	
Chloroform	5.00	5.55	106	0	30	80-120	
Chloromethane	5.00	5.22	104	4	30	80-120	
cis-1,2-Dichloroethene	5.00	6.63	114	3	30	80-122	
cis-1,3-Dichloropropene	5.00	5.07	101	2	30	67-121	
Dibromochloromethane	5.00	5.28	106	3	30	64-138	
Ethylbenzene	5.00	6.22	124	2	30	80-120	FH
Methyl tert-butyl ether	5.00	4.99	100	0	30	69-120	
Methylene Chloride	5.00	5.67	113	0	30	80-120	
Styrene	5.00	5.84	117	2	30	80-120	
Tetrachloroethene	5.00	10.2	119	1	30	80-120	
Toluene	5.00	6.13	122	4	30	80-120	FH
trans-1,2-Dichloroethene	5.00	5.59	112	1	30	80-122	
trans-1,3-Dichloropropene	5.00	5.45	109	2	30	61-129	
Trichloroethene	5.00	6.36	108	1	30	80-120	
Vinyl chloride	5.00	5.10	102	6	30	60-125	
Xylenes, Total	15.0	18.0	120	2	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 Job No.: 410-127761-1
Environment Testing, LLC

SDG No.: _____

Lab File ID: CY31X05.D Lab Sample ID: MB 410-381658/6

Matrix: Water Heated Purge: (Y/N) N

Instrument ID: 10193 Date Analyzed: 05/31/2023 22:15

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 410-381658/4	CY31X03.D	05/31/2023 21:30
HD-QC1-0/1-2	410-127761-14	CY31X06.D	05/31/2023 22:37
HD-COD-SW-15-0/1-0	410-127761-6	CY31X07.D	05/31/2023 22:59
HD-COD-SW-15-0/1-0 MS MS	410-127761-6 MS	CY31X08.D	05/31/2023 23:22
HD-COD-SW-15-0/1-0 MSD MSD	410-127761-6 MSD	CY31X09.D	05/31/2023 23:44
HD-COD-SW-6-0/1-0	410-127761-1	CY31X14.D	06/01/2023 01:35
HD-COD-SW-7-0/1-0	410-127761-2	CY31X15.D	06/01/2023 01:58
HD-COD-SW-8-0/1-0	410-127761-3	CY31X16.D	06/01/2023 02:20
HD-COD-SW-9-0/1-0	410-127761-4	CY31X17.D	06/01/2023 02:42
HD-COD-SW-13-0/1-0	410-127761-5	CY31X18.D	06/01/2023 03:04
HD-COD-SW-16-0/1-0	410-127761-7	CY31X19.D	06/01/2023 03:27
HD-COD-SW-17-0/1-0	410-127761-8	CY31X20.D	06/01/2023 03:49
HD-COD-SW-26-0/1-0	410-127761-9	CY31X21.D	06/01/2023 04:11
HD-COD-SW-27-0/1-0	410-127761-10	CY31X22.D	06/01/2023 04:34
HD-COD-SW-28-0/1-0	410-127761-11	CY31X23.D	06/01/2023 04:56
HD-COD-SW-29-0/1-0	410-127761-12	CY31X24.D	06/01/2023 05:18
HD-QC1-0/1-1	410-127761-13	CY31X25.D	06/01/2023 05:40

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1
 Environment Testing, LLC

SDG No.:

Lab File ID: CU01X06.D Lab Sample ID: MB 410-382118/7

Matrix: Water Heated Purge: (Y/N) N

Instrument ID: 10193 Date Analyzed: 06/01/2023 22:13

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 410-382118/4	CU01X03.D	06/01/2023 21:04
	LCSD 410-382118/5	CU01X04.D	06/01/2023 21:28
HD-COD-SW-17-0/1-0 DL	410-127761-8 DL	CU01X18.D	06/02/2023 02:40
HD-QC1-0/1-1 DL	410-127761-13 DL	CU01X19.D	06/02/2023 03:03

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

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

Lab File ID: CY01T01.D

BFB Injection Date: 05/01/2023

Instrument ID: 10193

BFB Injection Time: 14:22

Analysis Batch No.: 370594

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.9	
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	6.6	
173	Less than 2.0 % of mass 174	0.7	(0.9) 1
174	Greater than 50% of mass 95	87.0	
175	5.0 - 9.0 % of mass 174	6.4	(7.3) 1
176	95.0 - 101.0 % of mass 174	86.0	(98.8) 1
177	5.0 - 9.0 % of mass 176	4.9	(5.7) 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 410-370594/3	CY01X02.D	05/01/2023	15:17
	IC 410-370594/4	CY01X03.D	05/01/2023	15:40
	IC 410-370594/5	CY01X04.D	05/01/2023	16:02
	IC 410-370594/6	CY01X05.D	05/01/2023	16:24
	IC 410-370594/7	CY01X06.D	05/01/2023	16:47
	IC 410-370594/8	CY01X07.D	05/01/2023	17:09
	IC 410-370594/9	CY01X08.D	05/01/2023	17:31
	IC 410-370594/13	CY01X12.D	05/01/2023	19:00
	IC 410-370594/14	CY01X13.D	05/01/2023	19:22
	IC 410-370594/15	CY01X14.D	05/01/2023	19:45
	IC 410-370594/16	CY01X15.D	05/01/2023	20:07
	IC 410-370594/17	CY01X16.D	05/01/2023	20:29
	ICIS 410-370594/18	CY01X17.D	05/01/2023	20:52
	IC 410-370594/19	CY01X18.D	05/01/2023	21:14
	ICV 410-370594/21	CY01X20.D	05/01/2023	21:58

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

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

Lab File ID: CY31T01.D

BFB Injection Date: 05/31/2023

Instrument ID: 10193

BFB Injection Time: 20:33

Analysis Batch No.: 381658

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.4	
75	30.0 - 60.0 % of mass 95	46.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.4	
173	Less than 2.0 % of mass 174	0.7	(0.8) 1
174	Greater than 50% of mass 95	85.5	
175	5.0 - 9.0 % of mass 174	6.4	(7.5) 1
176	95.0 - 101.0 % of mass 174	84.0	(98.2) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.3) 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 410-381658/3	CY31X02.D	05/31/2023	21:08
	LCS 410-381658/4	CY31X03.D	05/31/2023	21:30
	MB 410-381658/6	CY31X05.D	05/31/2023	22:15
HD-QC1-0/1-2	410-127761-14	CY31X06.D	05/31/2023	22:37
HD-COD-SW-15-0/1-0	410-127761-6	CY31X07.D	05/31/2023	22:59
HD-COD-SW-15-0/1-0 MS MS	410-127761-6 MS	CY31X08.D	05/31/2023	23:22
HD-COD-SW-15-0/1-0 MSD MSD	410-127761-6 MSD	CY31X09.D	05/31/2023	23:44
HD-COD-SW-6-0/1-0	410-127761-1	CY31X14.D	06/01/2023	1:35
HD-COD-SW-7-0/1-0	410-127761-2	CY31X15.D	06/01/2023	1:58
HD-COD-SW-8-0/1-0	410-127761-3	CY31X16.D	06/01/2023	2:20
HD-COD-SW-9-0/1-0	410-127761-4	CY31X17.D	06/01/2023	2:42
HD-COD-SW-13-0/1-0	410-127761-5	CY31X18.D	06/01/2023	3:04
HD-COD-SW-16-0/1-0	410-127761-7	CY31X19.D	06/01/2023	3:27
HD-COD-SW-17-0/1-0	410-127761-8	CY31X20.D	06/01/2023	3:49
HD-COD-SW-26-0/1-0	410-127761-9	CY31X21.D	06/01/2023	4:11
HD-COD-SW-27-0/1-0	410-127761-10	CY31X22.D	06/01/2023	4:34
HD-COD-SW-28-0/1-0	410-127761-11	CY31X23.D	06/01/2023	4:56
HD-COD-SW-29-0/1-0	410-127761-12	CY31X24.D	06/01/2023	5:18
HD-QC1-0/1-1	410-127761-13	CY31X25.D	06/01/2023	5:40

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

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1
Environment Testing, LLC

SDG No.: _____

Sample No.: ICIS 410-370594/18 Date Analyzed: 05/01/2023 20:52

Instrument ID: 10193 GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): CY01X17.D Heated Purge: (Y/N) N

Calibration ID: 49717

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		1160831	12.70				
UPPER LIMIT		2321662	13.20				
LOWER LIMIT		580416	12.20				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-370594/21		1107496	12.70				
CCVIS 410-381658/3		1014488	12.69				
CCVIS 410-382118/3		954514	12.69				

DCBd4 = 1,4-Dichlorobenzene-d4

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

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1
 Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-381658/3 Date Analyzed: 05/31/2023 21:08

Instrument ID: 10193 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): CY31X02.D Heated Purge: (Y/N) N

Calibration ID: 49717

	TBA _d 10		FB		CBZ _d 5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	173581	3.64	2029678	7.05	1701193	10.74
UPPER LIMIT	347162	4.14	4059356	7.55	3402386	11.24
LOWER LIMIT	86791	3.14	1014839	6.55	850597	10.24
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 410-381658/4	179147	3.65	2000528	7.06	1680482	10.74
MB 410-381658/6	186813	3.66	1881460	7.06	1578840	10.74
410-127761-14	HD-QC1-0/1-2	197623	1912944	7.06	1607742	10.74
410-127761-6	HD-COD-SW-15-0/1-0	184917	1900654	7.06	1615109	10.74
410-127761-6 MS	HD-COD-SW-15-0/1-0 MS MS	161627	1967191	7.06	1653135	10.74
410-127761-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	165969	1973136	7.05	1666832	10.74
410-127761-1	HD-COD-SW-6-0/1-0	188158	1909727	7.06	1591728	10.74
410-127761-2	HD-COD-SW-7-0/1-0	183323	1869453	7.06	1583854	10.74
410-127761-3	HD-COD-SW-8-0/1-0	188773	1871301	7.06	1560885	10.74
410-127761-4	HD-COD-SW-9-0/1-0	163589	1852391	7.06	1575328	10.74
410-127761-5	HD-COD-SW-13-0/1-0	185979	1891540	7.06	1607359	10.74
410-127761-7	HD-COD-SW-16-0/1-0	170773	1774477	7.06	1511439	10.74
410-127761-8	HD-COD-SW-17-0/1-0	187594	1819089	7.06	1570058	10.74
410-127761-9	HD-COD-SW-26-0/1-0	180882	1856744	7.06	1583360	10.74
410-127761-10	HD-COD-SW-27-0/1-0	178611	1858357	7.06	1560250	10.74
410-127761-11	HD-COD-SW-28-0/1-0	173290	1844657	7.06	1556608	10.74
410-127761-12	HD-COD-SW-29-0/1-0	178154	1824558	7.06	1575319	10.74
410-127761-13	HD-QC1-0/1-1	185358	1848160	7.06	1604255	10.74

TBA_d10 = t-Butyl alcohol-d10 (IS)
 TBA_d10 = t-Butyl alcohol-d10 (IS)
 FB = Fluorobenzene (IS)
 FB = Fluorobenzene (IS)
 Area Limit = 50%-200% of internal standard area
 CBZ_d5 = Chlorobenzene-d5 (IS)
 RT Limit = ± 0.5 minutes of internal standard RT
 CBZ_d5 = Chlorobenzene-d5 (IS)
 # 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.: 410-127761-1
Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-381658/3 Date Analyzed: 05/31/2023 21:08

Instrument ID: 10193 GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): CY31X02.D Heated Purge: (Y/N) N

Calibration ID: 49717

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		1014488	12.69				
UPPER LIMIT		2028976	13.19				
LOWER LIMIT		507244	12.19				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-381658/4		993453	12.69				
MB 410-381658/6		866764	12.69				
410-127761-14	HD-QC1-0/1-2	921726	12.69				
410-127761-6	HD-COD-SW-15-0/1-0	893439	12.69				
410-127761-6 MS	HD-COD-SW-15-0/1-0 MS MS	958639	12.70				
410-127761-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	979686	12.69				
410-127761-1	HD-COD-SW-6-0/1-0	885784	12.69				
410-127761-2	HD-COD-SW-7-0/1-0	880643	12.69				
410-127761-3	HD-COD-SW-8-0/1-0	891460	12.69				
410-127761-4	HD-COD-SW-9-0/1-0	805211	12.69				
410-127761-5	HD-COD-SW-13-0/1-0	910698	12.69				
410-127761-7	HD-COD-SW-16-0/1-0	822715	12.69				
410-127761-8	HD-COD-SW-17-0/1-0	885560	12.69				
410-127761-9	HD-COD-SW-26-0/1-0	876755	12.70				
410-127761-10	HD-COD-SW-27-0/1-0	888940	12.69				
410-127761-11	HD-COD-SW-28-0/1-0	876721	12.69				
410-127761-12	HD-COD-SW-29-0/1-0	891702	12.69				
410-127761-13	HD-QC1-0/1-1	872131	12.69				

DCBd4 = 1,4-Dichlorobenzene-d4

DCBd4 = 1,4-Dichlorobenzene-d4

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

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1
 Environment Testing, LLC

SDG No.:

Sample No.: CCVIS 410-382118/3 Date Analyzed: 06/01/2023 20:41

Instrument ID: 10193 GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): CU01X02.D Heated Purge: (Y/N) N

Calibration ID: 49717

	TBA _d 10		FB		CBZ _d 5		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	155994	3.65	2240141	7.06	1680086	10.74	
UPPER LIMIT	311988	4.15	4480282	7.56	3360172	11.24	
LOWER LIMIT	77997	3.15	1120071	6.56	840043	10.24	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-382118/4	161877	3.64	2186329	7.06	1640401	10.74	
LCSD 410-382118/5	166759	3.62	2176382	7.06	1619002	10.74	
MB 410-382118/7	167710	3.64	2096671	7.06	1596637	10.74	
410-127761-8 DL	HD-COD-SW-17-0/1-0 DL	152717	3.65	1954205	7.06	1542700	10.74
410-127761-13 DL	HD-QC1-0/1-1 DL	148070	3.64	1899939	7.06	1515390	10.74

TBA_d10 = t-Butyl alcohol-d10 (IS)
 TBA_d10 = t-Butyl alcohol-d10 (IS)
 FB = Fluorobenzene (IS)
 FB = Fluorobenzene (IS)
 Area Limit = 50%-200% of internal standard area
 CBZ_d5 = Chlorobenzene-d5 (IS)
 RT Limit = ± 0.5 minutes of internal standard RT
 CBZ_d5 = Chlorobenzene-d5 (IS)
 # 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.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-1

Matrix: Water

Lab File ID: CY31X14.D

Analysis Method: 8260D

Date Collected: 05/23/2023 10:33

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 01:35

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.: 381658

Units: ug/L

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	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.8	J	5.0	1.0
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	0.19	J	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.17	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	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	0.097	J	0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-1

Matrix: Water

Lab File ID: CY31X14.D

Analysis Method: 8260D

Date Collected: 05/23/2023 10:33

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 01:35

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.: 381658

Units: ug/L

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	0.12	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)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		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\10193\20230531-85466.b\CY31X14.D
 Lims ID: 410-127761-A-1
 Client ID: HD-COD-SW-6-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 01:35:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-015
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 15:13:36 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp Date: 01-Jun-2023 15:13:36

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.873	1.879	-0.006	98	15803	0.1883	
6 Vinyl chloride	62		1.983				ND	7
9 Bromomethane	94		2.264				ND	7
10 Chloroethane	64		2.325				ND	
18 1,1-Dichloroethene	96		3.032				ND	7
20 Acetone	43	3.092	3.062	0.030	96	24988	2.79	
25 Carbon disulfide	76		3.276				ND	7
30 Methylene Chloride	84		3.580				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.659	3.641	0.018	97	188158	50.0	
34 Methyl tert-butyl ether	73		3.928				ND	7
35 trans-1,2-Dichloroethene	96		3.934				ND	
37 1,1-Dichloroethane	63		4.556				ND	
42 2-Butanone (MEK)	43		5.409				ND	7
43 cis-1,2-Dichloroethene	96	5.452	5.421	0.031	79	10832	0.1677	
48 Chlorobromomethane	128		5.757				ND	
50 Chloroform	83	5.933	5.921	0.012	88	5902	0.0552	
53 1,1,1-Trichloroethane	97		6.135				ND	
\$ 54 Dibromofluoromethane (Surr)	113	6.159	6.141	0.018	94	448017	9.01	
56 Carbon tetrachloride	117		6.348				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.604	0.012	100	95879	9.78	
60 Benzene	78		6.629				ND	
61 1,2-Dichloroethane	62		6.714				ND	7
* 65 Fluorobenzene (IS)	96	7.061	7.049	0.012	99	1909727	10.0	
68 Trichloroethene	95	7.567	7.543	0.024	95	7724	0.1193	a
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.244				ND	7
80 cis-1,3-Dichloropropene	75		8.817				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.024				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.158	9.152	0.006	93	1993644	10.5	
84 Toluene	92	9.250	9.238	0.012	98	14291	0.0975	
85 trans-1,3-Dichloropropene	75		9.543				ND	
87 1,1,2-Trichloroethane	97		9.762				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	9.859	9.841	0.018	92	1786	0.0258	
106 2-Hexanone	43		10.006				ND	7
108 Chlorodibromomethane	129		10.158				ND	
110 Ethylene Dibromide	107		10.268				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.737	10.738	-0.001	86	1591728	10.0	
113 Chlorobenzene	112		10.762				ND	
114 1,1,1,2-Tetrachloroethane	131		10.853				ND	
115 Ethylbenzene	91		10.859				ND	7
116 m-Xylene & p-Xylene	106		10.981				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.323				ND	7
119 Styrene	104		11.341				ND	7
120 Bromoform	173		11.500				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.786	0.006	93	742259	9.14	
126 1,1,2,2-Tetrachloroethane	83		11.902				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.694	12.688	0.006	94	885784	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSV_HP25_ISSS_00070

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X14.D

Injection Date: 01-Jun-2023 01:35:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-127761-A-1

Lab Sample ID: 410-127761-1

Worklist Smp#: 15

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

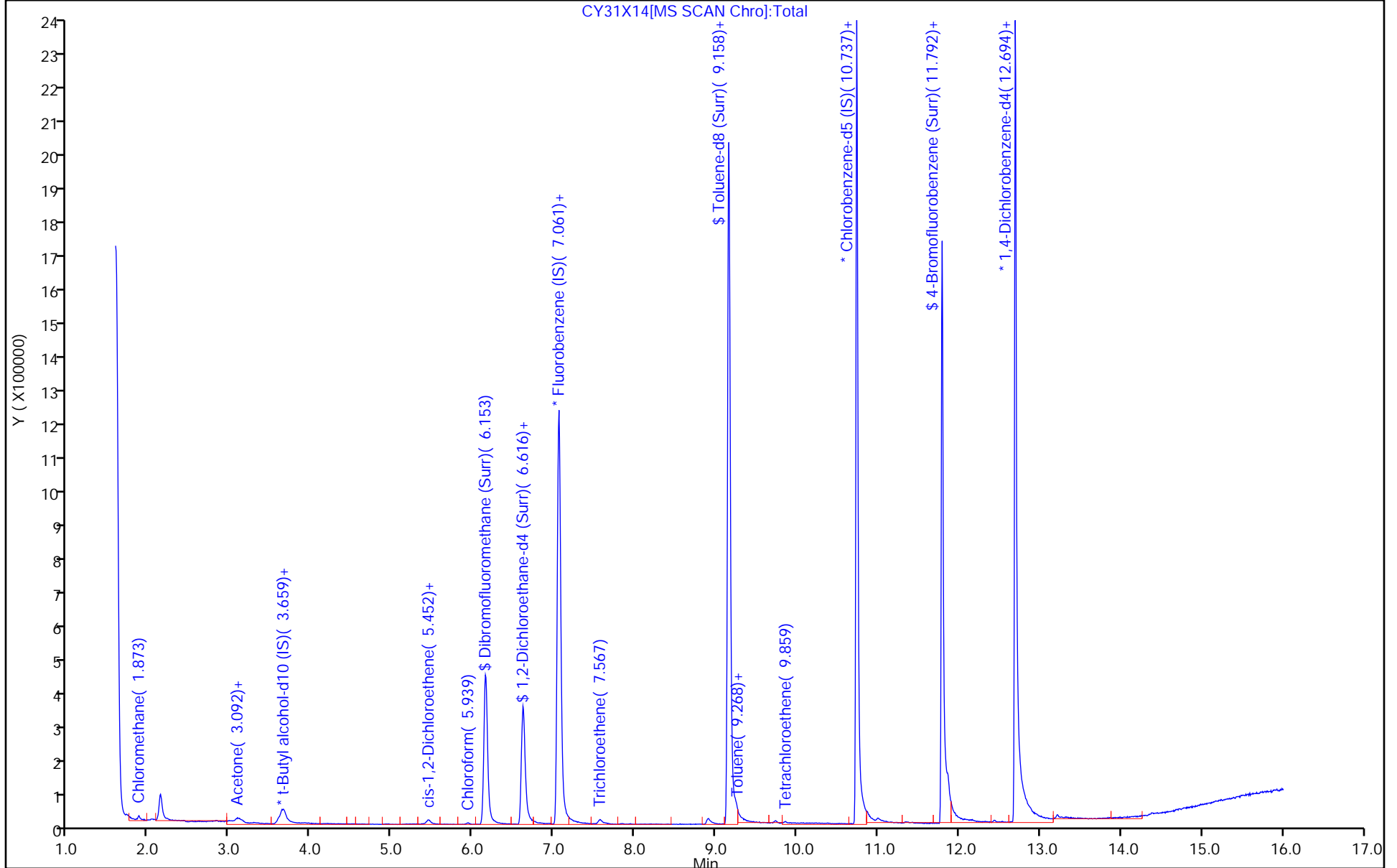
ALS Bottle#: 14

Method: MSV_10193_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\10193\20230531-85466.b\CY31X14.D
 Lims ID: 410-127761-A-1
 Client ID: HD-COD-SW-6-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 01:35:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-015
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 15:13:36 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp

Date: 01-Jun-2023 15:13:36

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.01	90.08
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.78	97.81
\$ 83 Toluene-d8 (Surr)	10.0	10.5	104.86
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.14	91.35

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X14.D

Injection Date: 01-Jun-2023 01:35:30

Instrument ID: 10193

Lims ID: 410-127761-A-1

Lab Sample ID: 410-127761-1

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

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

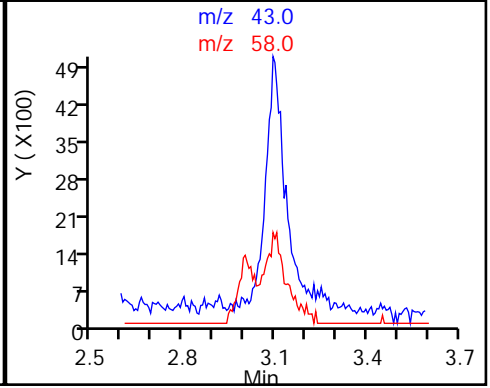
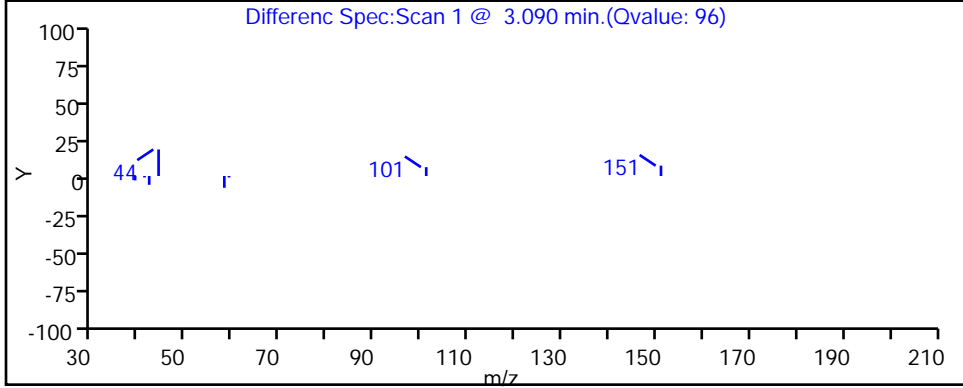
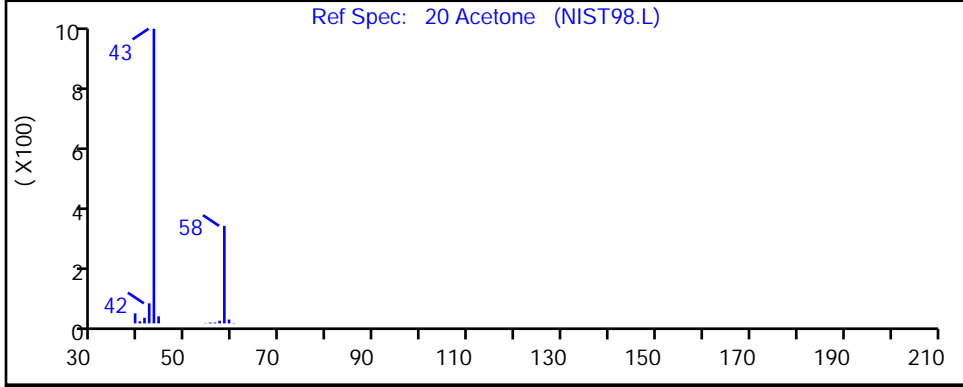
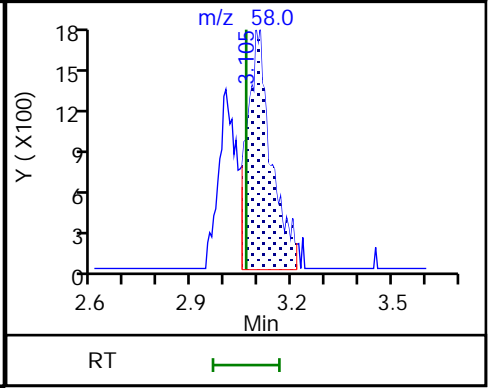
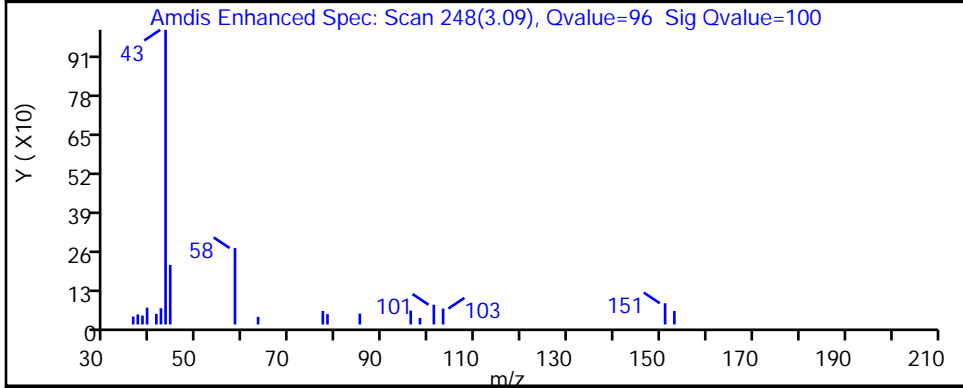
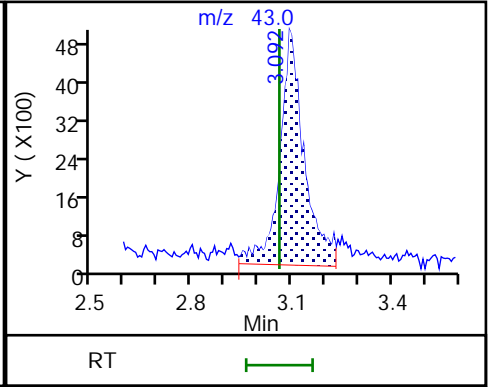
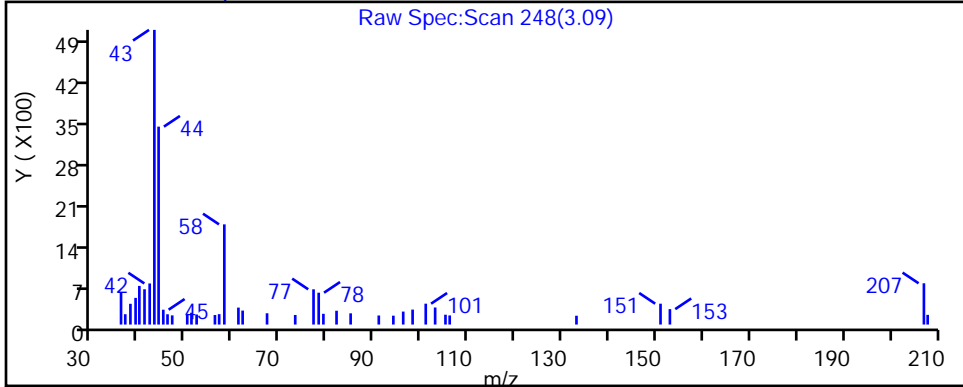
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

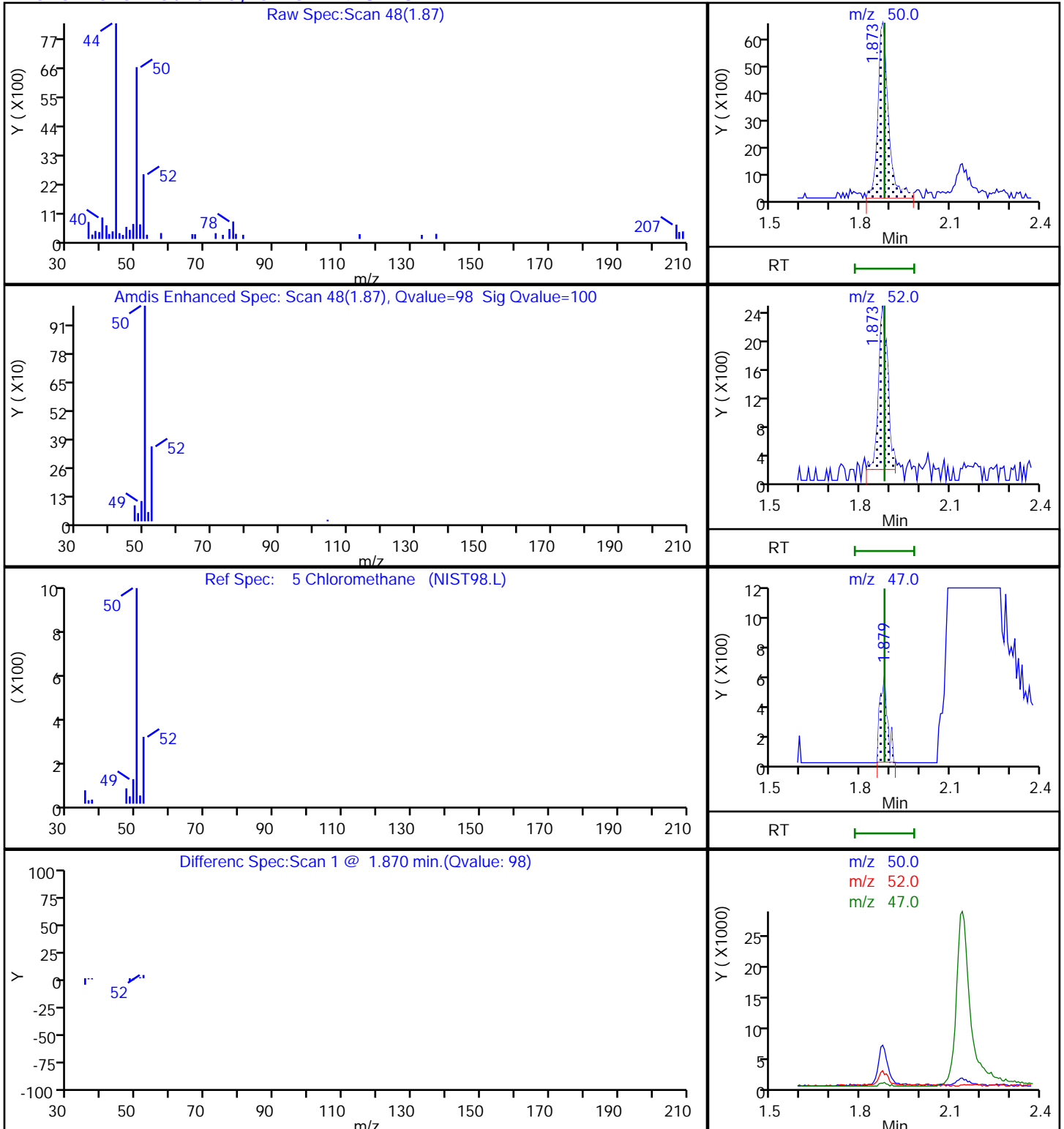
MS Quad

20 Acetone, CAS: 67-64-1



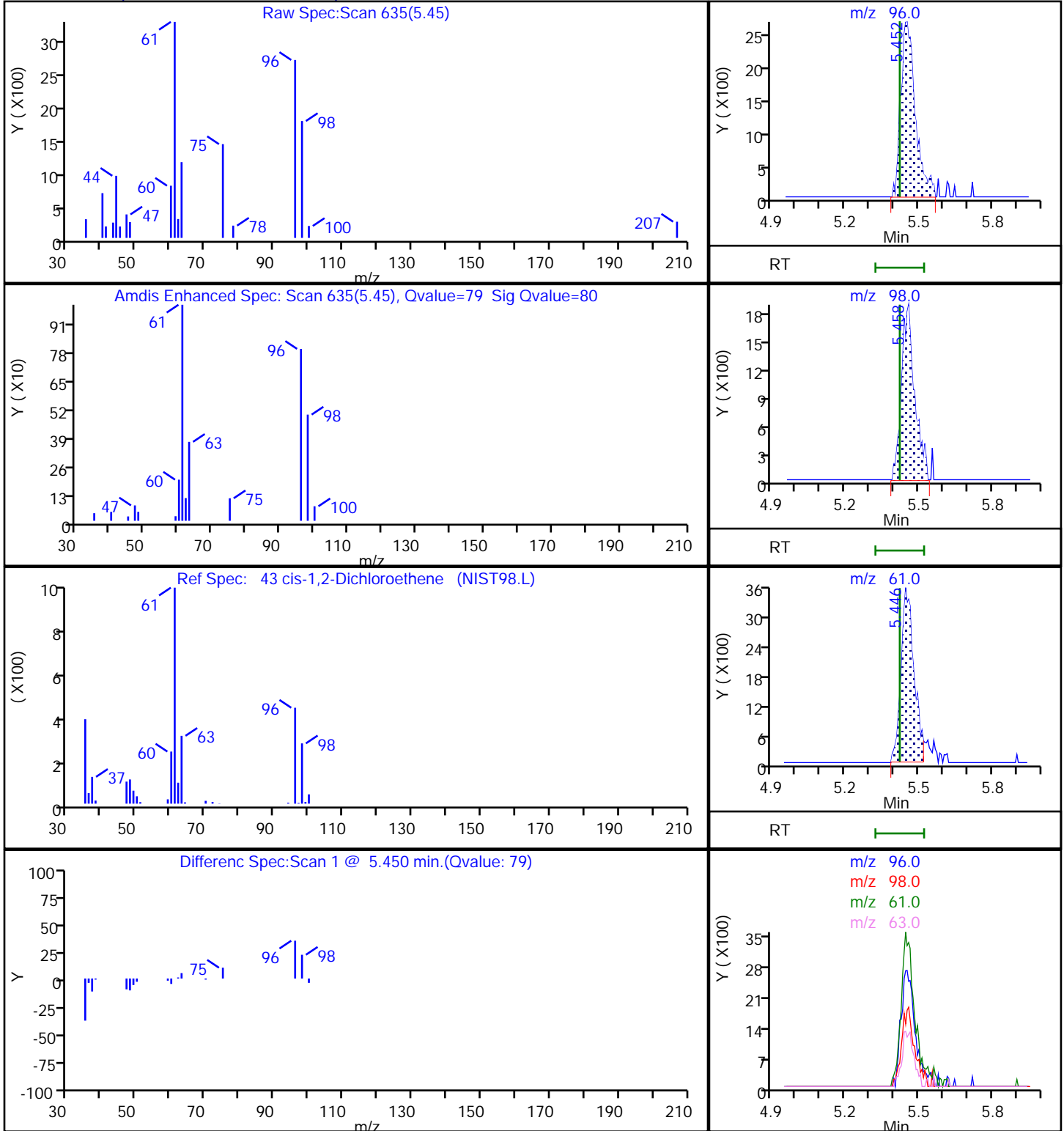
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Injection Date: 01-Jun-2023 01:35:30 Instrument ID: 10193
Lims ID: 410-127761-A-1 Lab Sample ID: 410-127761-1
Client ID: HD-COD-SW-6-0/1-0
Operator ID: gaw91131 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

5 Chloromethane, CAS: 74-87-3



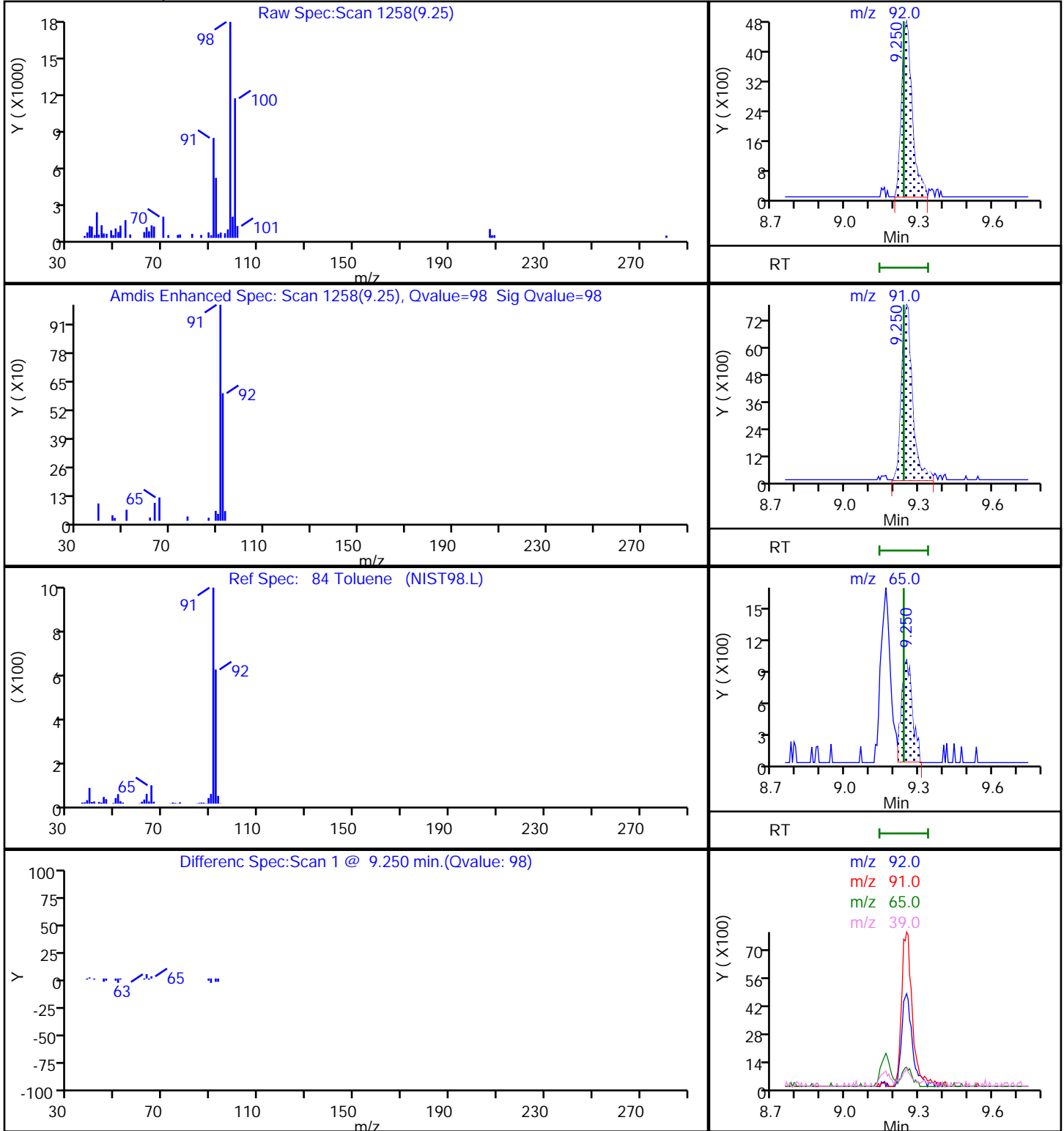
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Injection Date: 01-Jun-2023 01:35:30 Instrument ID: 10193
Lims ID: 410-127761-A-1 Lab Sample ID: 410-127761-1
Client ID: HD-COD-SW-6-0/1-0
Operator ID: gaw91131 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

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



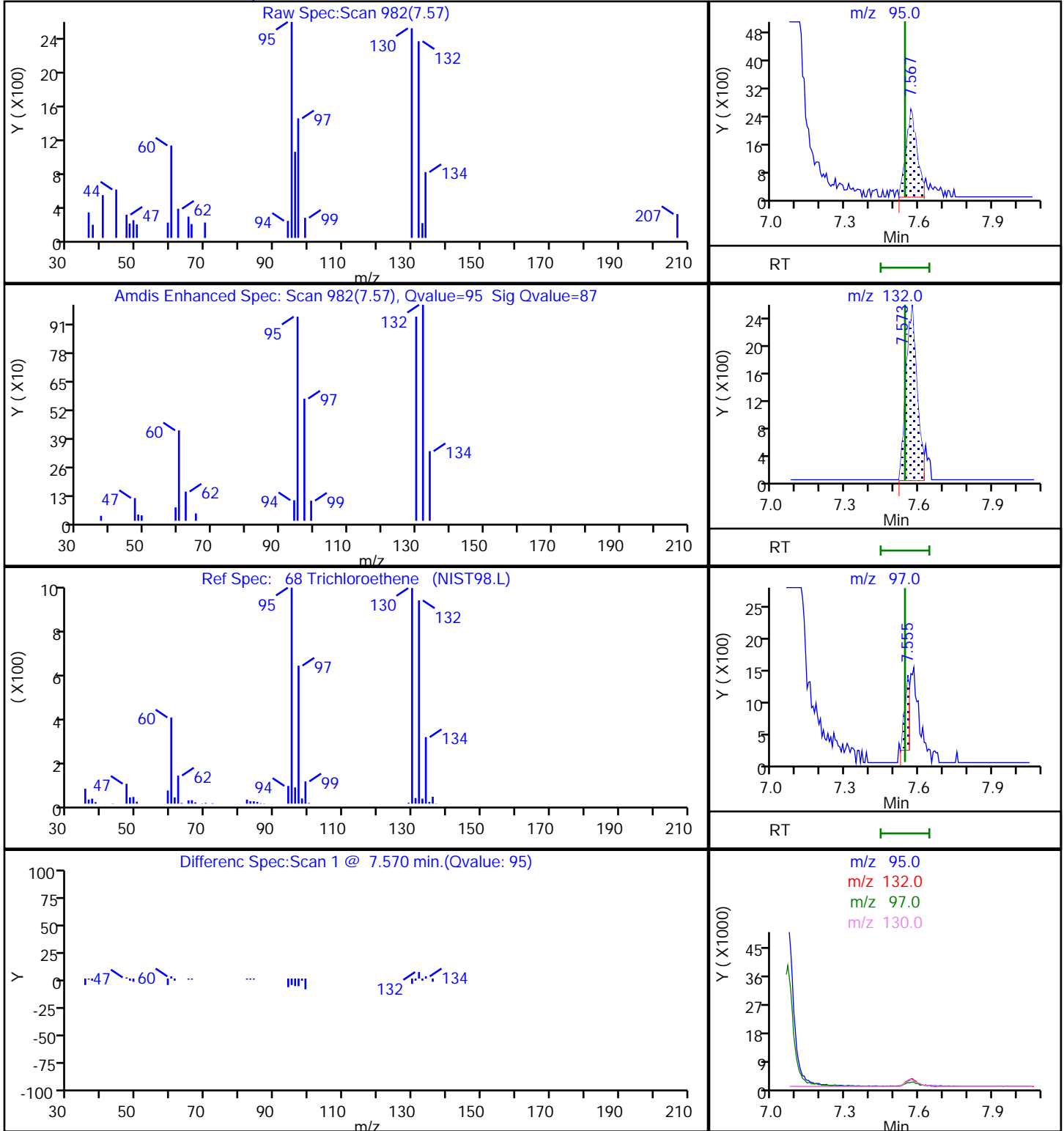
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Injection Date: 01-Jun-2023 01:35:30 Instrument ID: 10193
Lims ID: 410-127761-A-1 Lab Sample ID: 410-127761-1
Client ID: HD-COD-SW-6-0/1-0
Operator ID: gaw91131 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL 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\10193\20230531-85466.b\CY31X14.D
Injection Date: 01-Jun-2023 01:35:30 Instrument ID: 10193
Lims ID: 410-127761-A-1 Lab Sample ID: 410-127761-1
Client ID: HD-COD-SW-6-0/1-0
Operator ID: gaw91131 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_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

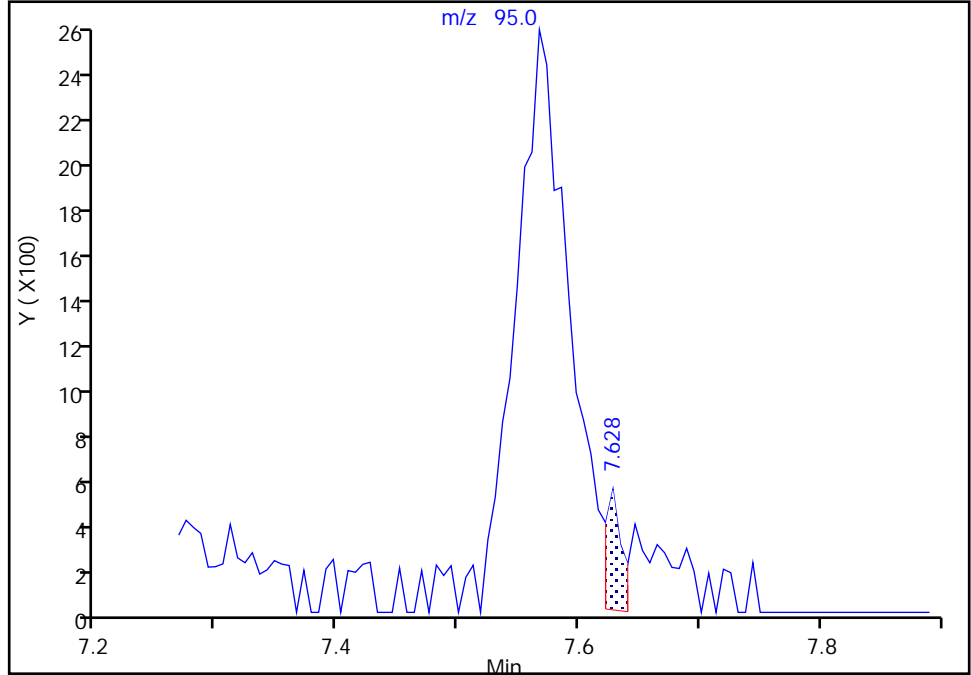
Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X14.D
Injection Date: 01-Jun-2023 01:35:30 Instrument ID: 10193
Lims ID: 410-127761-A-1 Lab Sample ID: 410-127761-1
Client ID: HD-COD-SW-6-0/1-0
Operator ID: gaw91131 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_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

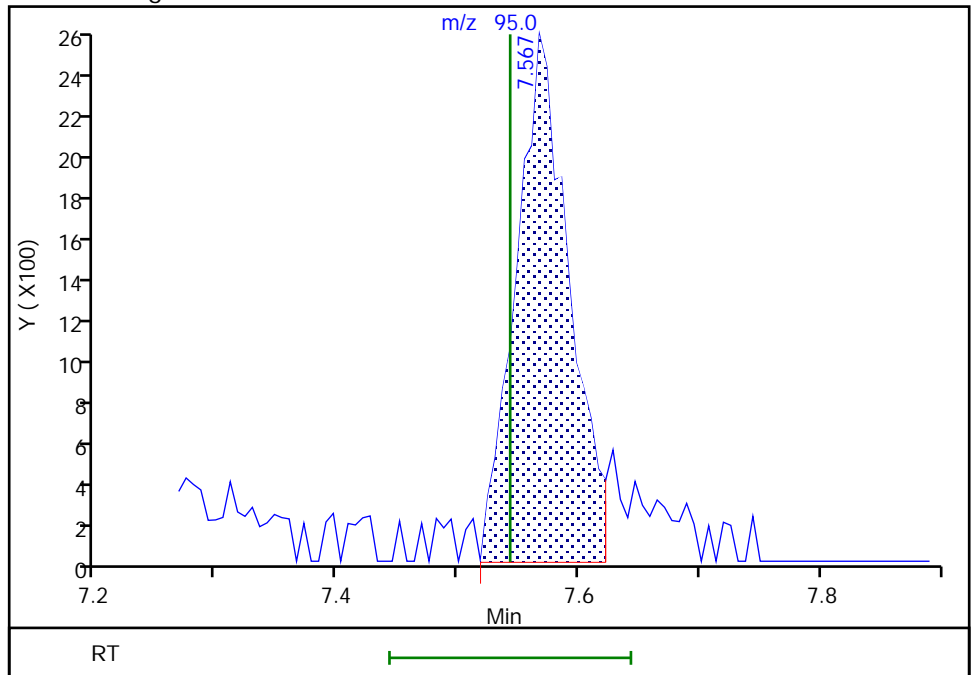
RT: 7.63
Area: 512
Amount: 0.007911
Amount Units: ug/l

Processing Integration Results



RT: 7.57
Area: 7724
Amount: 0.119346
Amount Units: ug/l

Manual Integration Results



Reviewer: kaewrungrueangp, 01-Jun-2023 15:13:22 07:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-2

Matrix: Water

Lab File ID: CY31X15.D

Analysis Method: 8260D

Date Collected: 05/23/2023 11:10

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 01:58

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 381658

Units: ug/L

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	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	3.0	J	5.0	1.0
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	0.20	J	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.25	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	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1
 Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-7-0/1-0 Lab Sample ID: 410-127761-2

Matrix: Water Lab File ID: CY31X15.D

Analysis Method: 8260D Date Collected: 05/23/2023 11:10

Sample wt/vol: 25 (mL) Date Analyzed: 06/01/2023 01:58

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

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

Analysis Batch No.: 381658 Units: ug/L

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	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)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	81		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		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\10193\20230531-85466.b\CY31X15.D
 Lims ID: 410-127761-A-2
 Client ID: HD-COD-SW-7-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 01:58:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-016
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 15:14:26 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp

Date:

01-Jun-2023 15:14:26

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.861	1.879	-0.018	99	16096	0.1960	
6 Vinyl chloride	62		1.983				ND	7
9 Bromomethane	94		2.264				ND	
10 Chloroethane	64		2.325				ND	7
18 1,1-Dichloroethene	96		3.032				ND	7
20 Acetone	43	3.086	3.062	0.024	98	26223	3.00	
25 Carbon disulfide	76		3.276				ND	7
30 Methylene Chloride	84		3.580				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.653	3.641	0.012	97	183323	50.0	
34 Methyl tert-butyl ether	73		3.928				ND	7
35 trans-1,2-Dichloroethene	96		3.934				ND	
37 1,1-Dichloroethane	63		4.556				ND	
42 2-Butanone (MEK)	43		5.409				ND	7
43 cis-1,2-Dichloroethene	96	5.434	5.421	0.013	79	15629	0.2472	
48 Chlorobromomethane	128		5.757				ND	
50 Chloroform	83	5.933	5.921	0.012	94	8717	0.0833	
53 1,1,1-Trichloroethane	97		6.135				ND	
\$ 54 Dibromofluoromethane (Surr)	113	6.147	6.141	0.006	94	439945	9.04	
56 Carbon tetrachloride	117		6.348				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.610	6.604	0.006	99	93685	9.76	
60 Benzene	78		6.629				ND	7
61 1,2-Dichloroethane	62		6.714				ND	
* 65 Fluorobenzene (IS)	96	7.055	7.049	0.006	99	1869453	10.0	
68 Trichloroethene	95	7.561	7.543	0.018	99	13397	0.2115	
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.244				ND	7
80 cis-1,3-Dichloropropene	75		8.817				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.024				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.158	9.152	0.006	93	1968649	10.4	
84 Toluene	92	9.250	9.238	0.012	99	10694	0.0733	
85 trans-1,3-Dichloropropene	75		9.543				ND	
87 1,1,2-Trichloroethane	97		9.762				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	9.847	9.841	0.006	93	3715	0.0539	M
106 2-Hexanone	43		10.006				ND	7
108 Chlorodibromomethane	129		10.158				ND	
110 Ethylene Dibromide	107		10.268				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.737	10.738	-0.001	85	1583854	10.0	
113 Chlorobenzene	112		10.762				ND	
114 1,1,1,2-Tetrachloroethane	131		10.853				ND	
115 Ethylbenzene	91		10.859				ND	7
116 m-Xylene & p-Xylene	106		10.981				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.323				ND	
119 Styrene	104		11.341				ND	7
120 Bromoform	173		11.500				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.786	0.006	93	658037	8.14	
126 1,1,2,2-Tetrachloroethane	83		11.902				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.694	12.688	0.006	94	880643	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_HP25_ISSS_00070

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X15.D

Injection Date: 01-Jun-2023 01:58:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-127761-A-2

Lab Sample ID: 410-127761-2

Worklist Smp#: 16

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

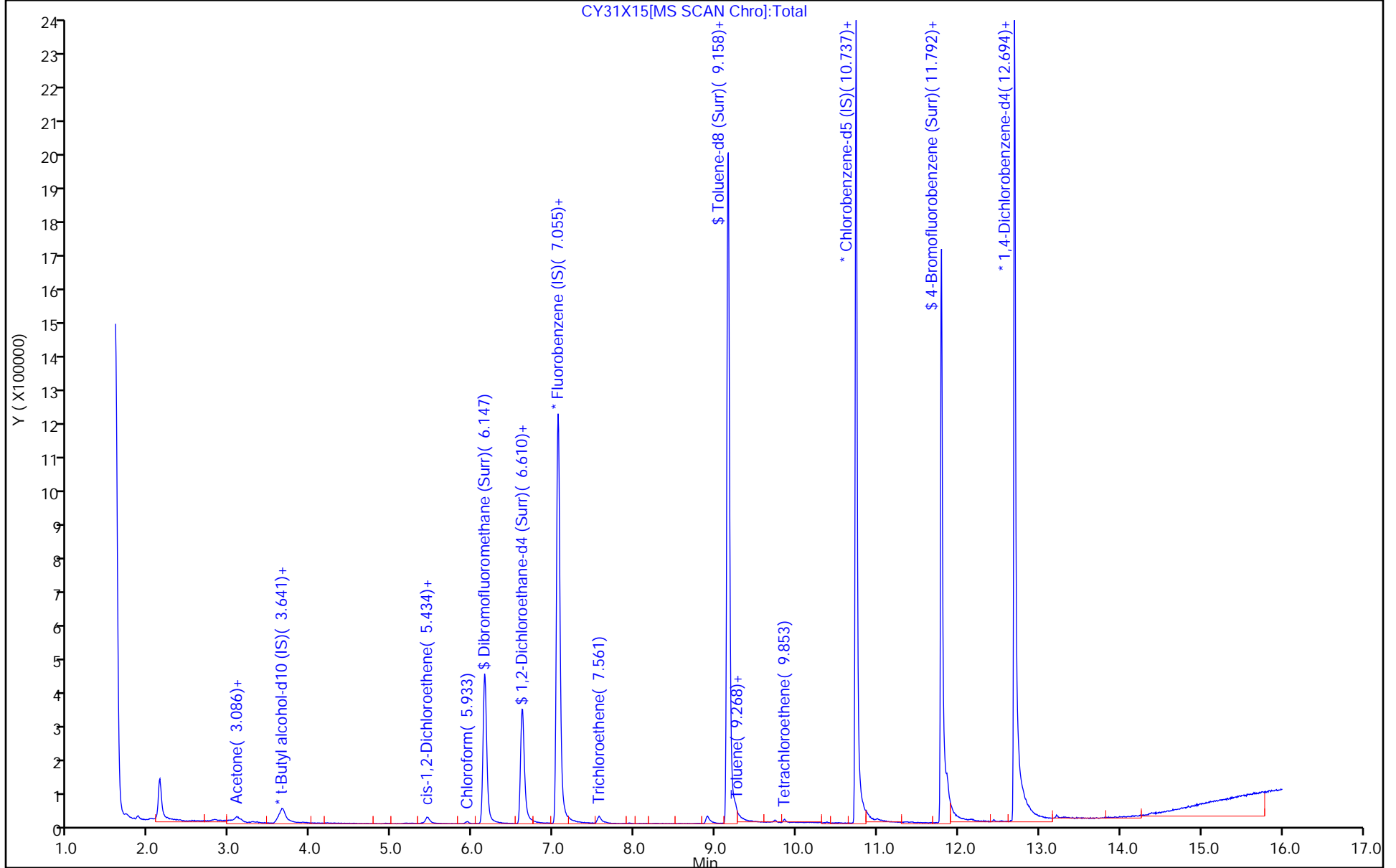
ALS Bottle#: 15

Method: MSV_10193_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\10193\20230531-85466.b\CY31X15.D
 Lims ID: 410-127761-A-2
 Client ID: HD-COD-SW-7-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 01:58:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-016
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 15:14:26 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp

Date: 01-Jun-2023 15:14:26

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.04	90.36
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.76	97.63
\$ 83 Toluene-d8 (Surr)	10.0	10.4	104.07
\$ 124 4-Bromofluorobenzene (Surr)	10.0	8.14	81.39

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X15.D

Injection Date: 01-Jun-2023 01:58:30

Instrument ID: 10193

Lims ID: 410-127761-A-2

Lab Sample ID: 410-127761-2

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

Operator ID: gaw91131

ALS Bottle#: 15

Worklist Smp#: 16

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

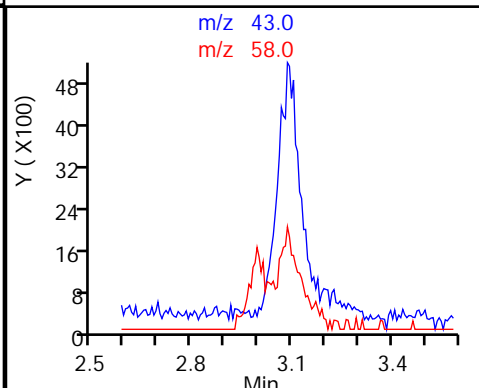
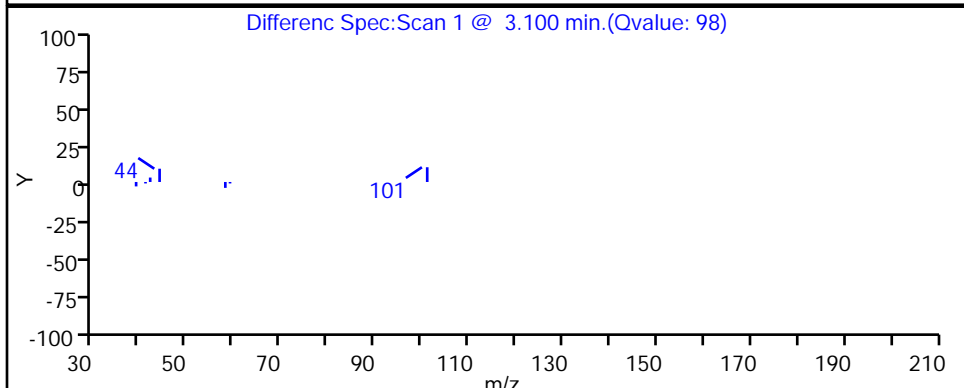
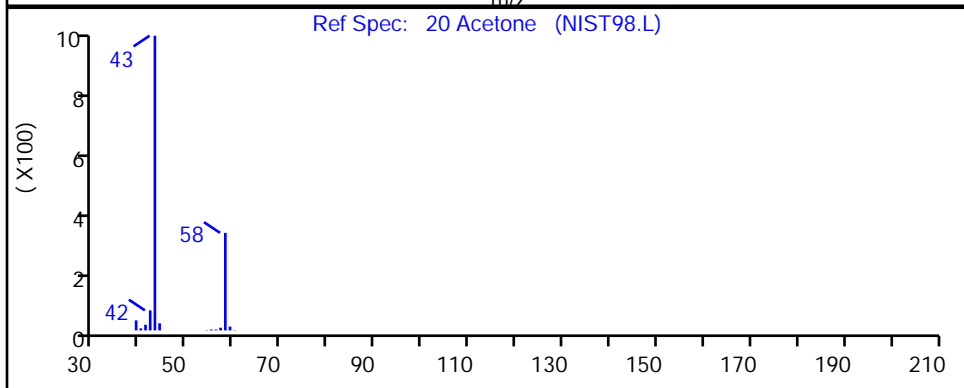
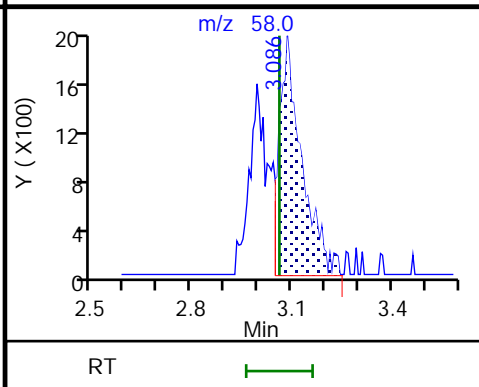
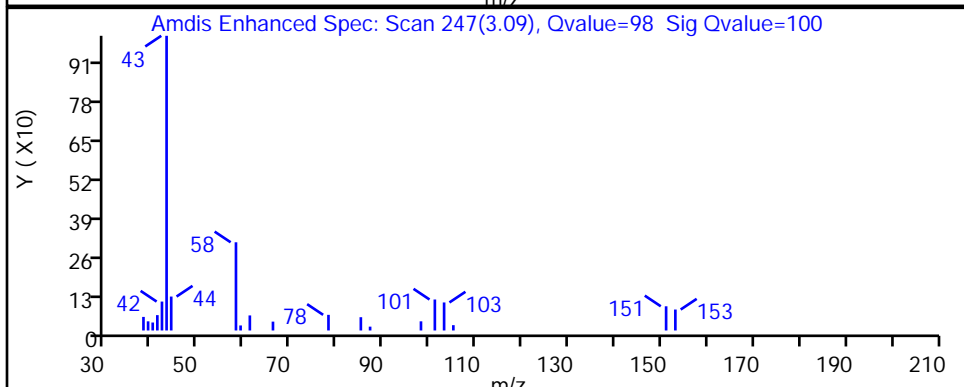
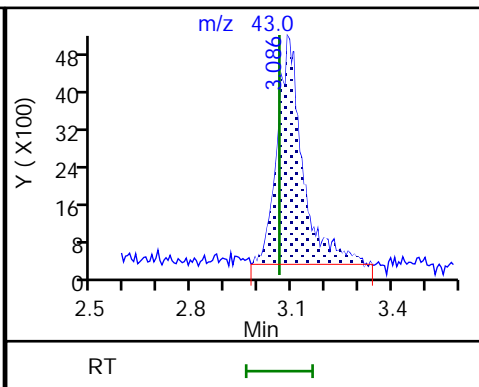
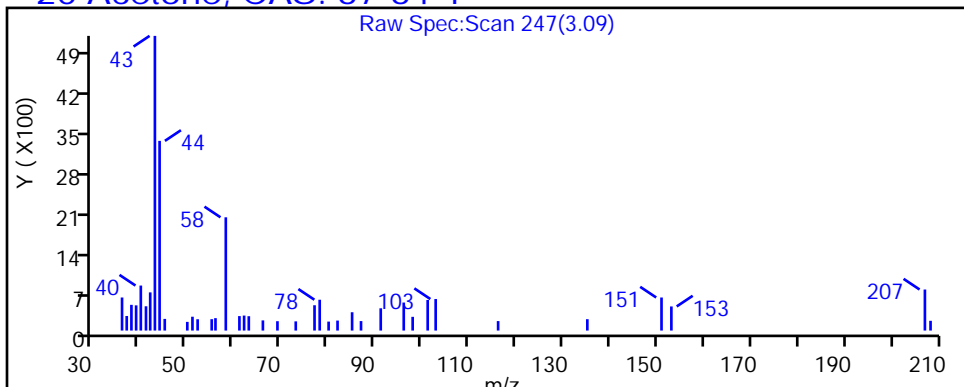
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

20 Acetone, CAS: 67-64-1



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X15.D

Injection Date: 01-Jun-2023 01:58:30

Instrument ID: 10193

Lims ID: 410-127761-A-2

Lab Sample ID: 410-127761-2

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

Operator ID: gaw91131

ALS Bottle#: 15

Worklist Smp#: 16

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

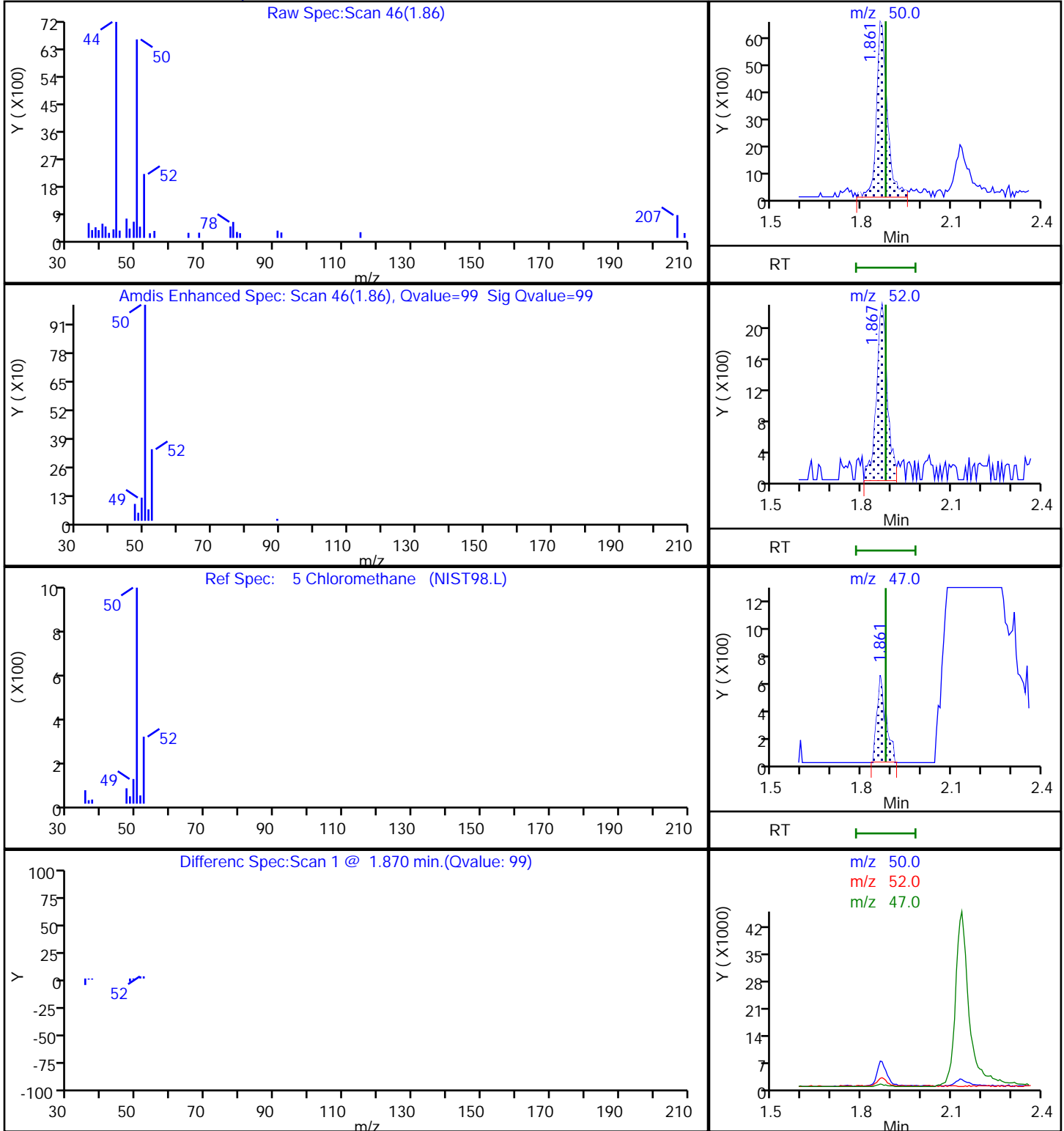
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

5 Chloromethane, CAS: 74-87-3



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X15.D

Injection Date: 01-Jun-2023 01:58:30

Instrument ID: 10193

Lims ID: 410-127761-A-2

Lab Sample ID: 410-127761-2

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

Operator ID: gaw91131

ALS Bottle#: 15

Worklist Smp#: 16

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

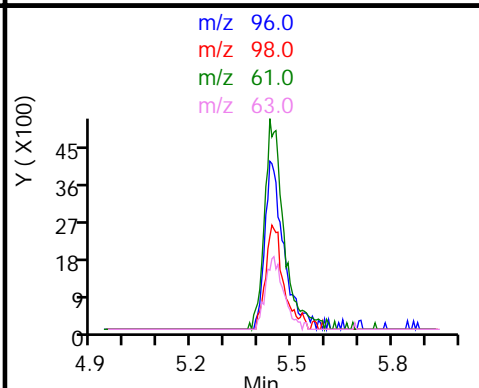
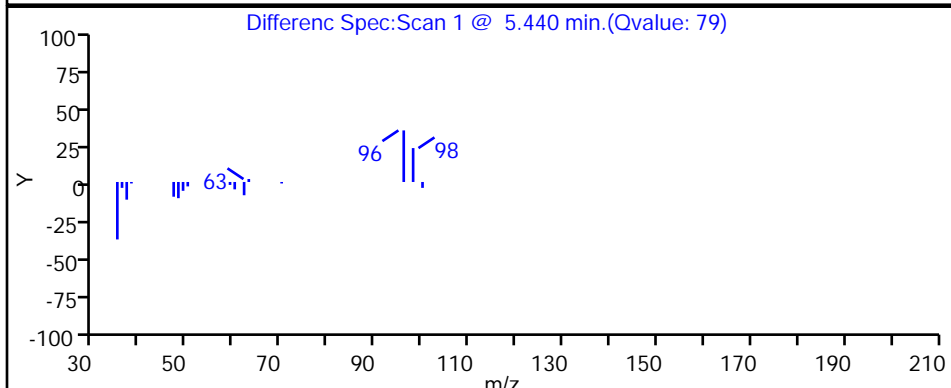
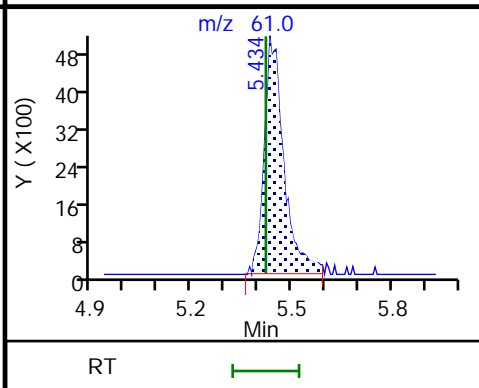
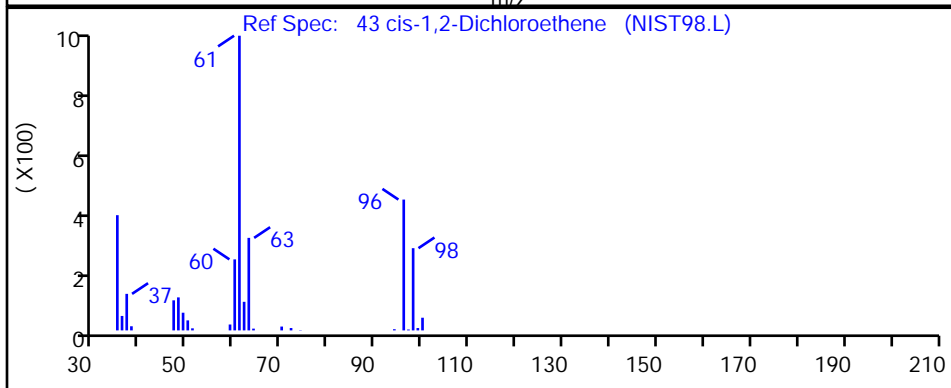
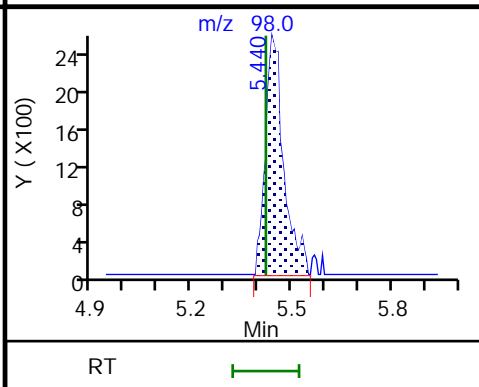
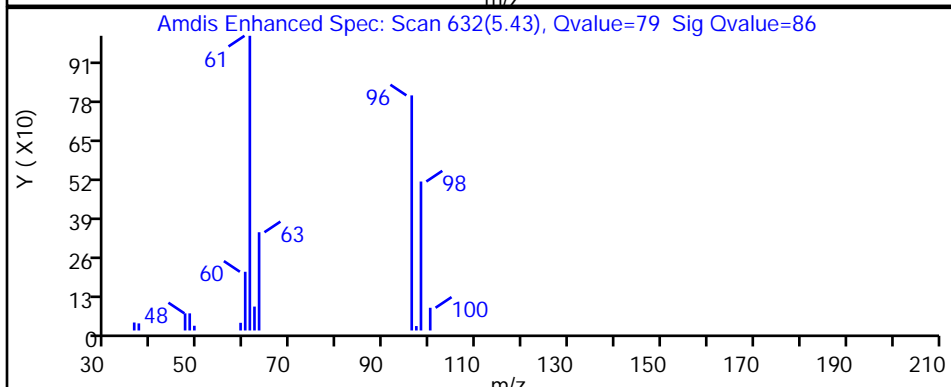
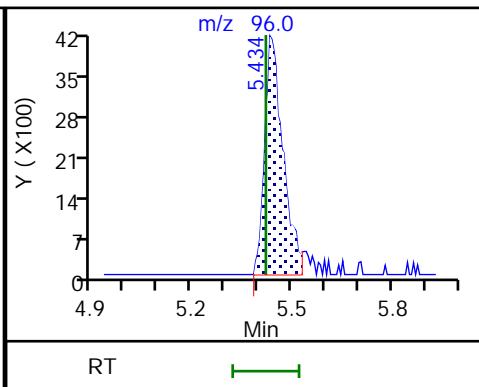
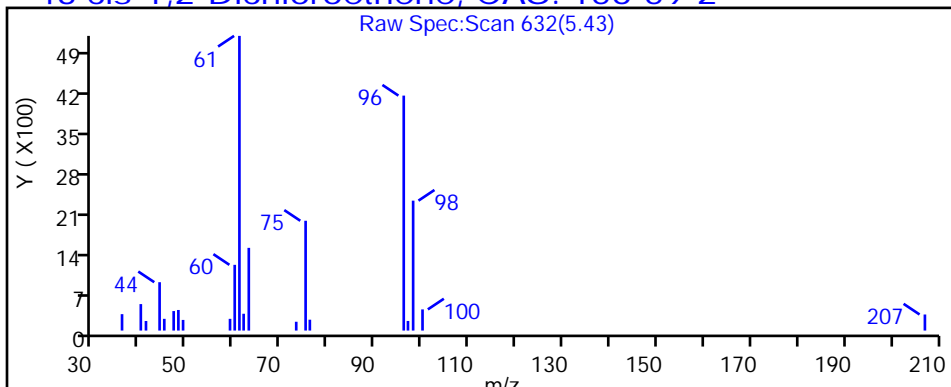
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X15.D

Injection Date: 01-Jun-2023 01:58:30

Instrument ID: 10193

Lims ID: 410-127761-A-2

Lab Sample ID: 410-127761-2

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

Operator ID: gaw91131

ALS Bottle#: 15

Worklist Smp#: 16

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

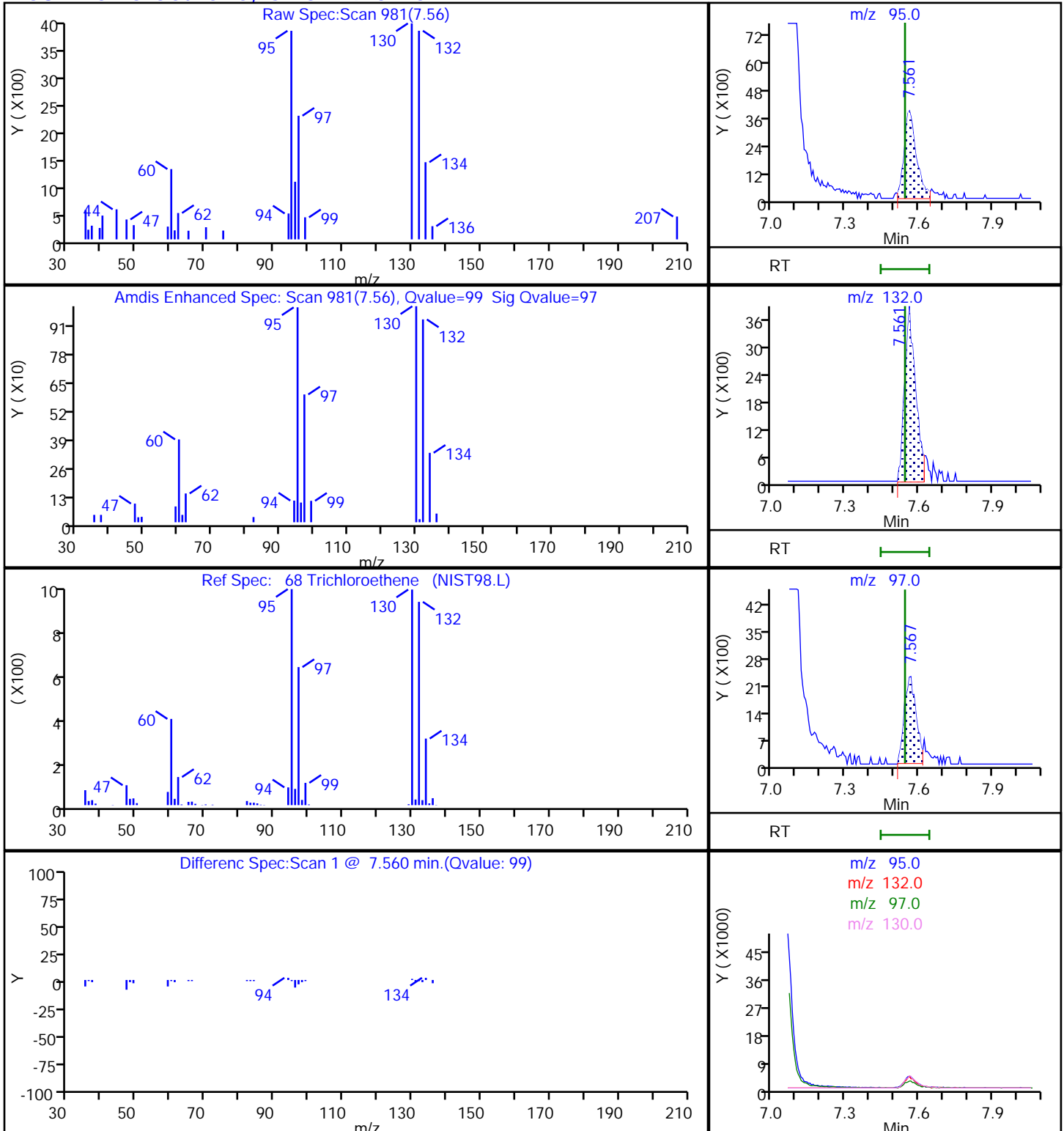
Method: MSV_10193_25mL

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

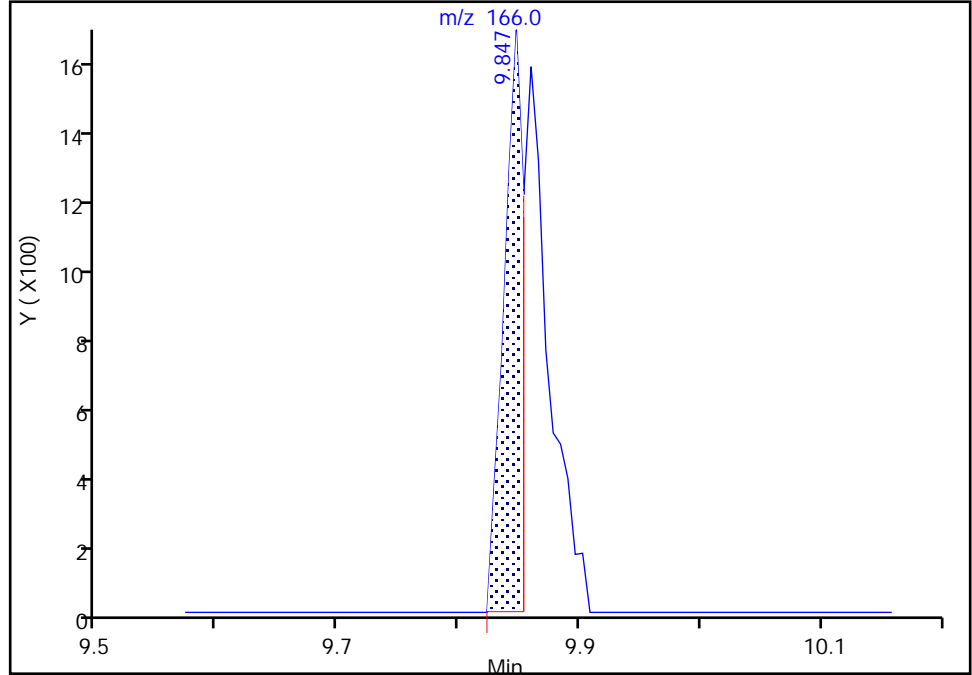
Data File:	\\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X15.D		
Injection Date:	01-Jun-2023 01:58:30	Instrument ID:	10193
Lims ID:	410-127761-A-2	Lab Sample ID:	410-127761-2
Client ID:	HD-COD-SW-7-0/1-0		
Operator ID:	gaw91131	ALS Bottle#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D
Column:	Rxi-624Sil MS Capillary Column (0.25mm ID)	Detector:	MS Quad
		Worklist Smp#:	16

88 Tetrachloroethene, CAS: 127-18-4

Signal: 1

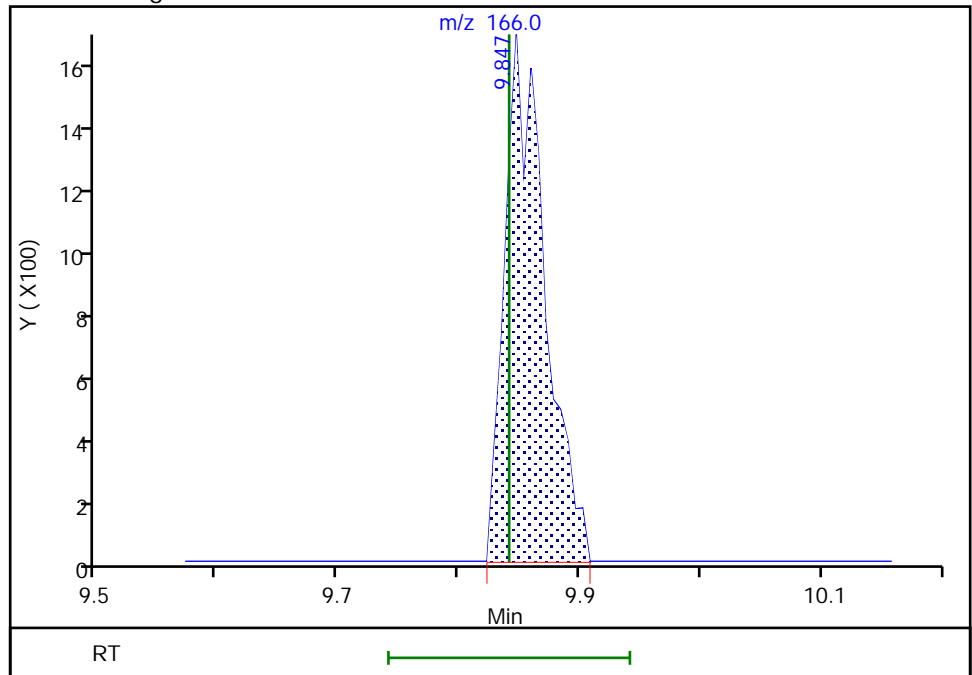
RT: 9.85
 Area: 1840
 Amount: 0.026716
 Amount Units: ug/l

Processing Integration Results



RT: 9.85
 Area: 3715
 Amount: 0.053941
 Amount Units: ug/l

Manual Integration Results



Reviewer: kaewrungrueangp, 01-Jun-2023 15:14:13 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.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-3

Matrix: Water

Lab File ID: CY31X16.D

Analysis Method: 8260D

Date Collected: 05/23/2023 09:20

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 02:20

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.: 381658

Units: ug/L

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	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.4	J	5.0	1.0
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	0.14	J	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.22	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.40	J	0.50	0.20
108-88-3	Toluene	0.085	J	0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-3

Matrix: Water

Lab File ID: CY31X16.D

Analysis Method: 8260D

Date Collected: 05/23/2023 09:20

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 02:20

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.: 381658

Units: ug/L

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	0.20	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)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	91		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\10193\20230531-85466.b\CY31X16.D
 Lims ID: 410-127761-A-3
 Client ID: HD-COD-SW-8-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 02:20:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-017
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 15:14:26 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp

Date:

01-Jun-2023 15:14:57

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.861	1.879	-0.018	99	11372	0.1383	
6 Vinyl chloride	62		1.983				ND	7
9 Bromomethane	94		2.264				ND	
10 Chloroethane	64		2.325				ND	
18 1,1-Dichloroethene	96		3.032				ND	7
20 Acetone	43	3.086	3.062	0.024	99	21651	2.41	
25 Carbon disulfide	76		3.276				ND	7
30 Methylene Chloride	84		3.580				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.641	3.641	0.000	98	188773	50.0	
34 Methyl tert-butyl ether	73		3.928				ND	7
35 trans-1,2-Dichloroethene	96		3.934				ND	
37 1,1-Dichloroethane	63		4.556				ND	7
42 2-Butanone (MEK)	43		5.409				ND	7
43 cis-1,2-Dichloroethene	96	5.446	5.421	0.025	79	13846	0.2188	
48 Chlorobromomethane	128		5.757				ND	
50 Chloroform	83	5.940	5.921	0.019	93	6759	0.0645	
53 1,1,1-Trichloroethane	97		6.135				ND	7
\$ 54 Dibromofluoromethane (Surr)	113	6.147	6.141	0.006	94	441644	9.06	
56 Carbon tetrachloride	117		6.348				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.610	6.604	0.006	100	91555	9.53	
60 Benzene	78		6.629				ND	7
61 1,2-Dichloroethane	62		6.714				ND	
* 65 Fluorobenzene (IS)	96	7.055	7.049	0.006	99	1871301	10.0	
68 Trichloroethene	95	7.567	7.543	0.024	98	12395	0.1955	
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.244				ND	7
80 cis-1,3-Dichloropropene	75		8.817				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.024				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.152	9.152	0.000	93	1958743	10.5	
84 Toluene	92	9.244	9.238	0.006	97	12237	0.0851	
85 trans-1,3-Dichloropropene	75		9.543				ND	
87 1,1,2-Trichloroethane	97		9.762				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	9.847	9.841	0.006	96	27258	0.4016	
106 2-Hexanone	43		10.006				ND	7
108 Chlorodibromomethane	129		10.158				ND	
110 Ethylene Dibromide	107		10.268				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.737	10.738	-0.001	85	1560885	10.0	
113 Chlorobenzene	112		10.762				ND	
114 1,1,1,2-Tetrachloroethane	131		10.853				ND	
115 Ethylbenzene	91		10.859				ND	7
116 m-Xylene & p-Xylene	106		10.981				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.323				ND	7
119 Styrene	104		11.341				ND	7
120 Bromoform	173		11.500				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.786	0.006	93	727043	9.12	
126 1,1,2,2-Tetrachloroethane	83		11.902				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.694	12.688	0.006	94	891460	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP25_ISSS_00070

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X16.D

Injection Date: 01-Jun-2023 02:20:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-127761-A-3

Lab Sample ID: 410-127761-3

Worklist Smp#: 17

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

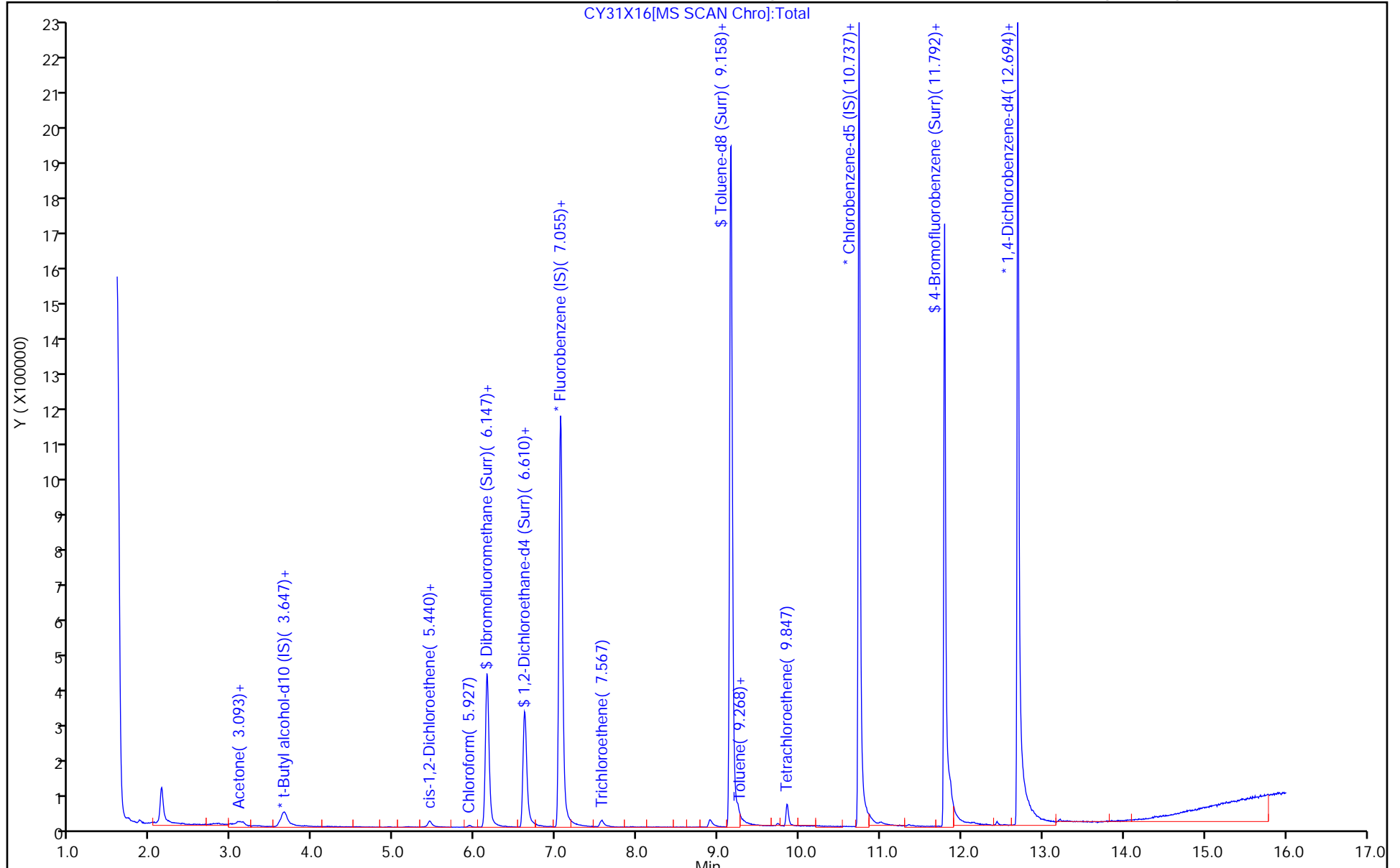
ALS Bottle#: 16

Method: MSV_10193_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\10193\20230531-85466.b\CY31X16.D
 Lims ID: 410-127761-A-3
 Client ID: HD-COD-SW-8-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 02:20:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-017
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 15:14:26 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp

Date: 01-Jun-2023 15:14:57

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.06	90.62
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.53	95.32
\$ 83 Toluene-d8 (Surr)	10.0	10.5	105.07
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.12	91.25

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X16.D

Injection Date: 01-Jun-2023 02:20:30

Instrument ID: 10193

Lims ID: 410-127761-A-3

Lab Sample ID: 410-127761-3

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

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

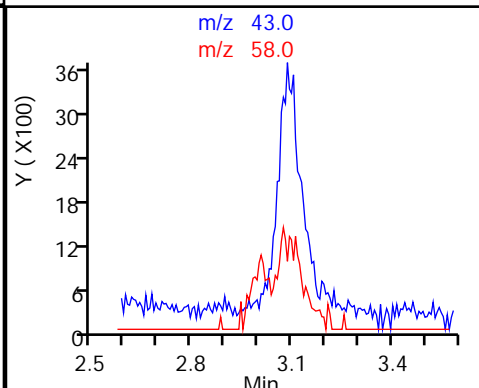
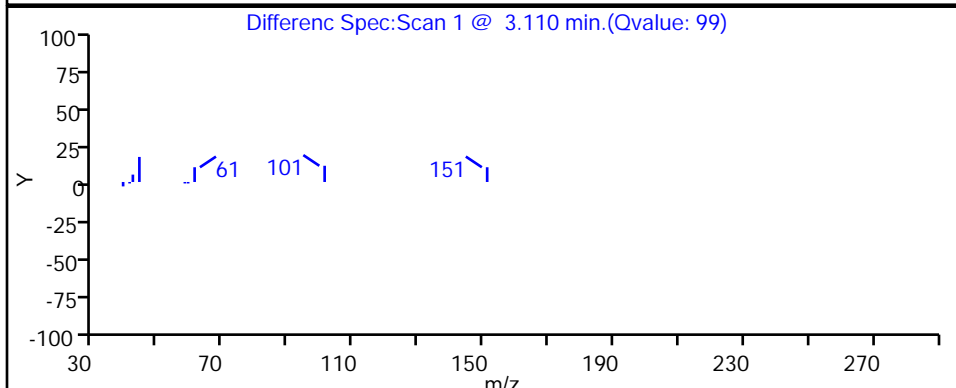
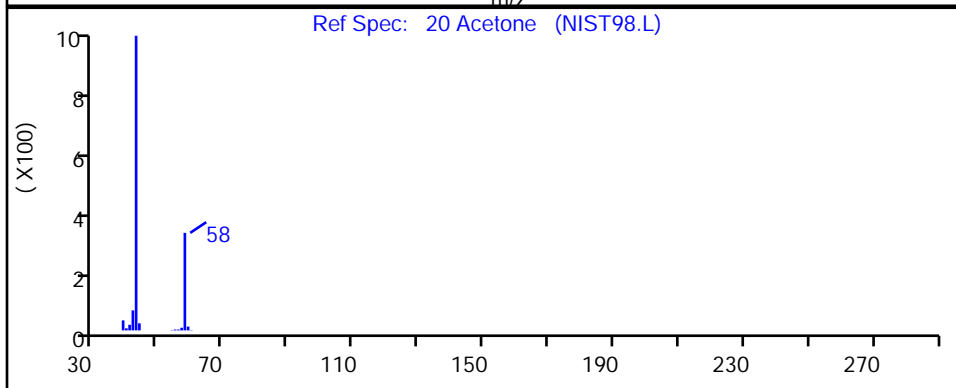
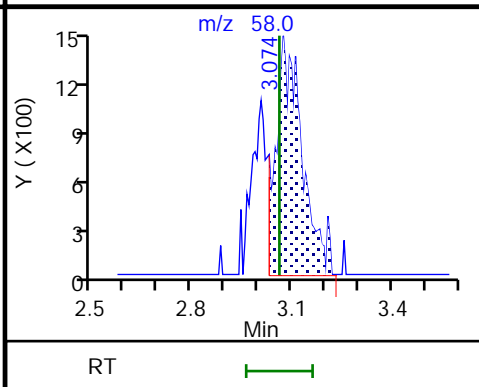
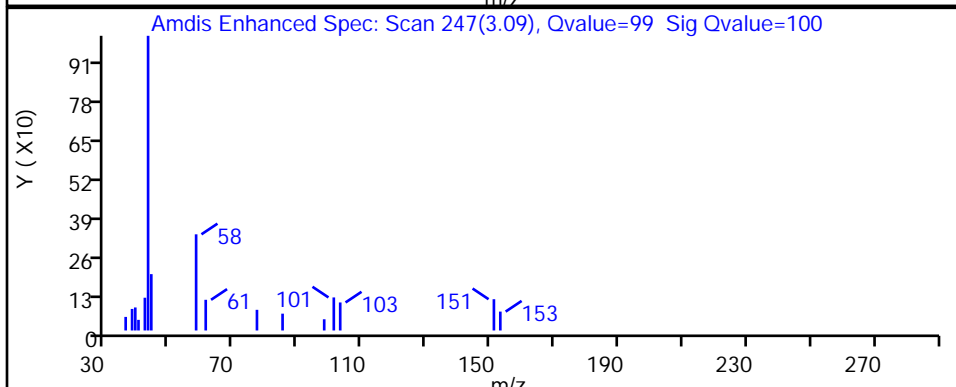
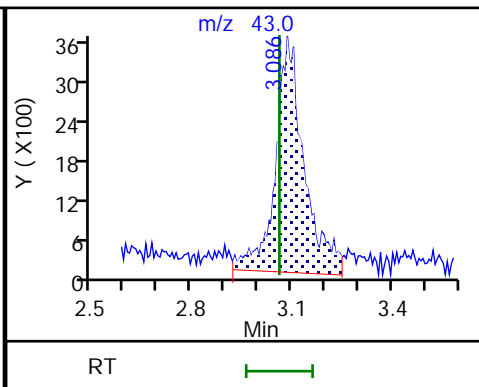
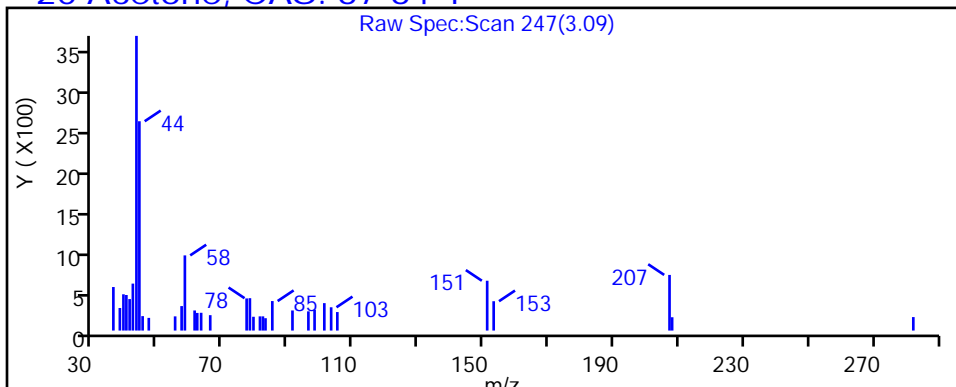
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

20 Acetone, CAS: 67-64-1



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X16.D

Injection Date: 01-Jun-2023 02:20:30

Instrument ID: 10193

Lims ID: 410-127761-A-3

Lab Sample ID: 410-127761-3

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

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

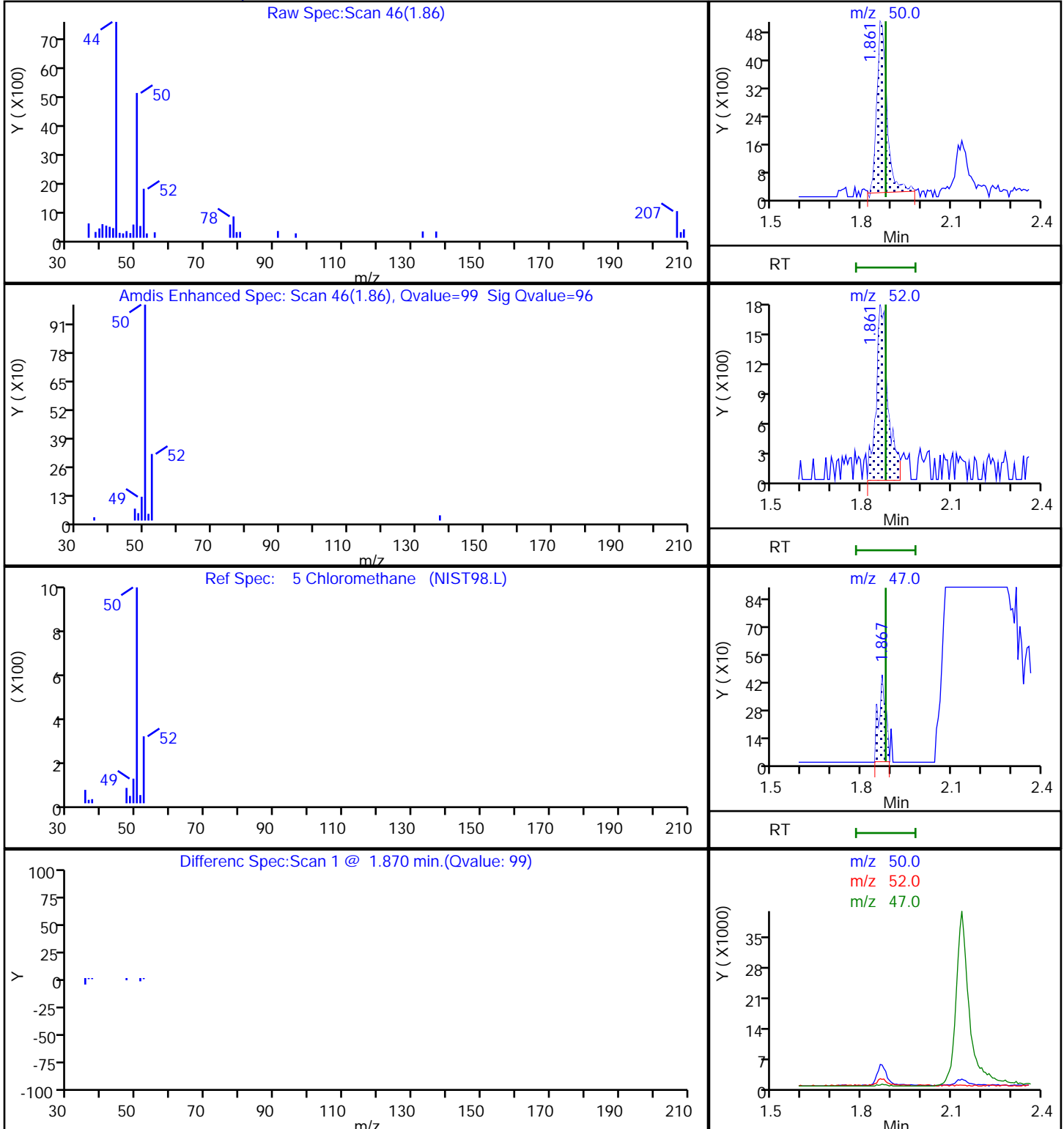
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

5 Chloromethane, CAS: 74-87-3



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X16.D

Injection Date: 01-Jun-2023 02:20:30

Instrument ID: 10193

Lims ID: 410-127761-A-3

Lab Sample ID: 410-127761-3

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

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

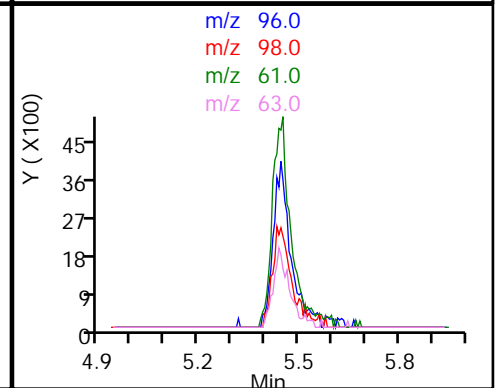
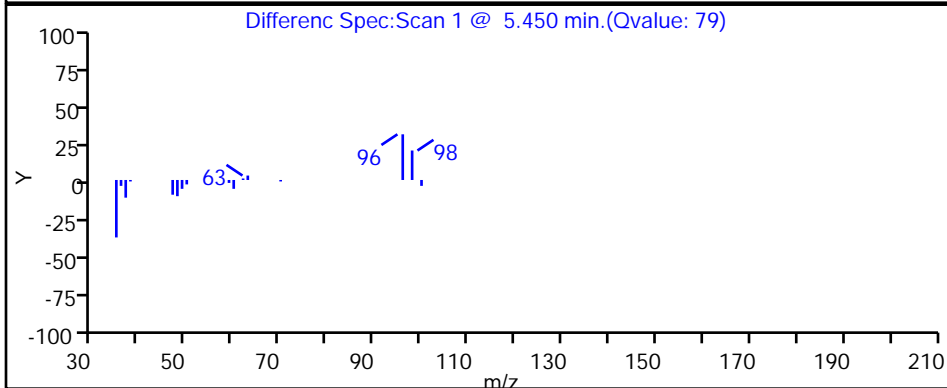
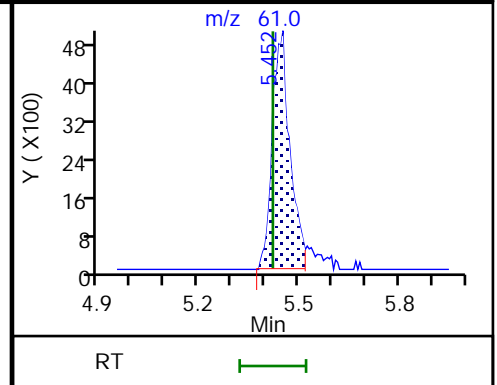
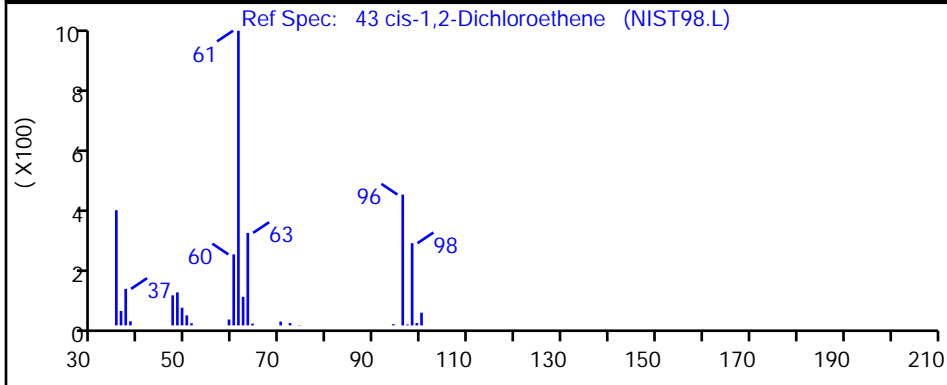
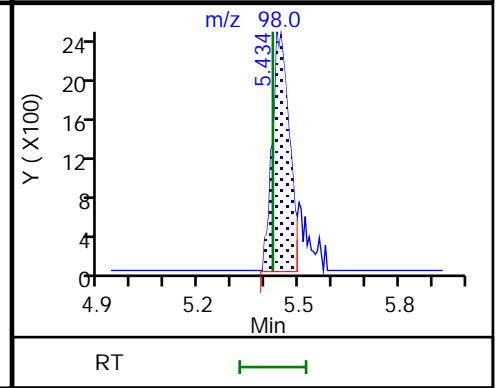
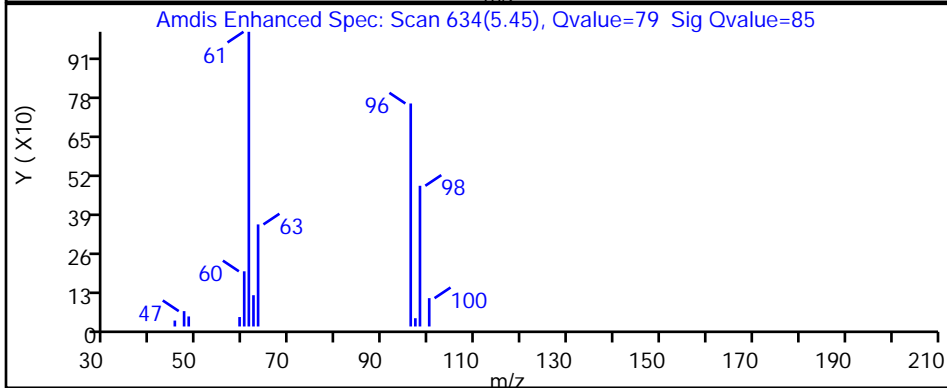
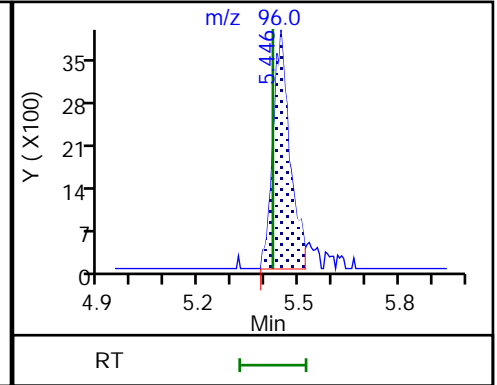
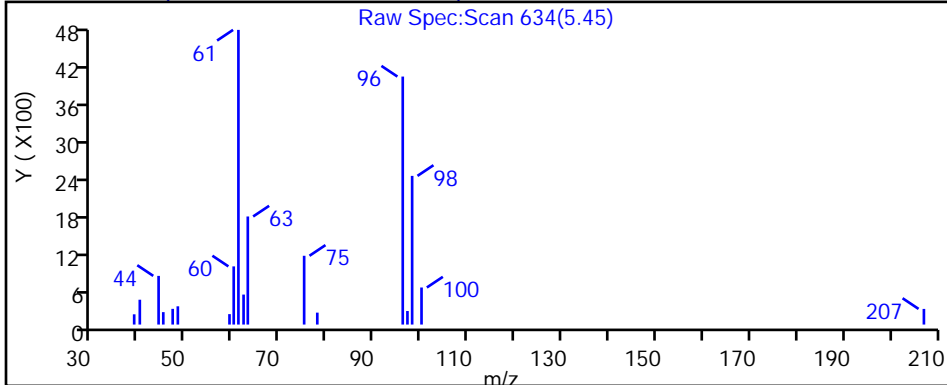
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X16.D

Injection Date: 01-Jun-2023 02:20:30

Instrument ID: 10193

Lims ID: 410-127761-A-3

Lab Sample ID: 410-127761-3

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

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

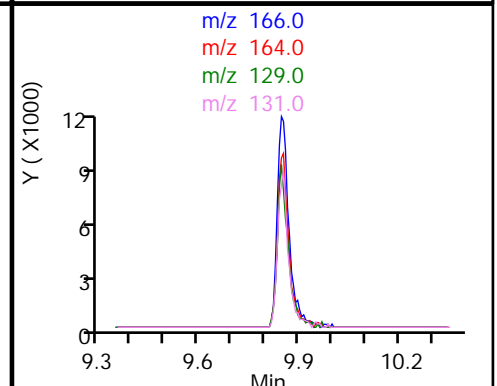
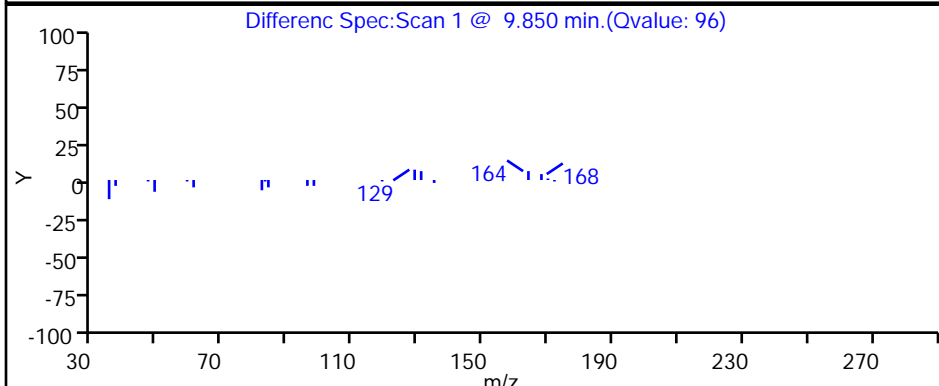
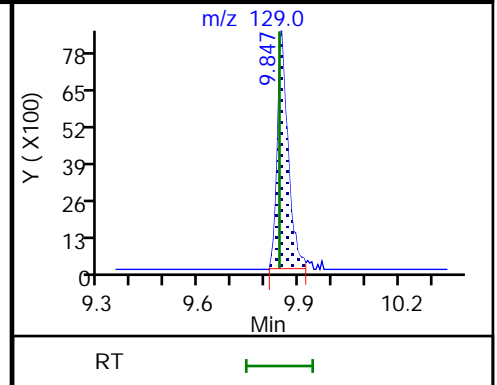
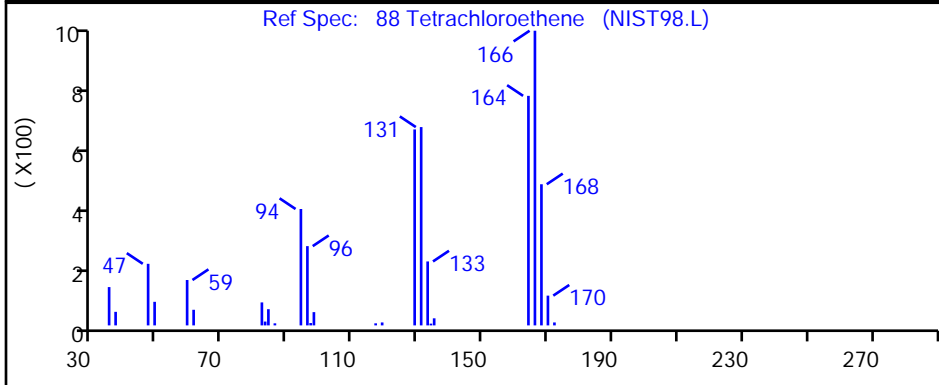
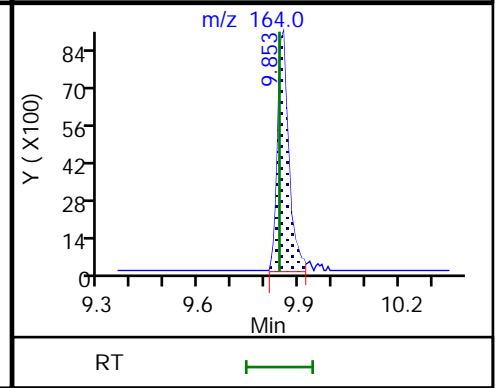
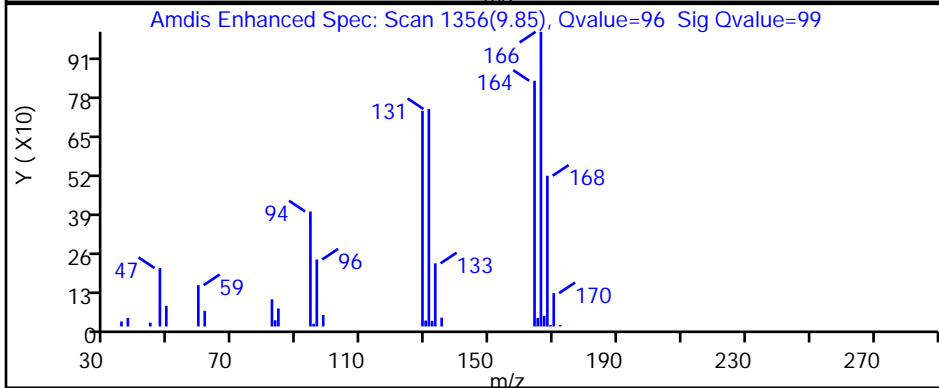
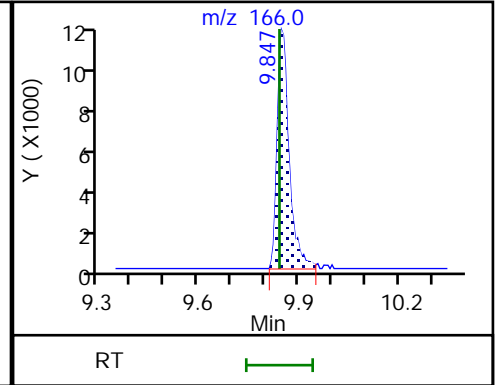
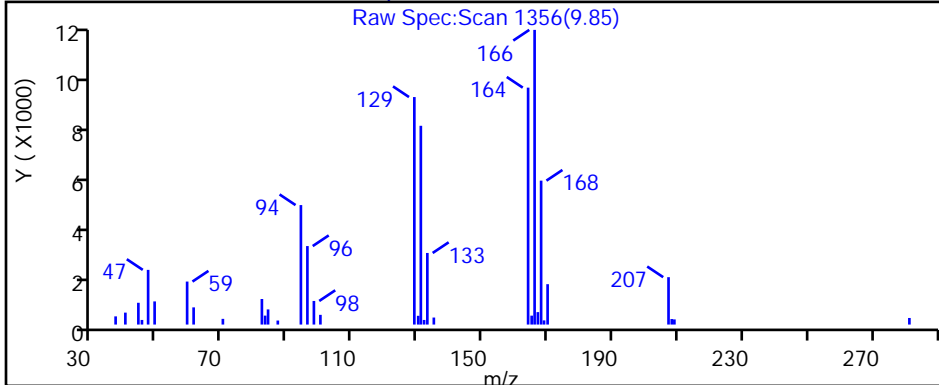
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

88 Tetrachloroethene, CAS: 127-18-4



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X16.D

Injection Date: 01-Jun-2023 02:20:30

Instrument ID: 10193

Lims ID: 410-127761-A-3

Lab Sample ID: 410-127761-3

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

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

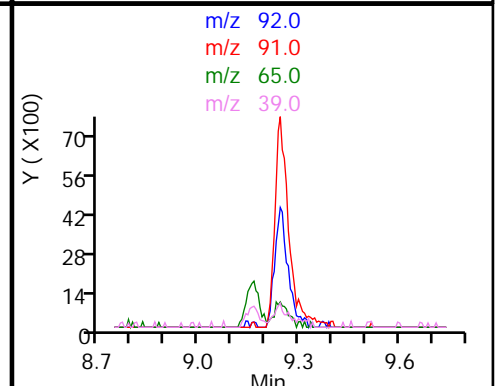
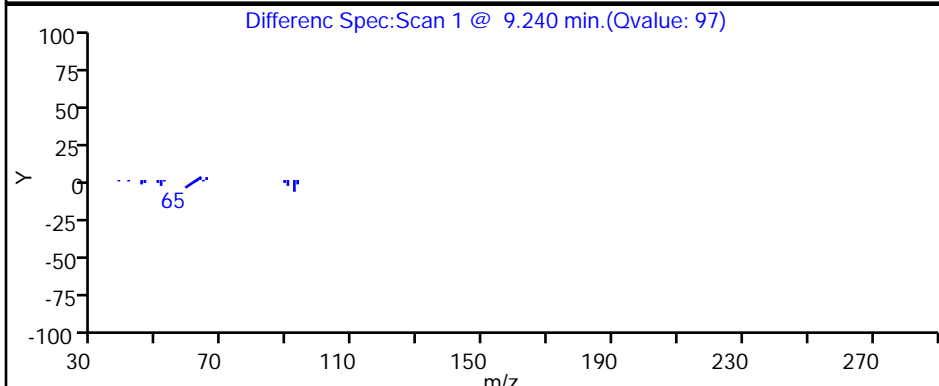
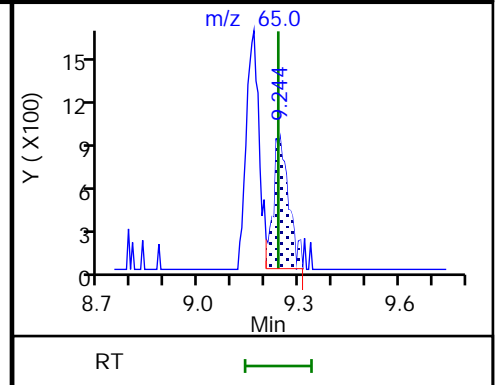
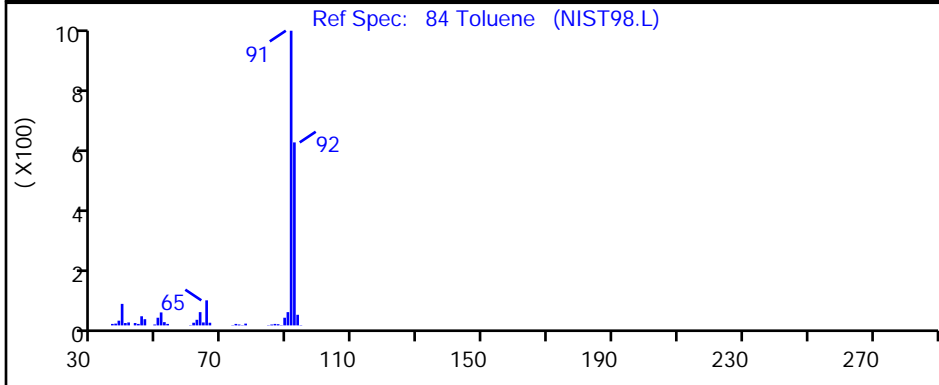
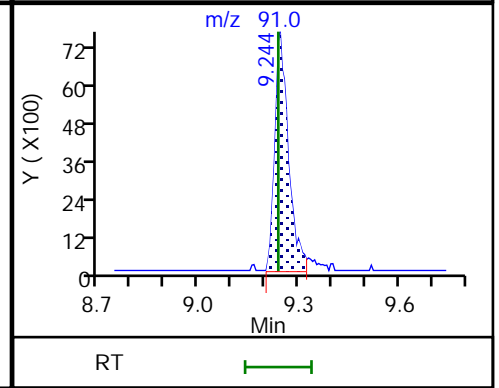
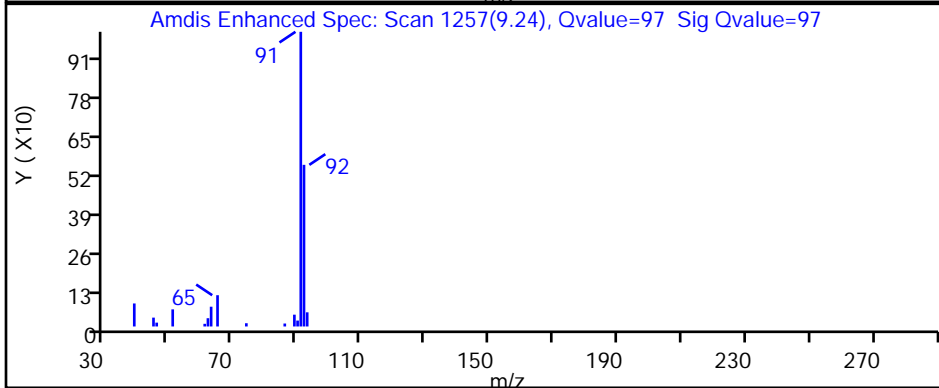
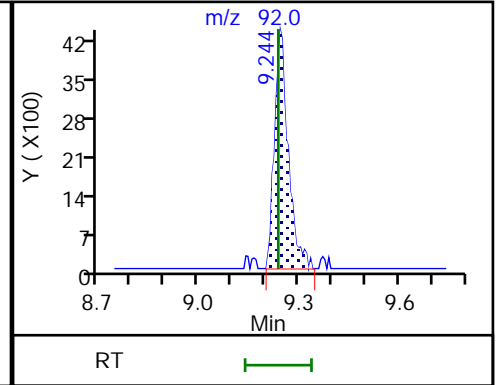
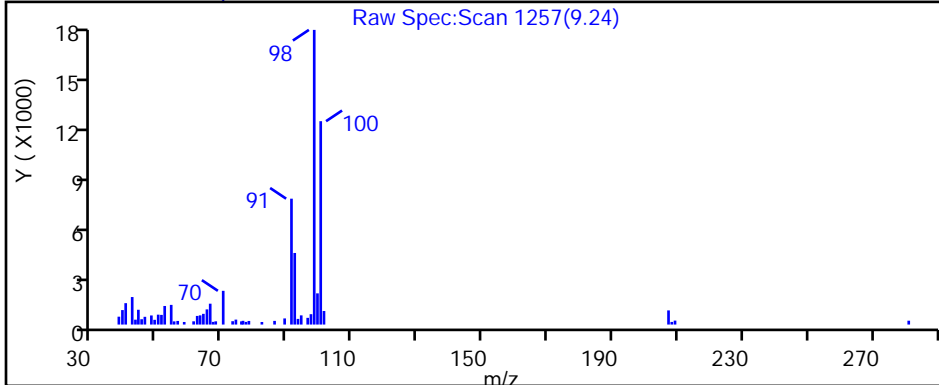
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

84 Toluene, CAS: 108-88-3



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X16.D

Injection Date: 01-Jun-2023 02:20:30

Instrument ID: 10193

Lims ID: 410-127761-A-3

Lab Sample ID: 410-127761-3

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

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

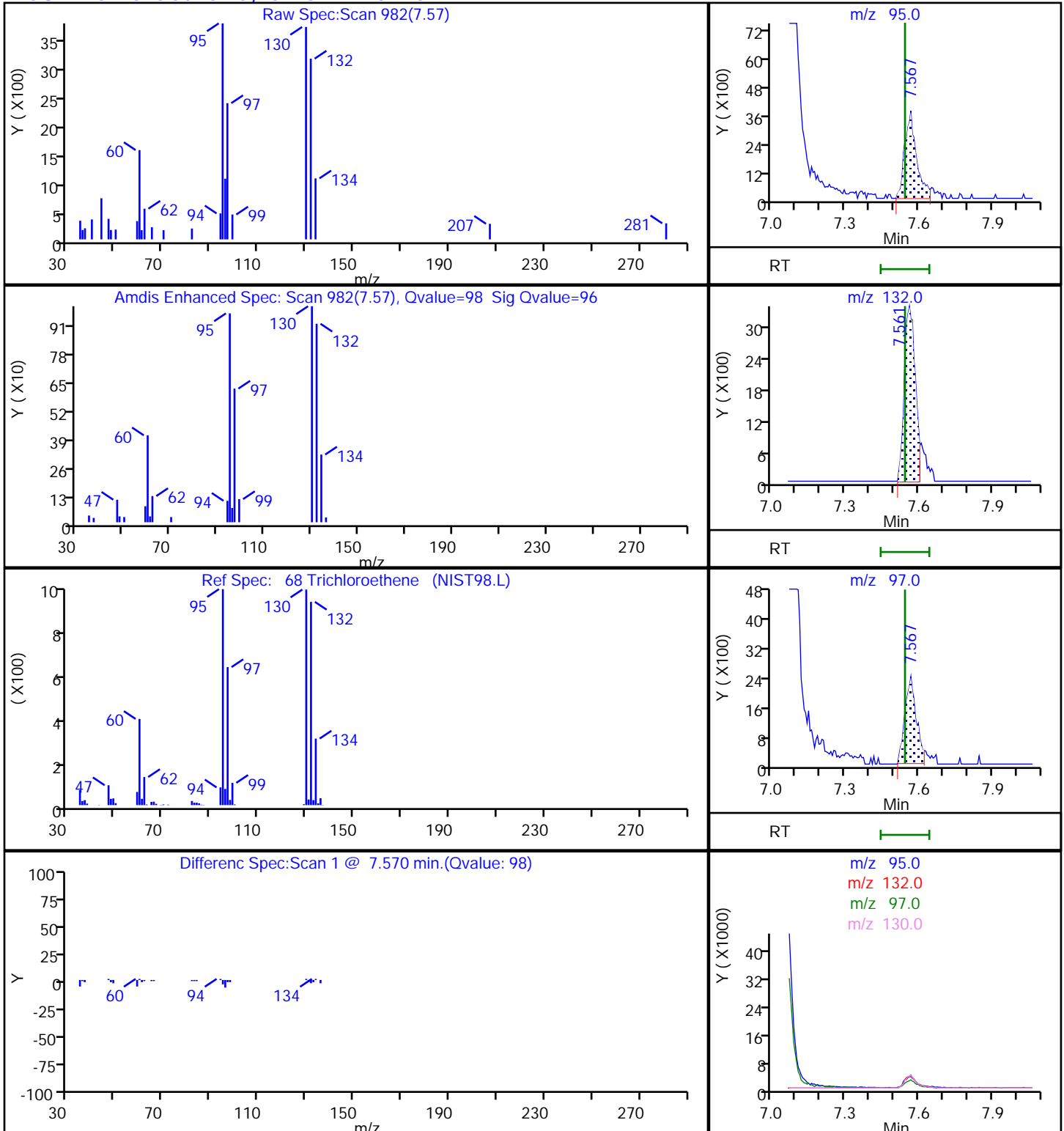
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

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.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-4

Matrix: Water

Lab File ID: CY31X17.D

Analysis Method: 8260D

Date Collected: 05/23/2023 12:55

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 02:42

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.: 381658

Units: ug/L

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	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	3.8	J	5.0	1.0
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	0.17	J	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	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	0.095	J	0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1
 Environment Testing, LLC

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0 Lab Sample ID: 410-127761-4

Matrix: Water Lab File ID: CY31X17.D

Analysis Method: 8260D Date Collected: 05/23/2023 12:55

Sample wt/vol: 25 (mL) Date Analyzed: 06/01/2023 02:42

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.: 381658 Units: ug/L

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	0.14	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)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	91		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\10193\20230531-85466.b\CY31X17.D
 Lims ID: 410-127761-A-4
 Client ID: HD-COD-SW-9-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 02:42:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-018
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 15:15:18 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp Date: 01-Jun-2023 15:15:33

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.873	1.879	-0.006	98	13793	0.1695	
6 Vinyl chloride	62		1.983				ND	7
9 Bromomethane	94		2.264				ND	7
10 Chloroethane	64		2.325				ND	
18 1,1-Dichloroethene	96		3.032				ND	7
20 Acetone	43	3.099	3.062	0.037	99	30003	3.85	
25 Carbon disulfide	76		3.276				ND	7
30 Methylene Chloride	84		3.580				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.653	3.641	0.012	97	163589	50.0	
34 Methyl tert-butyl ether	73		3.928				ND	7
35 trans-1,2-Dichloroethene	96		3.934				ND	
37 1,1-Dichloroethane	63		4.556				ND	
42 2-Butanone (MEK)	43		5.409				ND	7
43 cis-1,2-Dichloroethene	96	5.458	5.421	0.037	79	9946	0.1588	
48 Chlorobromomethane	128		5.757				ND	
50 Chloroform	83	5.934	5.921	0.013	92	7803	0.0752	
53 1,1,1-Trichloroethane	97		6.135				ND	7
\$ 54 Dibromofluoromethane (Surr)	113	6.153	6.141	0.012	94	438771	9.10	
56 Carbon tetrachloride	117		6.348				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.622	6.604	0.018	99	92256	9.70	
60 Benzene	78		6.629				ND	7
61 1,2-Dichloroethane	62		6.714				ND	7
* 65 Fluorobenzene (IS)	96	7.061	7.049	0.012	99	1852391	10.0	
68 Trichloroethene	95	7.561	7.543	0.018	94	8771	0.1397	a
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.244				ND	7
80 cis-1,3-Dichloropropene	75		8.817				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.024				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.159	9.152	0.007	93	1974643	10.5	
84 Toluene	92	9.244	9.238	0.006	96	13817	0.0952	
85 trans-1,3-Dichloropropene	75		9.543				ND	
87 1,1,2-Trichloroethane	97		9.762				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	9.854	9.841	0.013	97	10681	0.1559	
106 2-Hexanone	43		10.006				ND	7
108 Chlorodibromomethane	129		10.158				ND	
110 Ethylene Dibromide	107		10.268				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.737	10.738	-0.001	85	1575328	10.0	
113 Chlorobenzene	112		10.762				ND	
114 1,1,1,2-Tetrachloroethane	131		10.853				ND	
115 Ethylbenzene	91		10.859				ND	7
116 m-Xylene & p-Xylene	106		10.981				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.323				ND	
119 Styrene	104		11.341				ND	7
120 Bromoform	173		11.500				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.786	0.006	94	735284	9.14	
126 1,1,2,2-Tetrachloroethane	83		11.902				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.694	12.688	0.006	94	805211	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSV_HP25_ISSS_00070

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X17.D

Injection Date: 01-Jun-2023 02:42:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-127761-A-4

Lab Sample ID: 410-127761-4

Worklist Smp#: 18

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

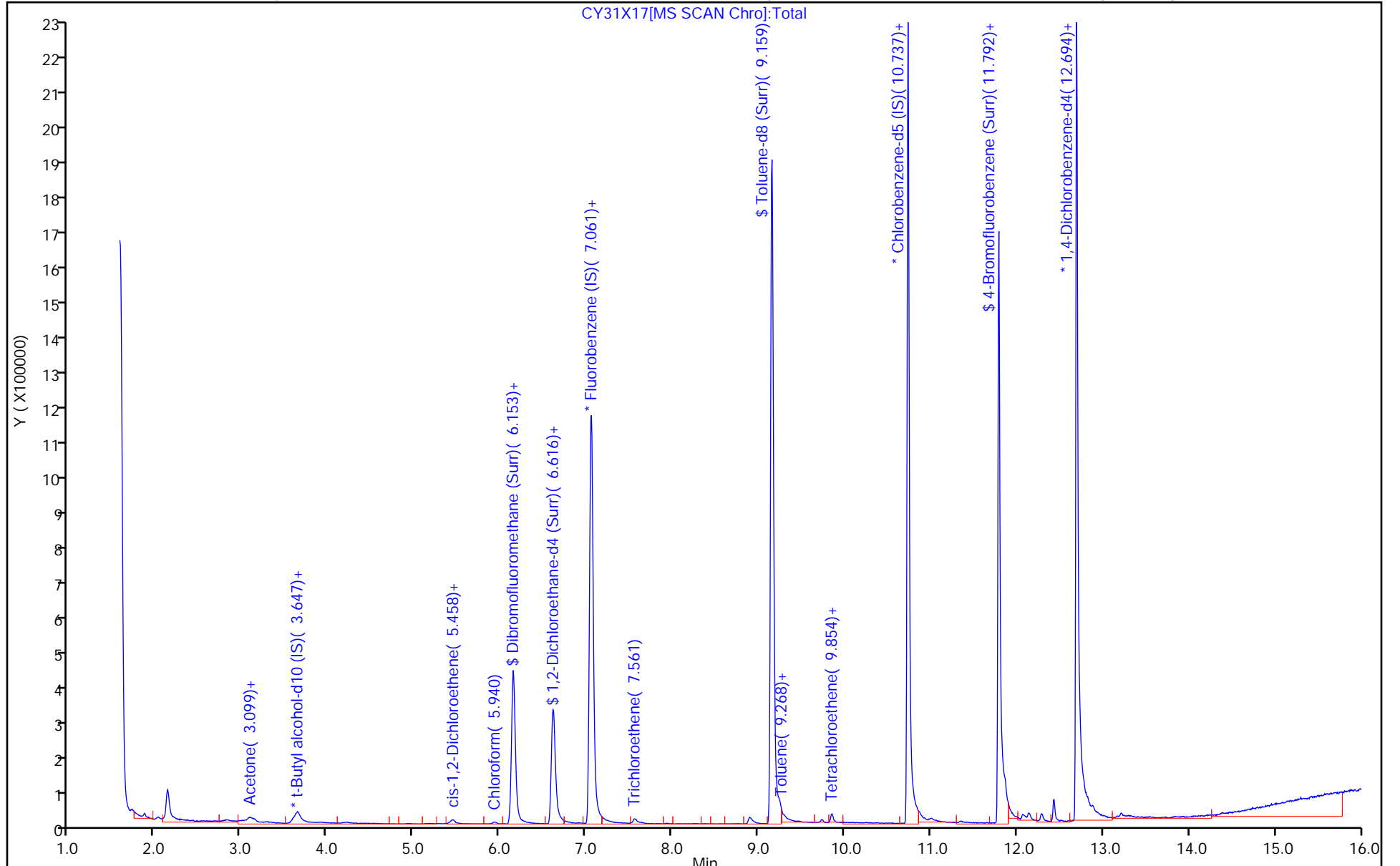
ALS Bottle#: 17

Method: MSV_10193_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\10193\20230531-85466.b\CY31X17.D
 Lims ID: 410-127761-A-4
 Client ID: HD-COD-SW-9-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 02:42:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-018
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 15:15:18 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp

Date: 01-Jun-2023 15:15:33

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.10	90.95
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.70	97.03
\$ 83 Toluene-d8 (Surr)	10.0	10.5	104.95
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.14	91.44

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X17.D

Injection Date: 01-Jun-2023 02:42:30

Instrument ID: 10193

Lims ID: 410-127761-A-4

Lab Sample ID: 410-127761-4

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

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

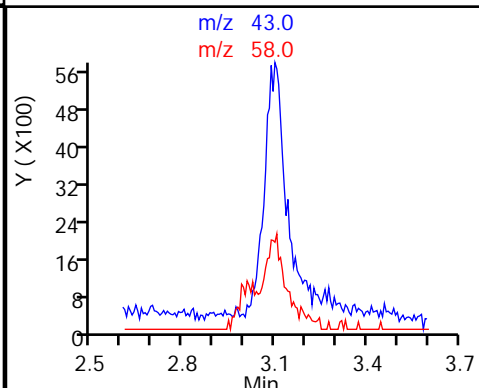
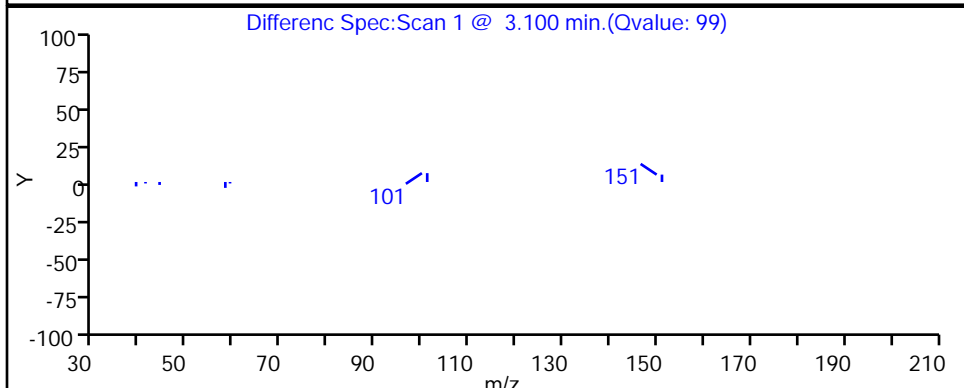
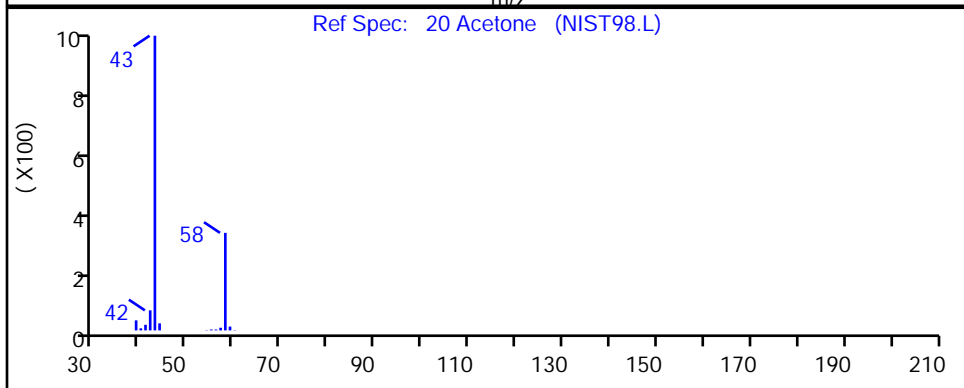
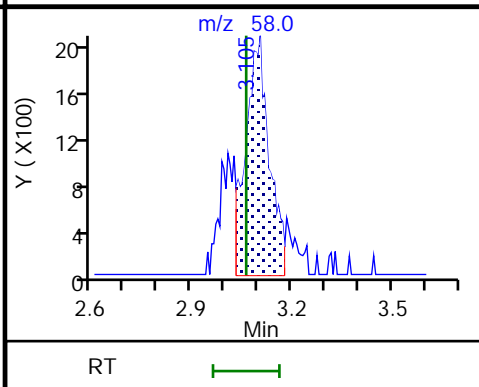
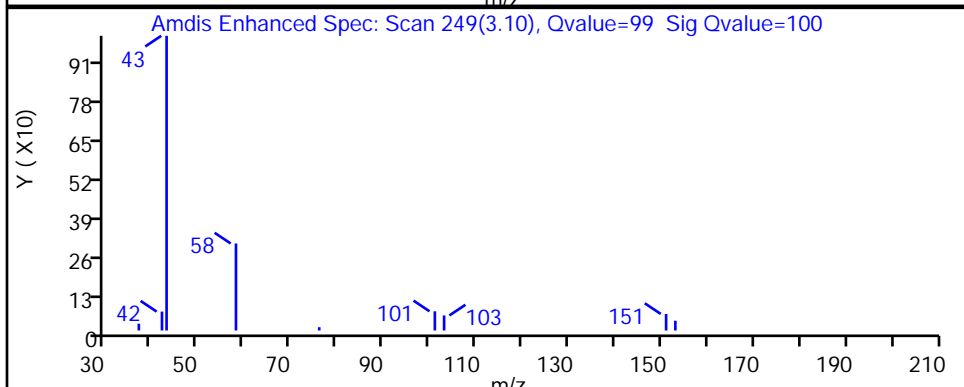
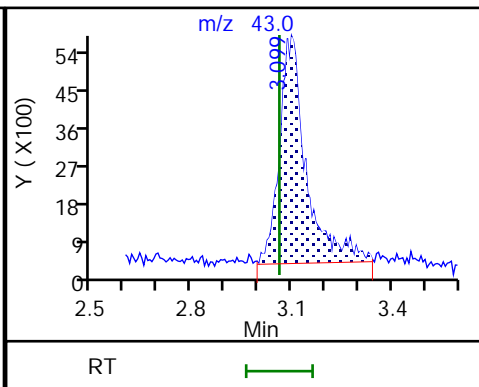
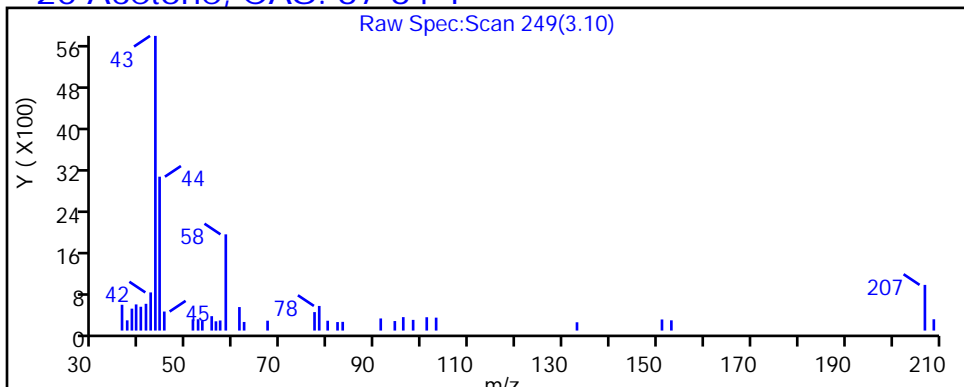
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

20 Acetone, CAS: 67-64-1



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X17.D

Injection Date: 01-Jun-2023 02:42:30

Instrument ID: 10193

Lims ID: 410-127761-A-4

Lab Sample ID: 410-127761-4

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

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

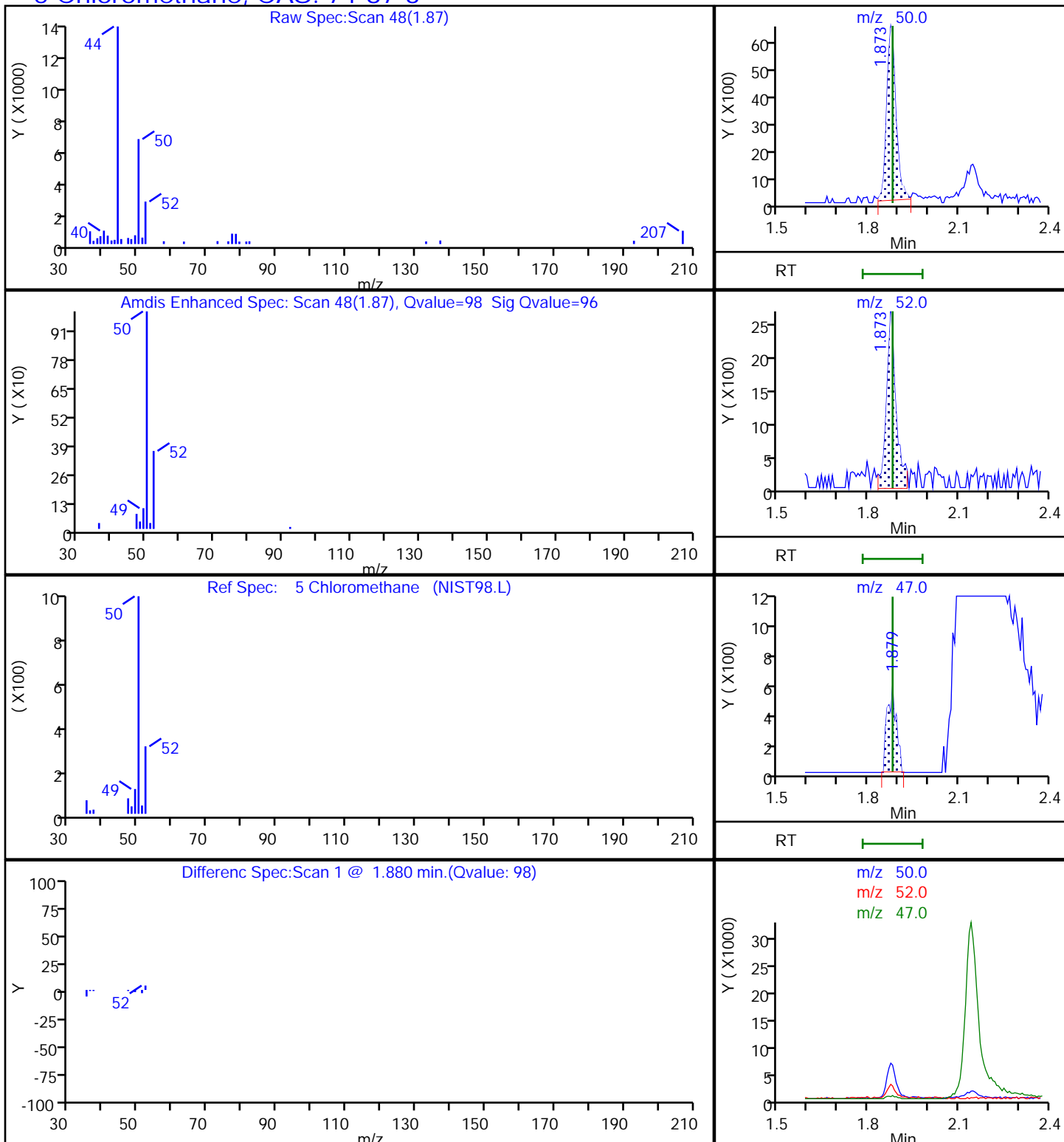
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

5 Chloromethane, CAS: 74-87-3



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X17.D

Injection Date: 01-Jun-2023 02:42:30

Instrument ID: 10193

Lims ID: 410-127761-A-4

Lab Sample ID: 410-127761-4

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

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

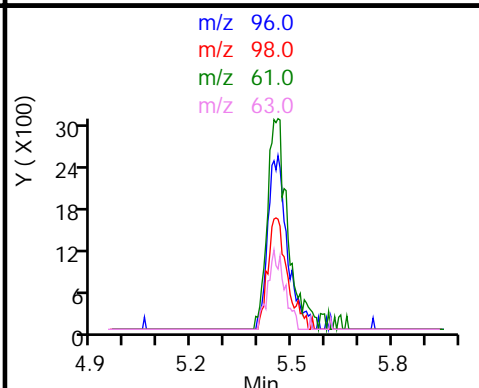
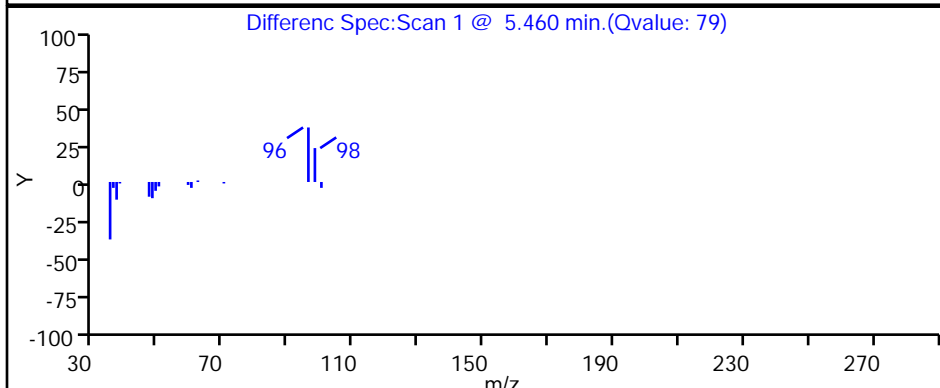
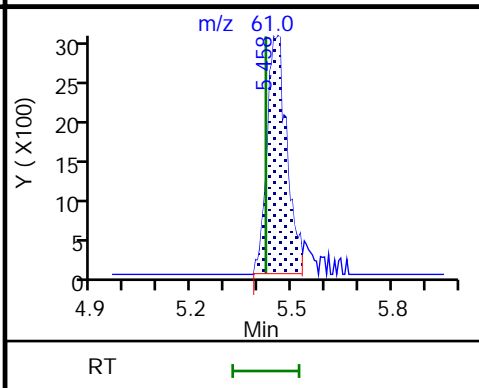
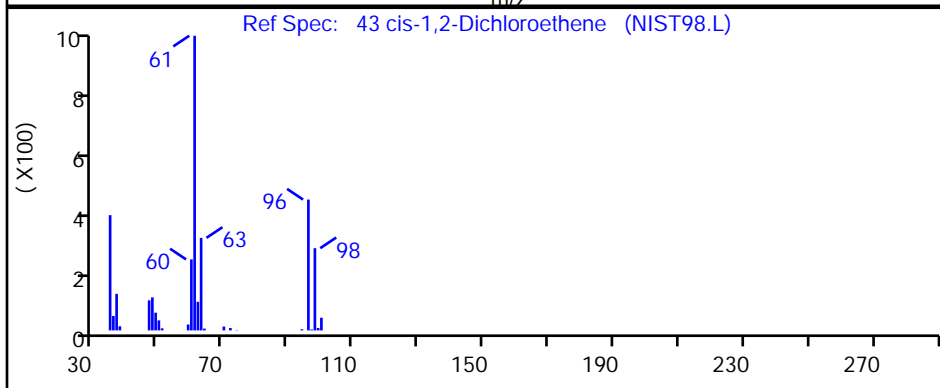
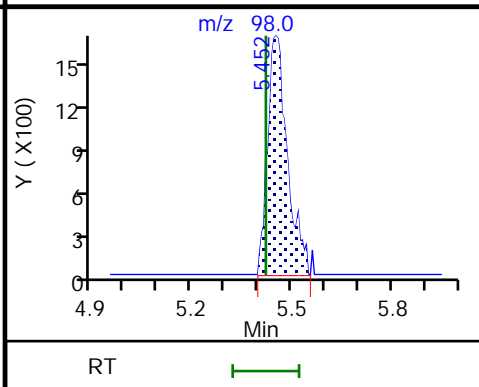
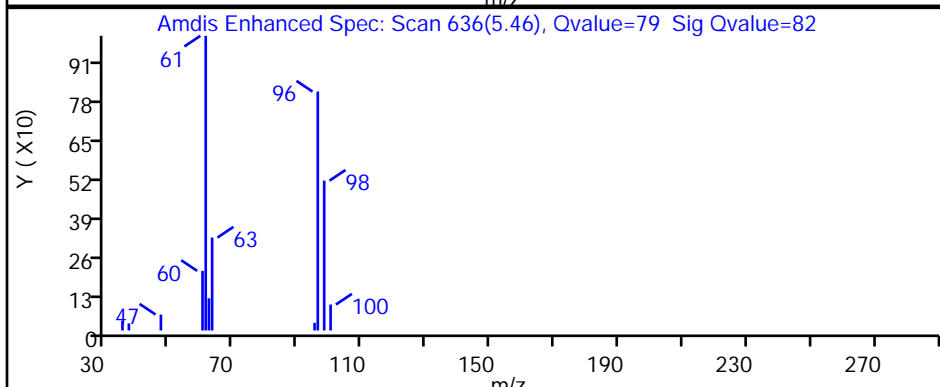
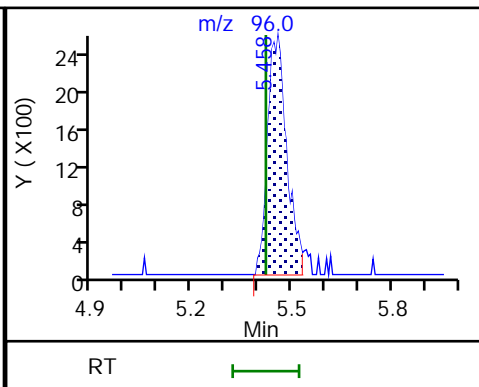
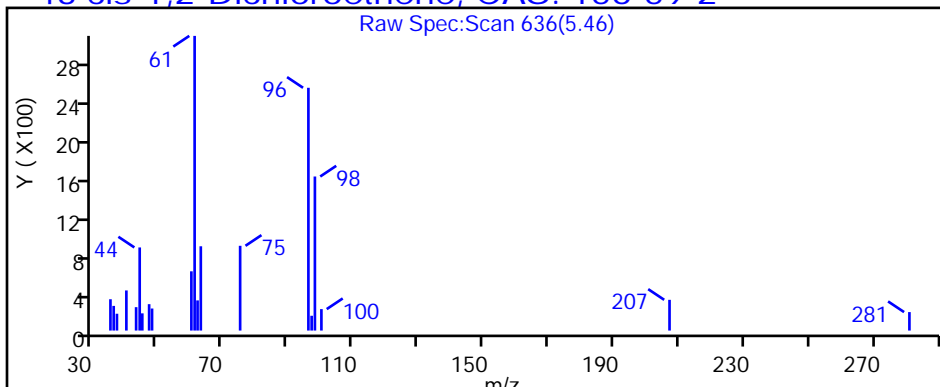
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X17.D

Injection Date: 01-Jun-2023 02:42:30

Instrument ID: 10193

Lims ID: 410-127761-A-4

Lab Sample ID: 410-127761-4

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

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

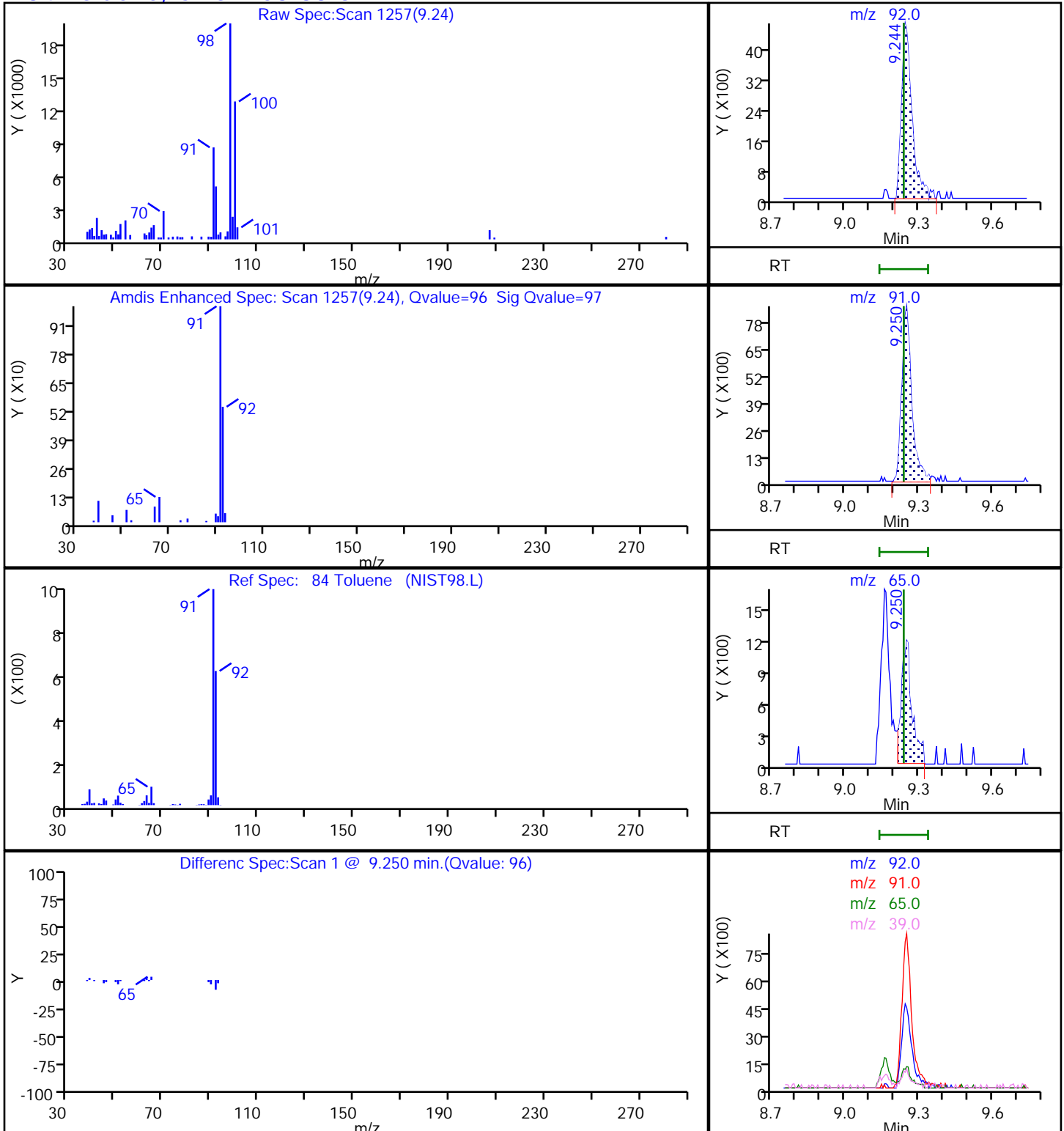
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

84 Toluene, CAS: 108-88-3



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X17.D

Injection Date: 01-Jun-2023 02:42:30

Instrument ID: 10193

Lims ID: 410-127761-A-4

Lab Sample ID: 410-127761-4

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

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

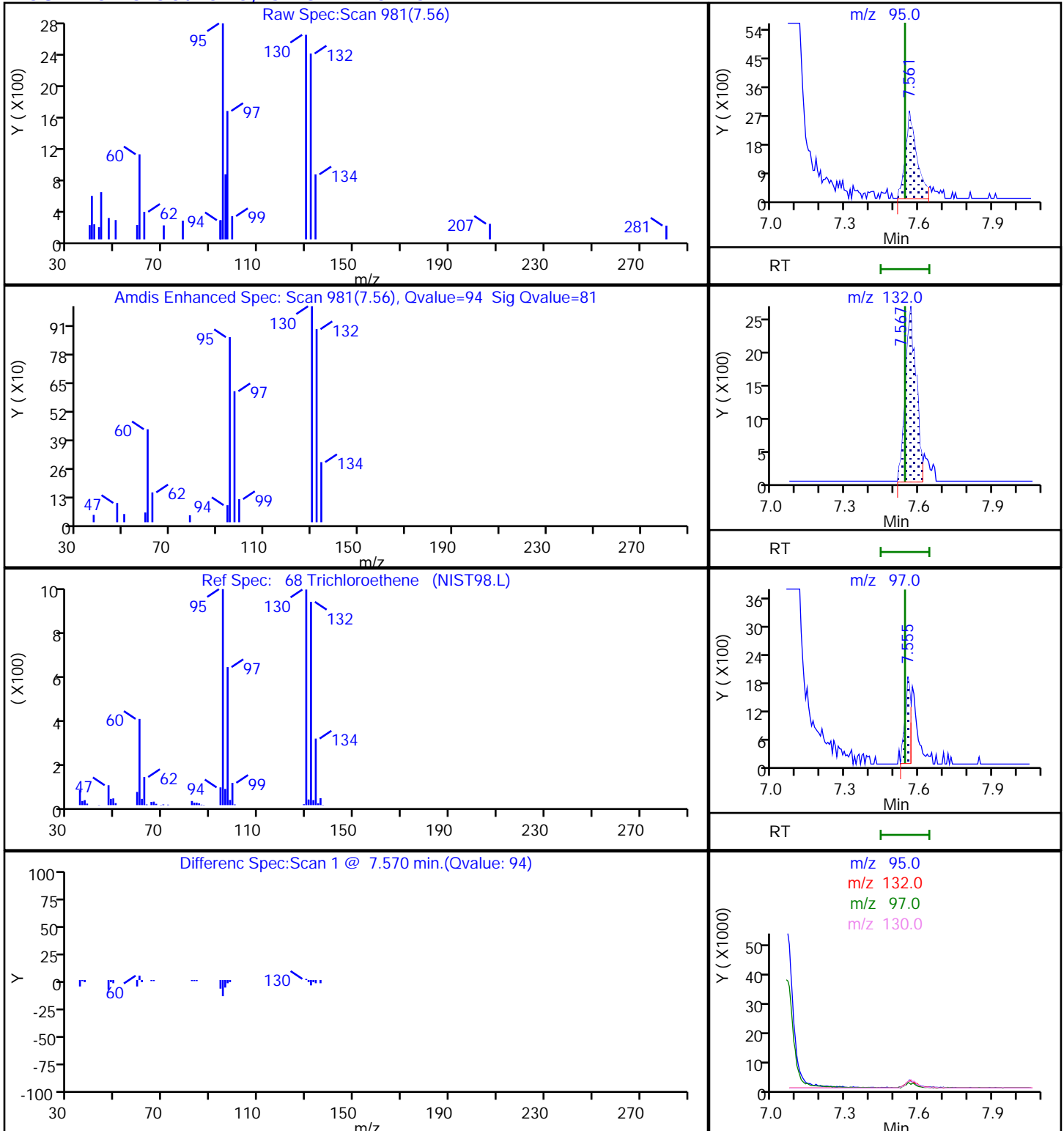
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

68 Trichloroethene, CAS: 79-01-6



Eurofins Lancaster Laboratories Environment Testing, LLC

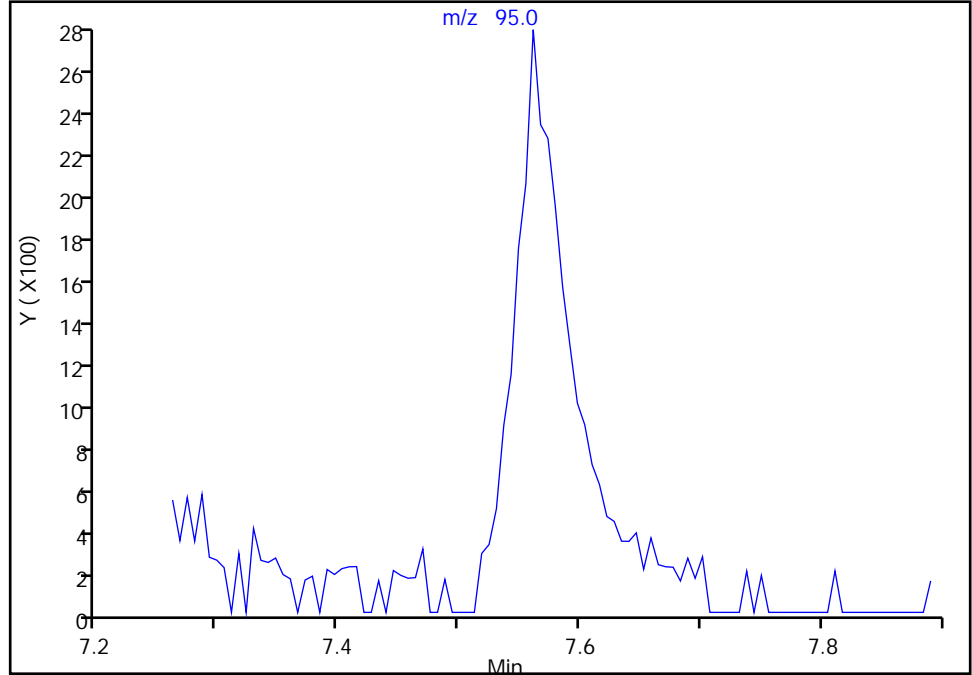
Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X17.D
Injection Date: 01-Jun-2023 02:42:30 Instrument ID: 10193
Lims ID: 410-127761-A-4 Lab Sample ID: 410-127761-4
Client ID: HD-COD-SW-9-0/1-0
Operator ID: gaw91131 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_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

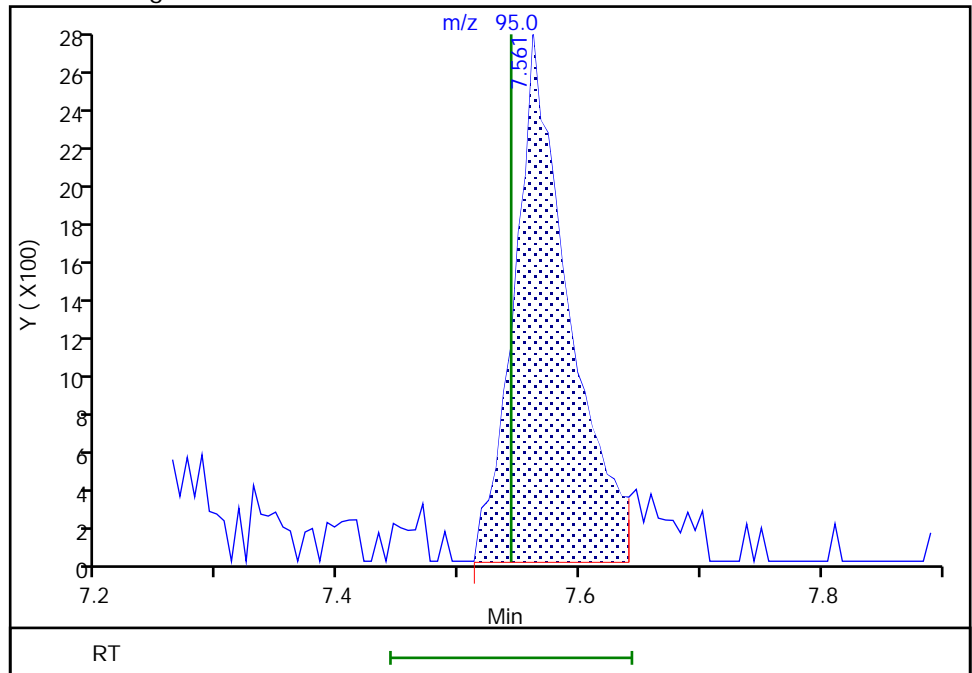
Not Detected
Expected RT: 7.54

Processing Integration Results



Manual Integration Results

RT: 7.56
Area: 8771
Amount: 0.139719
Amount Units: ug/l



Reviewer: kaewrungrueangp, 01-Jun-2023 15:15:17 07:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-5

Matrix: Water

Lab File ID: CY31X18.D

Analysis Method: 8260D

Date Collected: 05/23/2023 09:45

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 03:04

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.: 381658

Units: ug/L

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	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	3.0	J	5.0	1.0
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	0.14	J	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.22	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	1.1		0.50	0.20
108-88-3	Toluene	0.085	J	0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-5

Matrix: Water

Lab File ID: CY31X18.D

Analysis Method: 8260D

Date Collected: 05/23/2023 09:45

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 03:04

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.: 381658

Units: ug/L

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	0.19	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)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	91		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\10193\20230531-85466.b\CY31X18.D
 Lims ID: 410-127761-A-5
 Client ID: HD-COD-SW-13-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 03:04:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-019
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 15:15:18 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp Date: 01-Jun-2023 15:16:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.867	1.879	-0.012	98	11480	0.1381	
6 Vinyl chloride	62		1.983				ND	7
9 Bromomethane	94		2.264				ND	
10 Chloroethane	64		2.325				ND	
18 1,1-Dichloroethene	96		3.032				ND	7
20 Acetone	43	3.099	3.062	0.037	97	26852	3.03	
25 Carbon disulfide	76		3.276				ND	7
30 Methylene Chloride	84		3.580				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.653	3.641	0.012	97	185979	50.0	
34 Methyl tert-butyl ether	73		3.928				ND	7
35 trans-1,2-Dichloroethene	96		3.934				ND	
37 1,1-Dichloroethane	63		4.556				ND	7
42 2-Butanone (MEK)	43		5.409				ND	
43 cis-1,2-Dichloroethene	96	5.446	5.421	0.025	78	14334	0.2241	
48 Chlorobromomethane	128		5.757				ND	
50 Chloroform	83	5.940	5.921	0.019	93	7288	0.0688	
53 1,1,1-Trichloroethane	97	6.147	6.135	0.012	35	6348	0.0680	
\$ 54 Dibromofluoromethane (Surr)	113	6.153	6.141	0.012	94	445903	9.05	
56 Carbon tetrachloride	117		6.348				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.604	0.012	99	95114	9.80	
60 Benzene	78		6.629				ND	7
61 1,2-Dichloroethane	62		6.714				ND	
* 65 Fluorobenzene (IS)	96	7.061	7.049	0.012	99	1891540	10.0	
68 Trichloroethene	95	7.561	7.543	0.018	94	12146	0.1895	
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.244				ND	7
80 cis-1,3-Dichloropropene	75		8.817				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.024				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.158	9.152	0.006	93	2004644	10.4	
84 Toluene	92	9.244	9.238	0.006	99	12562	0.0849	
85 trans-1,3-Dichloropropene	75		9.543				ND	
87 1,1,2-Trichloroethane	97		9.762				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	9.847	9.841	0.006	97	78295	1.12	
106 2-Hexanone	43		10.006				ND	7
108 Chlorodibromomethane	129		10.158				ND	
110 Ethylene Dibromide	107		10.268				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.737	10.738	-0.001	85	1607359	10.0	
113 Chlorobenzene	112		10.762				ND	
114 1,1,1,2-Tetrachloroethane	131		10.853				ND	
115 Ethylbenzene	91		10.859				ND	7
116 m-Xylene & p-Xylene	106		10.981				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.323				ND	7
119 Styrene	104		11.341				ND	7
120 Bromoform	173		11.500				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.786	0.006	93	743184	9.06	
126 1,1,2,2-Tetrachloroethane	83		11.902				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.694	12.688	0.006	94	910698	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP25_ISSS_00070

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X18.D

Injection Date: 01-Jun-2023 03:04:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-127761-A-5

Lab Sample ID: 410-127761-5

Worklist Smp#: 19

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

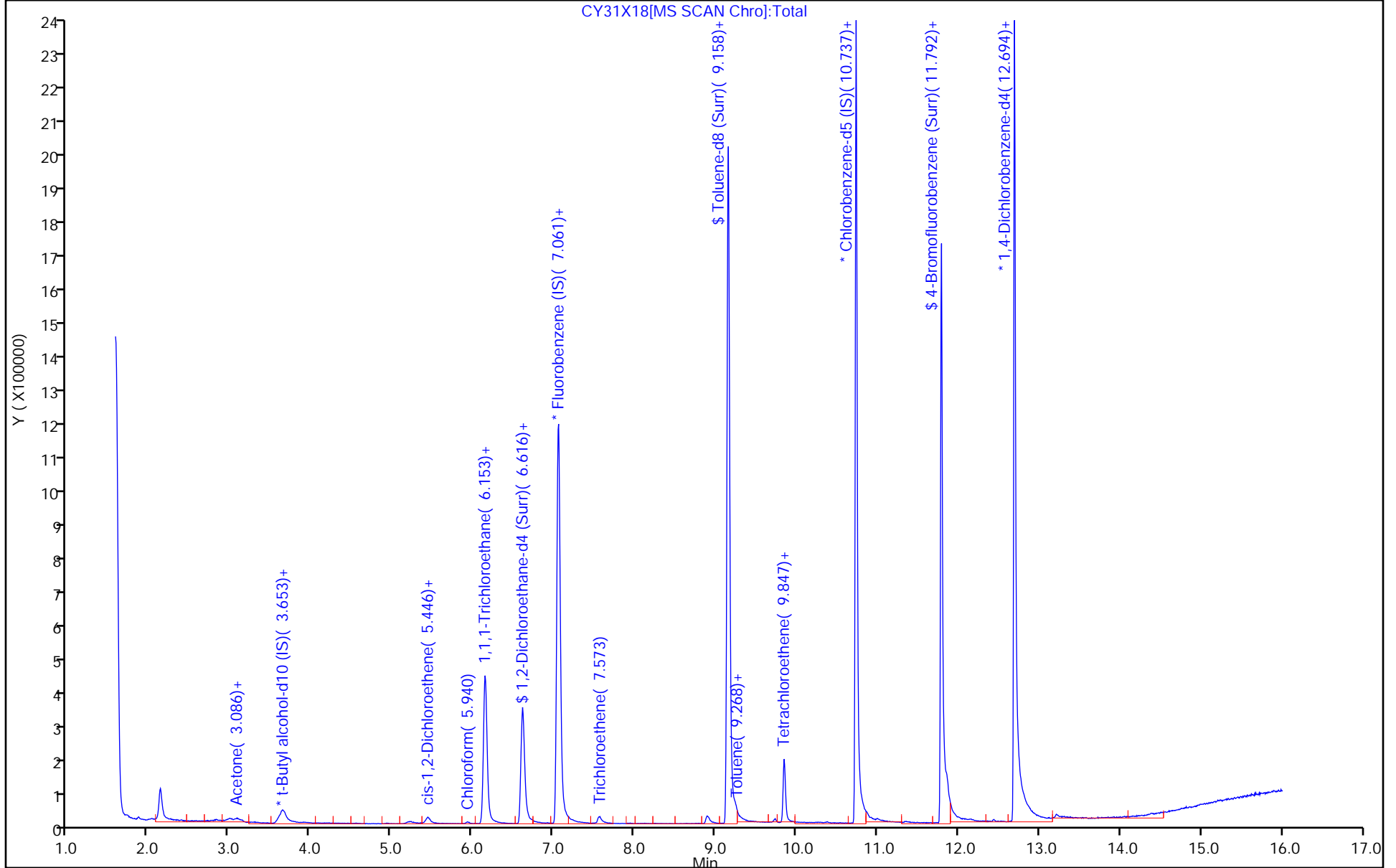
ALS Bottle#: 18

Method: MSV_10193_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\10193\20230531-85466.b\CY31X18.D
 Lims ID: 410-127761-A-5
 Client ID: HD-COD-SW-13-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 03:04:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-019
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 15:15:18 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp Date: 01-Jun-2023 15:16:11

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.05	90.52
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.80	97.97
\$ 83 Toluene-d8 (Surr)	10.0	10.4	104.42
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.06	90.58

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X18.D

Injection Date: 01-Jun-2023 03:04:30

Instrument ID: 10193

Lims ID: 410-127761-A-5

Lab Sample ID: 410-127761-5

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

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

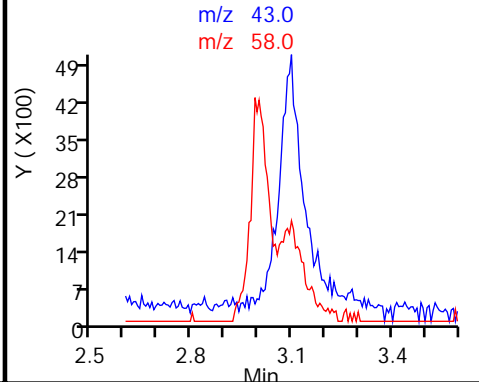
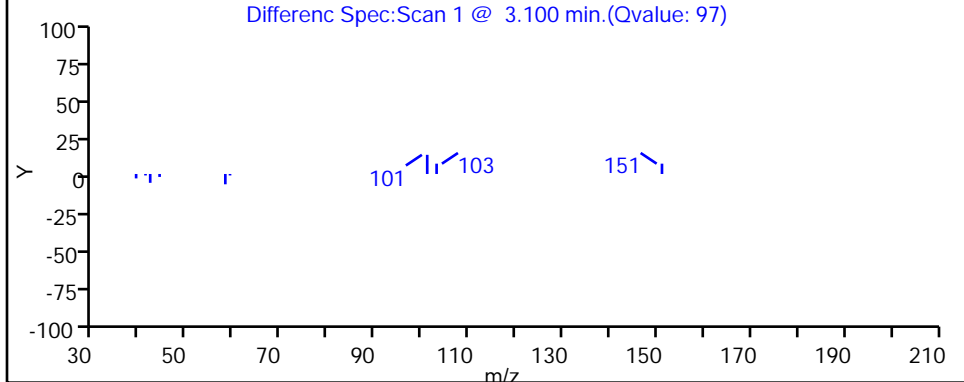
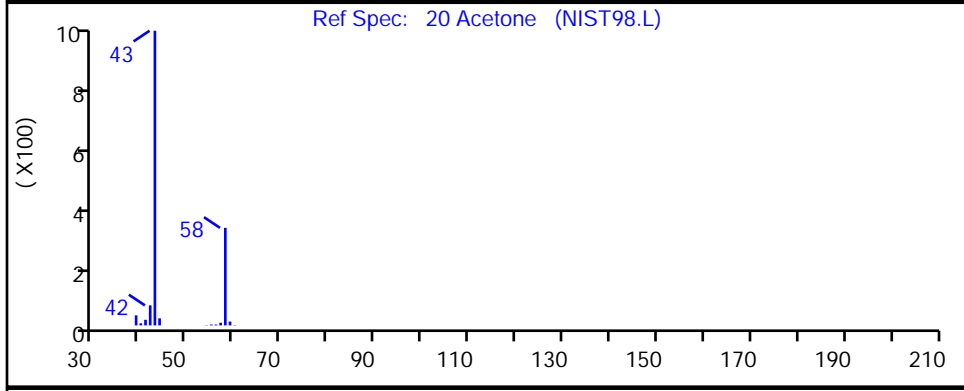
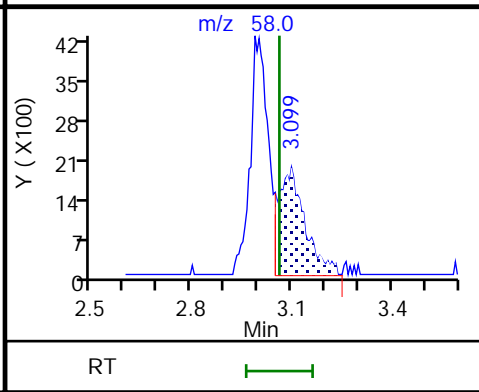
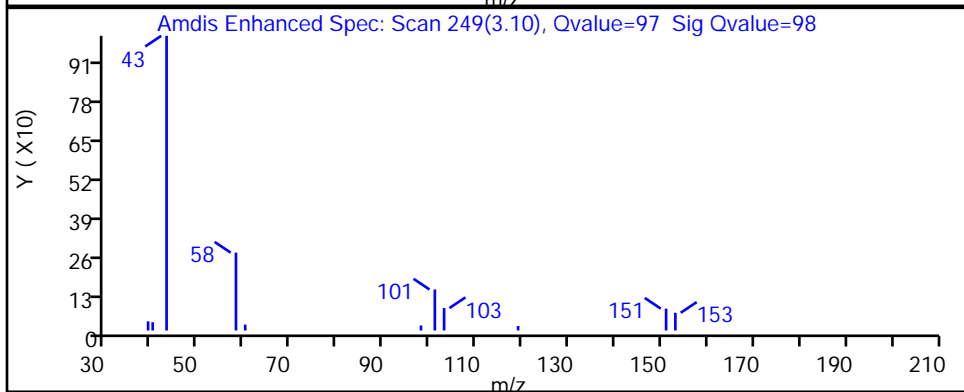
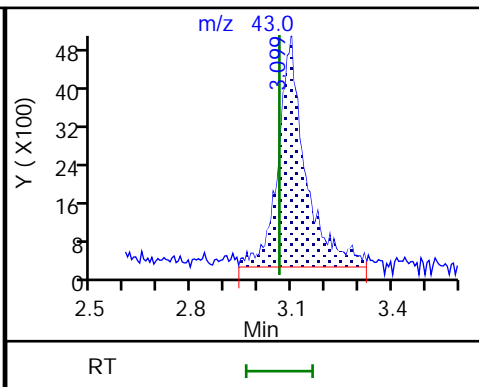
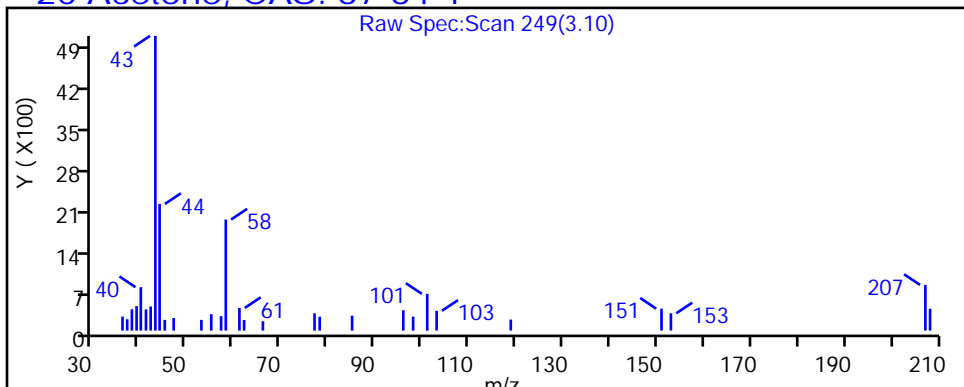
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

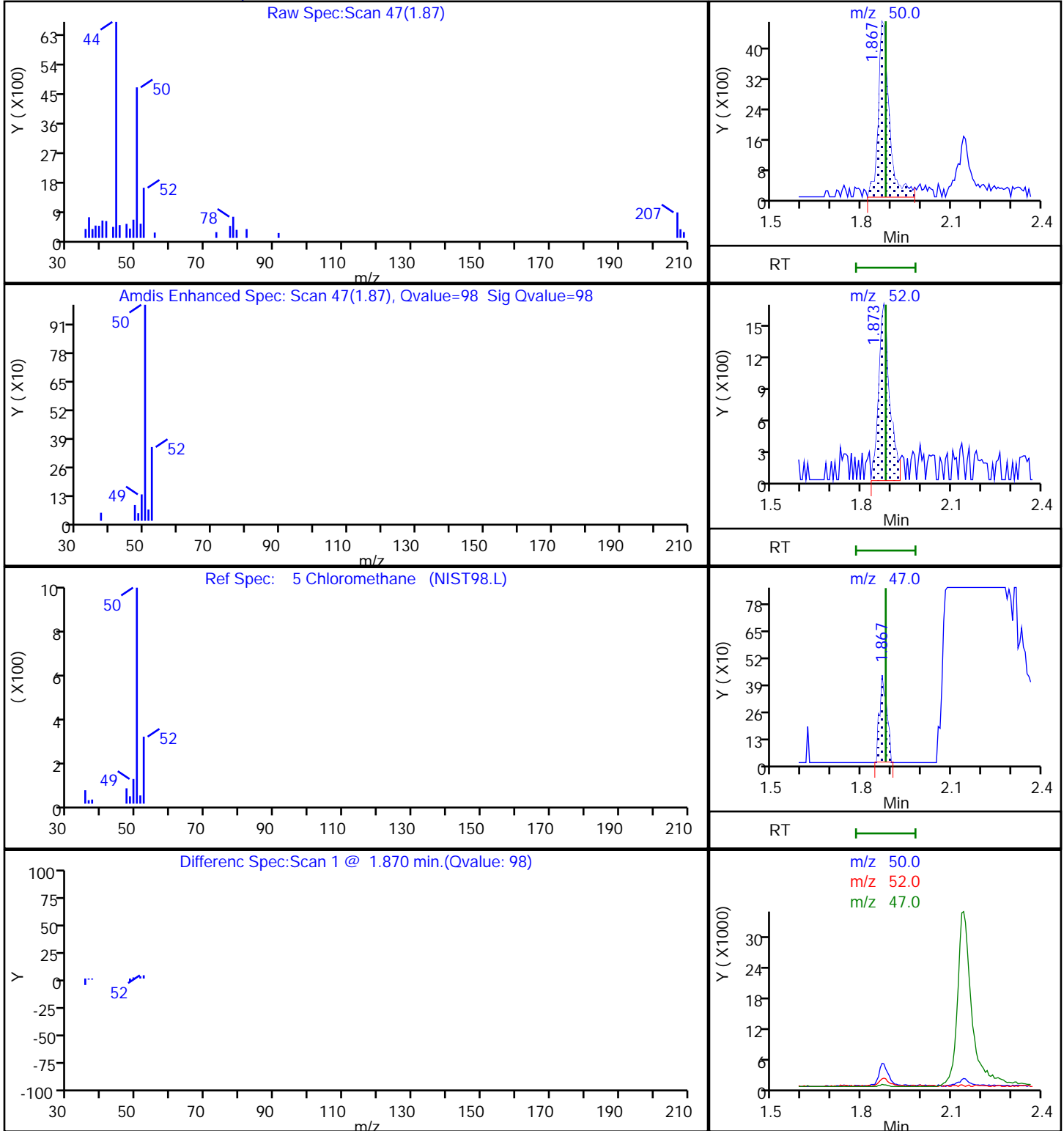
MS Quad

20 Acetone, CAS: 67-64-1



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X18.D
Injection Date: 01-Jun-2023 03:04:30 Instrument ID: 10193
Lims ID: 410-127761-A-5 Lab Sample ID: 410-127761-5
Client ID: HD-COD-SW-13-0/1-0
Operator ID: gaw91131 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

5 Chloromethane, CAS: 74-87-3



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X18.D

Injection Date: 01-Jun-2023 03:04:30

Instrument ID: 10193

Lims ID: 410-127761-A-5

Lab Sample ID: 410-127761-5

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

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

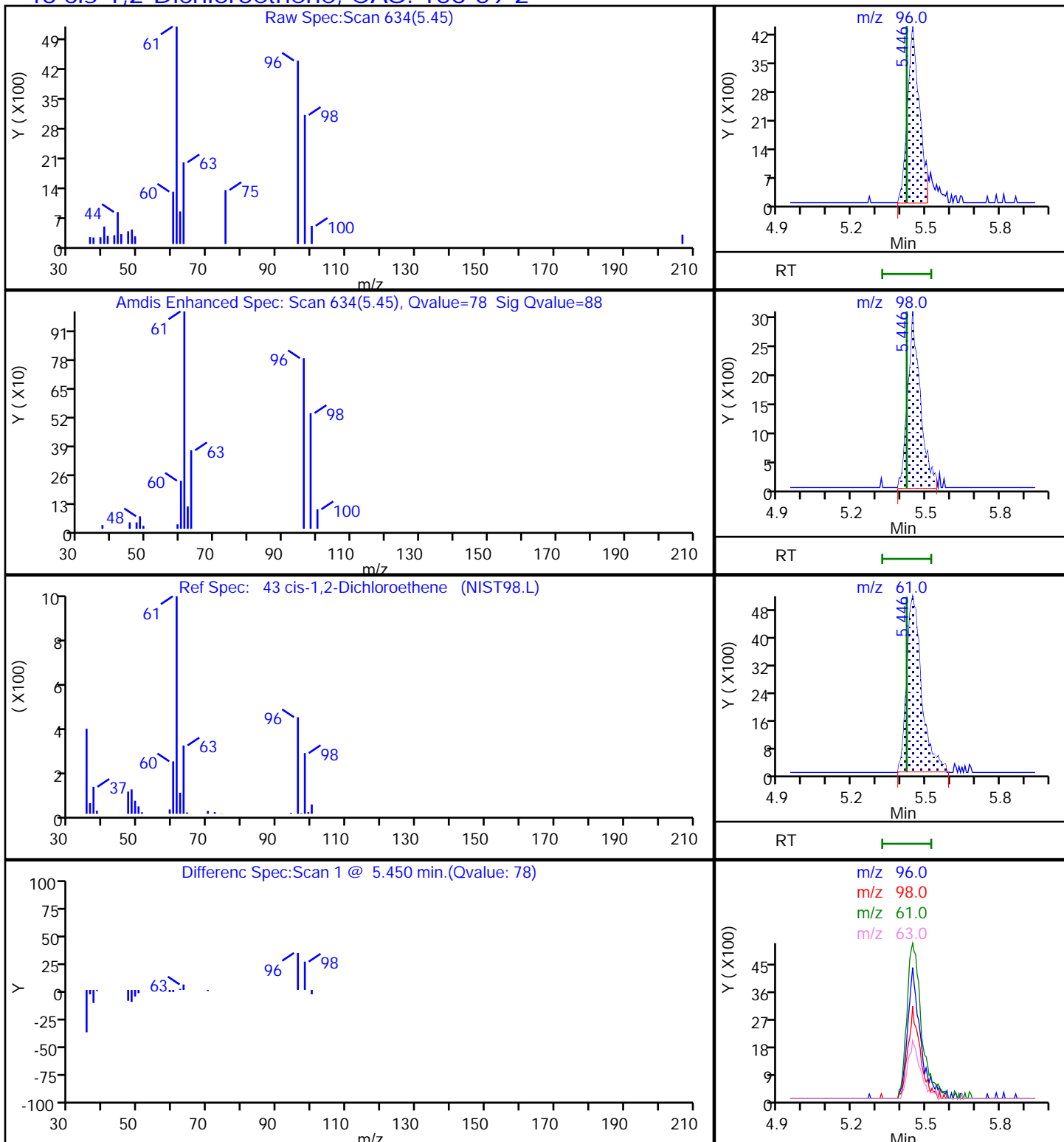
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X18.D

Injection Date: 01-Jun-2023 03:04:30

Instrument ID: 10193

Lims ID: 410-127761-A-5

Lab Sample ID: 410-127761-5

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

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

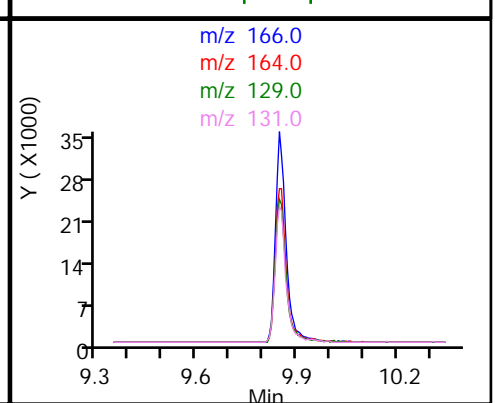
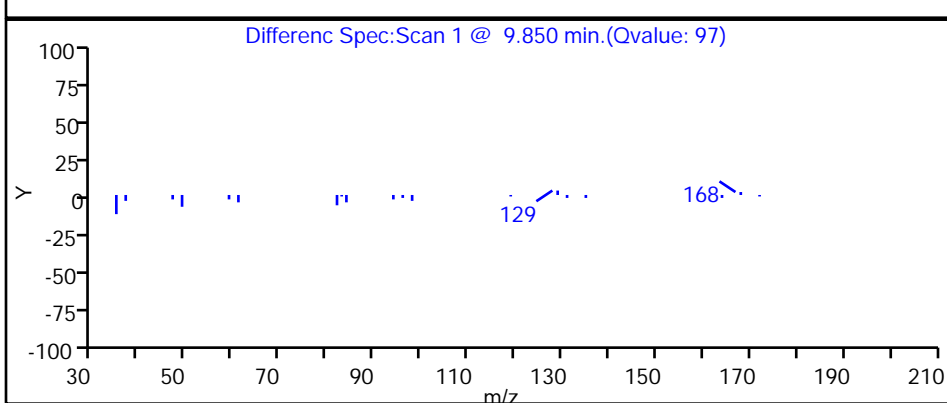
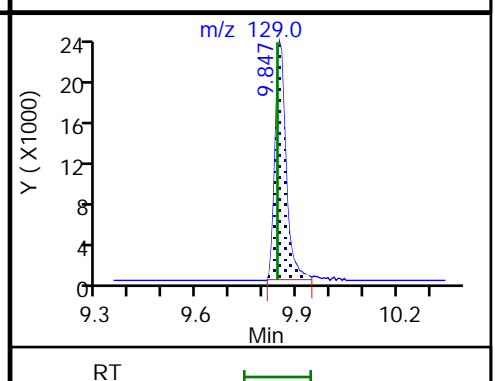
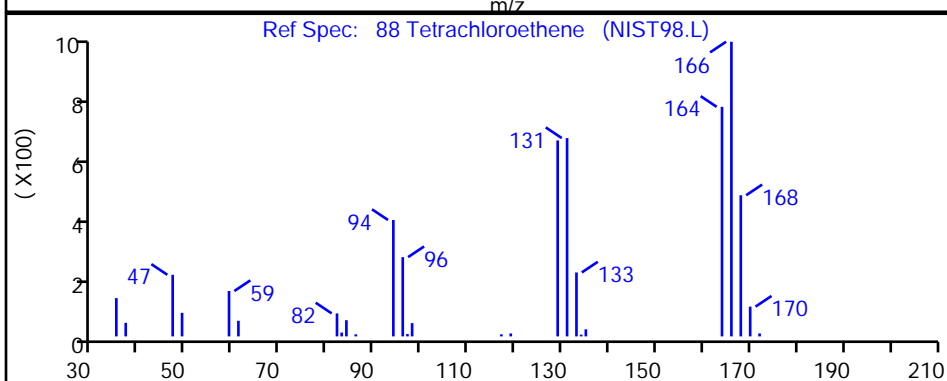
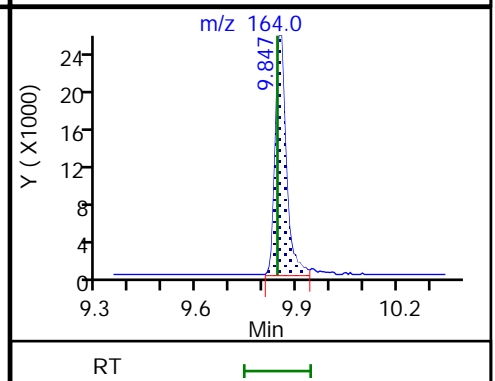
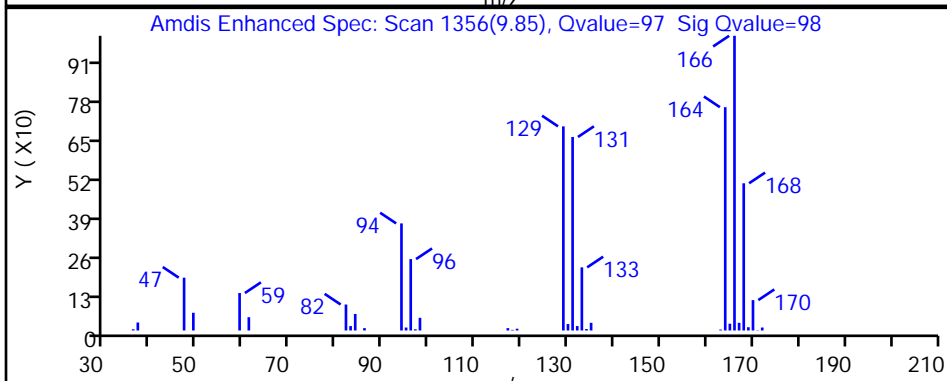
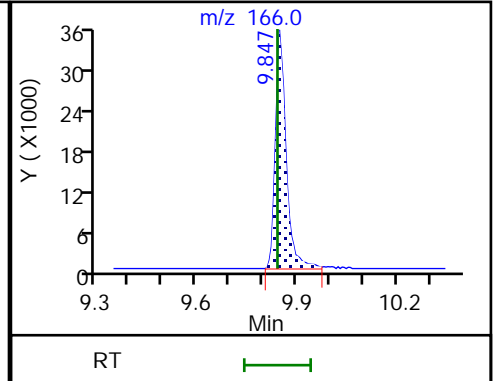
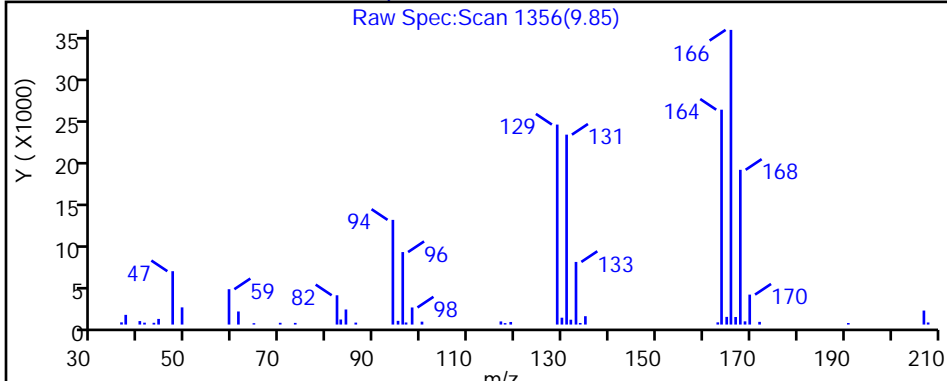
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

88 Tetrachloroethene, CAS: 127-18-4



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X18.D

Injection Date: 01-Jun-2023 03:04:30

Instrument ID: 10193

Lims ID: 410-127761-A-5

Lab Sample ID: 410-127761-5

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

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

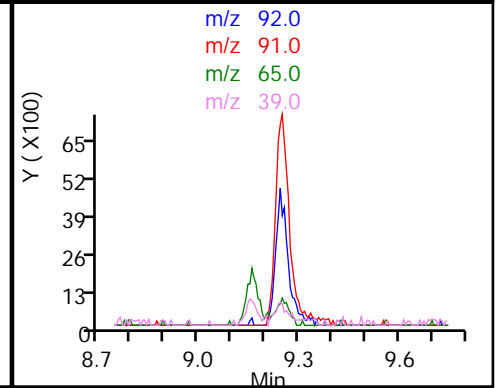
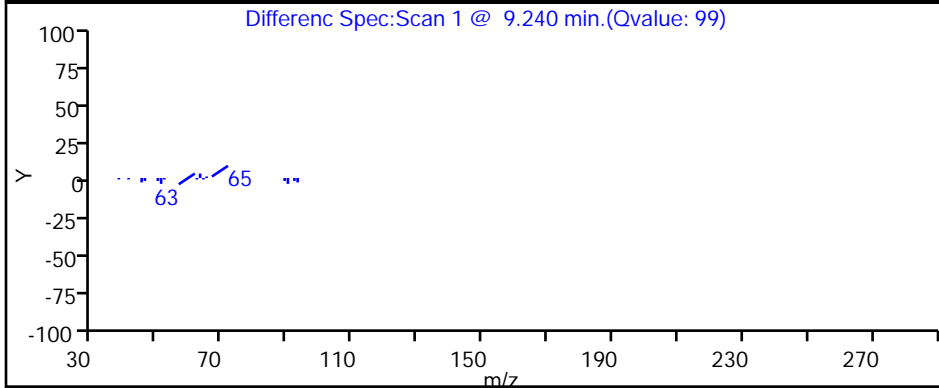
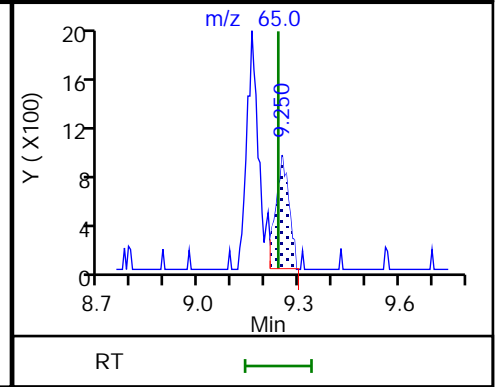
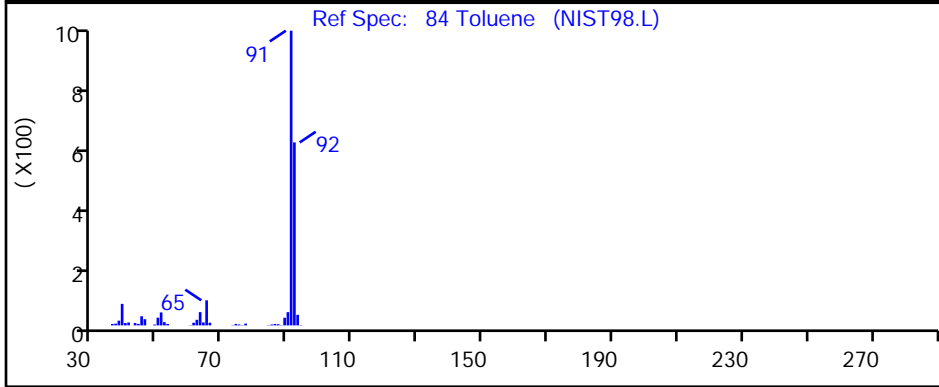
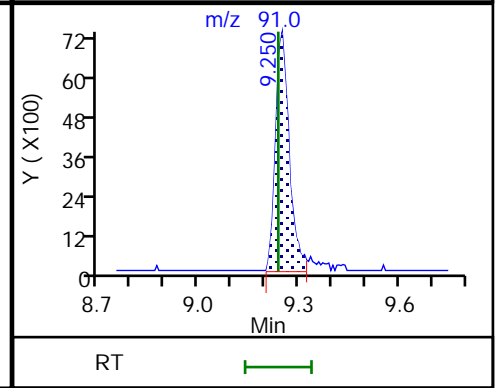
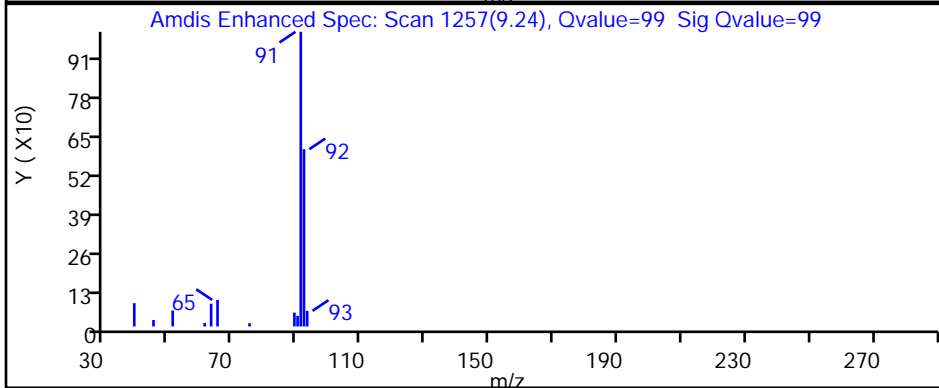
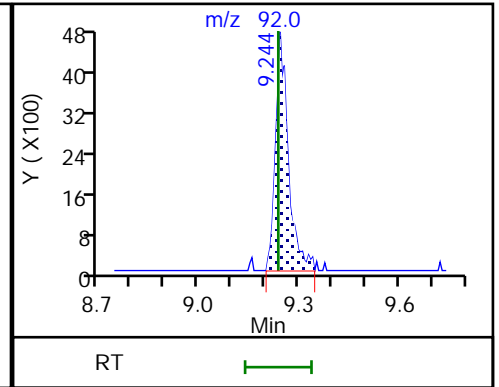
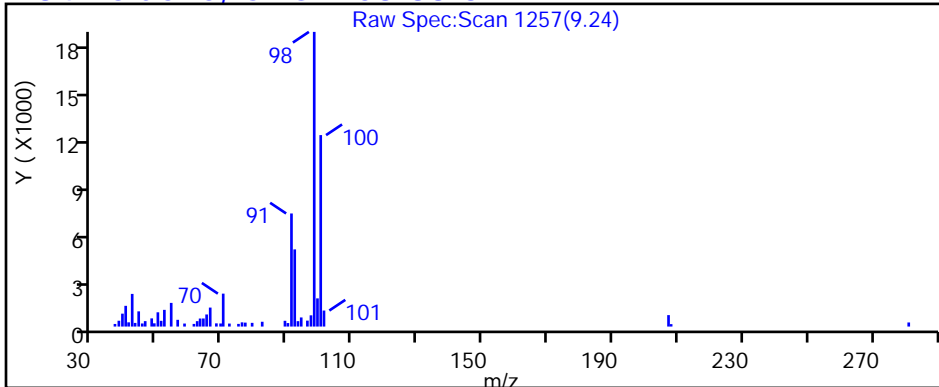
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

84 Toluene, CAS: 108-88-3



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X18.D

Injection Date: 01-Jun-2023 03:04:30

Instrument ID: 10193

Lims ID: 410-127761-A-5

Lab Sample ID: 410-127761-5

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

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

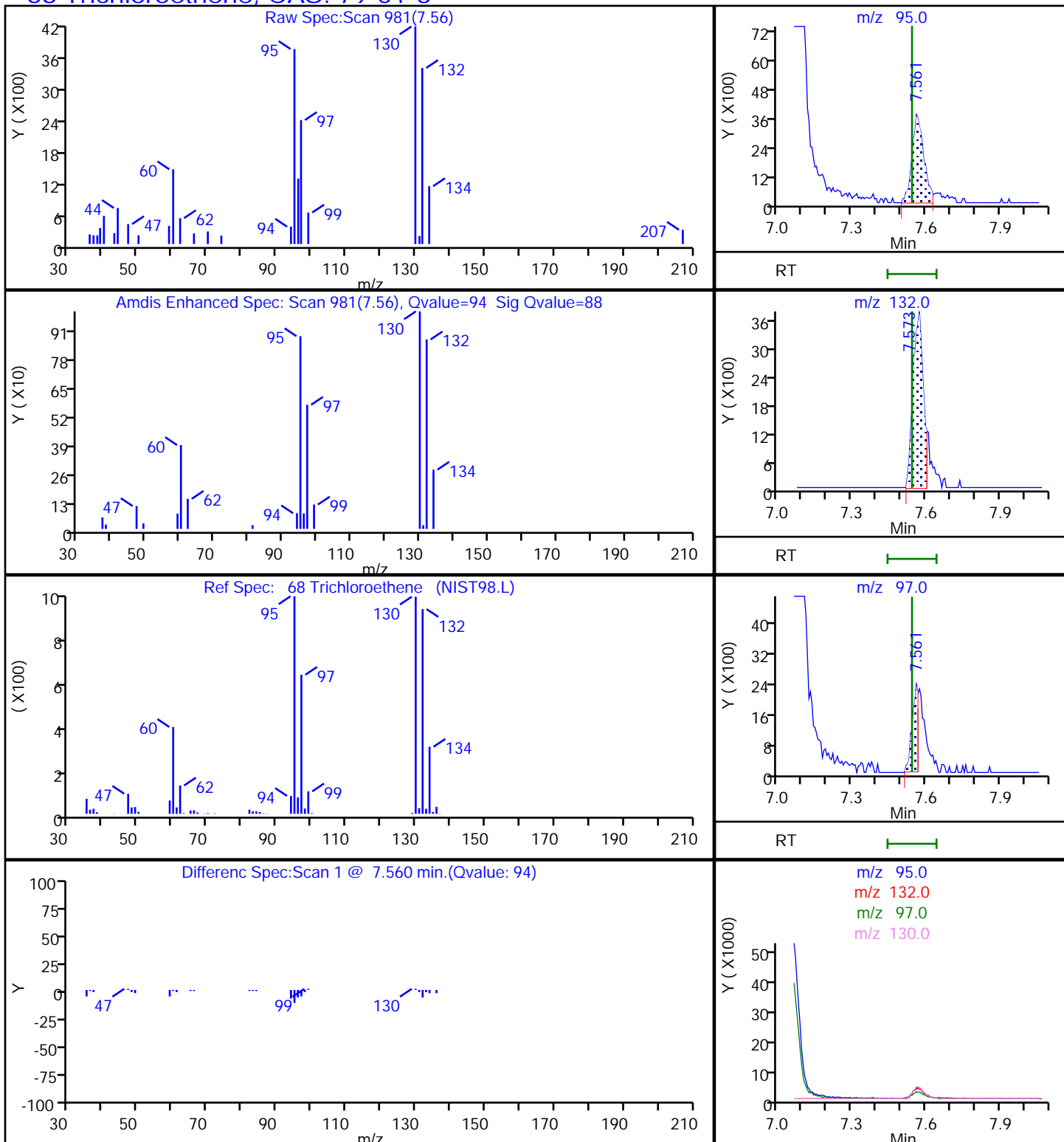
Method: MSV_10193_25mL

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.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-6

Matrix: Water

Lab File ID: CY31X07.D

Analysis Method: 8260D

Date Collected: 05/23/2023 11:38

Sample wt/vol: 25 (mL)

Date Analyzed: 05/31/2023 22:59

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.: 381658

Units: ug/L

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	0.22	J	0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	0.16	J	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.4	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.24	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.94		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	FH	0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	4.3	FH	0.50	0.20
108-88-3	Toluene	ND	FH	0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-6

Matrix: Water

Lab File ID: CY31X07.D

Analysis Method: 8260D

Date Collected: 05/23/2023 11:38

Sample wt/vol: 25 (mL)

Date Analyzed: 05/31/2023 22:59

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.: 381658

Units: ug/L

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	0.94		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND	FH	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)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	91		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\10193\20230531-85466.b\CY31X07.D
 Lims ID: 410-127761-A-6
 Client ID: HD-COD-SW-15-0/1-0
 Sample Type: Client
 Inject. Date: 31-May-2023 22:59:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-008
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 14:57:00 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp

Date:

01-Jun-2023 14:57:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.684				ND	
2 Dichlorodifluoromethane	85		1.715				ND	
3 Chlorodifluoromethane	51		1.727				ND	7
4 Dimethyl ether	45		1.776				ND	
5 Chloromethane	50	1.867	1.879	-0.012	97	6151	0.0737	
6 Vinyl chloride	62		1.983				ND	
7 Butadiene	39		1.995				ND	7
8 2-Chloro-1,1,1-Trifluoroethane	118		2.062				ND	
9 Bromomethane	94		2.264				ND	7
10 Chloroethane	64		2.325				ND	
11 Dichlorofluoromethane	67		2.544				ND	7
13 Pentane	43		2.587				ND	
12 Trichlorofluoromethane	101		2.593				ND	
14 Ethyl ether	59		2.770				ND	
T 15 Vinyl bromide TIC	106		2.830				ND	
16 1,2-Dichloro-1,1,2-trifluoroethane	67		2.867				ND	7
17 Acrolein	56		2.916				ND	7
18 1,1-Dichloroethene	96	3.050	3.032	0.018	66	7711	0.1604	
20 Acetone	43	3.105	3.062	0.043	96	12000	1.36	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		3.080				ND	
T 19 Ethanol TIC	45	3.117	3.099	0.018	23	220	0.001157	
22 Iodomethane	142		3.190				ND	
23 Ethyl bromide	108		3.215				ND	
24 Isopropyl alcohol	45		3.215				ND	U
25 Carbon disulfide	76		3.276				ND	7
T 167 Isopropyl alcohol TIC	45	3.269	3.276	-0.007	21	583	0.003067	
26 Methyl acetate	43		3.410				ND	7
29 3-Chloro-1-propene	41		3.422				ND	
27 Acetonitrile	41		3.440				ND	U
T 28 Acetonitrile TIC	41	3.483	3.477	0.006	14	301	0.001584	
30 Methylene Chloride	84		3.580				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.666	3.641	0.025	97	184917	50.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
32 2-Methyl-2-propanol	59		3.733				ND	
33 Acrylonitrile	53		3.891				ND	
34 Methyl tert-butyl ether	73	3.952	3.928	0.024	89	6979	0.0420	
35 trans-1,2-Dichloroethene	96		3.934				ND	
36 Hexane	57		4.318				ND	
37 1,1-Dichloroethane	63	4.586	4.556	0.030	92	10369	0.0974	M
38 Vinyl acetate	43		4.568				ND	7
39 Isopropyl ether	45		4.623				ND	
40 2-Chloro-1,3-butadiene	53		4.672				ND	
41 Tert-butyl ethyl ether	59		5.184				ND	7
42 2-Butanone (MEK)	43		5.409				ND	
43 cis-1,2-Dichloroethene	96	5.440	5.421	0.019	80	60674	0.9439	
44 2,2-Dichloropropane	77		5.428				ND	7
46 Ethyl acetate	43		5.494				ND	7
45 Propionitrile	54		5.507				ND	
47 Methacrylonitrile	67		5.714				ND	
48 Chlorobromomethane	128		5.757				ND	
49 Tetrahydrofuran	71		5.793				ND	
50 Chloroform	83	5.934	5.921	0.013	93	25736	0.2418	
51 Methyl acrylate	55		6.013				ND	
53 1,1,1-Trichloroethane	97	6.147	6.135	0.012	37	20837	0.2220	
\$ 54 Dibromofluoromethane (Surr)	113	6.153	6.141	0.012	94	452431	9.14	
S 52 1,2-Dichloroethene, Total	100				0		0.9439	
55 Cyclohexane	56		6.232				ND	
56 Carbon tetrachloride	117		6.348				ND	7
57 1,1-Dichloropropene	75		6.366				ND	
58 Isobutyl alcohol	41		6.598				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.604	0.012	99	94940	9.73	
60 Benzene	78		6.629				ND	7
61 1,2-Dichloroethane	62		6.714				ND	
63 Isopropyl acetate	43		6.756				ND	
62 1-Chlorobutane	56		6.781				ND	
64 Tert-amyl methyl ether	73		6.842				ND	
* 65 Fluorobenzene (IS)	96	7.061	7.049	0.012	99	1900654	10.0	
66 n-Heptane	43		7.068				ND	7
67 n-Butanol	56		7.525				ND	
68 Trichloroethene	95	7.561	7.543	0.018	98	60405	0.9378	
69 Methylcyclohexane	83		7.842				ND	
70 1,2-Dichloropropane	63		7.878				ND	
71 2-ethoxy-2-methyl butane	87		7.903				ND	
73 Methyl methacrylate	69		7.994				ND	
74 1,4-Dioxane	88		8.000				ND	
72 Dibromomethane	93		8.000				ND	
75 n-Propyl acetate	61		8.104				ND	
76 Dichlorobromomethane	83		8.244				ND	
77 2-Nitropropane	41		8.531				ND	7
78 1-Bromo-2-chloroethane	63		8.640				ND	
79 2-Chloroethyl vinyl ether	63		8.646				ND	
80 cis-1,3-Dichloropropene	75		8.817				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.024				ND	7
81 Chloroacetonitrile	75	9.165	9.067	0.098	31	805	NC	
\$ 83 Toluene-d8 (Surr)	98	9.159	9.152	0.007	93	1992084	10.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
84 Toluene	92	9.244	9.238	0.006	98	5070	0.0341	
85 trans-1,3-Dichloropropene	75		9.543				ND	
86 Ethyl methacrylate	69		9.628				ND	
87 1,1,2-Trichloroethane	97		9.762				ND	7
88 Tetrachloroethene	166	9.847	9.841	0.006	98	299427	4.26	
89 1,3-Dichloropropane	76		9.933				ND	
T 103 2-Chloroethanol TIC	44	10.232	10.000	0.232	1	533	0.002804	
T 102 Methyl acrylate TIC	55	10.384	10.000	0.384	1	531	0.002794	
T 101 Ethylene oxide TIC	43		10.000				ND	
T 99 2,3-Dibromopropene TIC	119	9.854	10.000	-0.146	1	2617	0.0138	
T 90 2-Bromoethanol TIC	45	9.213	10.000	-0.787	1	172	0.000905	
T 100 2-Bromo-3-chloropropene TIC	75	10.738	10.000	0.738	4	22937	0.1207	
T 105 Chloroacetaldehyde TIC	50	9.579	10.000	-0.421	1	214	0.001126	
T 104 Epibromohydrin TIC	57	10.731	10.000	0.731	1	627	0.003299	
T 95 Vinyl acetate (TIC)	43		10.000				ND	
T 96 Nitrobenzene TIC	77	9.701	10.000	-0.299	1	255	0.001342	
T 94 2,3-Dibromo-1-propanol TIC	57		10.000				ND	
T 97 Decamethylcyclotetrasiloxane TIC	78	10.012	10.000	0.012	1	200	0.001052	
T 91 Octamethylcyclotetrasiloxane TIC	78	11.865	10.000	1.865	90	12521	0.0659	
T 92 3-Chloro-1,2-propanediol TIC	43	9.280	10.000	-0.720	1	284	0.001494	
T 93 Monochloroacetic acid TIC	50	9.579	10.000	-0.421	1	214	0.001126	
T 98 Epichlorohydrin TIC	57	10.731	10.000	0.731	35	627	0.003299	
106 2-Hexanone	43		10.006				ND	
S 107 1,3-Dichloropropene, Total	100		10.060				ND	7
109 n-Butyl acetate	43		10.158				ND	
108 Chlorodibromomethane	129		10.158				ND	
110 Ethylene Dibromide	107		10.268				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.738	10.738	0.000	85	1615109	10.0	
112 1-Chlorohexane	91		10.756				ND	7
113 Chlorobenzene	112		10.762				ND	
114 1,1,1,2-Tetrachloroethane	131		10.853				ND	7
115 Ethylbenzene	91		10.859				ND	7
116 m-Xylene & p-Xylene	106		10.981				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.323				ND	7
119 Styrene	104		11.341				ND	7
120 Bromoform	173		11.500				ND	
121 Isopropylbenzene	105		11.640				ND	
123 Cyclohexanone	55		11.737				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.786	0.006	94	735792	8.92	
122 cis-1,4-Dichloro-2-butene	88		11.792				ND	U
126 1,1,2,2-Tetrachloroethane	83		11.902				ND	
125 Bromobenzene	156		11.902				ND	
127 trans-1,4-Dichloro-2-butene	53		11.926				ND	
128 1,2,3-Trichloropropane	110		11.945				ND	
129 N-Propylbenzene	91		11.975				ND	
130 2-Chlorotoluene	126		12.054				ND	
131 1,3,5-Trimethylbenzene	105		12.121				ND	7
132 4-Chlorotoluene	126		12.152				ND	
133 tert-Butylbenzene	134		12.365				ND	
134 Pentachloroethane	167		12.396				ND	
135 1,2,4-Trimethylbenzene	105		12.414				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/l	Flags
136 sec-Butylbenzene	105		12.536				ND	
137 1,3-Dichlorobenzene	146		12.633				ND	7
138 4-Isopropyltoluene	119		12.646				ND	7
* 139 1,4-Dichlorobenzene-d4	152	12.694	12.688	0.006	94	893439	10.0	
140 1,4-Dichlorobenzene	146		12.707				ND	7
141 1,2,3-Trimethylbenzene	120		12.719				ND	7
142 Benzyl chloride	126		12.792				ND	7
145 p-Diethylbenzene	119		12.926				ND	
143 n-Butylbenzene	92		12.944				ND	
144 1,2-Dichlorobenzene	146		12.975				ND	
T 146 Hexachloroethane TIC	117	13.450	13.444	0.006	1	198	0.001042	
147 Hexachloroethane	117		13.444				ND	
148 1,2-Dibromo-3-Chloropropane	155		13.536				ND	
149 1,3,5-Trichlorobenzene	180		13.658				ND	
150 1,2,4-Trichlorobenzene	180		14.091				ND	
151 Hexachlorobutadiene	225		14.170				ND	
152 Naphthalene	128		14.267				ND	7
153 1,2,3-Trichlorobenzene	180		14.414				ND	
154 2-Methylnaphthalene	142		15.023				ND	
155 Dodecane	57		0.000				ND	
156 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
157 tert-Butyl Formate	1		0.000				ND	
158 2-Bromo-1-chloropropane	1		0.000				ND	
159 1-Chloropropane	1		0.000				ND	
160 1,1-Dichloroacetone	1		0.000				ND	
161 Methylal	1		0.000				ND	
162 Propene oxide	1		0.000				ND	
163 t-Amyl alcohol	1		0.000				ND	
164 Ethanol	45		0.000				ND	
165 n-Decane	57		0.000				ND	
166 1-Bromo-3-Chloropropane	1		0.000				ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_HP25_ISSS_00070

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X07.D

Injection Date: 31-May-2023 22:59:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-127761-A-6

Lab Sample ID: 410-127761-6

Worklist Smp#: 8

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

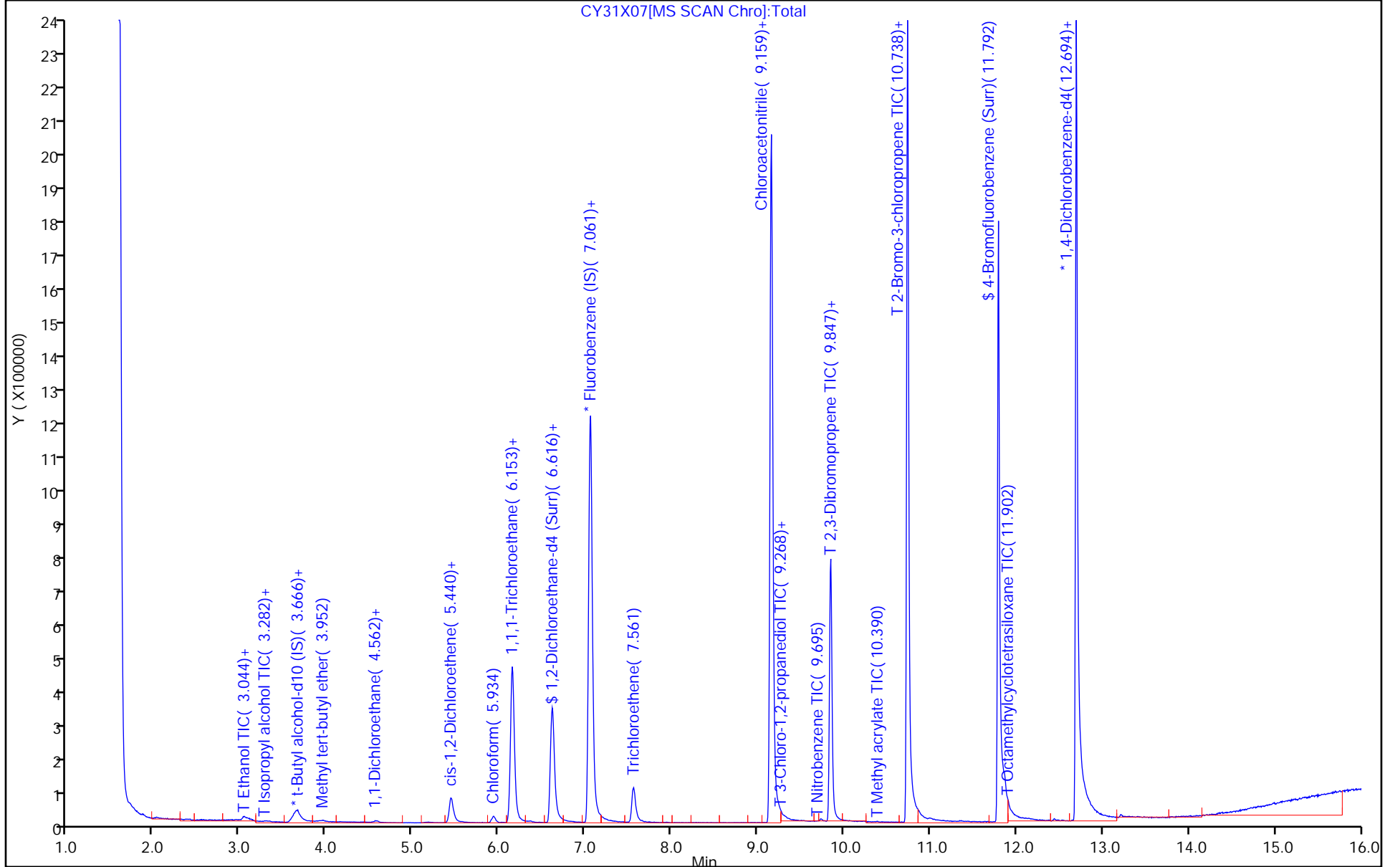
ALS Bottle#: 7

Method: MSV_10193_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\10193\20230531-85466.b\CY31X07.D
 Lims ID: 410-127761-A-6
 Client ID: HD-COD-SW-15-0/1-0
 Sample Type: Client
 Inject. Date: 31-May-2023 22:59:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-008
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 14:57:00 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp Date: 01-Jun-2023 14:57:00

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.14	91.40
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.73	97.32
\$ 83 Toluene-d8 (Surr)	10.0	10.3	103.27
\$ 124 4-Bromofluorobenzene (Surr)	10.0	8.92	89.25

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X07.D

Injection Date: 31-May-2023 22:59:30

Instrument ID: 10193

Lims ID: 410-127761-A-6

Lab Sample ID: 410-127761-6

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

Operator ID: gaw91131

ALS Bottle#: 7

Worklist Smp#: 8

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

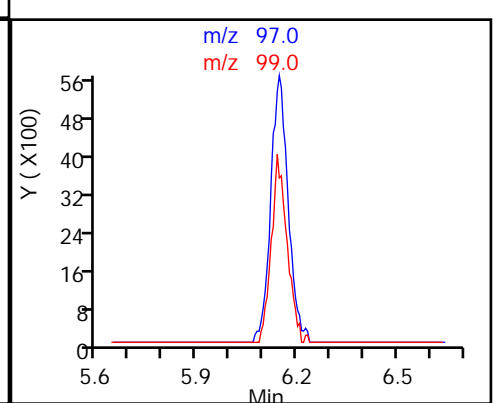
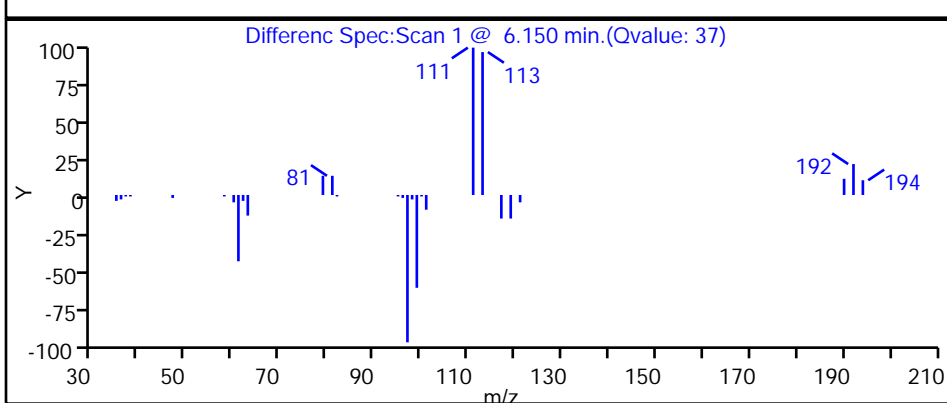
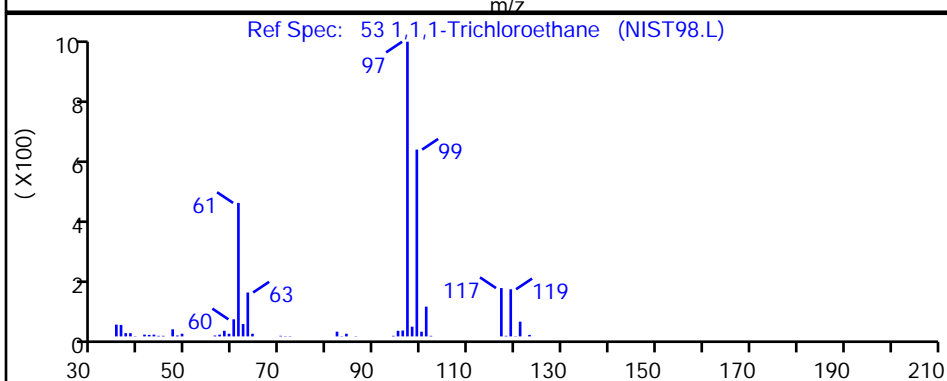
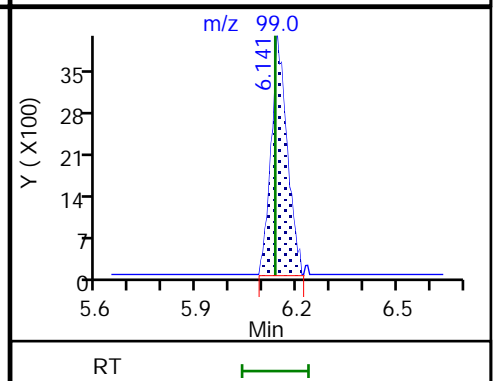
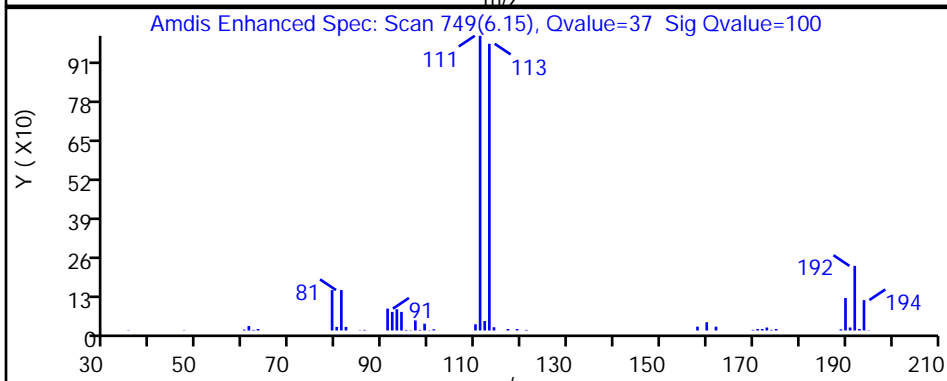
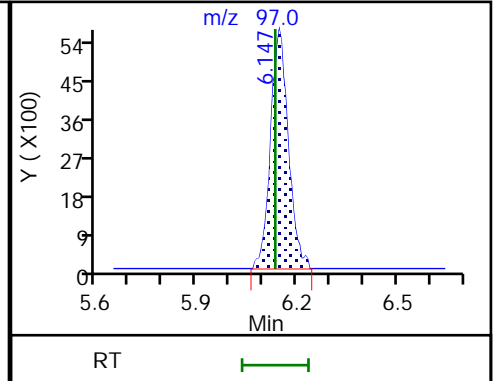
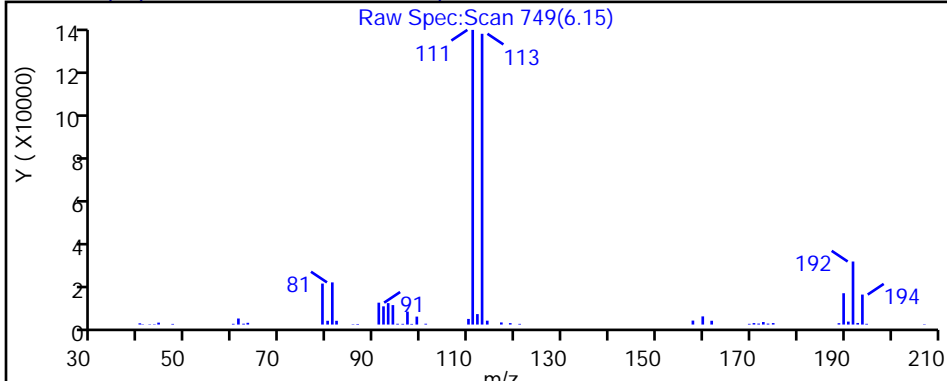
Method: MSV_10193_25mL

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\10193\20230531-85466.b\CY31X07.D

Injection Date: 31-May-2023 22:59:30

Instrument ID: 10193

Lims ID: 410-127761-A-6

Lab Sample ID: 410-127761-6

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

Operator ID: gaw91131

ALS Bottle#: 7

Worklist Smp#: 8

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

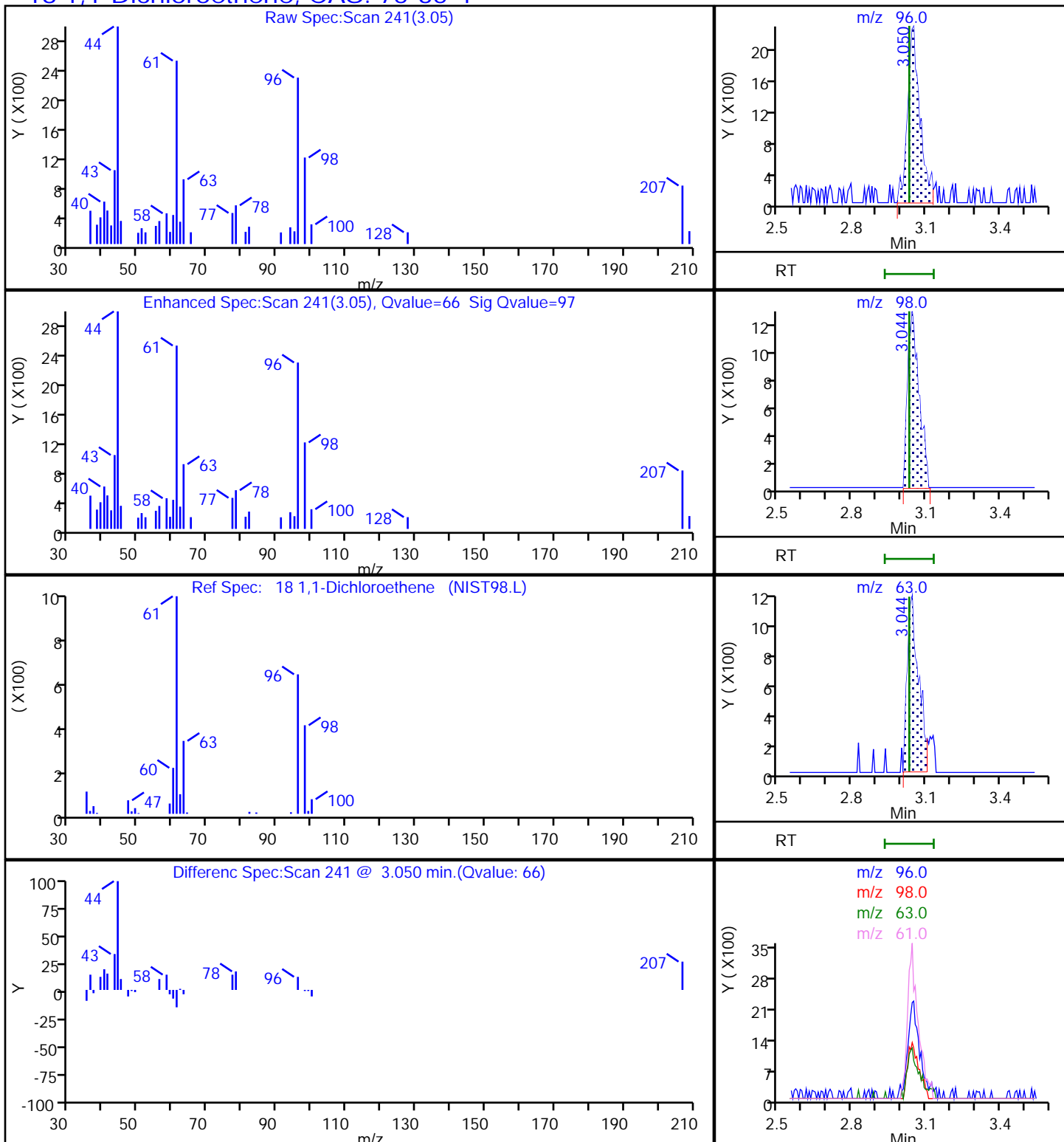
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

18 1,1-Dichloroethene, CAS: 75-35-4



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X07.D

Injection Date: 31-May-2023 22:59:30 Instrument ID: 10193

Lims ID: 410-127761-A-6 Lab Sample ID: 410-127761-6

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

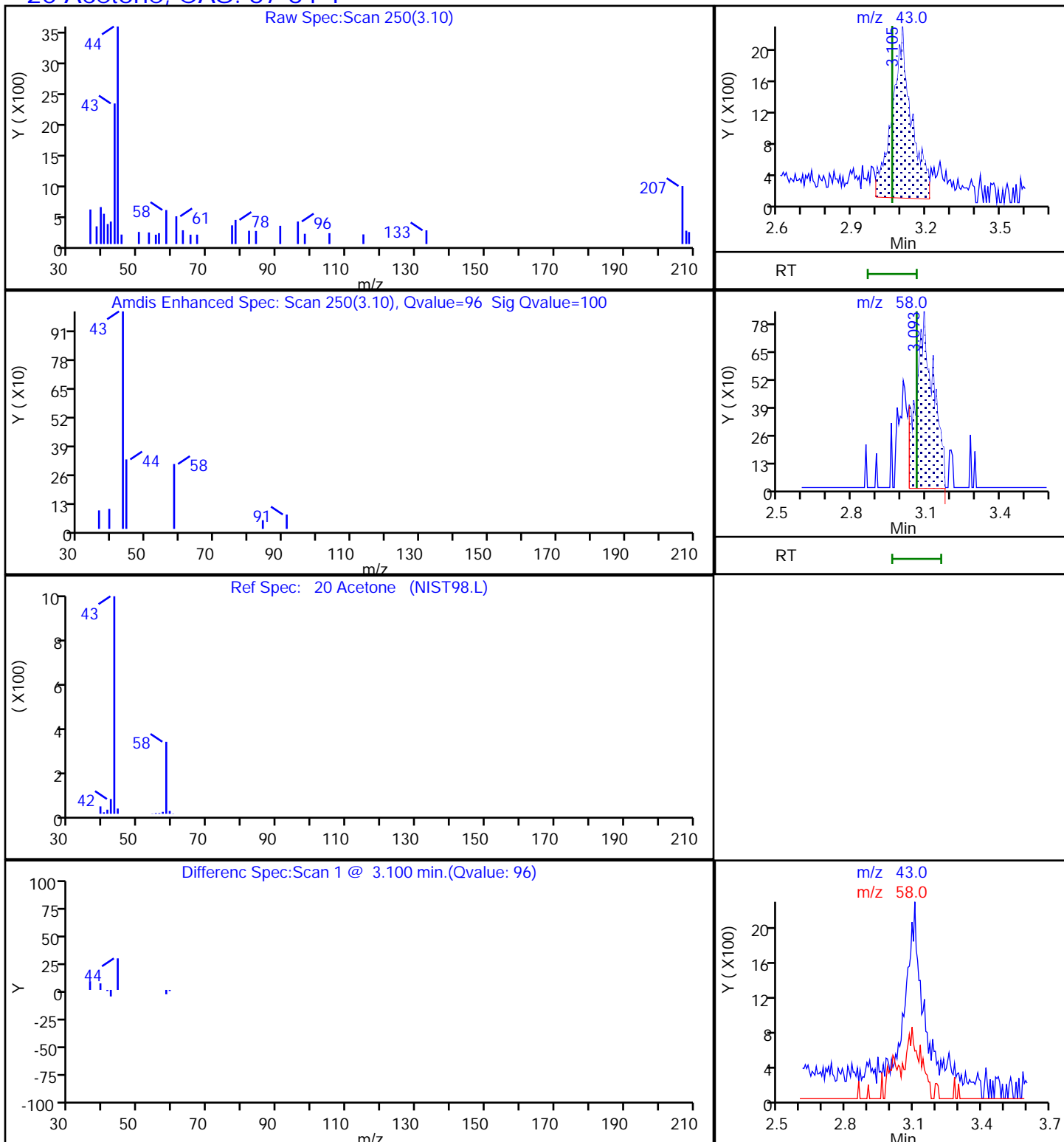
Operator ID: gaw91131 ALS Bottle#: 7 Worklist Smp#: 8

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

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

20 Acetone, CAS: 67-64-1



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X07.D

Injection Date: 31-May-2023 22:59:30

Instrument ID: 10193

Lims ID: 410-127761-A-6

Lab Sample ID: 410-127761-6

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

Operator ID: gaw91131

ALS Bottle#: 7

Worklist Smp#: 8

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

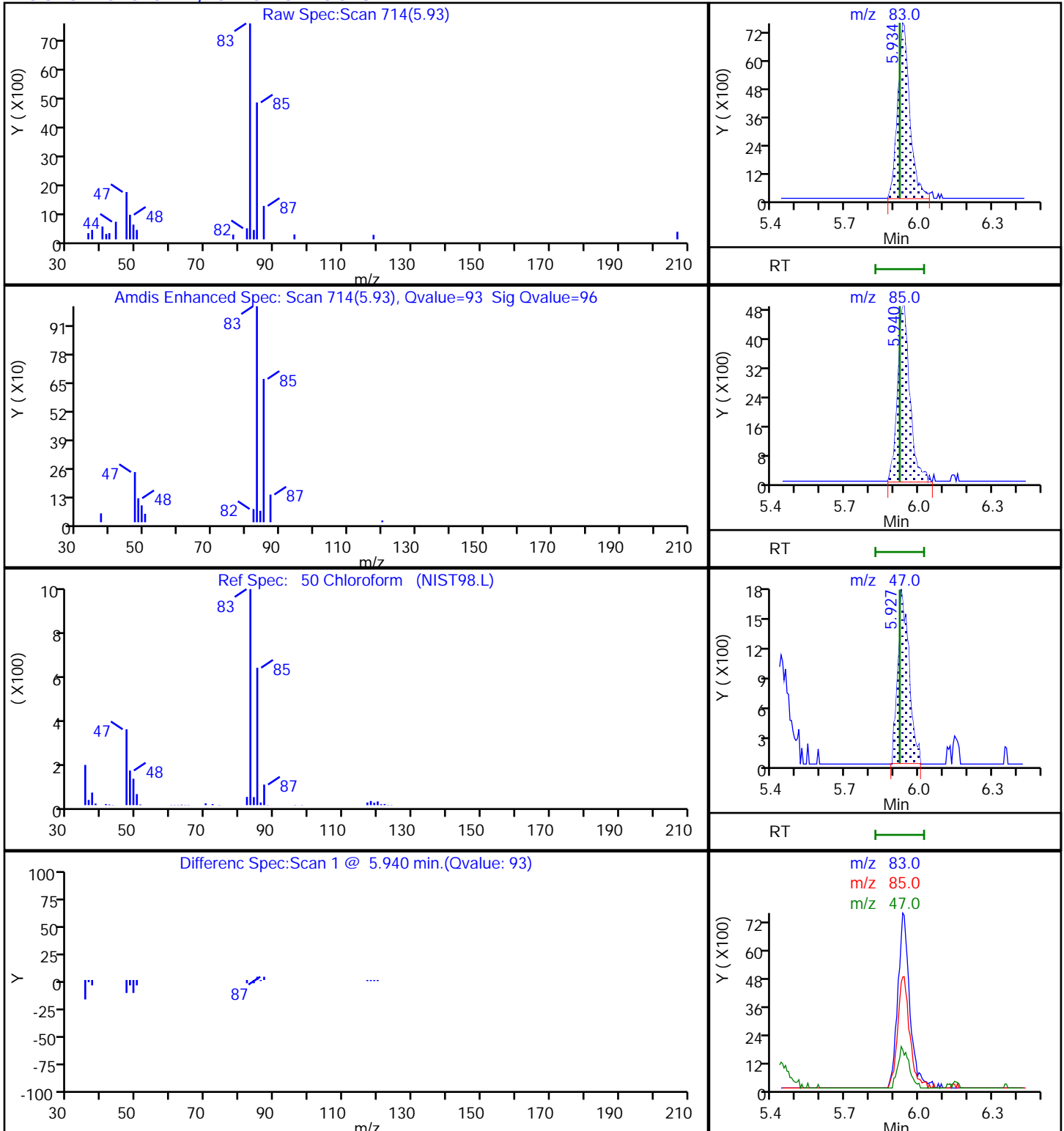
Method: MSV_10193_25mL

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\10193\20230531-85466.b\CY31X07.D

Injection Date: 31-May-2023 22:59:30 Instrument ID: 10193

Lims ID: 410-127761-A-6 Lab Sample ID: 410-127761-6

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

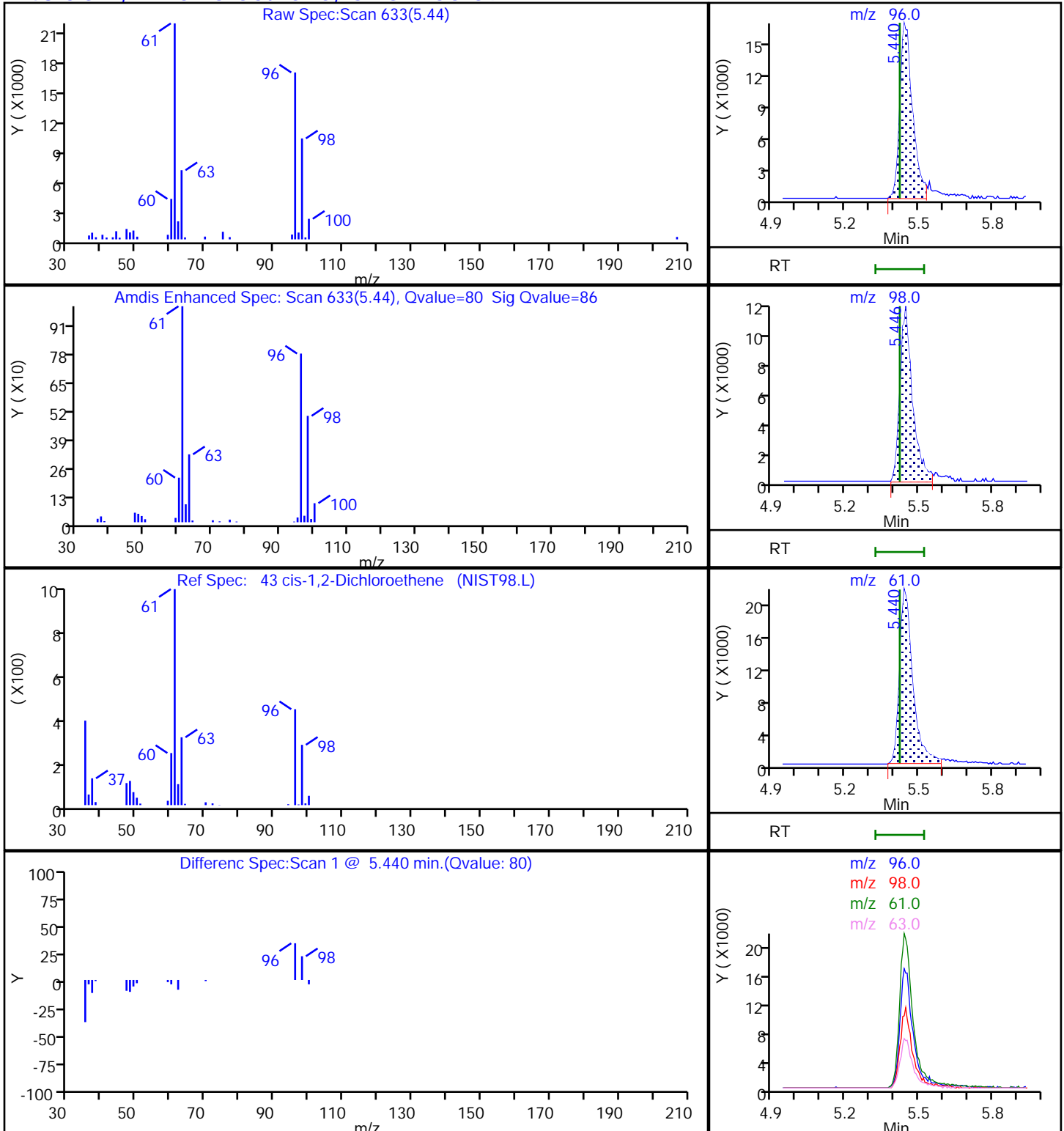
Operator ID: gaw91131 ALS Bottle#: 7 Worklist Smp#: 8

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

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

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



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X07.D

Injection Date: 31-May-2023 22:59:30

Instrument ID: 10193

Lims ID: 410-127761-A-6

Lab Sample ID: 410-127761-6

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

Operator ID: gaw91131

ALS Bottle#: 7

Worklist Smp#: 8

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

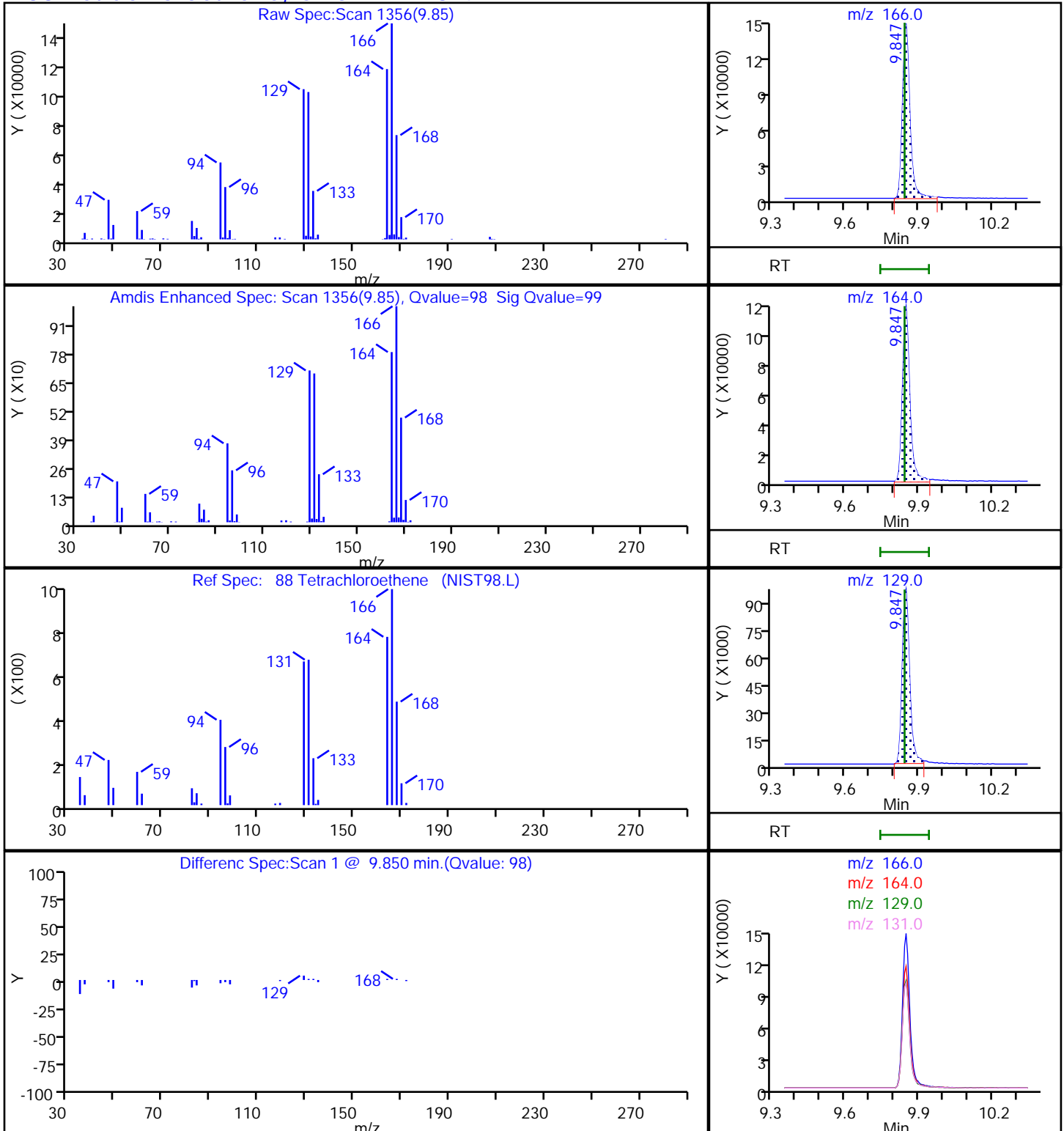
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

88 Tetrachloroethene, CAS: 127-18-4



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X07.D

Injection Date: 31-May-2023 22:59:30

Instrument ID: 10193

Lims ID: 410-127761-A-6

Lab Sample ID: 410-127761-6

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

Operator ID: gaw91131

ALS Bottle#: 7

Worklist Smp#: 8

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

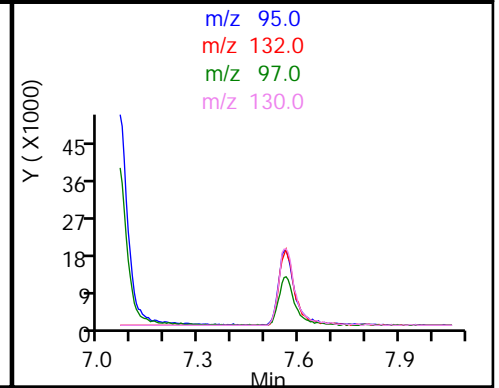
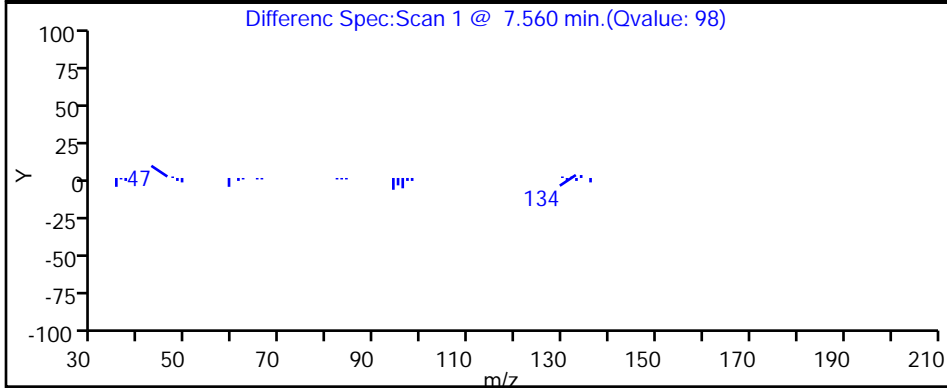
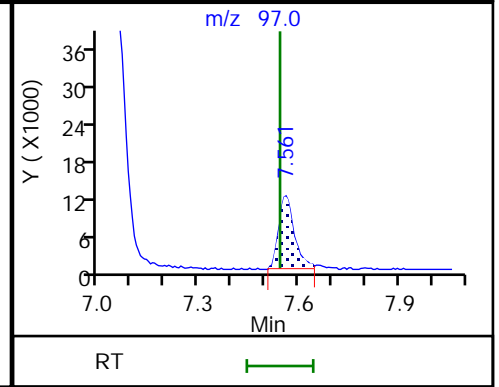
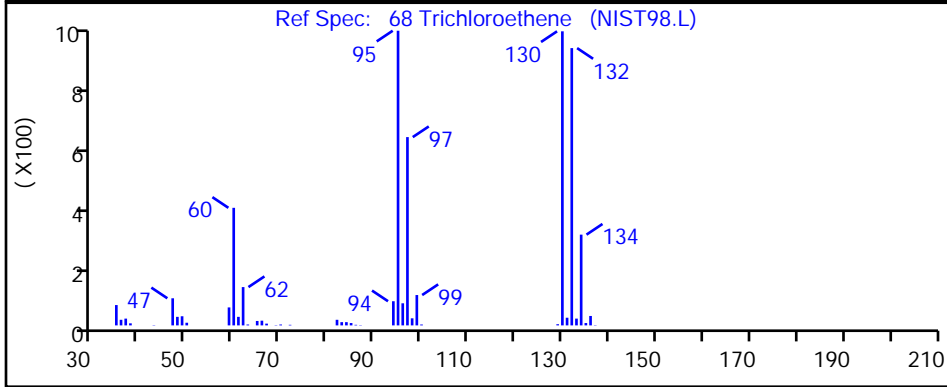
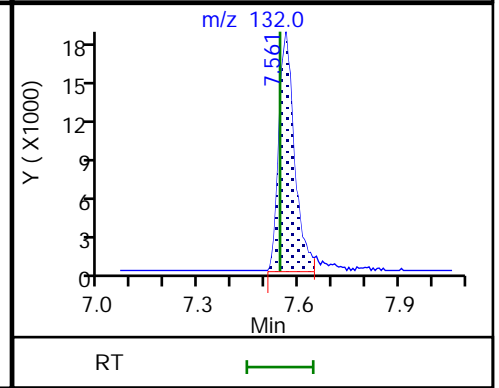
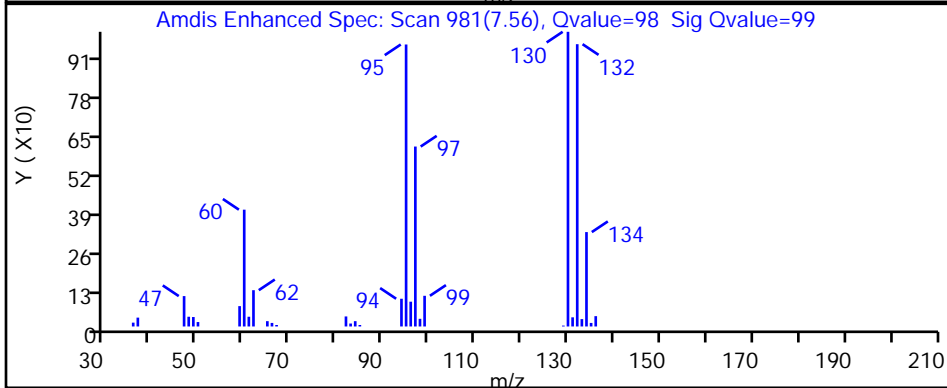
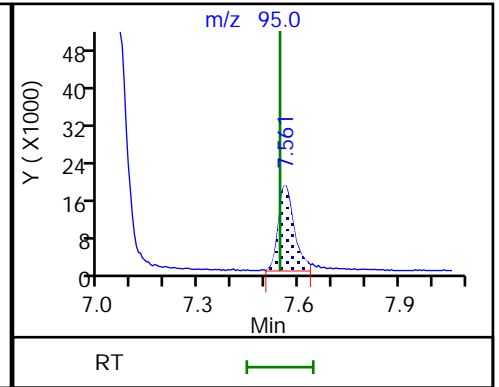
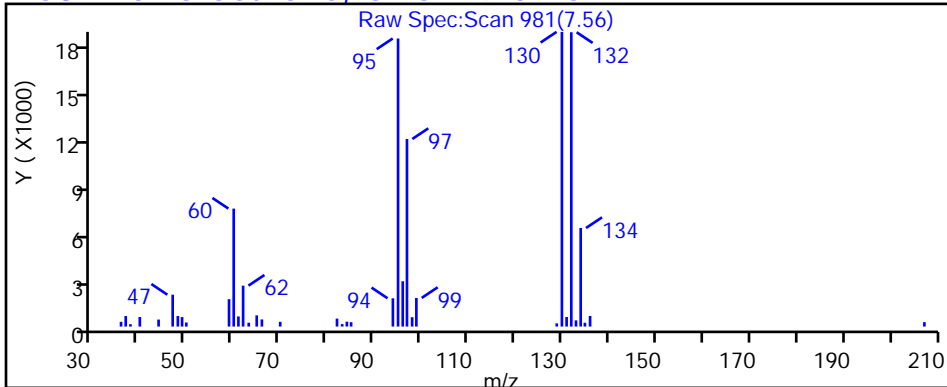
Method: MSV_10193_25mL

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

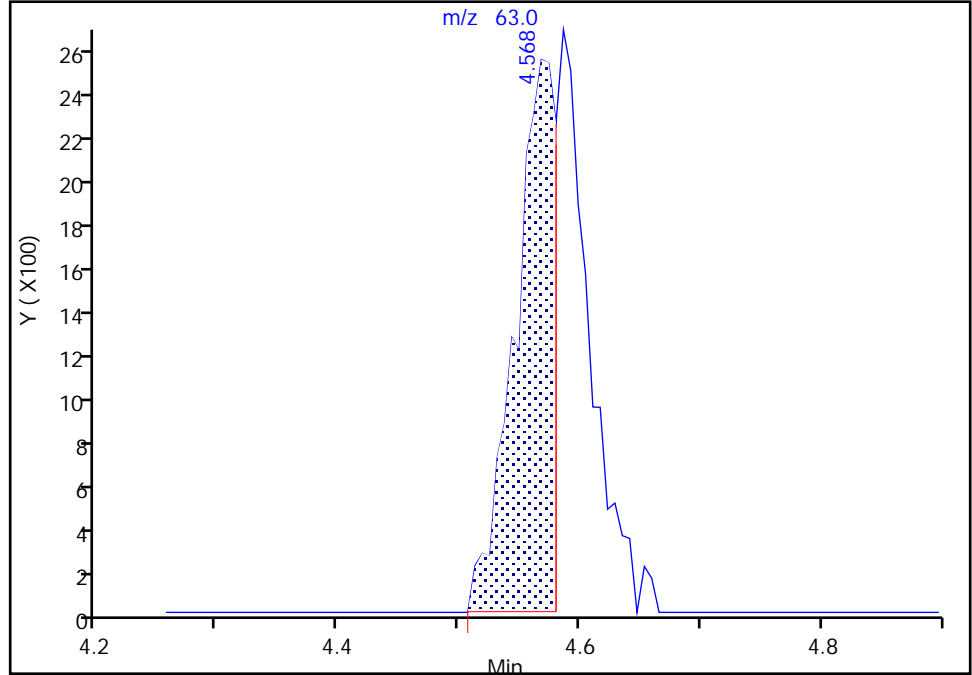
Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X07.D
Injection Date: 31-May-2023 22:59:30 Instrument ID: 10193
Lims ID: 410-127761-A-6 Lab Sample ID: 410-127761-6
Client ID: HD-COD-SW-15-0/1-0
Operator ID: gaw91131 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

37 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

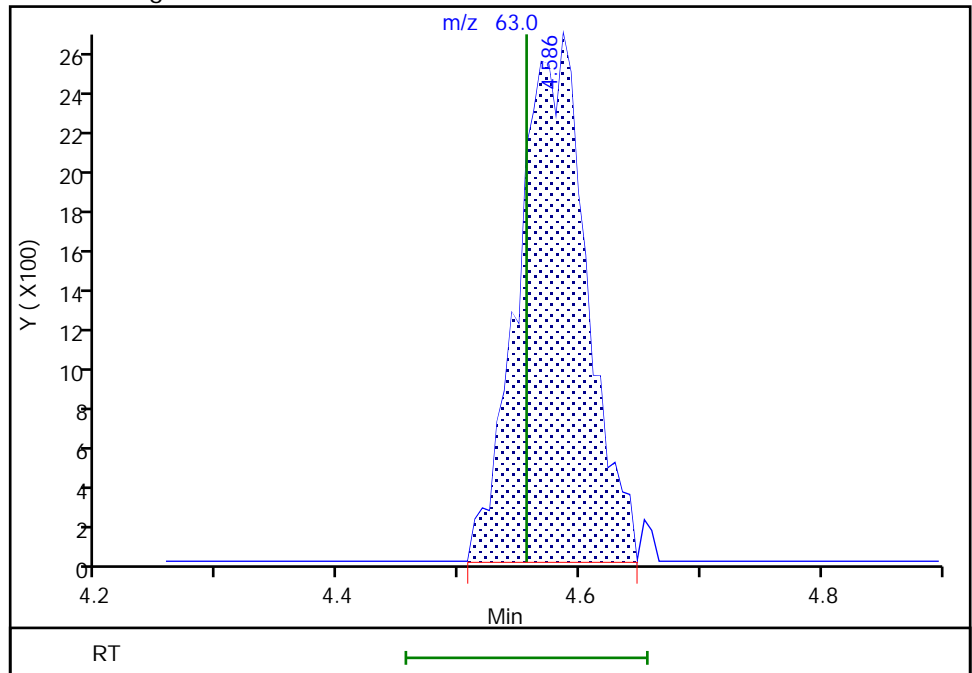
RT: 4.57
Area: 5971
Amount: 0.056110
Amount Units: ug/l

Processing Integration Results



RT: 4.59
Area: 10369
Amount: 0.097438
Amount Units: ug/l

Manual Integration Results



Reviewer: kaewrungrueangp, 01-Jun-2023 14:56:11 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.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-7

Matrix: Water

Lab File ID: CY31X19.D

Analysis Method: 8260D

Date Collected: 05/23/2023 10:05

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 03:27

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 381658

Units: ug/L

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	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	3.8	J	5.0	1.0
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	0.28	J	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.24	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	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.68		0.50	0.20
108-88-3	Toluene	0.089	J	0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1
 Environment Testing, LLC

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0 Lab Sample ID: 410-127761-7

Matrix: Water Lab File ID: CY31X19.D

Analysis Method: 8260D Date Collected: 05/23/2023 10:05

Sample wt/vol: 25 (mL) Date Analyzed: 06/01/2023 03:27

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 381658 Units: ug/L

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	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)	96		80-120
460-00-4	4-Bromofluorobenzene (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		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\10193\20230531-85466.b\CY31X19.D
 Lims ID: 410-127761-A-7
 Client ID: HD-COD-SW-16-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 03:27:30 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-020
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 15:17:15 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp

Date:

01-Jun-2023 15:17:15

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.873	1.879	-0.006	99	21505	0.2758	
6 Vinyl chloride	62		1.983				ND	7
9 Bromomethane	94		2.264				ND	7
10 Chloroethane	64		2.325				ND	
18 1,1-Dichloroethene	96		3.032				ND	7
20 Acetone	43	3.093	3.062	0.030	99	30659	3.77	
25 Carbon disulfide	76		3.276				ND	7
30 Methylene Chloride	84		3.580				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.659	3.641	0.018	97	170773	50.0	
34 Methyl tert-butyl ether	73		3.928				ND	7
35 trans-1,2-Dichloroethene	96		3.934				ND	
37 1,1-Dichloroethane	63		4.556				ND	7
42 2-Butanone (MEK)	43		5.409				ND	
43 cis-1,2-Dichloroethene	96	5.446	5.421	0.025	81	14231	0.2371	
48 Chlorobromomethane	128		5.757				ND	
50 Chloroform	83	5.940	5.921	0.019	91	6903	0.0695	
53 1,1,1-Trichloroethane	97		6.135				ND	U
\$ 54 Dibromofluoromethane (Surr)	113	6.153	6.141	0.012	94	428061	9.26	
56 Carbon tetrachloride	117		6.348				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.604	0.012	99	87171	9.57	
60 Benzene	78		6.629				ND	7
61 1,2-Dichloroethane	62		6.714				ND	
* 65 Fluorobenzene (IS)	96	7.061	7.049	0.012	99	1774477	10.0	
68 Trichloroethene	95	7.567	7.543	0.024	95	12362	0.2056	Ma
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.244				ND	7
80 cis-1,3-Dichloropropene	75		8.817				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.024				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.158	9.152	0.006	93	1901619	10.5	
84 Toluene	92	9.250	9.238	0.012	97	12439	0.0894	
85 trans-1,3-Dichloropropene	75		9.543				ND	
87 1,1,2-Trichloroethane	97		9.762				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	9.853	9.841	0.012	96	44838	0.6822	
106 2-Hexanone	43		10.006				ND	7
108 Chlorodibromomethane	129		10.158				ND	
110 Ethylene Dibromide	107		10.268				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.737	10.738	-0.001	85	1511439	10.0	
113 Chlorobenzene	112		10.762				ND	
114 1,1,1,2-Tetrachloroethane	131		10.853				ND	
115 Ethylbenzene	91		10.859				ND	7
116 m-Xylene & p-Xylene	106		10.981				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.323				ND	7
119 Styrene	104		11.341				ND	7
120 Bromoform	173		11.500				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.786	0.006	93	694556	9.00	
126 1,1,2,2-Tetrachloroethane	83		11.902				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.694	12.688	0.006	94	822715	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

MSV_HP25_ISSS_00070

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X19.D

Injection Date: 01-Jun-2023 03:27:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-127761-A-7

Lab Sample ID: 410-127761-7

Worklist Smp#: 20

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

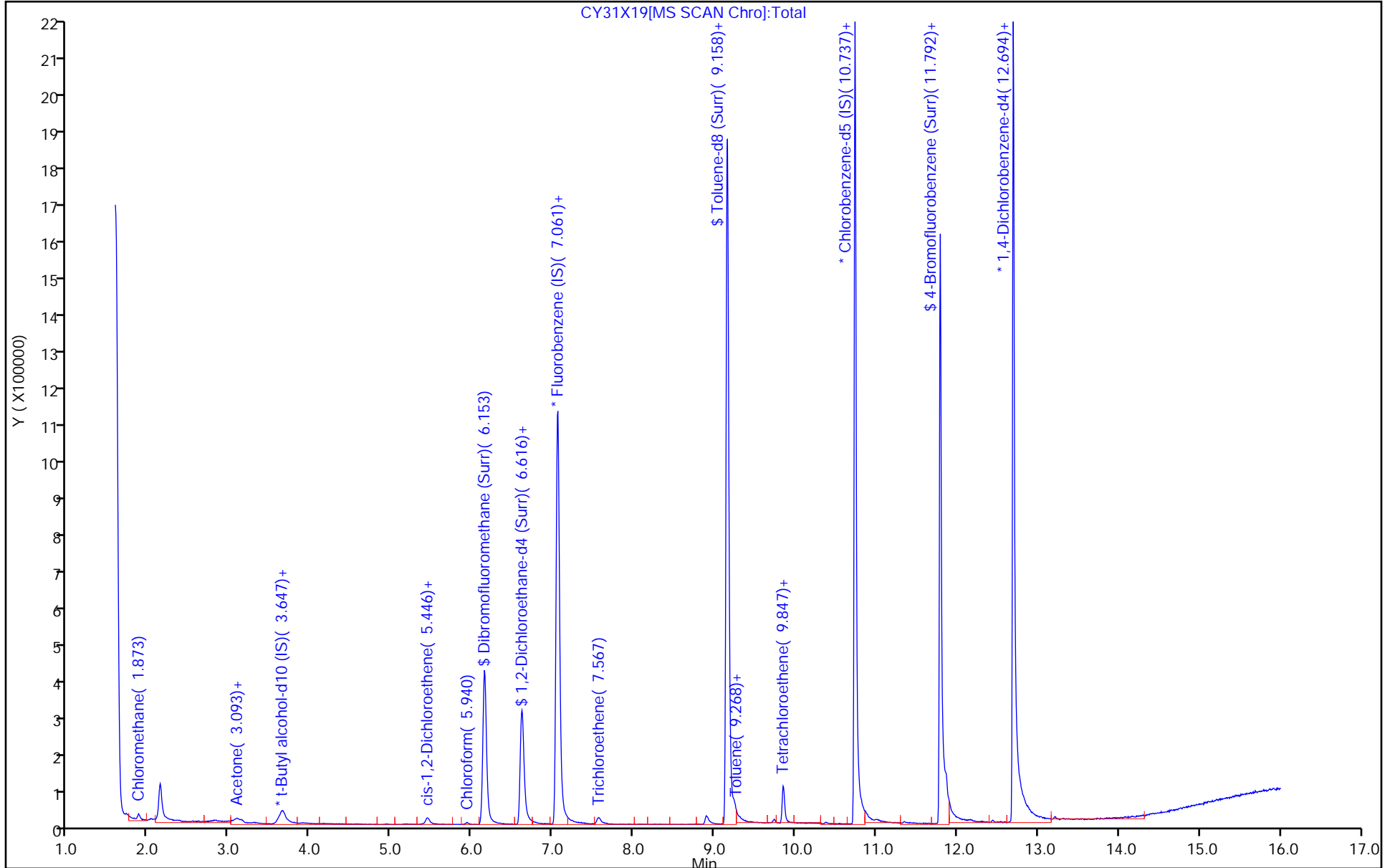
ALS Bottle#: 19

Method: MSV_10193_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\10193\20230531-85466.b\CY31X19.D
 Lims ID: 410-127761-A-7
 Client ID: HD-COD-SW-16-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 03:27:30 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-020
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 15:17:15 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp

Date: 01-Jun-2023 15:17:15

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.26	92.63
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.57	95.71
\$ 83 Toluene-d8 (Surr)	10.0	10.5	105.34
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.00	90.02

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X19.D

Injection Date: 01-Jun-2023 03:27:30

Instrument ID: 10193

Lims ID: 410-127761-A-7

Lab Sample ID: 410-127761-7

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

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

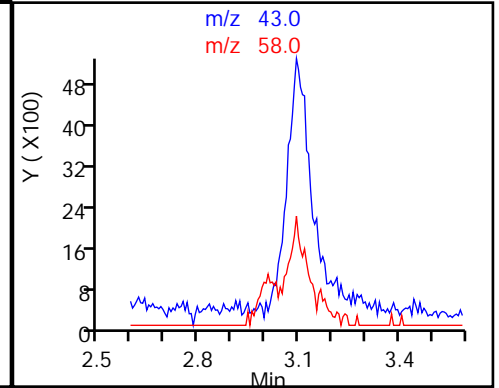
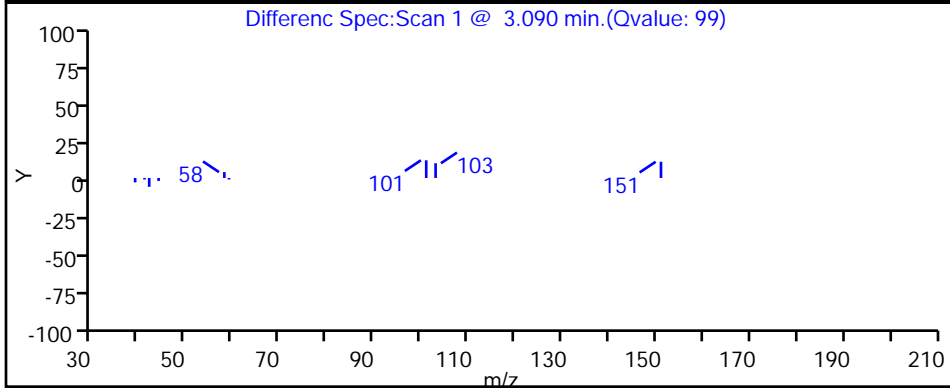
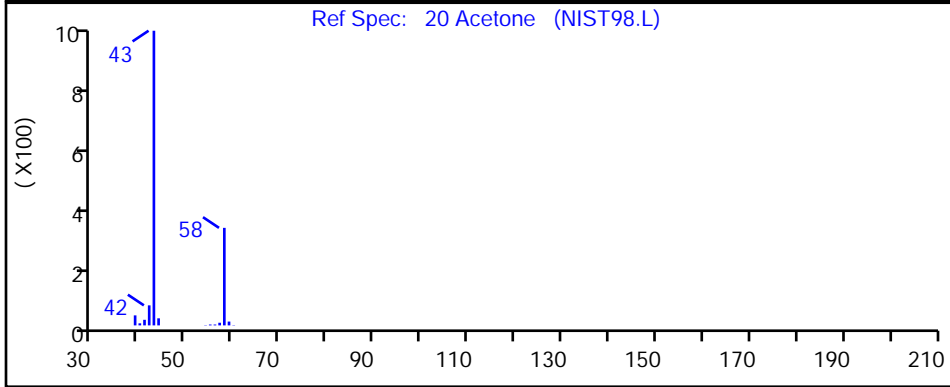
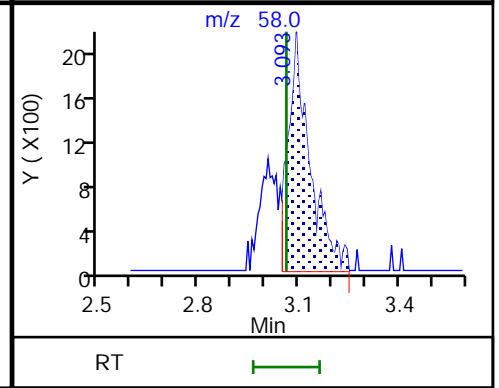
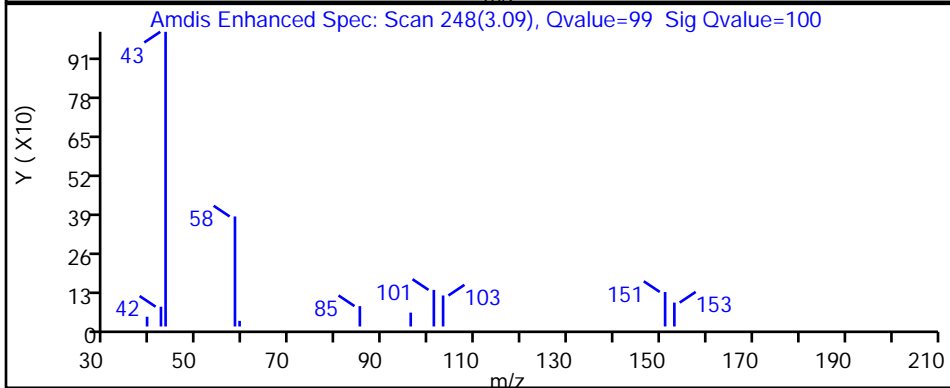
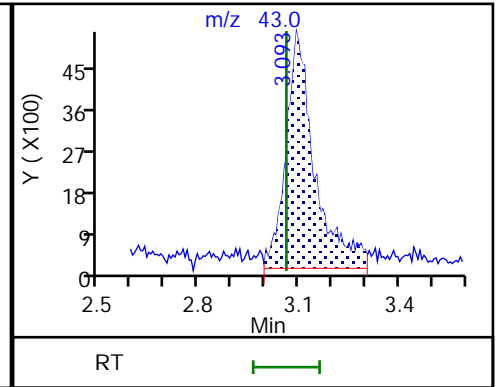
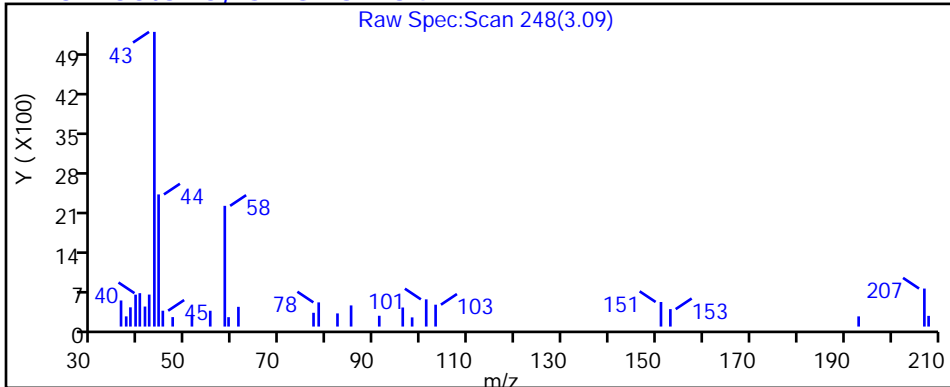
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

20 Acetone, CAS: 67-64-1



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X19.D

Injection Date: 01-Jun-2023 03:27:30

Instrument ID: 10193

Lims ID: 410-127761-A-7

Lab Sample ID: 410-127761-7

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

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

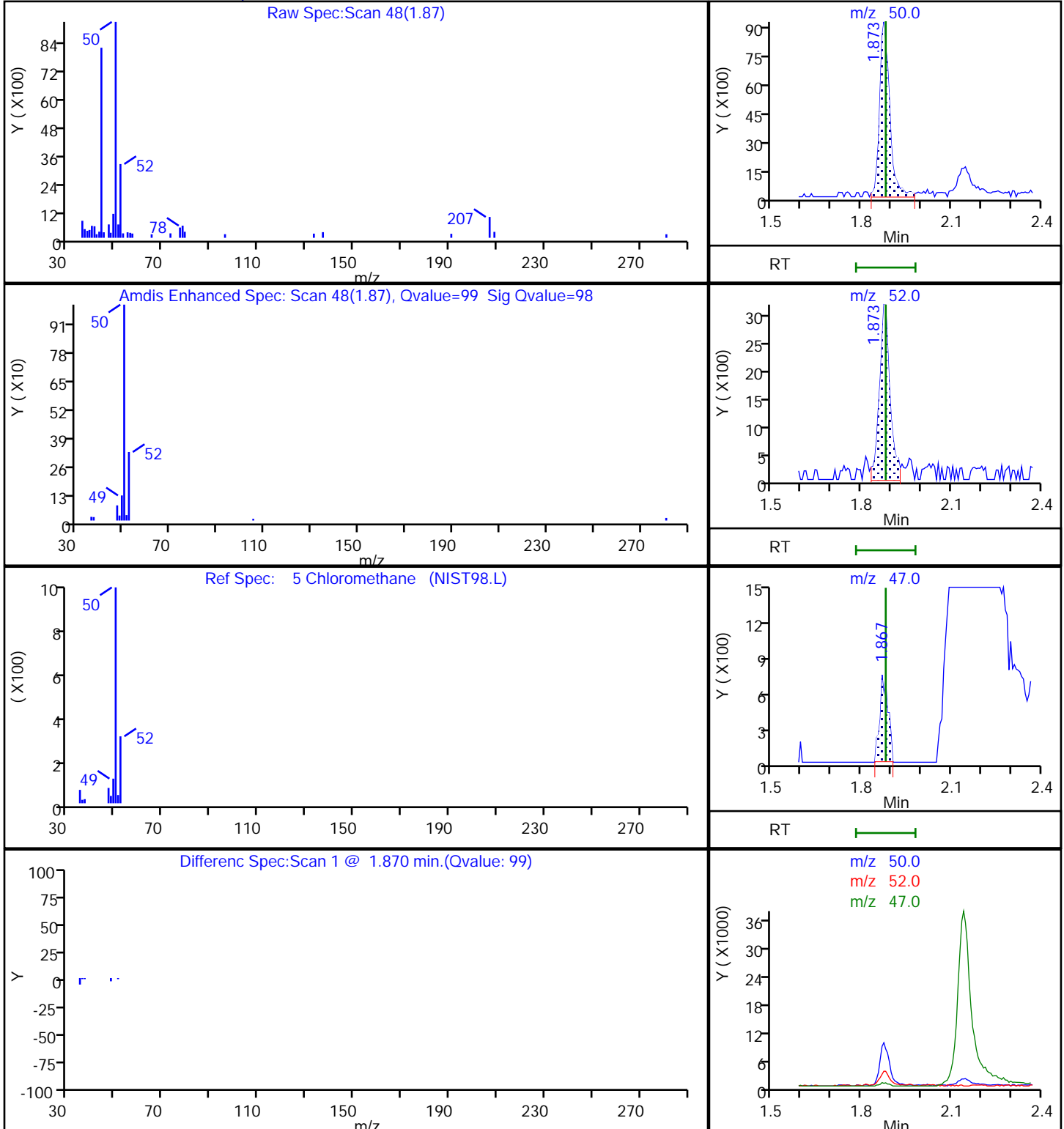
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

5 Chloromethane, CAS: 74-87-3



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X19.D

Injection Date: 01-Jun-2023 03:27:30

Instrument ID: 10193

Lims ID: 410-127761-A-7

Lab Sample ID: 410-127761-7

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

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

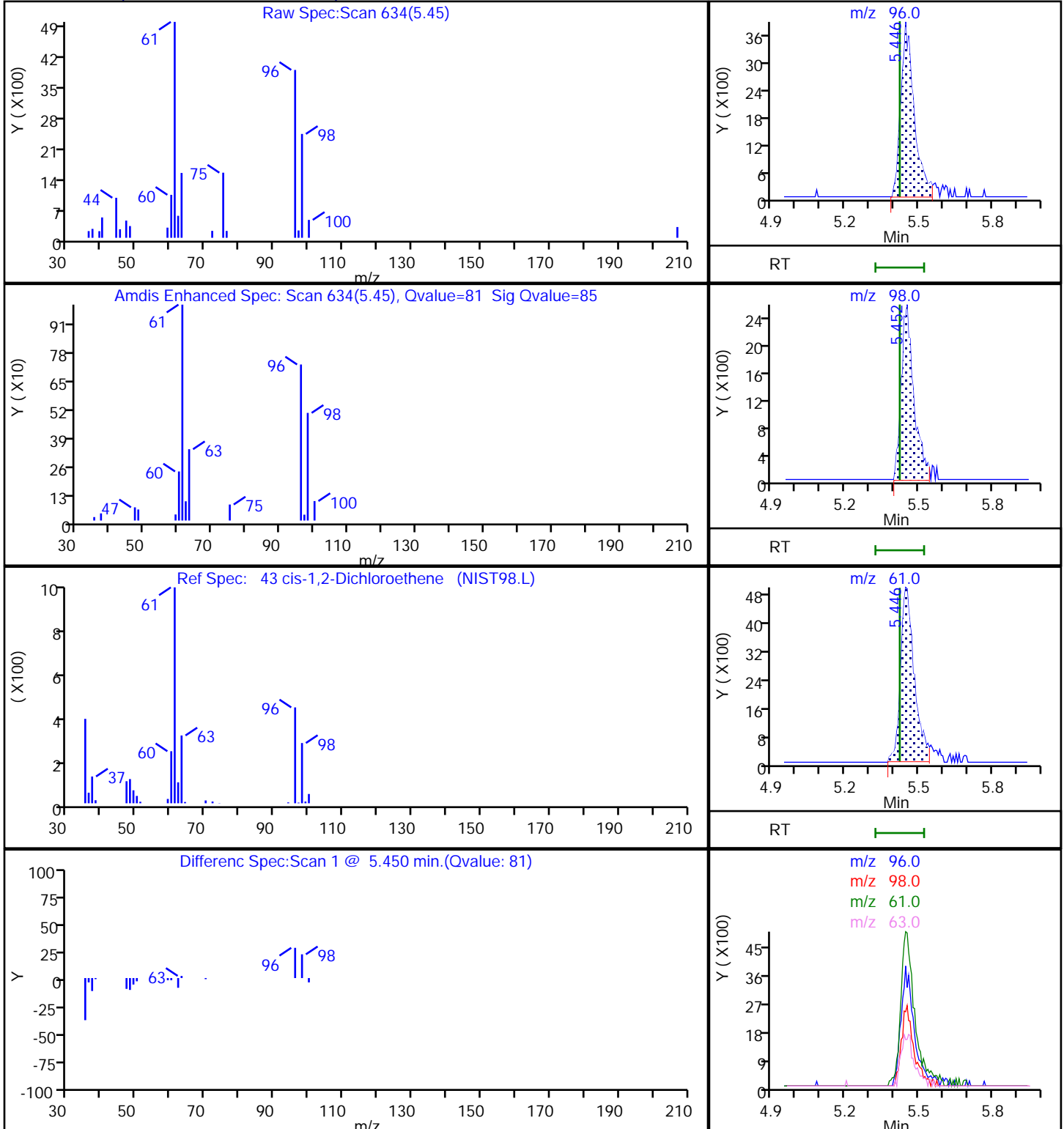
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X19.D

Injection Date: 01-Jun-2023 03:27:30

Instrument ID: 10193

Lims ID: 410-127761-A-7

Lab Sample ID: 410-127761-7

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

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

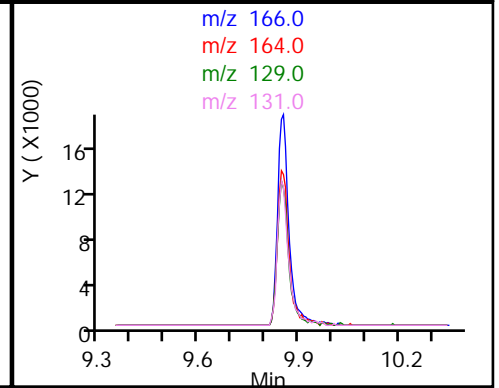
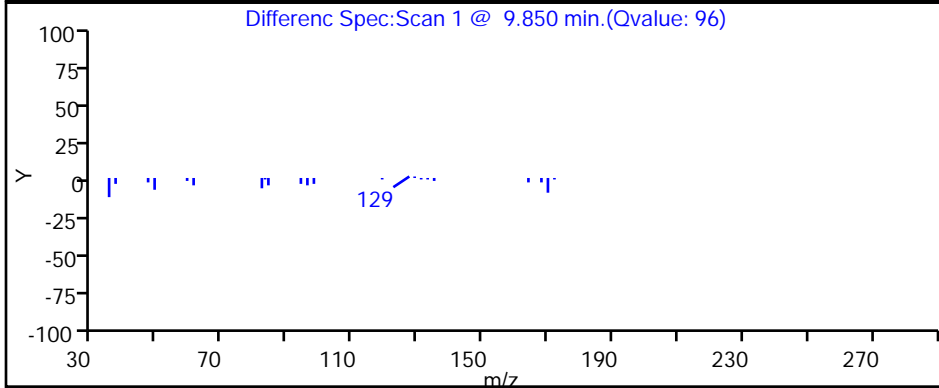
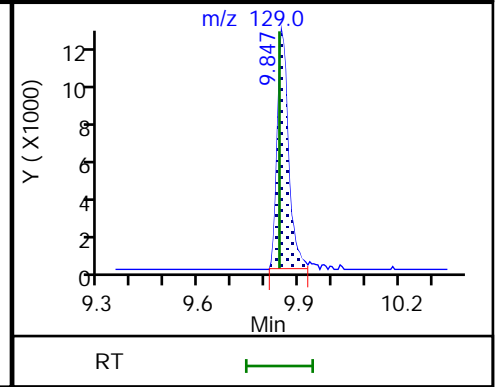
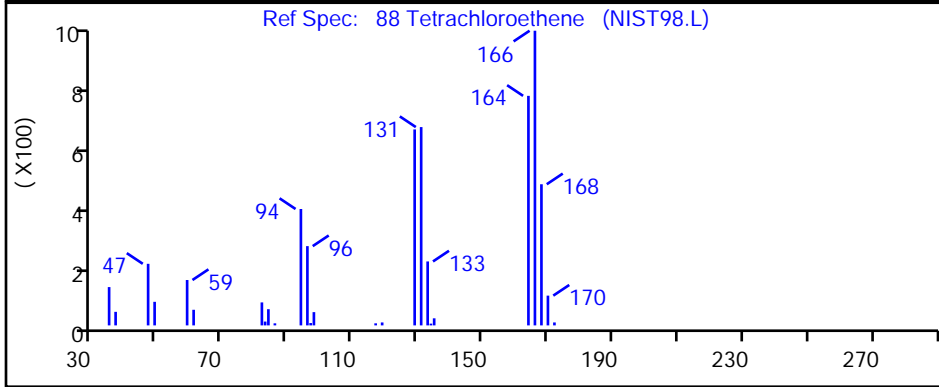
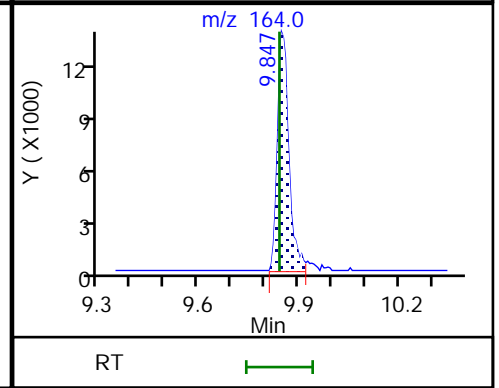
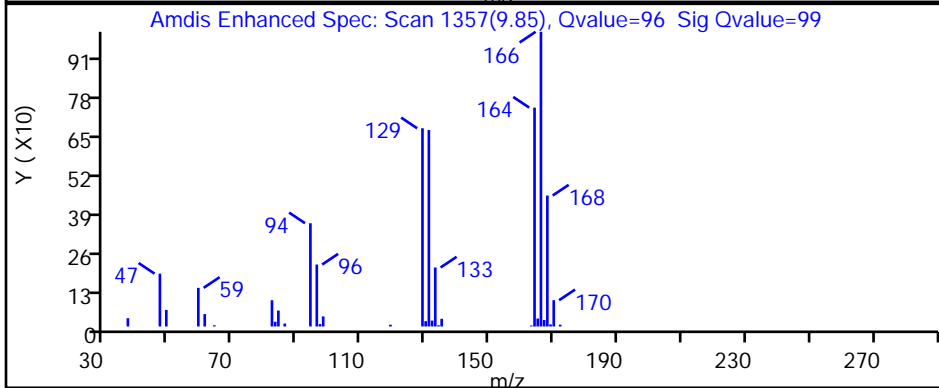
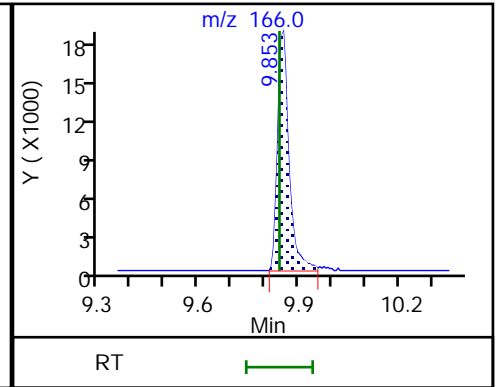
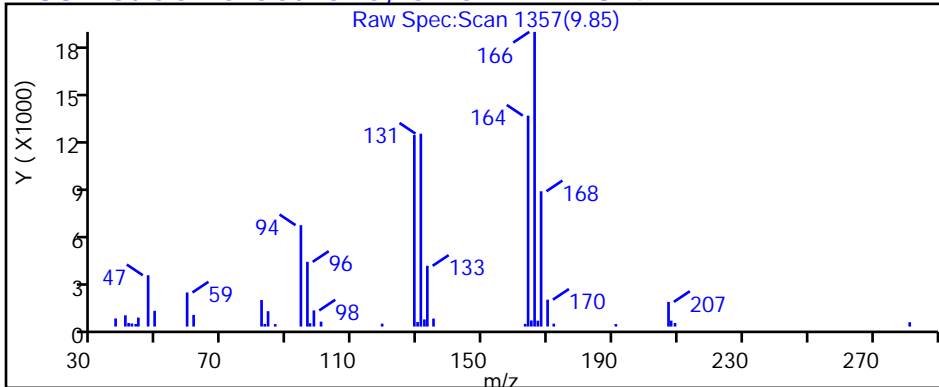
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

88 Tetrachloroethene, CAS: 127-18-4



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X19.D

Injection Date: 01-Jun-2023 03:27:30

Instrument ID: 10193

Lims ID: 410-127761-A-7

Lab Sample ID: 410-127761-7

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

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

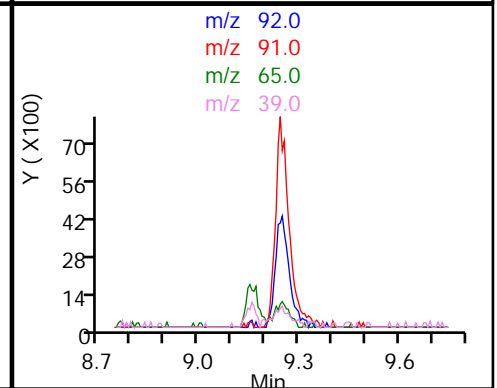
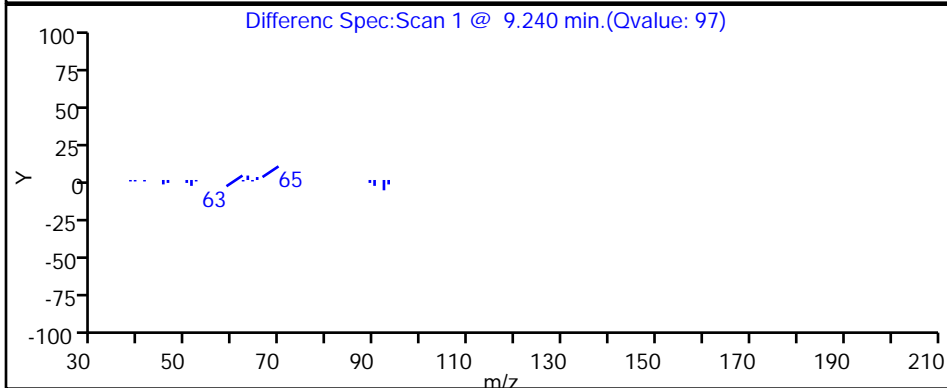
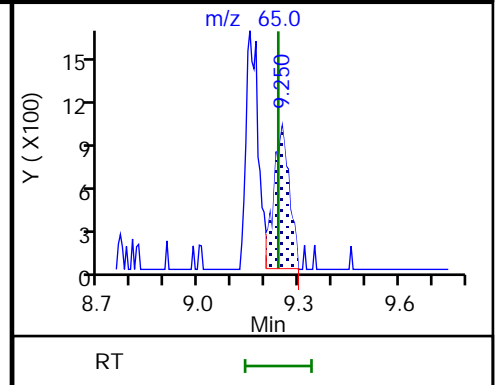
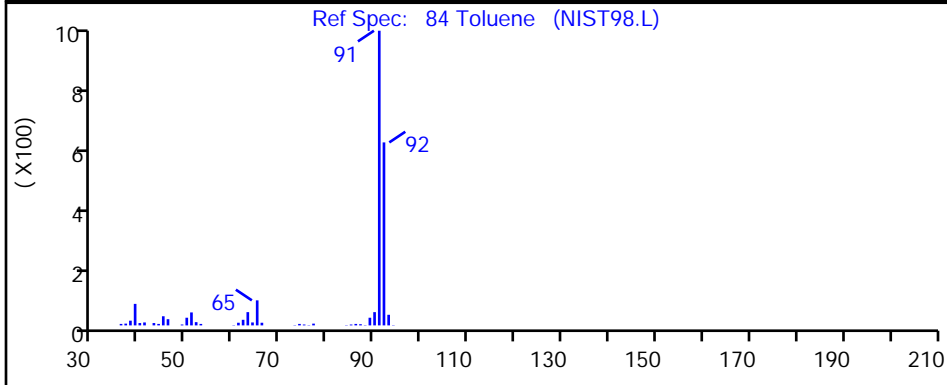
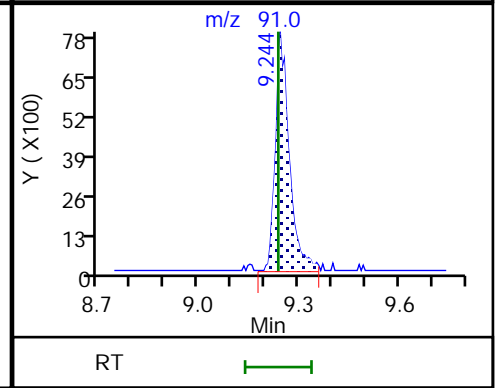
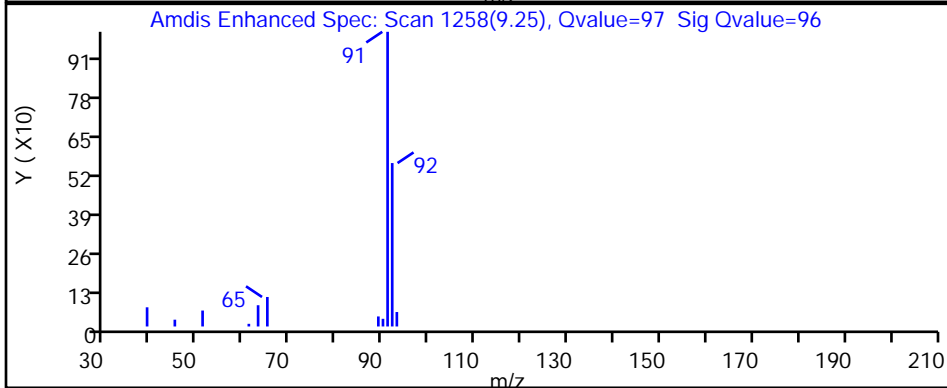
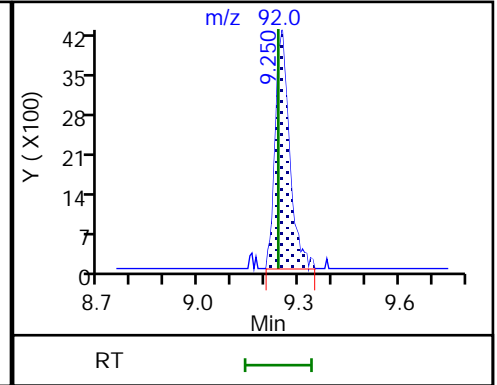
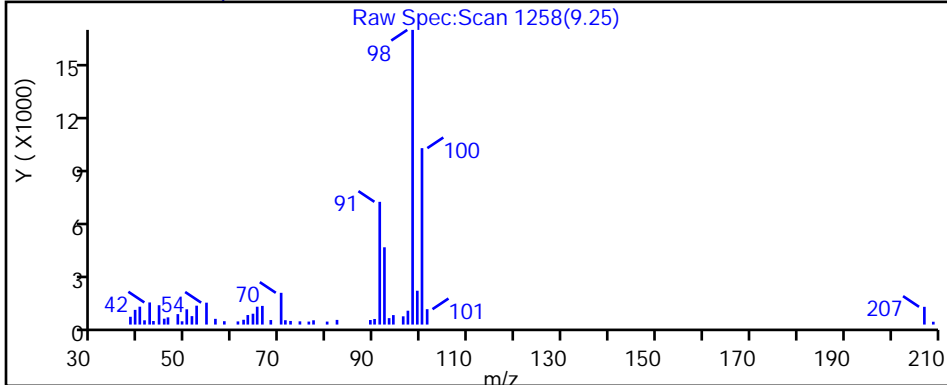
Method: MSV_10193_25mL

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\10193\20230531-85466.b\CY31X19.D

Injection Date: 01-Jun-2023 03:27:30

Instrument ID: 10193

Lims ID: 410-127761-A-7

Lab Sample ID: 410-127761-7

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

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

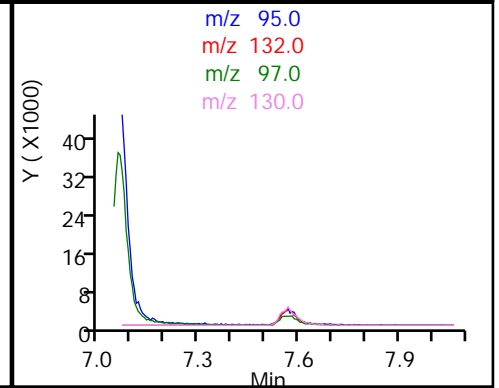
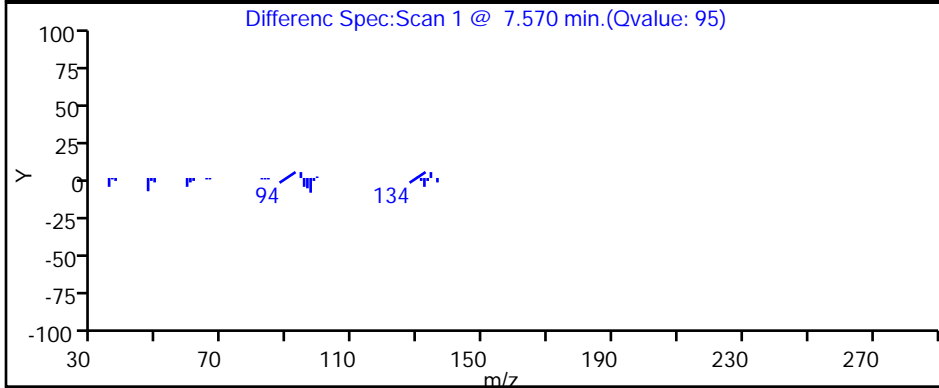
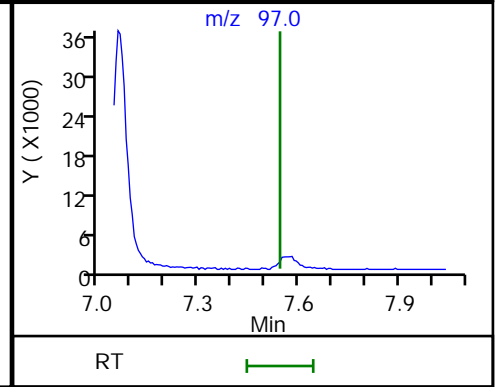
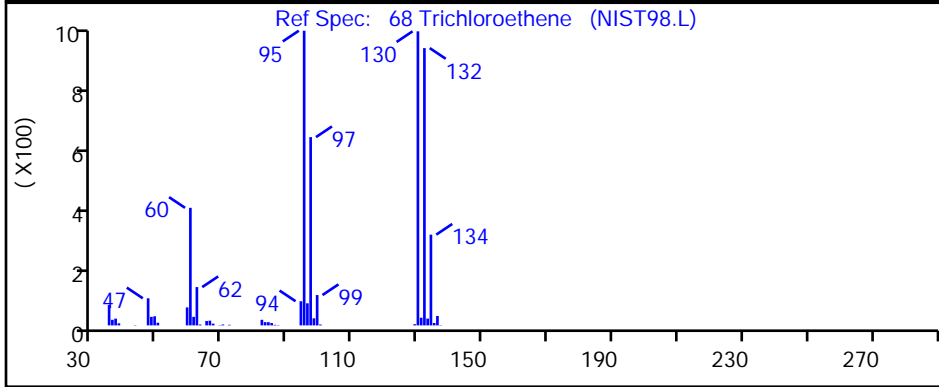
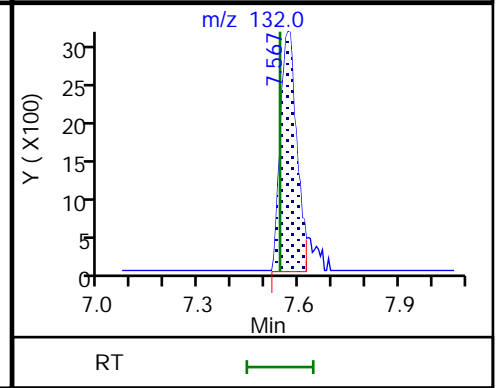
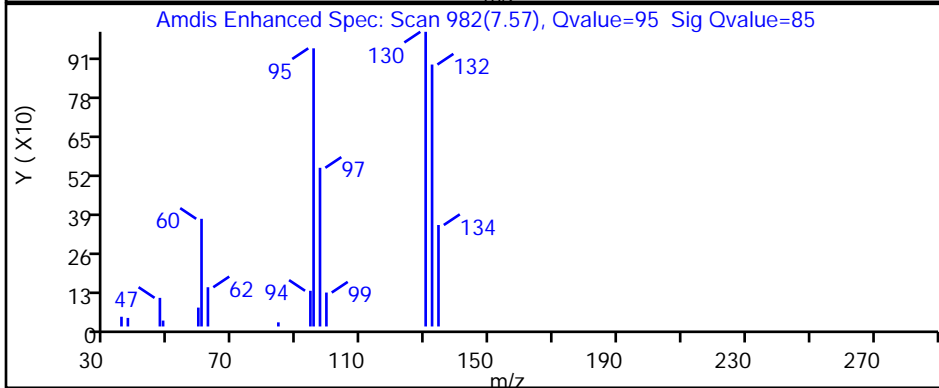
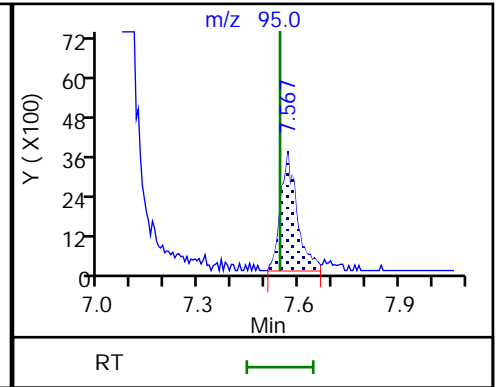
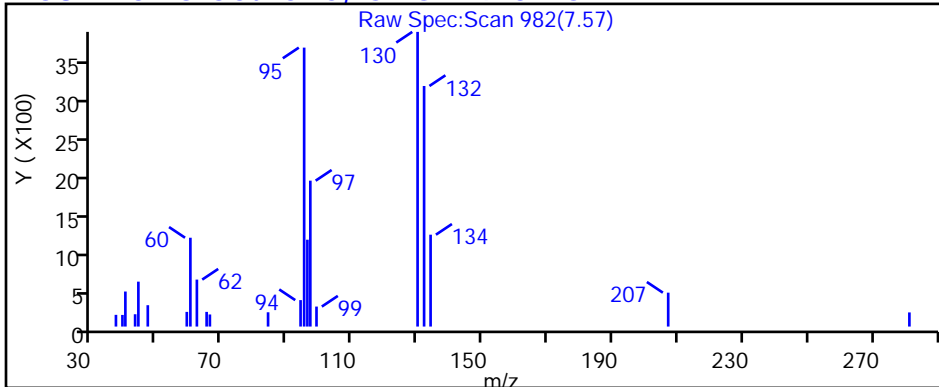
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

68 Trichloroethene, CAS: 79-01-6

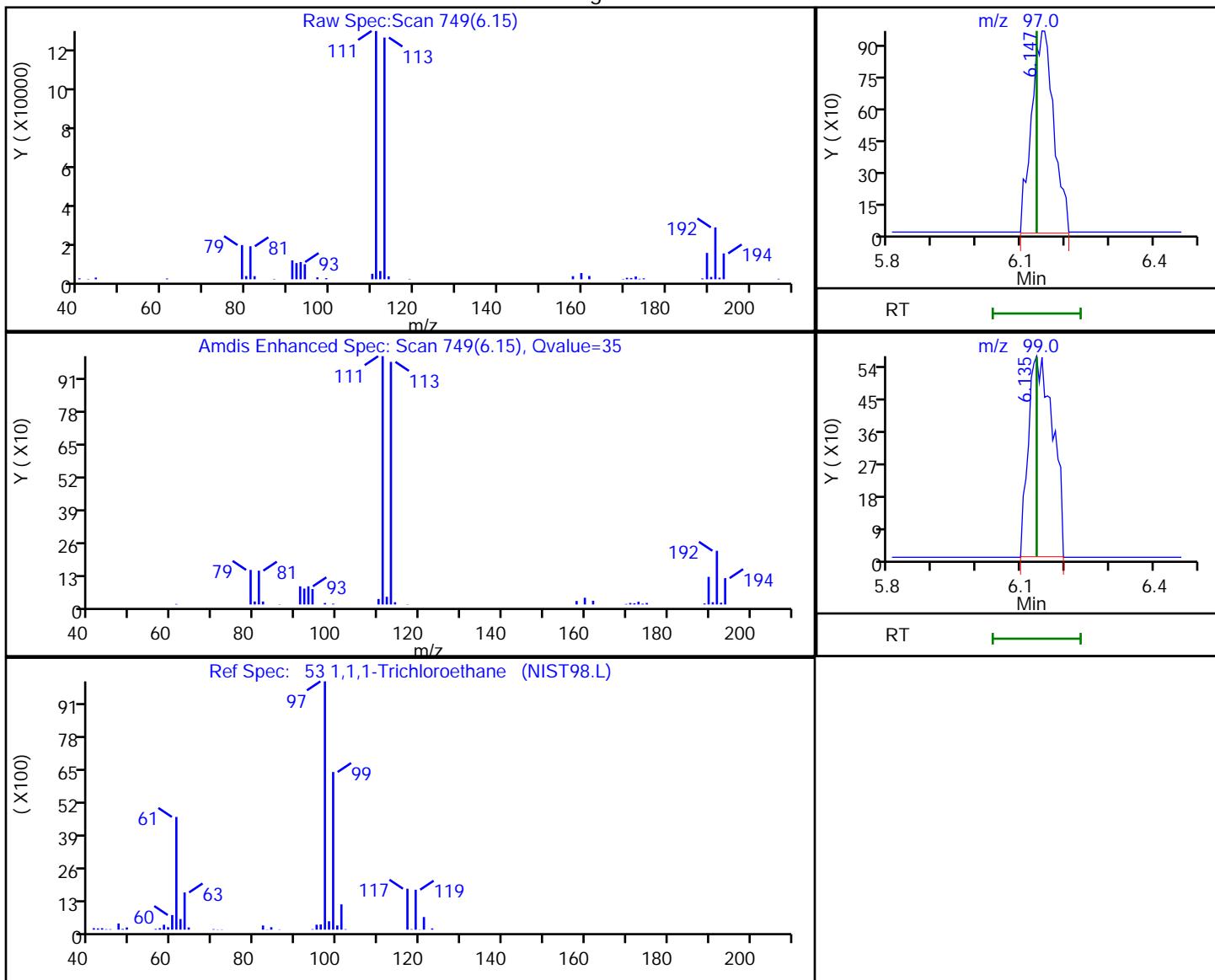


Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X19.D
 Injection Date: 01-Jun-2023 03:27:30 Instrument ID: 10193
 Lims ID: 410-127761-A-7 Lab Sample ID: 410-127761-7
 Client ID: HD-COD-SW-16-0/1-0
 Operator ID: gaw91131 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Method: MSV_10193_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
6.15	97.00	3380	0.038573
6.13	99.00	2162	

Reviewer: kaewrungrueangp, 01-Jun-2023 15:16:36 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

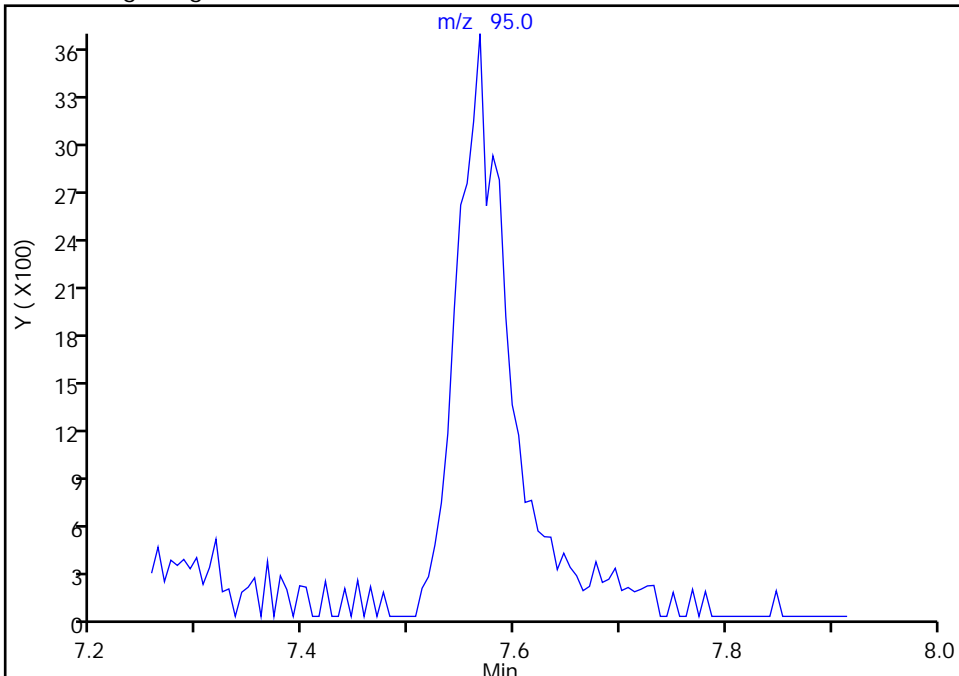
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Injection Date: 01-Jun-2023 03:27:30 Instrument ID: 10193
Lims ID: 410-127761-A-7 Lab Sample ID: 410-127761-7
Client ID: HD-COD-SW-16-0/1-0
Operator ID: gaw91131 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

68 Trichloroethene, CAS: 79-01-6

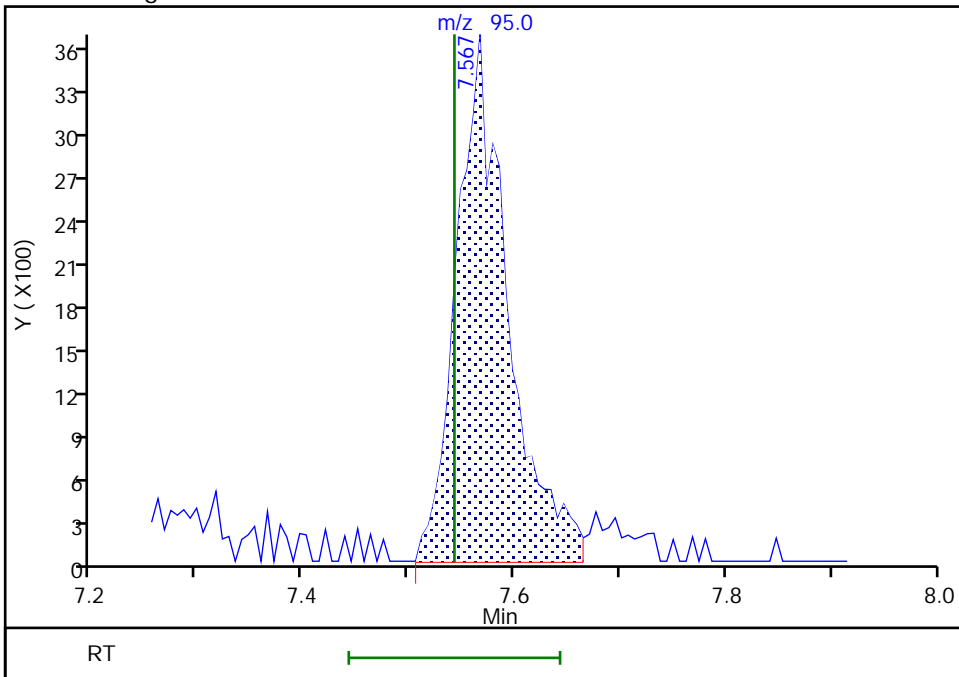
Signal: 1

Not Detected
Expected RT: 7.54

Processing Integration Results



Manual Integration Results



RT: 7.57
Area: 12362
Amount: 0.205568
Amount Units: ug/l

Reviewer: kaewrungrueangp, 01-Jun-2023 15:16:58 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.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-8

Matrix: Water

Lab File ID: CY31X20.D

Analysis Method: 8260D

Date Collected: 05/23/2023 10:15

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 03:49

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.: 381658

Units: ug/L

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	2.6		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	0.62		0.50	0.10
75-35-4	1,1-Dichloroethene	0.29	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	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	3.3	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.16	J	0.50	0.090
74-87-3	Chloromethane	0.23	J	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	2.2		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	0.10
100-42-5	Styrene	ND		0.50	0.070
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-8

Matrix: Water

Lab File ID: CY31X20.D

Analysis Method: 8260D

Date Collected: 05/23/2023 10:15

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 03:49

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.: 381658

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	1.7		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		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\10193\20230531-85466.b\CY31X20.D
 Lims ID: 410-127761-A-8
 Client ID: HD-COD-SW-17-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 03:49:30 ALS Bottle#: 20 Worklist Smp#: 21
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-021
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 15:17:55 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp

Date:

01-Jun-2023 16:06:22

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.867	1.879	-0.012	99	18054	0.2259	
6 Vinyl chloride	62	1.983	1.983	0.000	93	3810	0.0499	
9 Bromomethane	94		2.264				ND	
10 Chloroethane	64		2.325				ND	7
18 1,1-Dichloroethene	96	3.038	3.032	0.006	98	13429	0.2918	
20 Acetone	43	3.093	3.062	0.031	99	29175	3.26	
25 Carbon disulfide	76		3.276				ND	7
30 Methylene Chloride	84		3.580				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.647	3.641	0.006	97	187594	50.0	
34 Methyl tert-butyl ether	73		3.928				ND	7
35 trans-1,2-Dichloroethene	96		3.934				ND	
37 1,1-Dichloroethane	63	4.574	4.556	0.018	96	63593	0.6244	
42 2-Butanone (MEK)	43		5.409				ND	7
43 cis-1,2-Dichloroethene	96	5.440	5.421	0.019	79	137054	2.23	
48 Chlorobromomethane	128		5.757				ND	
50 Chloroform	83	5.927	5.921	0.006	93	16138	0.1584	
53 1,1,1-Trichloroethane	97	6.141	6.135	0.006	99	237728	2.65	
\$ 54 Dibromofluoromethane (Surr)	113	6.153	6.141	0.012	94	441188	9.31	
56 Carbon tetrachloride	117		6.348				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.604	0.012	99	93370	10.0	
60 Benzene	78		6.629				ND	7
61 1,2-Dichloroethane	62		6.714				ND	
* 65 Fluorobenzene (IS)	96	7.055	7.049	0.006	99	1819089	10.0	
68 Trichloroethene	95	7.555	7.543	0.012	99	106434	1.73	
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.244				ND	
80 cis-1,3-Dichloropropene	75		8.817				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.024				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.158	9.152	0.006	93	1947002	10.4	
84 Toluene	92	9.250	9.238	0.012	98	7863	0.0544	
85 trans-1,3-Dichloropropene	75		9.543				ND	
87 1,1,2-Trichloroethane	97		9.762				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	9.841	9.841	0.000	97	2778626	40.7	E
106 2-Hexanone	43		10.006				ND	7
108 Chlorodibromomethane	129		10.158				ND	
110 Ethylene Dibromide	107		10.268				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.737	10.738	-0.001	85	1570058	10.0	
113 Chlorobenzene	112		10.762				ND	
114 1,1,1,2-Tetrachloroethane	131		10.853				ND	7
115 Ethylbenzene	91		10.859				ND	7
116 m-Xylene & p-Xylene	106		10.981				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.323				ND	7
119 Styrene	104		11.341				ND	7
120 Bromoform	173		11.500				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.786	0.006	94	720580	8.99	
126 1,1,2,2-Tetrachloroethane	83		11.902				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.694	12.688	0.006	94	885560	10.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_HP25_ISSS_00070

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X20.D

Injection Date: 01-Jun-2023 03:49:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-127761-A-8

Lab Sample ID: 410-127761-8

Worklist Smp#: 21

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

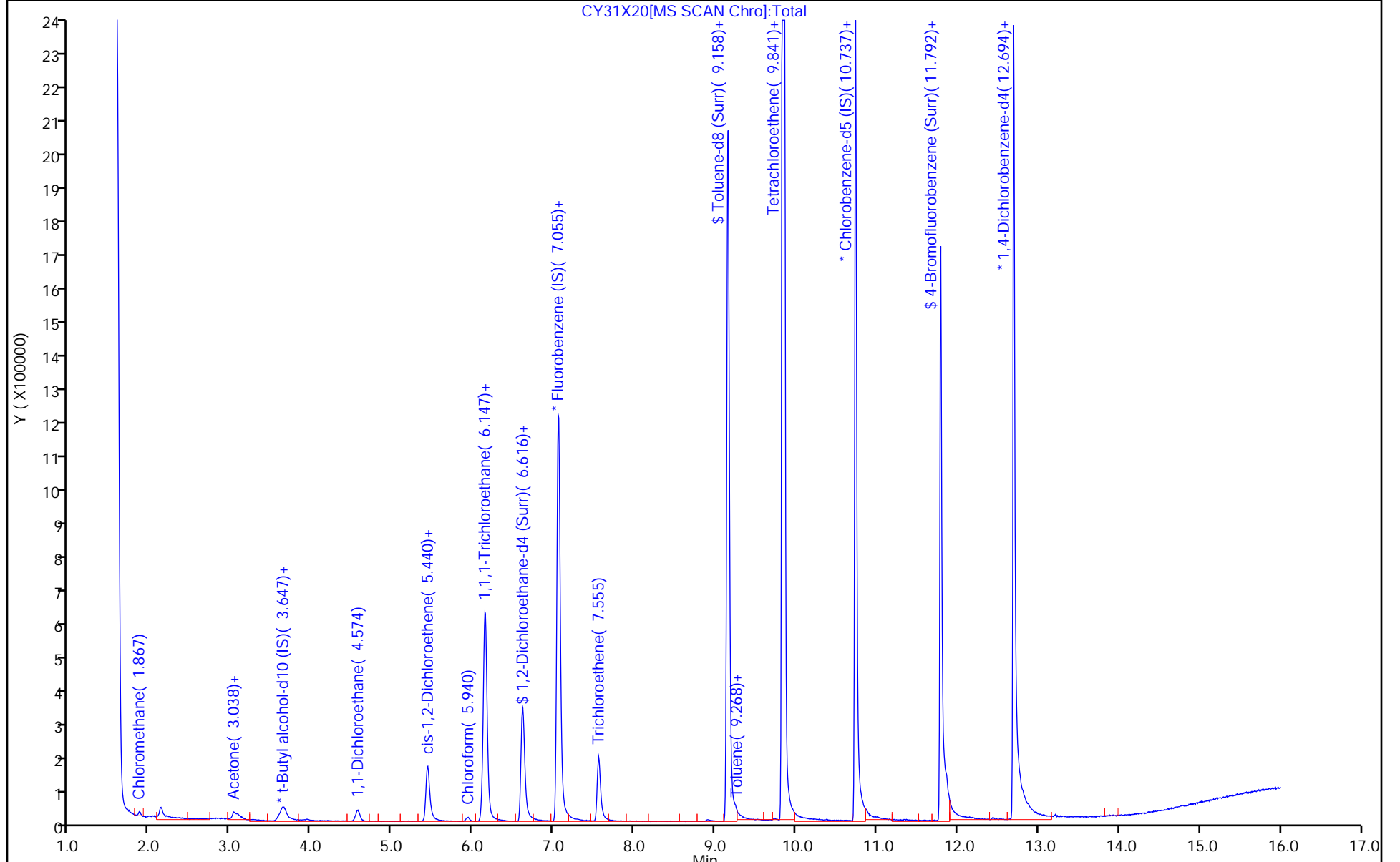
ALS Bottle#: 20

Method: MSV_10193_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\10193\20230531-85466.b\CY31X20.D
 Lims ID: 410-127761-A-8
 Client ID: HD-COD-SW-17-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 03:49:30 ALS Bottle#: 20 Worklist Smp#: 21
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-021
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 15:17:55 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp

Date: 01-Jun-2023 16:06:22

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.31	93.13
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.0	100.00
\$ 83 Toluene-d8 (Surr)	10.0	10.4	103.83
\$ 124 4-Bromofluorobenzene (Surr)	10.0	8.99	89.91

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X20.D

Injection Date: 01-Jun-2023 03:49:30

Instrument ID: 10193

Lims ID: 410-127761-A-8

Lab Sample ID: 410-127761-8

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

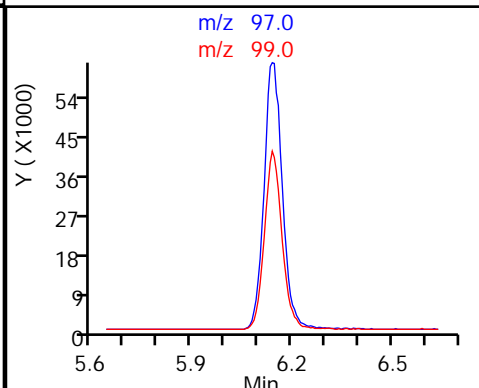
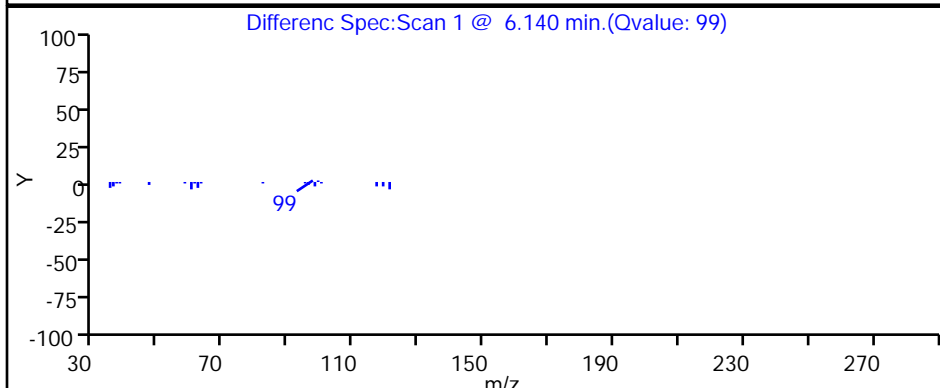
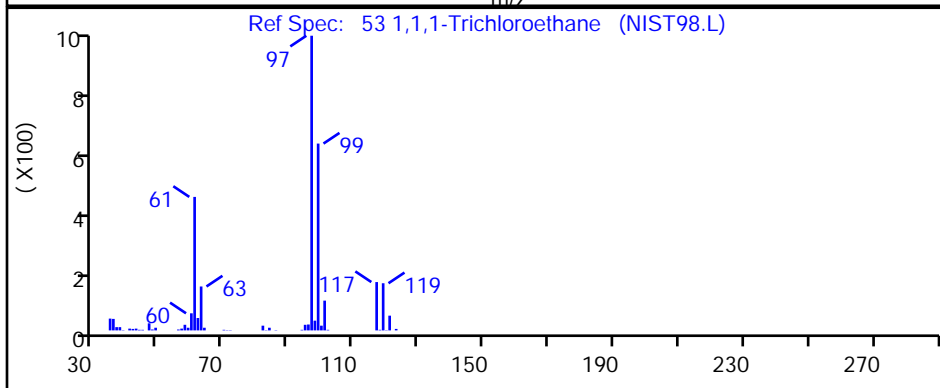
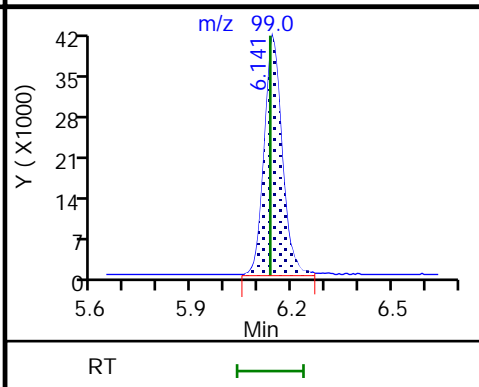
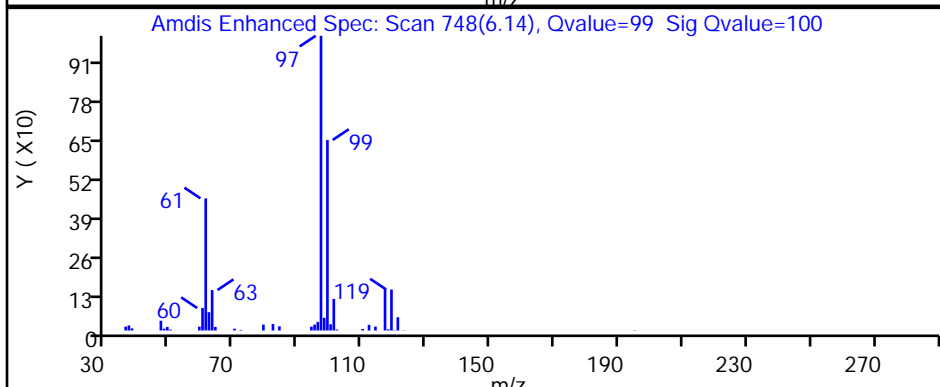
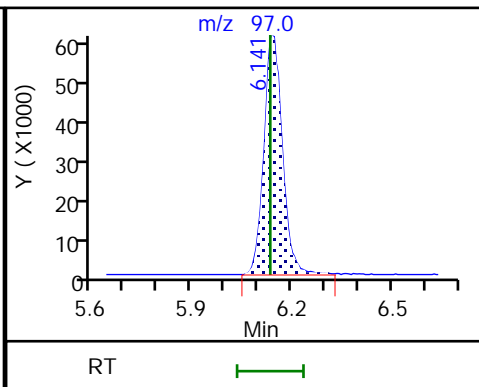
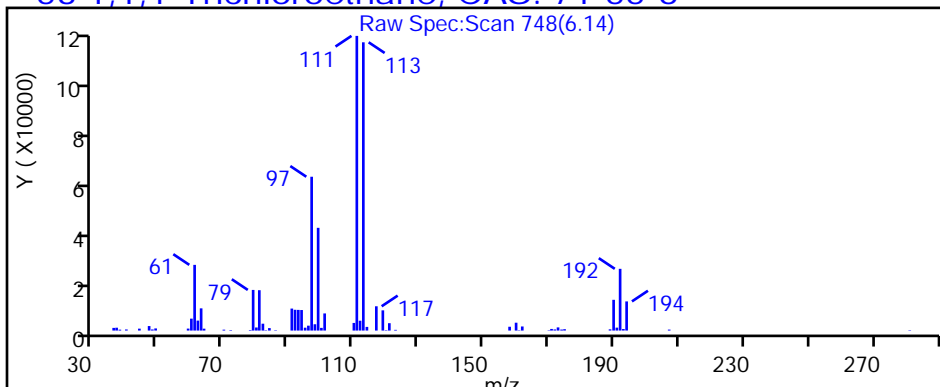
Method: MSV_10193_25mL

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\10193\20230531-85466.b\CY31X20.D

Injection Date: 01-Jun-2023 03:49:30

Instrument ID: 10193

Lims ID: 410-127761-A-8

Lab Sample ID: 410-127761-8

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

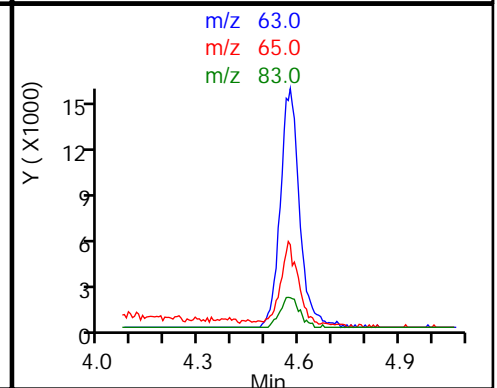
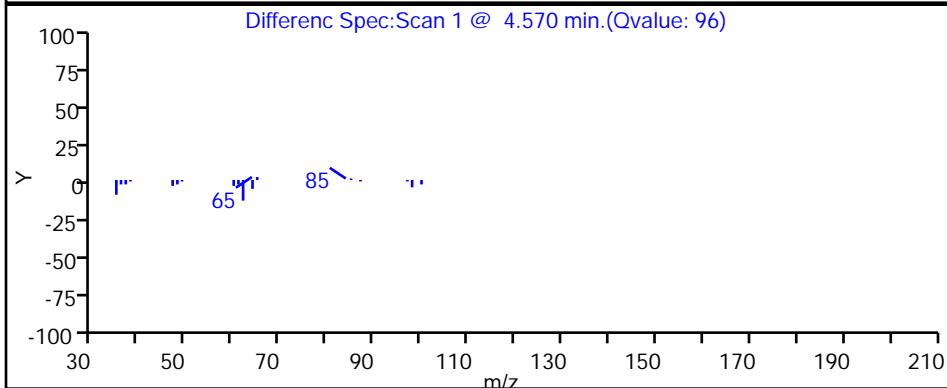
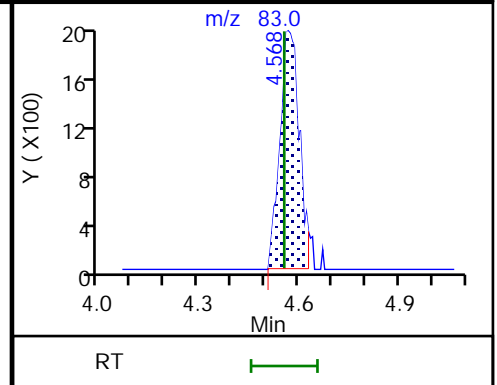
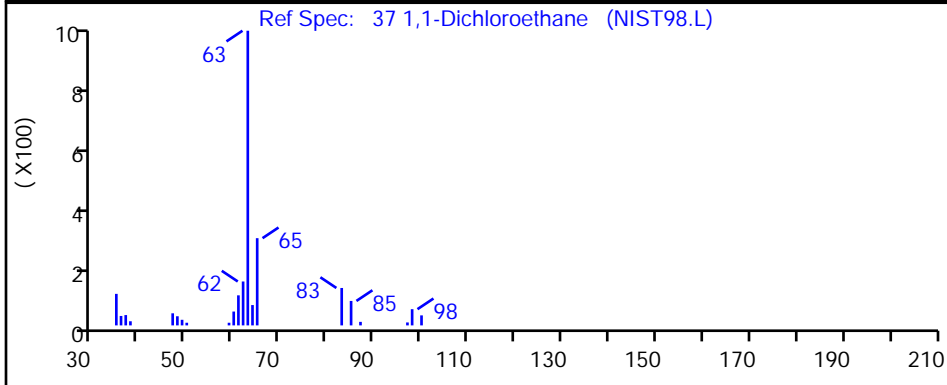
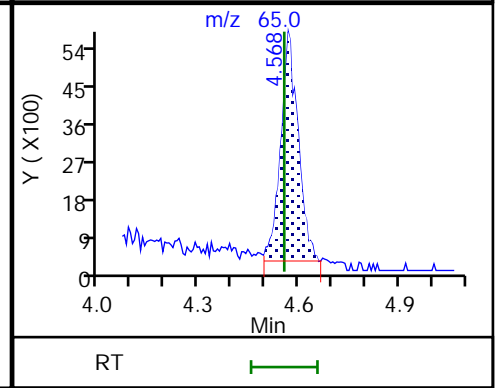
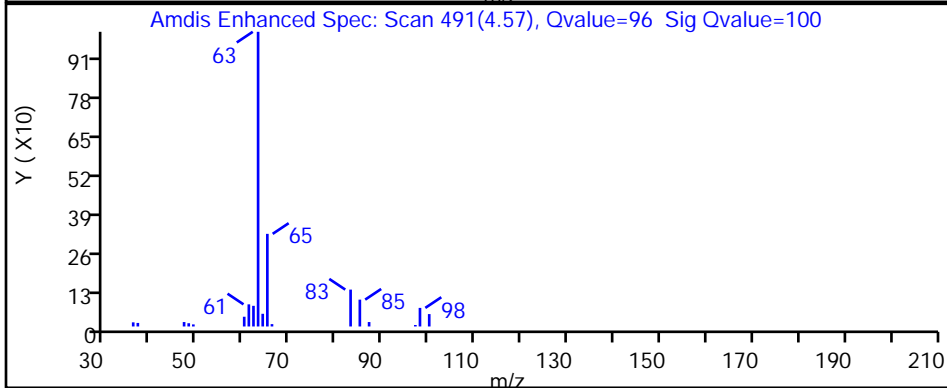
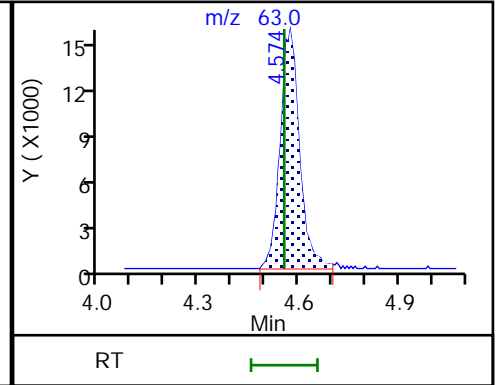
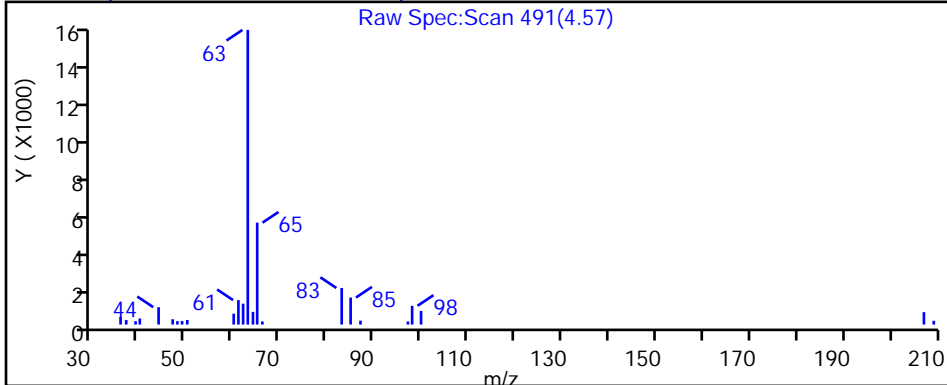
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

37 1,1-Dichloroethane, CAS: 75-34-3



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X20.D

Injection Date: 01-Jun-2023 03:49:30

Instrument ID: 10193

Lims ID: 410-127761-A-8

Lab Sample ID: 410-127761-8

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

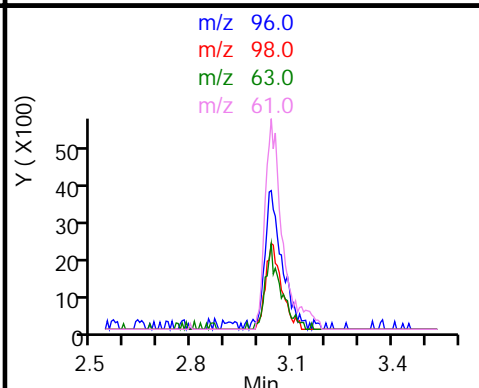
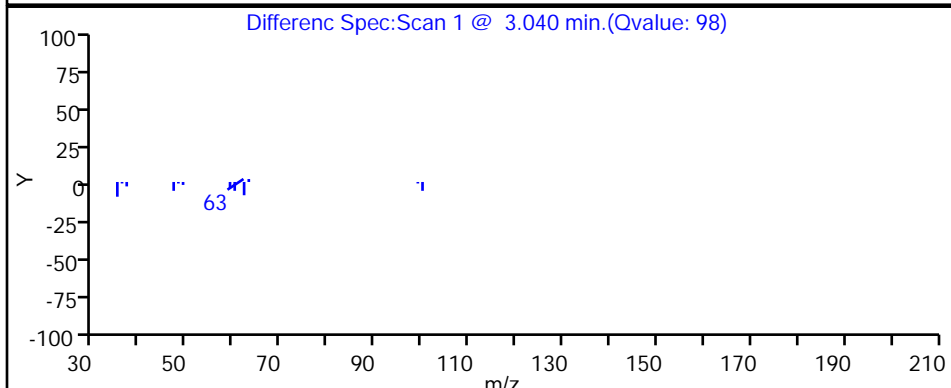
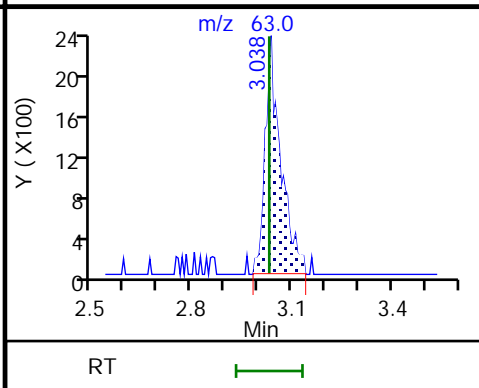
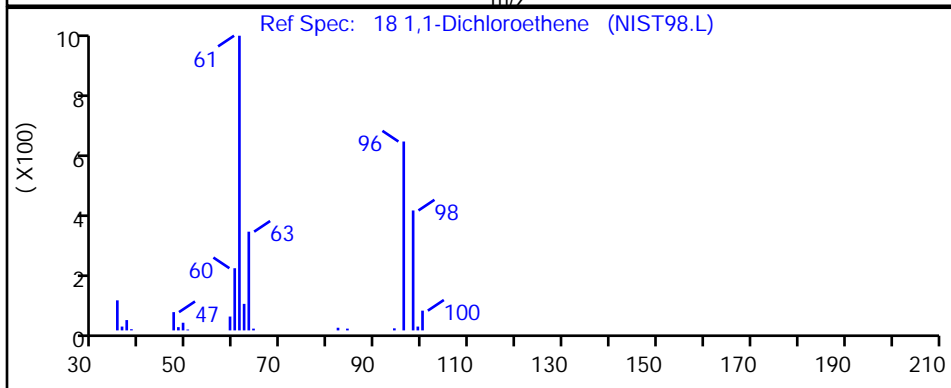
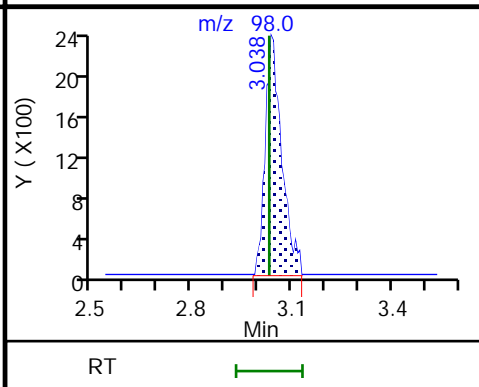
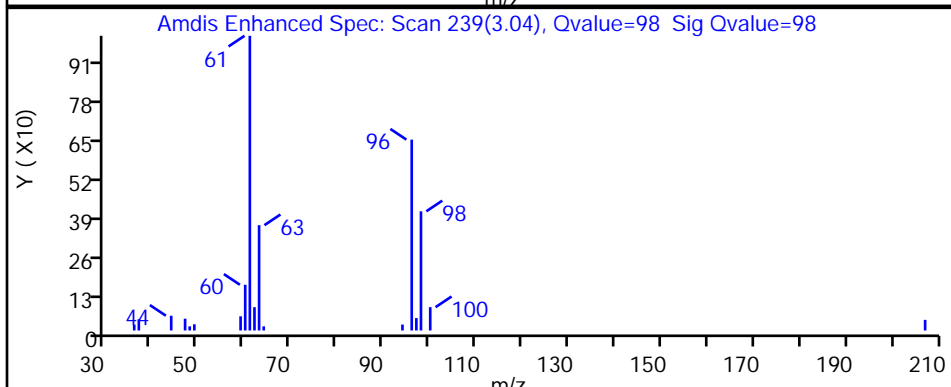
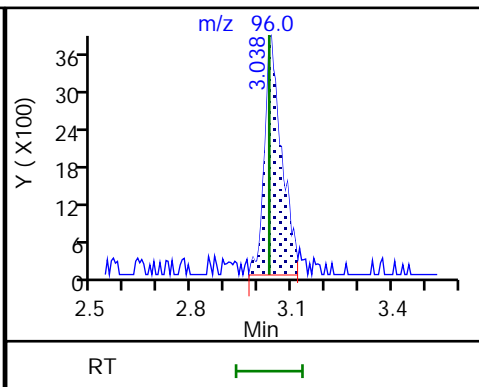
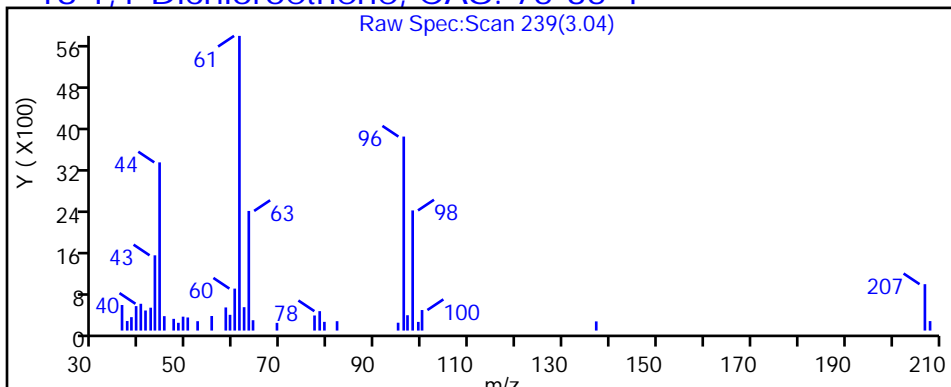
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

18 1,1-Dichloroethene, CAS: 75-35-4



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X20.D

Injection Date: 01-Jun-2023 03:49:30

Instrument ID: 10193

Lims ID: 410-127761-A-8

Lab Sample ID: 410-127761-8

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

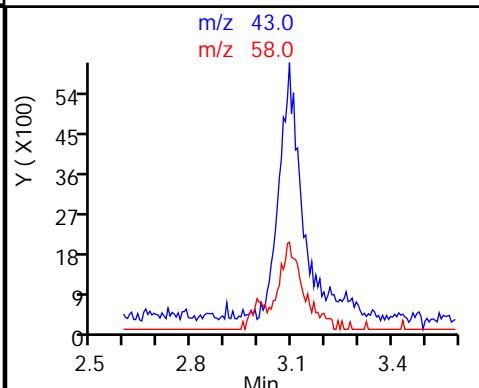
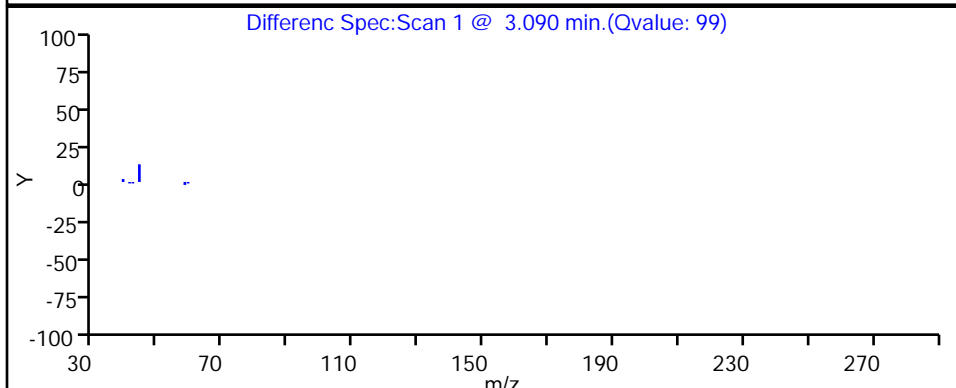
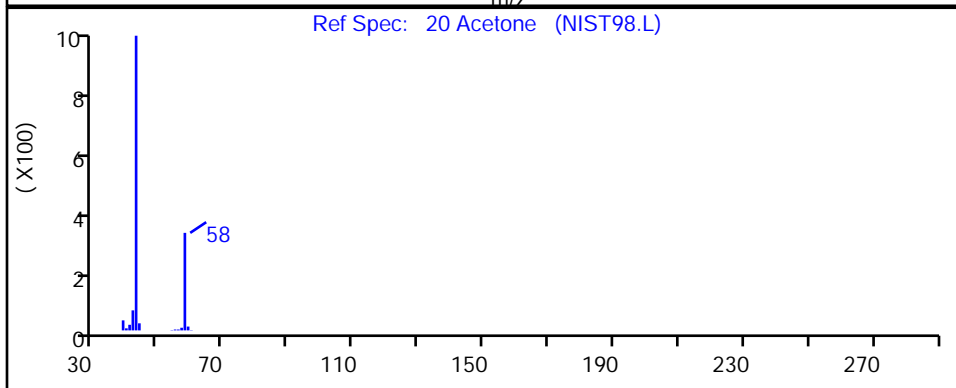
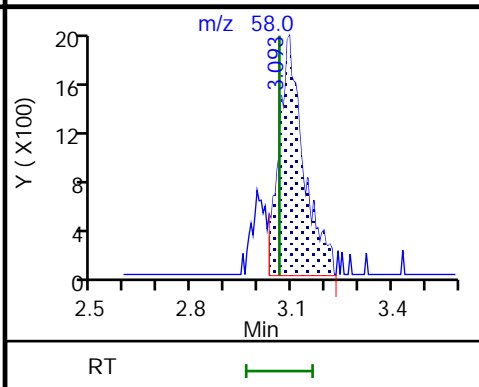
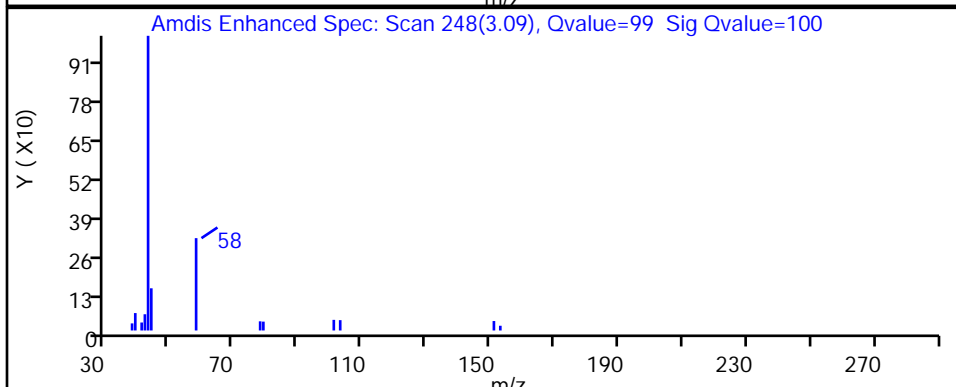
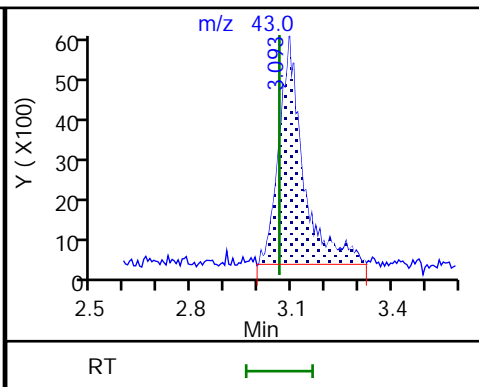
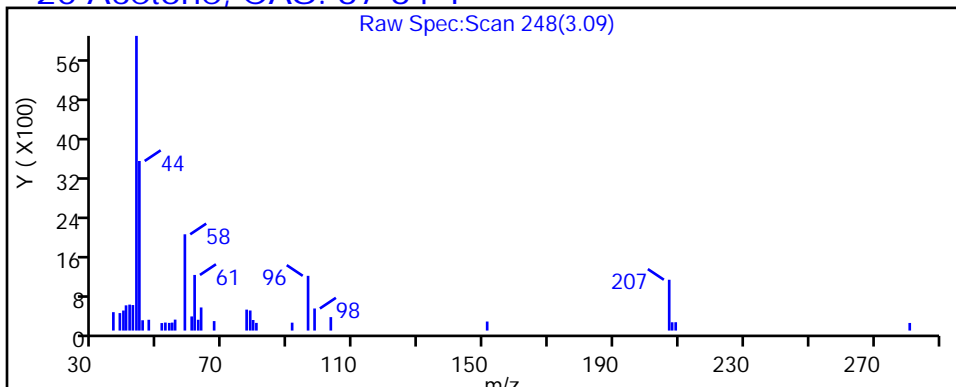
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

20 Acetone, CAS: 67-64-1



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X20.D

Injection Date: 01-Jun-2023 03:49:30

Instrument ID: 10193

Lims ID: 410-127761-A-8

Lab Sample ID: 410-127761-8

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

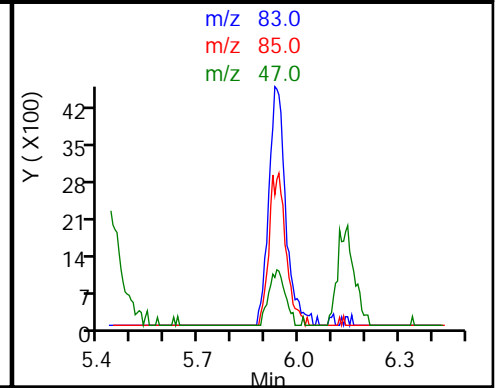
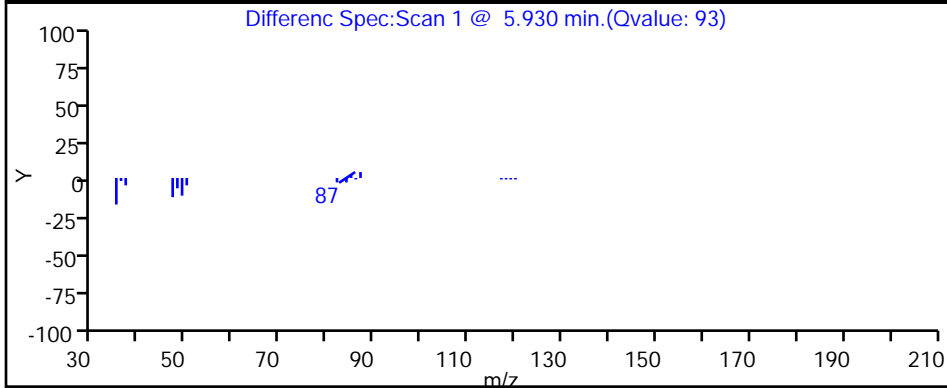
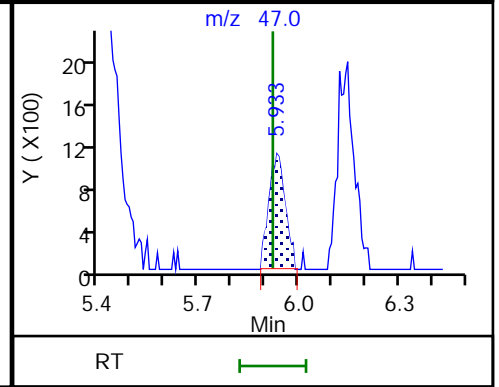
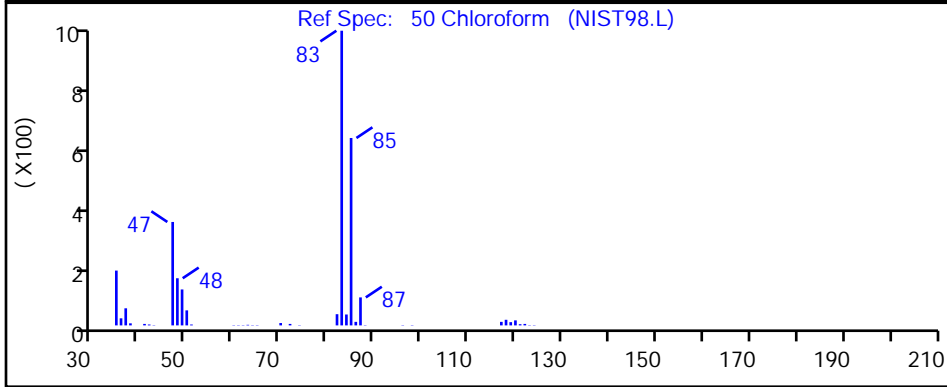
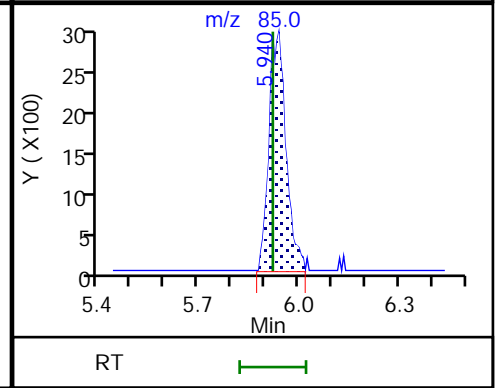
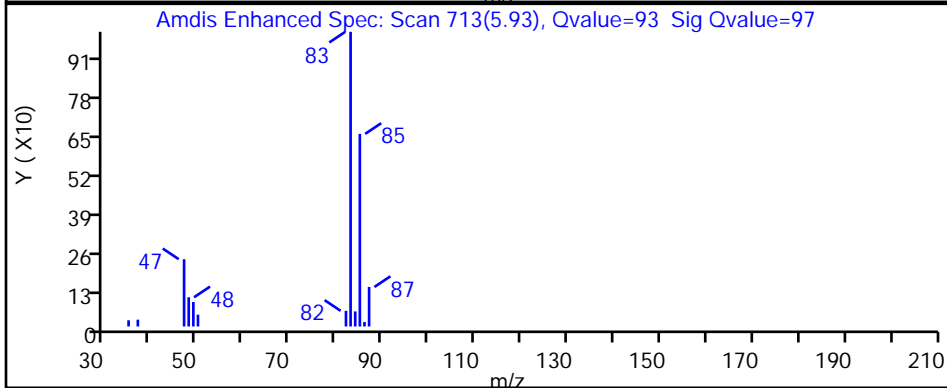
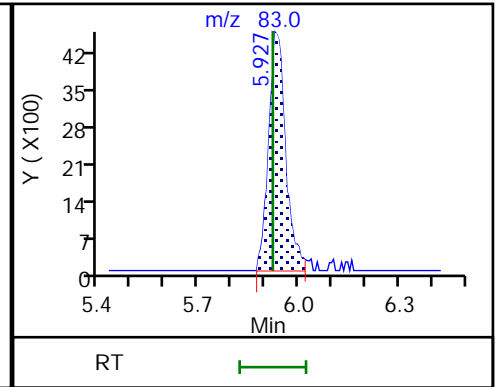
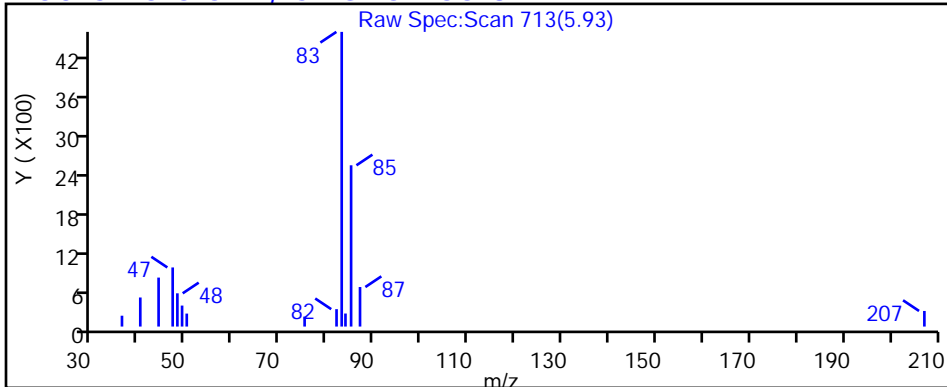
Method: MSV_10193_25mL

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\10193\20230531-85466.b\CY31X20.D

Injection Date: 01-Jun-2023 03:49:30

Instrument ID: 10193

Lims ID: 410-127761-A-8

Lab Sample ID: 410-127761-8

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

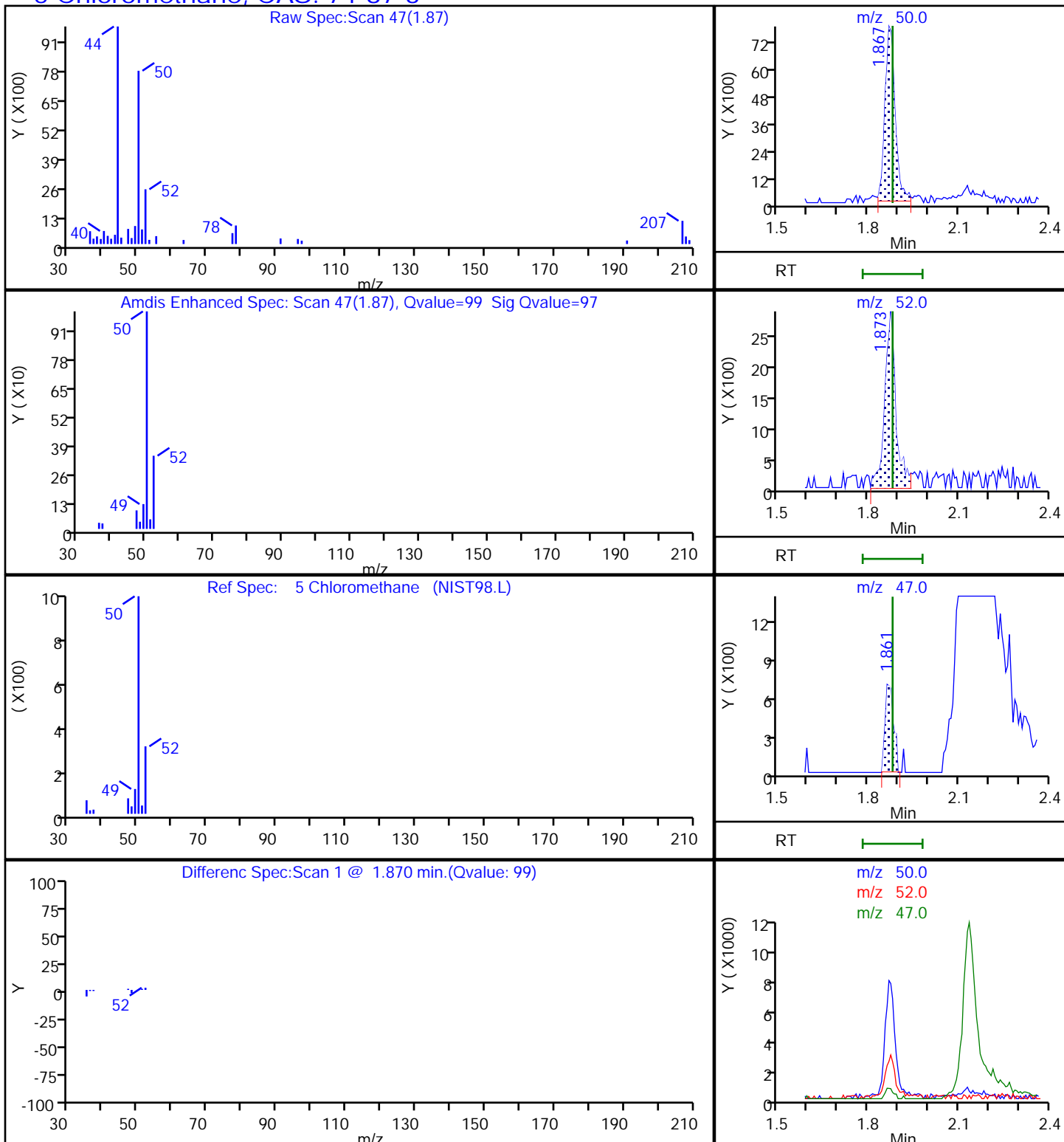
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

5 Chloromethane, CAS: 74-87-3



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X20.D

Injection Date: 01-Jun-2023 03:49:30

Instrument ID: 10193

Lims ID: 410-127761-A-8

Lab Sample ID: 410-127761-8

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

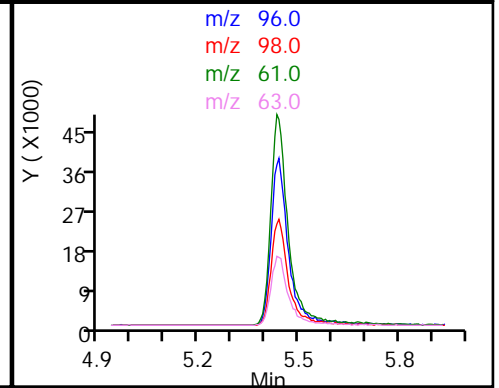
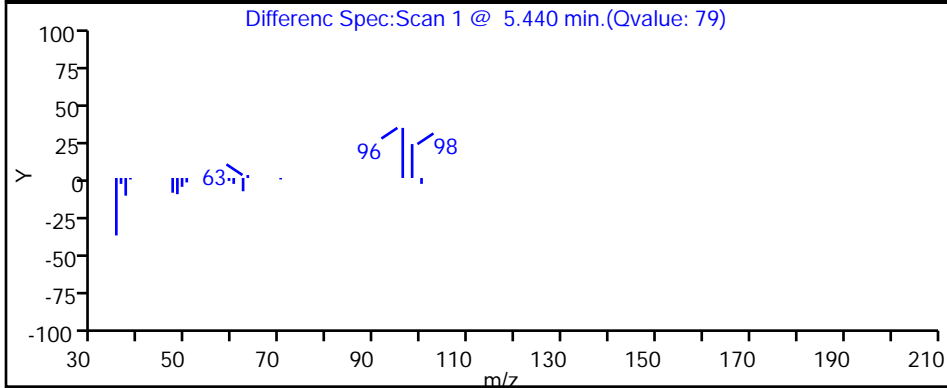
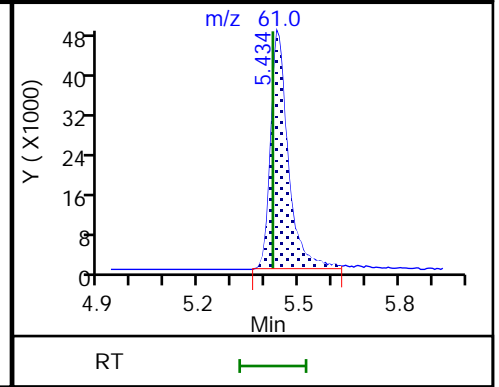
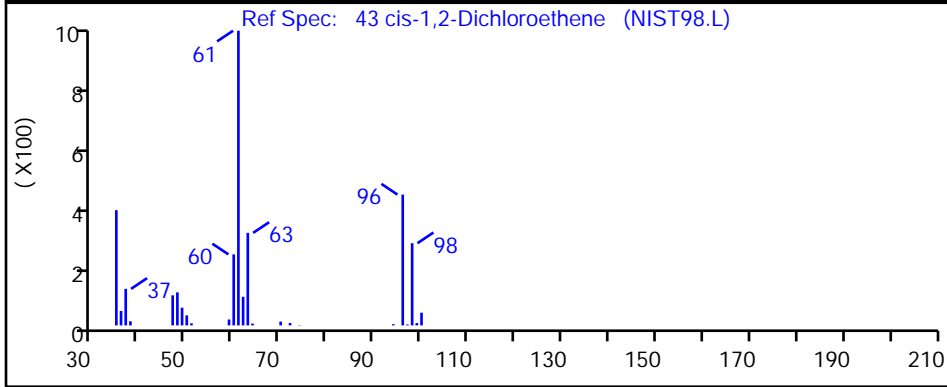
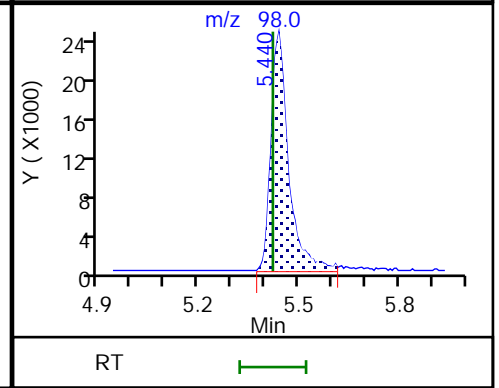
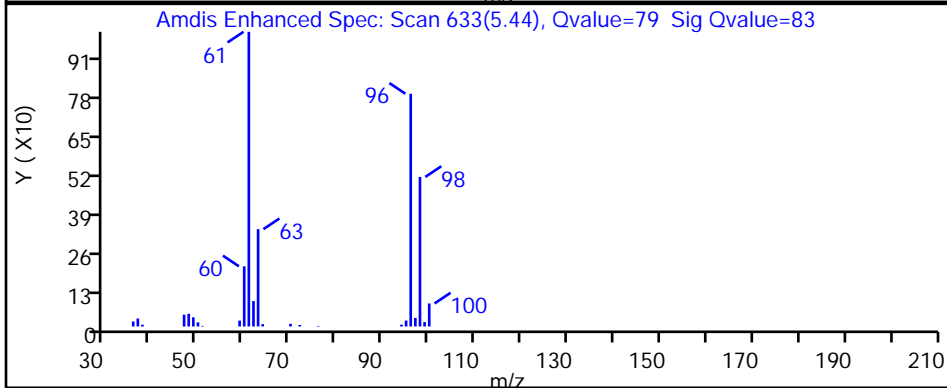
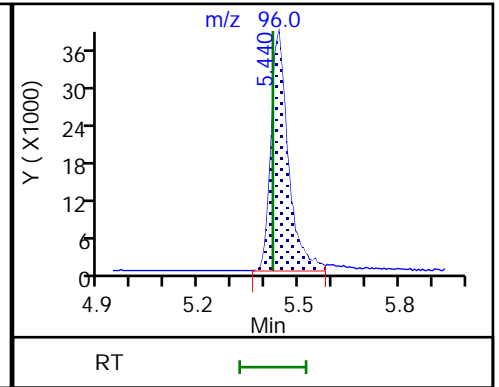
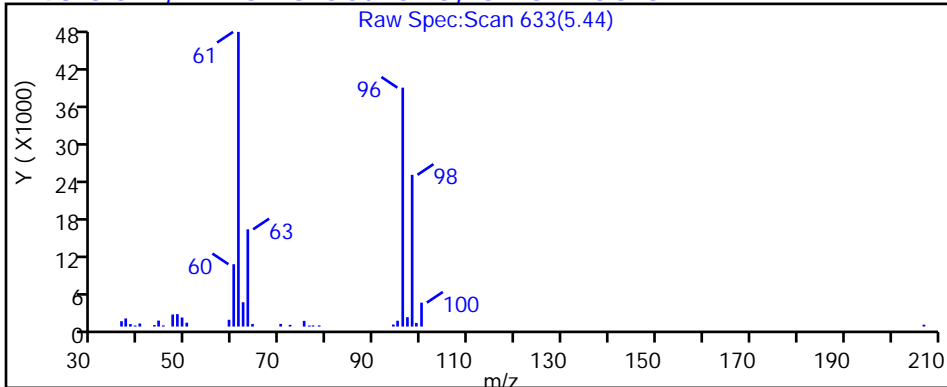
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X20.D

Injection Date: 01-Jun-2023 03:49:30

Instrument ID: 10193

Lims ID: 410-127761-A-8

Lab Sample ID: 410-127761-8

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

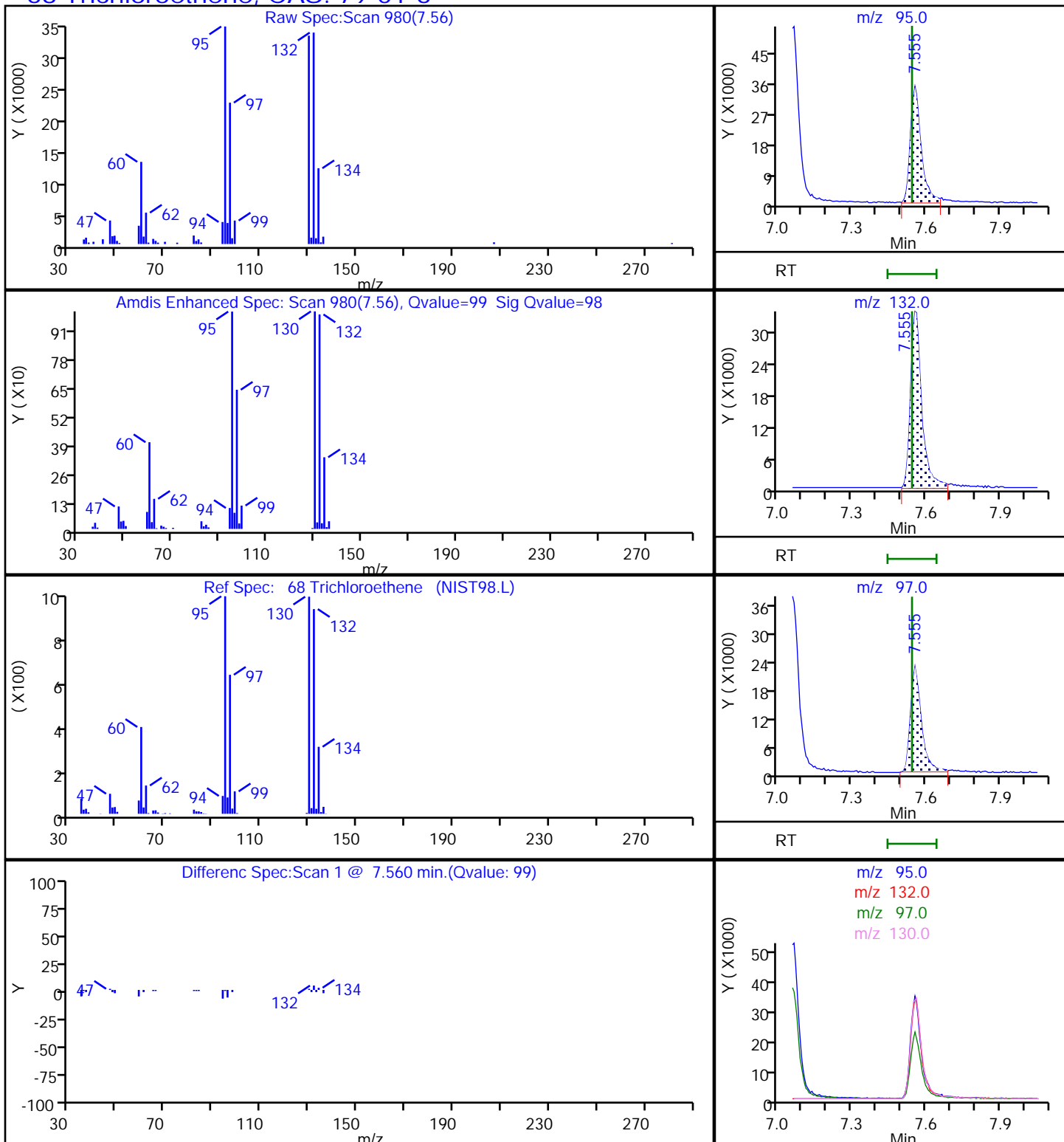
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

68 Trichloroethene, CAS: 79-01-6

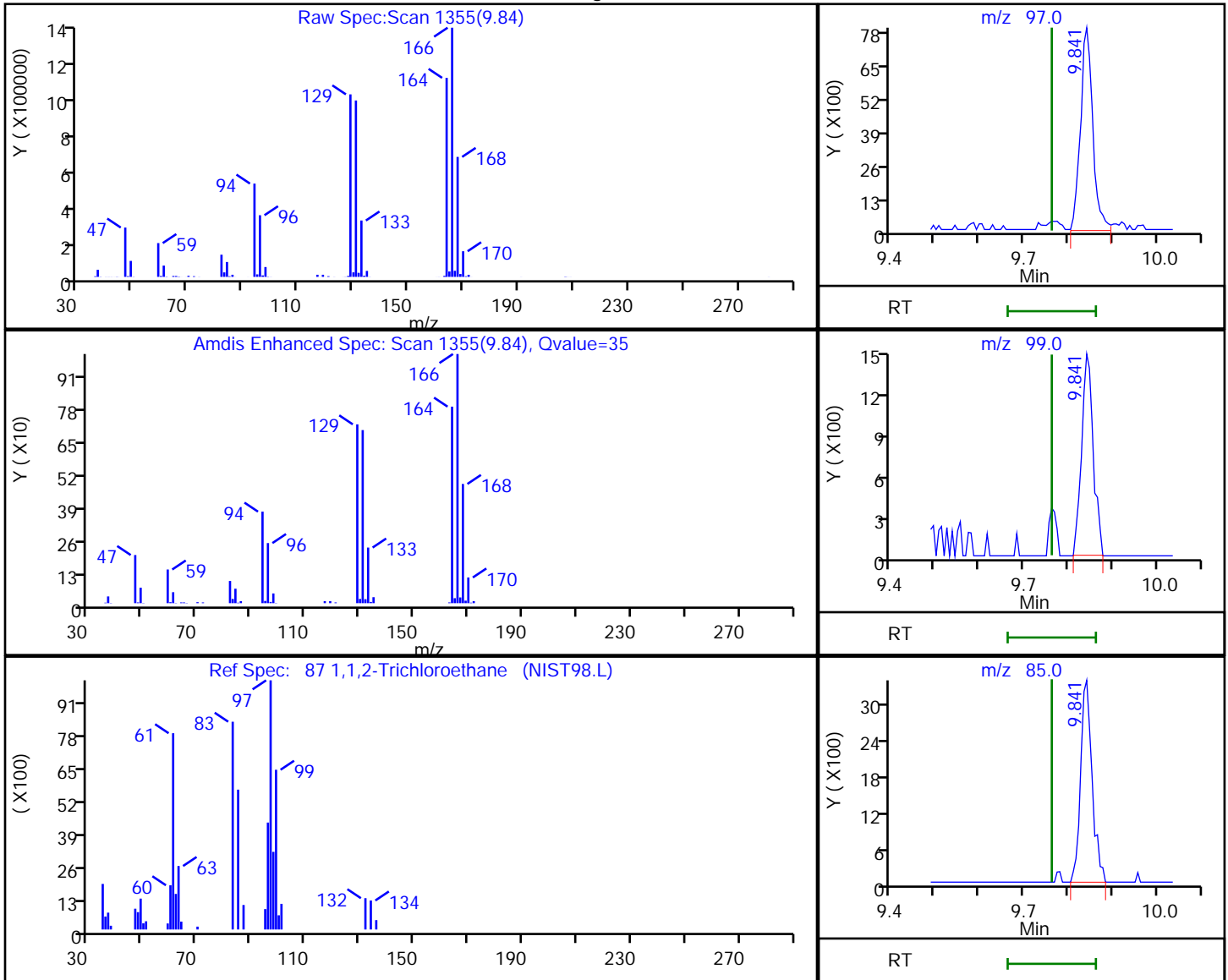


Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X20.D
 Injection Date: 01-Jun-2023 03:49:30 Instrument ID: 10193
 Lims ID: 410-127761-A-8 Lab Sample ID: 410-127761-8
 Client ID: HD-COD-SW-17-0/1-0
 Operator ID: gaw91131 ALS Bottle#: 20 Worklist Smp#: 21
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
 Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

87 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
9.84	97.00	15263	0.354899
9.84	99.00	2716	
9.84	85.00	5999	
9.84	83.00	46221	

Reviewer: kaewrungrueangp, 01-Jun-2023 15:17:47 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.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-8 DL

Matrix: Water

Lab File ID: CU01X18.D

Analysis Method: 8260D

Date Collected: 05/23/2023 10:15

Sample wt/vol: 25 (mL)

Date Analyzed: 06/02/2023 02:40

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.: 382118

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	35		5.0	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	91		80-120
2037-26-5	Toluene-d8 (Surr)	110		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01X18.D
 Lims ID: 410-127761-B-8 DL
 Client ID: HD-COD-SW-17-0/1-0
 Sample Type: Client
 Inject. Date: 02-Jun-2023 02:40:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 25.000 mL Dil. Factor: 10.0000
 Sample Info: 410-0085572-019
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 05-Jun-2023 10:23:53 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1679

First Level Reviewer: pongasawatp

Date: 05-Jun-2023 10:24:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.892				ND	7
6 Vinyl chloride	62		1.989				ND	7
9 Bromomethane	94		2.276				ND	7
10 Chloroethane	64		2.337				ND	
18 1,1-Dichloroethene	96		3.044				ND	7
20 Acetone	43	3.099	3.074	0.025	43	6341	0.8714	
25 Carbon disulfide	76		3.294				ND	7
30 Methylene Chloride	84		3.599				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.653	3.647	0.006	96	152717	50.0	
34 Methyl tert-butyl ether	73		3.940				ND	
35 trans-1,2-Dichloroethene	96		3.940				ND	
37 1,1-Dichloroethane	63	4.586	4.568	0.018	91	5772	0.0528	
42 2-Butanone (MEK)	43		5.421				ND	
43 cis-1,2-Dichloroethene	96	5.458	5.428	0.030	79	13924	0.2107	
48 Chlorobromomethane	128		5.769				ND	
50 Chloroform	83		5.927				ND	7
53 1,1,1-Trichloroethane	97	6.147	6.147	0.000	37	20299	0.2104	
\$ 54 Dibromofluoromethane (Surr)	113	6.153	6.147	0.006	94	461341	9.06	
56 Carbon tetrachloride	117		6.360				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.622	6.616	0.006	100	101060	10.1	
60 Benzene	78		6.635				ND	
61 1,2-Dichloroethane	62		6.720				ND	
* 65 Fluorobenzene (IS)	96	7.061	7.061	0.000	99	1954205	10.0	
68 Trichloroethene	95		7.549				ND	
70 1,2-Dichloropropane	63		7.884				ND	
76 Dichlorobromomethane	83		8.244				ND	
80 cis-1,3-Dichloropropene	75		8.823				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.024				ND	
\$ 83 Toluene-d8 (Surr)	98	9.158	9.152	0.006	93	2020890	11.0	
84 Toluene	92		9.244				ND	7
85 trans-1,3-Dichloropropene	75		9.549				ND	
87 1,1,2-Trichloroethane	97		9.762				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	9.847	9.841	0.006	97	235642	3.51	
106 2-Hexanone	43		10.012				ND	
108 Chlorodibromomethane	129		10.158				ND	
110 Ethylene Dibromide	107		10.274				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.737	10.737	0.000	85	1542700	10.0	
113 Chlorobenzene	112		10.762				ND	
114 1,1,1,2-Tetrachloroethane	131		10.853				ND	
115 Ethylbenzene	91		10.859				ND	
116 m-Xylene & p-Xylene	106		10.981				ND	
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.323				ND	
119 Styrene	104		11.341				ND	
120 Bromoform	173		11.499				ND	7
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.786	0.006	93	717673	9.11	
126 1,1,2,2-Tetrachloroethane	83		11.902				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.694	12.688	0.006	94	856806	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP25_ISSS_00071

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01X18.D

Injection Date: 02-Jun-2023 02:40:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-127761-B-8 DL

Lab Sample ID: 410-127761-8

Worklist Smp#: 19

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

Purge Vol: 25.000 mL

Dil. Factor: 10.0000

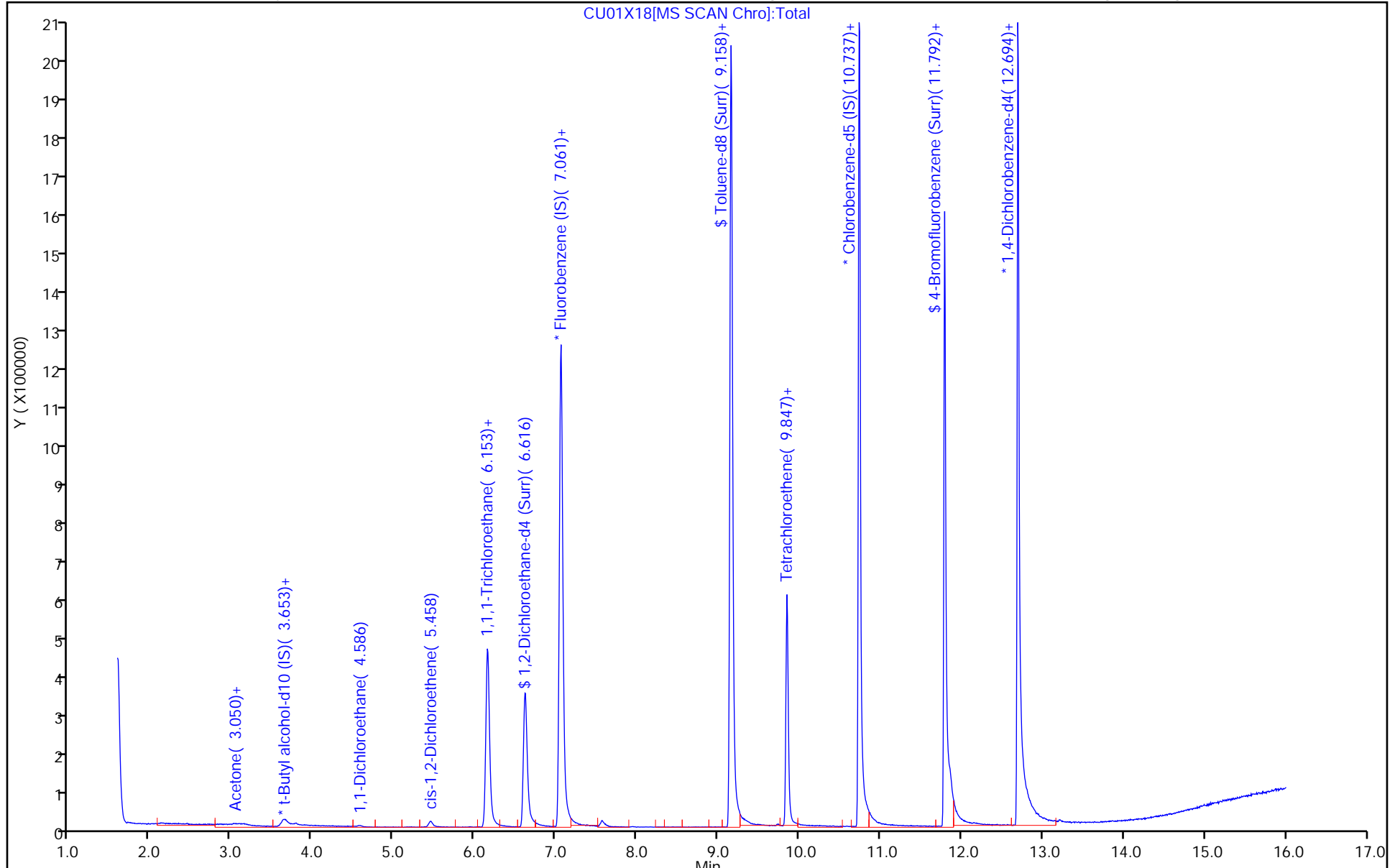
ALS Bottle#: 18

Method: MSV_10193_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\10193\20230601-85572.b\CU01X18.D
 Lims ID: 410-127761-B-8 DL
 Client ID: HD-COD-SW-17-0/1-0
 Sample Type: Client
 Inject. Date: 02-Jun-2023 02:40:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 25.000 mL Dil. Factor: 10.0000
 Sample Info: 410-0085572-019
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 05-Jun-2023 10:23:53 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1679

First Level Reviewer: pongsawatp

Date: 05-Jun-2023 10:24:37

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.06	90.65
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	100.75
\$ 83 Toluene-d8 (Surr)	10.0	11.0	109.68
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.11	91.13

Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01X18.D

Injection Date: 02-Jun-2023 02:40:30

Instrument ID: 10193

Lims ID: 410-127761-B-8 DL

Lab Sample ID: 410-127761-8

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

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

Dil. Factor: 10.0000

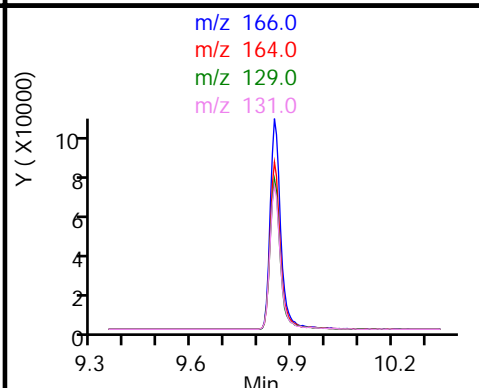
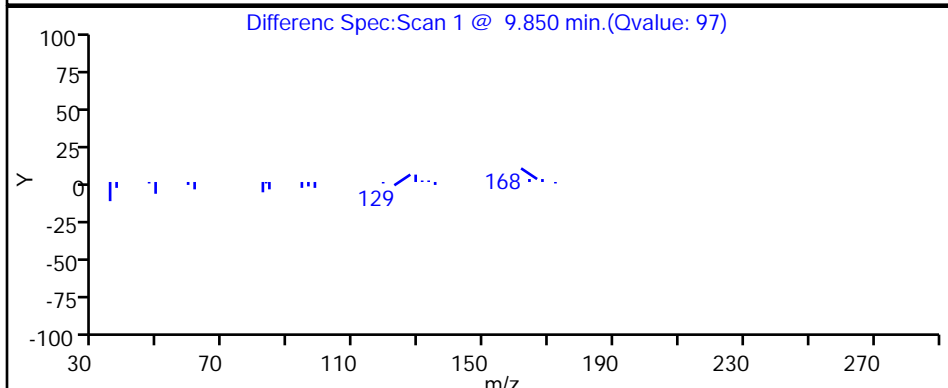
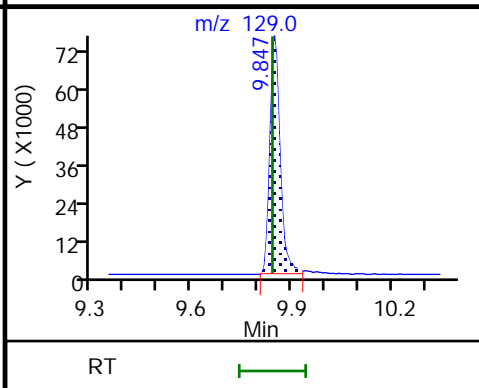
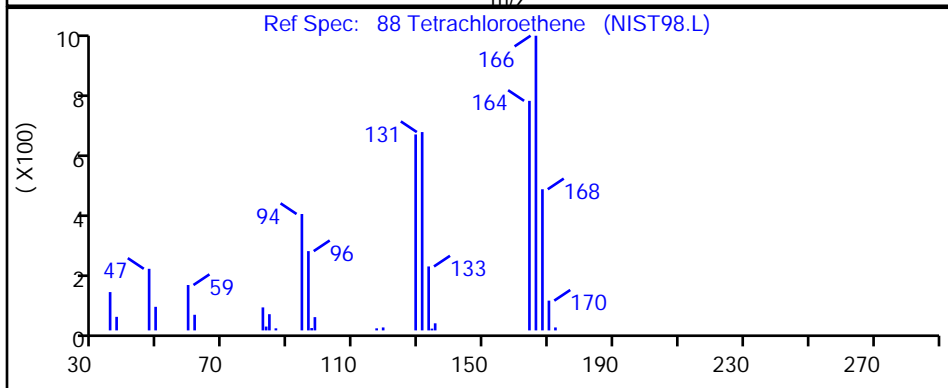
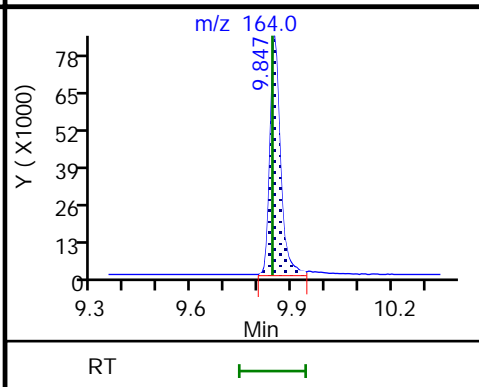
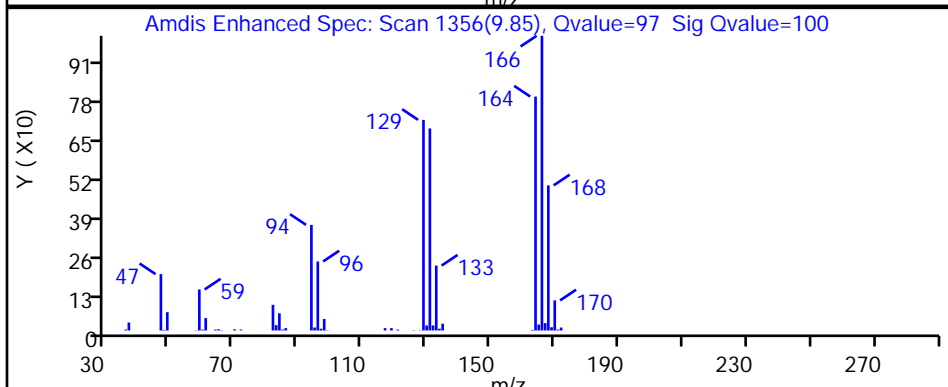
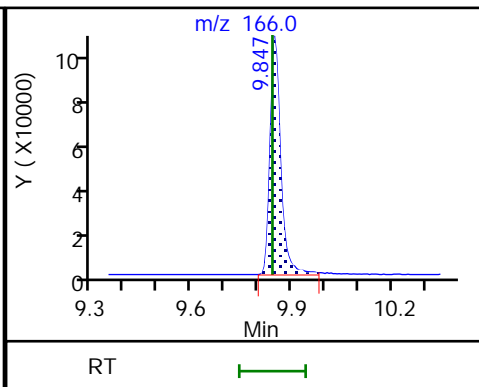
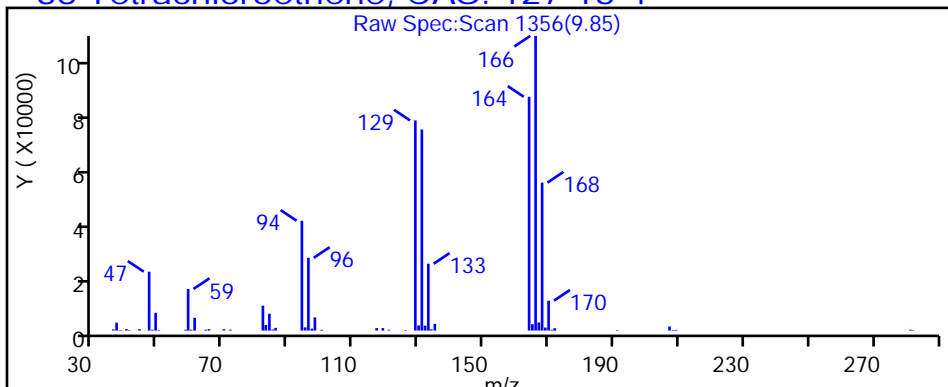
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

88 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-9

Matrix: Water

Lab File ID: CY31X21.D

Analysis Method: 8260D

Date Collected: 05/23/2023 10:56

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 04:11

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.: 381658

Units: ug/L

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	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	3.3	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.12	J	0.50	0.090
74-87-3	Chloromethane	0.13	J	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.21	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	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.26	J	0.50	0.20
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.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-9

Matrix: Water

Lab File ID: CY31X21.D

Analysis Method: 8260D

Date Collected: 05/23/2023 10:56

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 04:11

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.: 381658

Units: ug/L

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	0.18	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)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		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\10193\20230531-85466.b\CY31X21.D
 Lims ID: 410-127761-A-9
 Client ID: HD-COD-SW-26-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 04:11:30 ALS Bottle#: 21 Worklist Smp#: 22
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-022
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 02:53:53 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp

Date:

01-Jun-2023 16:06:59

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.867	1.879	-0.012	97	10775	0.1321	
6 Vinyl chloride	62		1.983				ND	7
9 Bromomethane	94		2.264				ND	
10 Chloroethane	64		2.325				ND	
18 1,1-Dichloroethene	96		3.032				ND	7
20 Acetone	43	3.093	3.062	0.031	99	28301	3.28	
25 Carbon disulfide	76	3.300	3.276	0.024	98	6453	0.0395	
30 Methylene Chloride	84		3.580				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.641	3.641	0.000	97	180882	50.0	
34 Methyl tert-butyl ether	73		3.928				ND	7
35 trans-1,2-Dichloroethene	96		3.934				ND	
37 1,1-Dichloroethane	63		4.556				ND	
42 2-Butanone (MEK)	43		5.409				ND	7
43 cis-1,2-Dichloroethene	96	5.446	5.421	0.025	80	13086	0.2084	
48 Chlorobromomethane	128		5.757				ND	
50 Chloroform	83	5.934	5.921	0.013	94	12039	0.1158	
53 1,1,1-Trichloroethane	97		6.135				ND	
\$ 54 Dibromofluoromethane (Surr)	113	6.153	6.141	0.012	94	449573	9.30	
56 Carbon tetrachloride	117		6.348				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.604	0.012	100	91021	9.55	
60 Benzene	78		6.629				ND	7
61 1,2-Dichloroethane	62		6.714				ND	
* 65 Fluorobenzene (IS)	96	7.061	7.049	0.012	99	1856744	10.0	
68 Trichloroethene	95	7.567	7.543	0.024	98	11302	0.1796	
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.244				ND	7
80 cis-1,3-Dichloropropene	75		8.817				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.024				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.159	9.152	0.007	93	1978963	10.5	
84 Toluene	92	9.256	9.238	0.018	97	10201	0.0700	
85 trans-1,3-Dichloropropene	75		9.543				ND	
87 1,1,2-Trichloroethane	97		9.762				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	9.848	9.841	0.007	97	17904	0.2600	
106 2-Hexanone	43		10.006				ND	7
108 Chlorodibromomethane	129		10.158				ND	
110 Ethylene Dibromide	107		10.268				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.738	10.738	0.000	85	1583360	10.0	
113 Chlorobenzene	112		10.762				ND	
114 1,1,1,2-Tetrachloroethane	131		10.853				ND	
115 Ethylbenzene	91		10.859				ND	7
116 m-Xylene & p-Xylene	106		10.981				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.323				ND	7
119 Styrene	104		11.341				ND	7
120 Bromoform	173		11.500				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.786	0.006	94	730499	9.04	
126 1,1,2,2-Tetrachloroethane	83		11.902				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.695	12.688	0.006	94	876755	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP25_ISSS_00070

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X21.D

Injection Date: 01-Jun-2023 04:11:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-127761-A-9

Lab Sample ID: 410-127761-9

Worklist Smp#: 22

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

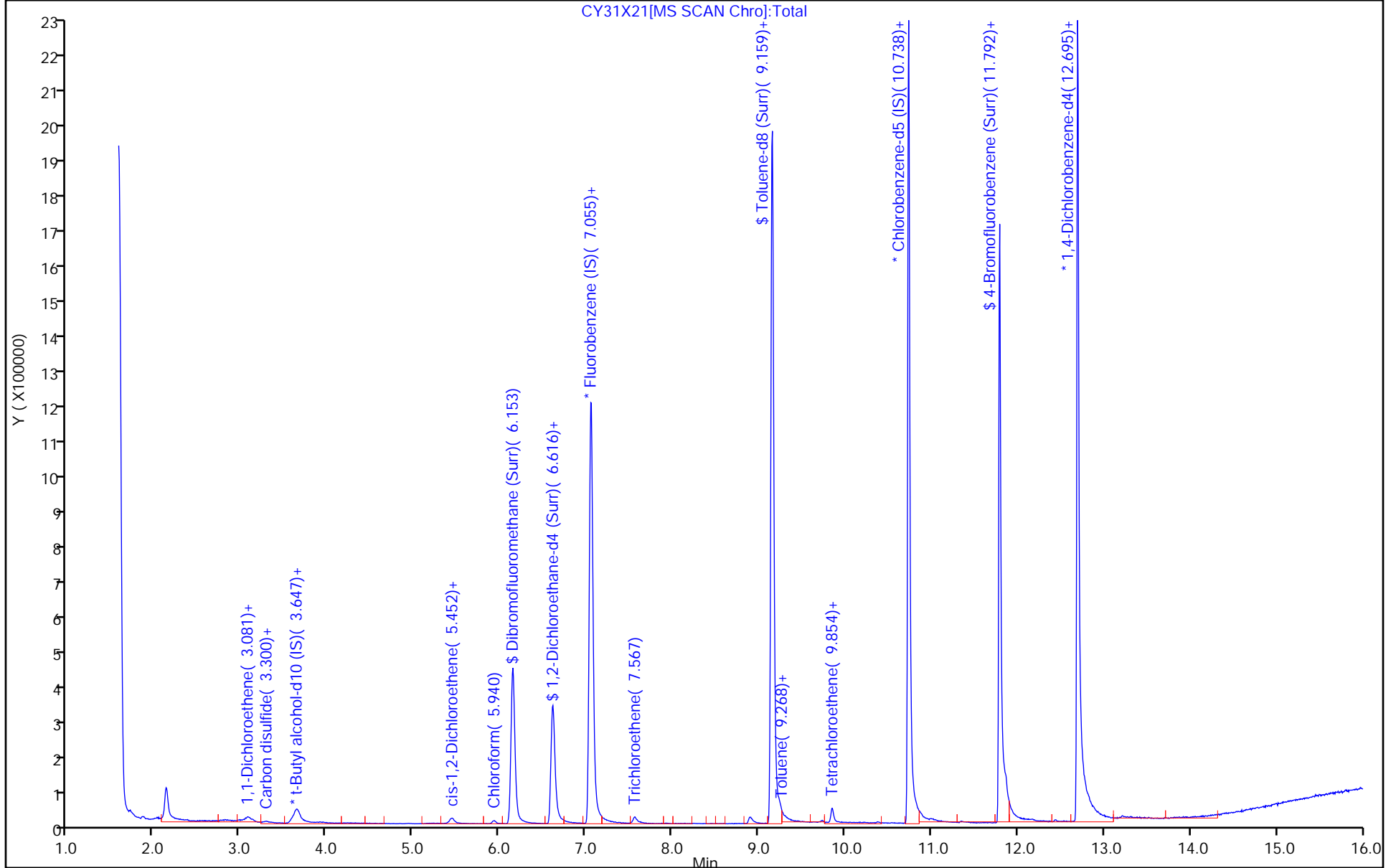
ALS Bottle#: 21

Method: MSV_10193_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\10193\20230531-85466.b\CY31X21.D
 Lims ID: 410-127761-A-9
 Client ID: HD-COD-SW-26-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 04:11:30 ALS Bottle#: 21 Worklist Smp#: 22
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-022
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 02:53:53 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp

Date: 01-Jun-2023 16:06:59

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.30	92.97
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.55	95.51
\$ 83 Toluene-d8 (Surr)	10.0	10.5	104.64
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.04	90.38

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X21.D

Injection Date: 01-Jun-2023 04:11:30

Instrument ID: 10193

Lims ID: 410-127761-A-9

Lab Sample ID: 410-127761-9

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

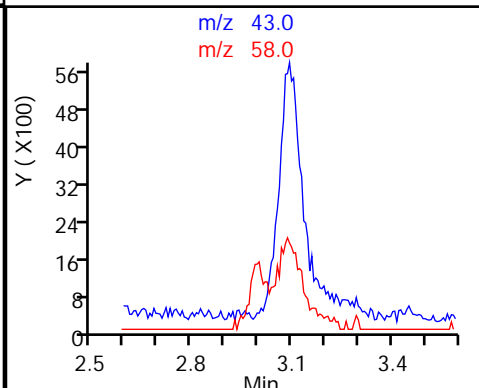
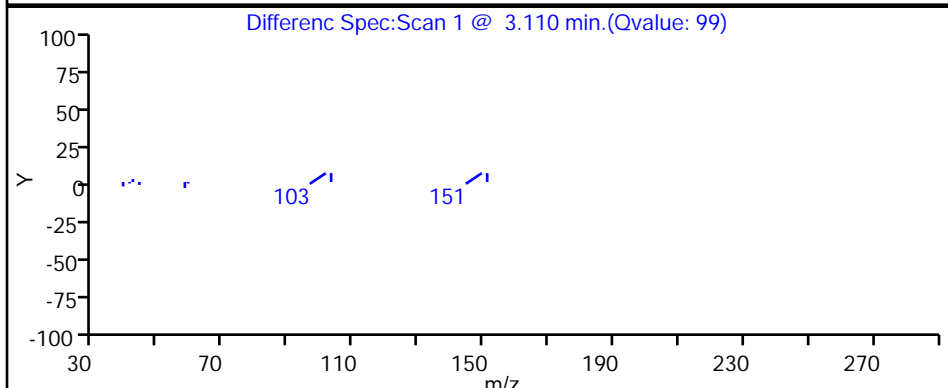
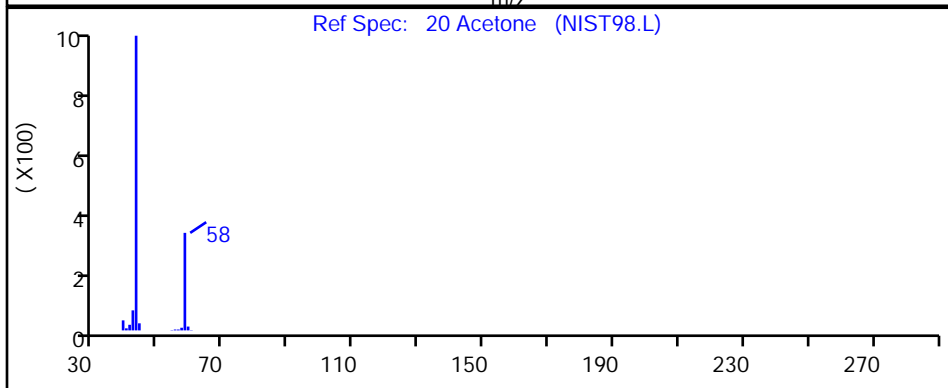
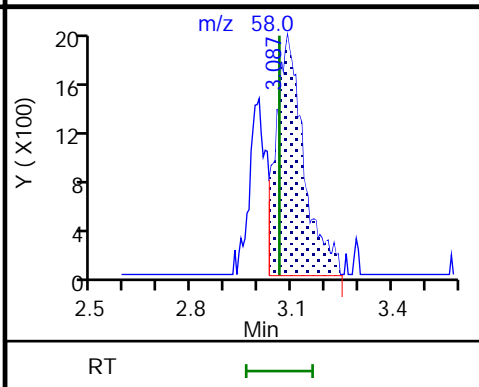
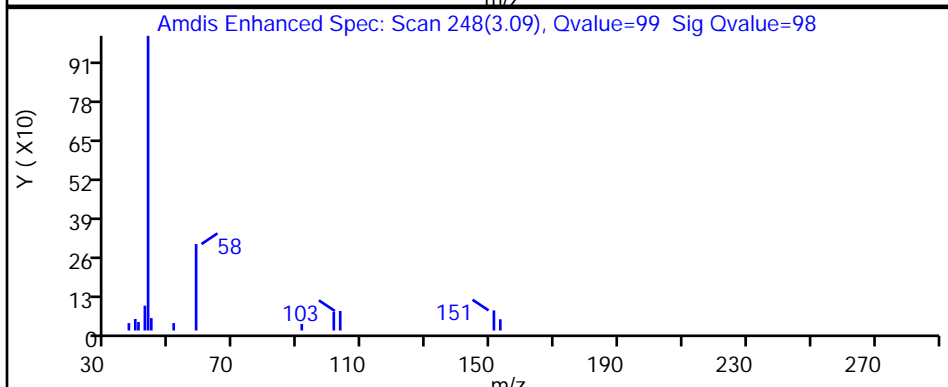
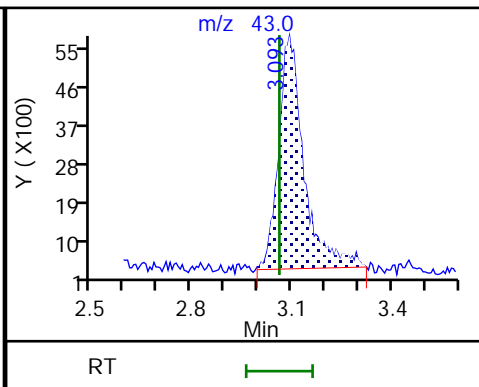
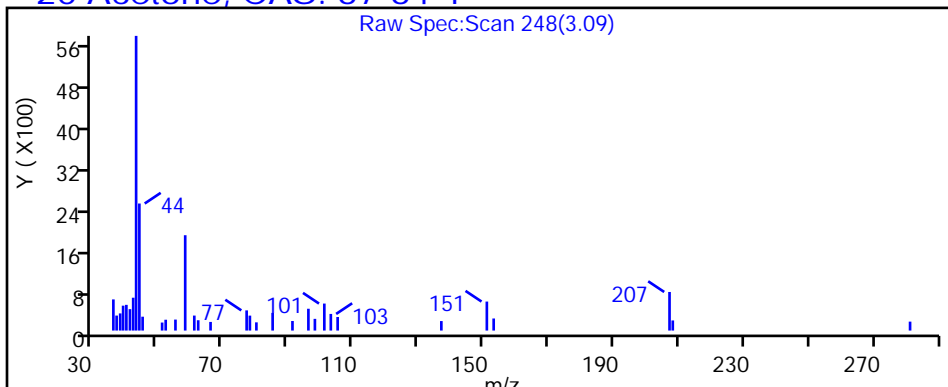
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

20 Acetone, CAS: 67-64-1



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X21.D

Injection Date: 01-Jun-2023 04:11:30

Instrument ID: 10193

Lims ID: 410-127761-A-9

Lab Sample ID: 410-127761-9

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

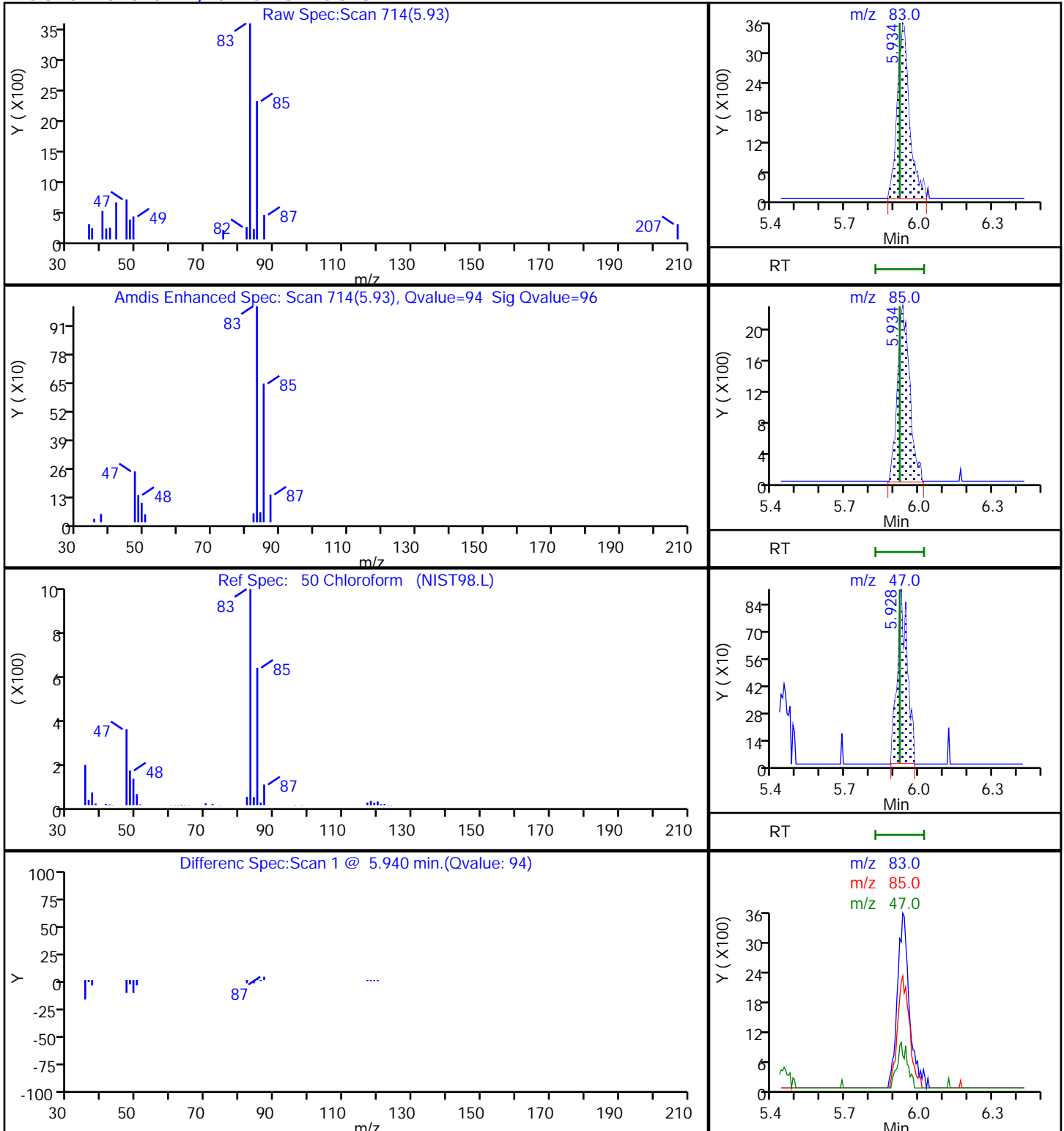
Method: MSV_10193_25mL

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\10193\20230531-85466.b\CY31X21.D

Injection Date: 01-Jun-2023 04:11:30

Instrument ID: 10193

Lims ID: 410-127761-A-9

Lab Sample ID: 410-127761-9

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

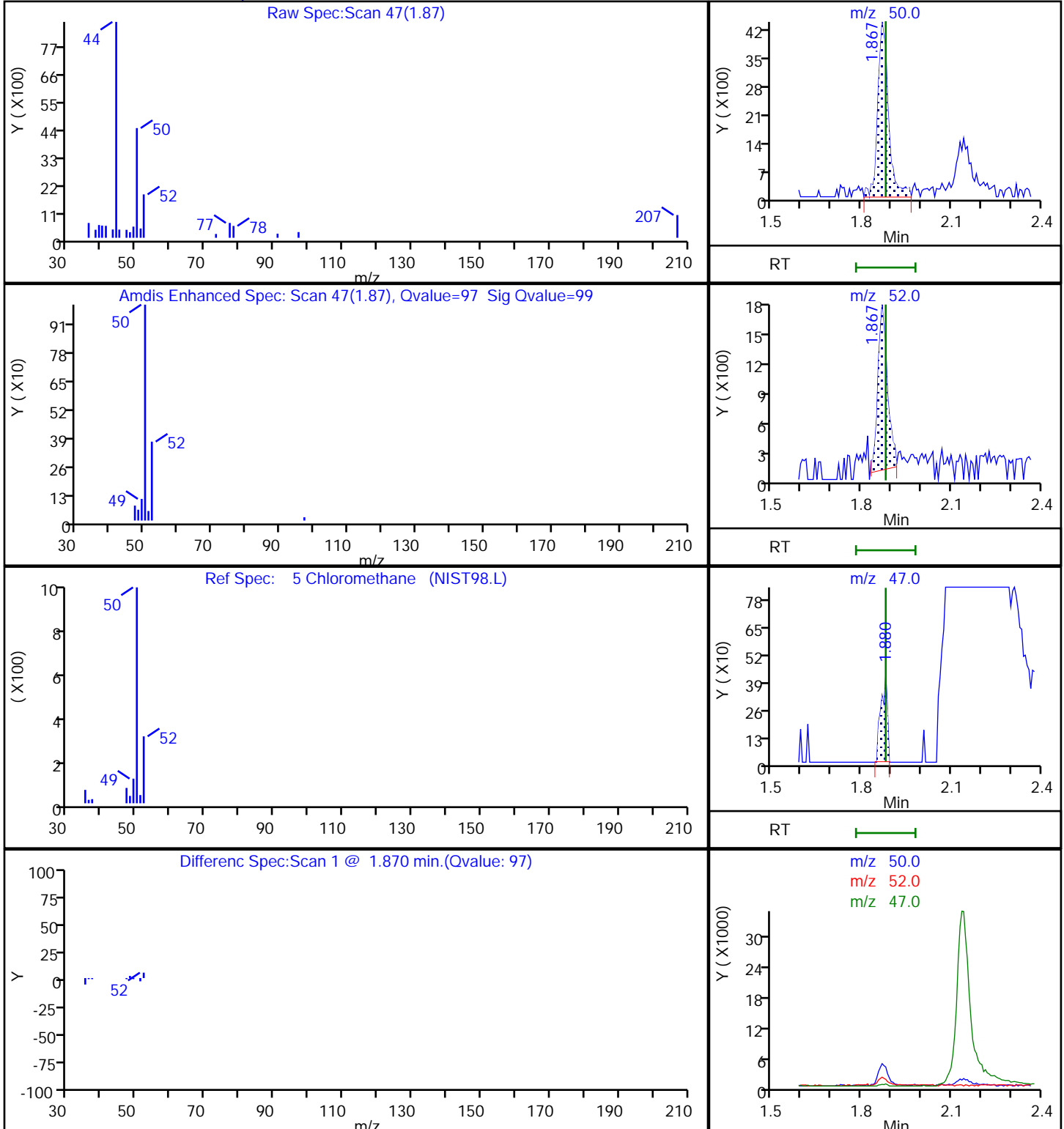
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

5 Chloromethane, CAS: 74-87-3



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X21.D

Injection Date: 01-Jun-2023 04:11:30

Instrument ID: 10193

Lims ID: 410-127761-A-9

Lab Sample ID: 410-127761-9

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

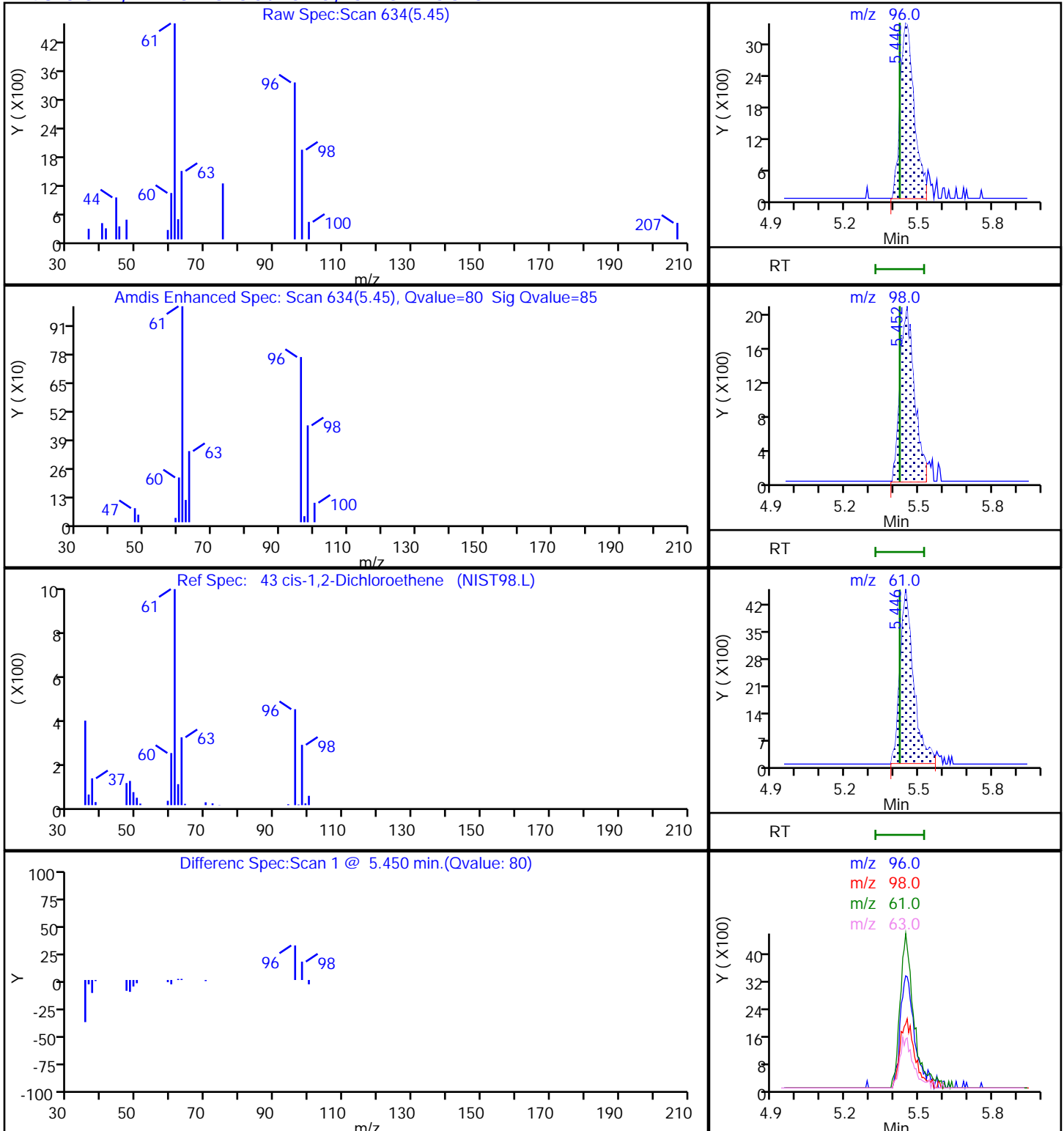
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X21.D

Injection Date: 01-Jun-2023 04:11:30

Instrument ID: 10193

Lims ID: 410-127761-A-9

Lab Sample ID: 410-127761-9

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

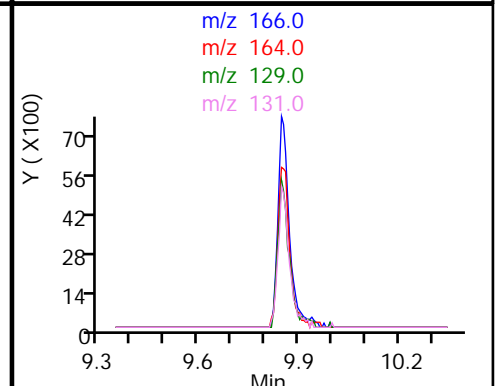
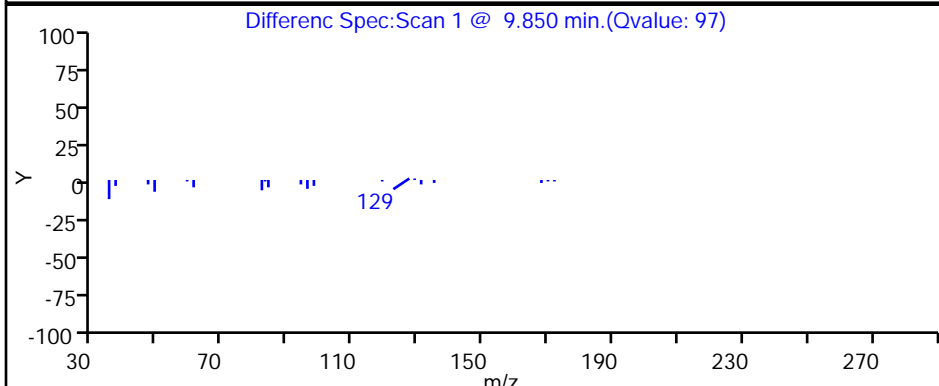
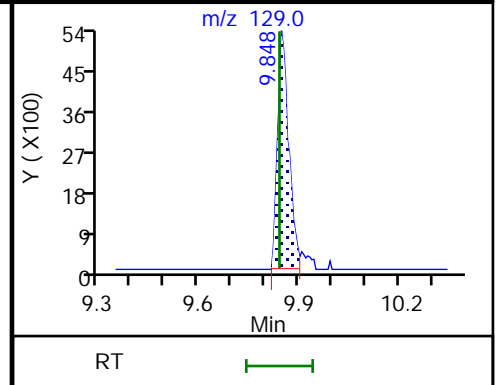
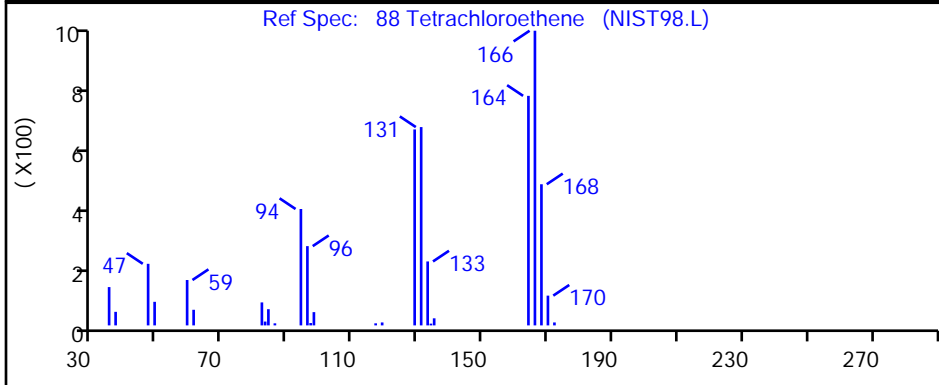
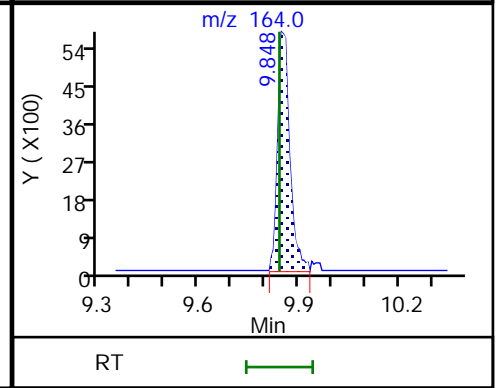
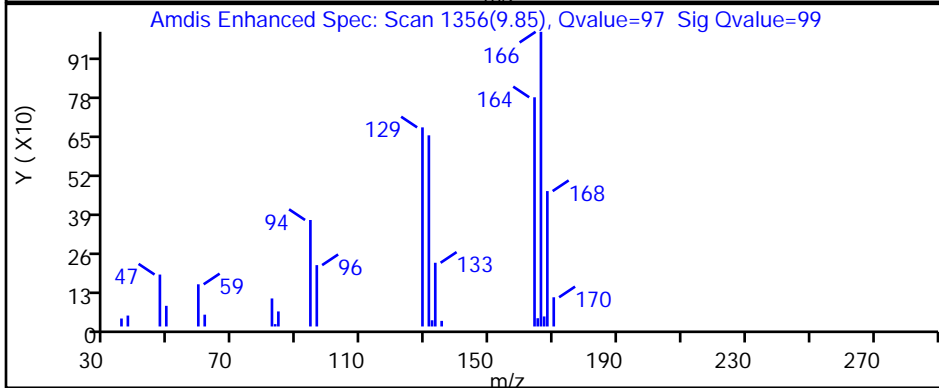
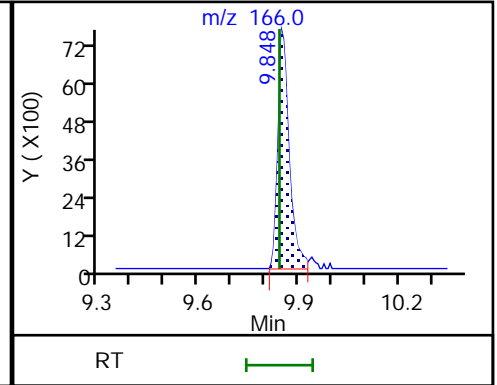
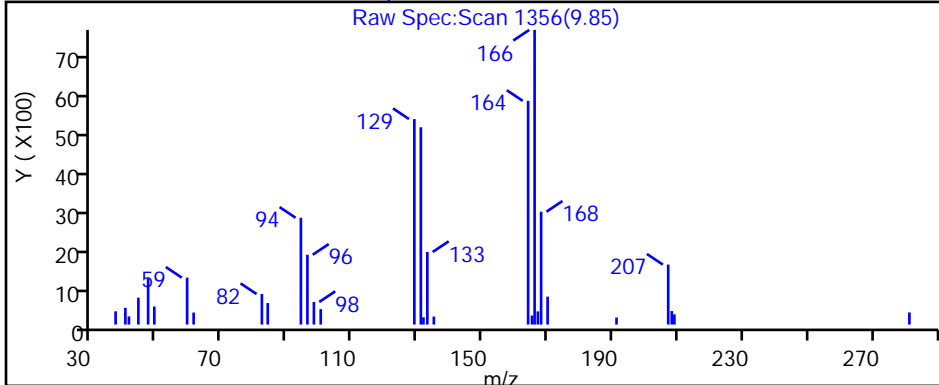
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

88 Tetrachloroethene, CAS: 127-18-4



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X21.D

Injection Date: 01-Jun-2023 04:11:30

Instrument ID: 10193

Lims ID: 410-127761-A-9

Lab Sample ID: 410-127761-9

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

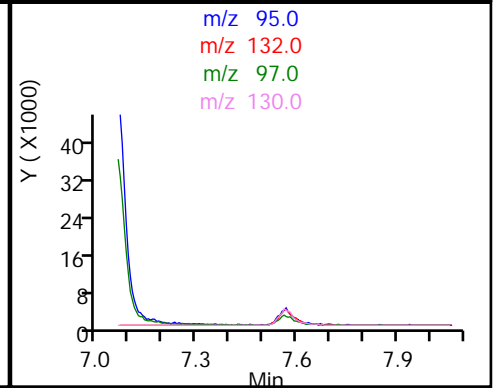
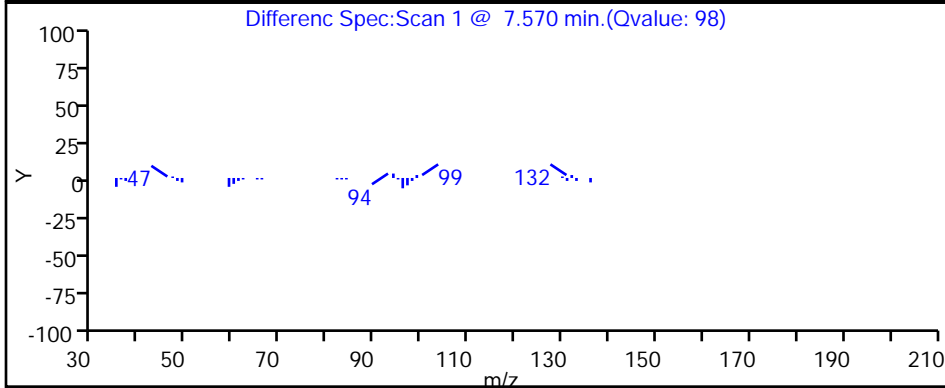
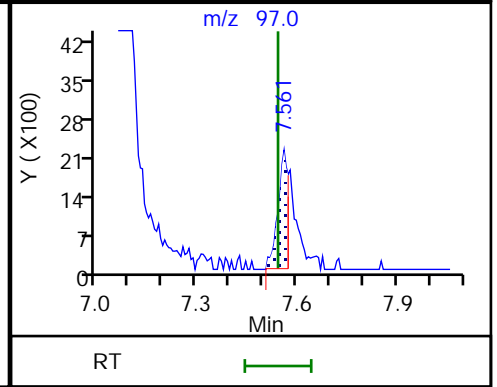
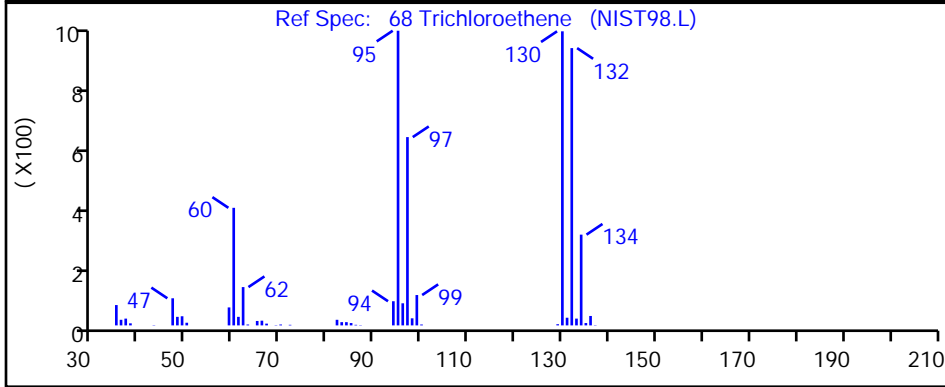
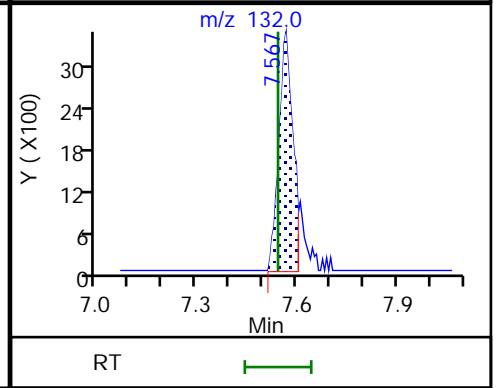
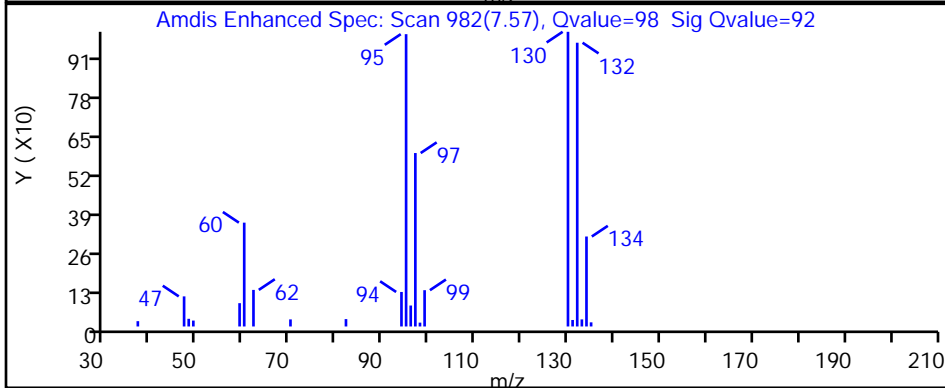
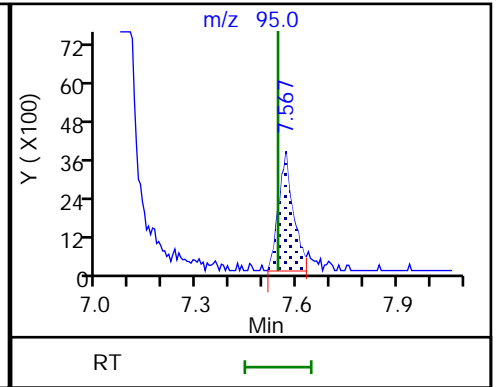
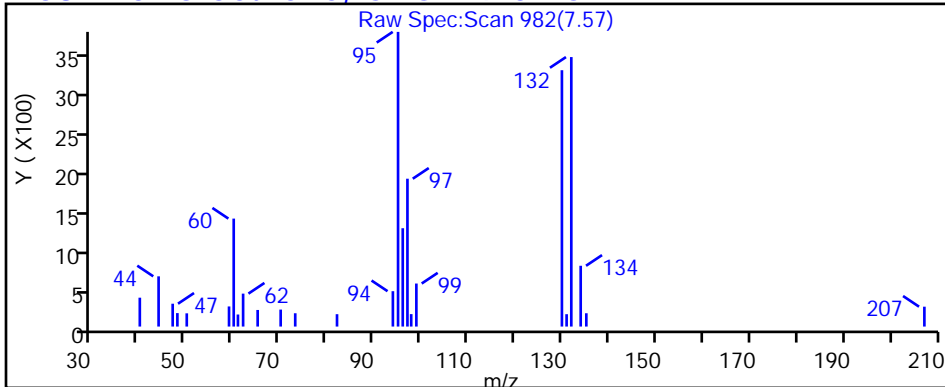
Method: MSV_10193_25mL

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.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-10

Matrix: Water

Lab File ID: CY31X22.D

Analysis Method: 8260D

Date Collected: 05/23/2023 11:30

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 04:34

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.: 381658

Units: ug/L

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	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.9	J	5.0	1.0
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	0.14	J	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.24	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	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	0.089	J	0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-10

Matrix: Water

Lab File ID: CY31X22.D

Analysis Method: 8260D

Date Collected: 05/23/2023 11:30

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 04:34

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.: 381658

Units: ug/L

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	0.18	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)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	92		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\10193\20230531-85466.b\CY31X22.D
 Lims ID: 410-127761-A-10
 Client ID: HD-COD-SW-27-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 04:34:30 ALS Bottle#: 22 Worklist Smp#: 23
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-023
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 16:10:44 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp

Date:

01-Jun-2023 16:10:44

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.873	1.879	-0.006	99	11491	0.1407	
6 Vinyl chloride	62		1.983				ND	7
9 Bromomethane	94		2.264				ND	7
10 Chloroethane	64		2.325				ND	
18 1,1-Dichloroethene	96		3.032				ND	7
20 Acetone	43	3.093	3.062	0.031	96	24693	2.90	
25 Carbon disulfide	76	3.306	3.276	0.030	97	5156	0.0315	
30 Methylene Chloride	84		3.580				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.654	3.641	0.013	97	178611	50.0	
34 Methyl tert-butyl ether	73		3.928				ND	7
35 trans-1,2-Dichloroethene	96		3.934				ND	
37 1,1-Dichloroethane	63		4.556				ND	
42 2-Butanone (MEK)	43		5.409				ND	7
43 cis-1,2-Dichloroethene	96	5.464	5.421	0.043	81	15223	0.2422	
48 Chlorobromomethane	128		5.757				ND	
50 Chloroform	83	5.940	5.921	0.019	90	7655	0.0736	
53 1,1,1-Trichloroethane	97		6.135				ND	
\$ 54 Dibromofluoromethane (Surr)	113	6.153	6.141	0.012	94	446631	9.23	
56 Carbon tetrachloride	117		6.348				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.623	6.604	0.018	100	93541	9.81	
60 Benzene	78		6.629				ND	7
61 1,2-Dichloroethane	62		6.714				ND	
* 65 Fluorobenzene (IS)	96	7.061	7.049	0.012	99	1858357	10.0	
68 Trichloroethene	95	7.561	7.543	0.018	96	11568	0.1837	Ma
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.244				ND	7
80 cis-1,3-Dichloropropene	75		8.817				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.024				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.159	9.152	0.007	93	1952912	10.5	
84 Toluene	92	9.244	9.238	0.006	98	12720	0.0885	
85 trans-1,3-Dichloropropene	75		9.543				ND	
87 1,1,2-Trichloroethane	97		9.762				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	9.854	9.841	0.013	95	3845	0.0567	
106 2-Hexanone	43		10.006				ND	7
108 Chlorodibromomethane	129		10.158				ND	
110 Ethylene Dibromide	107		10.268				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.738	10.738	0.000	85	1560250	10.0	
113 Chlorobenzene	112		10.762				ND	
114 1,1,1,2-Tetrachloroethane	131		10.853				ND	
115 Ethylbenzene	91		10.859				ND	7
116 m-Xylene & p-Xylene	106		10.981				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.323				ND	7
119 Styrene	104		11.341				ND	7
120 Bromoform	173		11.500				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.786	0.006	95	728392	9.15	
126 1,1,2,2-Tetrachloroethane	83		11.902				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.694	12.688	0.006	94	888940	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_HP25_ISSS_00070

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X22.D

Injection Date: 01-Jun-2023 04:34:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-127761-A-10

Lab Sample ID: 410-127761-10

Worklist Smp#: 23

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

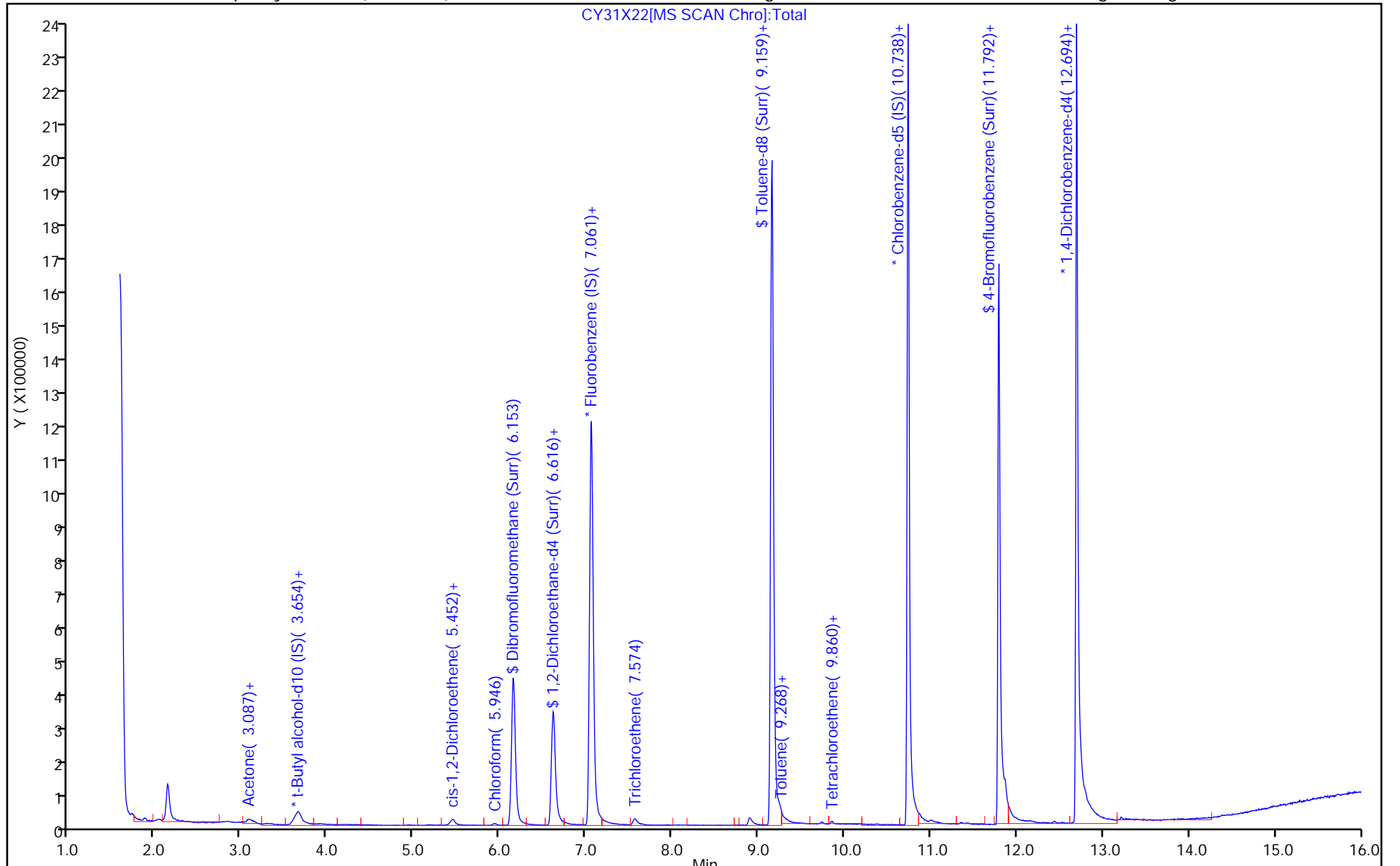
ALS Bottle#: 22

Method: MSV_10193_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\10193\20230531-85466.b\CY31X22.D
 Lims ID: 410-127761-A-10
 Client ID: HD-COD-SW-27-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 04:34:30 ALS Bottle#: 22 Worklist Smp#: 23
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-023
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 16:10:44 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp

Date: 01-Jun-2023 16:10:44

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.23	92.28
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.81	98.07
\$ 83 Toluene-d8 (Surr)	10.0	10.5	104.79
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.15	91.45

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X22.D

Injection Date: 01-Jun-2023 04:34:30

Instrument ID: 10193

Lims ID: 410-127761-A-10

Lab Sample ID: 410-127761-10

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

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

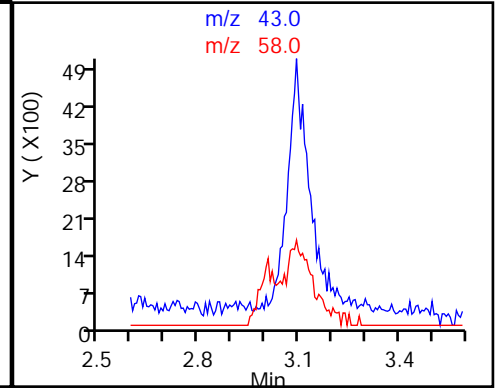
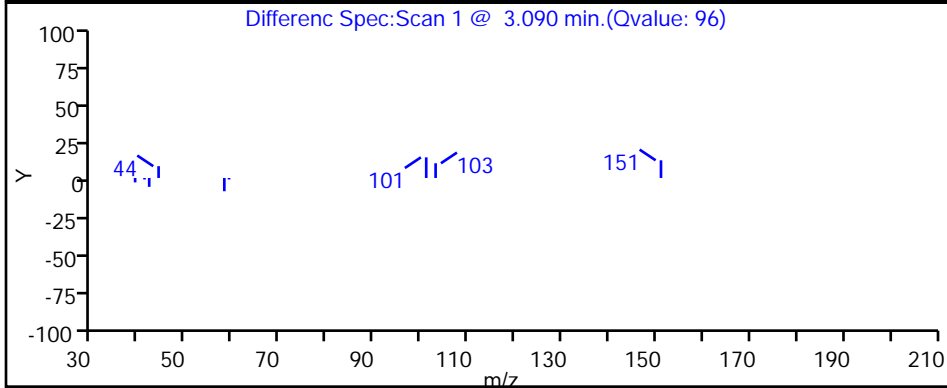
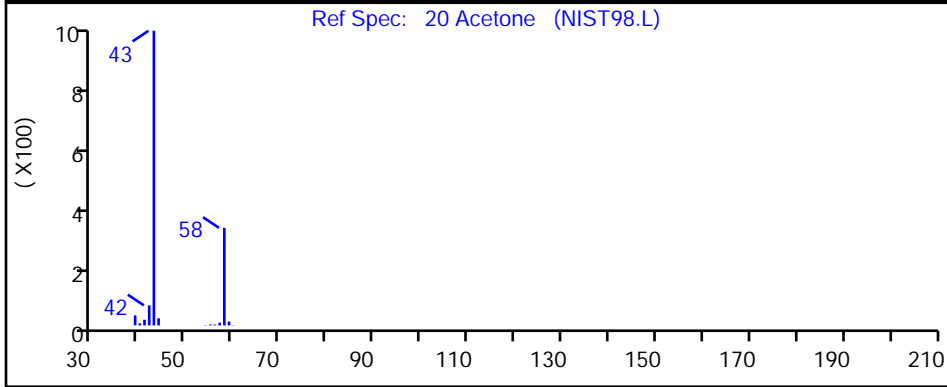
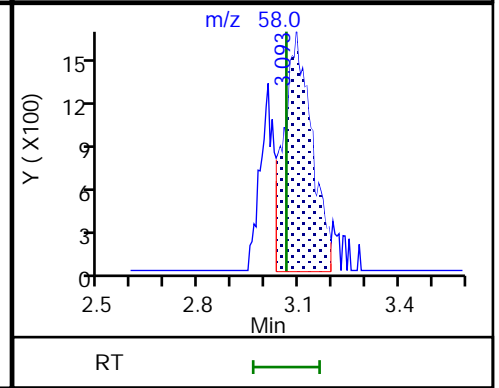
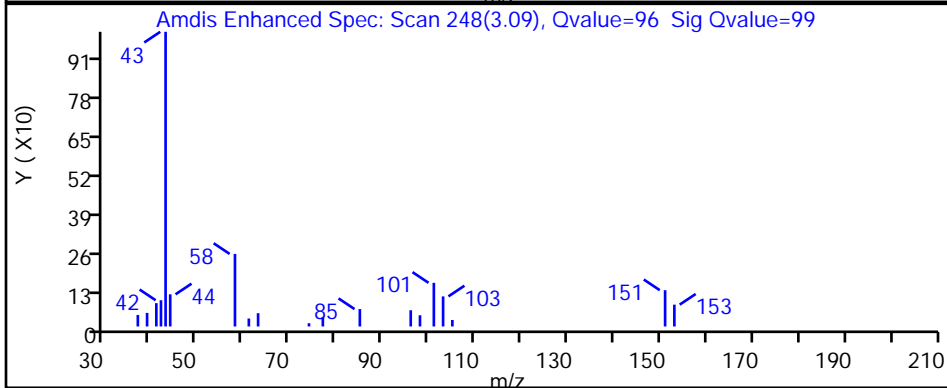
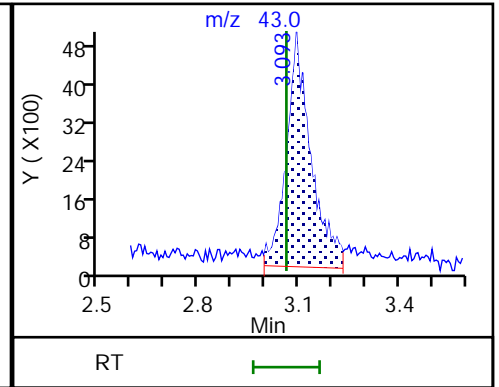
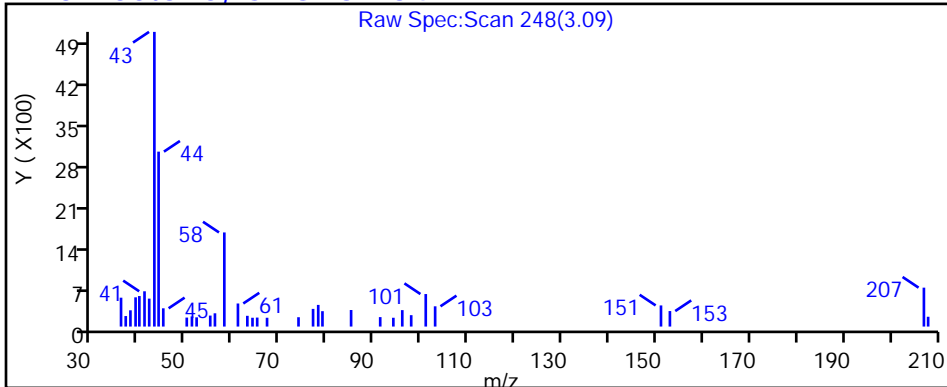
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

20 Acetone, CAS: 67-64-1



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X22.D

Injection Date: 01-Jun-2023 04:34:30

Instrument ID: 10193

Lims ID: 410-127761-A-10

Lab Sample ID: 410-127761-10

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

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

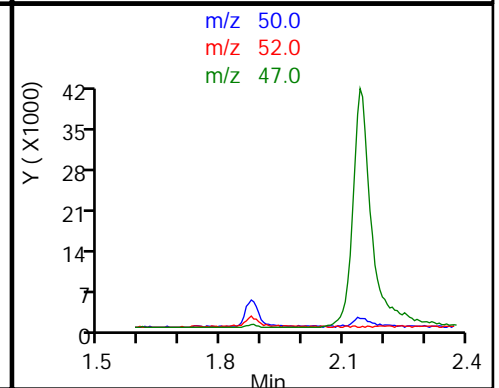
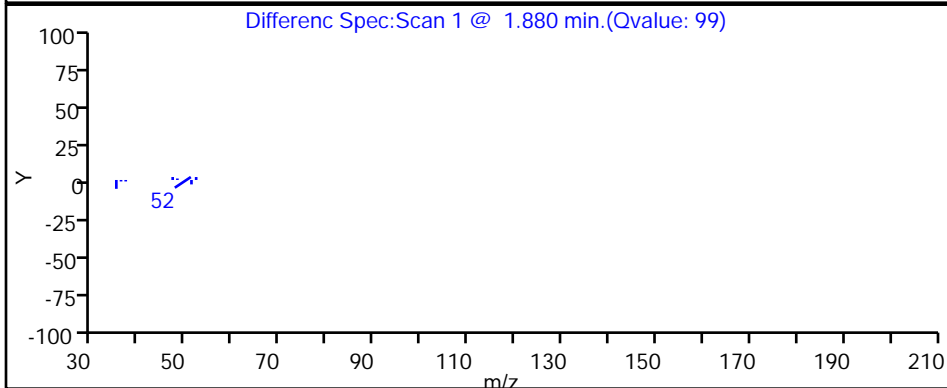
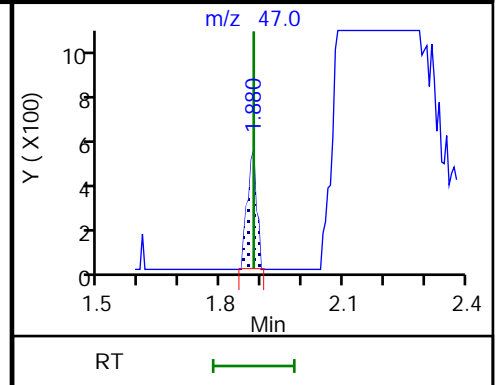
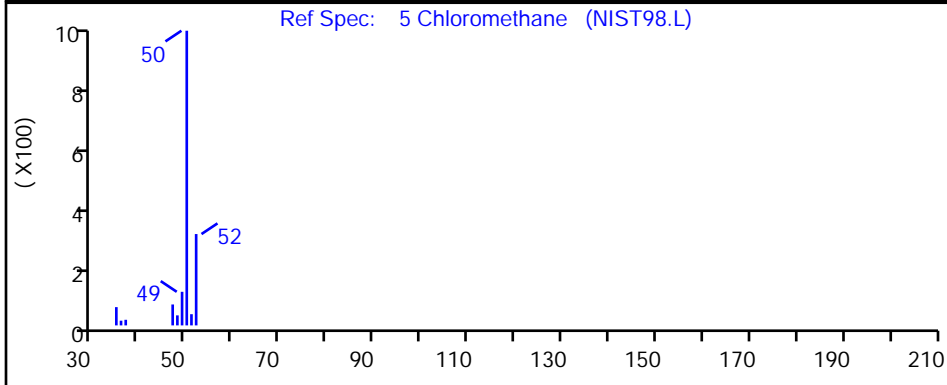
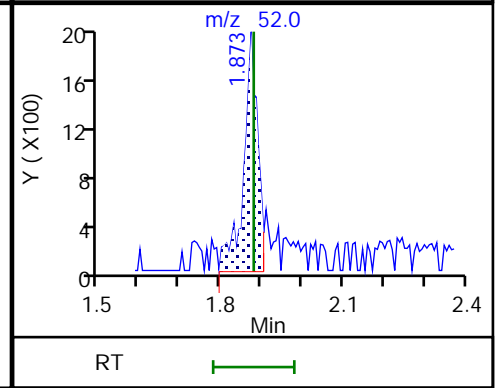
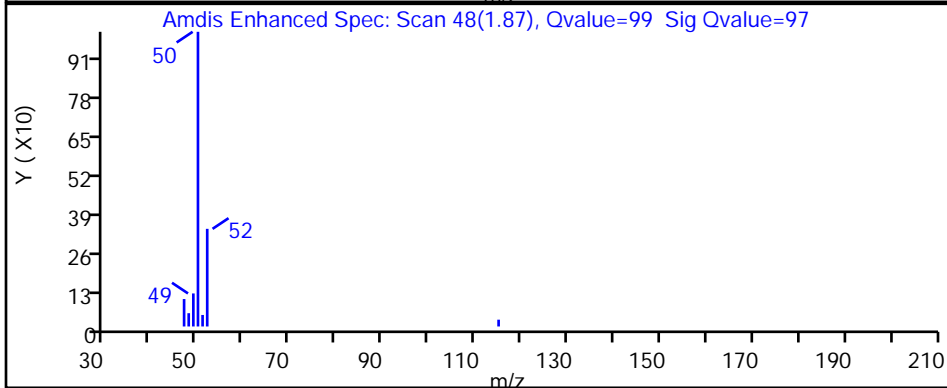
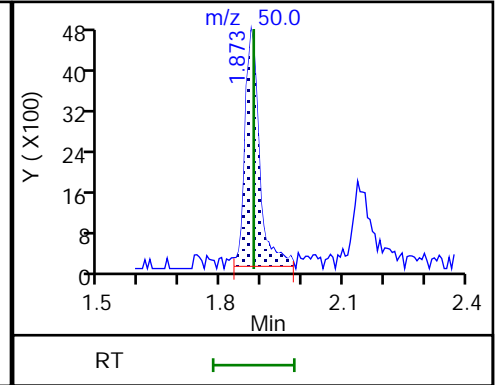
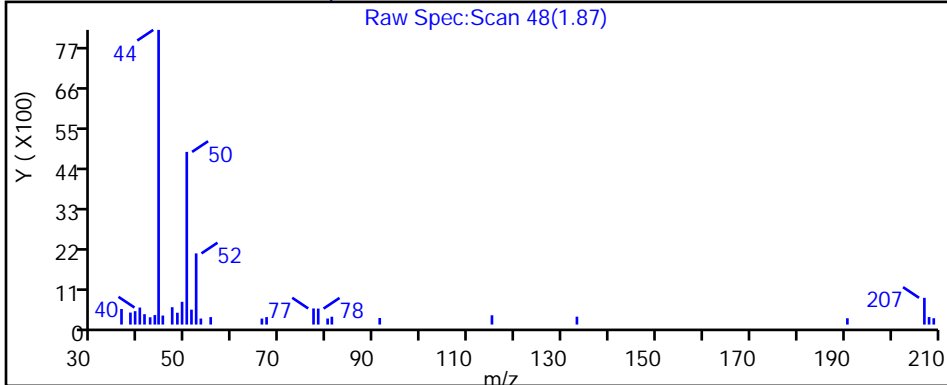
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

5 Chloromethane, CAS: 74-87-3



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X22.D

Injection Date: 01-Jun-2023 04:34:30

Instrument ID: 10193

Lims ID: 410-127761-A-10

Lab Sample ID: 410-127761-10

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

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

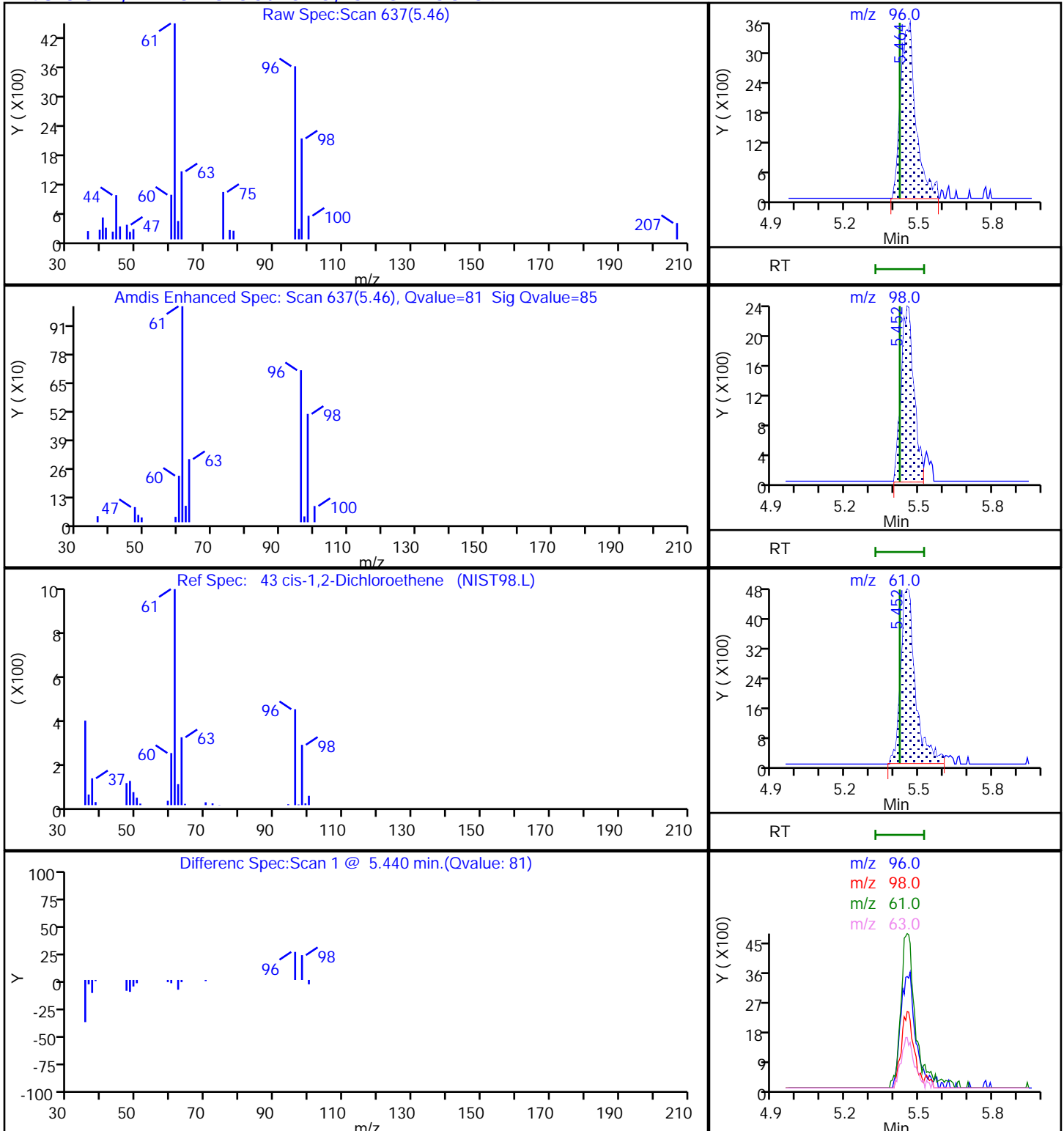
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X22.D

Injection Date: 01-Jun-2023 04:34:30

Instrument ID: 10193

Lims ID: 410-127761-A-10

Lab Sample ID: 410-127761-10

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

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

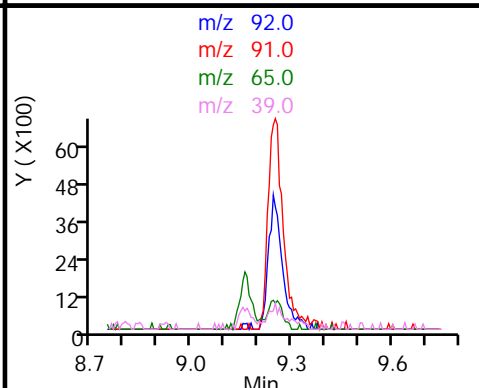
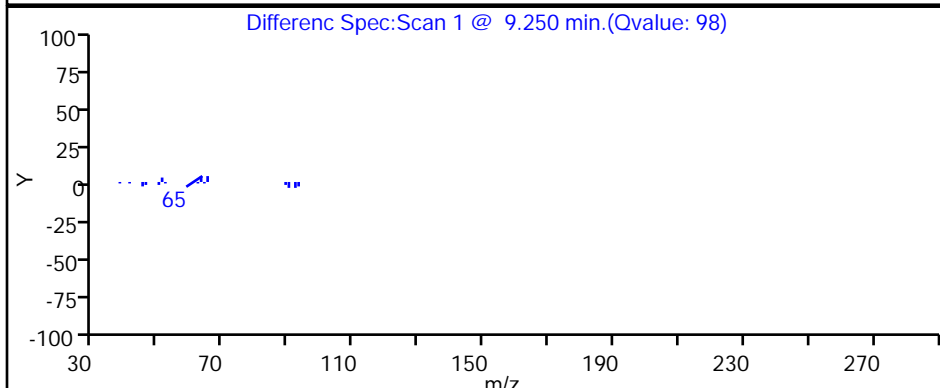
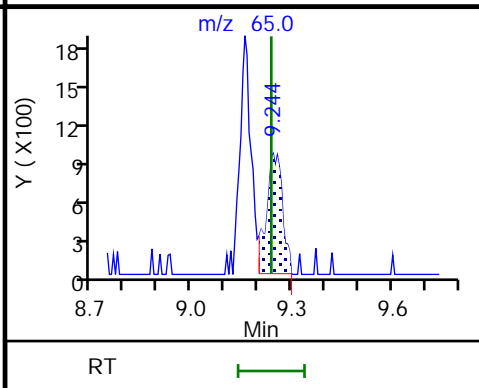
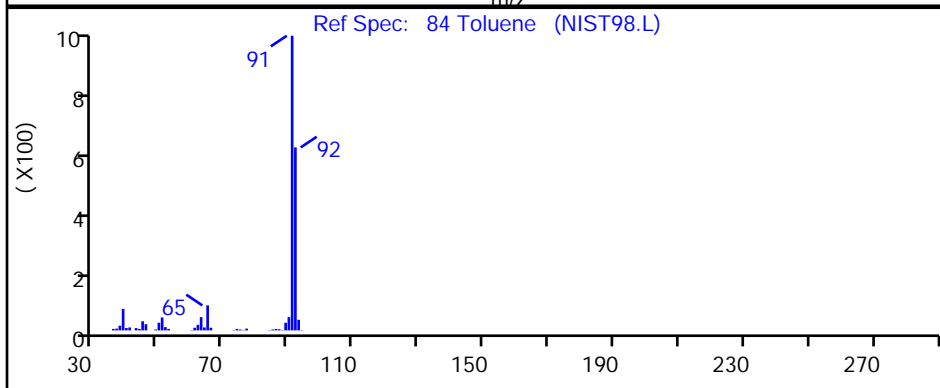
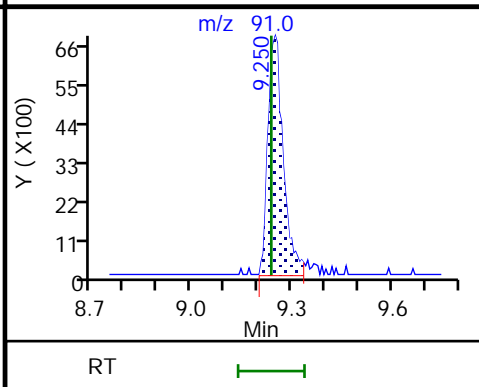
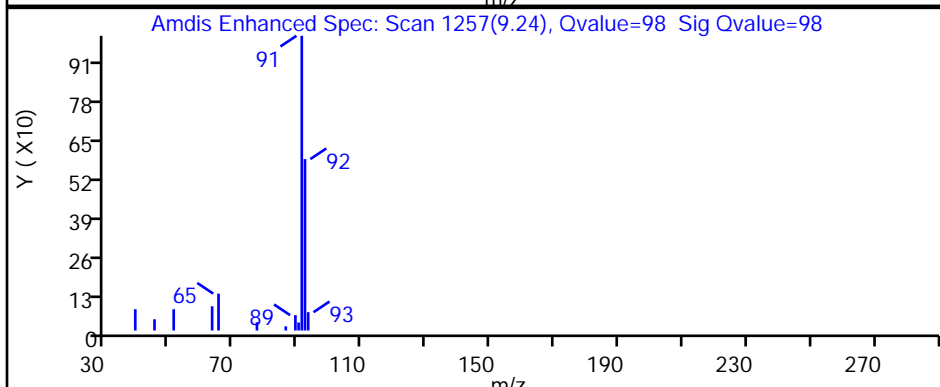
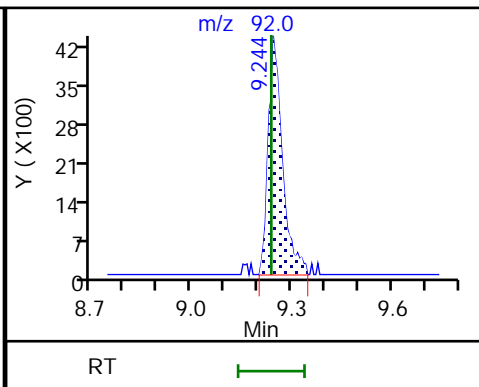
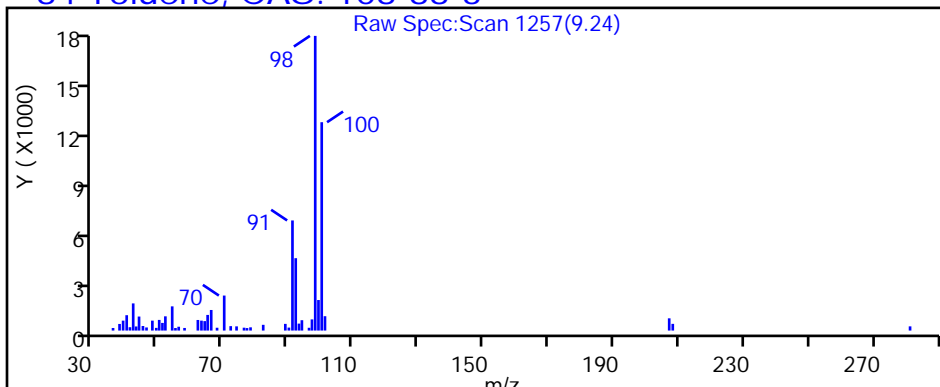
Method: MSV_10193_25mL

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\10193\20230531-85466.b\CY31X22.D

Injection Date: 01-Jun-2023 04:34:30

Instrument ID: 10193

Lims ID: 410-127761-A-10

Lab Sample ID: 410-127761-10

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

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

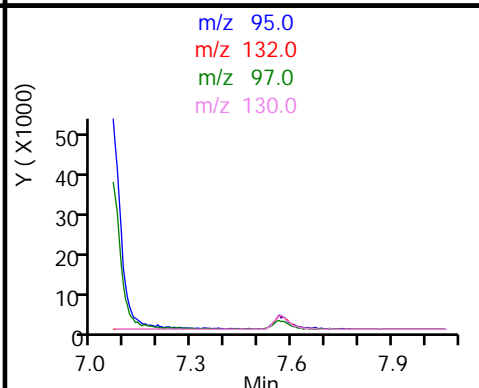
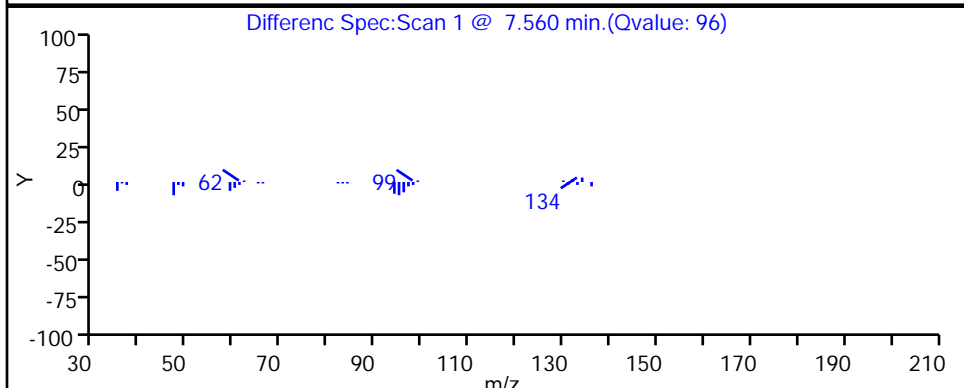
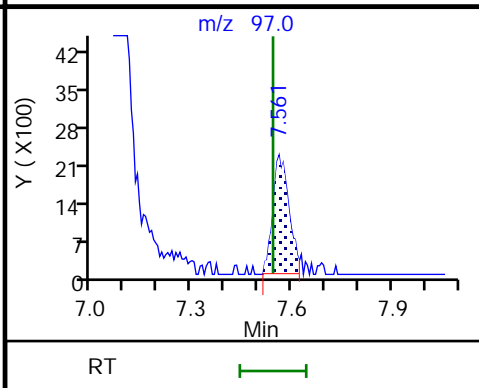
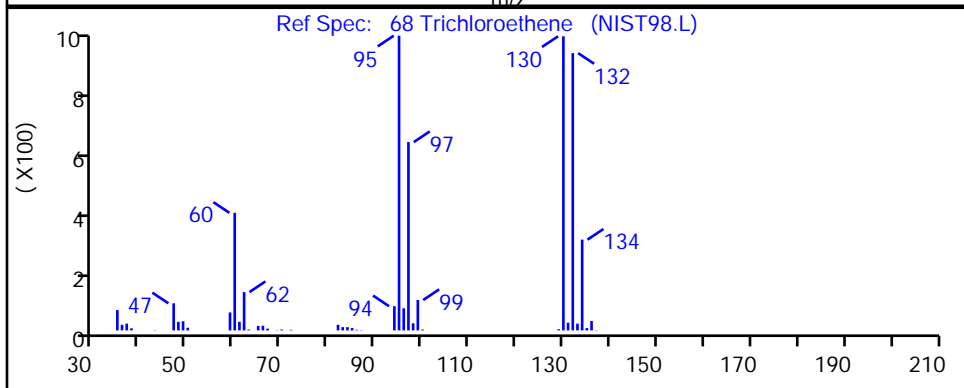
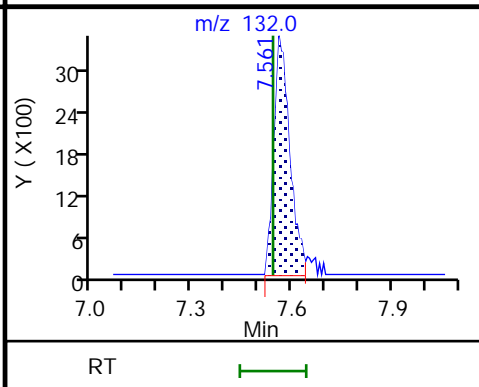
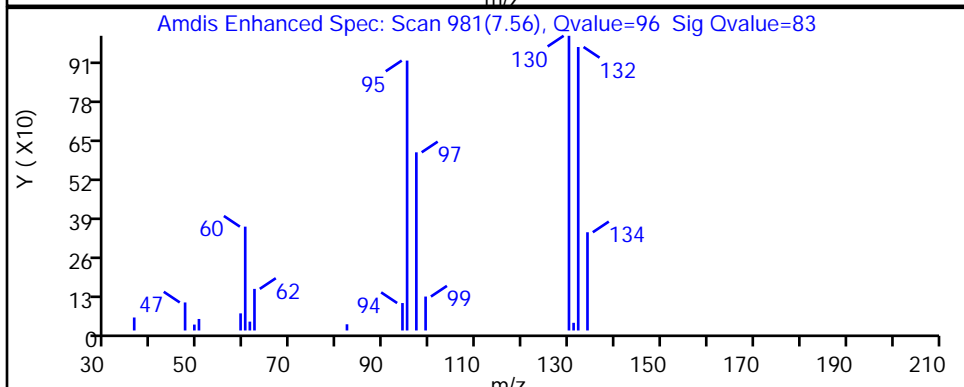
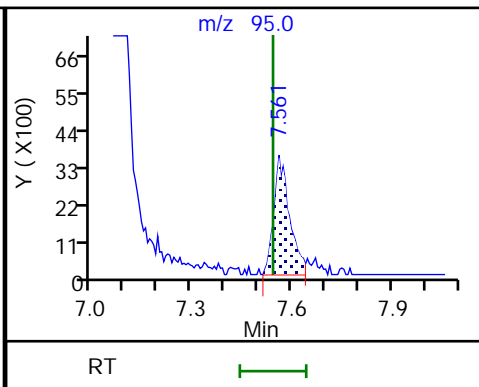
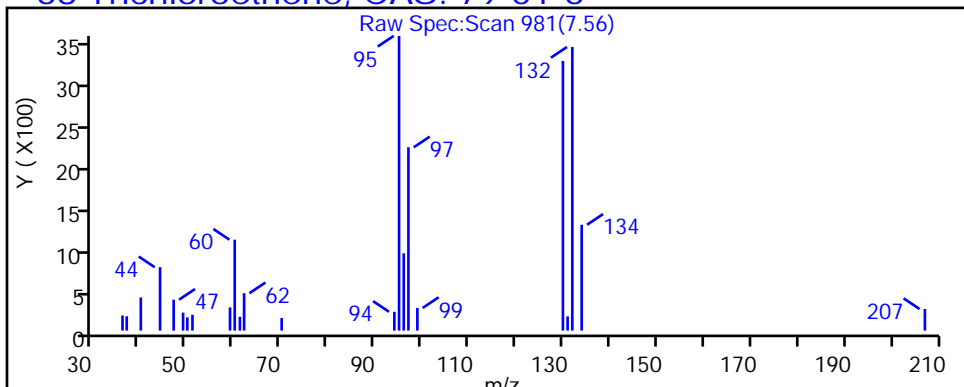
Method: MSV_10193_25mL

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

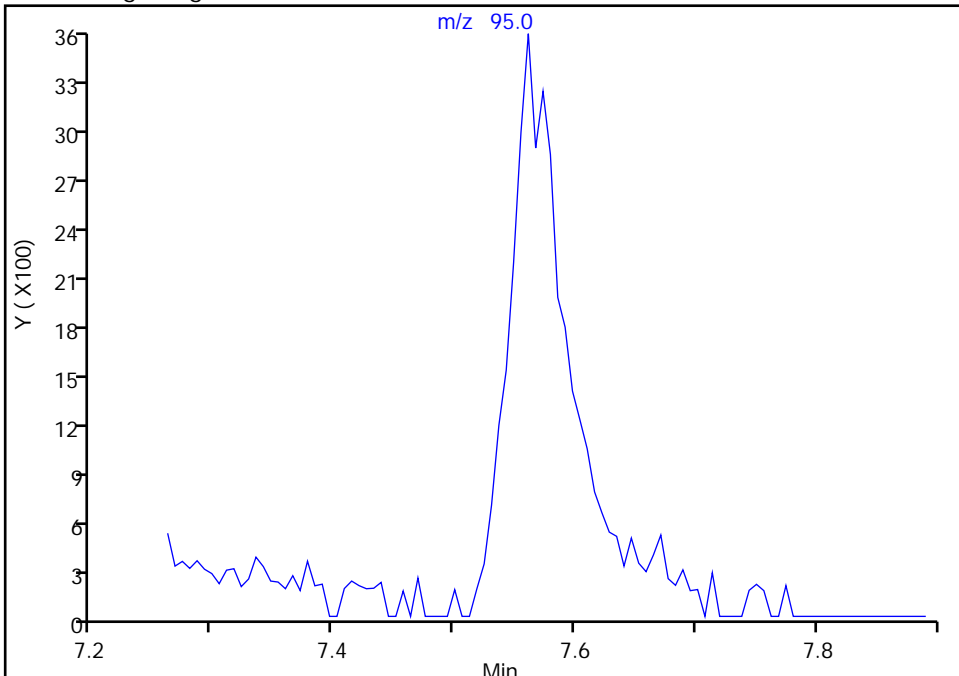
Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X22.D
Injection Date: 01-Jun-2023 04:34:30 Instrument ID: 10193
Lims ID: 410-127761-A-10 Lab Sample ID: 410-127761-10
Client ID: HD-COD-SW-27-0/1-0
Operator ID: gaw91131 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_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

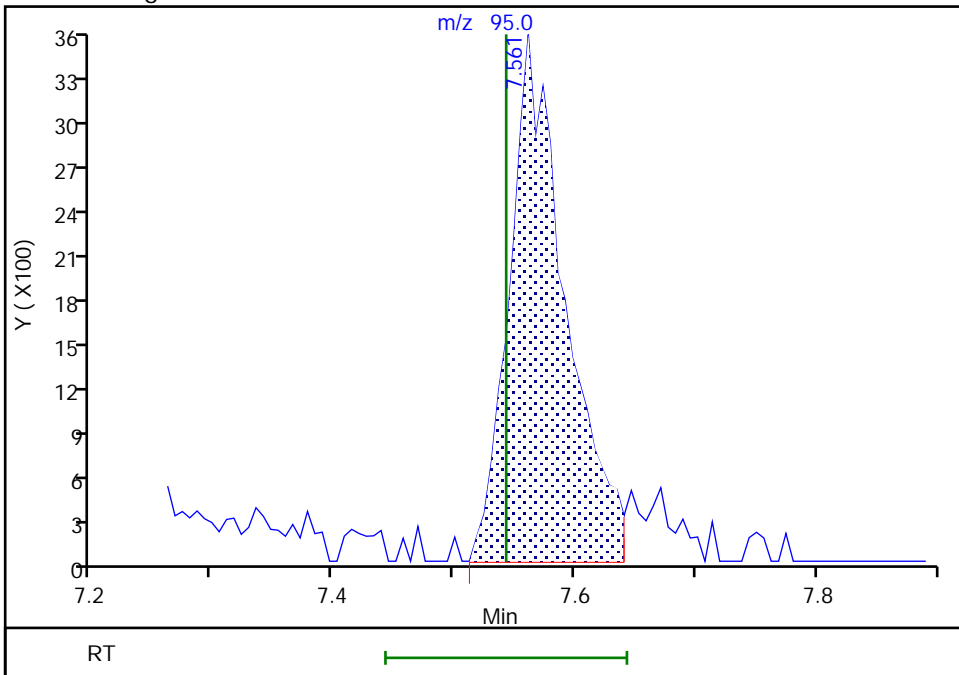
Not Detected
Expected RT: 7.54

Processing Integration Results



Manual Integration Results

RT: 7.56
Area: 11568
Amount: 0.183682
Amount Units: ug/l



Reviewer: kaewrungrueangp, 01-Jun-2023 16:10:28 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.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-11

Matrix: Water

Lab File ID: CY31X23.D

Analysis Method: 8260D

Date Collected: 05/23/2023 13:08

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 04:56

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.: 381658

Units: ug/L

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	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	4.5	J	5.0	1.0
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	0.15	J	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	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	0.095	J	0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-11

Matrix: Water

Lab File ID: CY31X23.D

Analysis Method: 8260D

Date Collected: 05/23/2023 13:08

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 04:56

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.: 381658

Units: ug/L

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	0.16	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		80-120
460-00-4	4-Bromofluorobenzene (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	91		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\10193\20230531-85466.b\CY31X23.D
 Lims ID: 410-127761-A-11
 Client ID: HD-COD-SW-28-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 04:56:30 ALS Bottle#: 23 Worklist Smp#: 24
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-024
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 14:19:01 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1678

First Level Reviewer: DVW2

Date: 01-Jun-2023 14:17:23

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.867	1.879	-0.012	98	12029	0.1484	
6 Vinyl chloride	62		1.983				ND	7
9 Bromomethane	94		2.264				ND	7
10 Chloroethane	64		2.325				ND	
18 1,1-Dichloroethene	96		3.032				ND	7
20 Acetone	43	3.099	3.062	0.037	100	37452	4.54	M
25 Carbon disulfide	76	3.300	3.276	0.024	98	10951	0.0675	M
30 Methylene Chloride	84		3.580				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.660	3.641	0.019	97	173290	50.0	
34 Methyl tert-butyl ether	73		3.928				ND	7
35 trans-1,2-Dichloroethene	96		3.934				ND	
37 1,1-Dichloroethane	63		4.556				ND	
42 2-Butanone (MEK)	43		5.409				ND	7
43 cis-1,2-Dichloroethene	96	5.440	5.421	0.019	80	12375	0.1984	
48 Chlorobromomethane	128		5.757				ND	
50 Chloroform	83	5.934	5.921	0.013	94	7834	0.0758	
53 1,1,1-Trichloroethane	97		6.135				ND	
\$ 54 Dibromofluoromethane (Surr)	113	6.153	6.141	0.012	94	437045	9.10	
56 Carbon tetrachloride	117		6.348				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.604	0.012	100	92085	9.73	
60 Benzene	78		6.629				ND	7
61 1,2-Dichloroethane	62		6.714				ND	
* 65 Fluorobenzene (IS)	96	7.055	7.049	0.006	99	1844657	10.0	
68 Trichloroethene	95	7.574	7.543	0.031	98	9937	0.1590	
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.244				ND	7
80 cis-1,3-Dichloropropene	75		8.817				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.024				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.159	9.152	0.007	93	1925204	10.4	
84 Toluene	92	9.244	9.238	0.006	99	13674	0.0954	
85 trans-1,3-Dichloropropene	75		9.543				ND	
87 1,1,2-Trichloroethane	97		9.762				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	9.847	9.841	0.006	97	9647	0.1425	
106 2-Hexanone	43		10.006				ND	7
108 Chlorodibromomethane	129		10.158				ND	
110 Ethylene Dibromide	107		10.268				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.738	10.738	0.000	85	1556608	10.0	
113 Chlorobenzene	112		10.762				ND	
114 1,1,1,2-Tetrachloroethane	131		10.853				ND	
115 Ethylbenzene	91		10.859				ND	7
116 m-Xylene & p-Xylene	106		10.981				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.323				ND	
119 Styrene	104		11.341				ND	7
120 Bromoform	173		11.500				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.786	0.006	93	717530	9.03	
126 1,1,2,2-Tetrachloroethane	83		11.902				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.694	12.688	0.006	94	876721	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_HP25_ISSS_00070

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X23.D

Injection Date: 01-Jun-2023 04:56:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-127761-A-11

Lab Sample ID: 410-127761-11

Worklist Smp#: 24

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

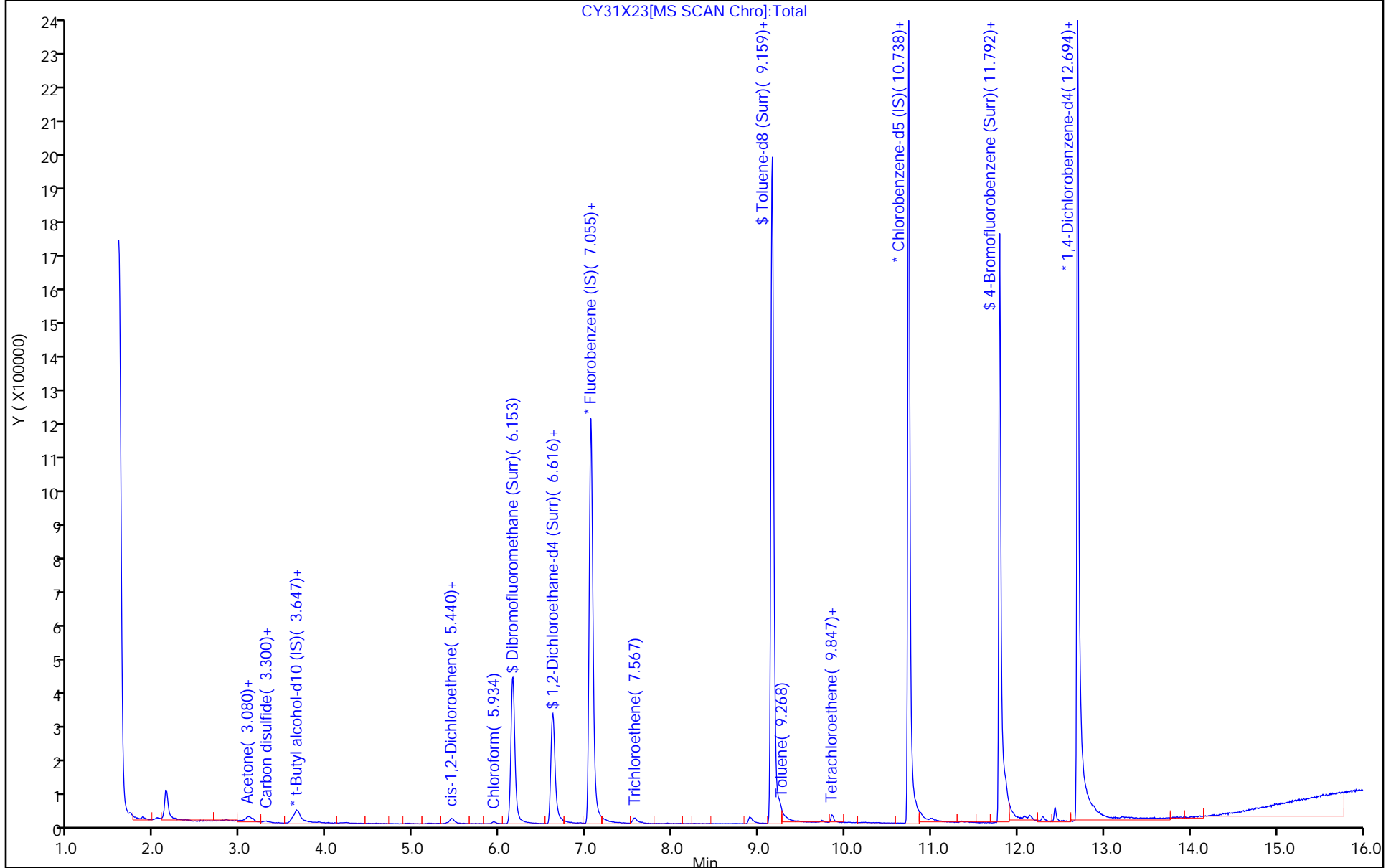
ALS Bottle#: 23

Method: MSV_10193_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\10193\20230531-85466.b\CY31X23.D
 Lims ID: 410-127761-A-11
 Client ID: HD-COD-SW-28-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 04:56:30 ALS Bottle#: 23 Worklist Smp#: 24
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-024
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 14:19:01 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1678

First Level Reviewer: DVW2

Date: 01-Jun-2023 14:17:23

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.10	90.97
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.73	97.26
\$ 83 Toluene-d8 (Surr)	10.0	10.4	103.55
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.03	90.30

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X23.D

Injection Date: 01-Jun-2023 04:56:30

Instrument ID: 10193

Lims ID: 410-127761-A-11

Lab Sample ID: 410-127761-11

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

Operator ID: gaw91131

ALS Bottle#: 23

Worklist Smp#: 24

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

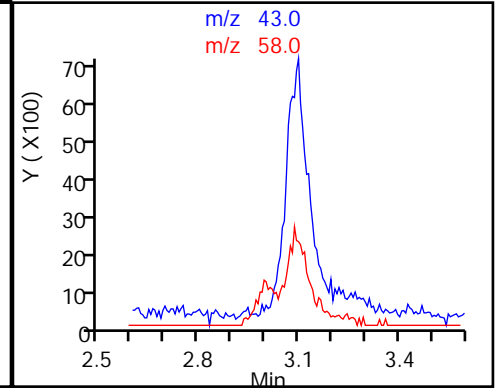
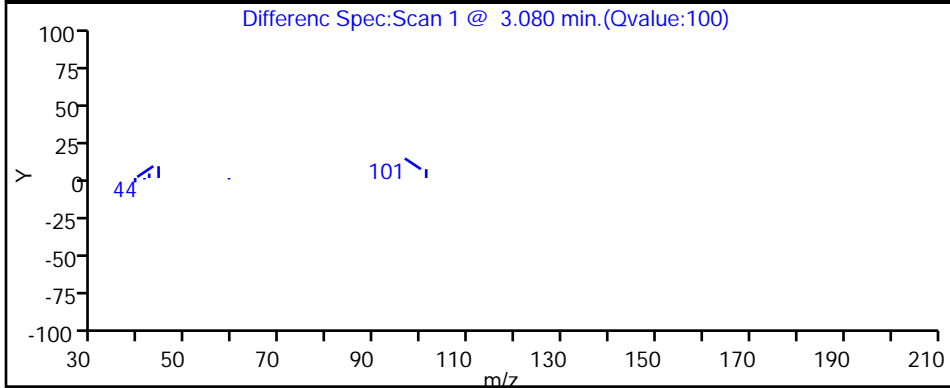
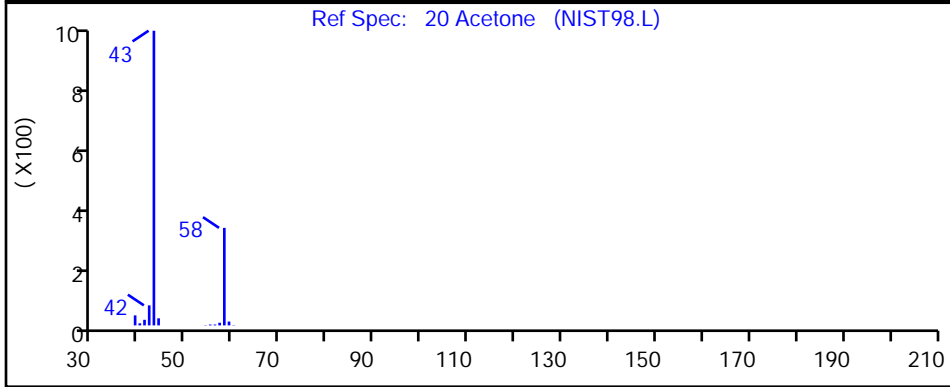
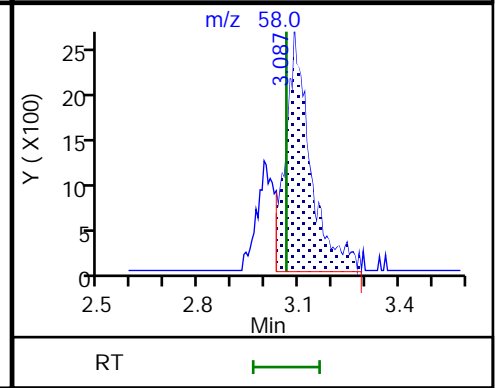
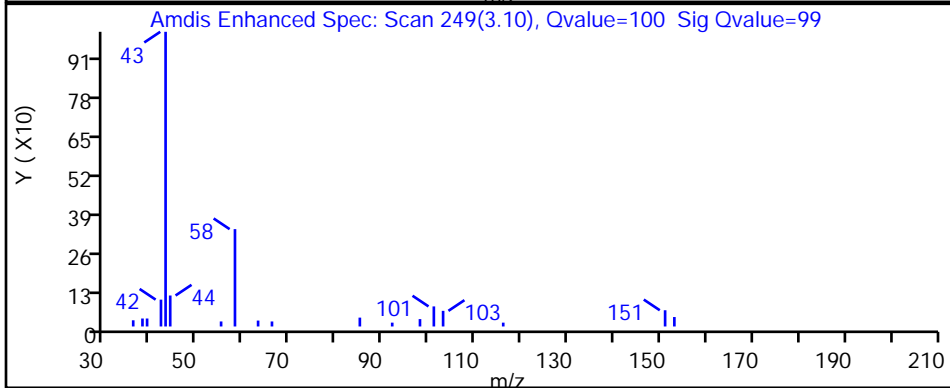
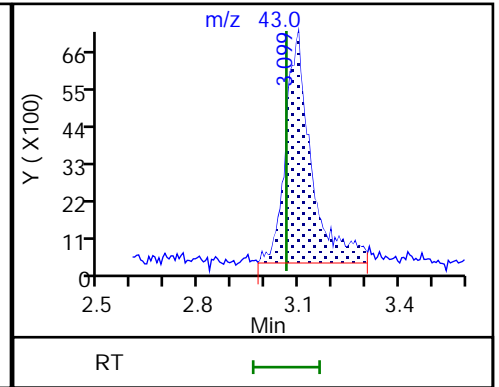
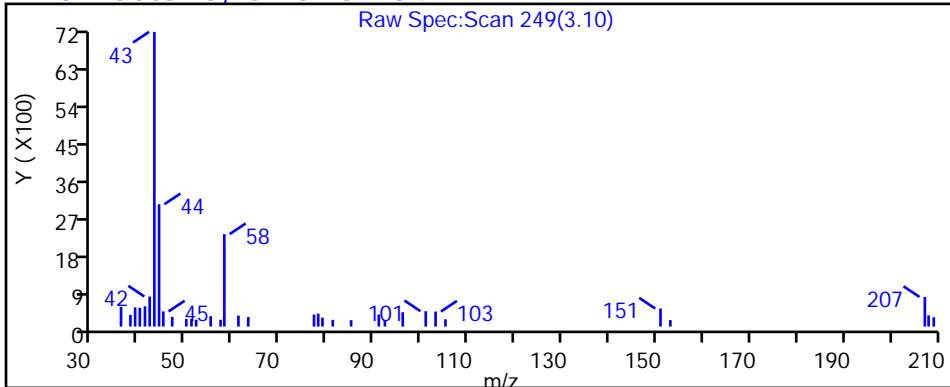
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

20 Acetone, CAS: 67-64-1



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X23.D

Injection Date: 01-Jun-2023 04:56:30

Instrument ID: 10193

Lims ID: 410-127761-A-11

Lab Sample ID: 410-127761-11

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

Operator ID: gaw91131

ALS Bottle#: 23

Worklist Smp#: 24

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

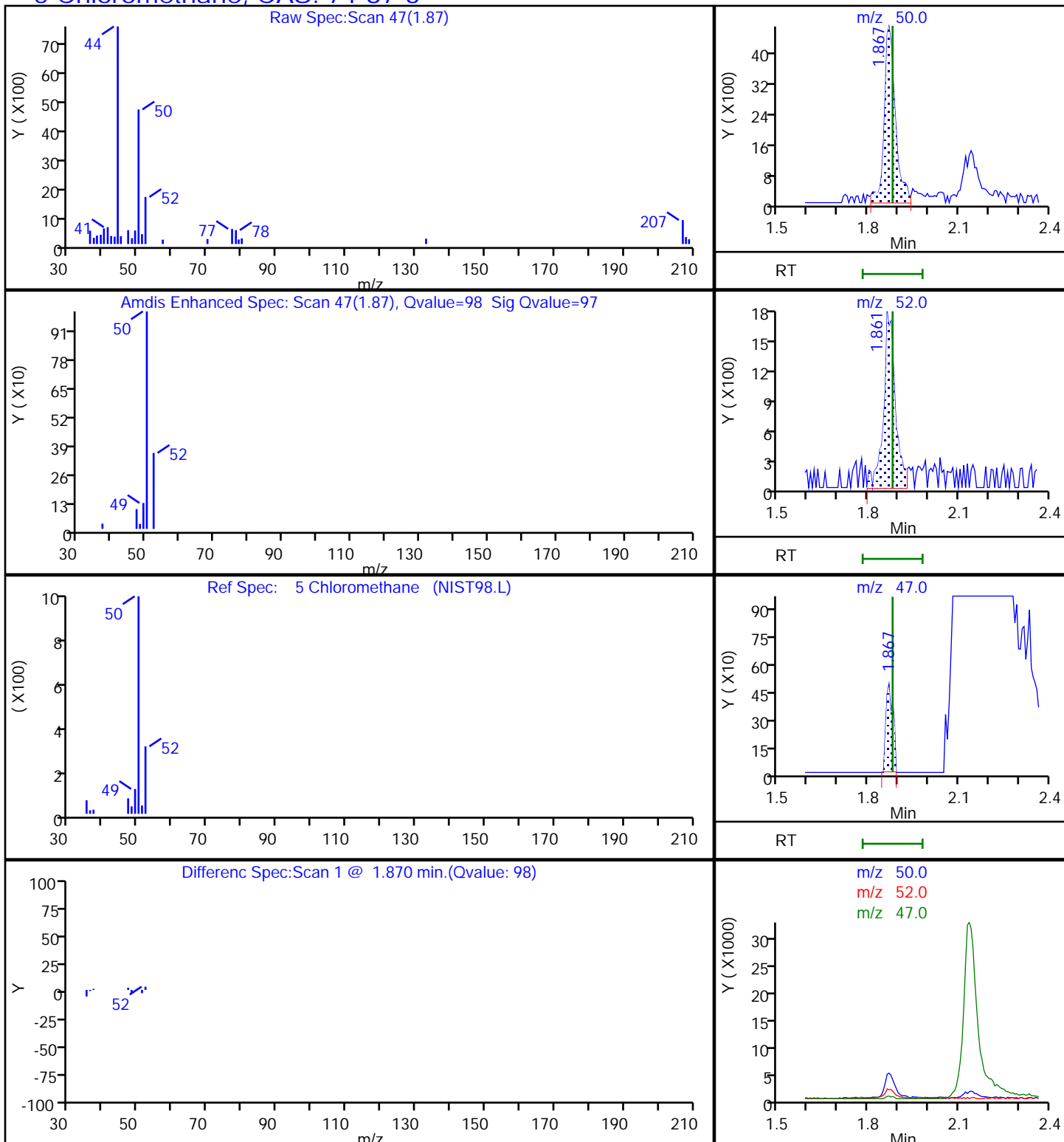
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

5 Chloromethane, CAS: 74-87-3



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X23.D

Injection Date: 01-Jun-2023 04:56:30

Instrument ID: 10193

Lims ID: 410-127761-A-11

Lab Sample ID: 410-127761-11

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

Operator ID: gaw91131

ALS Bottle#: 23

Worklist Smp#: 24

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

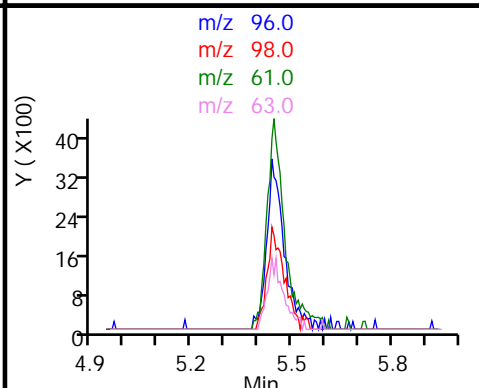
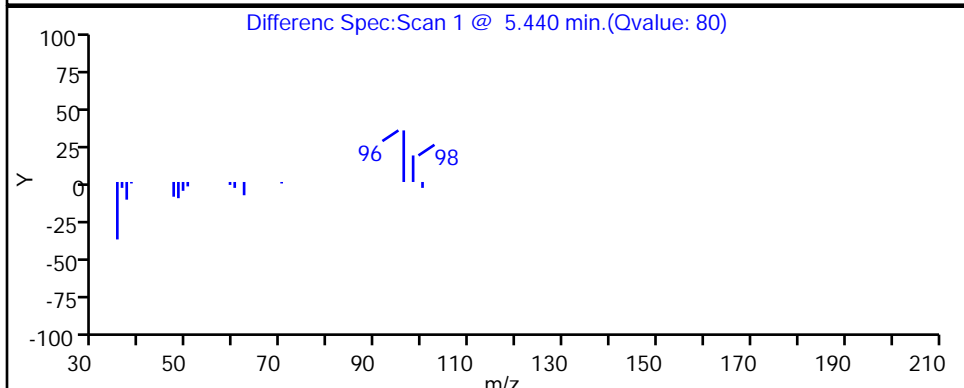
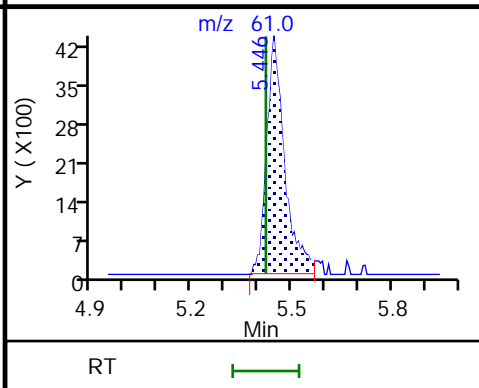
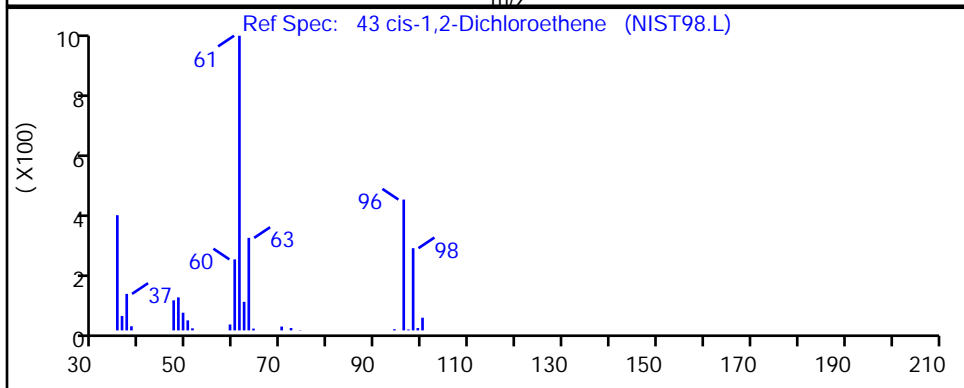
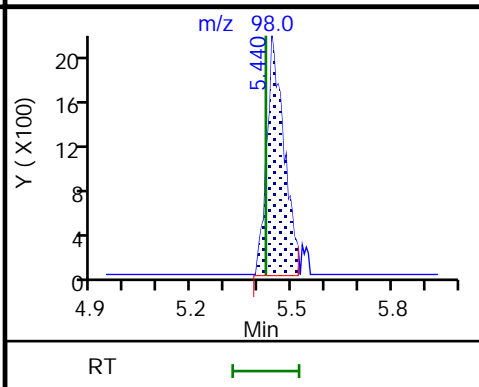
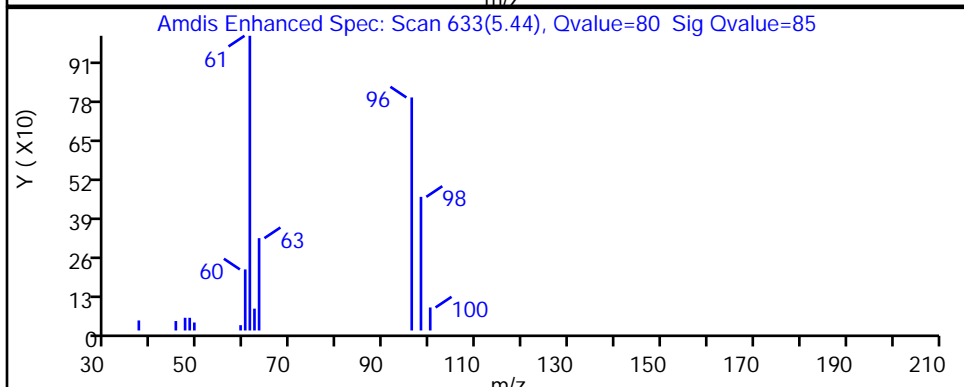
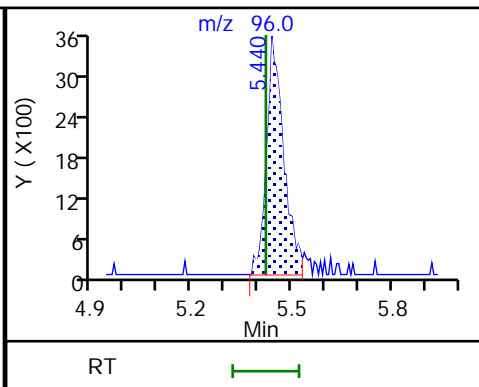
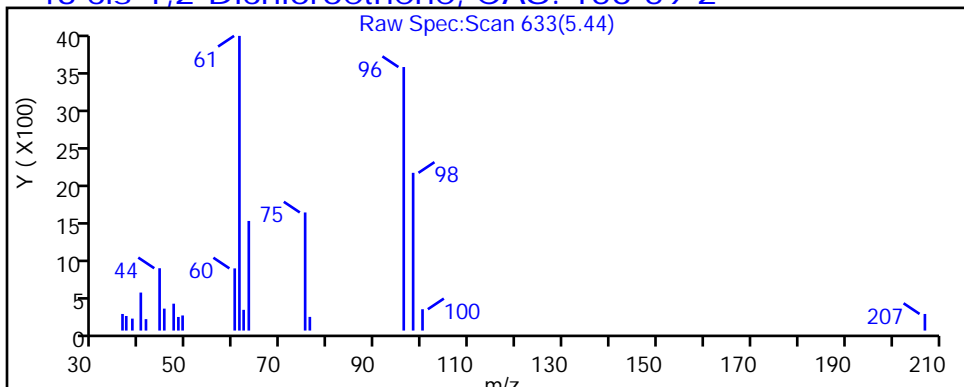
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X23.D

Injection Date: 01-Jun-2023 04:56:30

Instrument ID: 10193

Lims ID: 410-127761-A-11

Lab Sample ID: 410-127761-11

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

Operator ID: gaw91131

ALS Bottle#: 23

Worklist Smp#: 24

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

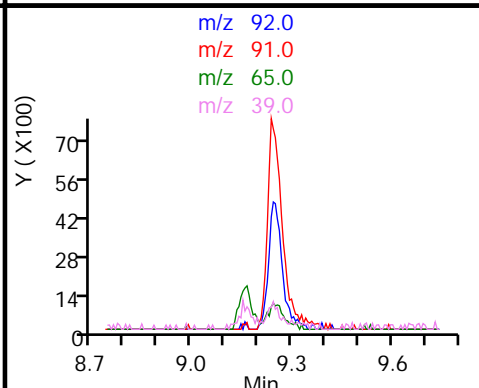
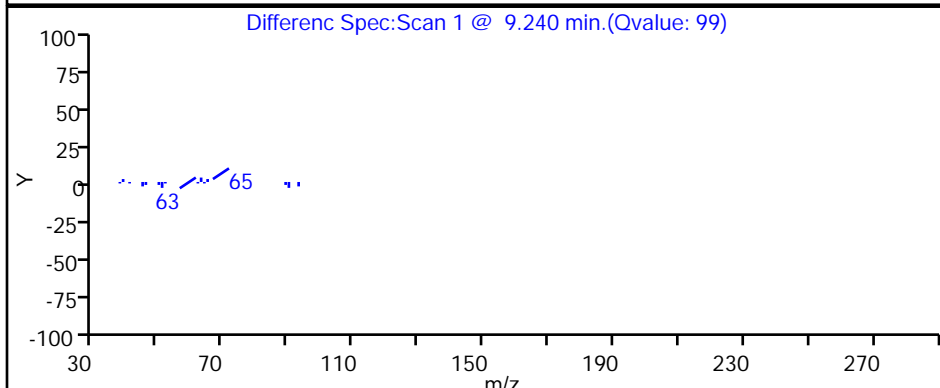
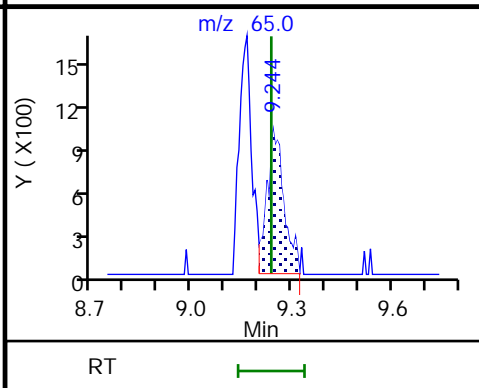
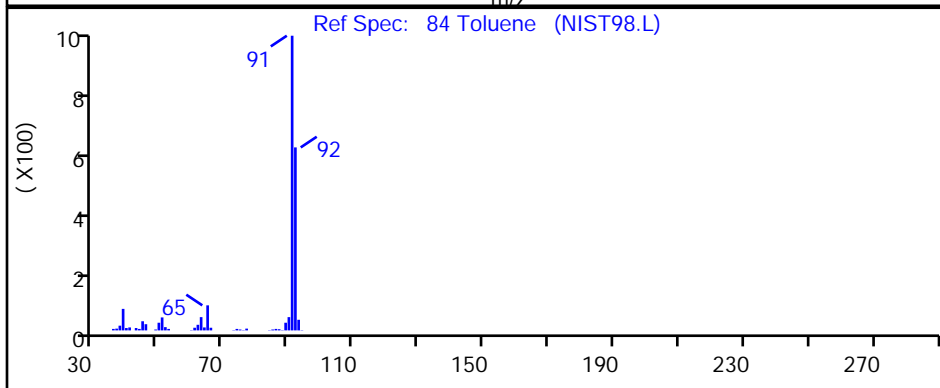
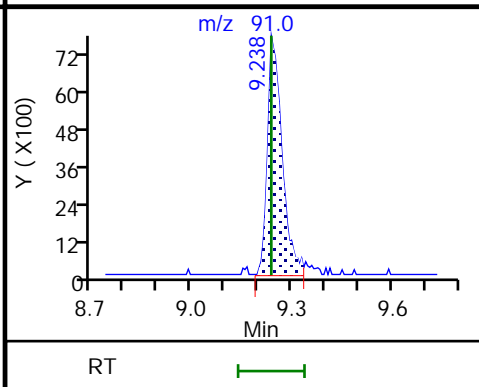
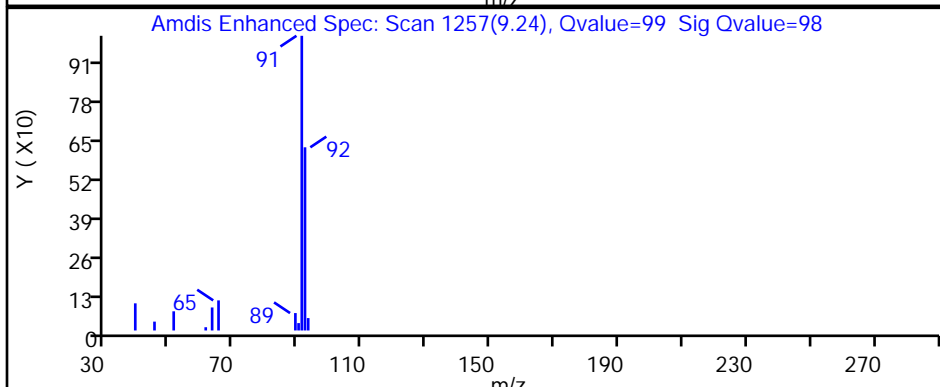
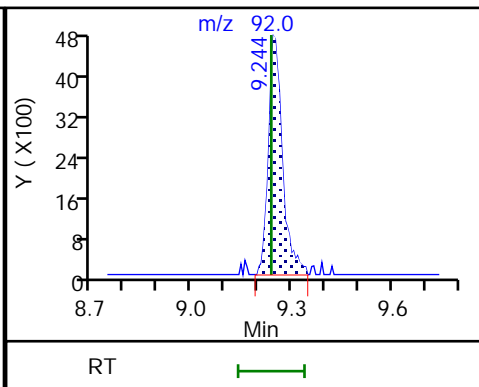
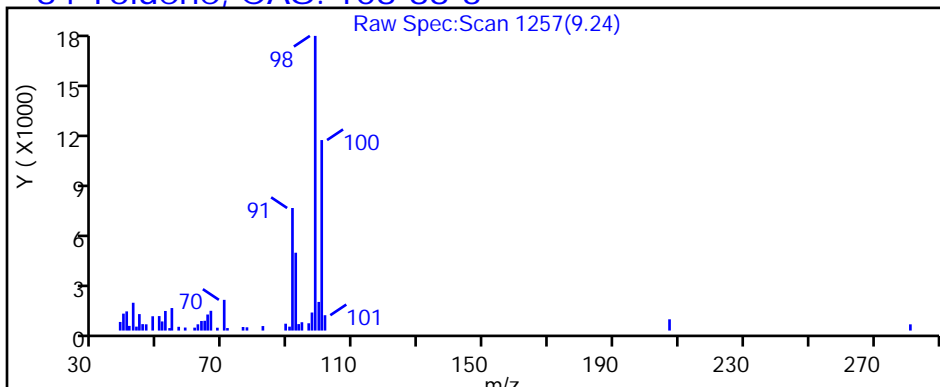
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

84 Toluene, CAS: 108-88-3



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X23.D

Injection Date: 01-Jun-2023 04:56:30

Instrument ID: 10193

Lims ID: 410-127761-A-11

Lab Sample ID: 410-127761-11

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

Operator ID: gaw91131

ALS Bottle#: 23

Worklist Smp#: 24

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

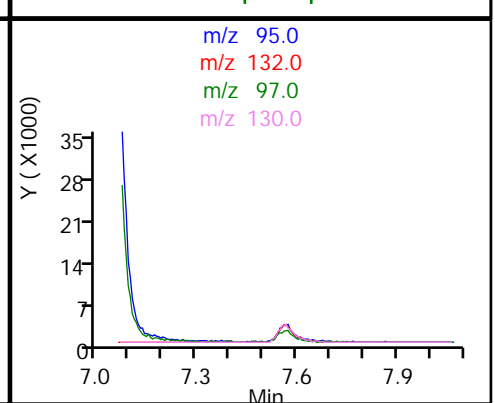
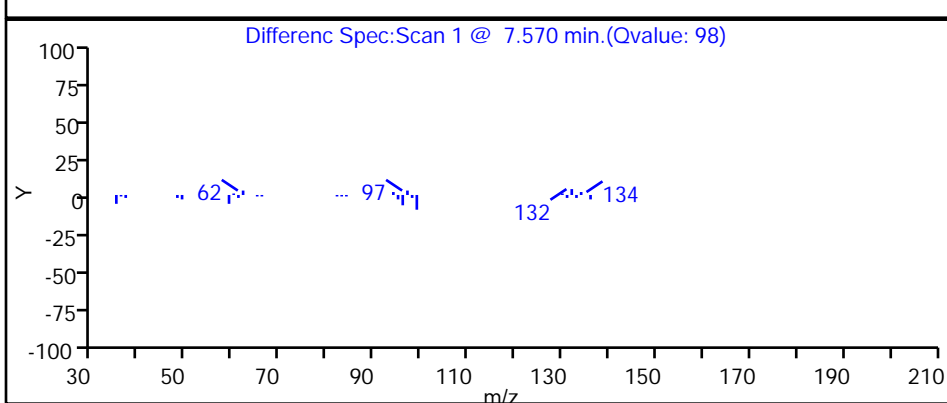
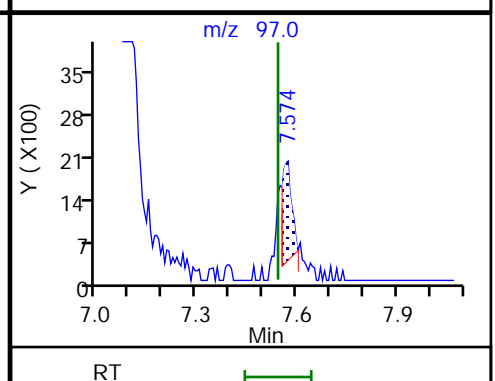
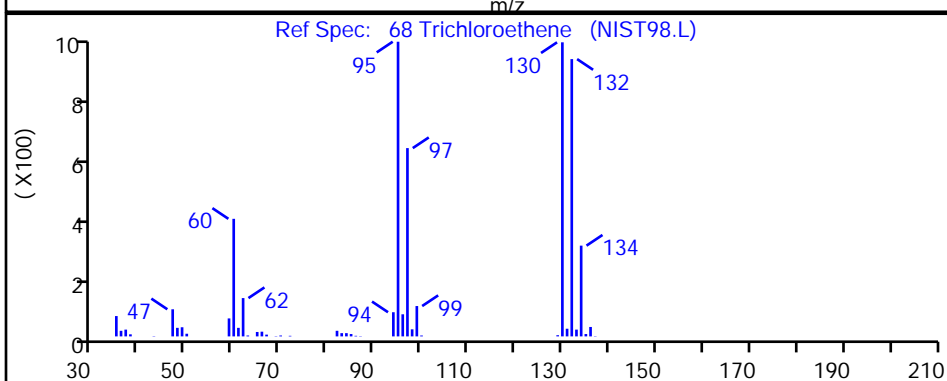
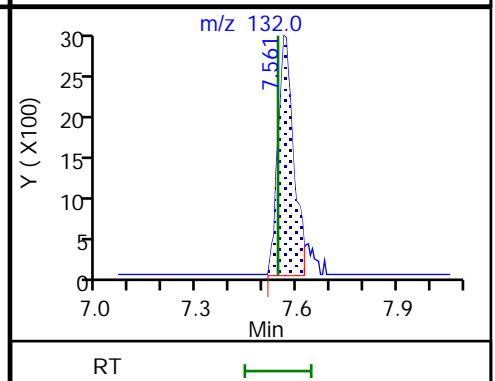
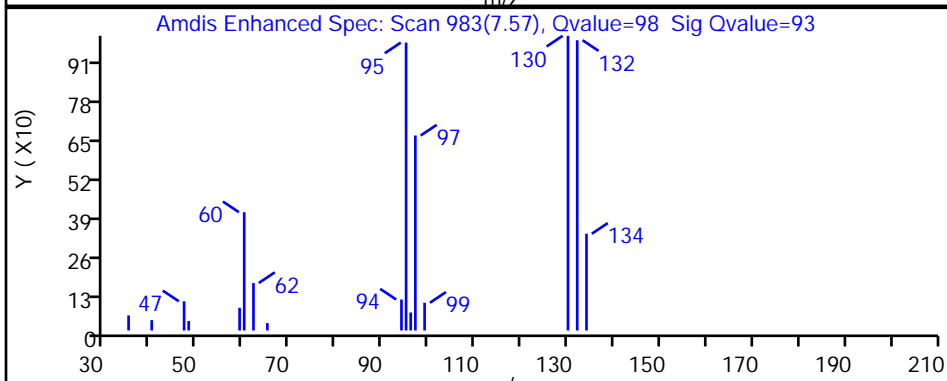
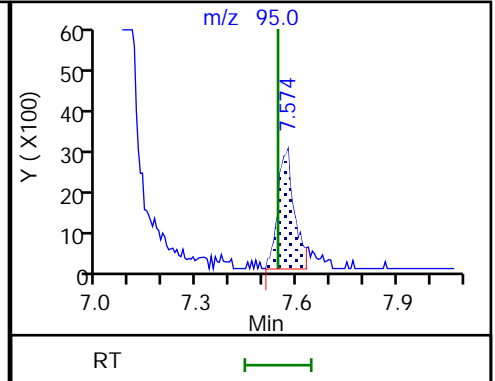
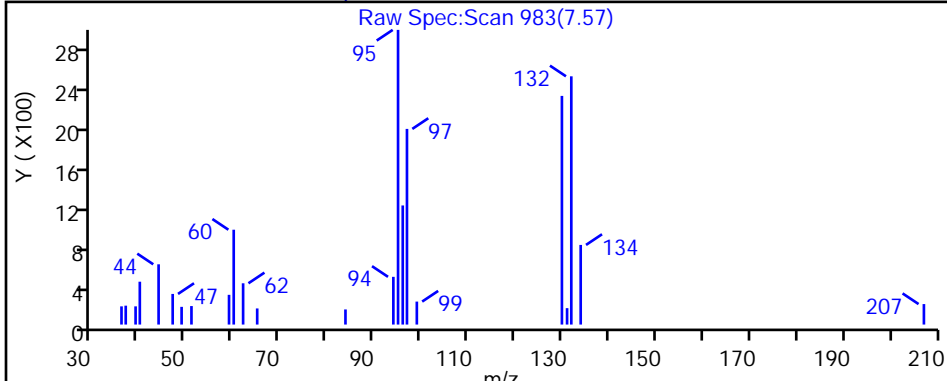
Method: MSV_10193_25mL

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

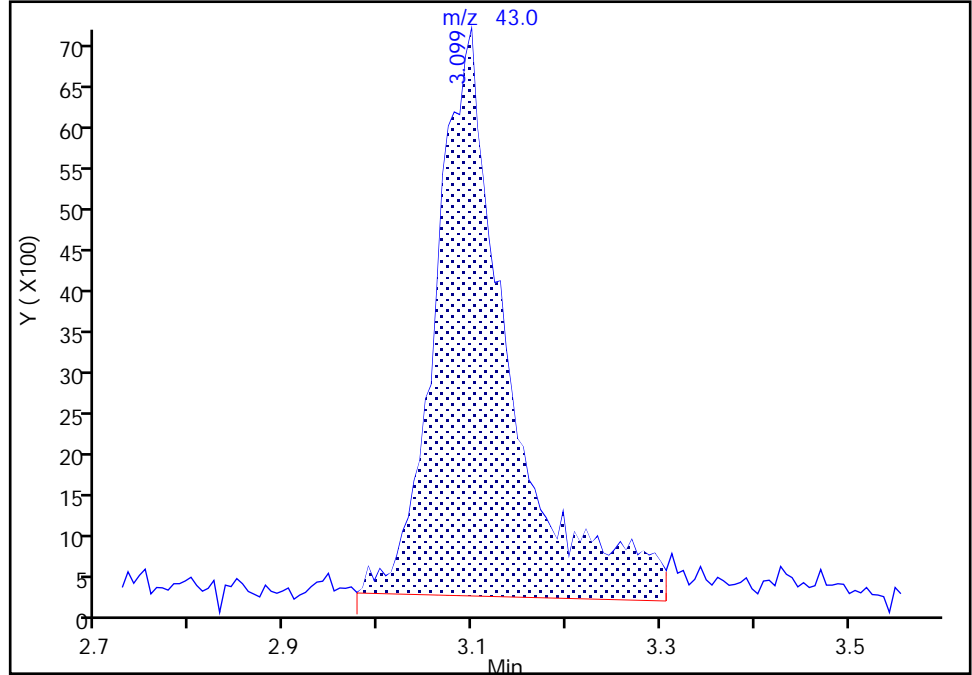
Data File:	\\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X23.D		
Injection Date:	01-Jun-2023 04:56:30	Instrument ID:	10193
Lims ID:	410-127761-A-11	Lab Sample ID:	410-127761-11
Client ID:	HD-COD-SW-28-0/1-0		
Operator ID:	gaw91131	ALS Bottle#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D
Column:	Rxi-624Sil MS Capillary Column (0.25mm ID)	Detector:	MS Quad
		Worklist Smp#:	24

20 Acetone, CAS: 67-64-1

Signal: 1

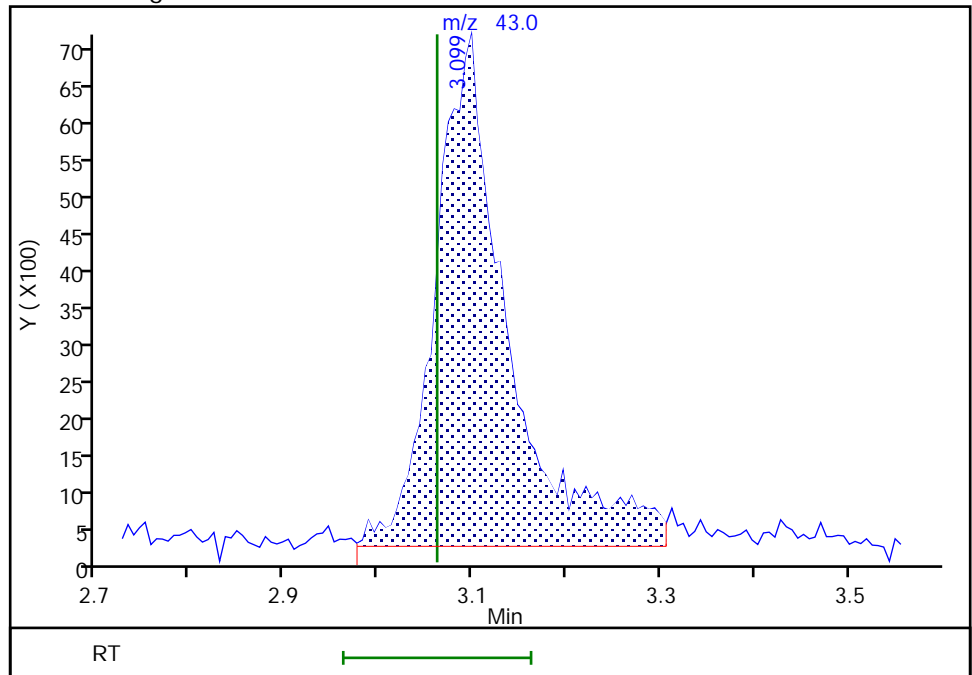
RT: 3.10
 Area: 37523
 Amount: 4.544097
 Amount Units: ug/l

Processing Integration Results



RT: 3.10
 Area: 37452
 Amount: 4.535499
 Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Jun-2023 14:16:46 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

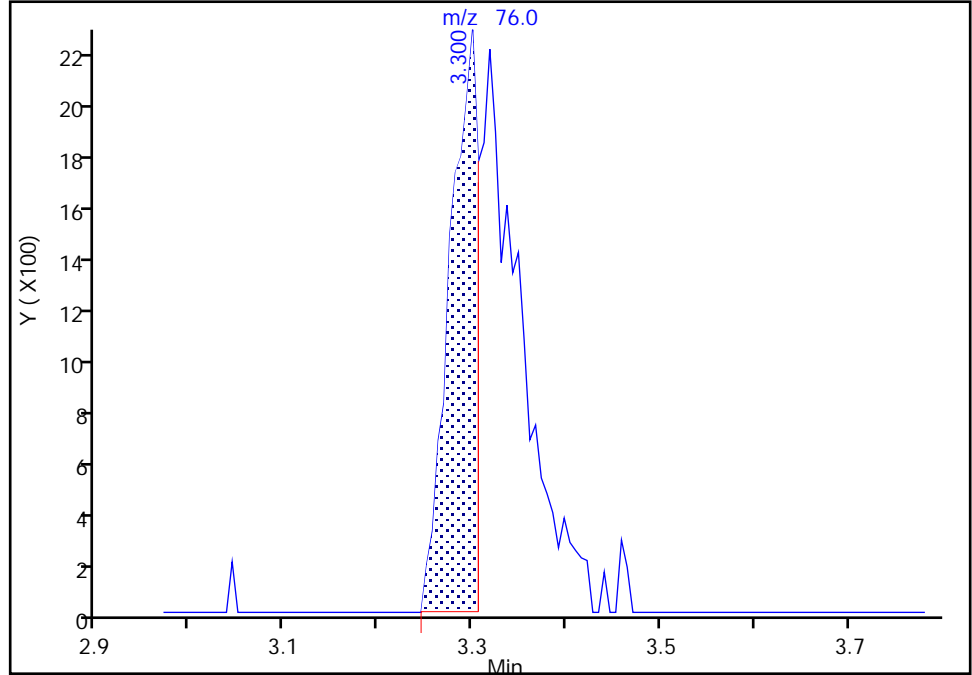
Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X23.D
Injection Date: 01-Jun-2023 04:56:30 Instrument ID: 10193
Lims ID: 410-127761-A-11 Lab Sample ID: 410-127761-11
Client ID: HD-COD-SW-28-0/1-0
Operator ID: gaw91131 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

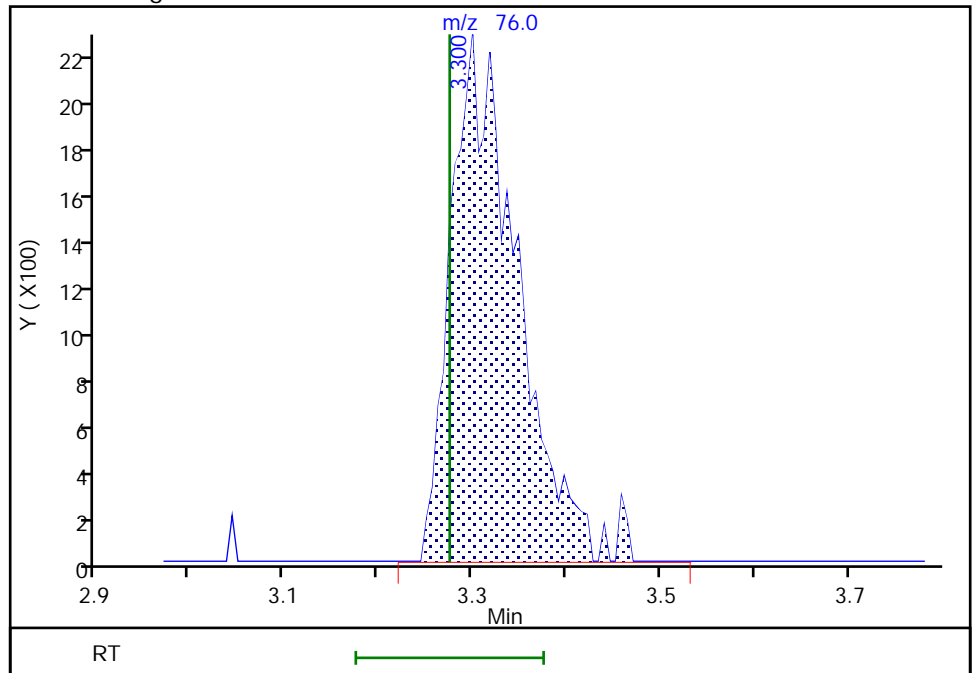
RT: 3.30
Area: 4654
Amount: 0.028675
Amount Units: ug/l

Processing Integration Results



RT: 3.30
Area: 10951
Amount: 0.067474
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Jun-2023 14:16:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-12

Matrix: Water

Lab File ID: CY31X24.D

Analysis Method: 8260D

Date Collected: 05/23/2023 09:07

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 05:18

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.: 381658

Units: ug/L

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	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	3.4	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.22	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.37	J	0.50	0.20
108-88-3	Toluene	0.080	J	0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-12

Matrix: Water

Lab File ID: CY31X24.D

Analysis Method: 8260D

Date Collected: 05/23/2023 09:07

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 05:18

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.: 381658

Units: ug/L

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	0.20	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		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\10193\20230531-85466.b\CY31X24.D
 Lims ID: 410-127761-A-12
 Client ID: HD-COD-SW-29-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 05:18:30 ALS Bottle#: 24 Worklist Smp#: 25
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-025
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 14:19:01 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1678

First Level Reviewer: DVW2

Date: 01-Jun-2023 14:18:18

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.873	1.879	-0.006	99	7769	0.0969	
6 Vinyl chloride	62		1.983				ND	7
9 Bromomethane	94		2.264				ND	7
10 Chloroethane	64		2.325				ND	
18 1,1-Dichloroethene	96		3.032				ND	7
20 Acetone	43	3.099	3.062	0.037	99	29184	3.44	
25 Carbon disulfide	76	3.294	3.276	0.018	96	6373	0.0397	M
30 Methylene Chloride	84		3.580				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.654	3.641	0.013	97	178154	50.0	
34 Methyl tert-butyl ether	73		3.928				ND	7
35 trans-1,2-Dichloroethene	96		3.934				ND	
37 1,1-Dichloroethane	63		4.556				ND	7
42 2-Butanone (MEK)	43		5.409				ND	7
43 cis-1,2-Dichloroethene	96	5.452	5.421	0.031	79	13381	0.2169	
48 Chlorobromomethane	128		5.757				ND	
50 Chloroform	83	5.940	5.921	0.019	93	7146	0.0699	
53 1,1,1-Trichloroethane	97		6.135				ND	7
\$ 54 Dibromofluoromethane (Surr)	113	6.153	6.141	0.012	94	446764	9.40	
56 Carbon tetrachloride	117		6.348				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.622	6.604	0.018	99	95392	10.2	
60 Benzene	78		6.629				ND	7
61 1,2-Dichloroethane	62		6.714				ND	
* 65 Fluorobenzene (IS)	96	7.061	7.049	0.012	99	1824558	10.0	
68 Trichloroethene	95	7.555	7.543	0.012	98	12618	0.2041	Ma
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.244				ND	7
80 cis-1,3-Dichloropropene	75		8.817				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.024				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.159	9.152	0.007	93	1950316	10.4	
84 Toluene	92	9.250	9.238	0.012	98	11613	0.0800	
85 trans-1,3-Dichloropropene	75		9.543				ND	
87 1,1,2-Trichloroethane	97		9.762				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	9.854	9.841	0.013	98	25137	0.3670	
106 2-Hexanone	43		10.006				ND	7
108 Chlorodibromomethane	129		10.158				ND	
110 Ethylene Dibromide	107		10.268				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.738	10.738	0.000	85	1575319	10.0	
113 Chlorobenzene	112		10.762				ND	
114 1,1,1,2-Tetrachloroethane	131		10.853				ND	
115 Ethylbenzene	91		10.859				ND	7
116 m-Xylene & p-Xylene	106		10.981				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.323				ND	7
119 Styrene	104		11.341				ND	7
120 Bromoform	173		11.500				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.786	0.006	94	729374	9.07	
126 1,1,2,2-Tetrachloroethane	83		11.902				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.694	12.688	0.006	94	891702	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_HP25_ISSS_00070

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X24.D

Injection Date: 01-Jun-2023 05:18:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-127761-A-12

Lab Sample ID: 410-127761-12

Worklist Smp#: 25

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

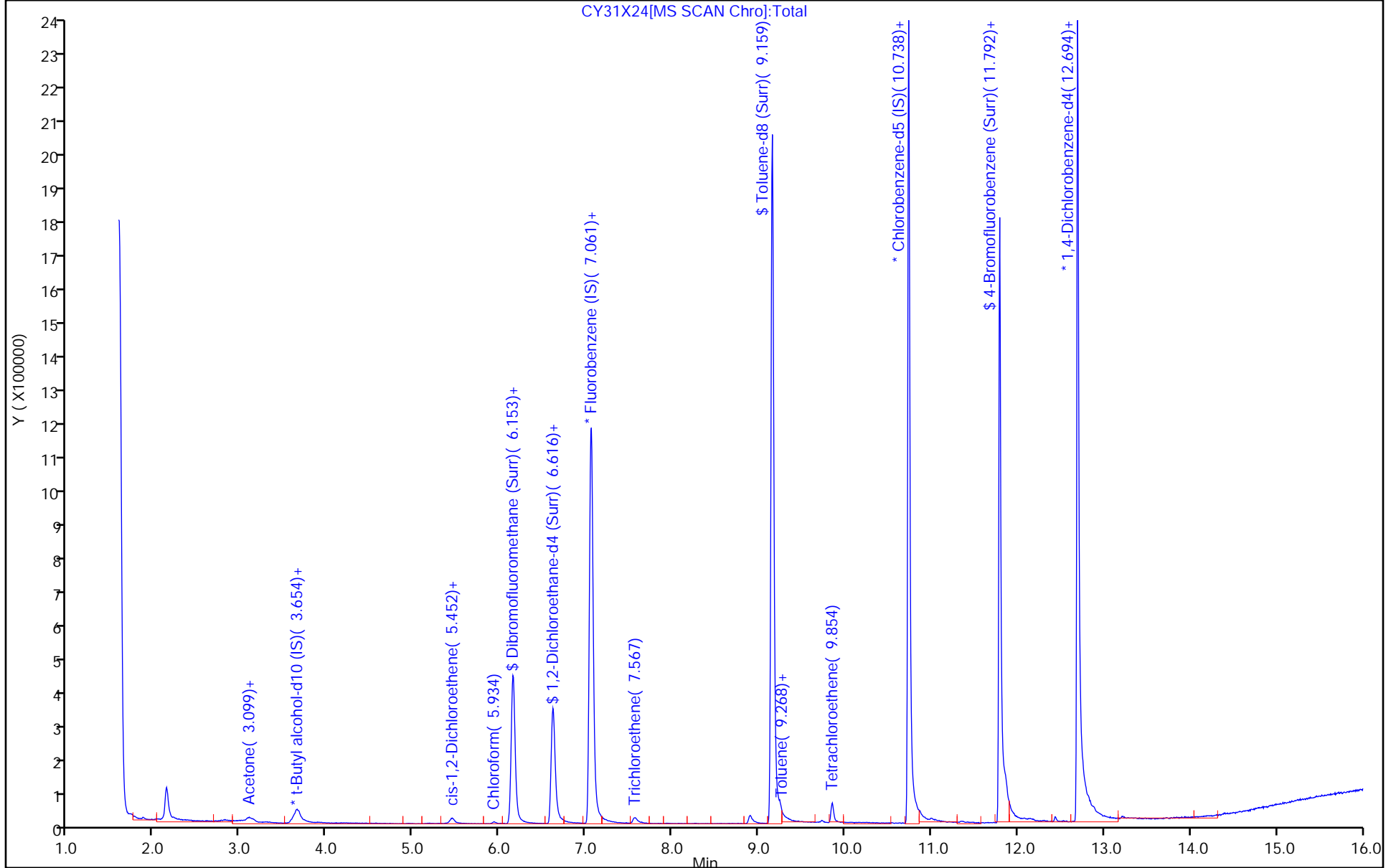
ALS Bottle#: 24

Method: MSV_10193_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\10193\20230531-85466.b\CY31X24.D
 Lims ID: 410-127761-A-12
 Client ID: HD-COD-SW-29-0/1-0
 Sample Type: Client
 Inject. Date: 01-Jun-2023 05:18:30 ALS Bottle#: 24 Worklist Smp#: 25
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-025
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 14:19:01 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1678

First Level Reviewer: DVW2

Date: 01-Jun-2023 14:18:18

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.40	94.02
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	101.86
\$ 83 Toluene-d8 (Surr)	10.0	10.4	103.65
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.07	90.70

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X24.D

Injection Date: 01-Jun-2023 05:18:30

Instrument ID: 10193

Lims ID: 410-127761-A-12

Lab Sample ID: 410-127761-12

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

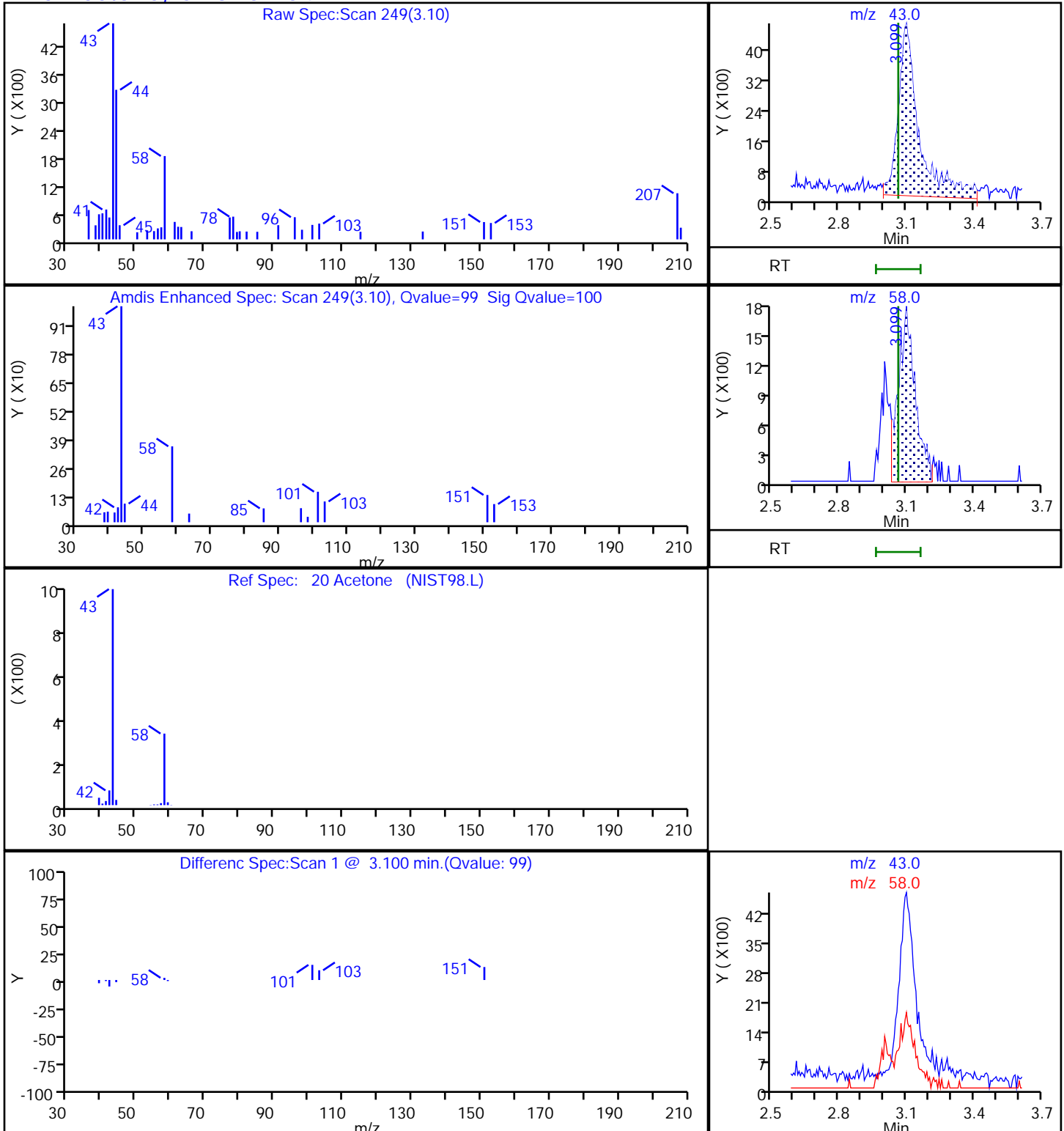
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

20 Acetone, CAS: 67-64-1



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X24.D

Injection Date: 01-Jun-2023 05:18:30

Instrument ID: 10193

Lims ID: 410-127761-A-12

Lab Sample ID: 410-127761-12

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

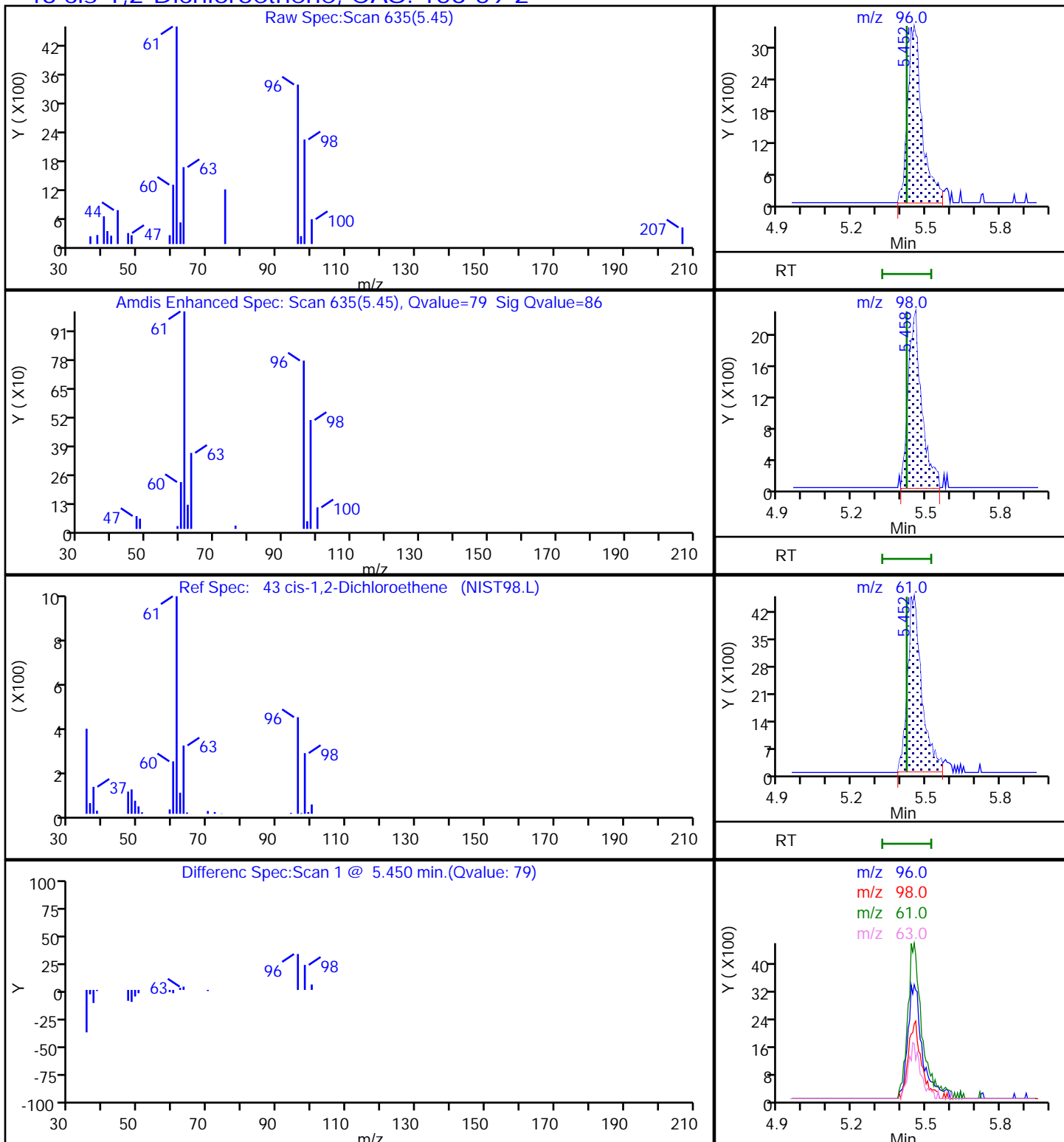
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X24.D

Injection Date: 01-Jun-2023 05:18:30

Instrument ID: 10193

Lims ID: 410-127761-A-12

Lab Sample ID: 410-127761-12

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

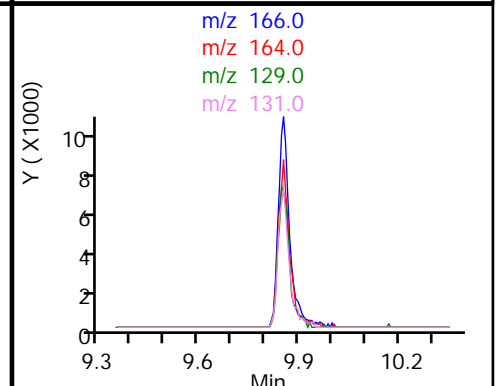
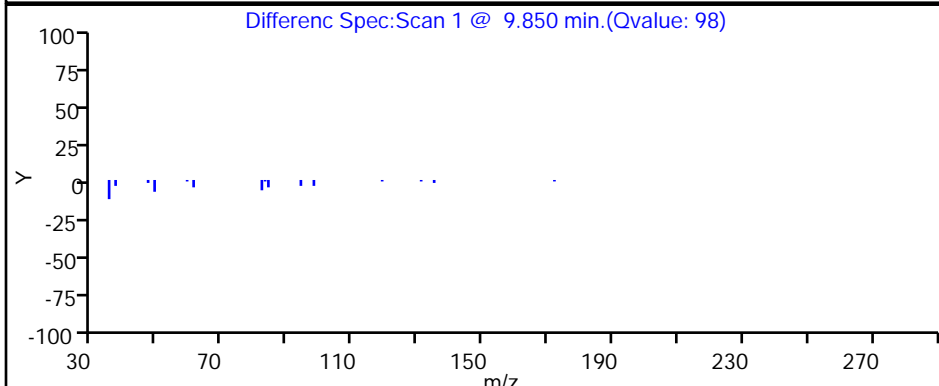
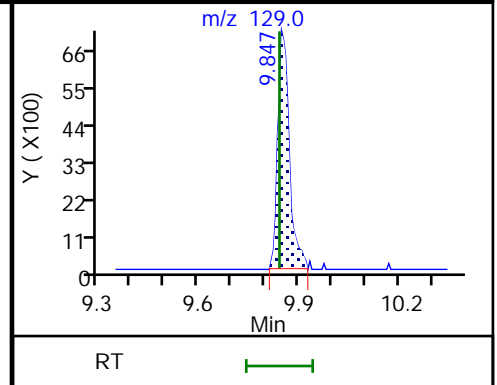
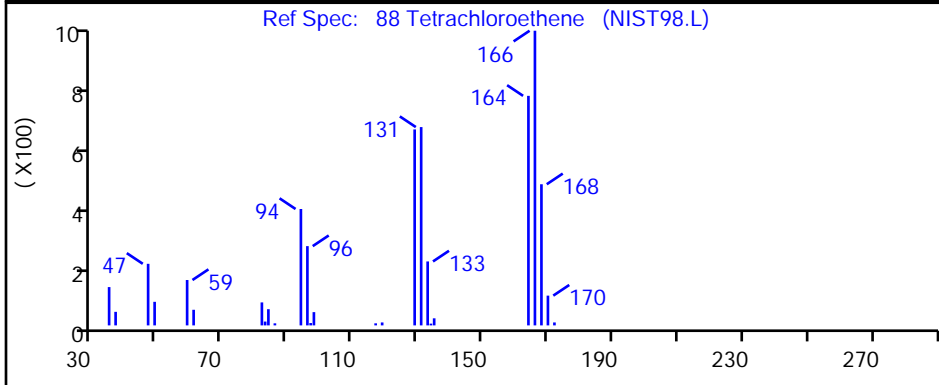
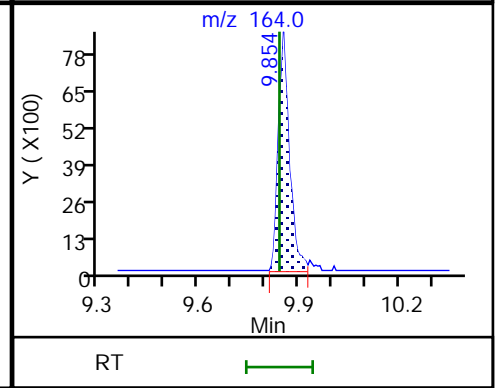
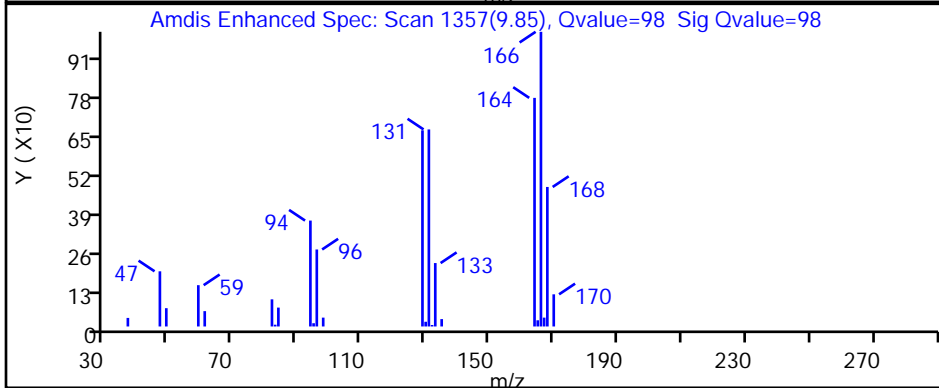
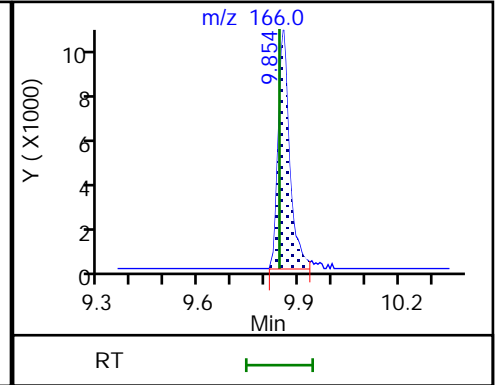
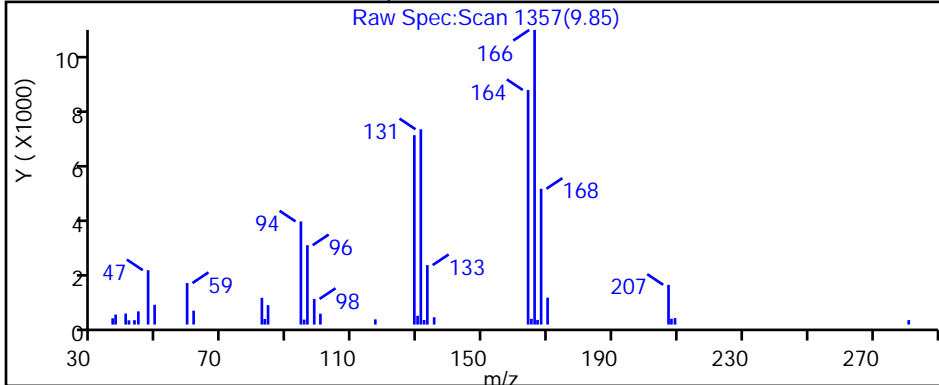
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

88 Tetrachloroethene, CAS: 127-18-4



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X24.D

Injection Date: 01-Jun-2023 05:18:30

Instrument ID: 10193

Lims ID: 410-127761-A-12

Lab Sample ID: 410-127761-12

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

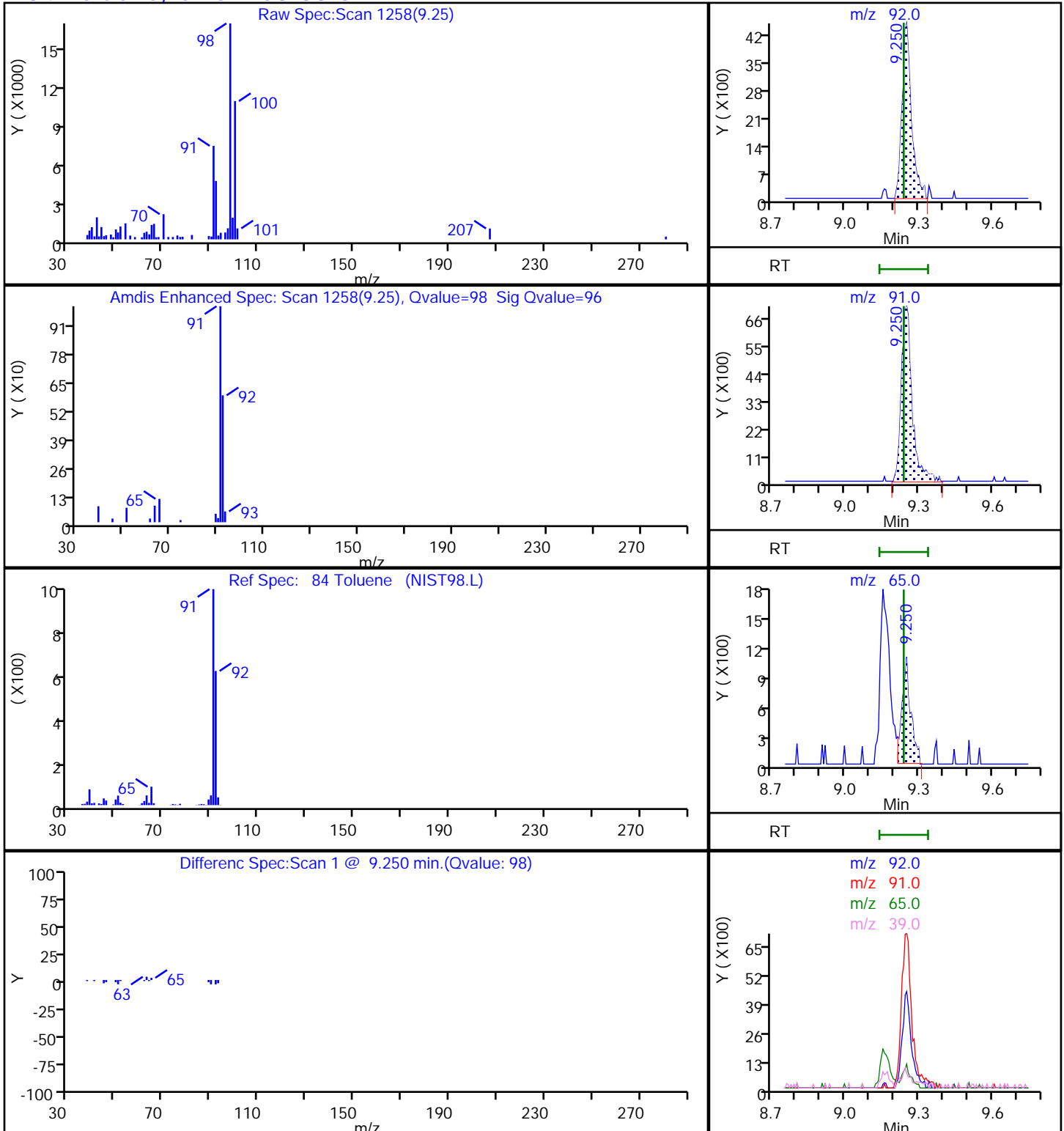
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

84 Toluene, CAS: 108-88-3



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X24.D

Injection Date: 01-Jun-2023 05:18:30

Instrument ID: 10193

Lims ID: 410-127761-A-12

Lab Sample ID: 410-127761-12

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

Operator ID: gaw91131

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

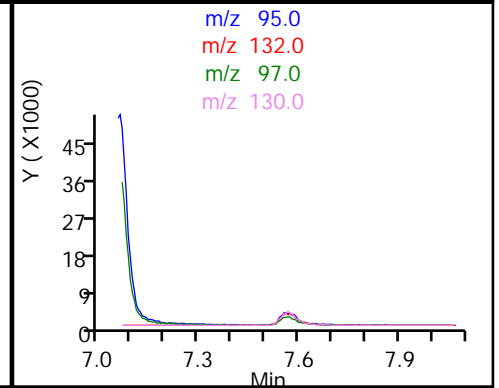
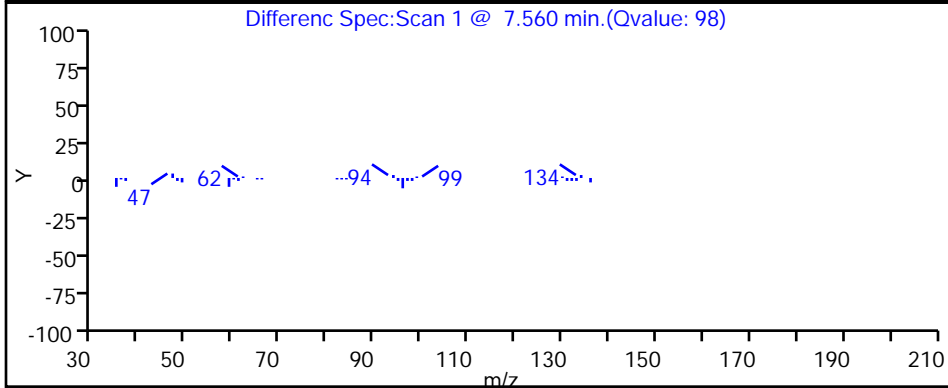
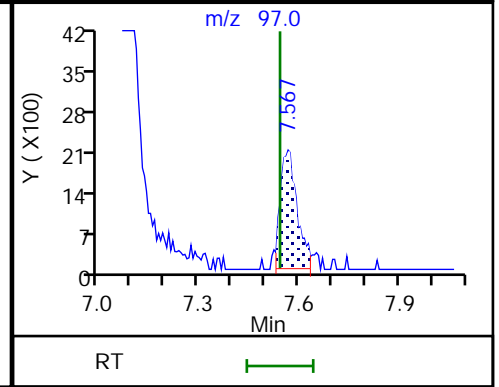
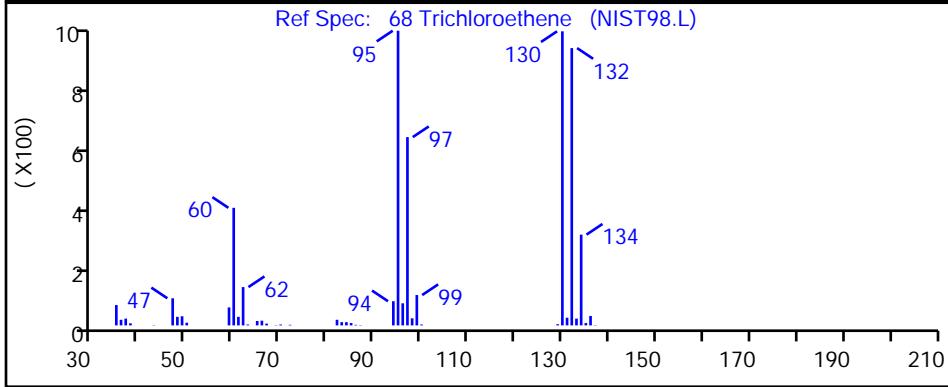
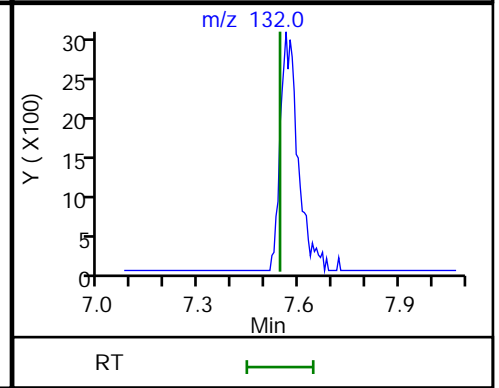
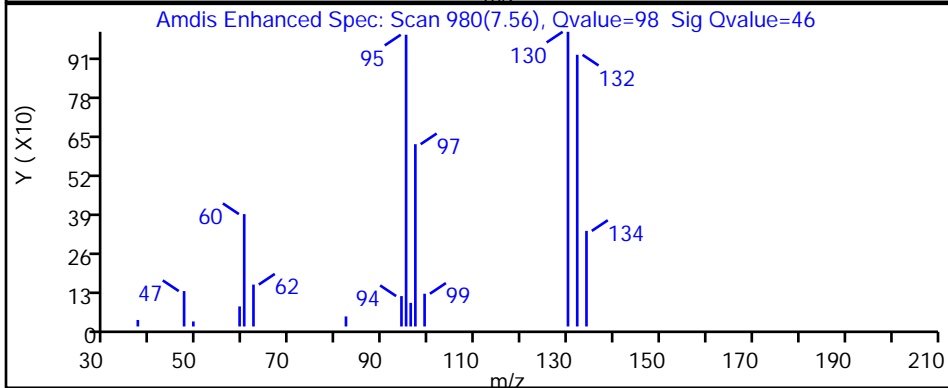
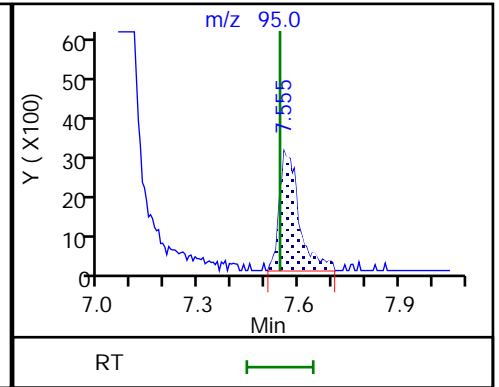
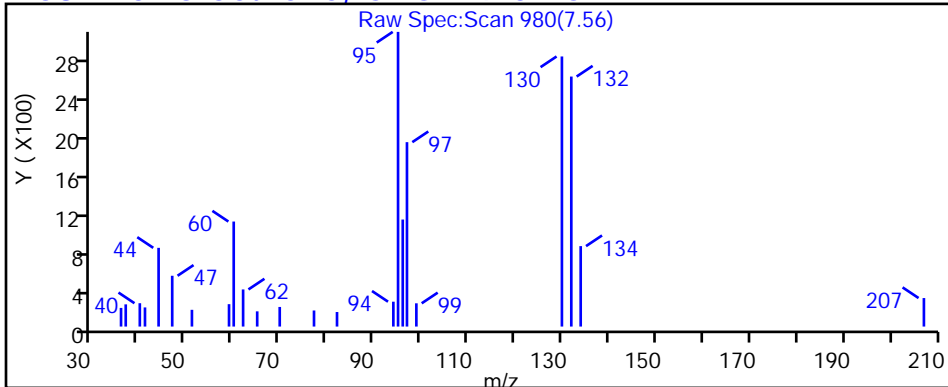
Method: MSV_10193_25mL

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

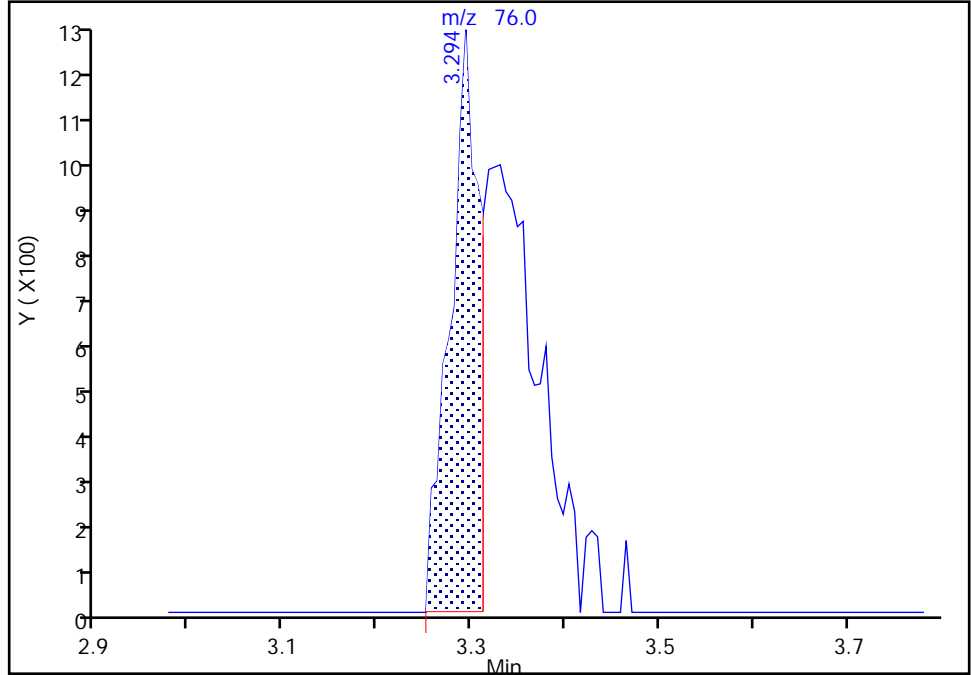
Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X24.D
Injection Date: 01-Jun-2023 05:18:30 Instrument ID: 10193
Lims ID: 410-127761-A-12 Lab Sample ID: 410-127761-12
Client ID: HD-COD-SW-29-0/1-0
Operator ID: gaw91131 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

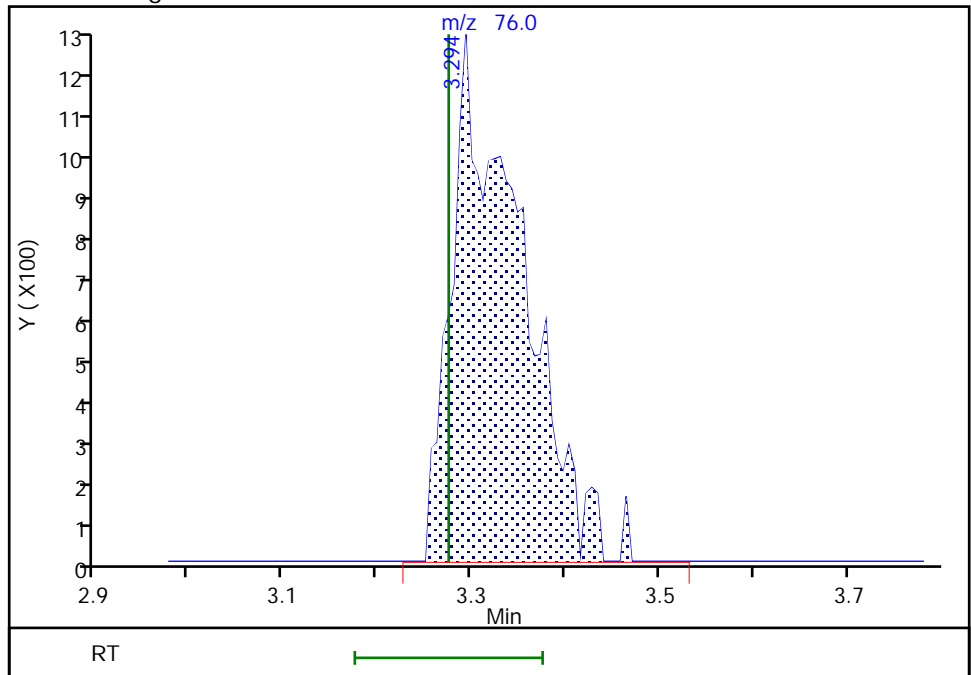
RT: 3.29
Area: 2647
Amount: 0.016489
Amount Units: ug/l

Processing Integration Results



RT: 3.29
Area: 6373
Amount: 0.039700
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 01-Jun-2023 14:17:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

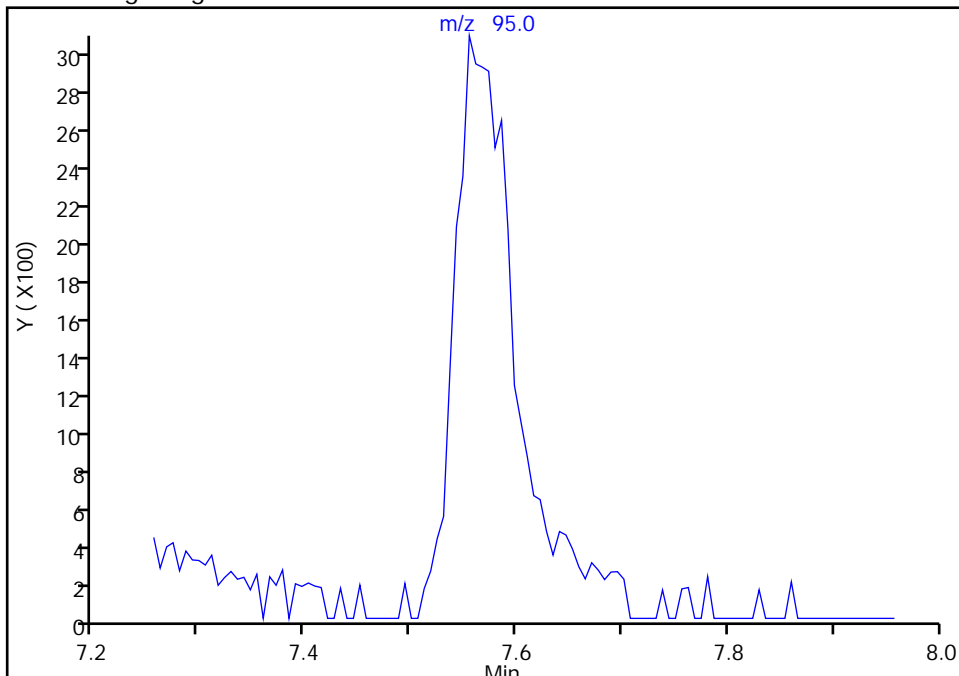
Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X24.D
Injection Date: 01-Jun-2023 05:18:30 Instrument ID: 10193
Lims ID: 410-127761-A-12 Lab Sample ID: 410-127761-12
Client ID: HD-COD-SW-29-0/1-0
Operator ID: gaw91131 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_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

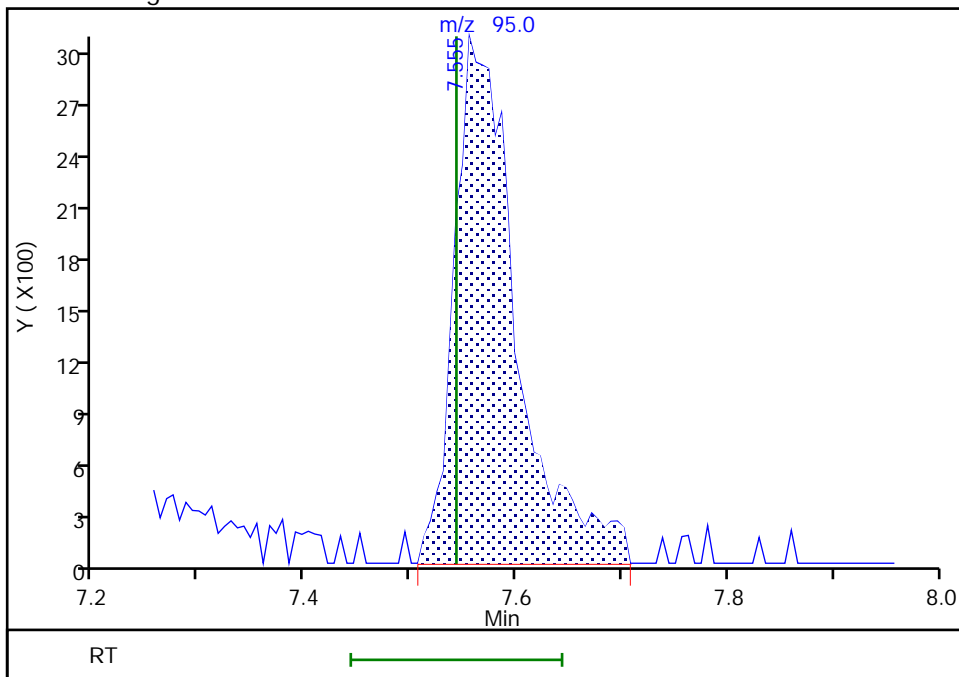
Not Detected
Expected RT: 7.54

Processing Integration Results



Manual Integration Results

RT: 7.56
Area: 12618
Amount: 0.204066
Amount Units: ug/l



Reviewer: DVW2, 01-Jun-2023 14:18:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-13

Matrix: Water

Lab File ID: CY31X25.D

Analysis Method: 8260D

Date Collected: 05/23/2023 12:00

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 05:40

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.: 381658

Units: ug/L

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	2.9		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	0.70		0.50	0.10
75-35-4	1,1-Dichloroethene	0.32	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	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.0	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.16	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	2.8		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	0.10
100-42-5	Styrene	ND		0.50	0.070
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-13

Matrix: Water

Lab File ID: CY31X25.D

Analysis Method: 8260D

Date Collected: 05/23/2023 12:00

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 05:40

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.: 381658

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	2.0		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		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\10193\20230531-85466.b\CY31X25.D
 Lims ID: 410-127761-A-13
 Client ID: HD-QC1-0/1-1
 Sample Type: Client
 Inject. Date: 01-Jun-2023 05:40:30 ALS Bottle#: 25 Worklist Smp#: 26
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-026
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 14:19:01 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1678

First Level Reviewer: DVW2

Date: 01-Jun-2023 14:19:01

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.873	1.879	-0.006	96	5740	0.0707	
6 Vinyl chloride	62	1.989	1.983	0.006	96	5069	0.0653	
9 Bromomethane	94		2.264			ND		7
10 Chloroethane	64		2.325			ND		
18 1,1-Dichloroethene	96	3.056	3.032	0.024	98	14946	0.3196	
20 Acetone	43	3.105	3.062	0.043	99	17628	2.00	
25 Carbon disulfide	76		3.276			ND		MU
30 Methylene Chloride	84		3.580			ND		7
* 31 t-Butyl alcohol-d10 (IS)	65	3.654	3.641	0.013	97	185358	50.0	
34 Methyl tert-butyl ether	73	3.934	3.928	0.006	67	4237	0.0262	
35 trans-1,2-Dichloroethene	96	3.971	3.934	0.037	71	1874	0.0328	
37 1,1-Dichloroethane	63	4.574	4.556	0.018	96	72801	0.7035	
42 2-Butanone (MEK)	43		5.409			ND		7
43 cis-1,2-Dichloroethene	96	5.440	5.421	0.019	79	177621	2.84	
48 Chlorobromomethane	128		5.757			ND		
50 Chloroform	83	5.940	5.921	0.019	92	17051	0.1647	
53 1,1,1-Trichloroethane	97	6.147	6.135	0.012	98	260462	2.85	
\$ 54 Dibromofluoromethane (Surr)	113	6.153	6.141	0.012	94	451418	9.38	
56 Carbon tetrachloride	117		6.348			ND		7
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.604	0.012	99	93651	9.87	
60 Benzene	78		6.629			ND		7
61 1,2-Dichloroethane	62		6.714			ND		7
* 65 Fluorobenzene (IS)	96	7.061	7.049	0.012	99	1848160	10.0	
68 Trichloroethene	95	7.561	7.543	0.018	98	124312	1.98	
70 1,2-Dichloropropane	63		7.878			ND		
76 Dichlorobromomethane	83		8.244			ND		
80 cis-1,3-Dichloropropene	75		8.817			ND		
82 4-Methyl-2-pentanone (MIBK)	43		9.024			ND		7
\$ 83 Toluene-d8 (Surr)	98	9.159	9.152	0.007	93	1970129	10.3	
84 Toluene	92	9.250	9.238	0.012	97	7033	0.0476	
85 trans-1,3-Dichloropropene	75		9.543			ND		
87 1,1,2-Trichloroethane	97		9.762			ND		7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	9.841	9.841	0.000	97	3185674	45.7	E
106 2-Hexanone	43		10.006				ND	7
108 Chlorodibromomethane	129		10.158				ND	
110 Ethylene Dibromide	107		10.268				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.738	10.738	0.000	85	1604255	10.0	
113 Chlorobenzene	112		10.762				ND	
114 1,1,1,2-Tetrachloroethane	131		10.853				ND	7
115 Ethylbenzene	91		10.859				ND	7
116 m-Xylene & p-Xylene	106		10.981				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.323				ND	7
119 Styrene	104		11.341				ND	7
120 Bromoform	173		11.500				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.786	0.006	94	741151	9.05	
126 1,1,2,2-Tetrachloroethane	83		11.902				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.694	12.688	0.006	94	872131	10.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_HP25_ISSS_00070

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X25.D

Injection Date: 01-Jun-2023 05:40:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-127761-A-13

Lab Sample ID: 410-127761-13

Worklist Smp#: 26

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

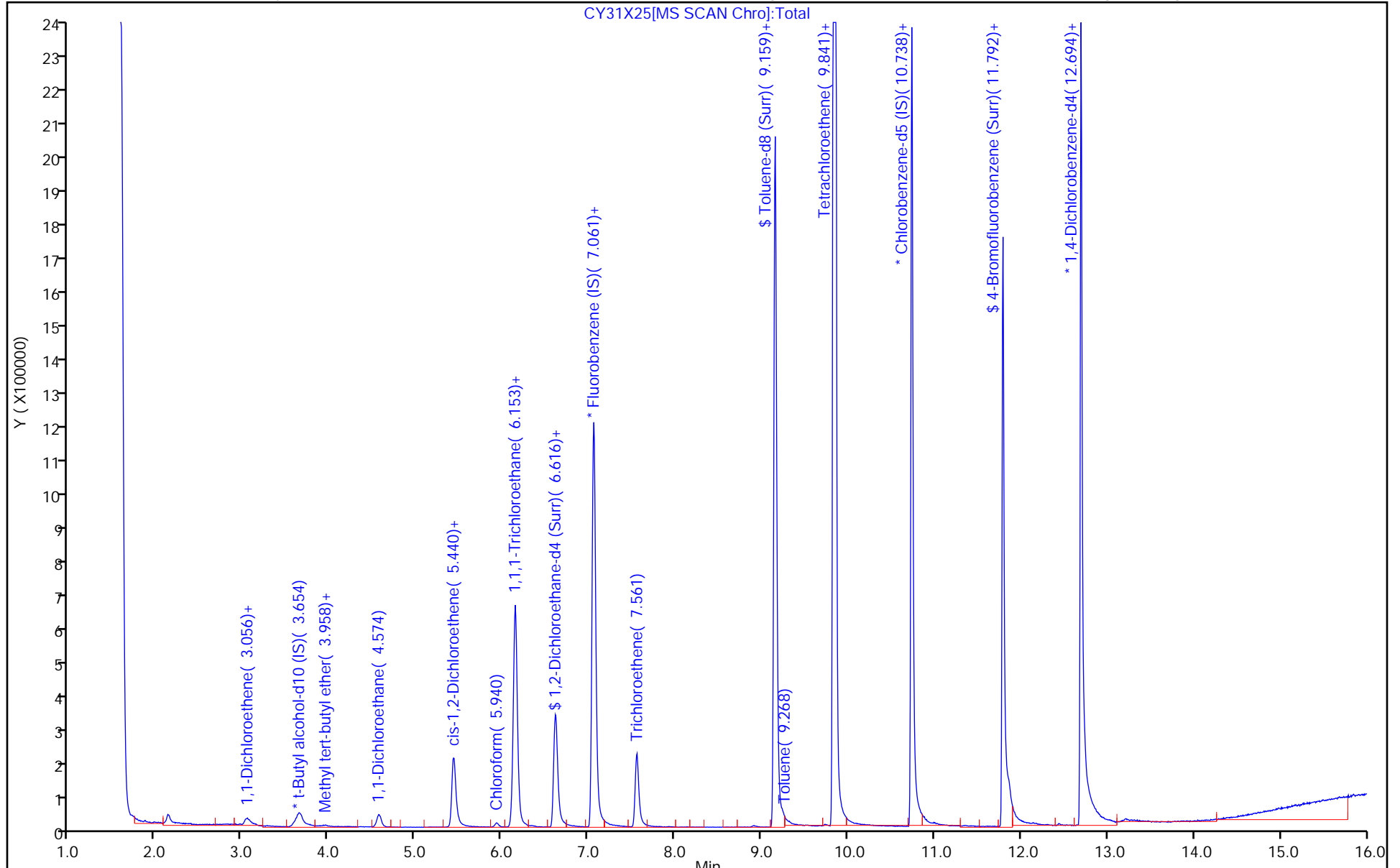
ALS Bottle#: 25

Method: MSV_10193_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\10193\20230531-85466.b\CY31X25.D
 Lims ID: 410-127761-A-13
 Client ID: HD-QC1-0/1-1
 Sample Type: Client
 Inject. Date: 01-Jun-2023 05:40:30 ALS Bottle#: 25 Worklist Smp#: 26
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-026
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 14:19:01 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1678

First Level Reviewer: DVW2

Date: 01-Jun-2023 14:19:01

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.38	93.79
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.87	98.72
\$ 83 Toluene-d8 (Surr)	10.0	10.3	102.82
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.05	90.50

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X25.D

Injection Date: 01-Jun-2023 05:40:30

Instrument ID: 10193

Lims ID: 410-127761-A-13

Lab Sample ID: 410-127761-13

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

Operator ID: gaw91131

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

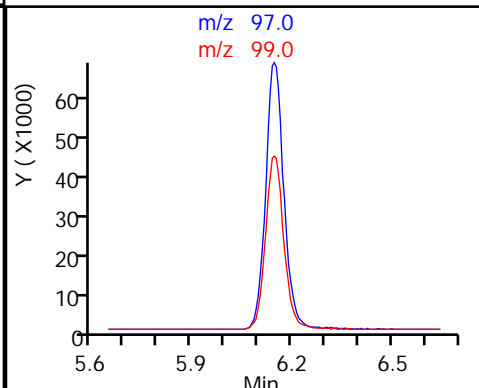
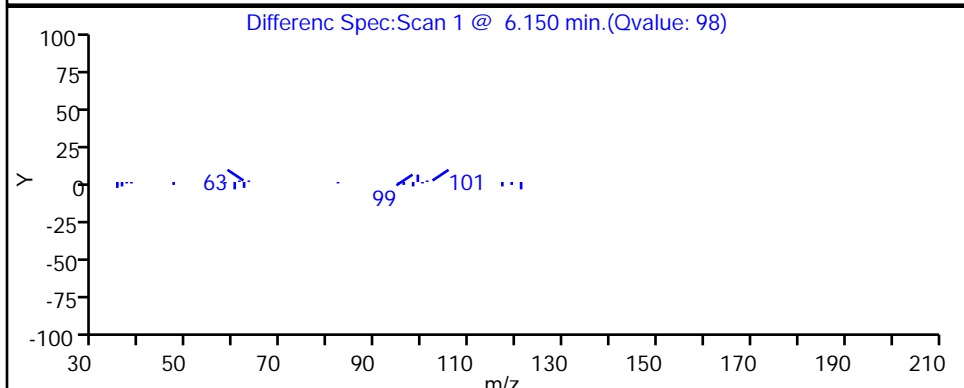
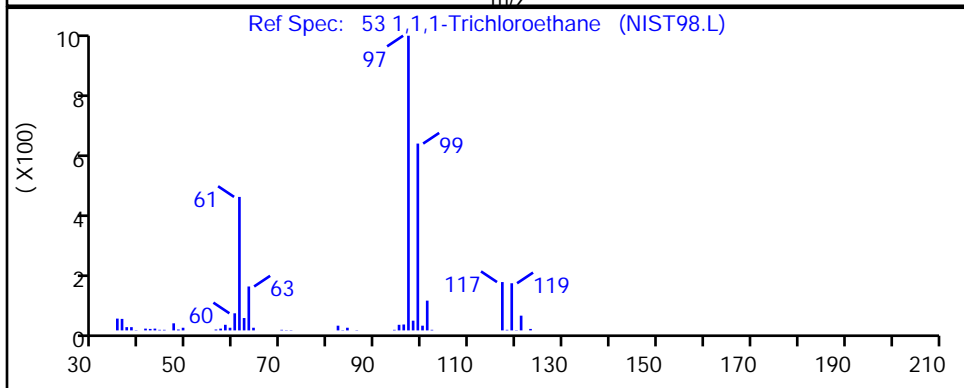
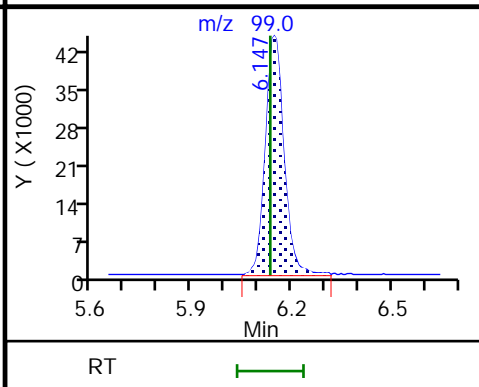
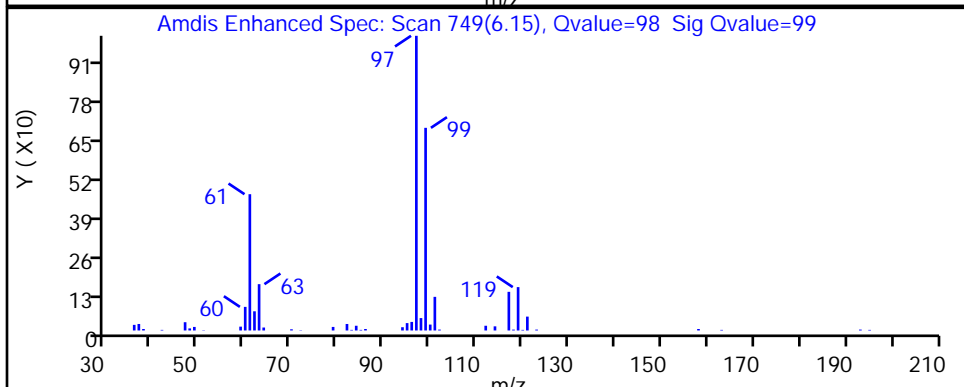
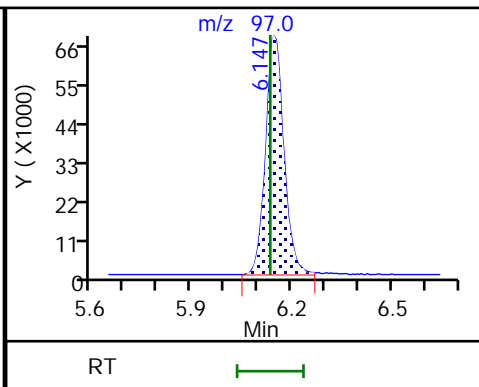
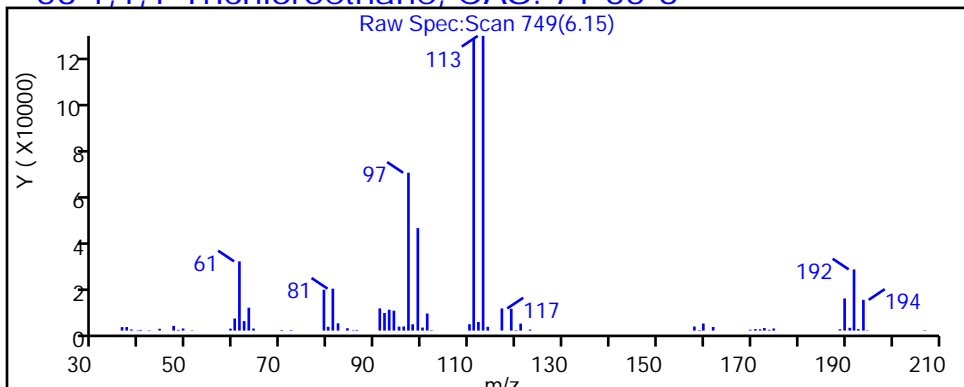
Method: MSV_10193_25mL

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



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X25.D

Injection Date: 01-Jun-2023 05:40:30

Instrument ID: 10193

Lims ID: 410-127761-A-13

Lab Sample ID: 410-127761-13

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

Operator ID: gaw91131

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

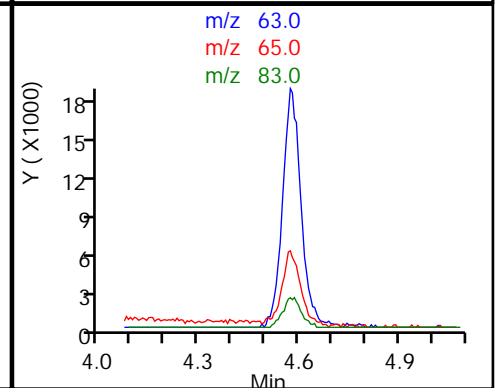
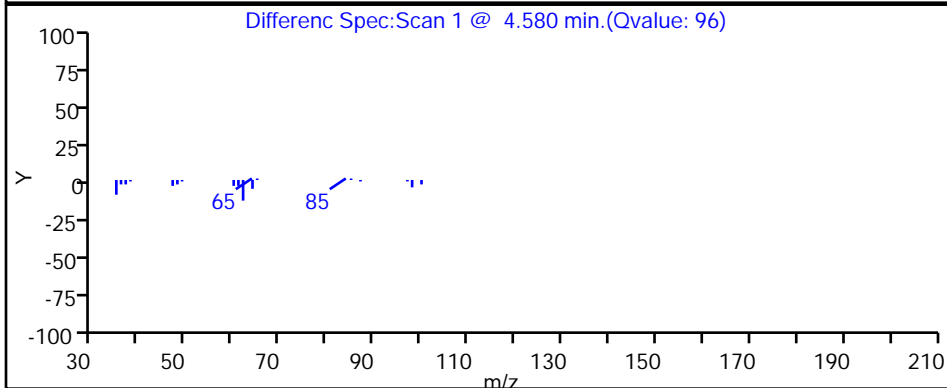
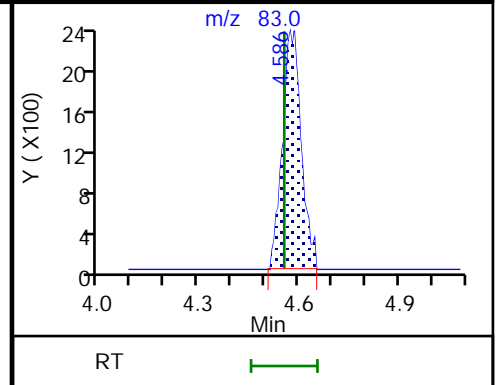
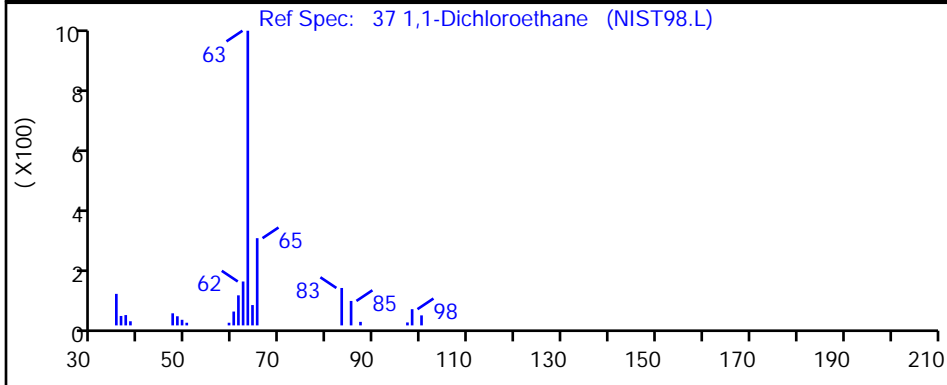
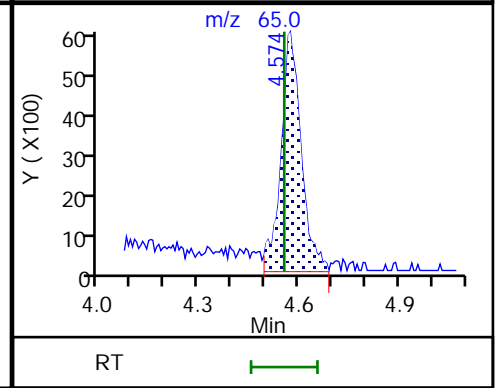
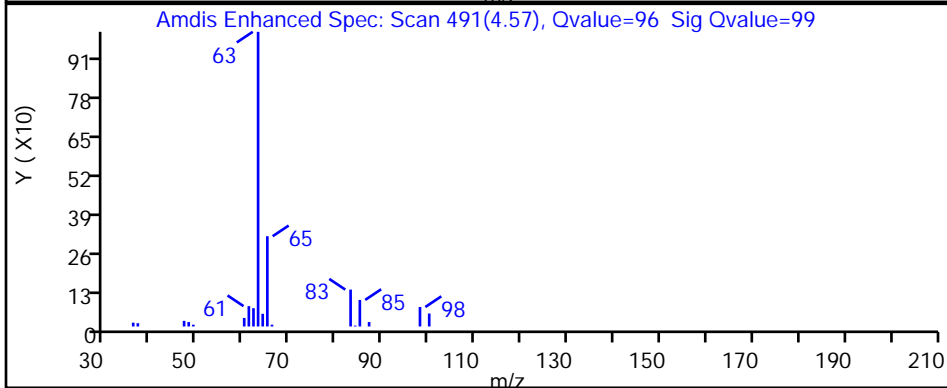
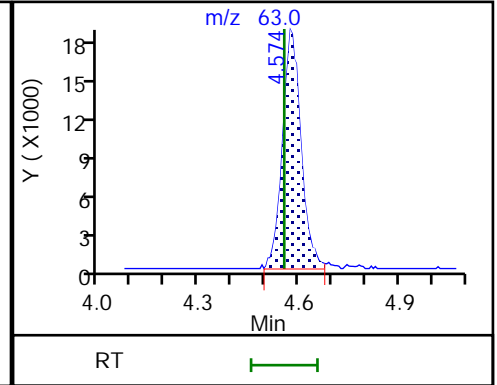
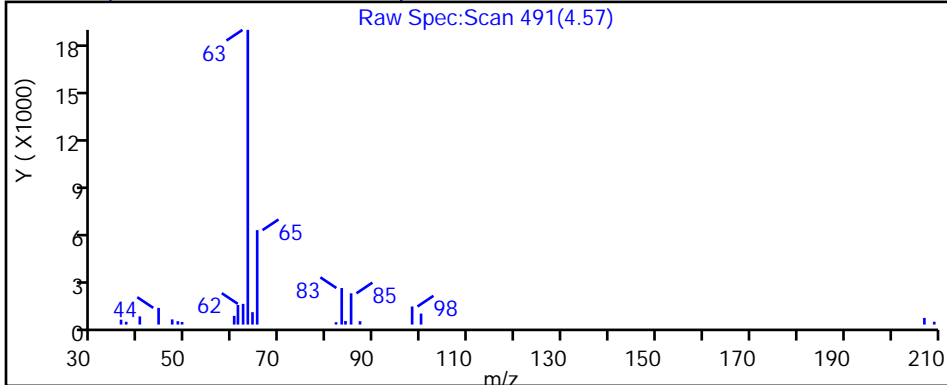
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

37 1,1-Dichloroethane, CAS: 75-34-3



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X25.D

Injection Date: 01-Jun-2023 05:40:30

Instrument ID: 10193

Lims ID: 410-127761-A-13

Lab Sample ID: 410-127761-13

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

Operator ID: gaw91131

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

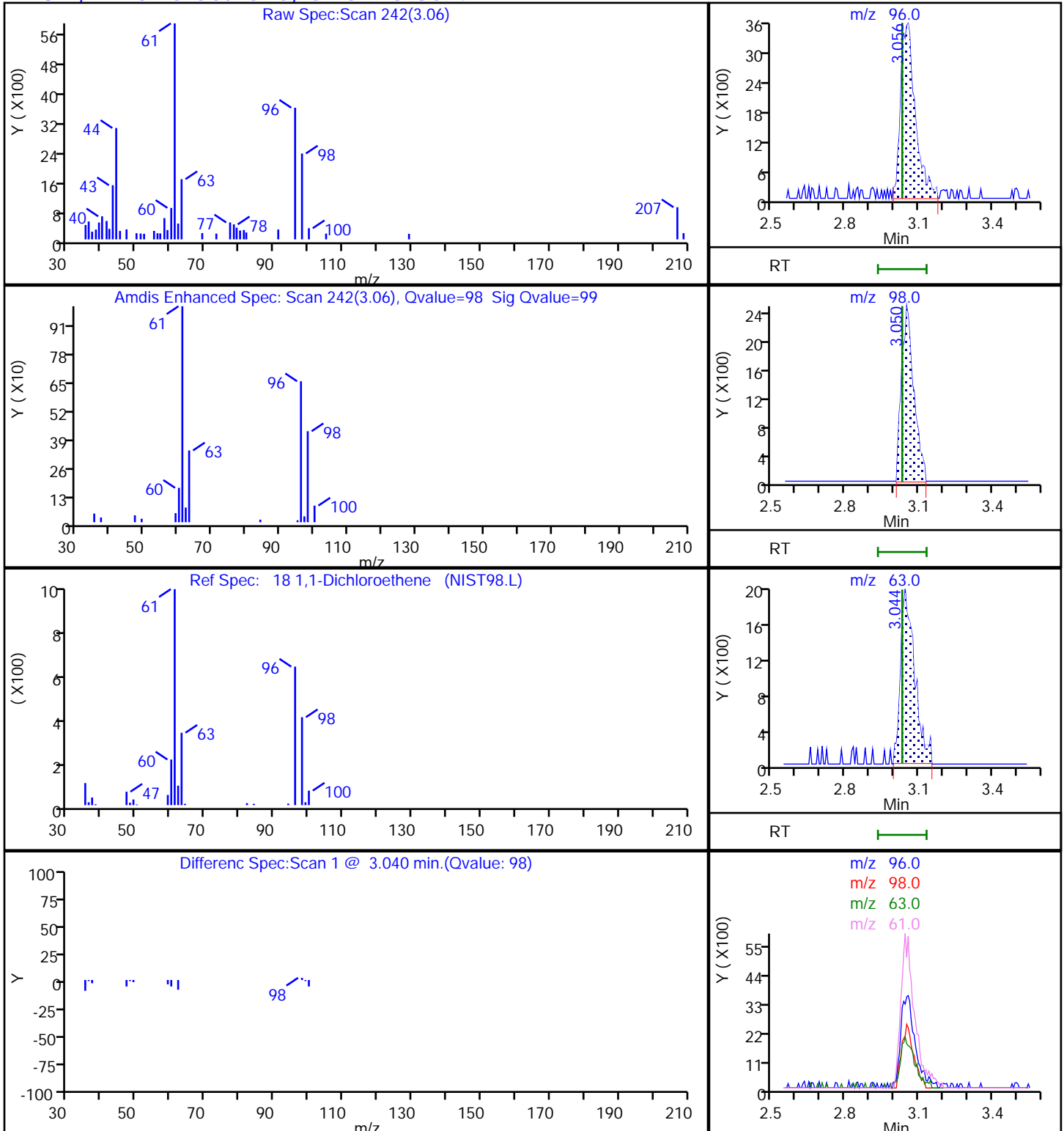
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

18 1,1-Dichloroethene, CAS: 75-35-4



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X25.D

Injection Date: 01-Jun-2023 05:40:30

Instrument ID: 10193

Lims ID: 410-127761-A-13

Lab Sample ID: 410-127761-13

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

Operator ID: gaw91131

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

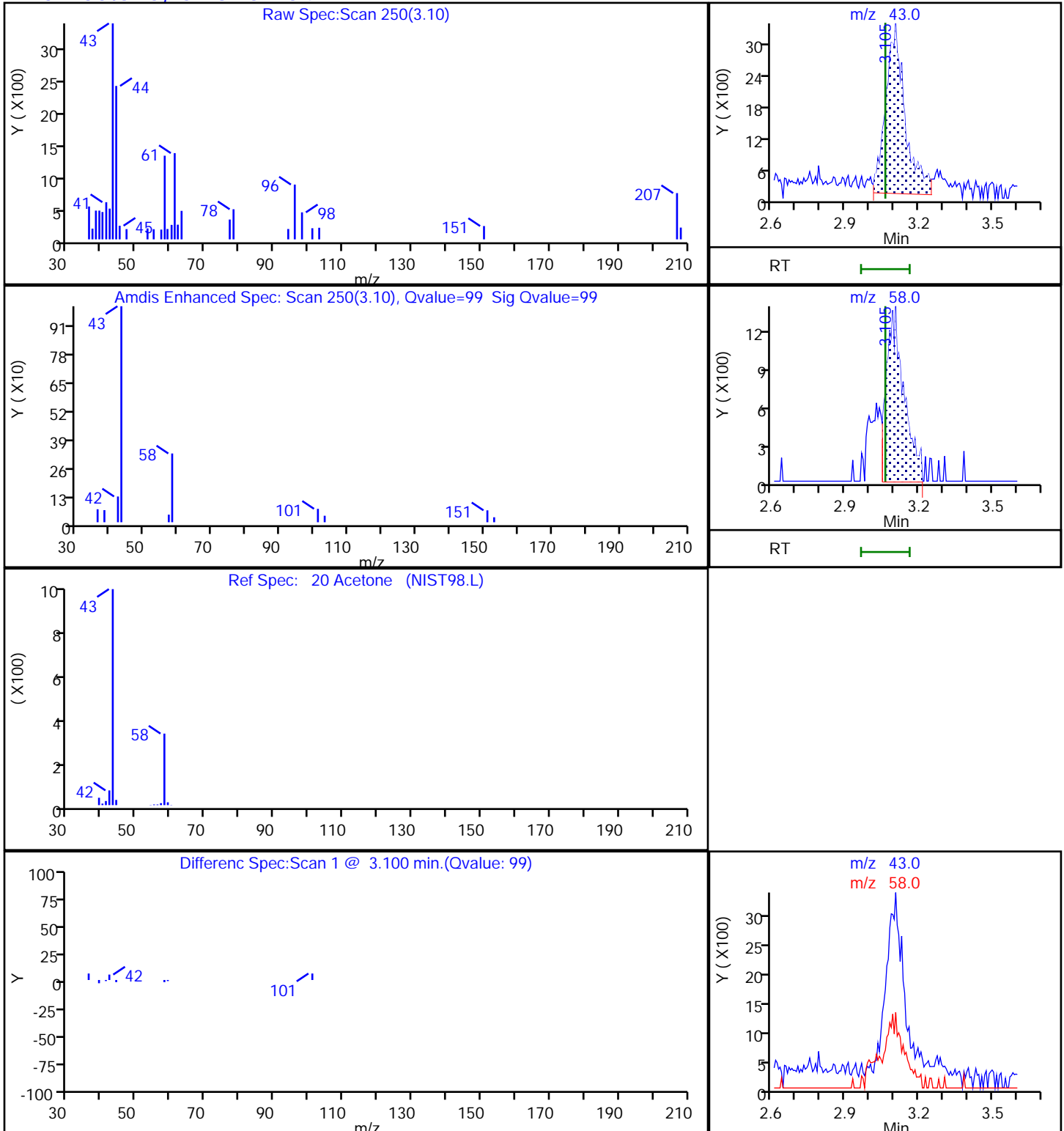
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

20 Acetone, CAS: 67-64-1



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X25.D

Injection Date: 01-Jun-2023 05:40:30

Instrument ID: 10193

Lims ID: 410-127761-A-13

Lab Sample ID: 410-127761-13

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

Operator ID: gaw91131

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

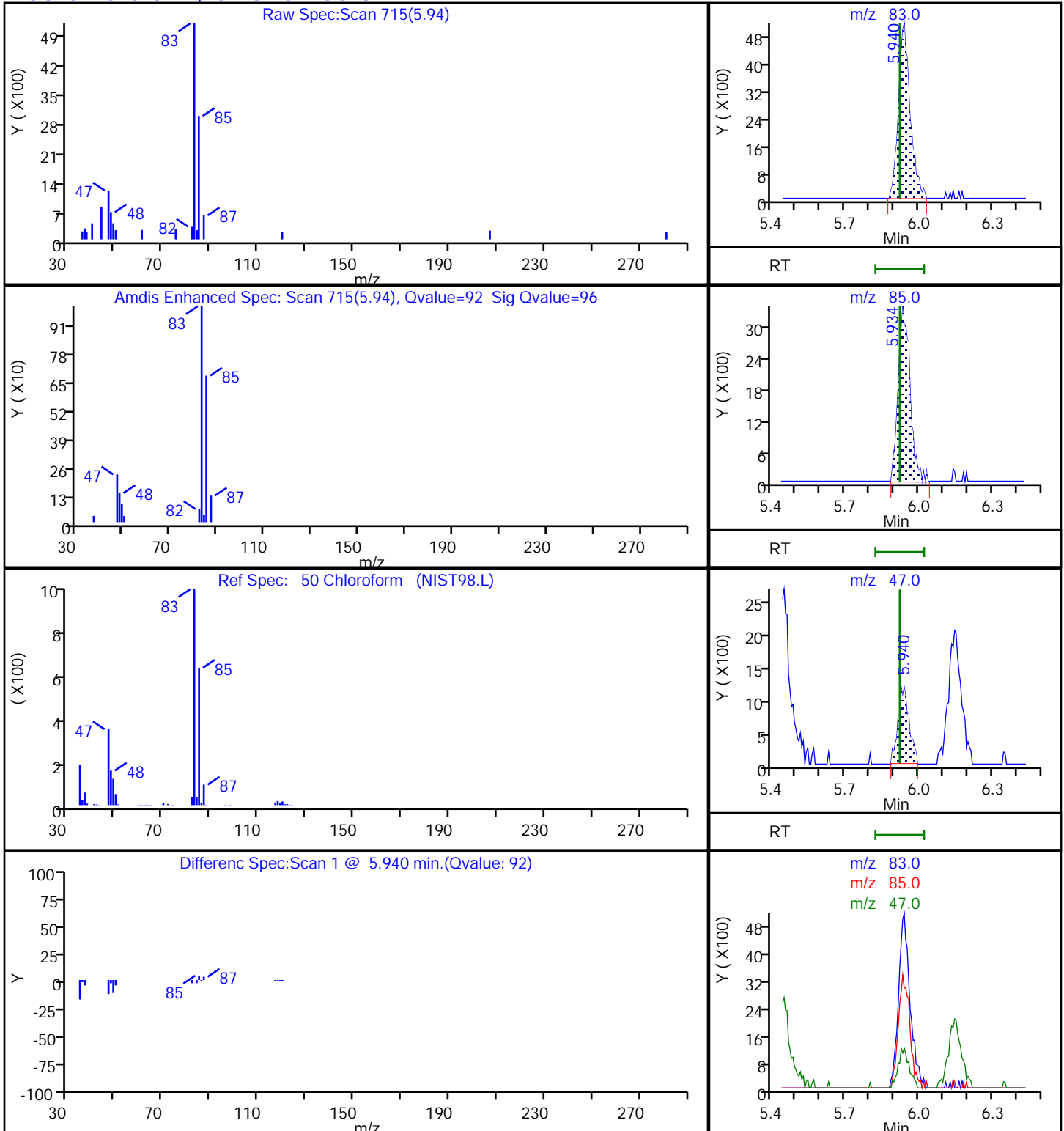
Method: MSV_10193_25mL

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\10193\20230531-85466.b\CY31X25.D

Injection Date: 01-Jun-2023 05:40:30

Instrument ID: 10193

Lims ID: 410-127761-A-13

Lab Sample ID: 410-127761-13

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

Operator ID: gaw91131

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

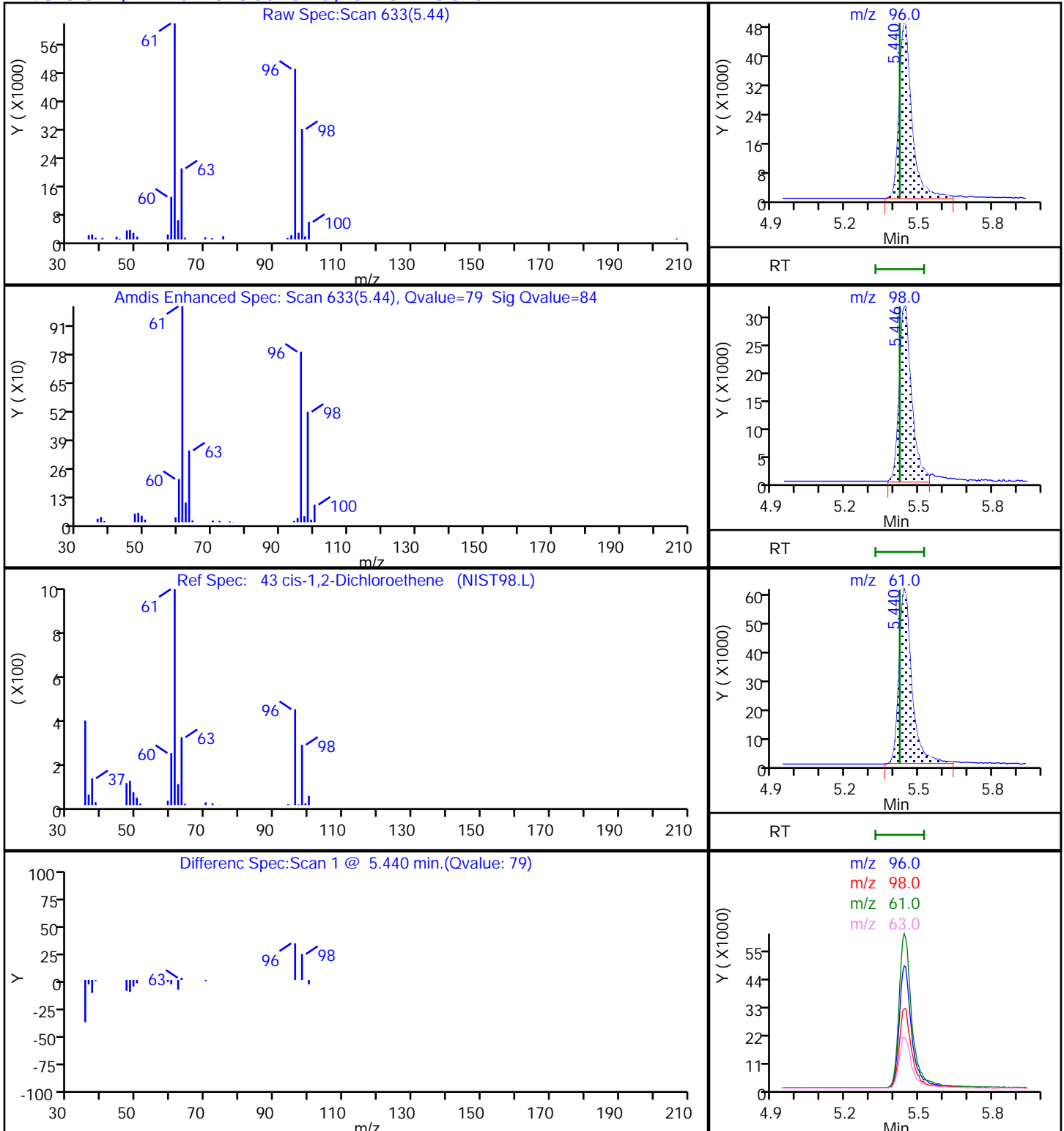
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

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



Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X25.D

Injection Date: 01-Jun-2023 05:40:30

Instrument ID: 10193

Lims ID: 410-127761-A-13

Lab Sample ID: 410-127761-13

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

Operator ID: gaw91131

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

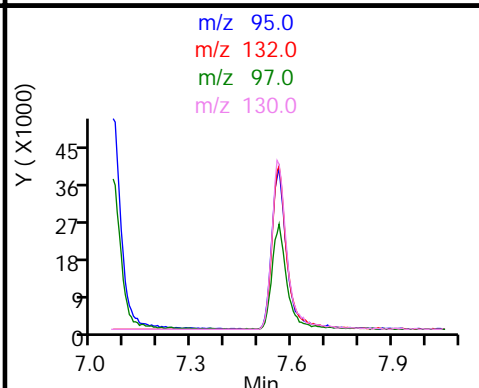
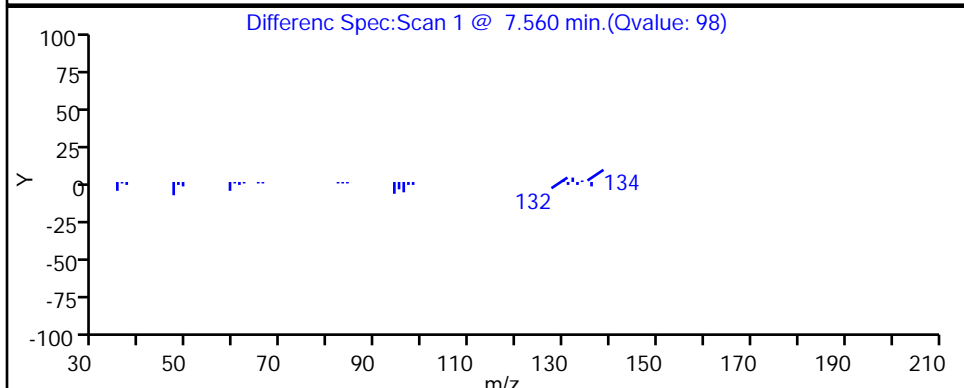
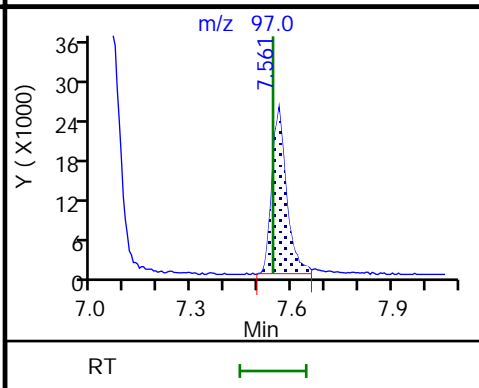
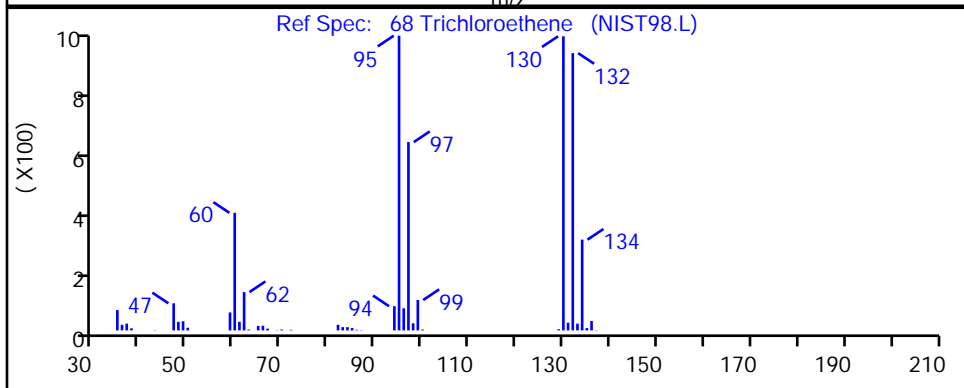
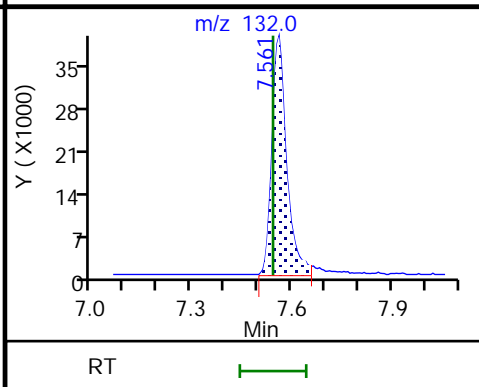
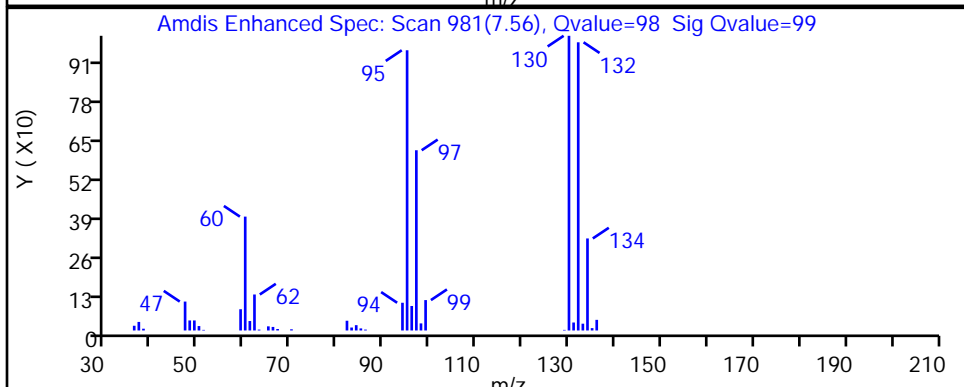
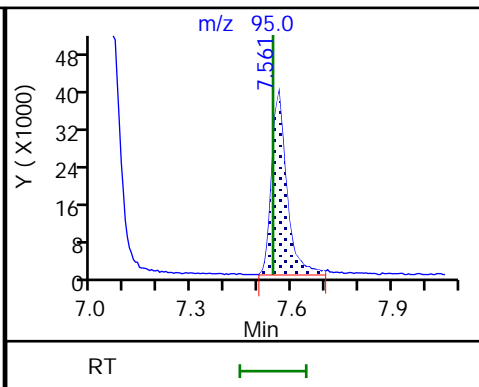
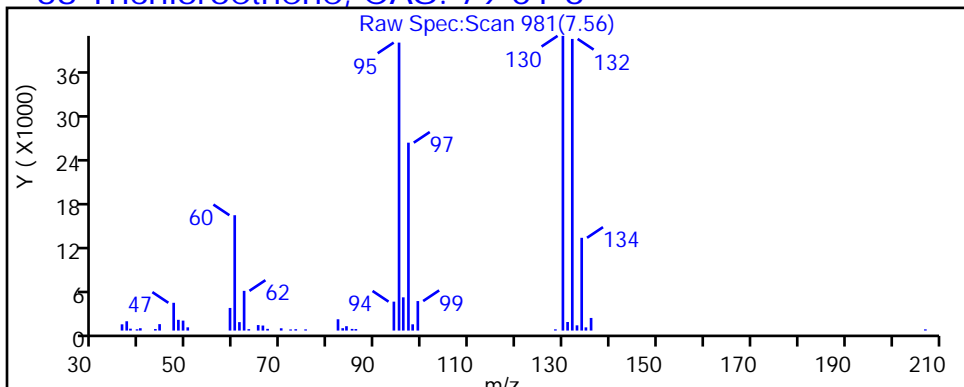
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

68 Trichloroethene, CAS: 79-01-6

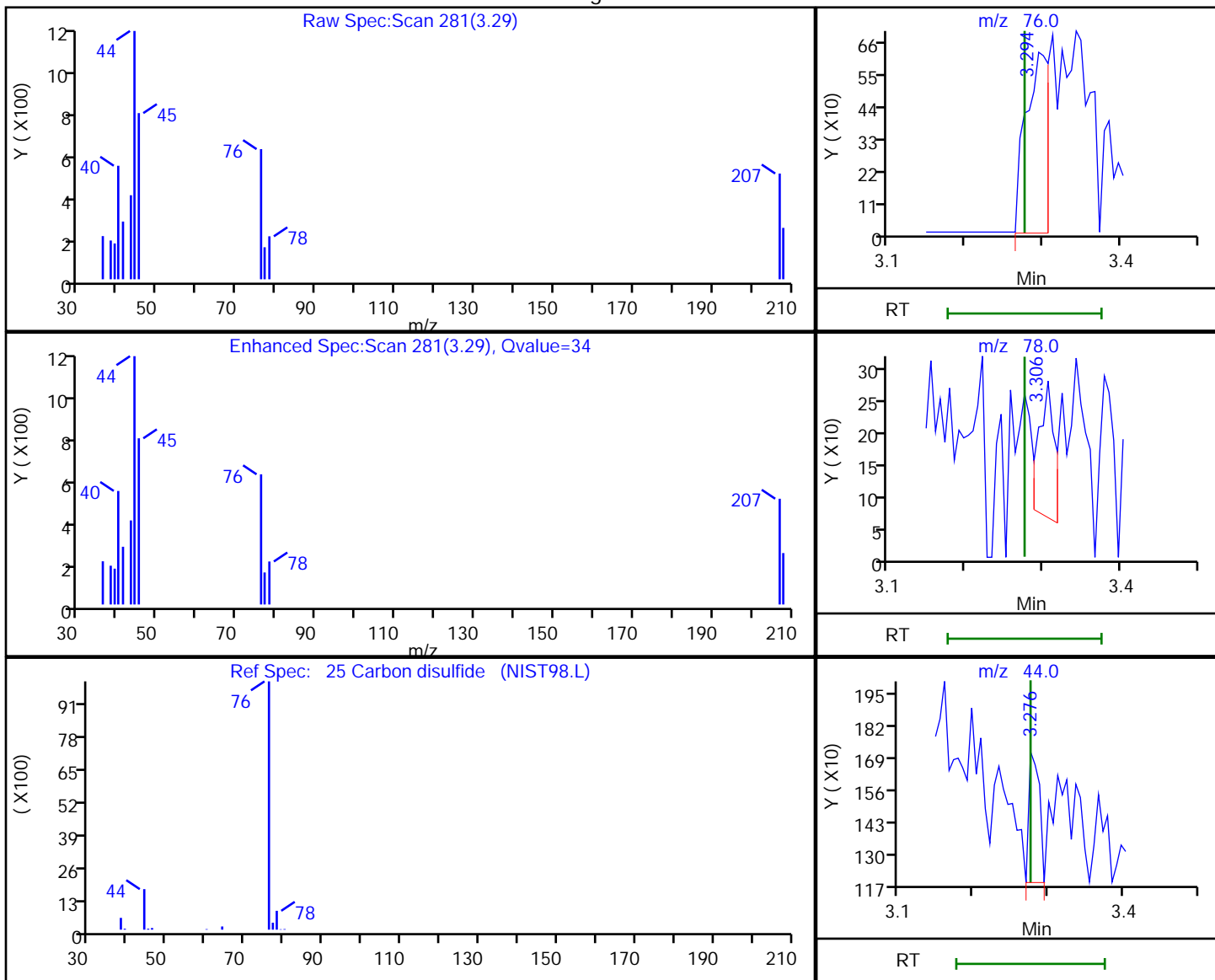


Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfms\Lancaster\ChromData\10193\20230531-85466.b\CY31X25.D
 Injection Date: 01-Jun-2023 05:40:30 Instrument ID: 10193
 Lims ID: 410-127761-A-13 Lab Sample ID: 410-127761-13
 Client ID: HD-QC1-0/1-1
 Operator ID: gaw91131 ALS Bottle#: 25 Worklist Smp#: 26
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
 Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
3.29	76.00	1257	0.007730
3.31	78.00	297	
3.28	44.00	515	

Reviewer: DVW2, 01-Jun-2023 14:18:44 -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 Job No.: 410-127761-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-QC1-0/1-1 DL Lab Sample ID: 410-127761-13 DL

Matrix: Water Lab File ID: CU01X19.D

Analysis Method: 8260D Date Collected: 05/23/2023 12:00

Sample wt/vol: 25 (mL) Date Analyzed: 06/02/2023 03:03

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.: 382118 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	34		5.0	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	88		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		80-120
2037-26-5	Toluene-d8 (Surr)	109		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01X19.D
 Lims ID: 410-127761-B-13 DL
 Client ID: HD-QC1-0/1-1
 Sample Type: Client
 Inject. Date: 02-Jun-2023 03:03:30 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 25.000 mL Dil. Factor: 10.0000
 Sample Info: 410-0085572-020
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 05-Jun-2023 10:23:53 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1679

First Level Reviewer: pongasawatp

Date: 05-Jun-2023 10:25:06

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.892				ND	7
6 Vinyl chloride	62		1.989				ND	
9 Bromomethane	94		2.276				ND	7
10 Chloroethane	64		2.337				ND	
18 1,1-Dichloroethene	96		3.044				ND	7
20 Acetone	43	3.087	3.074	0.013	37	5445	0.7717	
25 Carbon disulfide	76		3.294				ND	7
30 Methylene Chloride	84		3.599				ND	
* 31 t-Butyl alcohol-d10 (IS)	65	3.641	3.647	-0.006	97	148070	50.0	
34 Methyl tert-butyl ether	73		3.940				ND	7
35 trans-1,2-Dichloroethene	96		3.940				ND	
37 1,1-Dichloroethane	63	4.574	4.568	0.006	92	5809	0.0546	
42 2-Butanone (MEK)	43		5.421				ND	7
43 cis-1,2-Dichloroethene	96	5.446	5.428	0.018	77	11942	0.1859	
48 Chlorobromomethane	128		5.769				ND	
50 Chloroform	83		5.927				ND	7
53 1,1,1-Trichloroethane	97	6.141	6.147	-0.006	39	19919	0.2123	
\$ 54 Dibromofluoromethane (Surr)	113	6.153	6.147	0.006	94	445250	9.00	
56 Carbon tetrachloride	117		6.360				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.616	0.000	99	95986	9.84	
60 Benzene	78		6.635				ND	
61 1,2-Dichloroethane	62		6.720				ND	
* 65 Fluorobenzene (IS)	96	7.061	7.061	0.000	99	1899939	10.0	
68 Trichloroethene	95	7.561	7.549	0.012	95	9662	0.1501	
70 1,2-Dichloropropane	63		7.884				ND	
76 Dichlorobromomethane	83		8.244				ND	
80 cis-1,3-Dichloropropene	75		8.823				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.024				ND	
\$ 83 Toluene-d8 (Surr)	98	9.159	9.152	0.007	93	1980240	10.9	
84 Toluene	92		9.244				ND	7
85 trans-1,3-Dichloropropene	75		9.549				ND	
87 1,1,2-Trichloroethane	97		9.762				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166	9.848	9.841	0.007	97	225934	3.43	
106 2-Hexanone	43		10.012				ND	
108 Chlorodibromomethane	129		10.158				ND	
110 Ethylene Dibromide	107		10.274				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.738	10.737	0.001	85	1515390	10.0	
113 Chlorobenzene	112		10.762				ND	
114 1,1,1,2-Tetrachloroethane	131		10.853				ND	
115 Ethylbenzene	91		10.859				ND	
116 m-Xylene & p-Xylene	106		10.981				ND	
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.323				ND	
119 Styrene	104		11.341				ND	
120 Bromoform	173		11.499				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.786	0.006	94	677157	8.75	
126 1,1,2,2-Tetrachloroethane	83		11.902				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.695	12.688	0.006	94	841398	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP25_ISSS_00071

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01X19.D

Injection Date: 02-Jun-2023 03:03:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-127761-B-13 DL

Lab Sample ID: 410-127761-13

Worklist Smp#: 20

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

Purge Vol: 25.000 mL

Dil. Factor: 10.0000

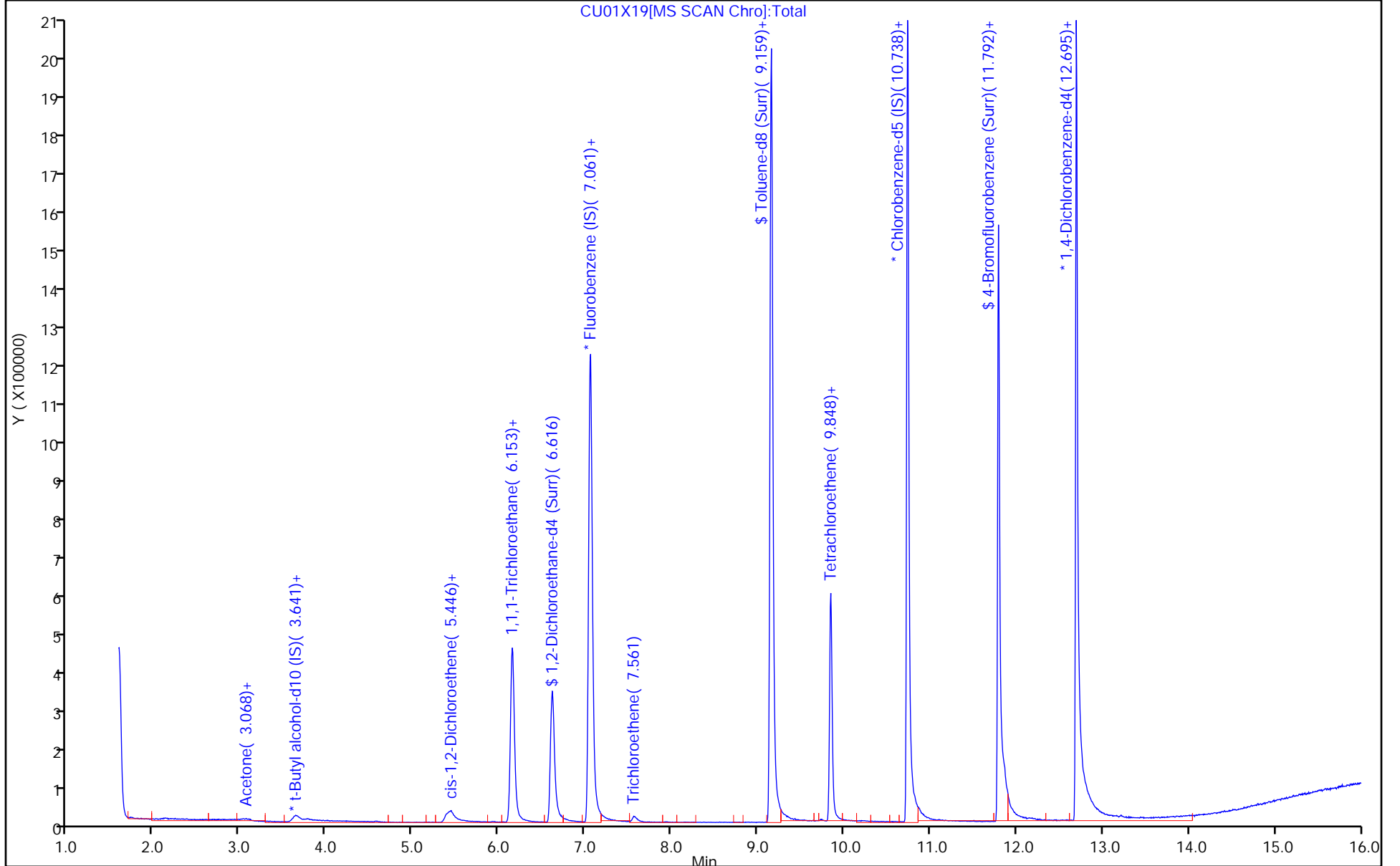
ALS Bottle#: 19

Method: MSV_10193_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\10193\20230601-85572.b\CU01X19.D
 Lims ID: 410-127761-B-13 DL
 Client ID: HD-QC1-0/1-1
 Sample Type: Client
 Inject. Date: 02-Jun-2023 03:03:30 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 25.000 mL Dil. Factor: 10.0000
 Sample Info: 410-0085572-020
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 05-Jun-2023 10:23:53 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1679

First Level Reviewer: pongsawatp

Date: 05-Jun-2023 10:25:06

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.00	89.98
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.84	98.43
\$ 83 Toluene-d8 (Surr)	10.0	10.9	109.41
\$ 124 4-Bromofluorobenzene (Surr)	10.0	8.75	87.54

Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01X19.D

Injection Date: 02-Jun-2023 03:03:30

Instrument ID: 10193

Lims ID: 410-127761-B-13 DL

Lab Sample ID: 410-127761-13

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

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

Dil. Factor: 10.0000

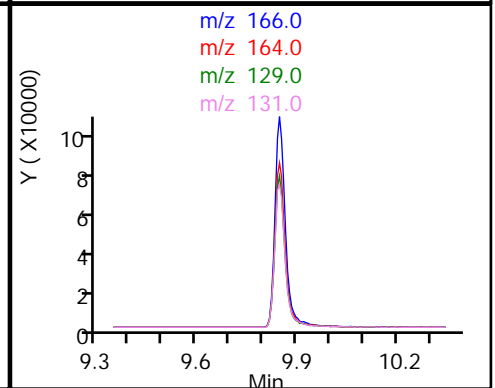
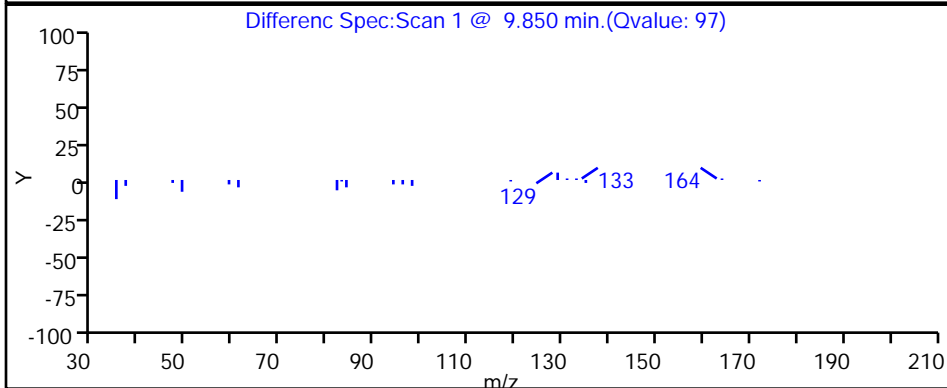
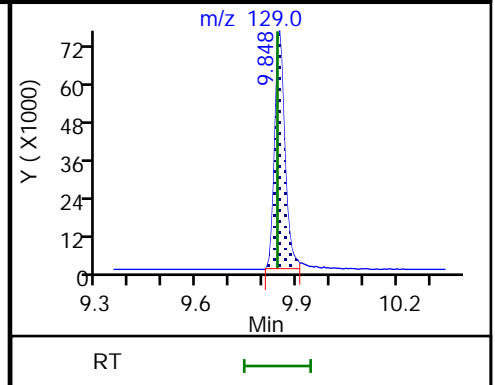
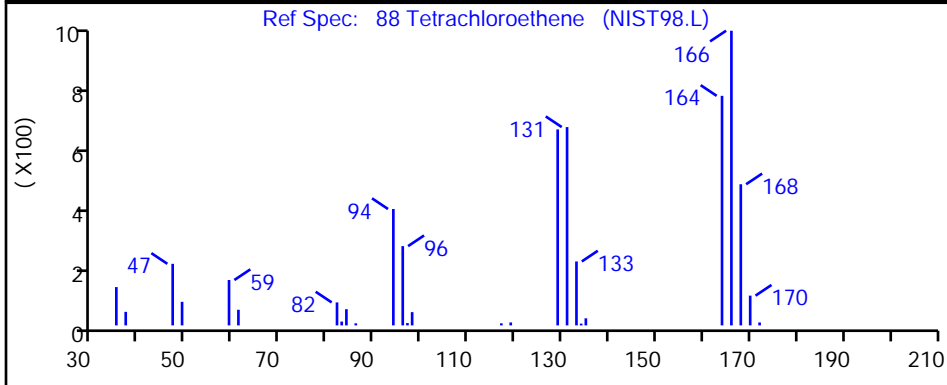
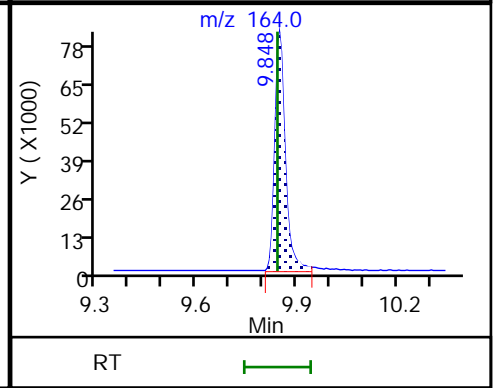
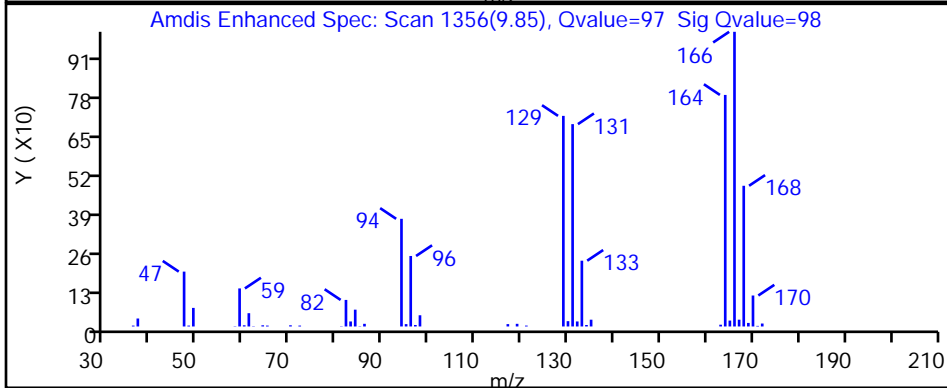
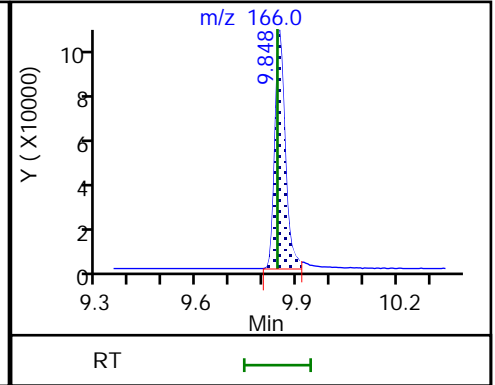
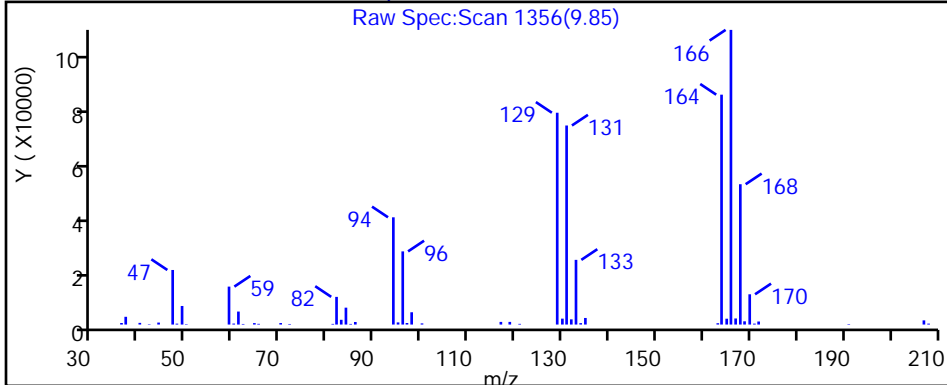
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

88 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-14

Matrix: Water

Lab File ID: CY31X06.D

Analysis Method: 8260D

Date Collected: 05/23/2023 00:00

Sample wt/vol: 25 (mL)

Date Analyzed: 05/31/2023 22:37

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.: 381658

Units: ug/L

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	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	3.2	J	5.0	1.0
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	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1
 Environment Testing, LLC

SDG No.:

Client Sample ID: HD-QC1-0/1-2 Lab Sample ID: 410-127761-14

Matrix: Water Lab File ID: CY31X06.D

Analysis Method: 8260D Date Collected: 05/23/2023 00:00

Sample wt/vol: 25 (mL) Date Analyzed: 05/31/2023 22:37

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.: 381658 Units: ug/L

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	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)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		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\10193\20230531-85466.b\CY31X06.D
 Lims ID: 410-127761-A-14
 Client ID: HD-QC1-0/1-2
 Sample Type: Client
 Inject. Date: 31-May-2023 22:37:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-007
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 14:54:24 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp

Date: 01-Jun-2023 14:54:57

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	1.873	1.879	-0.006	97	4557	0.0542	
6 Vinyl chloride	62		1.983				ND	
9 Bromomethane	94		2.264				ND	
10 Chloroethane	64		2.325				ND	7
18 1,1-Dichloroethene	96		3.032				ND	7
20 Acetone	43	3.093	3.062	0.030	99	29945	3.18	
25 Carbon disulfide	76		3.276				ND	7
30 Methylene Chloride	84		3.580				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.653	3.641	0.012	97	197623	50.0	
34 Methyl tert-butyl ether	73		3.928				ND	
35 trans-1,2-Dichloroethene	96		3.934				ND	
37 1,1-Dichloroethane	63		4.556				ND	
42 2-Butanone (MEK)	43		5.409				ND	
43 cis-1,2-Dichloroethene	96		5.421				ND	
48 Chlorobromomethane	128		5.757				ND	
50 Chloroform	83		5.921				ND	
53 1,1,1-Trichloroethane	97		6.135				ND	
\$ 54 Dibromofluoromethane (Surr)	113	6.153	6.141	0.012	94	450722	9.05	
56 Carbon tetrachloride	117		6.348				ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.622	6.604	0.018	100	97246	9.90	
60 Benzene	78		6.629				ND	7
61 1,2-Dichloroethane	62		6.714				ND	
* 65 Fluorobenzene (IS)	96	7.061	7.049	0.012	99	1912944	10.0	
68 Trichloroethene	95		7.543				ND	
70 1,2-Dichloropropane	63		7.878				ND	
76 Dichlorobromomethane	83		8.244				ND	
80 cis-1,3-Dichloropropene	75		8.817				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.024				ND	7
\$ 83 Toluene-d8 (Surr)	98	9.158	9.152	0.006	93	2013438	10.5	
84 Toluene	92	9.250	9.238	0.012	98	7782	0.0526	
85 trans-1,3-Dichloropropene	75		9.543				ND	
87 1,1,2-Trichloroethane	97		9.762				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166		9.841				ND	
106 2-Hexanone	43		10.006				ND	7
108 Chlorodibromomethane	129		10.158				ND	
110 Ethylene Dibromide	107		10.268				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.737	10.738	-0.001	86	1607742	10.0	
113 Chlorobenzene	112		10.762				ND	
114 1,1,1,2-Tetrachloroethane	131		10.853				ND	
115 Ethylbenzene	91		10.859				ND	7
116 m-Xylene & p-Xylene	106		10.981				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.323				ND	7
119 Styrene	104		11.341				ND	7
120 Bromoform	173		11.500				ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.786	0.006	94	761434	9.28	
126 1,1,2,2-Tetrachloroethane	83		11.902				ND	
* 139 1,4-Dichlorobenzene-d4	152	12.694	12.688	0.006	94	921726	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP25_ISSS_00070

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X06.D

Injection Date: 31-May-2023 22:37:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-127761-A-14

Lab Sample ID: 410-127761-14

Worklist Smp#: 7

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

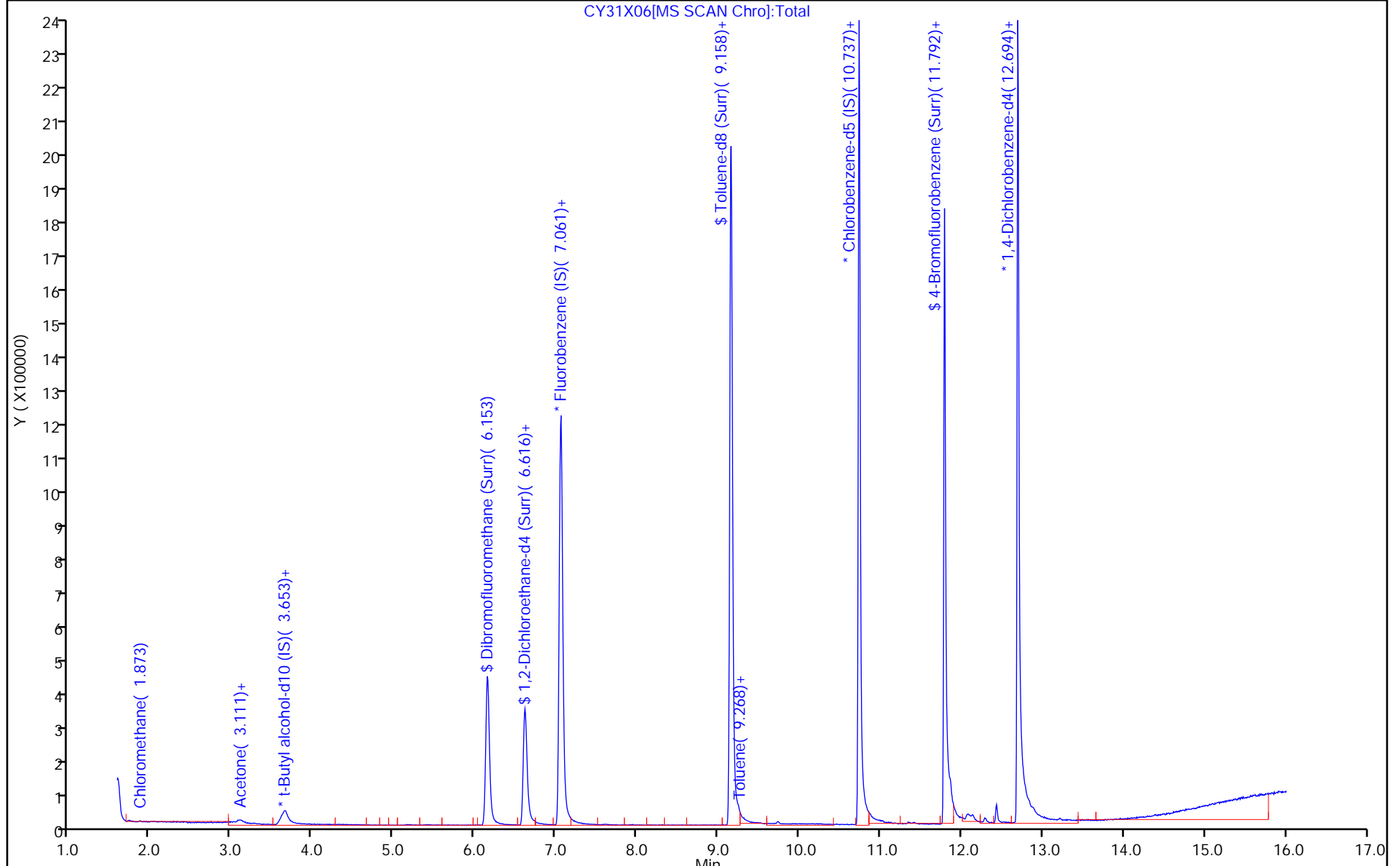
ALS Bottle#: 6

Method: MSV_10193_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\10193\20230531-85466.b\CY31X06.D
 Lims ID: 410-127761-A-14
 Client ID: HD-QC1-0/1-2
 Sample Type: Client
 Inject. Date: 31-May-2023 22:37:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-007
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 14:54:24 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp

Date: 01-Jun-2023 14:54:57

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.05	90.47
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.90	99.04
\$ 83 Toluene-d8 (Surr)	10.0	10.5	104.85
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.28	92.78

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X06.D

Injection Date: 31-May-2023 22:37:30

Instrument ID: 10193

Lims ID: 410-127761-A-14

Lab Sample ID: 410-127761-14

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

Operator ID: gaw91131

ALS Bottle#: 6

Worklist Smp#: 7

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

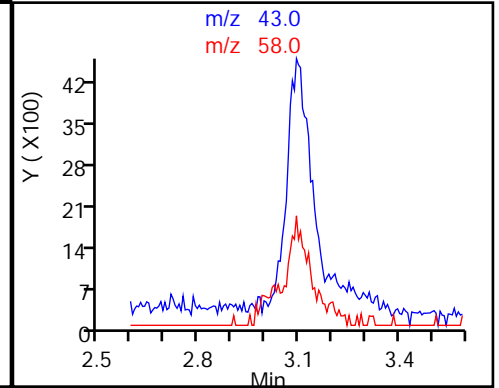
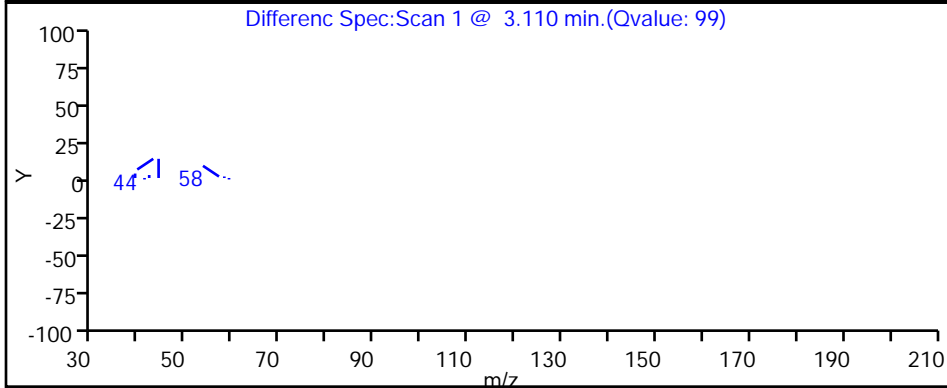
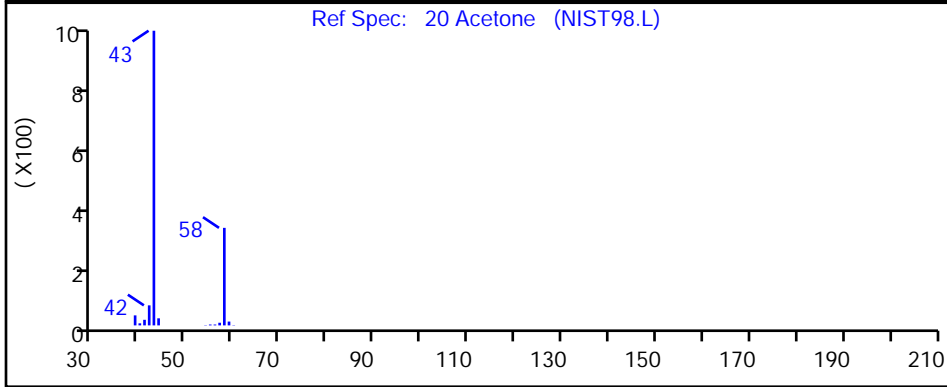
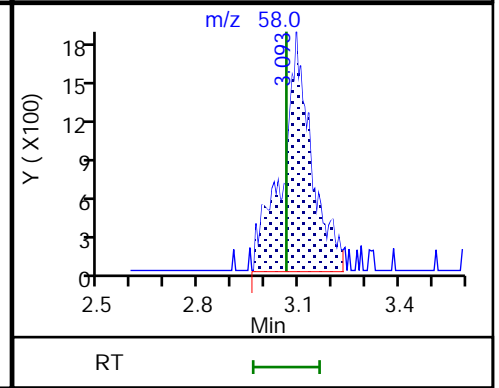
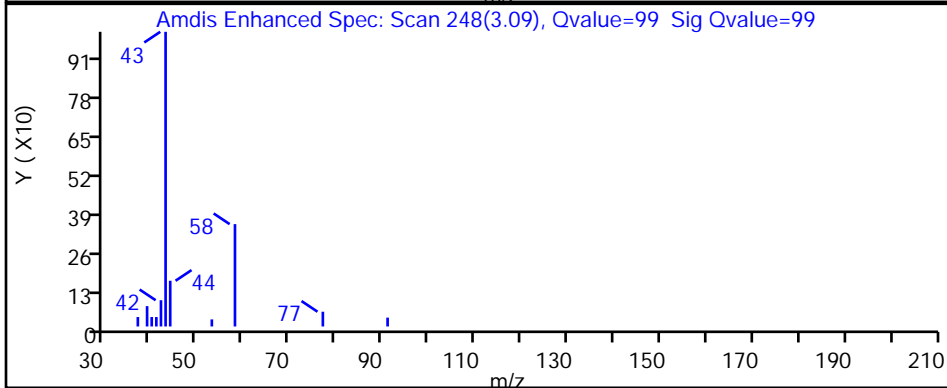
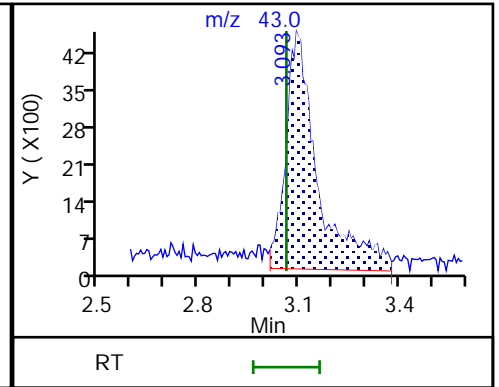
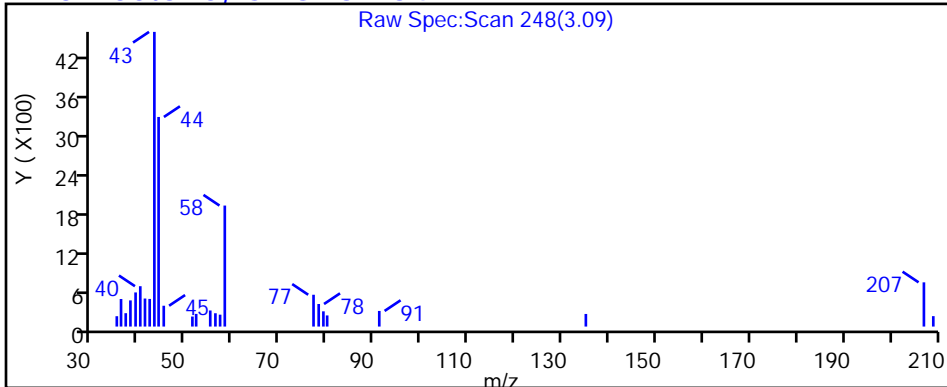
Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

MS Quad

20 Acetone, CAS: 67-64-1



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1 Analy Batch No.: 370594
 Environment Testing, LLC

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 15:17 Calibration End Date: 05/01/2023 17:31 Calibration ID: 49723

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-370594/3	CY01X02.D
Level 2	IC 410-370594/4	CY01X03.D
Level 3	IC 410-370594/5	CY01X04.D
Level 4	IC 410-370594/6	CY01X05.D
Level 5	IC 410-370594/7	CY01X06.D
Level 6	IC 410-370594/8	CY01X07.D
Level 7	IC 410-370594/9	CY01X08.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	0.4017 0.4165	0.4122 0.4060	0.4375	0.3647	0.4061	Ave		0.406 4			5.4		20.0				
Methoxymethane	0.4613 0.3887	0.4272 0.3882	0.4751	0.3711	0.3735	Ave		0.412 2			10.3		20.0				
Acetonitrile	++++ 0.0072	++++ 0.0092	0.0090	0.0070	0.0074	Ave		0.008 0			13.2		20.0				
Vinyl acetate	0.3917 0.3703	0.3531 0.3733	0.3838	0.3504	0.3577	Ave		0.368 6			4.3		20.0				
Ethyl acetate	0.1083 0.1484	0.1274 0.1632	0.1435	0.1417	0.1373	Ave		0.138 5			12.4		20.0				
2-Chloroethyl vinyl ether	0.1005 0.1462	0.1220 0.1428	0.1309	0.1265	0.1403	Ave		0.129 9			12.1		20.0				
Cyclohexanone	++++ 0.2226	0.1366 0.2270	0.1492	0.1818	0.1815	Ave		0.183 1			20.2	*	20.0				
cis-1,4-Dichloro-2-butene	0.4391 0.0093	0.1833 0.0042	0.0954	0.0463	0.0186	Ave		0.113 7			137.9	*	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 Enviro Job No.: 410-127761-1 Analy Batch No.: 370594

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 15:17 Calibration End Date: 05/01/2023 17:31 Calibration ID: 49723

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-370594/3	CY01X02.D
Level 2	IC 410-370594/4	CY01X03.D
Level 3	IC 410-370594/5	CY01X04.D
Level 4	IC 410-370594/6	CY01X05.D
Level 5	IC 410-370594/7	CY01X06.D
Level 6	IC 410-370594/8	CY01X07.D
Level 7	IC 410-370594/9	CY01X08.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Chlorodifluoromethane	FB	Ave	16742 816179	41986 2040371	88587	146073	400804	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methoxymethane	FB	Ave	19229 761661	43510 1950872	96183	148642	368579	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetonitrile	FB	Ave	+++++ 70643	+++++ 230746	9115	13999	36455	+++++ 50.0	+++++ 125	5.00	10.0	25.0
Vinyl acetate	FB	Ave	16326 725711	35966 1876371	77709	140346	353010	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl acetate	FB	Ave	4514 290778	12973 820020	29062	56766	135527	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloroethyl vinyl ether	FB	Ave	4190 286556	12430 717596	26499	50675	138419	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexanone	TBAd 10	Ave	+++++ 236576	10542 723532	16036	43680	86061	+++++ 500	25.0 1250	50.0	100.0	250
cis-1,4-Dichloro-2-butene	CBZd 5	Ave	34785 34384	35419 39512	36485	35257	34698	0.400 20.0	1.00 50.0	2.00	4.00	10.0

Curve Type Legend

Ave = Average ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Enviro Job No.: 410-127761-1 Analy Batch No.: 370594

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 15:17 Calibration End Date: 05/01/2023 17:31 Calibration ID: 49723

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-370594/3	CY01X02.D
Level 2	IC 410-370594/4	CY01X03.D
Level 3	IC 410-370594/5	CY01X04.D
Level 4	IC 410-370594/6	CY01X05.D
Level 5	IC 410-370594/7	CY01X06.D
Level 6	IC 410-370594/8	CY01X07.D
Level 7	IC 410-370594/9	CY01X08.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
Chlorodifluoromethane	-1.2 -0.1	1.4	7.7	-10.3	-0.1	2.5	50 30	30	30	30	30	30
Methoxymethane	11.9 -5.8	3.7	15.3	-9.9	-9.4	-5.7	50 30	30	30	30	30	30
Acetonitrile	+++++ 15.4	+++++	13.2	-12.1	-7.1	-9.4	30		50	30	30	30
Vinyl acetate	6.3 1.3	-4.2	4.1	-4.9	-3.0	0.5	50 30	30	30	30	30	30
Ethyl acetate	-21.8 17.8	-8.1	3.6	2.3	-0.9	7.1	50 30	30	30	30	30	30
2-Chloroethyl vinyl ether	-22.6 9.9	-6.0	0.8	-2.6	8.0	12.6	50 30	30	30	30	30	30
Cyclohexanone	+++++ 24.0	-25.4	-18.5	-0.7	-0.9	21.6	30	50	30	30	30	30
cis-1,4-Dichloro-2-butene	286.1 * -96.3 *	61.2 *	-16.1	-59.3 *	-83.7 *	-91.8 *	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X02.D
 Lims ID: IC STD.2 Sm
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 01-May-2023 15:17:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0082854-003
 Misc. Info.: IC STD.2 SM
 Operator ID: knk41612 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub26
 Method: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-May-2023 07:27:23 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: DVW2

Date: 02-May-2023 07:47:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.684	1.684	0.000	67	4685	0.2000	0.1374	
3 Chlorodifluoromethane	51	1.739	1.727	0.012	95	16742	0.2000	0.1977	
4 Dimethyl ether	45	1.794	1.776	0.018	37	19229	0.2000	0.2239	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.081	2.062	0.019	35	12972	0.2000	0.1690	
27 Acetonitrile	41	3.452	3.440	0.012	66	8007	1.00	4.83	M
* 31 t-Butyl alcohol-d10 (IS)	65	3.660	3.672	-0.012	96	182960	50.0	50.0	
38 Vinyl acetate	43	4.641	4.568	0.073	89	16326	0.2000	0.2125	M
46 Ethyl acetate	43	5.531	5.494	0.037	56	4514	0.2000	0.1563	
63 Isopropyl acetate	43	6.787	6.756	0.031	97	17274	0.2000	0.2158	
* 65 Fluorobenzene (IS)	96	7.068	7.055	0.013	99	2084055	10.0	10.0	
75 n-Propyl acetate	61	8.140	8.104	0.036	97	3127	0.2000	0.1872	
79 2-Chloroethyl vinyl ether	63	8.677	8.646	0.031	89	4190	0.2000	0.1548	
109 n-Butyl acetate	43	10.189	10.158	0.031	95	11060	0.2000	0.1757	M
* 111 Chlorobenzene-d5 (IS)	117	10.744	10.743	0.001	85	1980144	10.0	10.0	
123 Cyclohexanone	55	11.756	11.737	0.019	58	558	10.0	0.8328	
122 cis-1,4-Dichloro-2-butene	88	11.798	11.792	0.006	49	34785	0.4000	1.54	a
* 139 1,4-Dichlorobenzene-d4	152	12.701	12.700	0.001	94	1208763	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_V5ACE_00023	Amount Added: 0.20	Units: uL
MSV_V_SMRV4_00058	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00005	Amount Added: 1.60	Units: uL
MSV_HP25_ISO_00008	Amount Added: 1.00	Units: uL
MSV_DME_00047	Amount Added: 0.20	Units: uL

Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X02.D

Injection Date: 01-May-2023 15:17:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: IC STD.2 Sm

Worklist Smp#: 3

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

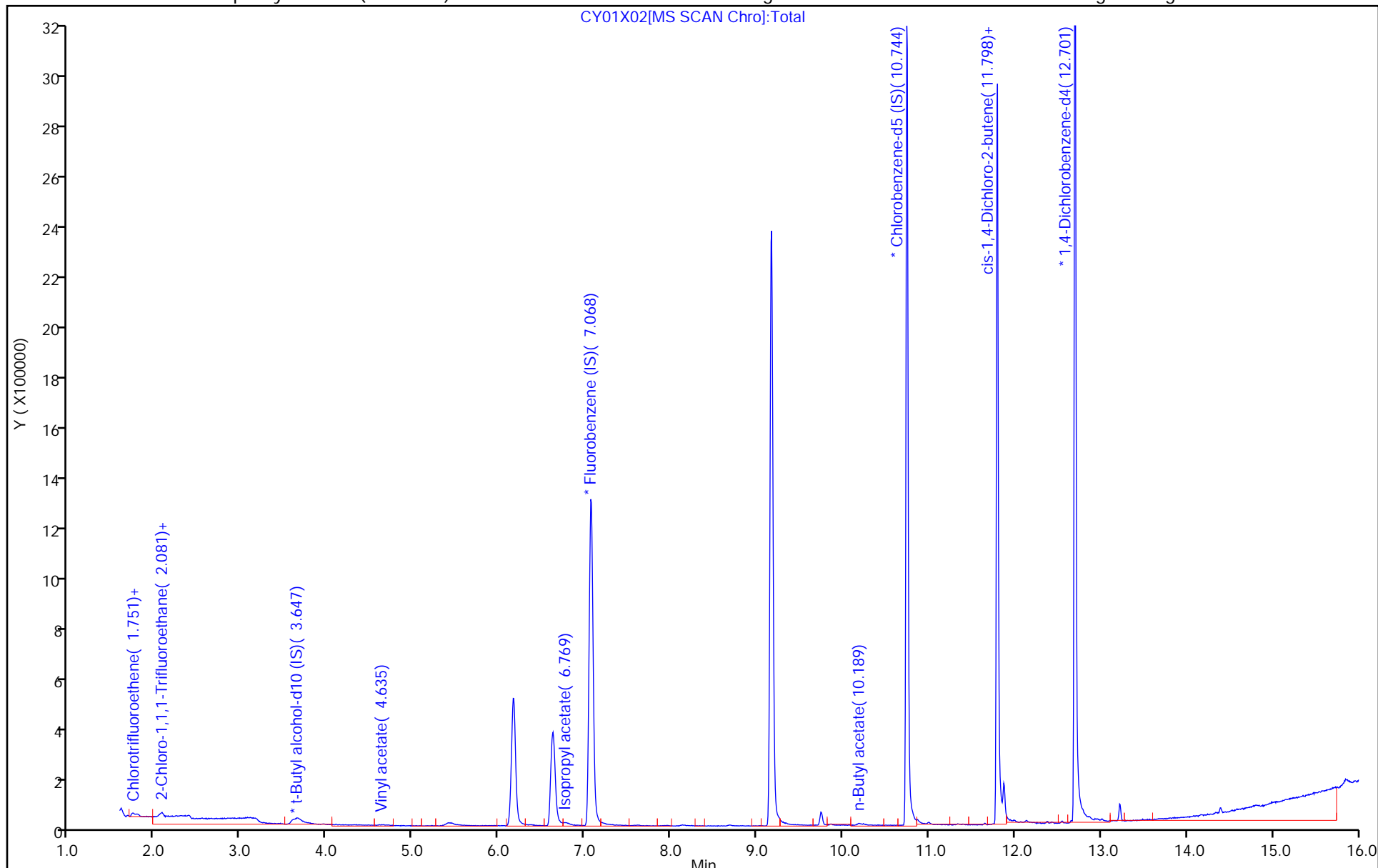
ALS Bottle#: 2

Method: MSV_10193_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

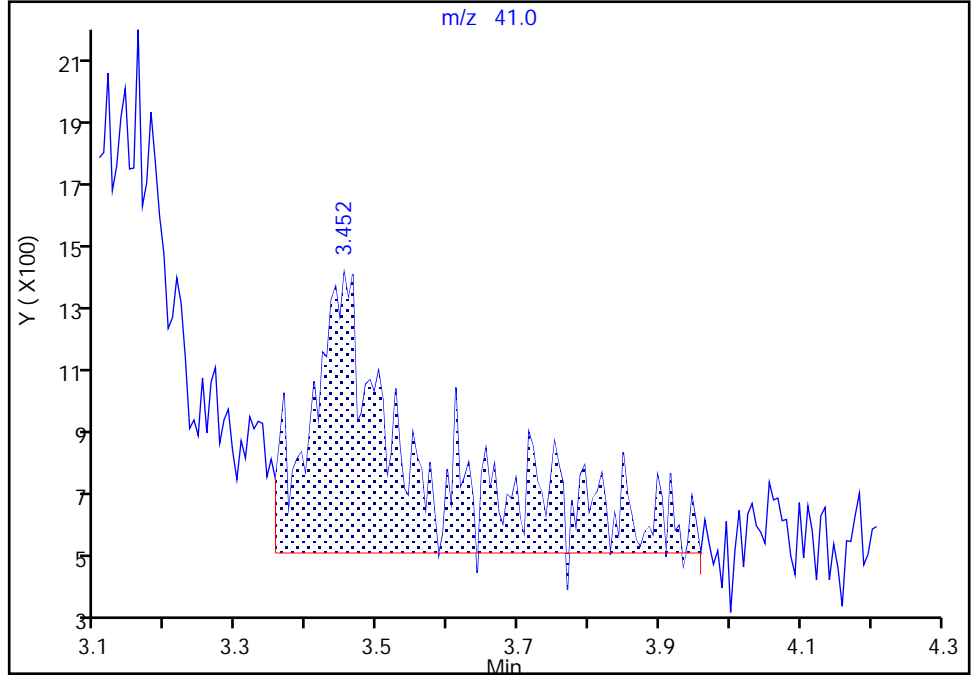
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X02.D
Injection Date: 01-May-2023 15:17:30 Instrument ID: 10193
Lims ID: IC STD.2 Sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

27 Acetonitrile, CAS: 75-05-8

Signal: 1

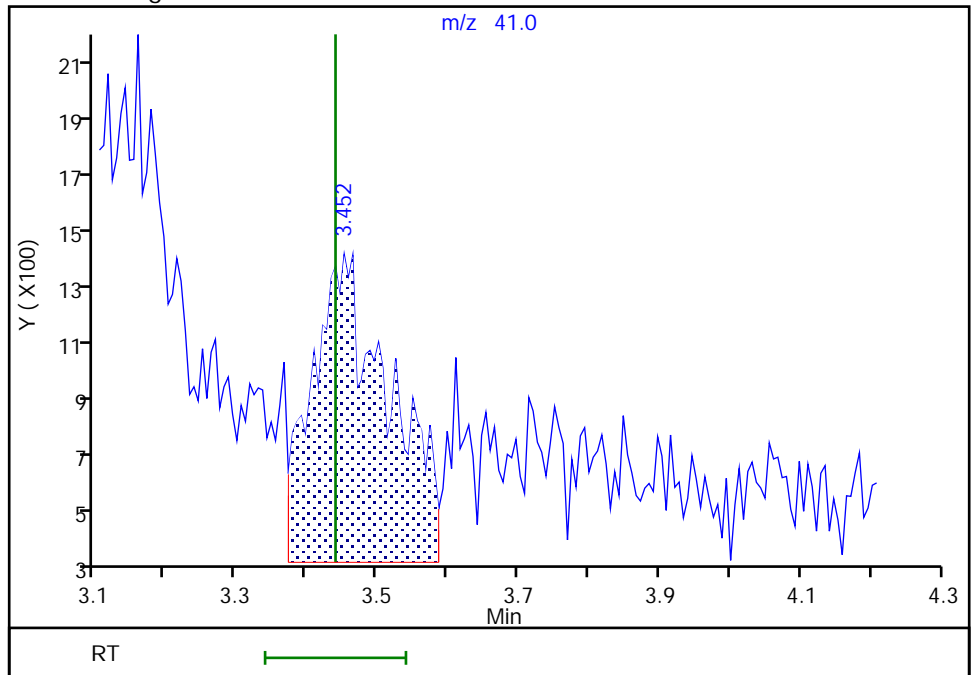
RT: 3.45
Area: 9555
Amount: 1.909865
Amount Units: ug/l

Processing Integration Results



RT: 3.45
Area: 8007
Amount: 4.829635
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 08:11:06 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Euofins Lancaster Laboratories Environment Testing, LLC

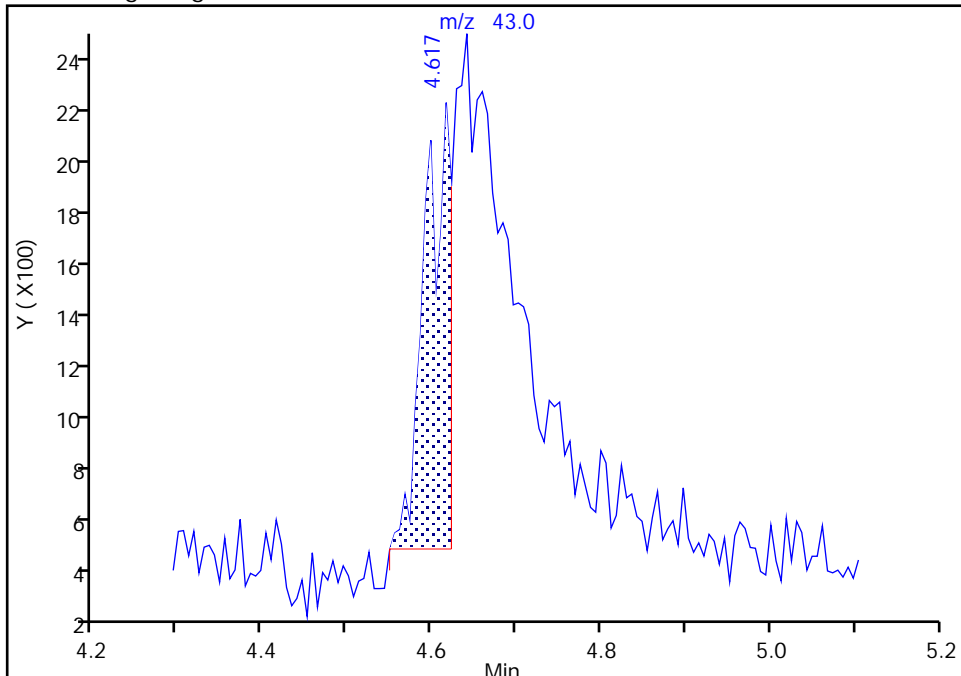
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X02.D
 Injection Date: 01-May-2023 15:17:30 Instrument ID: 10193
 Lims ID: IC STD.2 Sm
 Client ID:
 Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
 Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

38 Vinyl acetate, CAS: 108-05-4

Signal: 1

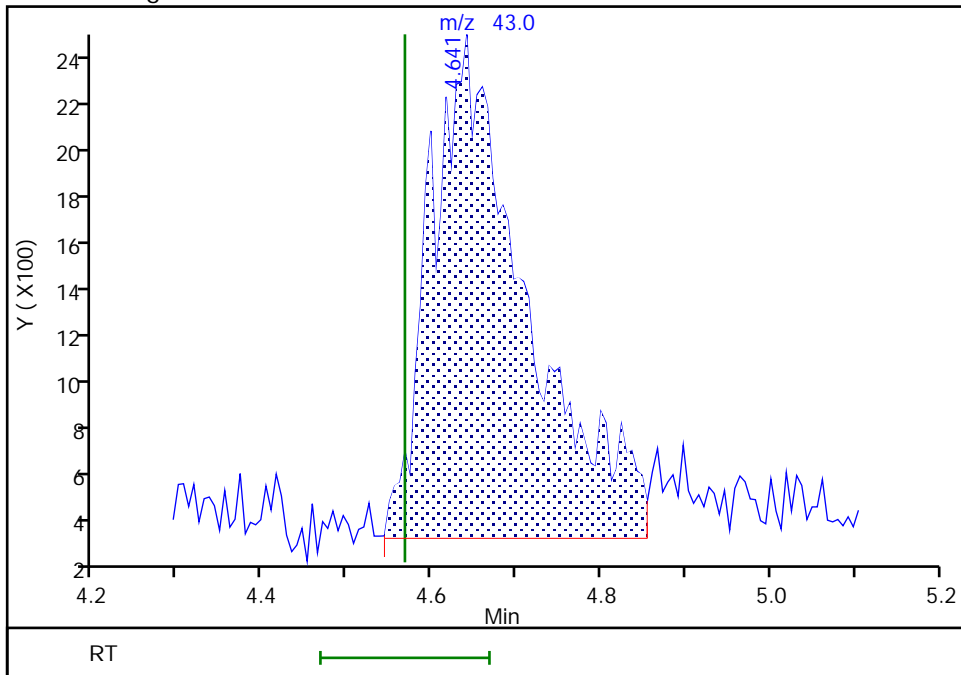
RT: 4.62
 Area: 3586
 Amount: -0.055225
 Amount Units: ug/l

Processing Integration Results



RT: 4.64
 Area: 16326
 Amount: 0.212505
 Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 07:46:50 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

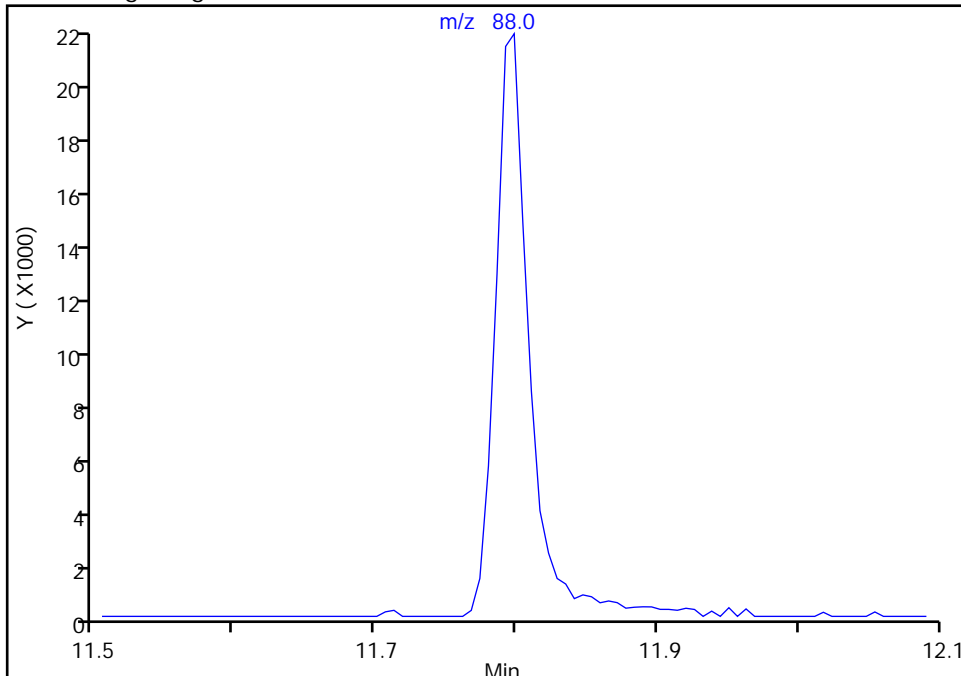
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X02.D
Injection Date: 01-May-2023 15:17:30 Instrument ID: 10193
Lims ID: IC STD.2 Sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

122 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

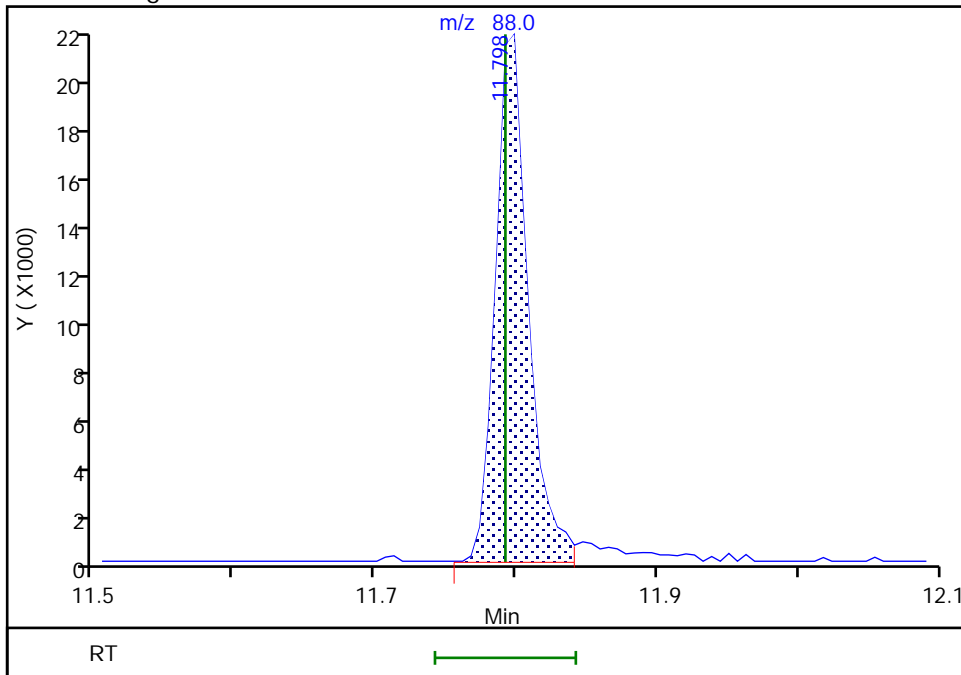
Not Detected
Expected RT: 11.79

Processing Integration Results



Manual Integration Results

RT: 11.80
Area: 34785
Amount: 1.544456
Amount Units: ug/l



Reviewer: DVW2, 02-May-2023 08:13:43 -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\10193\20230501-82854.b\CY01X03.D
 Lims ID: IC STD.5 Sm
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 01-May-2023 15:40:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0082854-004
 Misc. Info.: IC STD.5 SM
 Operator ID: knk41612 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub26
 Method: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-May-2023 07:27:25 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: DVW2 Date: 02-May-2023 07:48:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.691	1.684	0.007	91	16088	0.5000	0.4828	
3 Chlorodifluoromethane	51	1.733	1.727	0.006	97	41986	0.5000	0.5072	
4 Dimethyl ether	45	1.782	1.776	0.006	100	43510	0.5000	0.5183	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.069	2.062	0.007	34	37812	0.5000	0.5040	
27 Acetonitrile	41	3.532	3.440	0.092	66	7647	2.50	4.72	M
* 31 t-Butyl alcohol-d10 (IS)	65	3.660	3.672	-0.012	97	154364	50.0	50.0	
38 Vinyl acetate	43	4.629	4.568	0.061	97	35966	0.5000	0.4790	
46 Ethyl acetate	43	5.519	5.494	0.025	97	12973	0.5000	0.4597	
63 Isopropyl acetate	43	6.775	6.756	0.019	98	36027	0.5000	0.4604	
* 65 Fluorobenzene (IS)	96	7.068	7.055	0.013	99	2036946	10.0	10.0	
75 n-Propyl acetate	61	8.122	8.104	0.018	98	7037	0.5000	0.4311	
79 2-Chloroethyl vinyl ether	63	8.665	8.646	0.019	92	12430	0.5000	0.4698	
109 n-Butyl acetate	43	10.177	10.158	0.019	97	24173	0.5000	0.3936	
* 111 Chlorobenzene-d5 (IS)	117	10.744	10.743	0.001	85	1932170	10.0	10.0	
123 Cyclohexanone	55	11.792	11.737	0.055	36	10542	25.0	18.6	Ma
122 cis-1,4-Dichloro-2-butene	88	11.792	11.792	0.000	40	35419	1.00	1.61	a
* 139 1,4-Dichlorobenzene-d4	152	12.701	12.700	0.001	94	1161481	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_V5ACE_00023	Amount Added: 0.50	Units: uL
MSV_CCV_CYC_00005	Amount Added: 4.00	Units: uL
MSV_V_SMRV4_00058	Amount Added: 2.50	Units: uL
MSV_HP25_ISO_00008	Amount Added: 1.00	Units: uL
MSV_DME_00047	Amount Added: 0.50	Units: uL

Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X03.D

Injection Date: 01-May-2023 15:40:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: IC STD.5 Sm

Worklist Smp#: 4

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

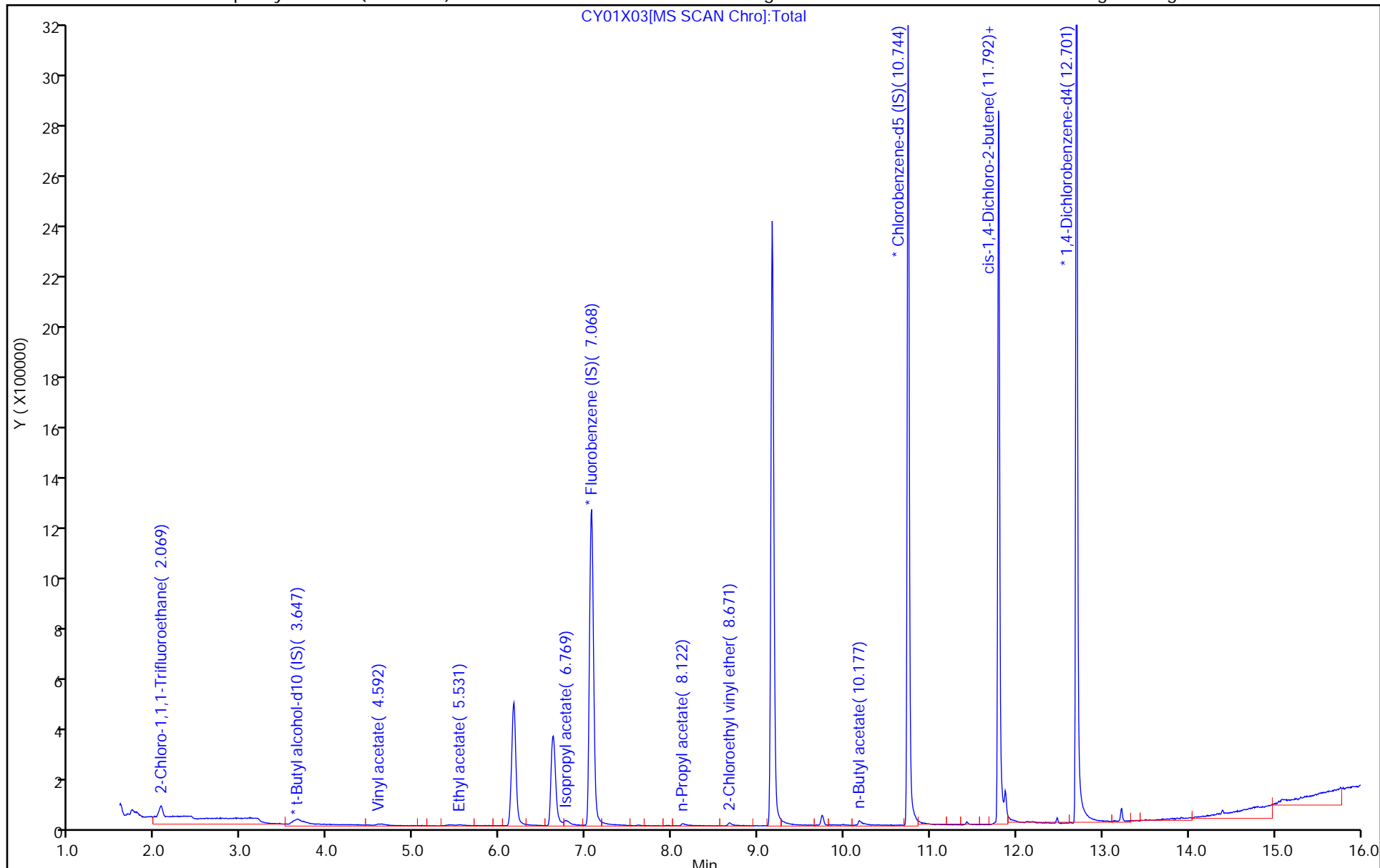
ALS Bottle#: 3

Method: MSV_10193_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

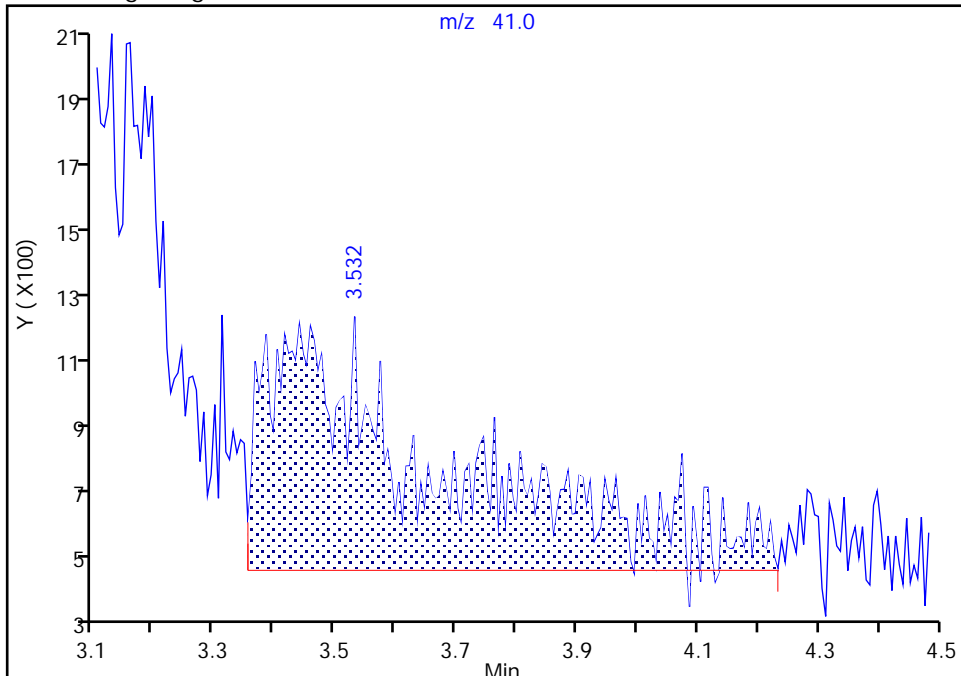
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X03.D
Injection Date: 01-May-2023 15:40:30 Instrument ID: 10193
Lims ID: IC STD.5 Sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

27 Acetonitrile, CAS: 75-05-8

Signal: 1

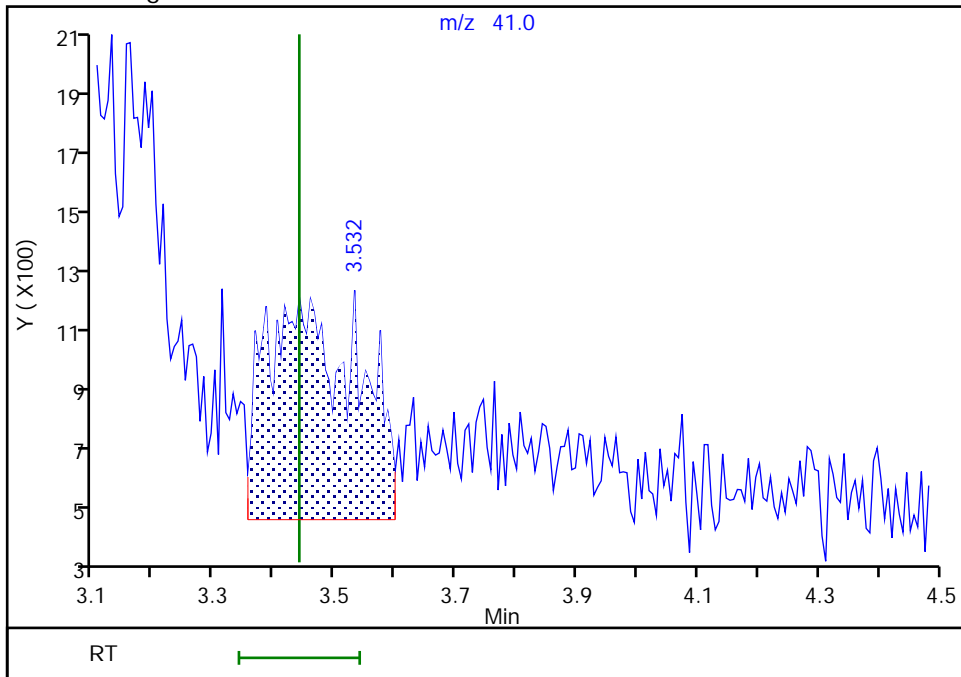
RT: 3.53
Area: 14523
Amount: 3.712353
Amount Units: ug/l

Processing Integration Results



RT: 3.53
Area: 7647
Amount: 4.719166
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 08:12:25 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

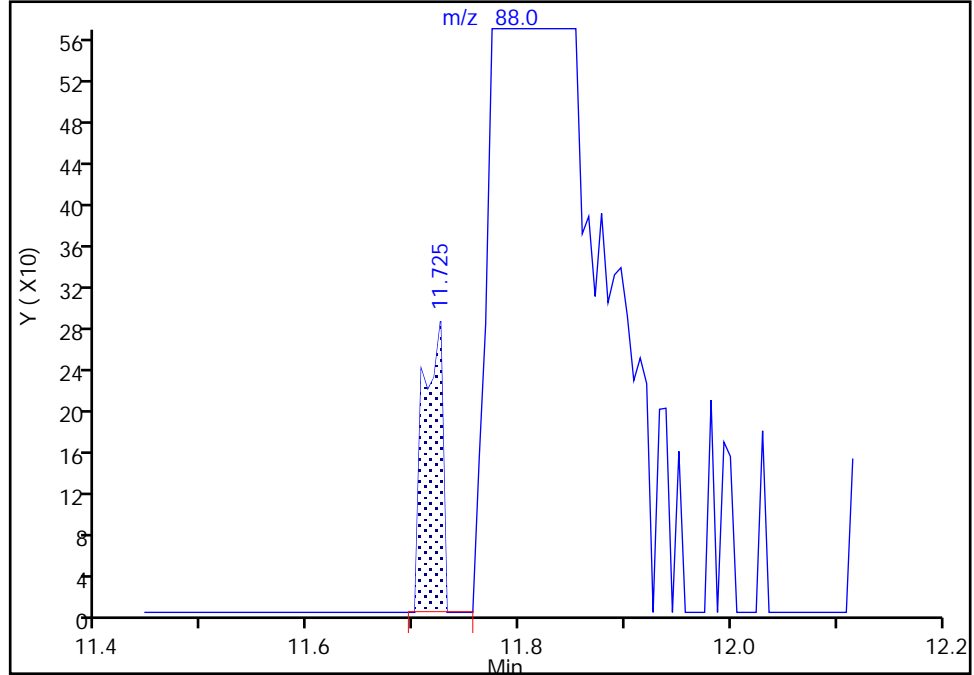
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 Injection Date: 01-May-2023 15:40:30 Instrument ID: 10193
 Lims ID: IC STD.5 Sm
 Client ID:
 Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
 Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

122 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

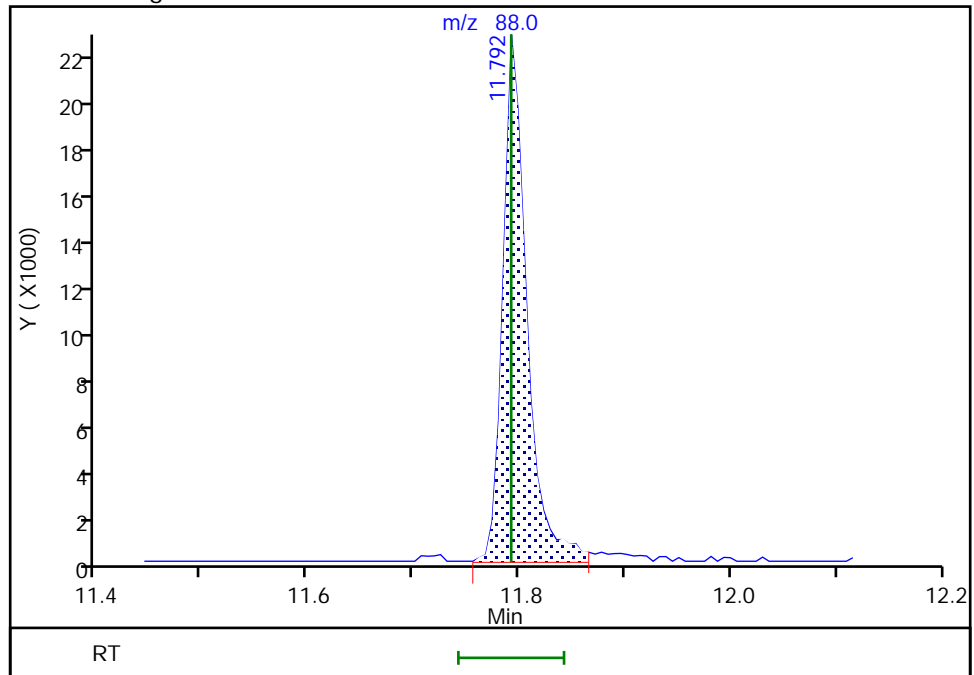
RT: 11.73
 Area: 354
 Amount: 0.026495
 Amount Units: ug/l

Processing Integration Results



RT: 11.79
 Area: 35419
 Amount: 1.611652
 Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 07:48:04 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

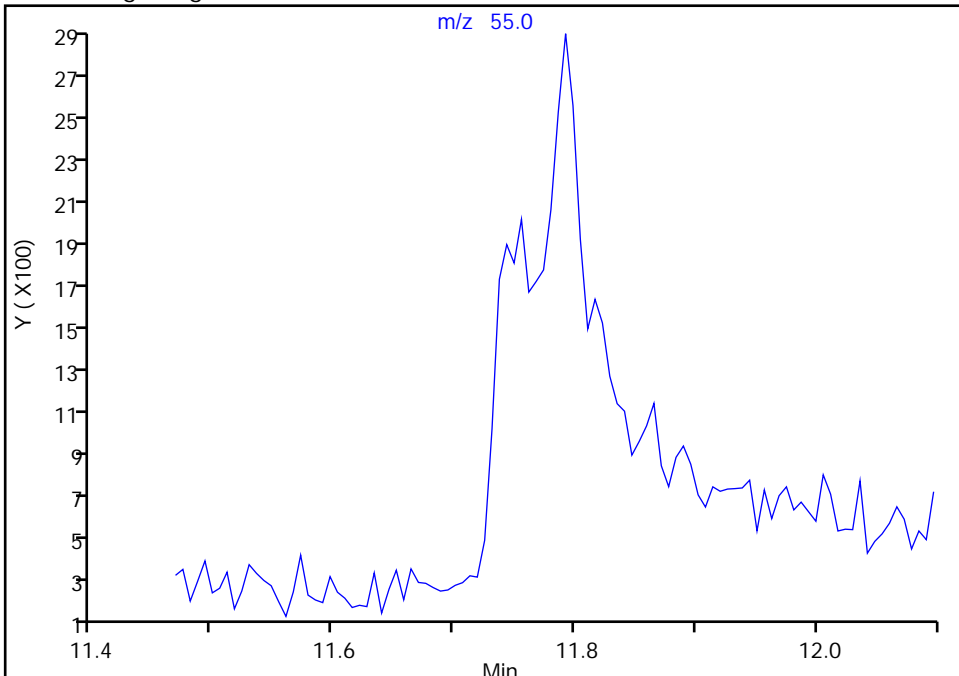
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X03.D
Injection Date: 01-May-2023 15:40:30 Instrument ID: 10193
Lims ID: IC STD.5 Sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

123 Cyclohexanone, CAS: 108-94-1

Signal: 1

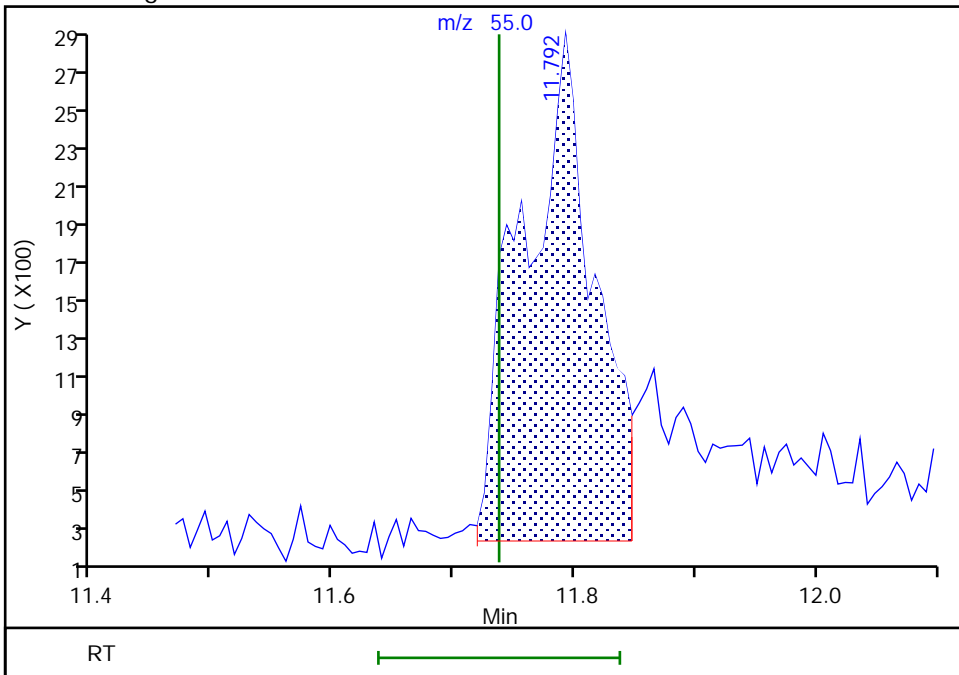
Not Detected
Expected RT: 11.74

Processing Integration Results



Manual Integration Results

RT: 11.79
Area: 10542
Amount: 18.648876
Amount Units: ug/l



Reviewer: DVW2, 02-May-2023 07:48:36 -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\10193\20230501-82854.b\CY01X04.D
 Lims ID: IC STD1 Sm
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 01-May-2023 16:02:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0082854-005
 Misc. Info.: IC STD1 SM
 Operator ID: knk41612 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub26
 Method: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-May-2023 07:27:26 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: DVW2 Date: 02-May-2023 07:49:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.697	1.684	0.013	91	36377	1.00	1.10	
3 Chlorodifluoromethane	51	1.733	1.727	0.006	97	88587	1.00	1.08	
4 Dimethyl ether	45	1.788	1.776	0.012	99	96183	1.00	1.15	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.074	2.062	0.012	35	81958	1.00	1.10	
27 Acetonitrile	41	3.532	3.440	0.092	79	9115	5.00	5.66	Ma
* 31 t-Butyl alcohol-d10 (IS)	65	3.684	3.672	0.012	96	107514	50.0	50.0	
38 Vinyl acetate	43	4.592	4.568	0.024	97	77709	1.00	1.04	a
46 Ethyl acetate	43	5.531	5.494	0.037	99	29062	1.00	1.04	
63 Isopropyl acetate	43	6.775	6.756	0.019	98	83168	1.00	1.07	
* 65 Fluorobenzene (IS)	96	7.061	7.055	0.006	99	2024630	10.0	10.0	
75 n-Propyl acetate	61	8.122	8.104	0.018	98	17504	1.00	1.08	
79 2-Chloroethyl vinyl ether	63	8.665	8.646	0.019	93	26499	1.00	1.01	
109 n-Butyl acetate	43	10.170	10.158	0.012	98	63493	1.00	1.04	
* 111 Chlorobenzene-d5 (IS)	117	10.744	10.743	0.001	85	1912067	10.0	10.0	
123 Cyclohexanone	55	11.792	11.737	0.055	89	16036	50.0	40.7	M
122 cis-1,4-Dichloro-2-butene	88	11.792	11.792	0.000	40	36485	2.00	1.68	a
* 139 1,4-Dichlorobenzene-d4	152	12.700	12.700	0.000	94	1147590	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_V5ACE_00023	Amount Added: 0.50	Units: uL
MSV_CCV_CYC_00005	Amount Added: 4.00	Units: uL
MSV_V_SMRV4_00058	Amount Added: 2.50	Units: uL
MSV_HP25_ISO_00008	Amount Added: 1.00	Units: uL
MSV_DME_00047	Amount Added: 0.50	Units: uL

Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X04.D

Injection Date: 01-May-2023 16:02:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: IC STD1 Sm

Worklist Smp#: 5

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

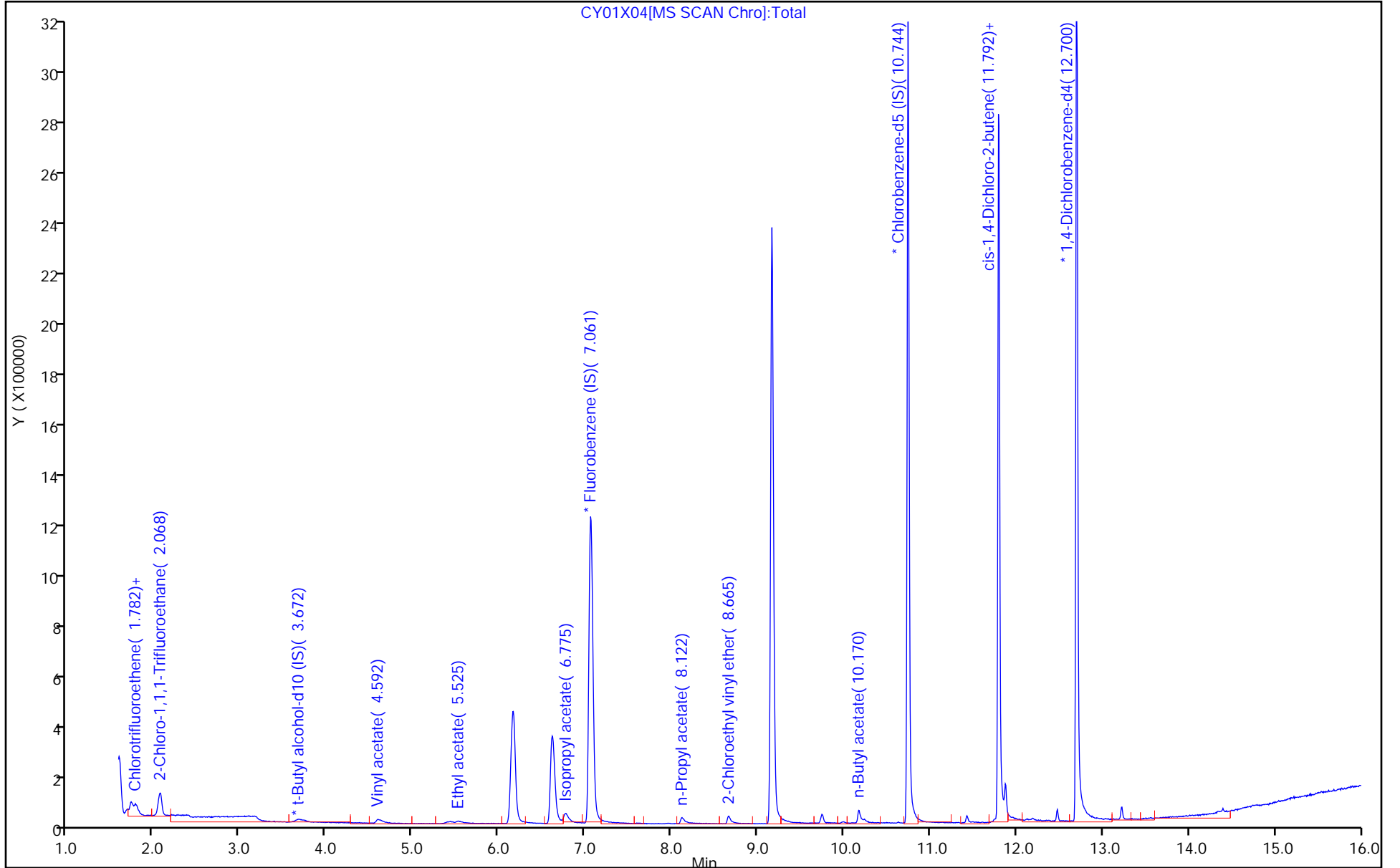
ALS Bottle#: 4

Method: MSV_10193_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

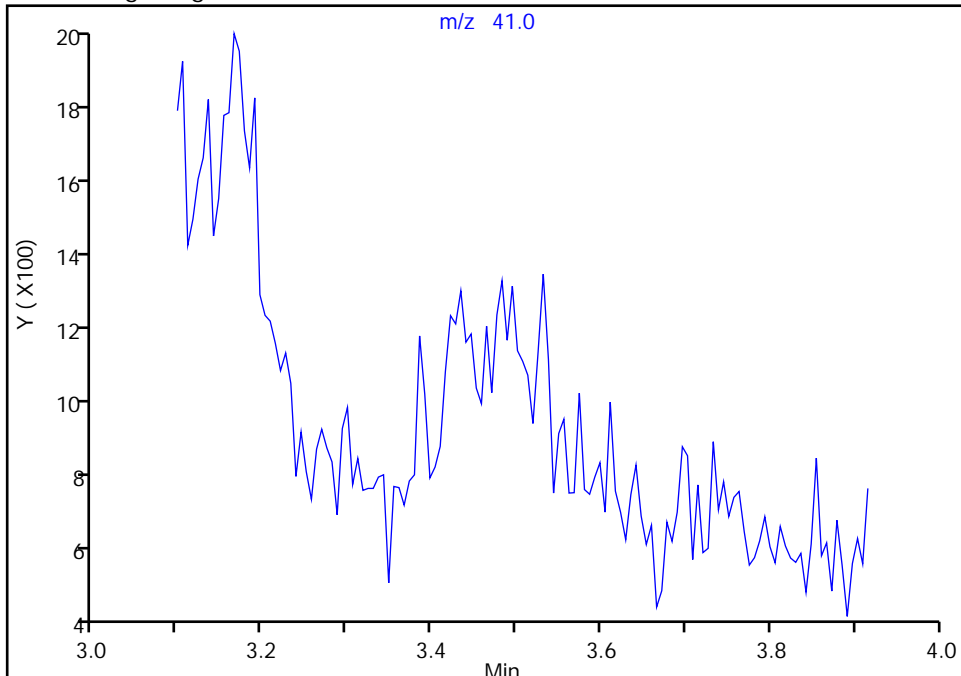
Data File:	\\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X04.D		
Injection Date:	01-May-2023 16:02:30	Instrument ID:	10193
Lims ID:	IC STD1 Sm		
Client ID:			
Operator ID:	knk41612	ALS Bottle#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D
Column:	Rxi-624Sil MS Capillary Column (0.25mm ID)	Detector:	MS Quad
		Worklist Smp#:	5

27 Acetonitrile, CAS: 75-05-8

Signal: 1

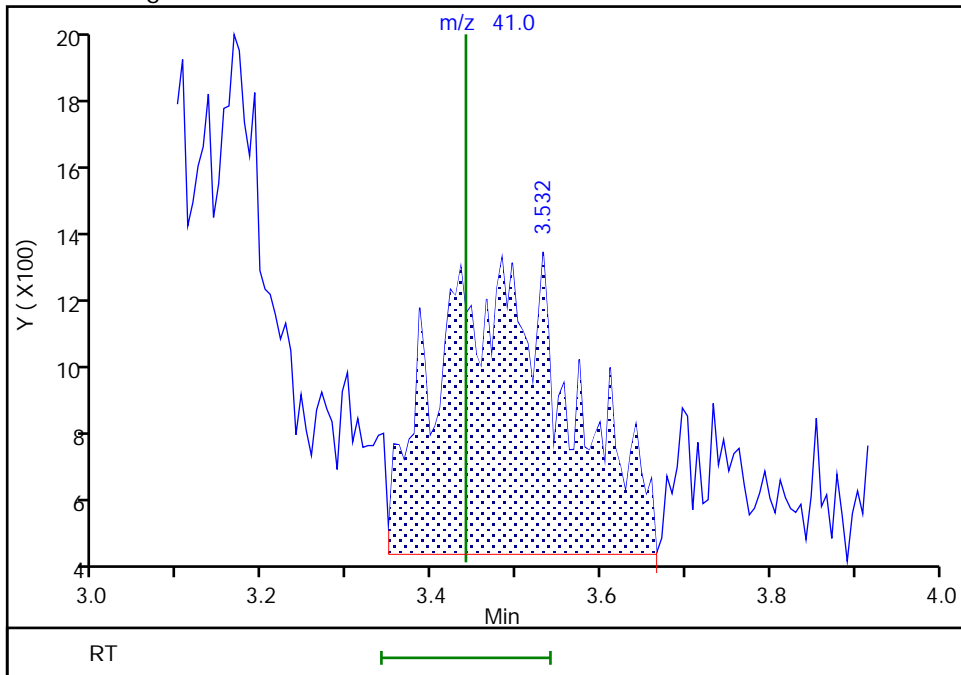
RT: 3.43
 Area: 0
 Amount: 0
 Amount Units: ug/l

Processing Integration Results



RT: 3.53
 Area: 9115
 Amount: 5.659326
 Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 07:49:04 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

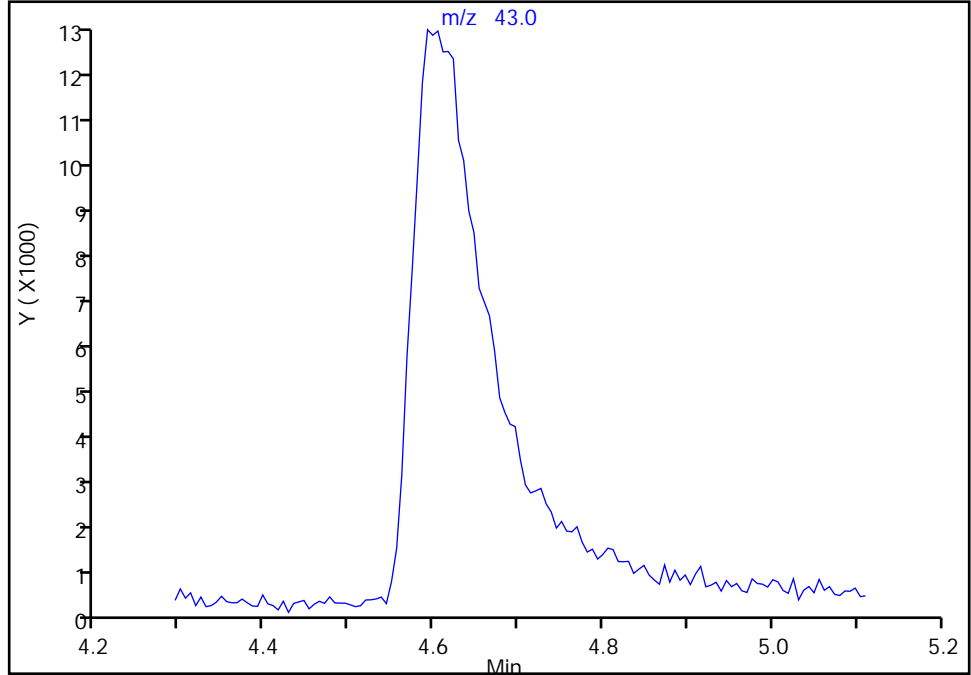
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X04.D
Injection Date: 01-May-2023 16:02:30 Instrument ID: 10193
Lims ID: IC STD1 Sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

38 Vinyl acetate, CAS: 108-05-4

Signal: 1

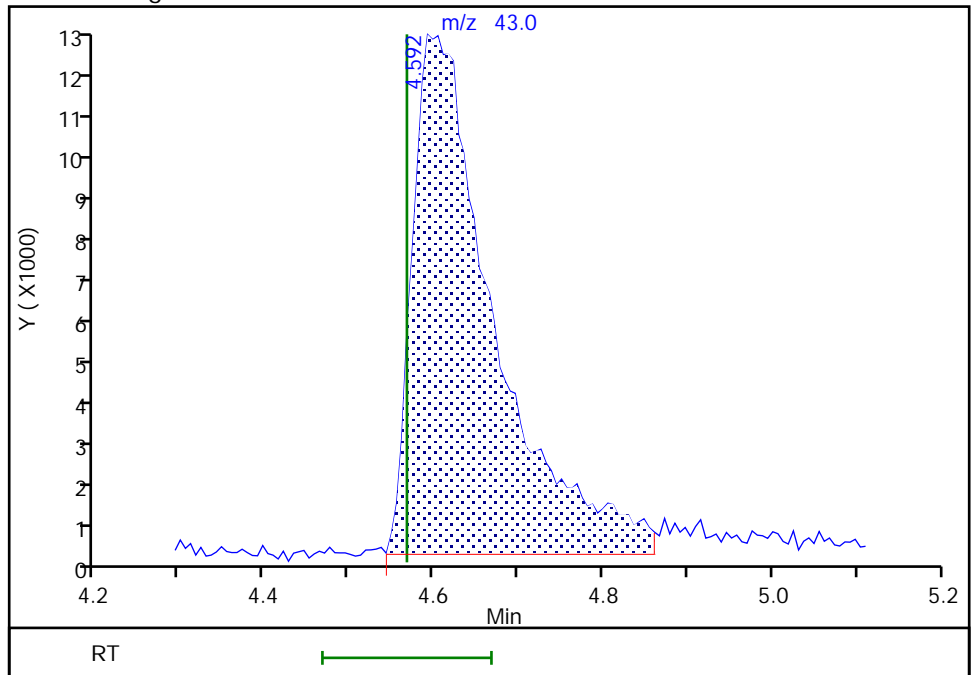
Not Detected
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.59
Area: 77709
Amount: 1.041175
Amount Units: ug/l



Reviewer: DVW2, 02-May-2023 07:49:10 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

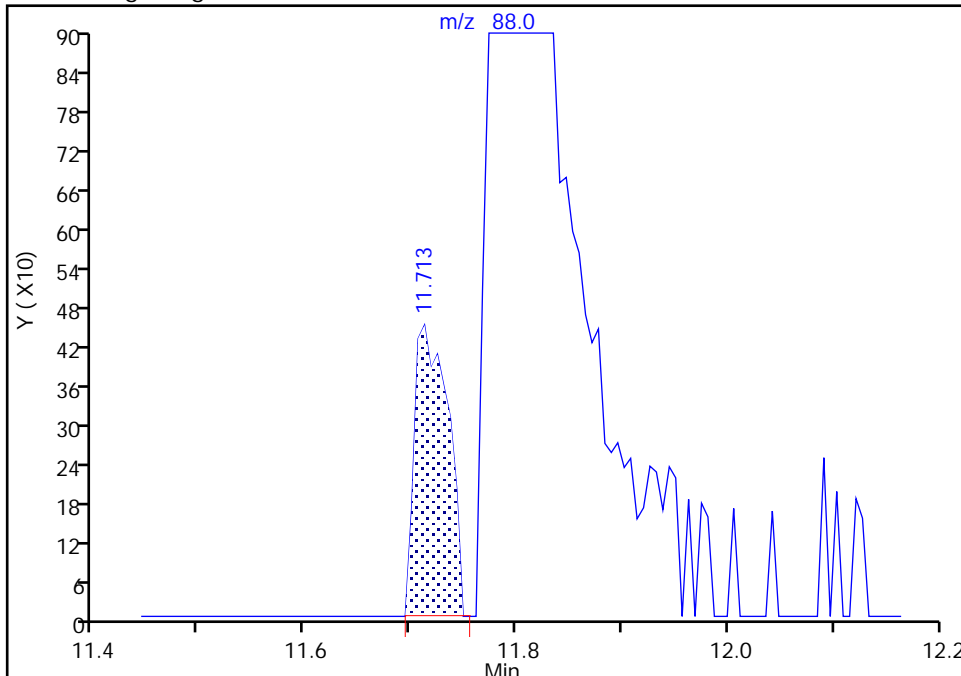
Data File:	\\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X04.D		
Injection Date:	01-May-2023 16:02:30	Instrument ID:	10193
Lims ID:	IC STD1 Sm		
Client ID:			
Operator ID:	knk41612	ALS Bottle#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D
Column:	Rxi-624Sil MS Capillary Column (0.25mm ID)	Detector:	MS Quad
		Worklist Smp#:	5

122 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

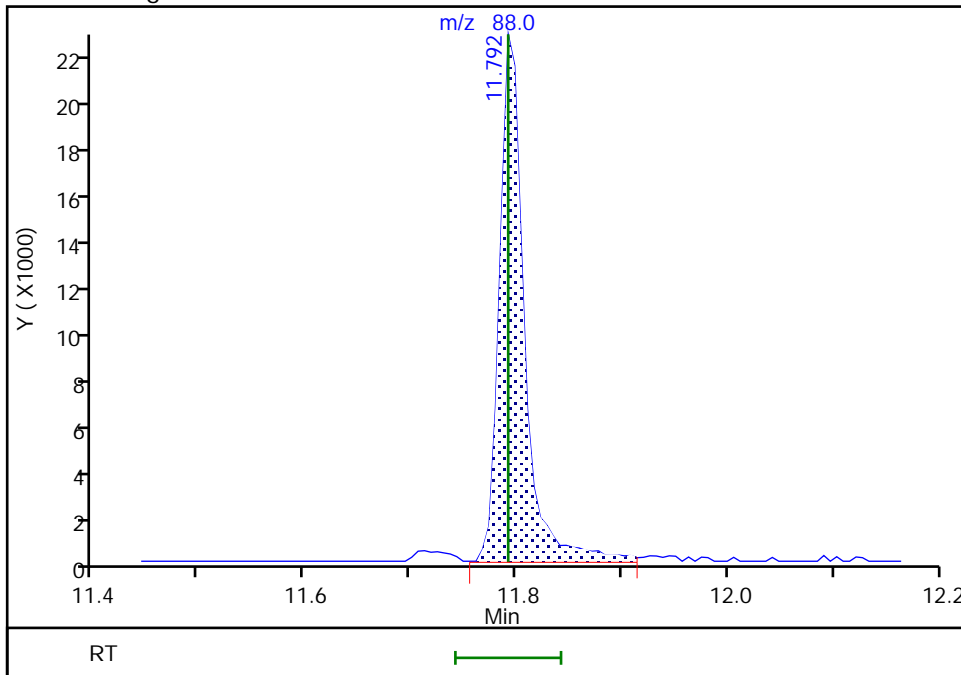
RT: 11.71
 Area: 981
 Amount: 0.053963
 Amount Units: ug/l

Processing Integration Results



RT: 11.79
 Area: 36485
 Amount: 1.677612
 Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 07:49:22 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

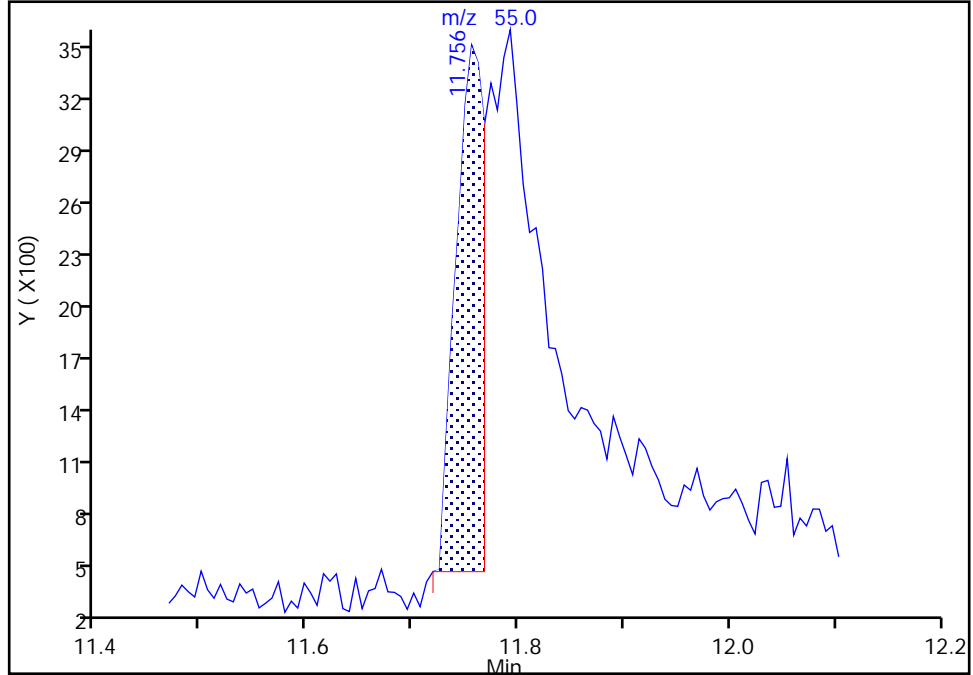
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X04.D
 Injection Date: 01-May-2023 16:02:30 Instrument ID: 10193
 Lims ID: IC STD1 Sm
 Client ID:
 Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
 Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

123 Cyclohexanone, CAS: 108-94-1

Signal: 1

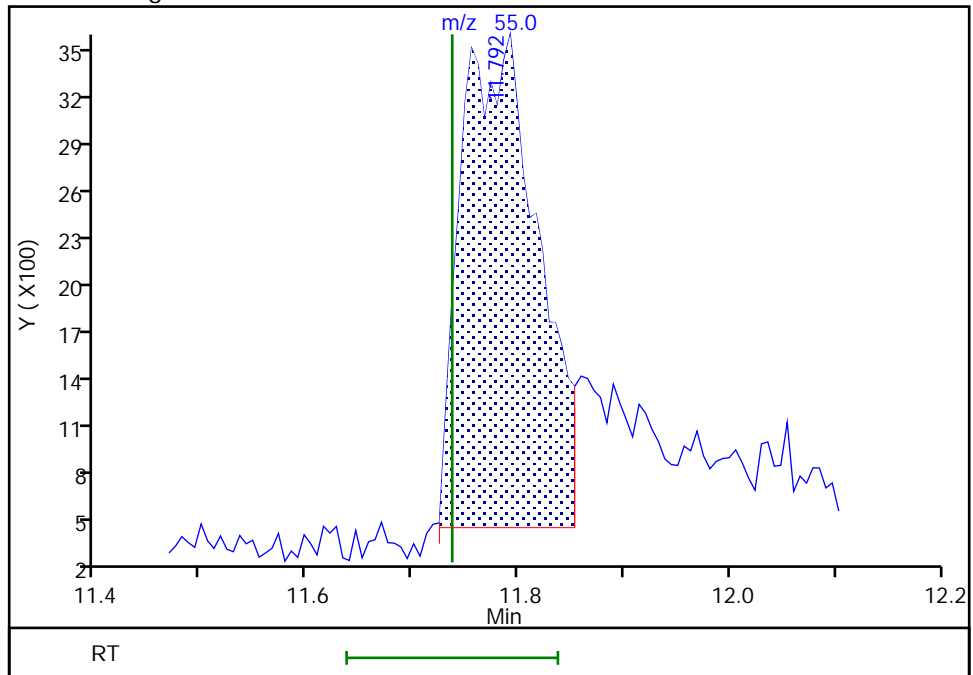
RT: 11.76
 Area: 5695
 Amount: 19.814474
 Amount Units: ug/l

Processing Integration Results



RT: 11.79
 Area: 16036
 Amount: 40.729276
 Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 07:49:42 -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\10193\20230501-82854.b\CY01X05.D
 Lims ID: IC STD2 Sm
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 01-May-2023 16:24:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0082854-006
 Misc. Info.: IC STD2 SM
 Operator ID: knk41612 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub26
 Method: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-May-2023 07:27:28 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: DVW2 Date: 02-May-2023 07:50:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.678	1.684	-0.006	95	60408	2.00	1.84	
3 Chlorodifluoromethane	51	1.721	1.727	-0.006	97	146073	2.00	1.79	
4 Dimethyl ether	45	1.776	1.776	0.000	99	148642	2.00	1.80	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.056	2.062	-0.006	34	133862	2.00	1.81	
27 Acetonitrile	41	3.458	3.440	0.018	19	13999	10.0	8.79	M
* 31 t-Butyl alcohol-d10 (IS)	65	3.653	3.672	-0.019	96	120167	50.0	50.0	
38 Vinyl acetate	43	4.580	4.568	0.012	97	140346	2.00	1.90	a
46 Ethyl acetate	43	5.519	5.494	0.025	99	56766	2.00	2.05	
63 Isopropyl acetate	43	6.763	6.756	0.007	98	148212	2.00	1.93	
* 65 Fluorobenzene (IS)	96	7.061	7.055	0.006	99	2002456	10.0	10.0	
75 n-Propyl acetate	61	8.116	8.104	0.012	98	30185	2.00	1.88	
79 2-Chloroethyl vinyl ether	63	8.658	8.646	0.012	92	50675	2.00	1.95	
109 n-Butyl acetate	43	10.164	10.158	0.006	98	116794	2.00	1.93	
* 111 Chlorobenzene-d5 (IS)	117	10.743	10.743	0.000	85	1902638	10.0	10.0	
123 Cyclohexanone	55	11.743	11.737	0.006	92	43680	100.0	99.3	M
122 cis-1,4-Dichloro-2-butene	88	11.792	11.792	0.000	40	35257	4.00	1.63	a
* 139 1,4-Dichlorobenzene-d4	152	12.700	12.700	0.000	94	1139584	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_V5ACE_00023	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00005	Amount Added: 8.00	Units: uL
MSV_V_SMRV4_00058	Amount Added: 5.00	Units: uL
MSV_HP25_ISO_00008	Amount Added: 1.00	Units: uL
MSV_DME_00047	Amount Added: 1.00	Units: uL

Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X05.D

Injection Date: 01-May-2023 16:24:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: IC STD2 Sm

Worklist Smp#: 6

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

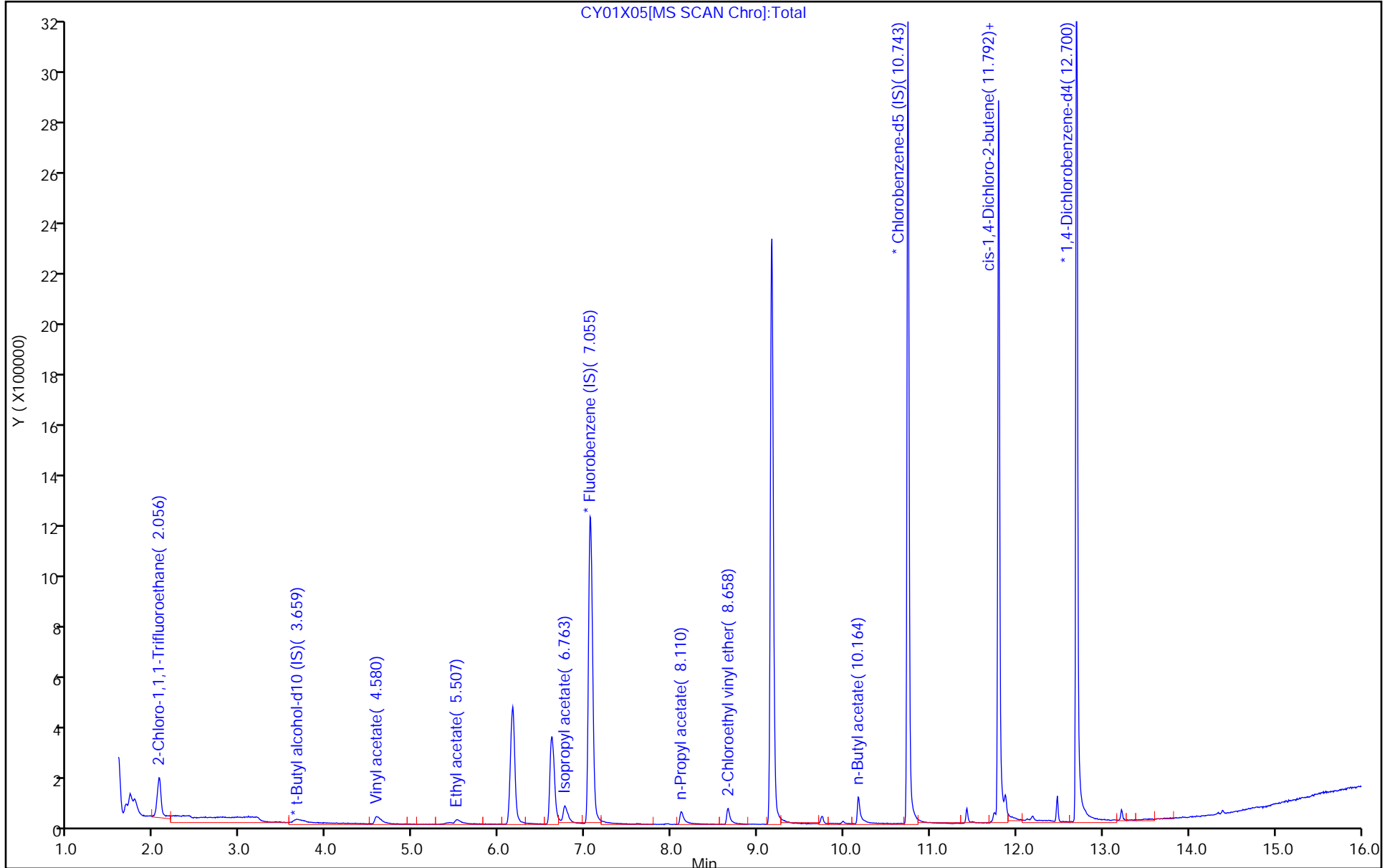
ALS Bottle#: 5

Method: MSV_10193_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

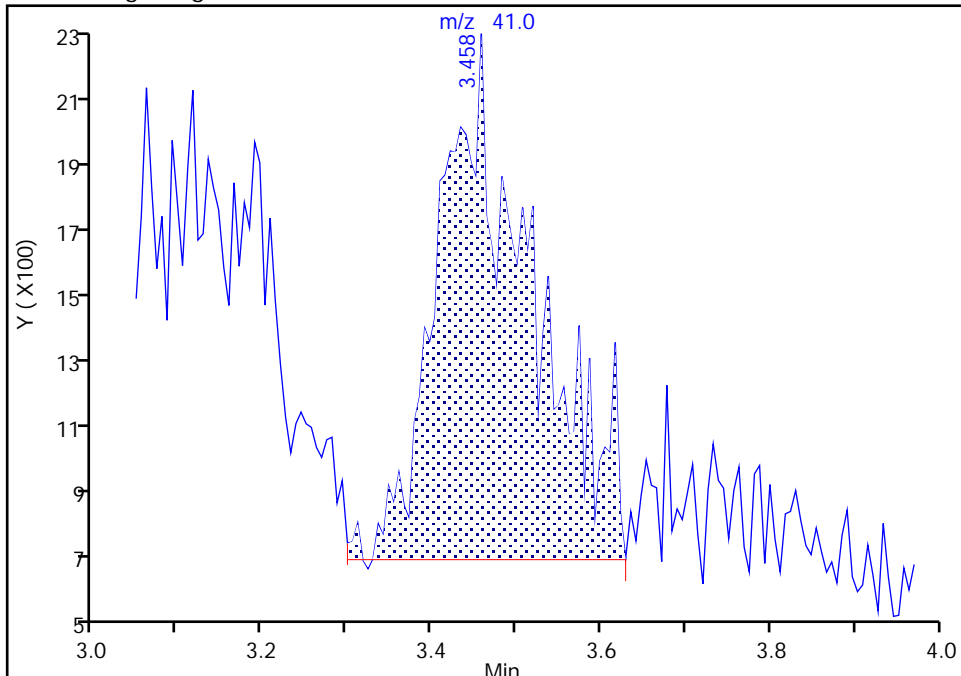
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X05.D
Injection Date: 01-May-2023 16:24:30 Instrument ID: 10193
Lims ID: IC STD2 Sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

27 Acetonitrile, CAS: 75-05-8

Signal: 1

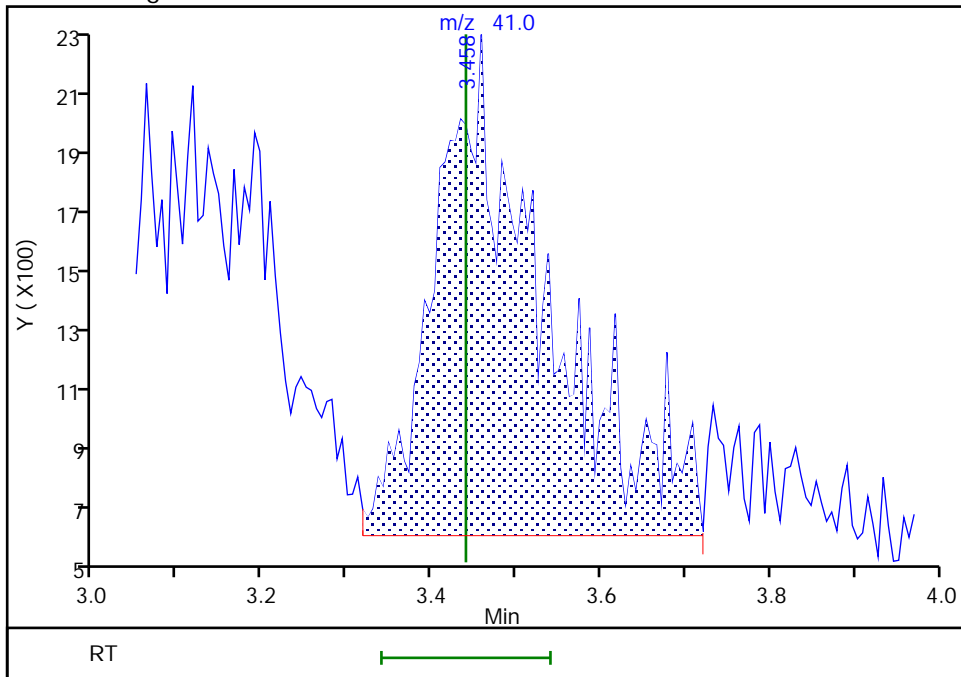
RT: 3.46
Area: 11242
Amount: 4.636573
Amount Units: ug/l

Processing Integration Results



RT: 3.46
Area: 13999
Amount: 8.787953
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 08:14:45 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

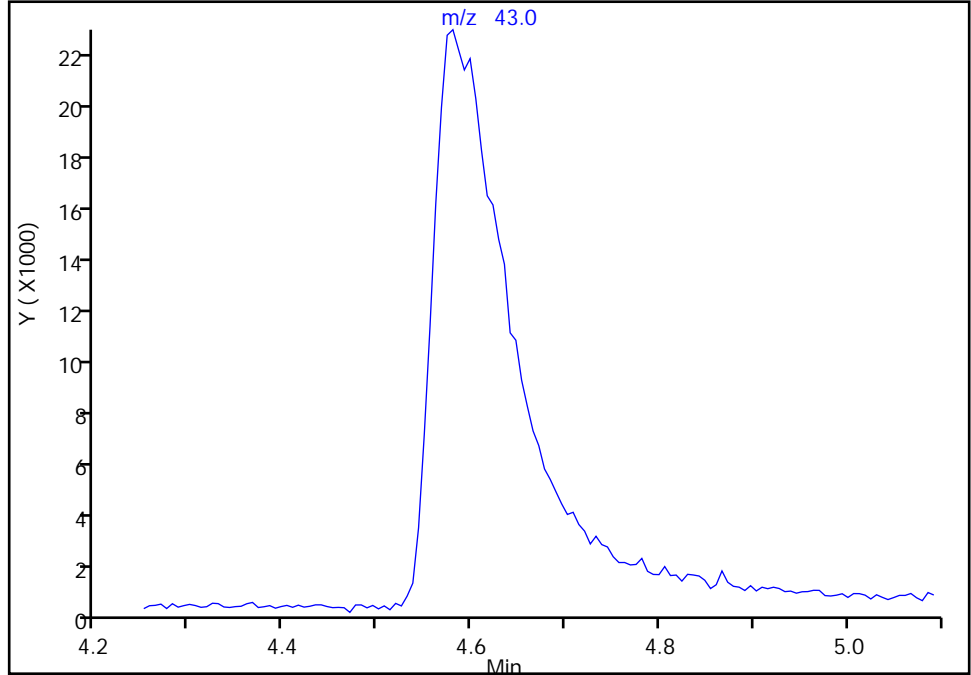
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X05.D
Injection Date: 01-May-2023 16:24:30 Instrument ID: 10193
Lims ID: IC STD2 Sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

38 Vinyl acetate, CAS: 108-05-4

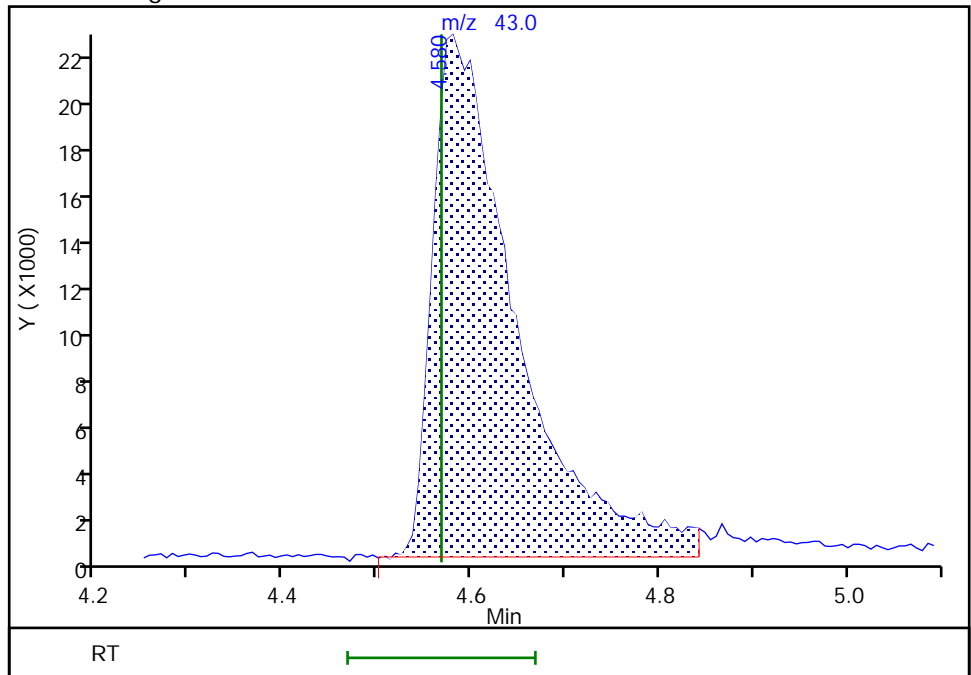
Signal: 1

Not Detected
Expected RT: 4.57

Processing Integration Results



Manual Integration Results



RT: 4.58
Area: 140346
Amount: 1.901233
Amount Units: ug/l

Reviewer: DVW2, 02-May-2023 07:49:58 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

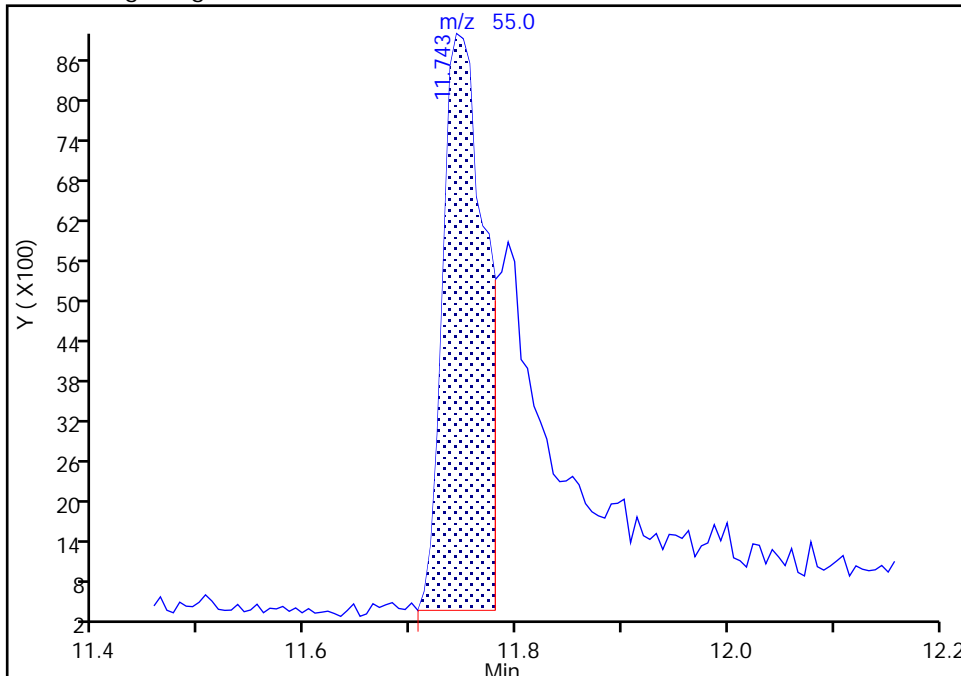
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X05.D
Injection Date: 01-May-2023 16:24:30 Instrument ID: 10193
Lims ID: IC STD2 Sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

123 Cyclohexanone, CAS: 108-94-1

Signal: 1

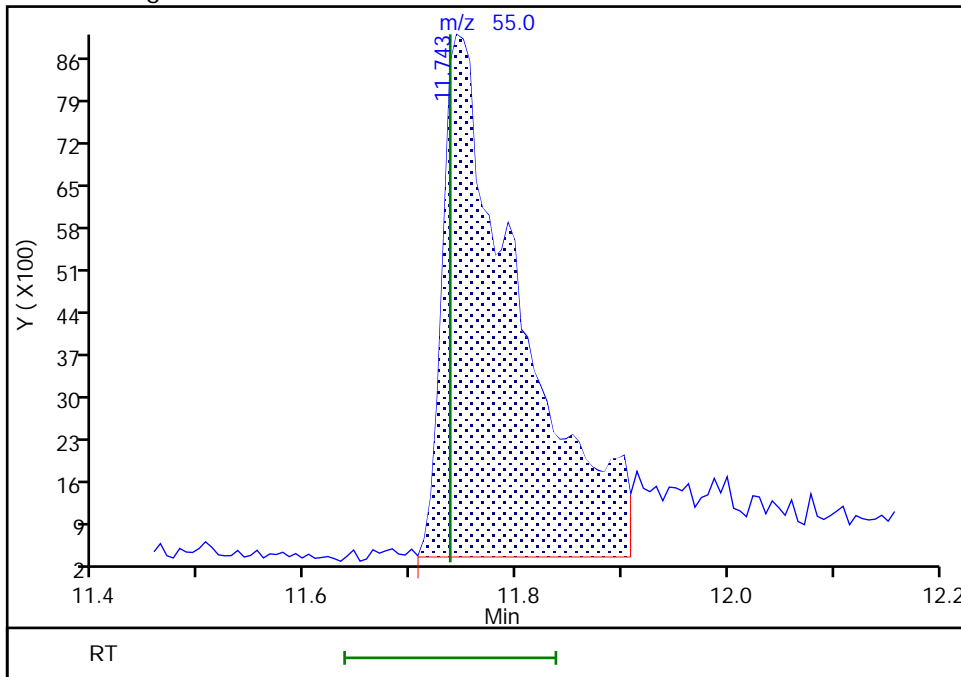
RT: 11.74
Area: 23967
Amount: 67.652652
Amount Units: ug/l

Processing Integration Results



RT: 11.74
Area: 43680
Amount: 99.259727
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 08:15:11 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

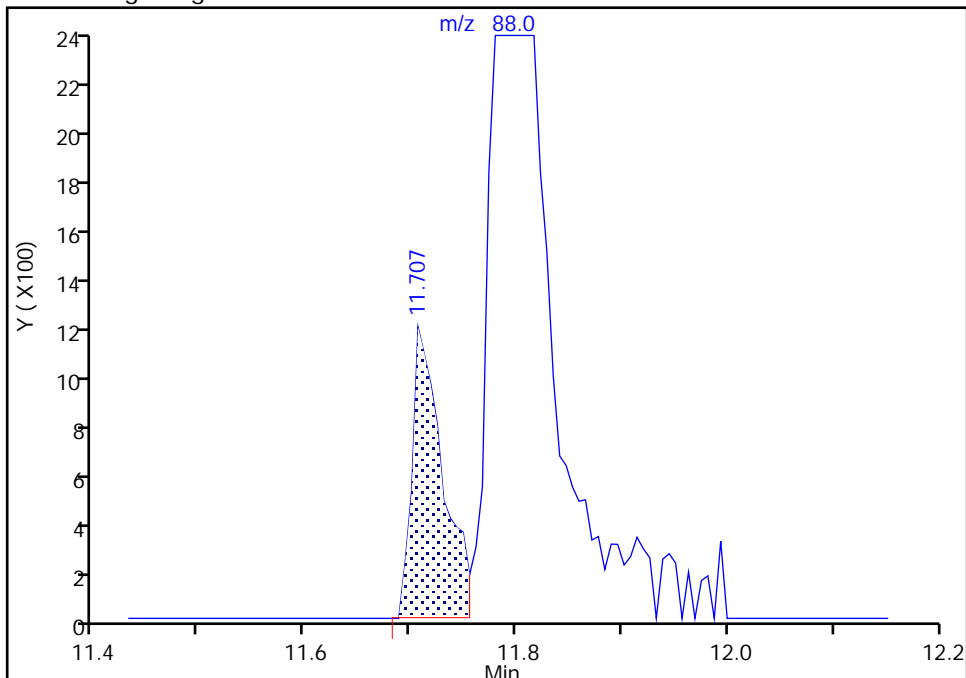
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X05.D
Injection Date: 01-May-2023 16:24:30 Instrument ID: 10193
Lims ID: IC STD2 Sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

122 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

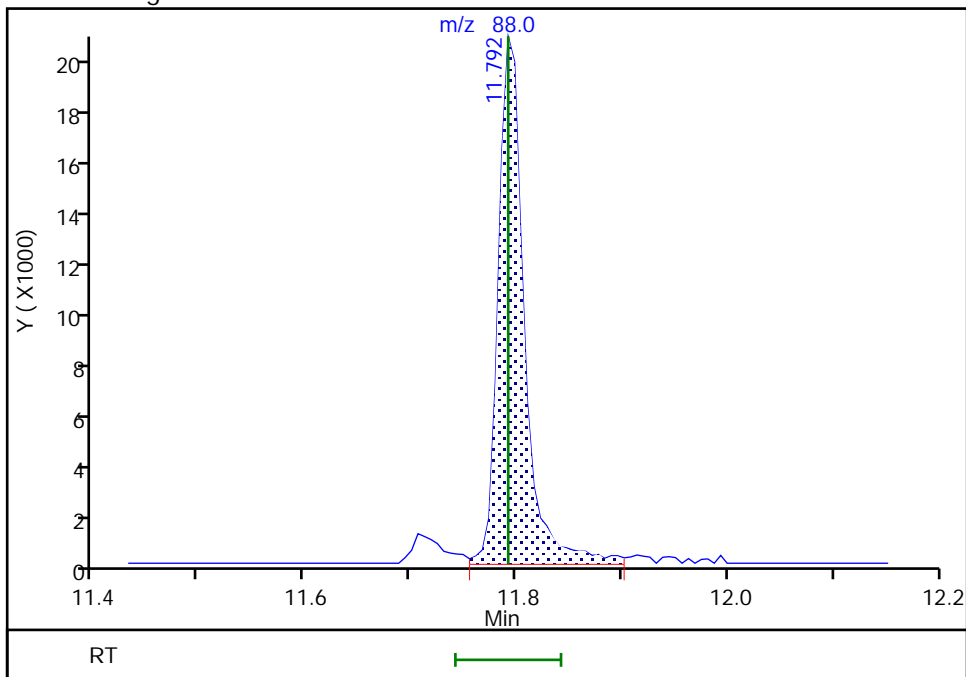
RT: 11.71
Area: 2331
Amount: 0.113086
Amount Units: ug/l

Processing Integration Results



RT: 11.79
Area: 35257
Amount: 1.629181
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 07:50:05 -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\10193\20230501-82854.b\CY01X06.D
 Lims ID: IC STD5 Sm
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 01-May-2023 16:47:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0082854-007
 Misc. Info.: IC STD5 SM
 Operator ID: knk41612 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub26
 Method: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-May-2023 07:27:30 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: DVW2

Date: 02-May-2023 07:50:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.678	1.684	-0.006	92	170632	5.00	5.29	
3 Chlorodifluoromethane	51	1.727	1.727	0.000	97	400804	5.00	5.00	
4 Dimethyl ether	45	1.776	1.776	0.000	99	368579	5.00	4.53	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.062	2.062	0.000	35	377586	5.00	5.19	
27 Acetonitrile	41	3.471	3.440	0.031	94	36455	25.0	23.2	M
* 31 t-Butyl alcohol-d10 (IS)	65	3.660	3.672	-0.012	95	94834	50.0	50.0	
38 Vinyl acetate	43	4.574	4.568	0.006	97	353010	5.00	4.85	a
46 Ethyl acetate	43	5.507	5.494	0.013	99	135527	5.00	4.96	
63 Isopropyl acetate	43	6.769	6.756	0.013	98	386368	5.00	5.10	
* 65 Fluorobenzene (IS)	96	7.061	7.055	0.006	99	1973684	10.0	10.0	
75 n-Propyl acetate	61	8.104	8.104	0.000	98	82299	5.00	5.20	
79 2-Chloroethyl vinyl ether	63	8.652	8.646	0.006	92	138419	5.00	5.40	
109 n-Butyl acetate	43	10.164	10.158	0.006	98	317718	5.00	5.35	
* 111 Chlorobenzene-d5 (IS)	117	10.744	10.743	0.001	85	1868174	10.0	10.0	
123 Cyclohexanone	55	11.737	11.737	0.000	92	86061	250.0	247.8	
122 cis-1,4-Dichloro-2-butene	88	11.792	11.792	0.000	40	34698	10.0	1.63	a
* 139 1,4-Dichlorobenzene-d4	152	12.700	12.700	0.000	94	1116498	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_V5ACE_00023	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00005	Amount Added: 8.00	Units: uL
MSV_V_SMRV4_00058	Amount Added: 5.00	Units: uL
MSV_HP25_ISO_00008	Amount Added: 1.00	Units: uL
MSV_DME_00047	Amount Added: 1.00	Units: uL

Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X06.D

Injection Date: 01-May-2023 16:47:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: IC STD5 Sm

Worklist Smp#: 7

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

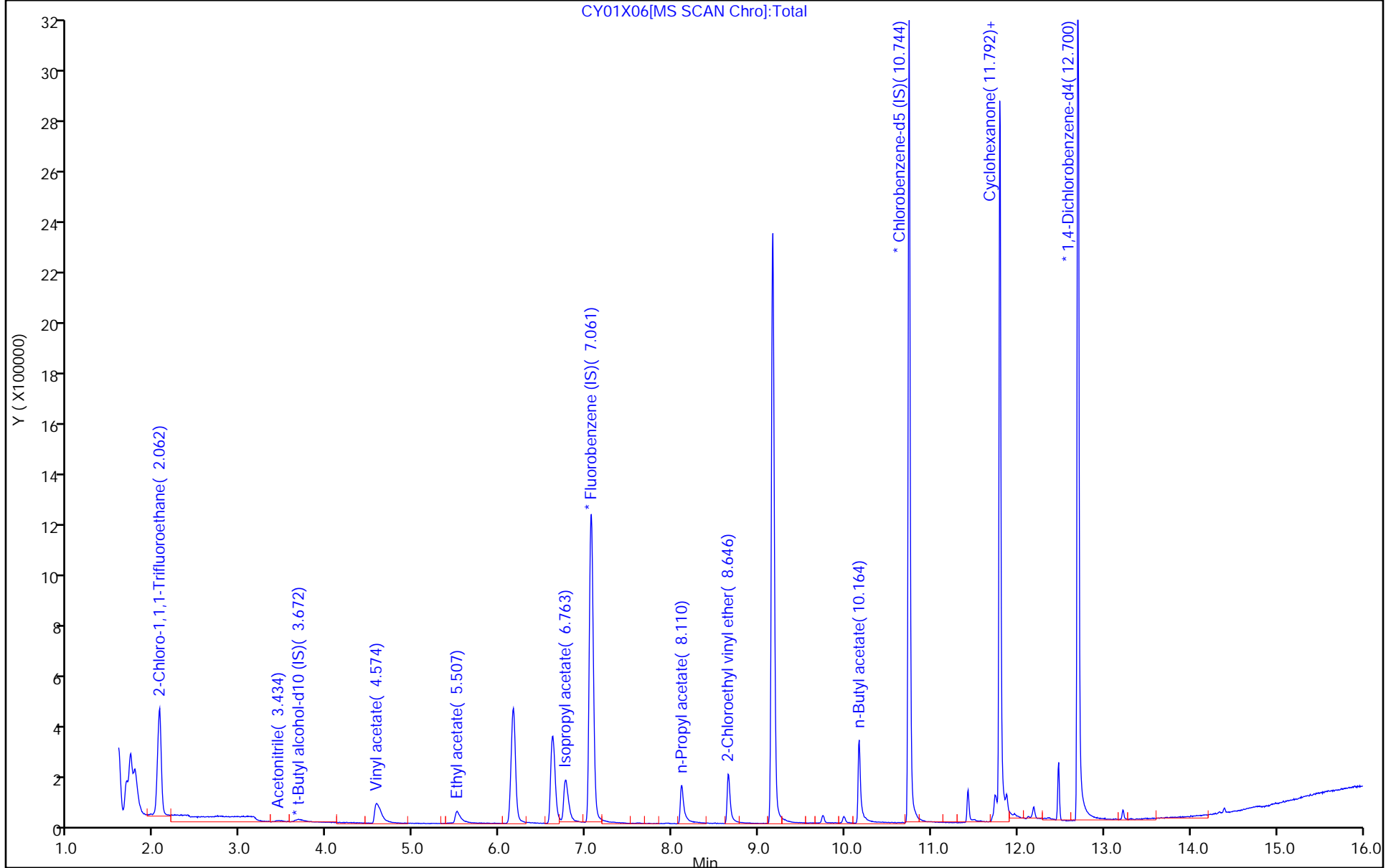
ALS Bottle#: 6

Method: MSV_10193_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

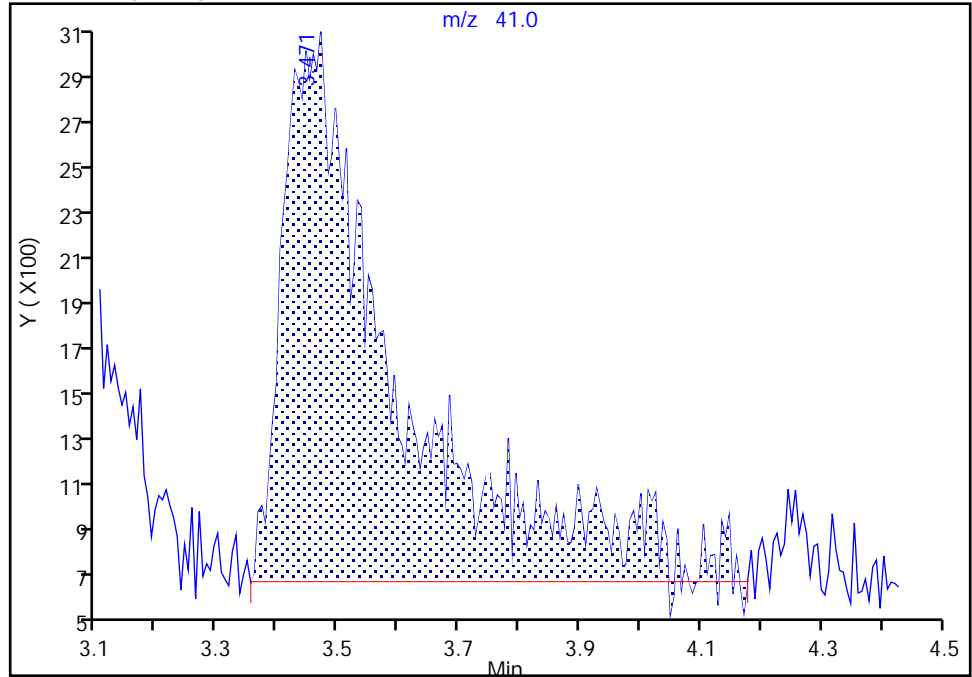
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X06.D
Injection Date: 01-May-2023 16:47:30 Instrument ID: 10193
Lims ID: IC STD5 Sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

27 Acetonitrile, CAS: 75-05-8

Signal: 1

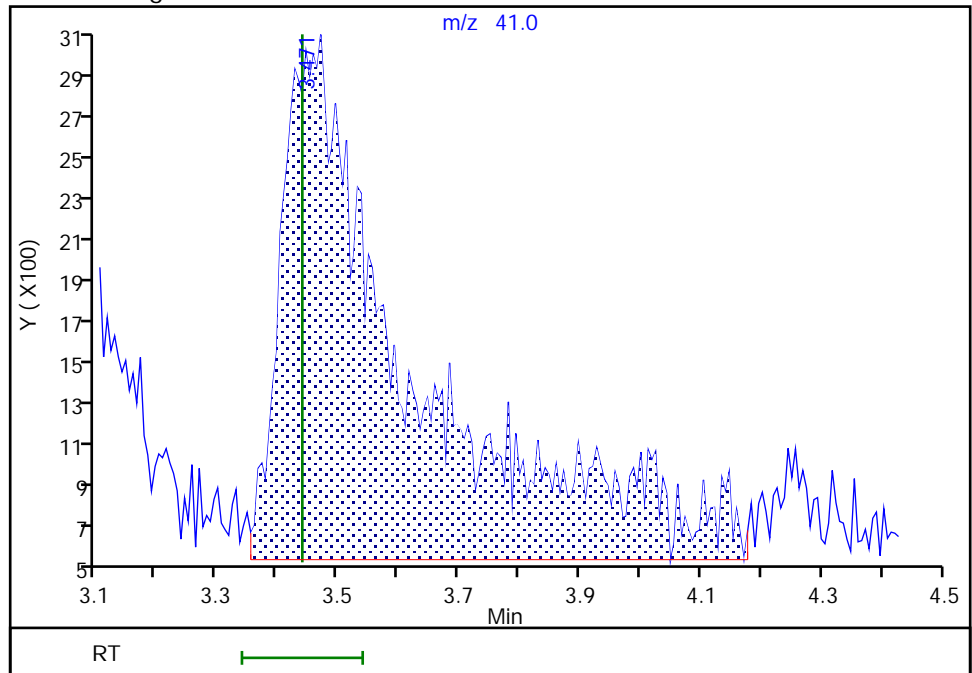
RT: 3.47
Area: 30386
Amount: 17.260626
Amount Units: ug/l

Processing Integration Results



RT: 3.47
Area: 36455
Amount: 23.218447
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 08:15:38 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Euofins Lancaster Laboratories Environment Testing, LLC

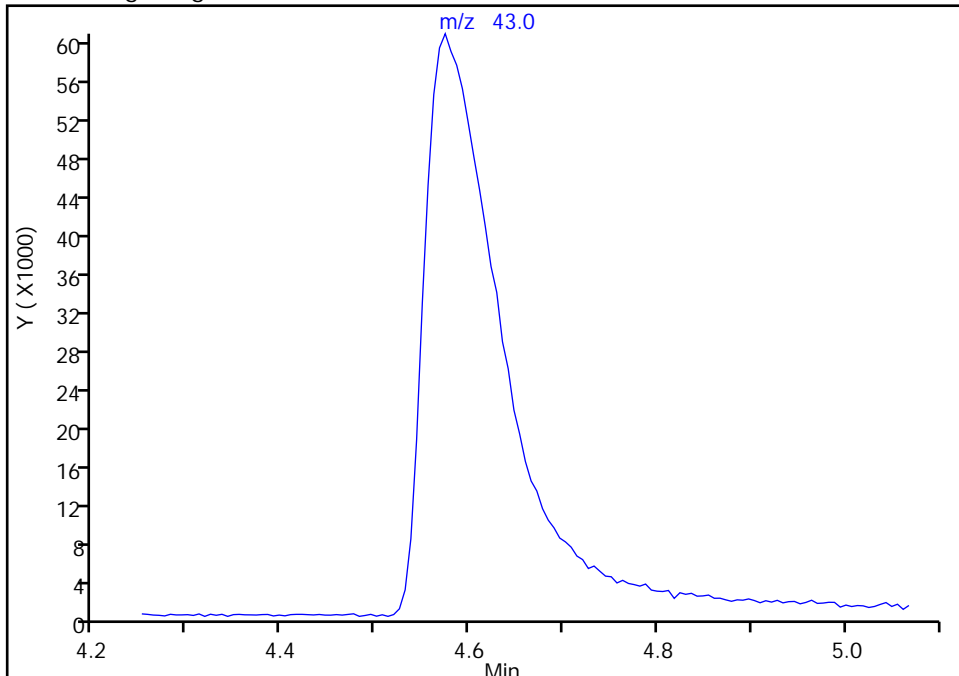
Data File:	\\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X06.D		
Injection Date:	01-May-2023 16:47:30	Instrument ID:	10193
Lims ID:	IC STD5 Sm		
Client ID:			
Operator ID:	knk41612	ALS Bottle#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D
Column:	Rxi-624Sil MS Capillary Column (0.25mm ID)	Detector:	MS Quad
		Worklist Smp#:	7

38 Vinyl acetate, CAS: 108-05-4

Signal: 1

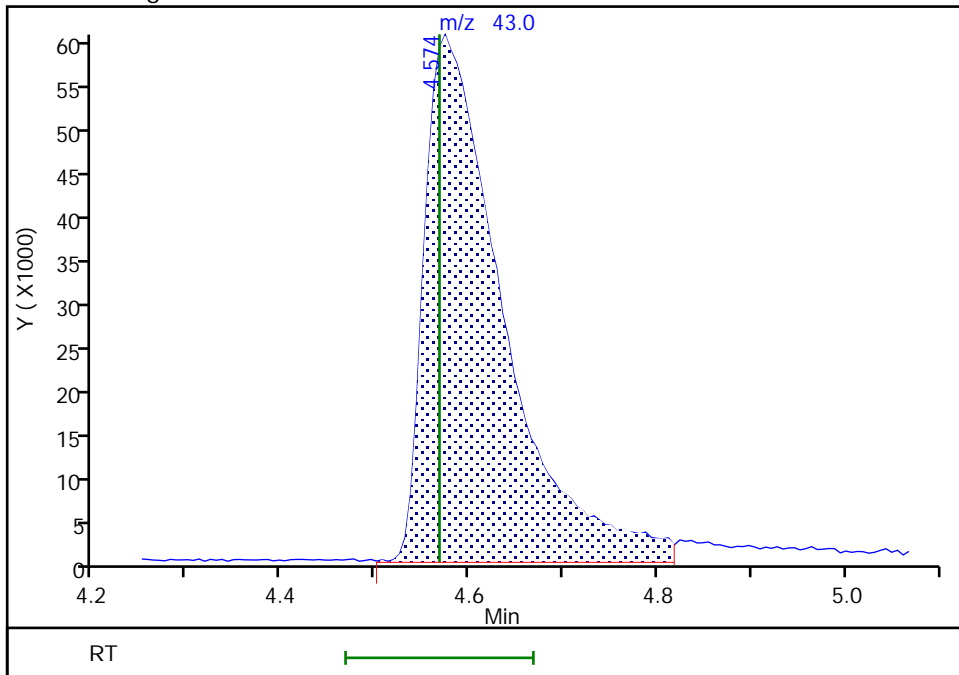
Not Detected
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.57
 Area: 353010
 Amount: 4.851853
 Amount Units: ug/l



Reviewer: DVW2, 02-May-2023 07:50:25 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

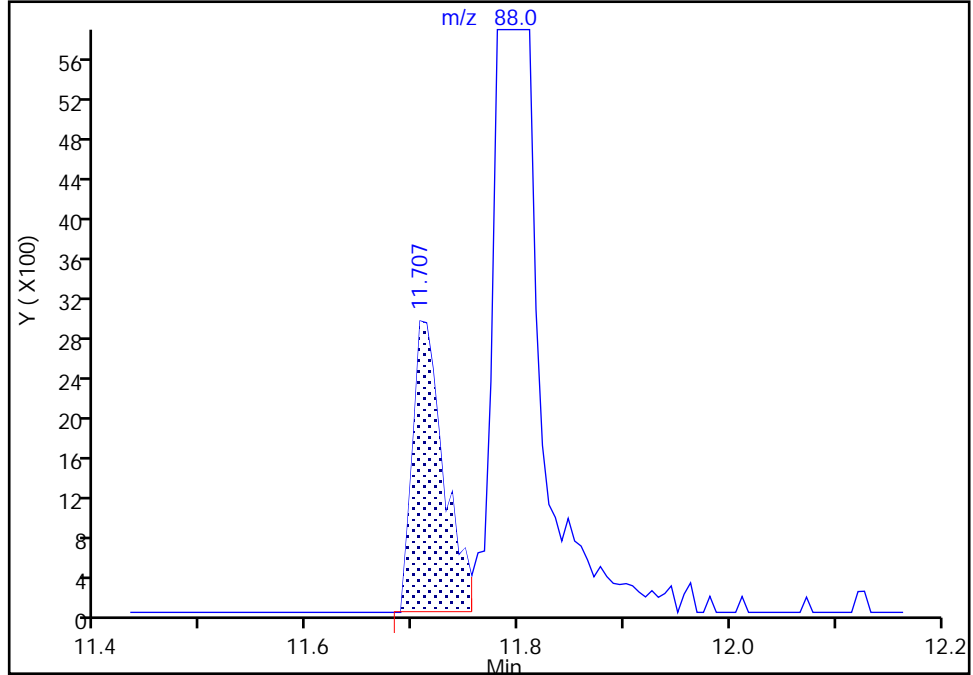
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X06.D
Injection Date: 01-May-2023 16:47:30 Instrument ID: 10193
Lims ID: IC STD5 Sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

122 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

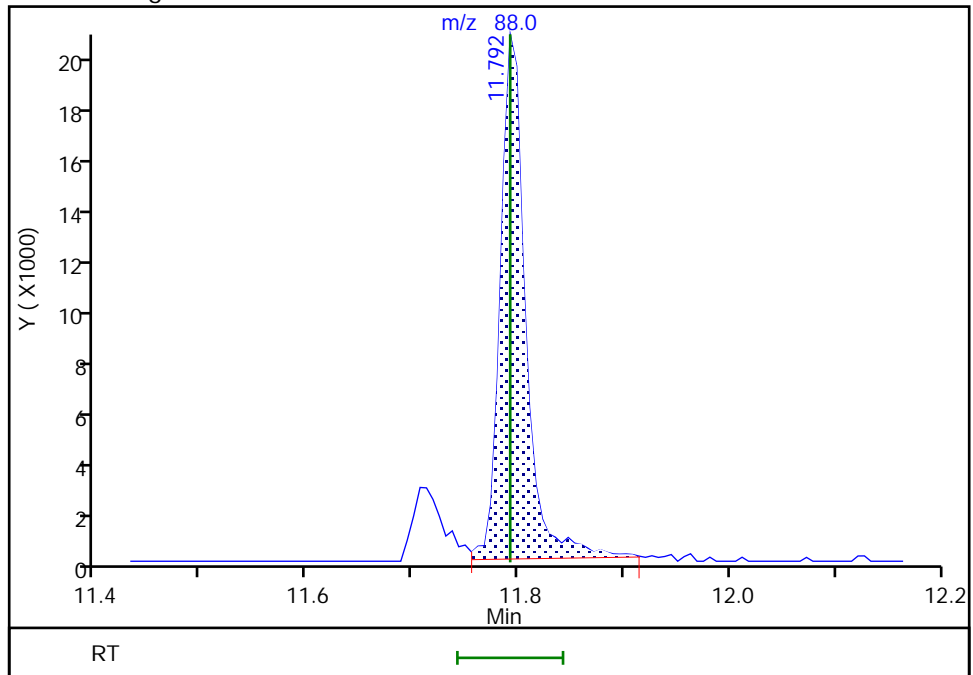
RT: 11.71
Area: 6055
Amount: 0.283025
Amount Units: ug/l

Processing Integration Results



RT: 11.79
Area: 34698
Amount: 1.632929
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 07:50:32 -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\10193\20230501-82854.b\CY01X07.D
 Lims ID: IC STD10 Sm
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 01-May-2023 17:09:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0082854-008
 Misc. Info.: IC STD10 SM
 Operator ID: knk41612 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub26
 Method: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-May-2023 07:27:31 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: UKEK Date: 03-May-2023 10:24:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.684	1.684	0.000	92	357492	10.0	11.2	
3 Chlorodifluoromethane	51	1.727	1.727	0.000	97	816179	10.0	10.2	
4 Dimethyl ether	45	1.776	1.776	0.000	99	761661	10.0	9.43	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.062	2.062	0.000	34	771745	10.0	10.7	
27 Acetonitrile	41	3.440	3.440	0.000	94	70643	50.0	45.3	M
* 31 t-Butyl alcohol-d10 (IS)	65	3.672	3.672	0.000	97	106281	50.0	50.0	
38 Vinyl acetate	43	4.568	4.568	0.000	97	725711	10.0	10.0	a
46 Ethyl acetate	43	5.494	5.494	0.000	99	290778	10.0	10.7	
63 Isopropyl acetate	43	6.756	6.756	0.000	98	721338	10.0	9.58	a
* 65 Fluorobenzene (IS)	96	7.055	7.055	0.000	99	1959585	10.0	10.0	
75 n-Propyl acetate	61	8.104	8.104	0.000	98	167501	10.0	10.7	
79 2-Chloroethyl vinyl ether	63	8.646	8.646	0.000	92	286556	10.0	11.3	
109 n-Butyl acetate	43	10.158	10.158	0.000	98	651788	10.0	11.1	
* 111 Chlorobenzene-d5 (IS)	117	10.743	10.743	0.000	85	1854042	10.0	10.0	
123 Cyclohexanone	55	11.737	11.737	0.000	93	236576	500.0	607.8	
122 cis-1,4-Dichloro-2-butene	88	11.792	11.792	0.000	40	34384	20.0	1.63	a
* 139 1,4-Dichlorobenzene-d4	152	12.700	12.700	0.000	94	1105517	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_V5ACE_00023	Amount Added: 1.00	Units: uL
MSV_CCV_CYC_00005	Amount Added: 8.00	Units: uL
MSV_V_SMRV4_00058	Amount Added: 5.00	Units: uL
MSV_HP25_ISO_00008	Amount Added: 1.00	Units: uL
MSV_DME_00047	Amount Added: 1.00	Units: uL

Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X07.D

Injection Date: 01-May-2023 17:09:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: IC STD10 Sm

Worklist Smp#: 8

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

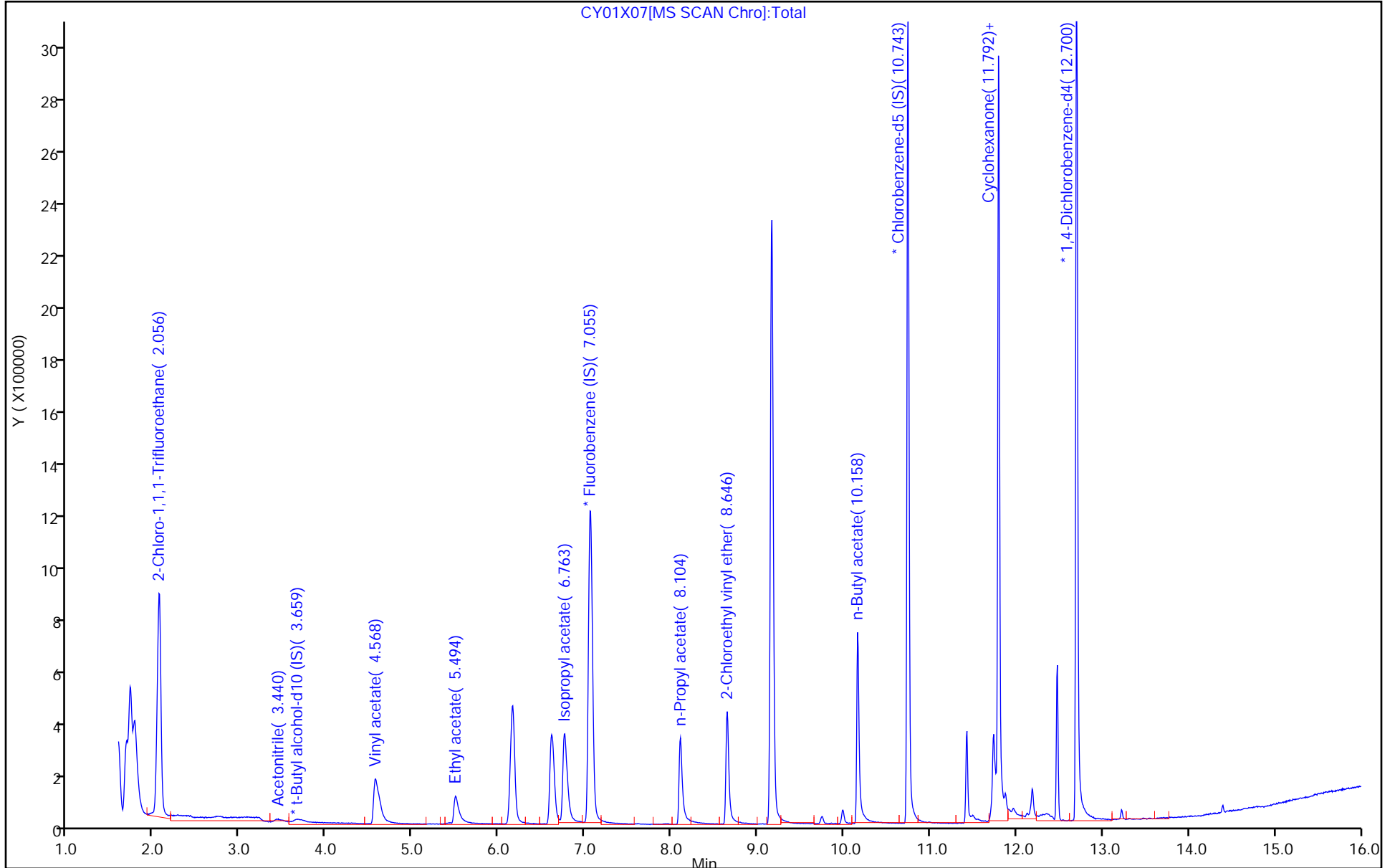
ALS Bottle#: 7

Method: MSV_10193_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

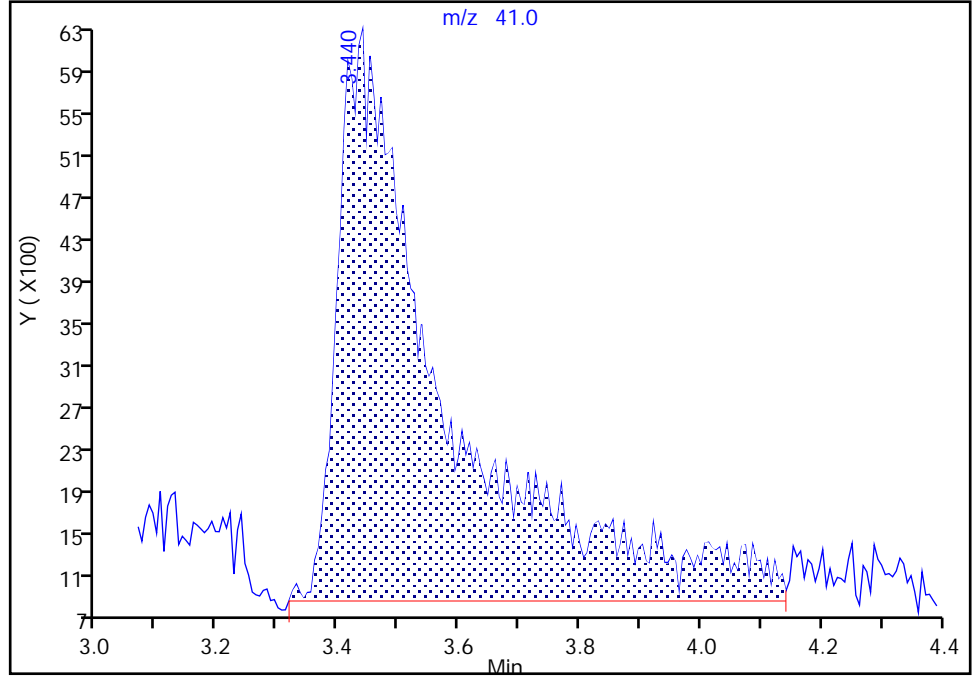
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X07.D
Injection Date: 01-May-2023 17:09:30 Instrument ID: 10193
Lims ID: IC STD10 Sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

27 Acetonitrile, CAS: 75-05-8

Signal: 1

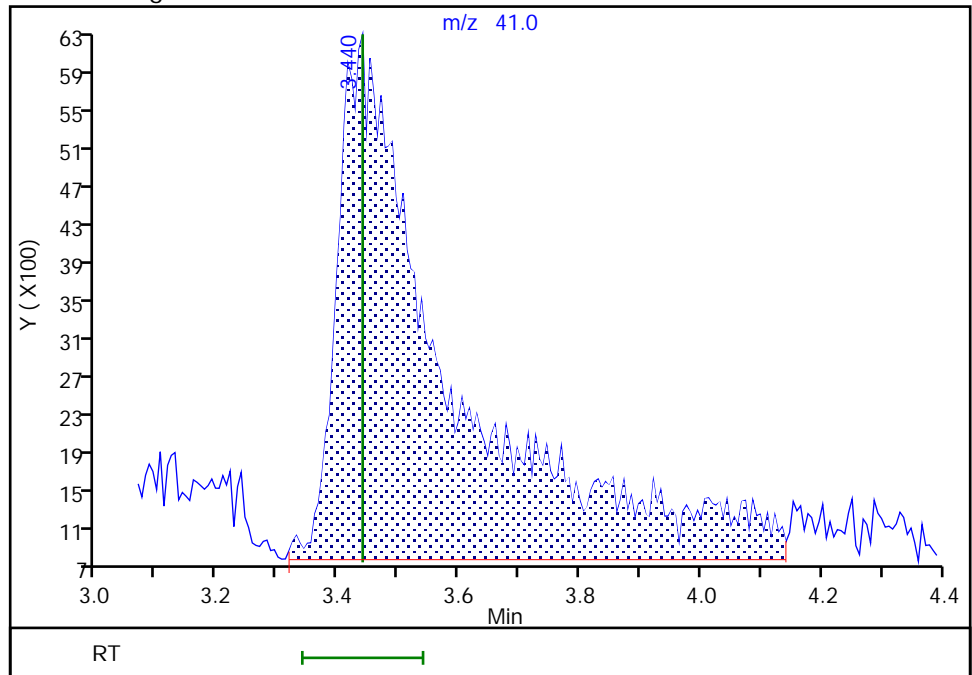
RT: 3.44
Area: 65767
Amount: 40.171556
Amount Units: ug/l

Processing Integration Results



RT: 3.44
Area: 70643
Amount: 45.316746
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 08:16:11 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

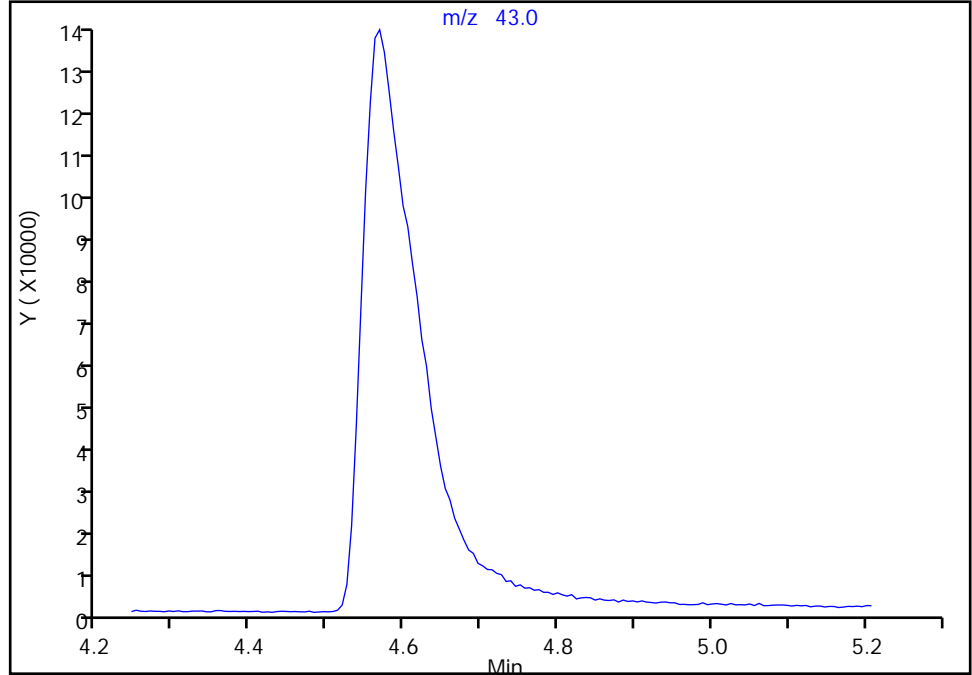
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X07.D
Injection Date: 01-May-2023 17:09:30 Instrument ID: 10193
Lims ID: IC STD10 Sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

38 Vinyl acetate, CAS: 108-05-4

Signal: 1

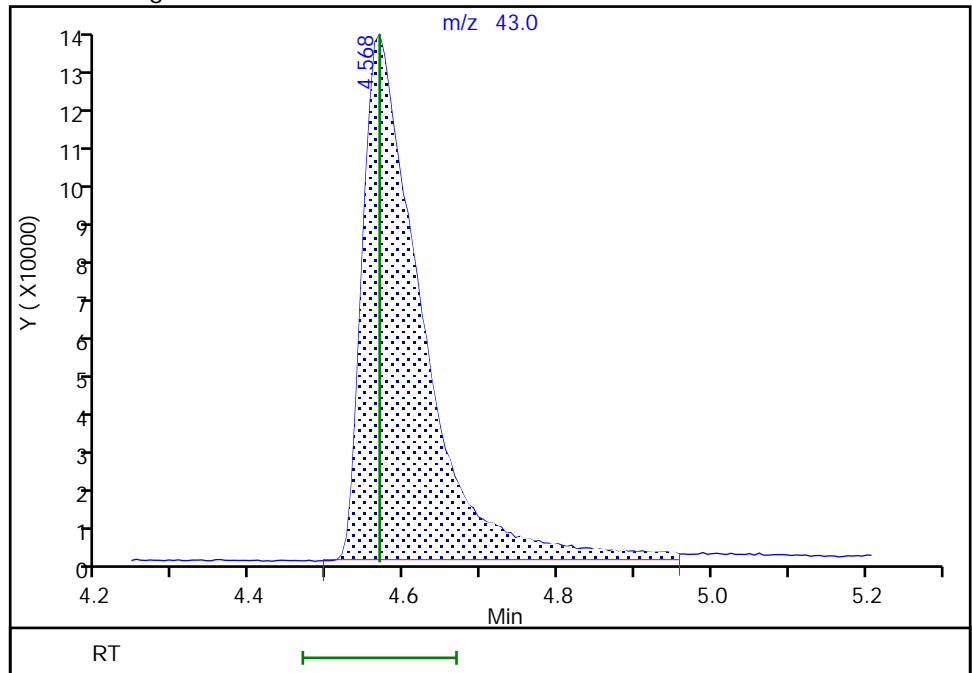
Not Detected
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.57
Area: 725711
Amount: 10.046108
Amount Units: ug/l



Reviewer: DVW2, 02-May-2023 07:50:50 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

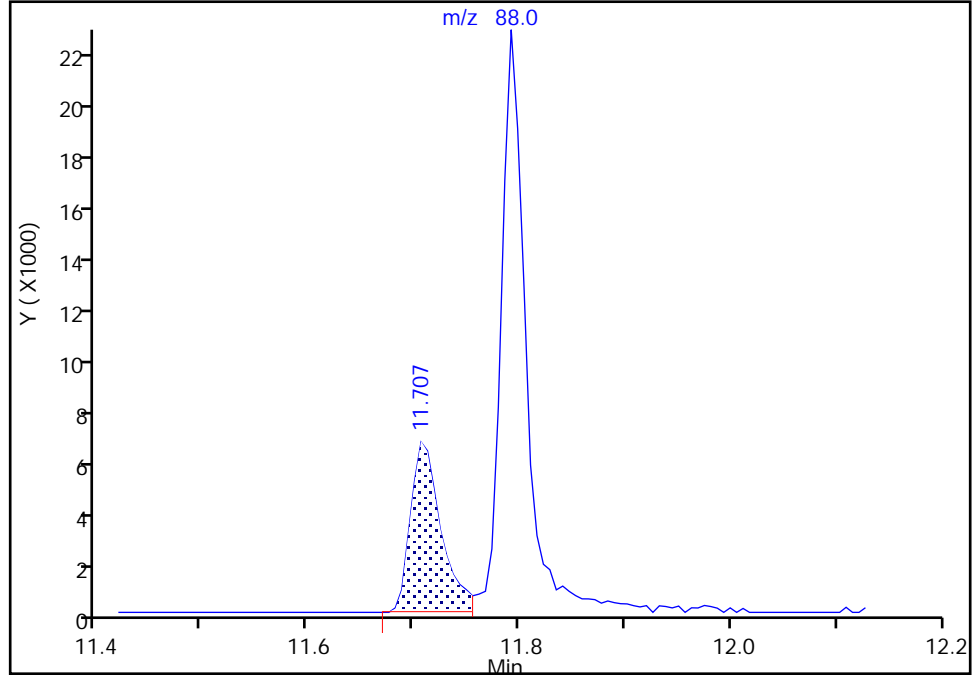
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X07.D
Injection Date: 01-May-2023 17:09:30 Instrument ID: 10193
Lims ID: IC STD10 Sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

122 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

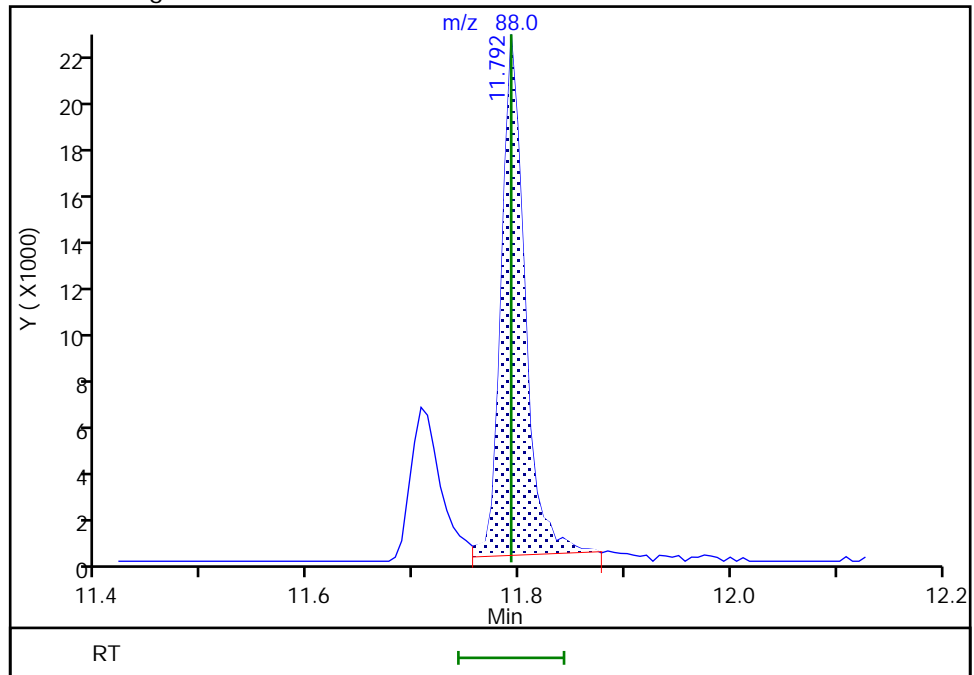
RT: 11.71
Area: 13099
Amount: 0.605368
Amount Units: ug/l

Processing Integration Results



RT: 11.79
Area: 34384
Amount: 1.630486
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 07:51:02 -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\10193\20230501-82854.b\CY01X08.D
 Lims ID: IC STD25 Sm
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 01-May-2023 17:31:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0082854-009
 Misc. Info.: IC STD25 SM
 Operator ID: knk41612 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub26
 Method: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-May-2023 07:27:33 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: DVW2

Date: 02-May-2023 07:52:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.684	1.684	0.000	92	948952	25.0	28.9	
3 Chlorodifluoromethane	51	1.727	1.727	0.000	97	2040371	25.0	25.0	
4 Dimethyl ether	45	1.776	1.776	0.000	99	1950872	25.0	23.5	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.056	2.062	-0.006	34	1911515	25.0	25.8	
27 Acetonitrile	41	3.416	3.440	-0.024	99	230746	125.0	144.3	
* 31 t-Butyl alcohol-d10 (IS)	65	3.647	3.672	-0.025	95	127499	50.0	50.0	
38 Vinyl acetate	43	4.556	4.568	-0.012	97	1876371	25.0	25.3	a
46 Ethyl acetate	43	5.482	5.494	-0.012	99	820020	25.0	29.4	
63 Isopropyl acetate	43	6.757	6.756	0.001	98	1911657	25.0	24.8	a
* 65 Fluorobenzene (IS)	96	7.061	7.055	0.006	99	2010350	10.0	10.0	
75 n-Propyl acetate	61	8.098	8.104	-0.006	98	432792	25.0	26.9	
79 2-Chloroethyl vinyl ether	63	8.640	8.646	-0.006	92	717596	25.0	27.5	
109 n-Butyl acetate	43	10.158	10.158	0.000	98	1721911	25.0	28.7	
* 111 Chlorobenzene-d5 (IS)	117	10.744	10.743	0.001	85	1887776	10.0	10.0	
123 Cyclohexanone	55	11.731	11.737	-0.006	93	723532	1250.0	1549.6	
122 cis-1,4-Dichloro-2-butene	88	11.792	11.792	0.000	40	39512	50.0	1.84	a
* 139 1,4-Dichlorobenzene-d4	152	12.700	12.700	0.000	96	1152616	10.0	10.0	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MSV_CCV_V5ACE_00023	Amount Added: 2.50	Units: uL
MSV_CCV_CYC_00005	Amount Added: 20.00	Units: uL
MSV_V_SMRV4_00058	Amount Added: 12.50	Units: uL
MSV_HP25_ISO_00008	Amount Added: 1.00	Units: uL
MSV_DME_00047	Amount Added: 2.50	Units: uL

Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X08.D

Injection Date: 01-May-2023 17:31:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: IC STD25 Sm

Worklist Smp#: 9

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

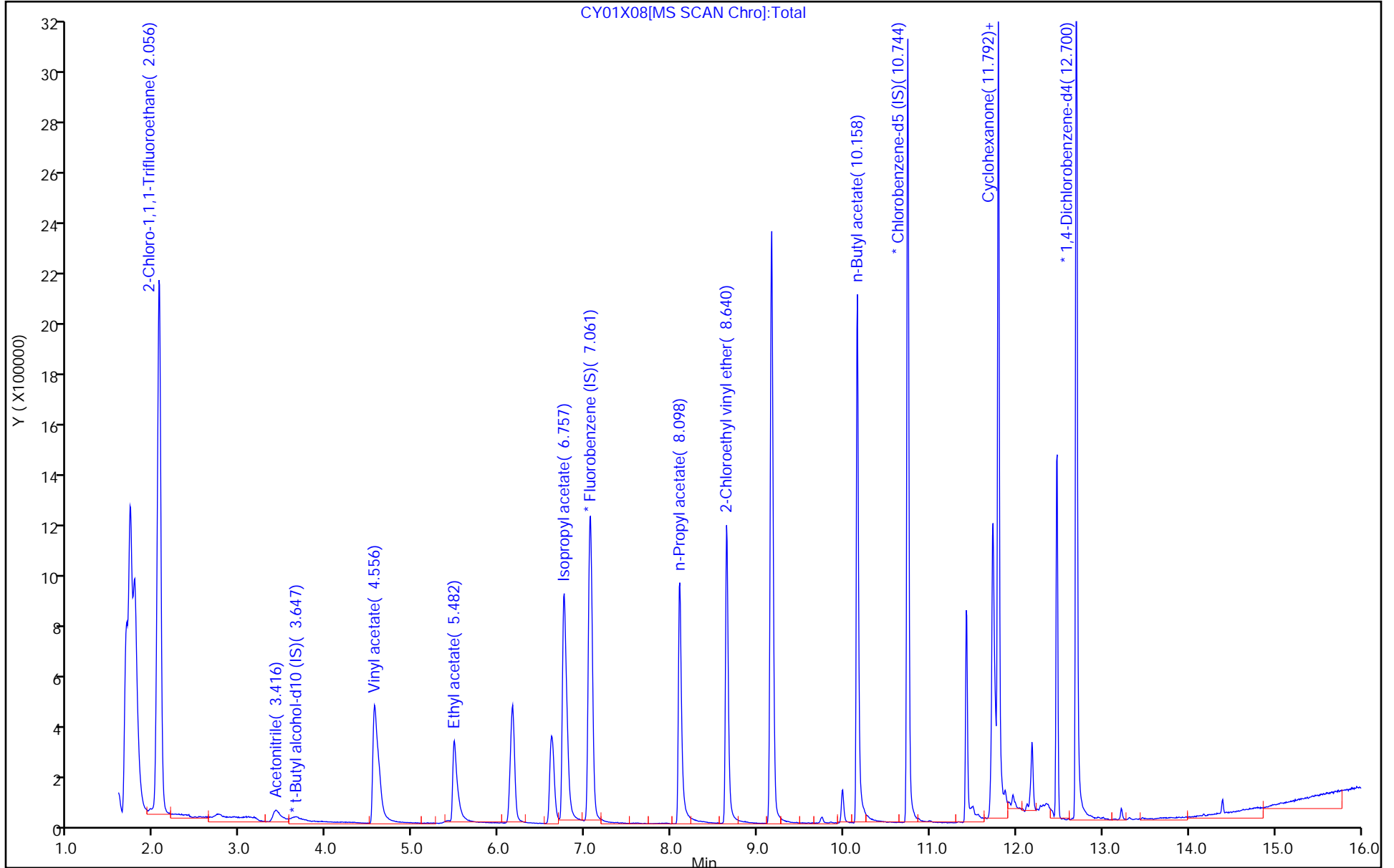
ALS Bottle#: 8

Method: MSV_10193_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

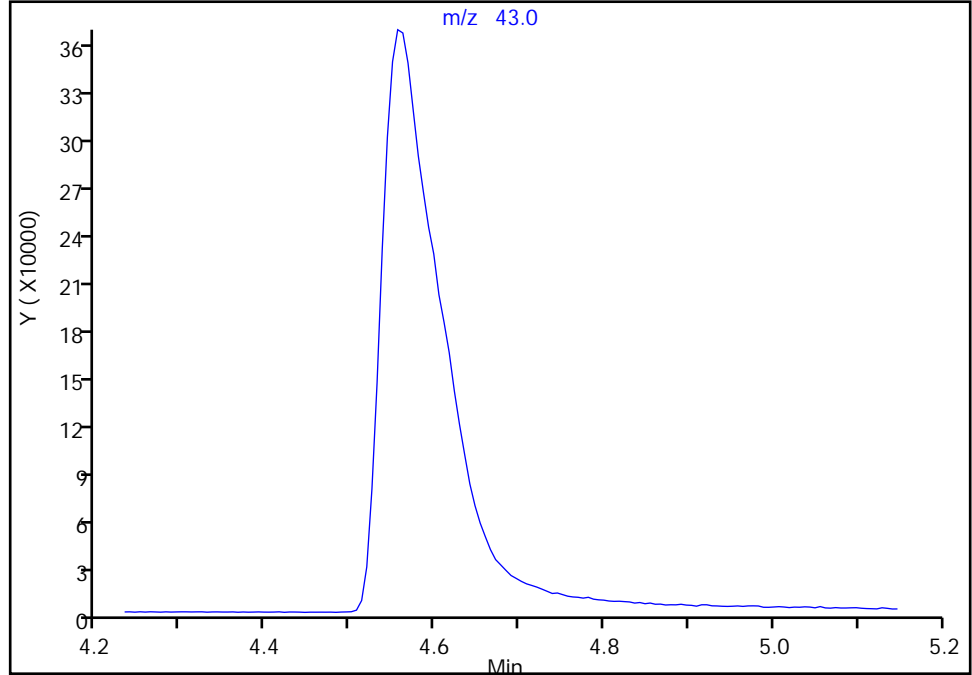
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X08.D
Injection Date: 01-May-2023 17:31:30 Instrument ID: 10193
Lims ID: IC STD25 Sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

38 Vinyl acetate, CAS: 108-05-4

Signal: 1

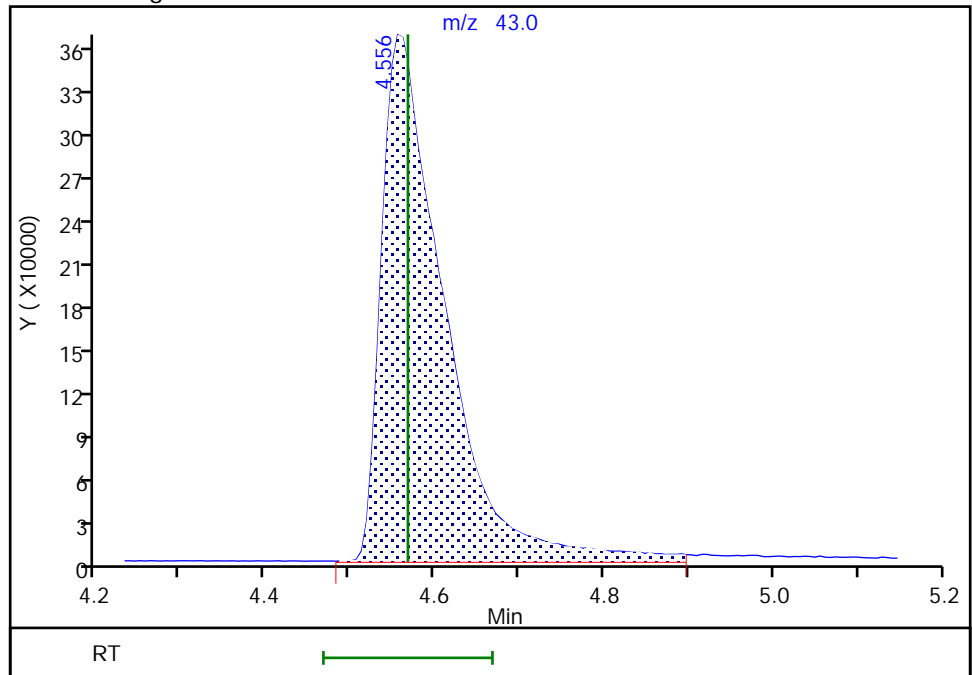
Not Detected
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.56
Area: 1876371
Amount: 25.318926
Amount Units: ug/l



Reviewer: DVW2, 02-May-2023 07:51:33 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

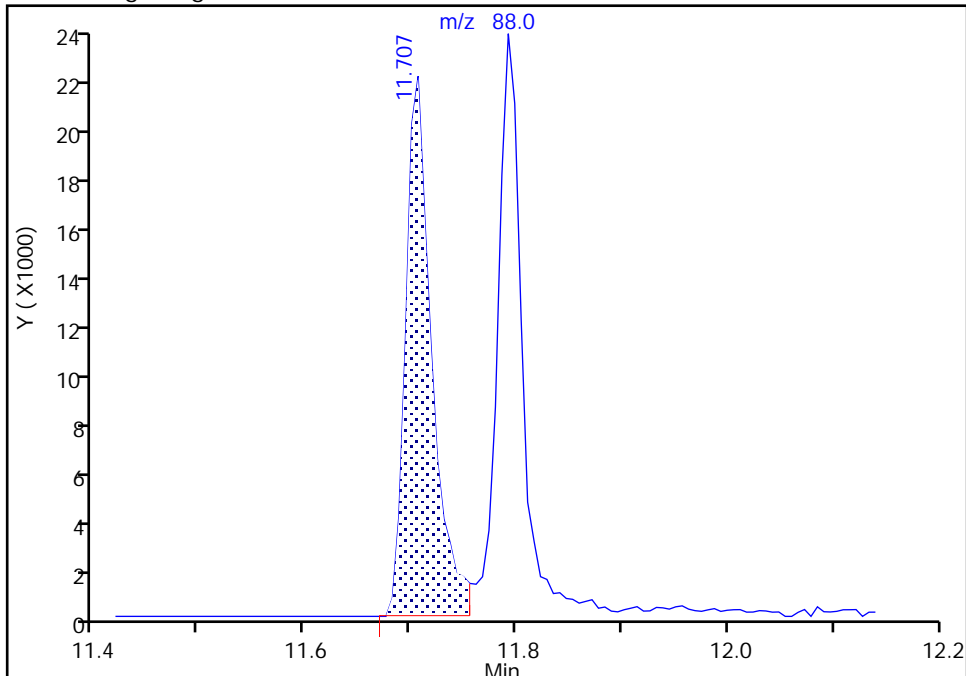
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X08.D
Injection Date: 01-May-2023 17:31:30 Instrument ID: 10193
Lims ID: IC STD25 Sm
Client ID:
Operator ID: knk41612 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

122 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

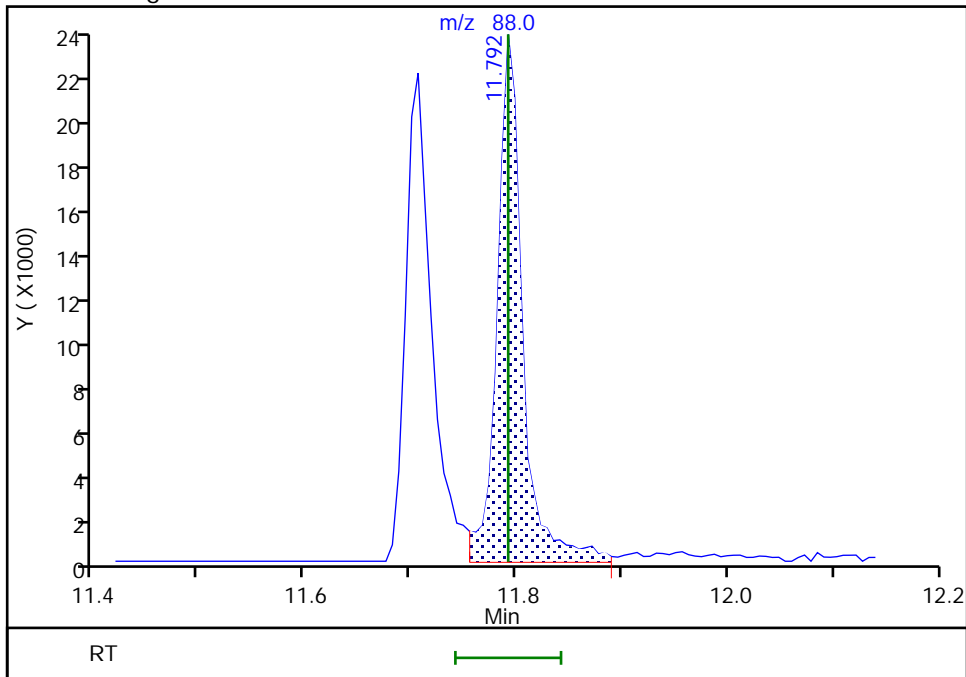
RT: 11.71
Area: 37865
Amount: 1.706663
Amount Units: ug/l

Processing Integration Results



RT: 11.79
Area: 39512
Amount: 1.840174
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 07:52:00 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Calibration

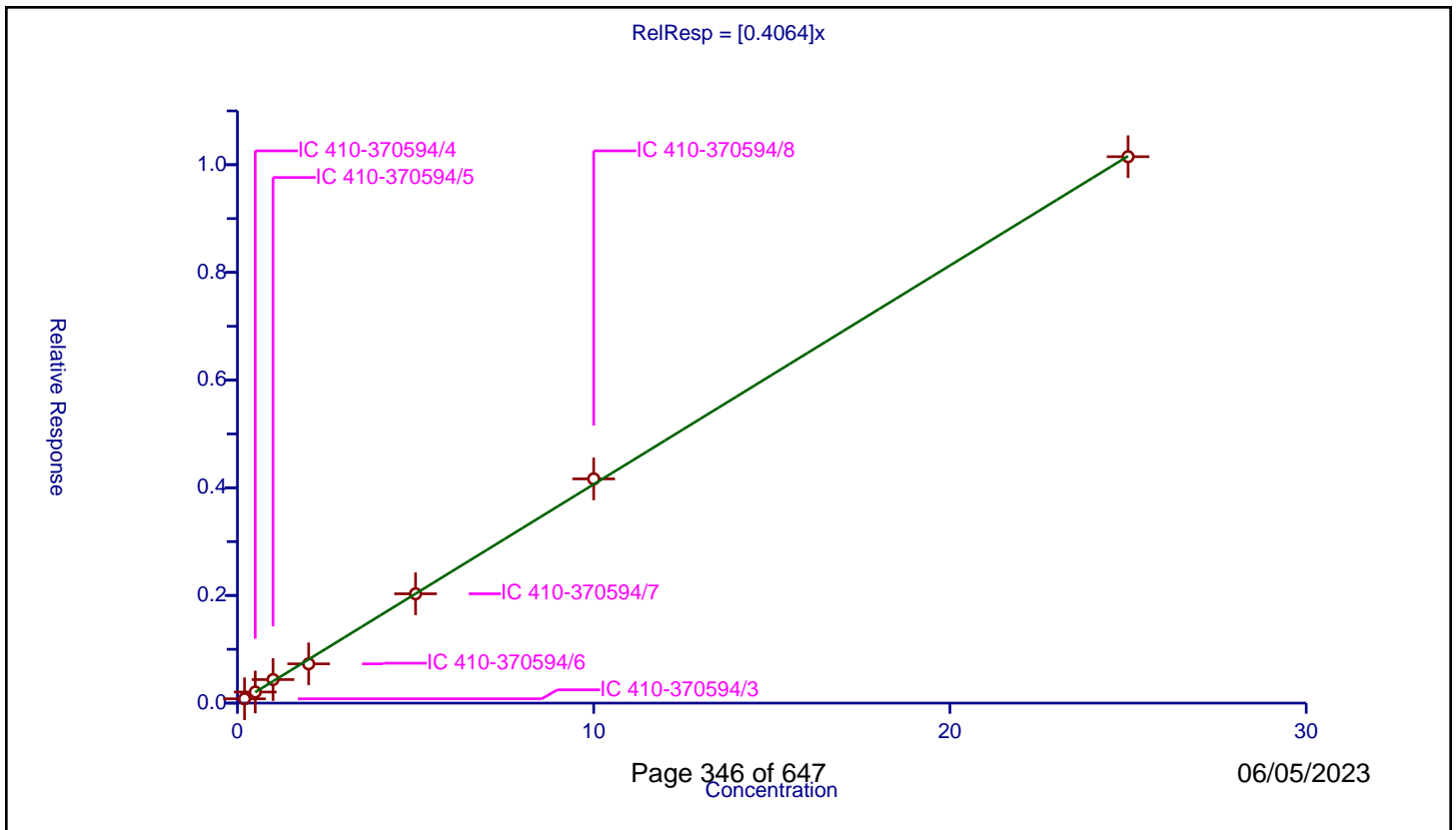
/ Chlorodifluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4064

Error Coefficients	
Standard Error:	915000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/3	0.2	0.080334	10.0	2084055.0	0.401669	Y
2	IC 410-370594/4	0.5	0.206122	10.0	2036946.0	0.412245	Y
3	IC 410-370594/5	1.0	0.437547	10.0	2024630.0	0.437547	Y
4	IC 410-370594/6	2.0	0.729469	10.0	2002456.0	0.364735	Y
5	IC 410-370594/7	5.0	2.03074	10.0	1973684.0	0.406148	Y
6	IC 410-370594/8	10.0	4.16506	10.0	1959585.0	0.416506	Y
7	IC 410-370594/9	25.0	10.149332	10.0	2010350.0	0.405973	Y



Calibration

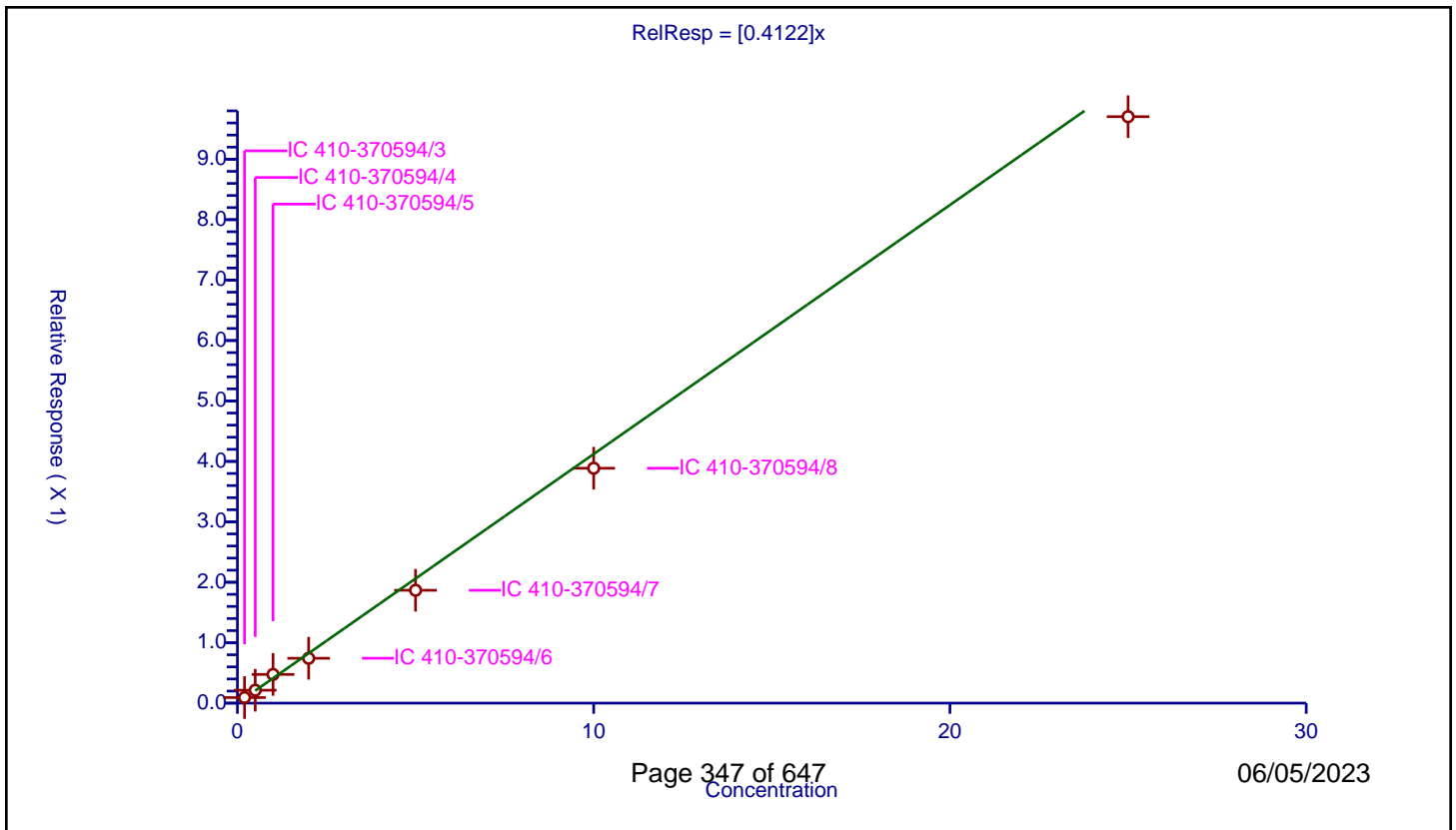
/ Dimethyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4122

Error Coefficients	
Standard Error:	871000
Relative Standard Error:	10.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/3	0.2	0.092267	10.0	2084055.0	0.461336	Y
2	IC 410-370594/4	0.5	0.213604	10.0	2036946.0	0.427208	Y
3	IC 410-370594/5	1.0	0.475065	10.0	2024630.0	0.475065	Y
4	IC 410-370594/6	2.0	0.742298	10.0	2002456.0	0.371149	Y
5	IC 410-370594/7	5.0	1.867467	10.0	1973684.0	0.373493	Y
6	IC 410-370594/8	10.0	3.886848	10.0	1959585.0	0.388685	Y
7	IC 410-370594/9	25.0	9.704141	10.0	2010350.0	0.388166	Y



Calibration

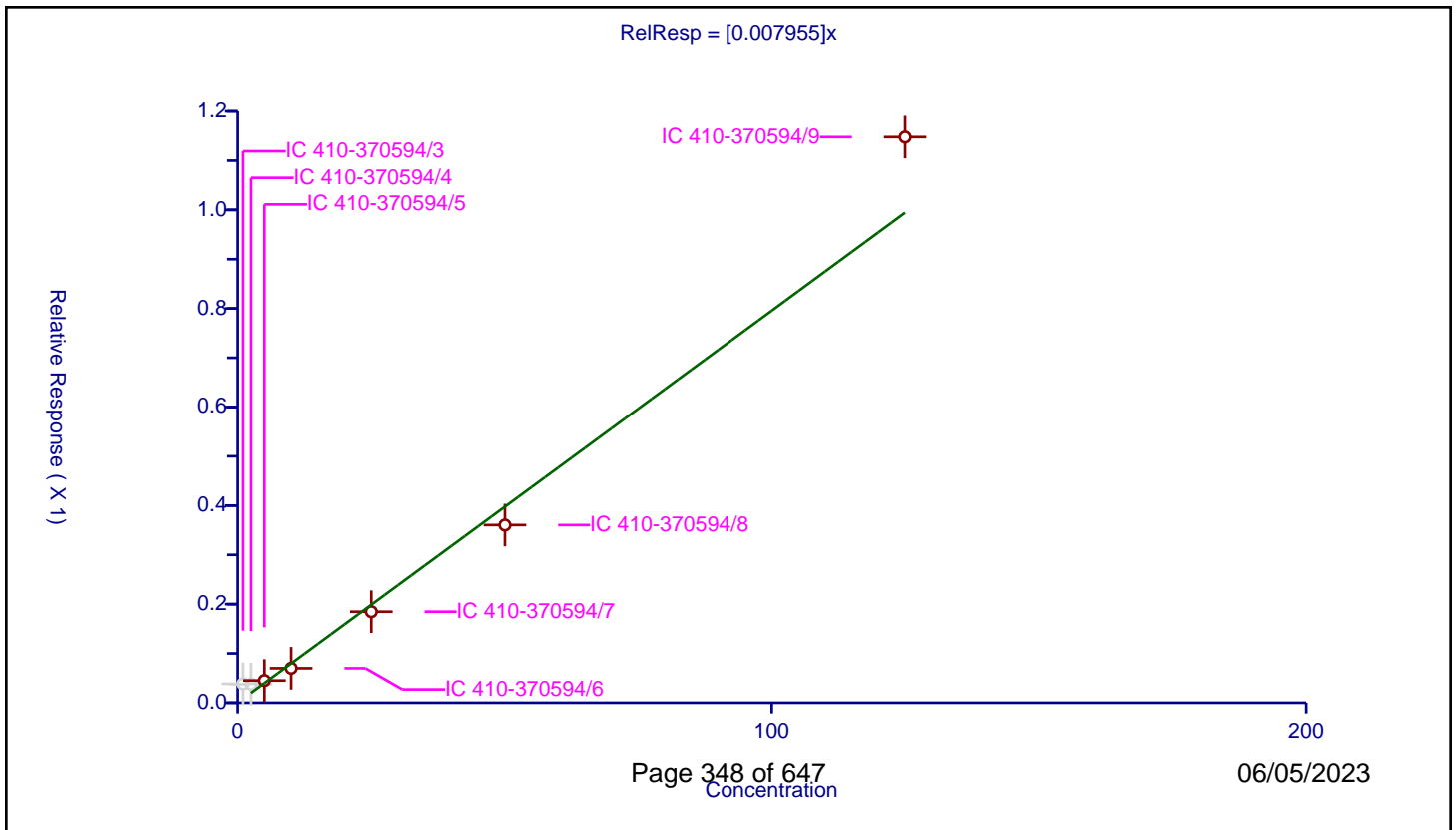
/ Acetonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.007955

Error Coefficients	
Standard Error:	122000
Relative Standard Error:	13.2
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/3	1.0	0.03842	10.0	2084055.0	0.03842	N
2	IC 410-370594/4	2.5	0.037541	10.0	2036946.0	0.015017	N
3	IC 410-370594/5	5.0	0.045021	10.0	2024630.0	0.009004	Y
4	IC 410-370594/6	10.0	0.069909	10.0	2002456.0	0.006991	Y
5	IC 410-370594/7	25.0	0.184705	10.0	1973684.0	0.007388	Y
6	IC 410-370594/8	50.0	0.3605	10.0	1959585.0	0.00721	Y
7	IC 410-370594/9	125.0	1.14779	10.0	2010350.0	0.009182	Y



Calibration

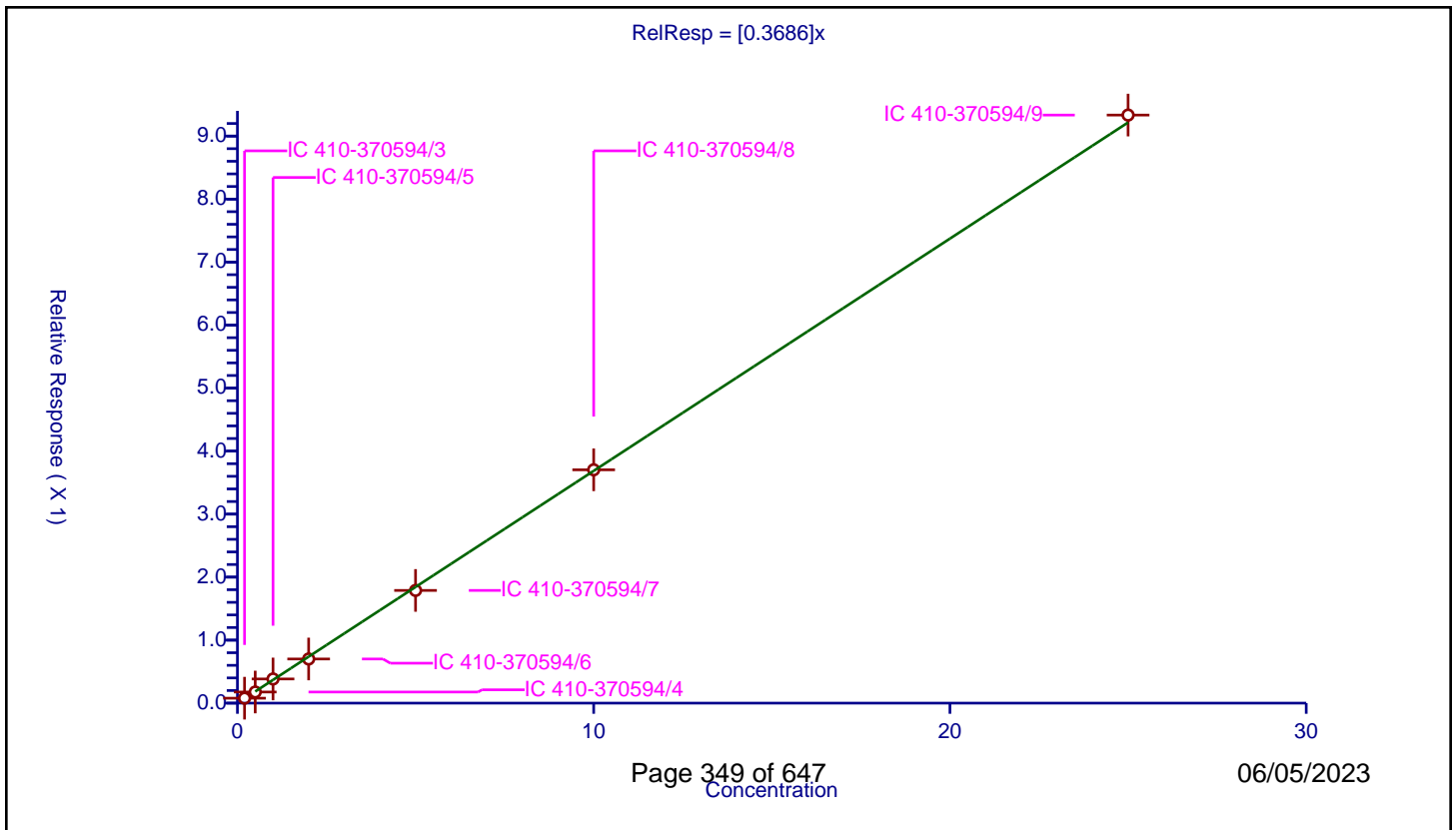
/ Vinyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3686

Error Coefficients	
Standard Error:	837000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/3	0.2	0.078338	10.0	2084055.0	0.391688	Y
2	IC 410-370594/4	0.5	0.176568	10.0	2036946.0	0.353137	Y
3	IC 410-370594/5	1.0	0.383818	10.0	2024630.0	0.383818	Y
4	IC 410-370594/6	2.0	0.700869	10.0	2002456.0	0.350435	Y
5	IC 410-370594/7	5.0	1.788584	10.0	1973684.0	0.357717	Y
6	IC 410-370594/8	10.0	3.703391	10.0	1959585.0	0.370339	Y
7	IC 410-370594/9	25.0	9.333554	10.0	2010350.0	0.373342	Y



Calibration

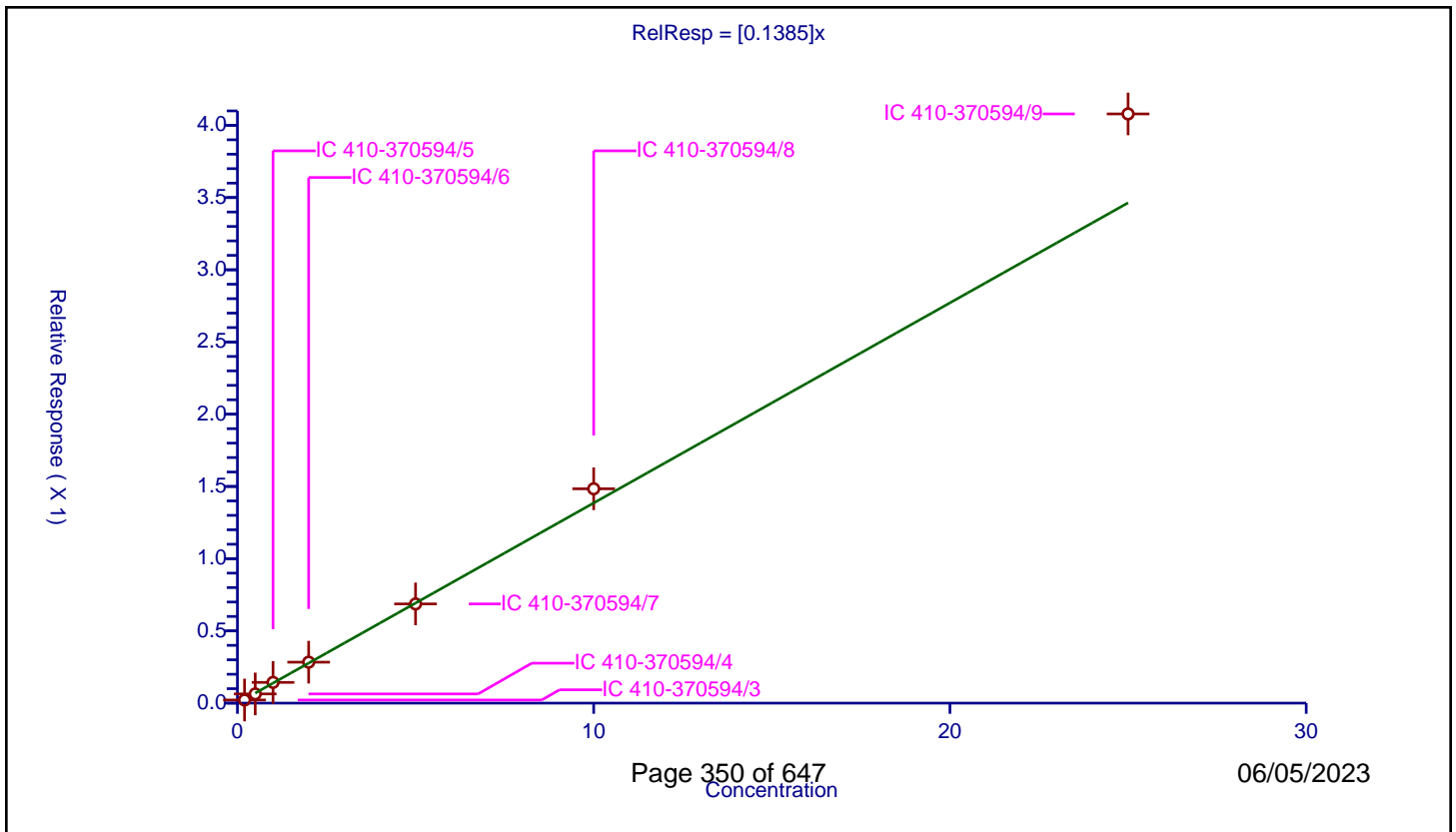
/ Ethyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1385

Error Coefficients	
Standard Error:	360000
Relative Standard Error:	12.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/3	0.2	0.02166	10.0	2084055.0	0.108298	Y
2	IC 410-370594/4	0.5	0.063688	10.0	2036946.0	0.127377	Y
3	IC 410-370594/5	1.0	0.143542	10.0	2024630.0	0.143542	Y
4	IC 410-370594/6	2.0	0.283482	10.0	2002456.0	0.141741	Y
5	IC 410-370594/7	5.0	0.68667	10.0	1973684.0	0.137334	Y
6	IC 410-370594/8	10.0	1.483875	10.0	1959585.0	0.148388	Y
7	IC 410-370594/9	25.0	4.078991	10.0	2010350.0	0.16316	Y



Calibration

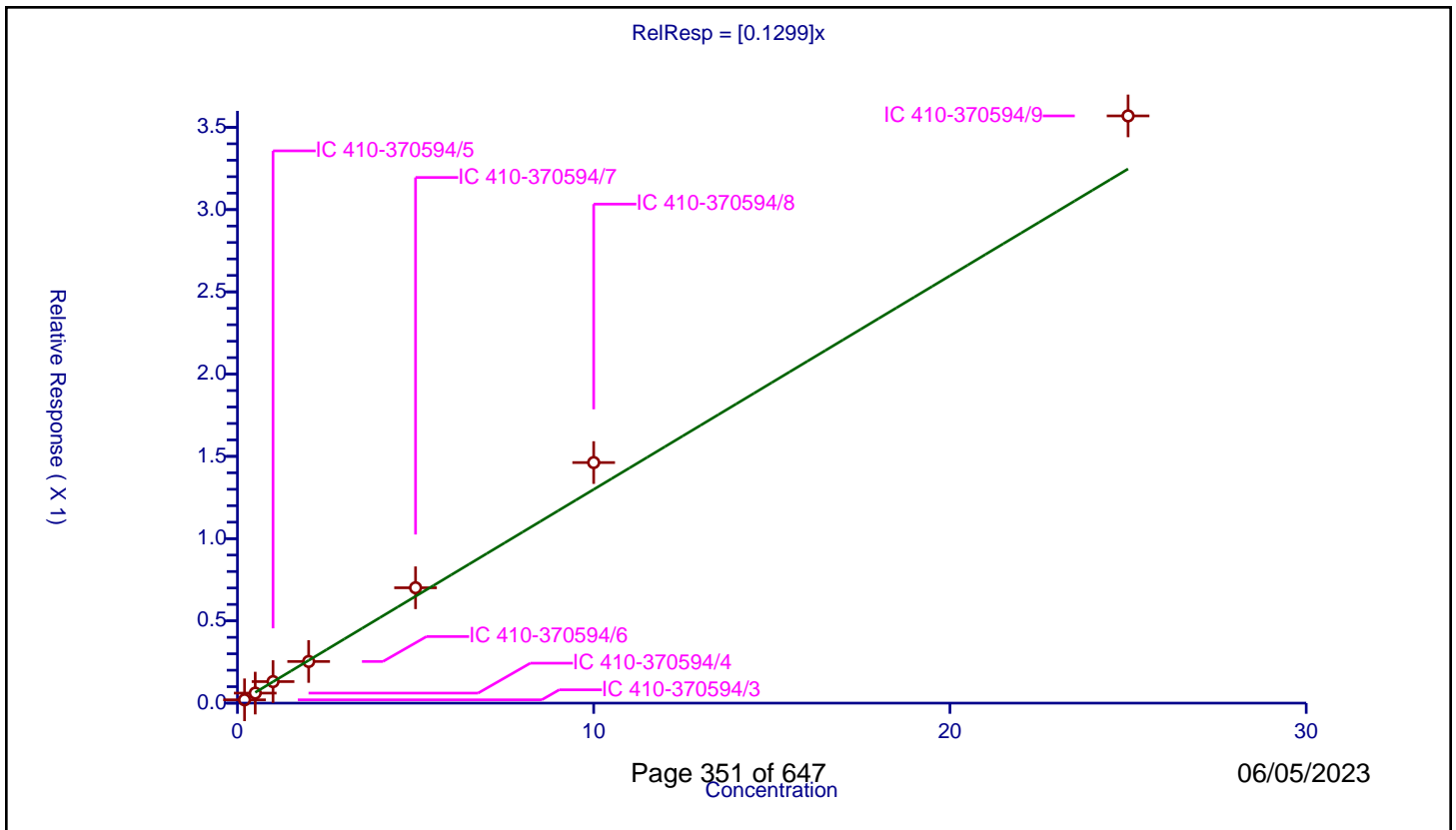
/ 2-Chloroethyl vinyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1299

Error Coefficients	
Standard Error:	321000
Relative Standard Error:	12.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/3	0.2	0.020105	10.0	2084055.0	0.100525	Y
2	IC 410-370594/4	0.5	0.061023	10.0	2036946.0	0.122045	Y
3	IC 410-370594/5	1.0	0.130883	10.0	2024630.0	0.130883	Y
4	IC 410-370594/6	2.0	0.253064	10.0	2002456.0	0.126532	Y
5	IC 410-370594/7	5.0	0.701323	10.0	1973684.0	0.140265	Y
6	IC 410-370594/8	10.0	1.46233	10.0	1959585.0	0.146233	Y
7	IC 410-370594/9	25.0	3.569508	10.0	2010350.0	0.14278	Y



Calibration

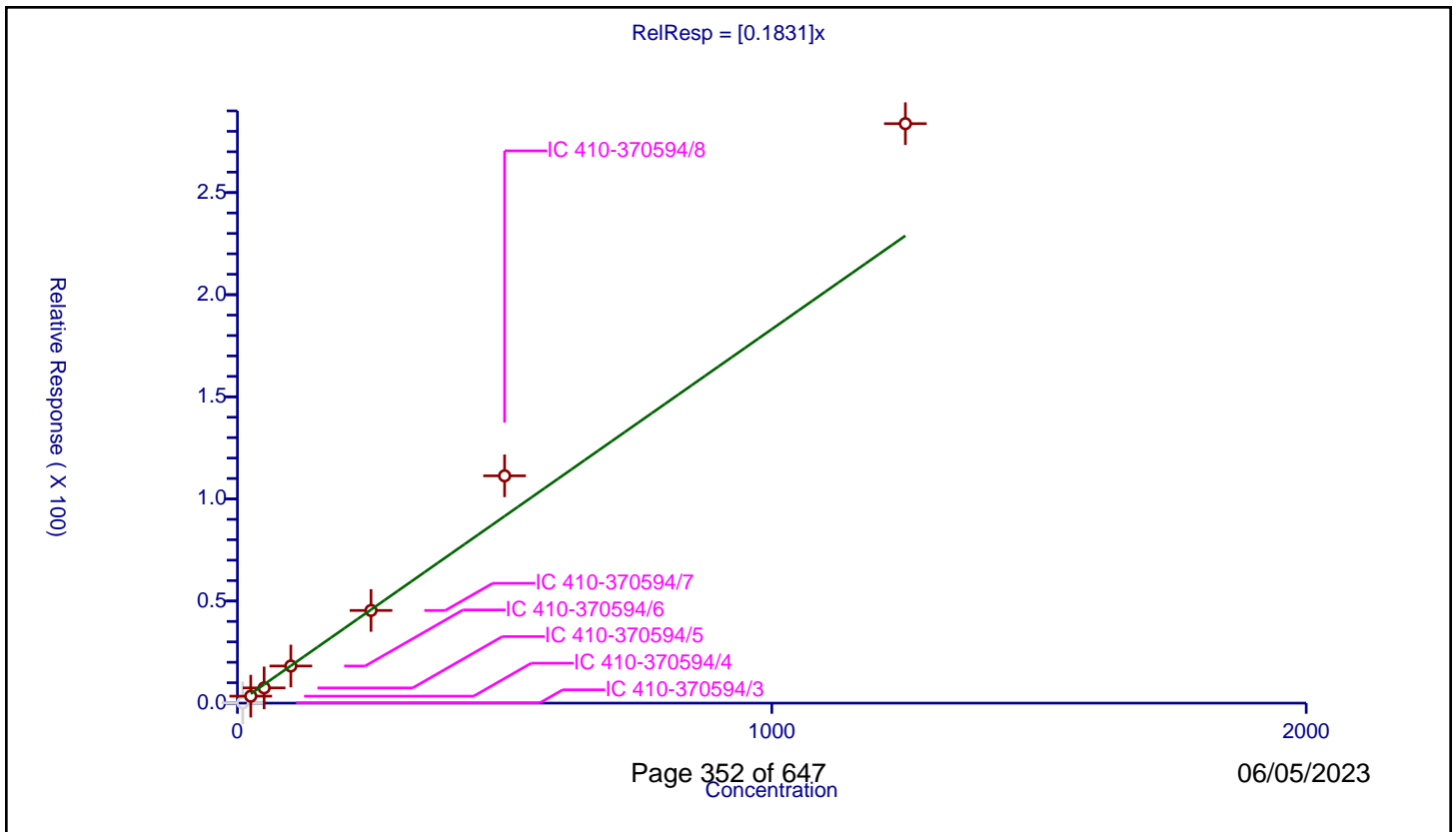
/ Cyclohexanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1831

Error Coefficients	
Standard Error:	343000
Relative Standard Error:	20.2
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.953

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/3	9.9996	0.152492	50.0	182960.0	0.01525	N
2	IC 410-370594/4	24.999	3.414656	50.0	154364.0	0.136592	Y
3	IC 410-370594/5	49.998	7.457633	50.0	107514.0	0.149159	Y
4	IC 410-370594/6	99.996	18.174707	50.0	120167.0	0.181754	Y
5	IC 410-370594/7	249.99	45.374549	50.0	94834.0	0.181505	Y
6	IC 410-370594/8	499.98	111.29741	50.0	106281.0	0.222604	Y
7	IC 410-370594/9	1249.95	283.740265	50.0	127499.0	0.227001	Y



Calibration

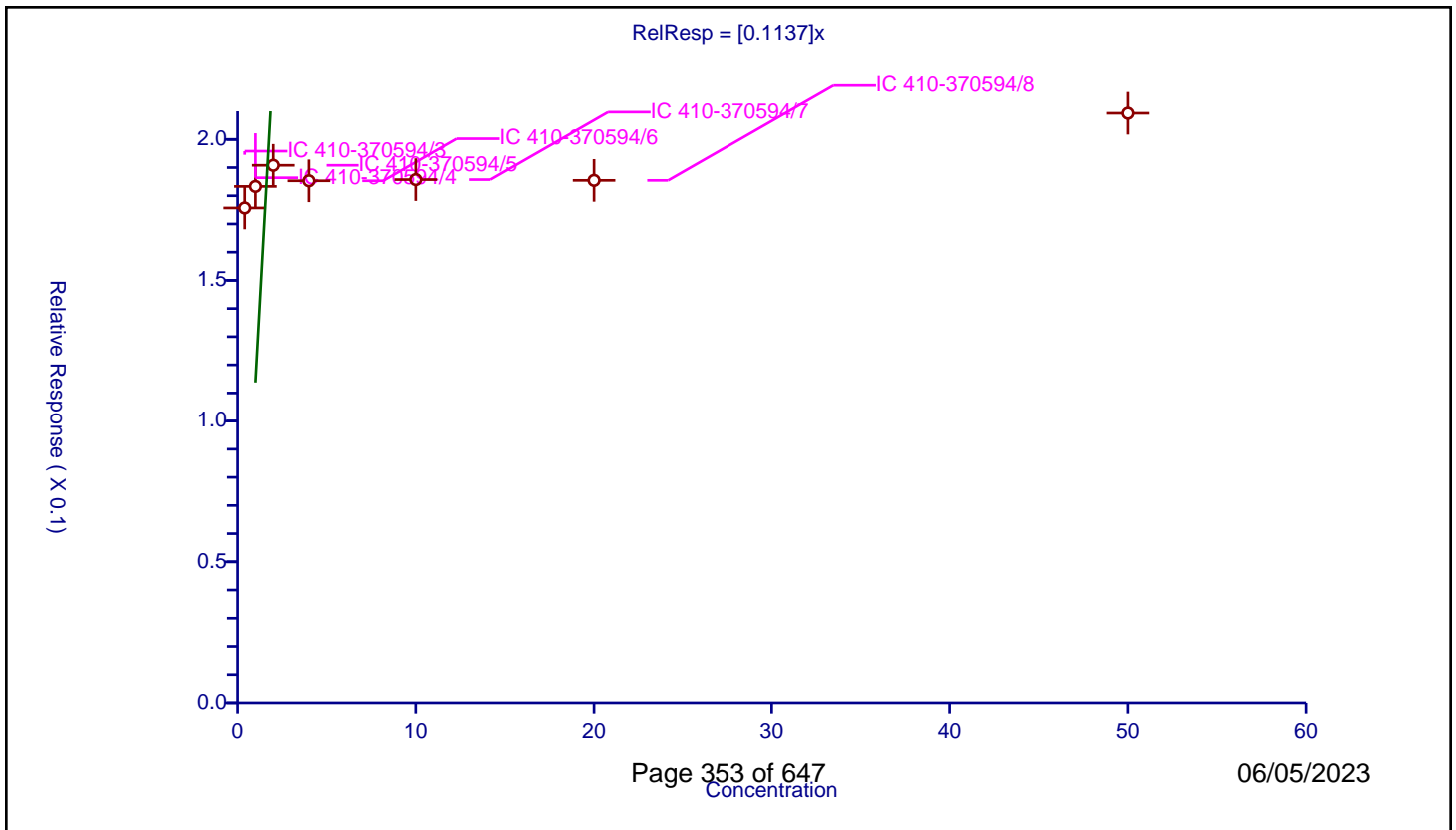
/ cis-1,4-Dichloro-2-butene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1137

Error Coefficients	
Standard Error:	38700
Relative Standard Error:	137.9
Correlation Coefficient:	0.579
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/3	0.400029	0.175669	10.0	1980144.0	0.43914	Y
2	IC 410-370594/4	1.000073	0.183312	10.0	1932170.0	0.183299	Y
3	IC 410-370594/5	2.000147	0.190814	10.0	1912067.0	0.0954	Y
4	IC 410-370594/6	4.000293	0.185306	10.0	1902638.0	0.046323	Y
5	IC 410-370594/7	10.000734	0.185732	10.0	1868174.0	0.018572	Y
6	IC 410-370594/8	20.001467	0.185454	10.0	1854042.0	0.009272	Y
7	IC 410-370594/9	50.003668	0.209304	10.0	1887776.0	0.004186	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1 Analy Batch No.: 370594
 Environment Testing, LLC

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 19:00 Calibration End Date: 05/01/2023 21:14 Calibration ID: 49717

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-370594/13	CY01X12.D
Level 2	IC 410-370594/14	CY01X13.D
Level 3	IC 410-370594/15	CY01X14.D
Level 4	IC 410-370594/16	CY01X15.D
Level 5	IC 410-370594/17	CY01X16.D
Level 6	ICIS 410-370594/18	CY01X17.D
Level 7	IC 410-370594/19	CY01X18.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	0.3951 0.3708	0.3628 0.3655	0.3846	0.3687	0.3744	Ave	0.374 6			0.1000	3.1		20.0				
Chloromethane	0.4674 0.4283	0.4732 0.4069	0.4407	0.4162	0.4427	Ave	0.439 4			0.1000	5.6		20.0				
Vinyl chloride	0.4411 0.4119	0.4355 0.3955	0.4204	0.4069	0.4286	Ave	0.420 0			0.1000	3.9		20.0				
1,3-Butadiene	0.4431 0.3707	0.4055 0.3626	0.3977	0.3890	0.3640	Ave	0.390 4				7.3		20.0				
Bromomethane	0.3314 0.2718	0.3002 0.2566	0.2728	0.2852	0.2849	Ave	0.286 2			0.1000	8.4		20.0				
Chloroethane	0.2698 0.2366	0.2658 0.2257	0.2469	0.2396	0.2431	Ave	0.246 8			0.1000	6.4		20.0				
Dichlorofluoromethane	0.6100 0.5656	0.6221 0.5456	0.5738	0.5719	0.5833	Ave	0.581 7			0.1000	4.5		20.0				
Trichlorofluoromethane	0.4967 0.4982	0.5044 0.4880	0.5096	0.5145	0.5085	Ave	0.502 8			0.1000	1.8		20.0				
Ethyl ether	0.2785 0.2555	0.2684 0.2505	0.2585	0.2540	0.2522	Ave	0.259 7				3.9		20.0				
Freon 123a	0.4022 0.3447	0.3631 0.3353	0.3559	0.3466	0.3520	Ave	0.357 1				6.1		20.0				
Acrolein	1.9877 2.1303	2.1637 2.0556	2.0989	2.0693	2.1586	Ave	2.094 9				3.0		20.0				
1,1-Dichloroethene	0.2740 0.2496	0.2654 0.2506	0.2565	0.2188	0.2561	Ave	0.253 0			0.1000	6.9		20.0				
Acetone	++++ 2.2314	2.8062 2.1872	2.4358	2.3027	2.3321	Ave	2.382 6			0.1000	9.4		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

Analy Batch No.: 370594

SDG No.:

Instrument ID: 10193

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

Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 19:00

Calibration End Date: 05/01/2023 21:14

Calibration ID: 49717

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	0.2729 0.2556	0.2525 0.2597	0.2730	0.2241	0.2606	Ave		0.256 9		0.1000	6.4		20.0				
Methyl iodide	0.5479 0.5363	0.5466 0.5207	0.5408	0.4587	0.5464	Ave		0.528 2			6.1		20.0				
Carbon disulfide	0.8809 0.9083	0.8999 0.9129	0.9155	0.7478	0.8937	Ave		0.879 8		0.1000	6.8		20.0				
Methyl acetate	7.3809 7.1008	10.335 7.2102	7.1630	7.4672	6.8343	Ave		7.641 6		0.1000	15.8		20.0				
Allyl chloride	0.4635 0.4617	0.4510 0.4763	0.4644	0.3941	0.4690	Ave		0.454 3			6.1		20.0				
Methylene Chloride	0.3013 0.3022	0.3214 0.3092	0.3097	0.2690	0.3081	Ave		0.303 n		0.1000	5.4		20.0				
t-Butyl alcohol	1.0542 0.9166	1.0535 0.8689	0.9557	0.9596	0.9021	Ave		0.958 7			7.5		20.0				
Acrylonitrile	4.0808 3.2202	3.7653 3.2295	3.5989	3.0385	3.2313	Ave		3.452 1			10.8		20.0				
Methyl tert-butyl ether	0.9028 0.8719	0.9097 0.8702	0.8872	0.8082	0.8746	Ave		0.874 9		0.1000	3.8		20.0				
trans-1,2-Dichloroethene	0.3358 0.3110	0.3053 0.3169	0.3169	0.2647	0.3152	Ave		0.309 4		0.1000	7.1		20.0				
n-Hexane	0.3973 0.3978	0.3868 0.4210	0.4217	0.3267	0.3987	Ave		0.392 8			8.1		20.0				
1,1-Dichloroethane	0.5699 0.5650	0.5777 0.5758	0.5648	0.4900	0.5759	Ave		0.559 9		0.2000	5.6		20.0				
di-Isopropyl ether	1.0301 1.0280	1.0386 1.0497	1.0293	0.9144	1.0299	Ave		1.017 1			4.5		20.0				
2-Chloro-1,3-butadiene	0.4453 0.4724	0.4504 0.4897	0.4596	0.3877	0.4727	Ave		0.454 n			7.2		20.0				
Ethyl t-butyl ether	1.0234 1.0343	1.0619 1.0436	1.0310	0.9421	1.0371	Ave		1.024 8			3.7		20.0				
2-Butanone (MEK)	4.4135 4.8522	4.8692 4.7427	4.5275	4.7063	4.9476	Ave		4.722 7		0.1000	4.1		20.0				
2,2-Dichloropropane	0.5325 0.4745	0.5832 0.4821	0.4981	0.4094	0.4899	Ave		0.495 7			10.8		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

Analy Batch No.: 370594

SDG No.:

Instrument ID: 10193

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

Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 19:00

Calibration End Date: 05/01/2023 21:14

Calibration ID: 49717

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	0.3298 0.3428	0.3540 0.3510	0.3450	0.2953	0.3494	Ave		0.338 2		0.1000	6.1		20.0				
Propionitrile	0.7619 1.1087	1.0629 1.1528	1.0517	0.9701	1.1146	Ave		1.031 8			12.8		20.0				
Methacrylonitrile	4.5225 5.3718	4.8198 5.2766	5.0928	4.9834	5.4033	Ave		5.067 2			6.3		20.0				
Bromochloromethane	0.1479 0.1598	0.1647 0.1612	0.1625	0.1423	0.1636	Ave		0.157 5			5.5		20.0				
Tetrahydrofuran	1.8440 1.4051	1.4882 1.3904	1.4934	1.4940	1.4532	Ave		1.509 8			10.2		20.0				
Chloroform	0.5631 0.5647	0.5732 0.5751	0.5774	0.4946	0.5722	Ave		0.560 n		0.2000	5.2		20.0				
1,1,1-Trichloroethane	0.5166 0.4912	0.5199 0.4991	0.5019	0.4266	0.5012	Ave		0.493 8		0.1000	6.3		20.0				
Cyclohexane	0.5218 0.5074	0.4875 0.5299	0.5404	0.4199	0.5048	Ave		0.501 7		0.1000	8.0		20.0				
Carbon tetrachloride	0.4120 0.4347	0.4240 0.4456	0.4338	0.3692	0.4394	Ave		0.422 7		0.1000	6.1		20.0				
1,1-Dichloropropene	0.4176 0.4249	0.4203 0.4414	0.4295	0.3623	0.4325	Ave		0.418 4			6.2		20.0				
Isobutyl alcohol	++++ 0.2825	0.1853 0.2840	0.1968	0.2378	0.2663	Ave		0.242 1			17.8		20.0				
Benzene	1.2842 1.2923	1.3182 1.3221	1.2932	1.1165	1.3194	Ave		1.278 n		0.5000	5.7		20.0				
1,2-Dichloroethane	0.4101 0.3518	0.3988 0.3651	0.3766	0.3106	0.3709	Ave		0.369 1		0.1000	8.8		20.0				
t-Amyl methyl ether	0.9399 0.9541	0.9811 0.9642	0.9559	0.8624	0.9620	Ave		0.945 7			4.1		20.0				
n-Heptane	0.3946 0.4313	0.3915 0.4529	0.4385	0.3449	0.4205	Ave		0.410 6			8.9		20.0				
Trichloroethene	0.3339 0.3475	0.3488 0.3534	0.3459	0.2916	0.3511	Ave		0.338 9		0.2000	6.4		20.0				
n-Butanol	++++ 0.2469	0.0841 0.2565	0.1218	0.1496	0.2136	Lin1	-10.5 6	0.256 n						0.9960		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
Environment Testing, LLC

Job No.: 410-127761-1

Analy Batch No.: 370594

SDG No.:

Instrument ID: 10193

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

Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 19:00

Calibration End Date: 05/01/2023 21:14

Calibration ID: 49717

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								
Methylcyclohexane	0.5420 0.5613	0.5110 0.5835	0.5835	0.4638	0.5598	Ave		0.543 6		0.1000	7.9		20.0				
1,2-Dichloropropane	0.3396 0.3430	0.3327 0.3514	0.3408	0.2954	0.3449	Ave		0.335 4		0.1000	5.5		20.0				
Dibromomethane	0.1710 0.1689	0.1680 0.1678	0.1636	0.1533	0.1679	Ave		0.165 8			3.6		20.0				
Methyl methacrylate	9.6704 10.560	9.0230 10.778	9.4566	9.4759	10.752	Ave		9.959 3			7.2		20.0				
1,4-Dioxane	++++ 0.0585	0.0385 0.0544	0.0512	0.0545	0.0607	Ave		0.053 0		0.0050	14.8		20.0				
Bromodichloromethane	0.4326 0.4347	0.4191 0.4417	0.4238	0.3742	0.4370	Ave		0.423 3		0.2000	5.4		20.0				
2-Nitropropane	2.9597 3.2652	3.1228 3.2730	3.0607	3.2028	3.3978	Ave		3.183 1			4.6		20.0				
cis-1,3-Dichloropropene	0.4697 0.5562	0.5043 0.5681	0.5202	0.4676	0.5491	Ave		0.519 3		0.2000	7.9		20.0				
4-Methyl-2-pentanone (MIBK)	11.810 13.706	12.718 13.633	12.936	12.986	13.820	Ave		13.08 7		0.1000	5.4		20.0				
Toluene	0.9272 0.9348	0.9487 0.9545	0.9276	0.8126	0.9415	Ave		0.921 0		0.4000	5.3		20.0				
trans-1,3-Dichloropropene	0.3956 0.5129	0.4212 0.5325	0.4366	0.4243	0.5012	Ave		0.460 6		0.1000	11.6		20.0				
Ethyl methacrylate	0.3422 0.4102	0.3502 0.4193	0.3444	0.3492	0.3946	Ave		0.372 9			9.1		20.0				
1,1,2-Trichloroethane	0.3100 0.2711	0.2818 0.2722	0.2586	0.2519	0.2719	Ave		0.273 9		0.1000	6.8		20.0				
Tetrachloroethene	0.4333 0.4369	0.4486 0.4448	0.4433	0.3863	0.4507	Ave		0.434 8		0.2000	5.1		20.0				
1,3-Dichloropropane	0.4204 0.4583	0.4357 0.4640	0.4393	0.4160	0.4546	Ave		0.441 2			4.2		20.0				
2-Hexanone	5.7502 9.7730	7.5649 9.7906	8.2606	8.9787	9.6023	Ave		8.531 5		0.1000	17.4		20.0				
Dibromochloromethane	0.3299 0.3589	0.3345 0.3710	0.3404	0.3161	0.3629	Ave		0.344 8			5.8		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

Analy Batch No.: 370594

SDG No.:

Instrument ID: 10193

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

Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 19:00

Calibration End Date: 05/01/2023 21:14

Calibration ID: 49717

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dibromoethane (EDB)	0.2506 0.2672	0.2615 0.2717	0.2502	0.2360	0.2679	Ave		0.257 9		0.1000	5.0		20.0				
1-Chlorohexane	0.6221 0.5142	0.5196 0.5298	0.5279	0.4442	0.5193	Ave		0.525 3			9.9		20.0				
Chlorobenzene	1.0885 1.1165	1.1291 1.1228	1.1038	0.9801	1.1316	Ave		1.096 1		0.5000	4.9		20.0				
1,1,1,2-Tetrachloroethane	0.3757 0.3912	0.3781 0.3967	0.3865	0.3450	0.3926	Ave		0.380 8			4.6		20.0				
Ethylbenzene	1.6879 1.8458	1.8024 1.8881	1.7749	1.5751	1.8636	Ave		1.776 9		0.1000	6.2		20.0				
m&p-Xylene	0.7119 0.7444	0.7253 0.7483	0.7192	0.6378	0.7474	Ave		0.719 2		0.1000	5.4		20.0				
o-Xylene	0.6935 0.7323	0.7349 0.7392	0.7049	0.6357	0.7463	Ave		0.712 4		0.3000	5.5		20.0				
Styrene	1.0621 1.2368	1.1510 1.2604	1.1364	1.0497	1.2478	Ave		1.163 5		0.3000	7.5		20.0				
Bromoform	0.1911 0.2350	0.2137 0.2401	0.2086	0.2037	0.2310	Ave		0.217 6		0.1000	8.3		20.0				
Isopropylbenzene	1.7850 1.8841	1.8956 1.8745	1.8225	1.6231	1.9154	Ave		1.828 6		0.1000	5.5		20.0				
Bromobenzene	0.7547 0.7897	0.7953 0.7753	0.7721	0.6996	0.8119	Ave		0.771 2			4.7		20.0				
1,1,2,2-Tetrachloroethane	0.5508 0.5689	0.5676 0.5679	0.5391	0.5447	0.5796	Ave		0.559 8		0.3000	2.7		20.0				
trans-1,4-Dichloro-2-butene	0.1037 0.1553	0.1158 0.1551	0.1277	0.1322	0.1510	Ave		0.134 4			15.1		20.0				
1,2,3-Trichloropropane	0.1481 0.1479	0.1444 0.1472	0.1468	0.1466	0.1497	Ave		0.147 2			1.1		20.0				
N-Propylbenzene	3.3838 3.6113	3.4634 3.4980	3.5123	2.9535	3.6188	Ave		3.434 5			6.6		20.0				
2-Chlorotoluene	0.7366 0.7608	0.7726 0.7568	0.7294	0.6595	0.7784	Ave		0.742 0			5.5		20.0				
1,3,5-Trimethylbenzene	2.4643 2.6754	2.6522 2.6513	2.5814	2.2773	2.7266	Ave		2.575 5			6.1		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
Environment Testing, LLC

Job No.: 410-127761-1

Analy Batch No.: 370594

SDG No.:

Instrument ID: 10193

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

Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 19:00

Calibration End Date: 05/01/2023 21:14

Calibration ID: 49717

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								
4-Chlorotoluene	0.7293 0.7945	0.7918 0.7978	0.7316	0.7004	0.8111	Ave		0.765 2			5.7		20.0				
tert-Butylbenzene	0.5748 0.6147	0.6298 0.5798	0.6105	0.4976	0.6341	Ave		0.591 6			8.0		20.0				
Pentachloroethane	0.4380 0.5081	0.4802 0.4936	0.4636	0.4831	0.5139	Ave		0.482 9			5.4		20.0				
1,2,4-Trimethylbenzene	2.5492 2.7931	2.6314 2.7796	2.6475	2.3681	2.8325	Ave		2.657 3			6.1		20.0				
sec-Butylbenzene	3.2085 3.3978	3.2946 3.2835	3.3163	2.8933	3.4521	Ave		3.263 7			5.6		20.0				
1,3-Dichlorobenzene	1.4279 1.5824	1.4791 1.5636	1.4763	1.3614	1.5944	Ave		1.497 9		0.6000	5.8		20.0				
p-Isopropyltoluene	2.8375 3.0468	2.9696 2.9629	2.8914	2.6102	3.1016	Ave		2.917 2			5.5		20.0				
1,4-Dichlorobenzene	1.4274 1.5760	1.4888 1.5306	1.5454	1.3792	1.6111	Ave		1.508 4		0.5000	5.5		20.0				
1,2,3-Trimethylbenzene	1.2489 1.2687	1.2703 1.2510	1.1933	1.0964	1.2909	Ave		1.231 4			5.4		20.0				
Benzyl chloride	0.1693 0.2604	0.1931 0.2678	0.2193	0.2301	0.2543	Ave		0.227 7			16.1		20.0				
n-Butylbenzene	1.1736 1.4674	1.3216 1.4908	1.3421	1.2163	1.4891	Ave		1.357 3			9.6		20.0				
1,2-Dichlorobenzene	1.2357 1.4857	1.4249 1.4569	1.3758	1.2973	1.5092	Ave		1.397 9		0.4000	7.2		20.0				
1,2-Dibromo-3-Chloropropane	0.0628 0.0848	0.0710 0.0878	0.0692	0.0719	0.0813	Ave		0.075 6		0.0500	12.2		20.0				
1,3,5-Trichlorobenzene	1.0712 1.2540	1.1807 1.2337	1.1510	1.0718	1.2639	Ave		1.175 2			6.9		20.0				
1,2,4-Trichlorobenzene	0.7357 1.0044	0.8402 1.0198	0.8585	0.8189	1.0037	Ave		0.897 3		0.2000	12.4		20.0				
Hexachlorobutadiene	0.5551 0.5466	0.5352 0.5332	0.5245	0.4610	0.5432	Ave		0.528 4			5.9		20.0				
Naphthalene	1.2217 1.6190	1.2811 1.6881	1.3449	1.3697	1.5414	Ave		1.438 0			12.4		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1 Analy Batch No.: 370594
 Environment Testing, LLC

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 19:00 Calibration End Date: 05/01/2023 21:14 Calibration ID: 49717

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichlorobenzene	0.5876 0.7881	0.6819 0.8154	0.6730	0.6523	0.7717	Ave		0.710 0			11.7		20.0				
Dibromofluoromethane (Surr)	0.2599 0.2602	0.2603 0.2572	0.2632	0.2593	0.2629	Ave		0.260 4			0.8		20.0				
1,2-Dichloroethane-d4 (Surr)	0.0507 0.0512	0.0516 0.0501	0.0530	0.0525	0.0501	Ave		0.051 3			2.2		20.0				
Toluene-d8 (Surr)	1.1831 1.2014	1.1912 1.2089	1.1856	1.1931	1.1975	Ave		1.194 4			0.8		20.0				
4-Bromofluorobenzene (Surr)	0.5033 0.5176	0.5045 0.5210	0.5017	0.5112	0.5140	Ave		0.510 5			1.5		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Enviro Job No.: 410-127761-1 Analy Batch No.: 370594

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 19:00 Calibration End Date: 05/01/2023 21:14 Calibration ID: 49717

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-370594/13	CY01X12.D
Level 2	IC 410-370594/14	CY01X13.D
Level 3	IC 410-370594/15	CY01X14.D
Level 4	IC 410-370594/16	CY01X15.D
Level 5	IC 410-370594/17	CY01X16.D
Level 6	ICIS 410-370594/18	CY01X17.D
Level 7	IC 410-370594/19	CY01X18.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Dichlorodifluoromethane	FB	Ave	15489 733924	35260 1844486	75329	145079	370847	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	18321 847656	45994 2053703	86308	163798	438521	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	17292 815266	42328 1996257	82343	160114	424476	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	17372 733554	39408 1830187	77891	153088	360495	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	12993 537960	29180 1295233	53433	112242	282213	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	10576 468210	25831 1139267	48356	94287	240755	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	23911 1119352	60460 2753793	112373	225065	577697	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	19470 985985	49023 2462862	99807	202482	503647	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	10919 505712	26090 1264048	50635	99967	249753	0.200 10.00	0.500 25.0	1.000	2.00	5.00
Freon 123a	FB	Ave	15768 682201	35291 1692291	69709	136393	348627	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd 10	Ave	62640 3378019	167950 8476126	330654	642599	1672881	10.0 500	25.0 1250	50.0	100	250
1,1-Dichloroethene	FB	Ave	10742 493944	25797 1264796	50235	86085	253696	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAd 10	Ave	+++++	43563	76743	143007	361471	+++++	5.00	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Enviro Job No.: 410-127761-1 Analy Batch No.: 370594

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 19:00 Calibration End Date: 05/01/2023 21:14 Calibration ID: 49717

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
			707625	1803785				100	250			
Freon 113	FB	Ave	10697 505805	24541 1310879	53477	88189	258104	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl iodide	FB	Ave	21480 1061357	53121 2627805	105913	180504	541150	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon disulfide	FB	Ave	34531 1797605	87456 4607376	179296	294254	885144	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd 10	Ave	4652 225184	16044 594611	22568	46375	105928	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	18170 913691	43835 2403755	90962	155096	464543	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	11811 598119	31232 1560380	60652	105864	305134	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd 10	Ave	13289 581340	32708 1433141	60220	119195	279636	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd 10	Ave	6430 255304	14613 665837	28347	47177	125207	0.500 25.0	1.25 62.5	2.50	5.00	12.5
Methyl tert-butyl ether	FB	Ave	35393 1725441	88410 4392031	173753	318041	866258	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	13163 615390	29673 1599363	62065	104170	312169	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	15574 787272	37594 2124723	82583	128562	394857	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	22342 1118224	56143 2906162	110627	192832	570426	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	40380 2034472	100940 5297680	201601	359828	1020112	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	17456 934857	43776 2471250	90007	152576	468216	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	40120 2046949	103206 5266739	201922	370711	1027162	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone (MEK)	TBAd 10	Ave	27817	75588	142643	292284	766849	2.00	5.00	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Enviro Job No.: 410-127761-1 Analy Batch No.: 370594

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 19:00 Calibration End Date: 05/01/2023 21:14 Calibration ID: 49717

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
			1538747	3911262				100	250			
2,2-Dichloropropane	FB	Ave	20875 938999	56676 2433226	97552	161106	485219	0.200 10.0	0.500 25.0	1.00	2.00	5.00
cis-1,2-Dichloroethene	FB	Ave	12928 678443	34405 1771507	67560	116205	346092	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Propionitrile	TBAd 10	Ave	9604 703206	33000 1901348	66269	120496	345504	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd 10	Ave	28504 1703542	74821 4351557	160456	309492	837484	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	5798 316292	16007 813810	31835	56005	162069	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd 10	Ave	5811 222798	11551 573319	23525	46394	112621	1.00 50.0	2.50 125	5.00	10.0	25.0
Chloroform	FB	Ave	22073 1117567	55713 2902504	113083	194639	566761	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	20253 972172	50532 2519111	98307	167882	496390	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	20454 1004095	47382 2674137	105836	165251	499985	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	16151 860343	41212 2249142	84964	145282	435211	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	16369 840956	40852 2227588	84119	142574	428358	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	TBAd 10	Ave	++++ 447936	14381 1170943	31008	73828	206357	++++ 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	50342 2557558	128118 6672524	253280	439350	1306765	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	16078 696212	38755 1842605	73765	122217	367375	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	36844 1888227	95355 4866379	187225	339385	952816	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	15467	38048	85888	135728	416478	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 Enviro Job No.: 410-127761-1 Analy Batch No.: 370594

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 19:00 Calibration End Date: 05/01/2023 21:14 Calibration ID: 49717

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
			853515	2285705				10.0	25.0			
Trichloroethene	FB	Ave	13090 687744	33901 1783349	67739	114765	347795	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butanol	TBAd 10	Lin1	++++ 685163	11423 1850544	33572	81274	289735	++++ 875	43.8 2188	87.5	175	438
Methylcyclohexane	FB	Ave	21246 1110799	49668 2945100	114284	182524	554423	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	13314 678866	32334 1773636	66746	116253	341576	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromomethane	FB	Ave	6702 334312	16330 847077	32036	60313	166346	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl methacrylate	TBAd 10	Ave	6095 334881	14007 888840	29794	58850	166644	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBAd 10	Ave	++++ 92700	2988 224469	8069	16915	47072	++++ 500	25.0 1250	50.0	100	250
Bromodichloromethane	FB	Ave	16957 860308	40733 2229368	83007	147255	432798	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBAd 10	Ave	9327 517735	24239 1349583	48215	99454	263321	1.00 50.0	2.50 125	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	18411 1100808	49009 2867048	101889	183994	543896	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone (MIBK)	TBAd 10	Ave	74433 4346504	197423 11243259	407566	806524	2142002	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd 5	Ave	34097 1732261	86488 4491756	171834	298097	873512	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd 5	Ave	14546 950369	38401 2506031	80882	155668	464972	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd 5	Ave	12585	31928	63794	128098	366055	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 Enviro Job No.: 410-127761-1 Analy Batch No.: 370594

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 19:00 Calibration End Date: 05/01/2023 21:14 Calibration ID: 49717

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
			760195	1973360				10.0	25.0			
1,1,2-Trichloroethane	CBZd 5	Ave	11398	25687	47902	92415	252235	0.200	0.500	1.00	2.00	5.00
			502445	1280918				10.0	25.0			
Tetrachloroethene	CBZd 5	Ave	15934	40899	82112	141716	418173	0.200	0.500	1.00	2.00	5.00
			809533	2093101				10.0	25.0			
1,3-Dichloropropane	CBZd 5	Ave	15458	39718	81370	152590	421750	0.200	0.500	1.00	2.00	5.00
			849237	2183412				10.0	25.0			
2-Hexanone	TBA 10	Ave	36242	117436	260259	557623	1488305	2.00	5.00	10.0	20.0	50.0
			3099271	8074177				100	250			
Dibromochloromethane	CBZd 5	Ave	12131	30500	63048	115967	336724	0.200	0.500	1.00	2.00	5.00
			665076	1745989				10.0	25.0			
1,2-Dibromoethane (EDB)	CBZd 5	Ave	9215	23841	46346	86581	248551	0.200	0.500	1.00	2.00	5.00
			495106	1278456				10.0	25.0			
1-Chlorohexane	CBZd 5	Ave	22875	47372	97782	162948	481823	0.200	0.500	1.00	2.00	5.00
			952854	2493152				10.0	25.0			
Chlorobenzene	CBZd 5	Ave	40027	102941	204459	359544	1049871	0.200	0.500	1.00	2.00	5.00
			2069032	5284095				10.0	25.0			
1,1,1,2-Tetrachloroethane	CBZd 5	Ave	13816	34472	71592	126543	364212	0.200	0.500	1.00	2.00	5.00
			724952	1866782				10.0	25.0			
Ethylbenzene	CBZd 5	Ave	62070	164325	328788	577827	1729005	0.200	0.500	1.00	2.00	5.00
			3420475	8885505				10.0	25.0			
m&p-Xylene	CBZd 5	Ave	52360	132245	266455	467941	1386791	0.400	1.00	2.00	4.00	10.0
			2758842	7042683				20.0	50.0			
o-Xylene	CBZd 5	Ave	25501	66998	130576	233216	692373	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 Enviro Job No.: 410-127761-1 Analy Batch No.: 370594

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 19:00 Calibration End Date: 05/01/2023 21:14 Calibration ID: 49717

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
			1356965	3478903				10.0	25.0			
Styrene	CBZd 5	Ave	39056 2291966	104932 5931671	210503	385075	1157660	0.200	0.500	1.00	2.00	5.00
Bromoform	CBZd 5	Ave	7029 435399	19481 1129792	38636	74742	214347	0.200	0.500	1.00	2.00	5.00
Isopropylbenzene	CBZd 5	Ave	65642 3491314	172814 8821261	337599	595432	1777018	0.200	0.500	1.00	2.00	5.00
Bromobenzene	DCBd 4	Ave	17167 916724	44961 2329923	89476	160410	465679	0.200	0.500	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	12529 660367	32088 1706677	62481	124888	332415	0.200	0.500	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	23587 1803054	65451 4660377	147995	303203	866324	2.00	5.00	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	3369 171684	8164 442287	17013	33623	85843	0.200	0.500	1.00	2.00	5.00
N-Propylbenzene	DCBd 4	Ave	76970 4192111	195794 10512116	407043	677201	2075659	0.200	0.500	1.00	2.00	5.00
2-Chlorotoluene	DCBd 4	Ave	16756 883135	43676 2274300	84532	151223	446449	0.200	0.500	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd 4	Ave	56055 3105699	149932 7967765	299155	522152	1563918	0.200	0.500	1.00	2.00	5.00
4-Chlorotoluene	DCBd 4	Ave	16588 922230	44763 2397519	84788	160581	465229	0.200	0.500	1.00	2.00	5.00
tert-Butylbenzene	DCBd 4	Ave	13074	35604	70749	114096	363705	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 Enviro Job No.: 410-127761-1 Analy Batch No.: 370594

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 19:00 Calibration End Date: 05/01/2023 21:14 Calibration ID: 49717

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
			713512	1742272				10.0	25.0			
Pentachloroethane	DCBd 4	Ave	9964	27144	53730	110771	294785	0.200	0.500	1.00	2.00	5.00
			589766	1483426				10.0	25.0			
1,2,4-Trimethylbenzene	DCBd 4	Ave	57985	148758	306816	542964	1624641	0.200	0.500	1.00	2.00	5.00
			3242306	8353257				10.0	25.0			
sec-Butylbenzene	DCBd 4	Ave	72983	186251	384327	663377	1980038	0.200	0.500	1.00	2.00	5.00
			3944219	9867631				10.0	25.0			
1,3-Dichlorobenzene	DCBd 4	Ave	32480	83617	171093	312158	914516	0.200	0.500	1.00	2.00	5.00
			1836862	4699075				10.0	25.0			
p-Isopropyltoluene	DCBd 4	Ave	64543	167879	335086	598481	1778983	0.200	0.500	1.00	2.00	5.00
			3536853	8904015				10.0	25.0			
1,4-Dichlorobenzene	DCBd 4	Ave	32469	84167	179100	316219	924059	0.200	0.500	1.00	2.00	5.00
			1829431	4599614				10.0	25.0			
1,2,3-Trimethylbenzene	DCBd 4	Ave	28408	71815	138288	251377	740448	0.200	0.500	1.00	2.00	5.00
			1472721	3759555				10.0	25.0			
Benzyl chloride	DCBd 4	Ave	3850	10917	25411	52748	145876	0.200	0.500	1.00	2.00	5.00
			302290	804820				10.0	25.0			
n-Butylbenzene	DCBd 4	Ave	26696	74713	155533	278872	854099	0.200	0.500	1.00	2.00	5.00
			1703384	4480154				10.0	25.0			
1,2-Dichlorobenzene	DCBd 4	Ave	28109	80550	159443	297449	865624	0.200	0.500	1.00	2.00	5.00
			1724658	4378271				10.0	25.0			
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1429	4012	8022	16485	46653	0.200	0.500	1.00	2.00	5.00
			98449	263897				10.0	25.0			
1,3,5-Trichlorobenzene	DCBd 4	Ave	24365	66748	133394	245749	724908	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 Environ Job No.: 410-127761-1 Analy Batch No.: 370594

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 19:00 Calibration End Date: 05/01/2023 21:14 Calibration ID: 49717

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
			1455706	3707538				10.0	25.0			
1,2,4-Trichlorobenzene	DCBd 4	Ave	16735	47499	99494	187759	575664	0.200	0.500	1.00	2.00	5.00
			1165926	3064699				10.0	25.0			
Hexachlorobutadiene	DCBd 4	Ave	12627	30257	60781	105708	311552	0.200	0.500	1.00	2.00	5.00
			634505	1602514				10.0	25.0			
Naphthalene	DCBd 4	Ave	27789	72423	155856	314062	884074	0.200	0.500	1.00	2.00	5.00
			1879407	5073149				10.0	25.0			
1,2,3-Trichlorobenzene	DCBd 4	Ave	13366	38550	77988	149565	442612	0.200	0.500	1.00	2.00	5.00
			914820	2450351				10.0	25.0			
Dibromofluoromethane (Surr)	FB	Ave	509456	506048	515525	510175	520845	10.0	10.0	10.0	10.0	10.0
			514910	519136				10.0	10.0			
1,2-Dichloroethane-d4 (Surr)	FB	Ave	99401	100392	103800	103393	99162	10.0	10.0	10.0	10.0	10.0
			101377	101150				10.0	10.0			
Toluene-d8 (Surr)	CBZd 5	Ave	2175252	2171926	2196273	2188352	2221928	10.0	10.0	10.0	10.0	10.0
			2226358	2275720				10.0	10.0			
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	925317	919881	929361	937621	953694	10.0	10.0	10.0	10.0	10.0
			959199	980752				10.0	10.0			

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Enviro Job No.: 410-127761-1 Analy Batch No.: 370594

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 19:00 Calibration End Date: 05/01/2023 21:14 Calibration ID: 49717

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-370594/13	CY01X12.D
Level 2	IC 410-370594/14	CY01X13.D
Level 3	IC 410-370594/15	CY01X14.D
Level 4	IC 410-370594/16	CY01X15.D
Level 5	IC 410-370594/17	CY01X16.D
Level 6	ICIS 410-370594/18	CY01X17.D
Level 7	IC 410-370594/19	CY01X18.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	5.5 -2.4	-3.1	2.7	-1.6	0.0	-1.0	50 30	30	30	30	30	30
Chloromethane	6.4 -7.4	7.7	0.3	-5.3	0.8	-2.5	50 30	30	30	30	30	30
Vinyl chloride	5.0 -5.8	3.7	0.1	-3.1	2.0	-1.9	50 30	30	30	30	30	30
1,3-Butadiene	13.5 -7.1	3.9	1.9	-0.3	-6.8	-5.0	50 30	30	30	30	30	30
Bromomethane	15.8 -10.3	4.9	-4.7	-0.3	-0.4	-5.0	50 30	30	30	30	30	30
Chloroethane	9.3 -8.5	7.7	0.0	-2.9	-1.5	-4.1	50 30	30	30	30	30	30
Dichlorofluoromethane	4.8 -6.2	6.9	-1.4	-1.7	0.3	-2.8	50 30	30	30	30	30	30
Trichlorofluoromethane	-1.2 -3.0	0.3	1.3	2.3	1.1	-0.9	50 30	30	30	30	30	30
Ethyl ether	7.3 -3.5	3.4	-0.4	-2.2	-2.9	-1.6	50 30	30	30	30	30	30
Freon 123a	12.6 -6.1	1.7	-0.3	-2.9	-1.4	-3.5	50 30	30	30	30	30	30
Acrolein	-5.1 -1.9	3.3	0.2	-1.2	3.0	1.7	50 30	30	30	30	30	30
1,1-Dichloroethene	8.3 -0.9	4.9	1.4	-13.5	1.2	-1.4	50 30	30	30	30	30	30
Acetone	++++ -8.2	17.8	2.2	-3.4	-2.1	-6.3	30	50	30	30	30	30
Freon 113	6.2 1.1	-1.7	6.3	-12.8	1.4	-0.5	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Enviro Job No.: 410-127761-1 Analy Batch No.: 370594

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 19:00 Calibration End Date: 05/01/2023 21:14 Calibration ID: 49717

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Methyl iodide	3.7 -1.4	3.5	2.4	-13.2	3.4	1.5	50 30	30	30	30	30	30
Carbon disulfide	0.1 3.8	2.3	4.0	-15.0	1.6	3.2	50 30	30	30	30	30	30
Methyl acetate	-3.4 -5.6	35.2 *	-6.3	-2.3	-10.6	-7.1	50 30	30	30	30	30	30
Allyl chloride	2.0 4.8	-0.7	2.2	-13.2	3.2	1.6	50 30	30	30	30	30	30
Methylene Chloride	-0.6 2.0	6.1	2.2	-11.2	1.7	-0.2	50 30	30	30	30	30	30
t-Butyl alcohol	10.0 -9.4	9.9	-0.3	0.1	-5.9	-4.4	50 30	30	30	30	30	30
Acrylonitrile	18.2 -6.4	9.1	4.3	-12.0	-6.4	-6.7	50 30	30	30	30	30	30
Methyl tert-butyl ether	3.2 -0.5	4.0	1.4	-7.6	0.0	-0.4	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	8.5 2.4	-1.3	2.4	-14.4	1.9	0.5	50 30	30	30	30	30	30
n-Hexane	1.1 7.2	-1.5	7.3	-16.8	1.5	1.3	50 30	30	30	30	30	30
1,1-Dichloroethane	1.8 2.8	3.2	0.9	-12.5	2.9	0.9	50 30	30	30	30	30	30
di-Isopropyl ether	1.3 3.2	2.1	1.2	-10.1	1.3	1.1	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-1.9 7.9	-0.8	1.2	-14.6	4.1	4.1	50 30	30	30	30	30	30
Ethyl t-butyl ether	-0.1 1.8	3.6	0.6	-8.1	1.2	0.9	50 30	30	30	30	30	30
2-Butanone (MEK)	-6.5 0.4	3.1	-4.1	-0.3	4.8	2.7	50 30	30	30	30	30	30
2,2-Dichloropropane	7.4 -2.7	17.7	0.5	-17.4	-1.2	-4.3	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-2.5 3.8	4.7	2.0	-12.7	3.3	1.4	50 30	30	30	30	30	30
Propionitrile	-26.2 11.7	3.0	1.9	-6.0	8.0	7.5	50 30	30	30	30	30	30
Methacrylonitrile	-10.7 4.1	-4.9	0.5	-1.7	6.6	6.0	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 Enviro Job No.: 410-127761-1 Analy Batch No.: 370594

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 19:00 Calibration End Date: 05/01/2023 21:14 Calibration ID: 49717

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
Bromochloromethane	-6.1 2.4	4.6	3.2	-9.6	3.9	1.5	50 30	30	30	30	30	30
Tetrahydrofuran	22.1 -7.9	-1.4	-1.1	-1.0	-3.7	-6.9	50 30	30	30	30	30	30
Chloroform	0.5 2.7	2.4	3.1	-11.7	2.2	0.8	50 30	30	30	30	30	30
1,1,1-Trichloroethane	4.6 1.1	5.3	1.6	-13.6	1.5	-0.5	50 30	30	30	30	30	30
Cyclohexane	4.0 5.6	-2.8	7.7	-16.3	0.6	1.1	50 30	30	30	30	30	30
Carbon tetrachloride	-2.5 5.4	0.3	2.6	-12.7	4.0	2.8	50 30	30	30	30	30	30
1,1-Dichloropropene	-0.2 5.5	0.5	2.7	-13.4	3.4	1.6	50 30	30	30	30	30	30
Isobutyl alcohol	++++ 17.3	-23.5	-18.7	-1.8	10.0	16.7	30	50	30	30	30	30
Benzene	0.5 3.5	3.1	1.2	-12.6	3.2	1.1	50 30	30	30	30	30	30
1,2-Dichloroethane	11.1 -1.1	8.0	2.0	-15.9	0.5	-4.7	50 30	30	30	30	30	30
t-Amyl methyl ether	-0.6 2.0	3.7	1.1	-8.8	1.7	0.9	50 30	30	30	30	30	30
n-Heptane	-3.9 10.3	-4.7	6.8	-16.0	2.4	5.0	50 30	30	30	30	30	30
Trichloroethene	-1.5 4.3	2.9	2.1	-13.9	3.6	2.5	50 30	30	30	30	30	30
n-Butanol	++++ 2.1	27.2	-5.3	-18.0	-7.1	1.2	30	50	30	30	30	30
Methylcyclohexane	-0.3 7.4	-6.0	7.4	-14.7	3.0	3.3	50 30	30	30	30	30	30
1,2-Dichloropropane	1.3 4.8	-0.8	1.6	-11.9	2.8	2.3	50 30	30	30	30	30	30
Dibromomethane	3.1 1.2	1.3	-1.3	-7.6	1.3	1.9	50 30	30	30	30	30	30
Methyl methacrylate	-2.9 8.2	-9.4	-5.0	-4.9	8.0	6.0	50 30	30	30	30	30	30
1,4-Dioxane	++++ 2.8	-27.3	-3.3	2.8	14.7	10.4	30	50	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Enviro Job No.: 410-127761-1 Analy Batch No.: 370594

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 19:00 Calibration End Date: 05/01/2023 21:14 Calibration ID: 49717

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
Bromodichloromethane	2.2 4.4	-1.0	0.1	-11.6	3.2	2.7	50 30	30	30	30	30	30
2-Nitropropane	-7.0 2.8	-1.9	-3.8	0.6	6.7	2.6	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-9.6 9.4	-2.9	0.2	-10.0	5.7	7.1	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	-9.8 4.2	-2.8	-1.2	-0.8	5.6	4.7	50 30	30	30	30	30	30
Toluene	0.7 3.6	3.0	0.7	-11.8	2.2	1.5	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-14.1 15.6	-8.6	-5.2	-7.9	8.8	11.3	50 30	30	30	30	30	30
Ethyl methacrylate	-8.2 12.5	-6.1	-7.6	-6.4	5.8	10.0	50 30	30	30	30	30	30
1,1,2-Trichloroethane	13.2 -0.6	2.9	-5.6	-8.0	-0.7	-1.0	50 30	30	30	30	30	30
Tetrachloroethene	-0.4 2.3	3.2	1.9	-11.2	3.7	0.5	50 30	30	30	30	30	30
1,3-Dichloropropane	-4.7 5.2	-1.2	-0.4	-5.7	3.0	3.9	50 30	30	30	30	30	30
2-Hexanone	-32.6 14.8	-11.3	-3.2	5.2	12.6	14.6	50 30	30	30	30	30	30
Dibromochloromethane	-4.3 7.6	-3.0	-1.3	-8.3	5.3	4.1	50 30	30	30	30	30	30
1,2-Dibromoethane (EDB)	-2.8 5.4	1.4	-3.0	-8.5	3.9	3.6	50 30	30	30	30	30	30
1-Chlorohexane	18.4 0.9	-1.1	0.5	-15.4	-1.1	-2.1	50 30	30	30	30	30	30
Chlorobenzene	-0.7 2.4	3.0	0.7	-10.6	3.2	1.9	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-1.3 4.2	-0.7	1.5	-9.4	3.1	2.7	50 30	30	30	30	30	30
Ethylbenzene	-5.0 6.3	1.4	-0.1	-11.4	4.9	3.9	50 30	30	30	30	30	30
m&p-Xylene	-1.0 4.0	0.8	0.0	-11.3	3.9	3.5	50 30	30	30	30	30	30
o-Xylene	-2.7 3.8	3.2	-1.1	-10.8	4.8	2.8	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 Enviro Job No.: 410-127761-1 Analy Batch No.: 370594

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 19:00 Calibration End Date: 05/01/2023 21:14 Calibration ID: 49717

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
Styrene	-8.7 8.3	-1.1	-2.3	-9.8	7.2	6.3	50 30	30	30	30	30	30
Bromoform	-12.2 10.3	-1.8	-4.1	-6.4	6.2	8.0	50 30	30	30	30	30	30
Isopropylbenzene	-2.4 2.5	3.7	-0.3	-11.2	4.7	3.0	50 30	30	30	30	30	30
Bromobenzene	-2.1 0.5	3.1	0.1	-9.3	5.3	2.4	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-1.6 1.4	1.4	-3.7	-2.7	3.5	1.6	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-22.9 15.4	-13.9	-5.0	-1.6	12.4	15.6	50 30	30	30	30	30	30
1,2,3-Trichloropropane	0.6 0.0	-1.9	-0.3	-0.4	1.6	0.4	50 30	30	30	30	30	30
N-Propylbenzene	-1.5 1.8	0.8	2.3	-14.0	5.4	5.1	50 30	30	30	30	30	30
2-Chlorotoluene	-0.7 2.0	4.1	-1.7	-11.1	4.9	2.5	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-4.3 2.9	3.0	0.2	-11.6	5.9	3.9	50 30	30	30	30	30	30
4-Chlorotoluene	-4.7 4.3	3.5	-4.4	-8.5	6.0	3.8	50 30	30	30	30	30	30
tert-Butylbenzene	-2.8 -2.0	6.5	3.2	-15.9	7.2	3.9	50 30	30	30	30	30	30
Pentachloroethane	-9.3 2.2	-0.6	-4.0	0.0	6.4	5.2	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-4.1 4.6	-1.0	-0.4	-10.9	6.6	5.1	50 30	30	30	30	30	30
sec-Butylbenzene	-1.7 0.6	0.9	1.6	-11.4	5.8	4.1	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-4.7 4.4	-1.3	-1.4	-9.1	6.4	5.6	50 30	30	30	30	30	30
p-Isopropyltoluene	-2.7 1.6	1.8	-0.9	-10.5	6.3	4.4	50 30	30	30	30	30	30
1,4-Dichlorobenzene	-5.4 1.5	-1.3	2.5	-8.6	6.8	4.5	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	1.4 1.6	3.2	-3.1	-11.0	4.8	3.0	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 Enviro Job No.: 410-127761-1 Analy Batch No.: 370594

SDG No.: _____

Instrument ID: 10193 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/01/2023 19:00 Calibration End Date: 05/01/2023 21:14 Calibration ID: 49717

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
Benzyl chloride	-25.7 17.6	-15.2	-3.7	1.0	11.7	14.3	50 30	30	30	30	30	30
n-Butylbenzene	-13.5 9.8	-2.6	-1.1	-10.4	9.7	8.1	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-11.6 4.2	1.9	-1.6	-7.2	8.0	6.3	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-16.8 16.2	-6.1	-8.4	-4.8	7.7	12.3	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-8.9 5.0	0.5	-2.1	-8.8	7.5	6.7	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-18.0 13.7	-6.4	-4.3	-8.7	11.9	11.9	50 30	30	30	30	30	30
Hexachlorobutadiene	5.1 0.9	1.3	-0.7	-12.8	2.8	3.4	50 30	30	30	30	30	30
Naphthalene	-15.0 17.4	-10.9	-6.5	-4.7	7.2	12.6	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-17.2 14.8	-4.0	-5.2	-8.1	8.7	11.0	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-0.2 -1.3	0.0	1.1	-0.4	1.0	-0.1	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	-1.2 -2.4	0.6	3.3	2.4	-2.5	-0.2	50 30	30	30	30	30	30
Toluene-d8 (Surr)	-0.9 1.2	-0.3	-0.7	-0.1	0.3	0.6	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-1.4 2.1	-1.2	-1.7	0.1	0.7	1.4	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X12.D
 Lims ID: IC std1 0.2
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 01-May-2023 19:00:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0082854-013
 Misc. Info.: IC STD1 0.2
 Operator ID: knk41612 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-May-2023 07:27:35 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: DVW2

Date: 02-May-2023 07:59:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.727	1.733	-0.006	97	15489	0.2000	0.2110	M
5 Chloromethane	50	1.892	1.898	-0.006	98	18321	0.2000	0.2127	
6 Vinyl chloride	62	1.995	1.995	0.000	97	17292	0.2000	0.2101	
7 Butadiene	39	2.007	2.008	-0.001	91	17372	0.2000	0.2270	M
9 Bromomethane	94	2.276	2.282	-0.006	91	12993	0.2000	0.2316	
10 Chloroethane	64	2.343	2.337	0.006	99	10576	0.2000	0.2186	
11 Dichlorofluoromethane	67	2.550	2.556	-0.006	97	23911	0.2000	0.2097	
12 Trichlorofluoromethane	101	2.611	2.605	0.006	96	19470	0.2000	0.1975	
13 Pentane	43	2.611	2.611	0.000	97	18407	0.2000	0.2274	M
14 Ethyl ether	59	2.782	2.788	-0.006	89	10919	0.2000	0.2145	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.873	2.879	-0.006	89	15768	0.2000	0.2253	
17 Acrolein	56	2.952	2.934	0.018	99	62640	10.0	9.49	
18 1,1-Dichloroethene	96	3.044	3.050	-0.006	98	10742	0.2000	0.2166	
20 Acetone	43	3.093	3.074	0.019	93	23102	2.00	3.08	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.093	3.093	0.000	91	10697	0.2000	0.2124	
22 Iodomethane	142	3.221	3.215	0.006	96	21480	0.2000	0.2075	
24 Isopropyl alcohol	45	3.208	3.227	-0.019	29	4964	4.00	3.41	M
23 Ethyl bromide	108	3.239	3.239	0.000	98	10392	0.2004	0.2080	
25 Carbon disulfide	76	3.312	3.300	0.012	99	34531	0.2000	0.2002	
26 Methyl acetate	43	3.422	3.428	-0.006	60	4652	0.2000	0.1932	
29 3-Chloro-1-propene	41	3.446	3.446	0.000	91	18170	0.2000	0.2041	
30 Methylene Chloride	84	3.611	3.605	0.006	92	11811	0.2000	0.1989	M
* 31 t-Butyl alcohol-d10 (IS)	65	3.653	3.672	-0.019	97	157568	50.0	50.0	
32 2-Methyl-2-propanol	59	3.751	3.769	-0.018	91	13289	4.00	4.40	
33 Acrylonitrile	53	3.946	3.910	0.036	26	6430	0.5000	0.5911	
34 Methyl tert-butyl ether	73	3.952	3.952	0.000	93	35393	0.2000	0.2064	
35 trans-1,2-Dichloroethene	96	3.964	3.952	0.012	97	13163	0.2000	0.2171	M
36 Hexane	57	4.348	4.349	-0.001	92	15574	0.2000	0.2023	
37 1,1-Dichloroethane	63	4.586	4.586	0.000	96	22342	0.2000	0.2036	
39 Isopropyl ether	45	4.665	4.653	0.012	94	40380	0.2000	0.2025	a

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.708	4.696	0.012	91	17456	0.2000	0.1962	
41 Tert-butyl ethyl ether	59	5.208	5.208	0.000	97	40120	0.2000	0.1997	M
42 2-Butanone (MEK)	43	5.452	5.409	0.043	81	27817	2.00	1.87	
43 cis-1,2-Dichloroethene	96	5.464	5.446	0.018	82	12928	0.2000	0.1950	
44 2,2-Dichloropropane	77	5.446	5.452	-0.006	74	20875	0.2000	0.2149	M
45 Propionitrile	54	5.604	5.507	0.097	28	9604	4.00	2.95	M
47 Methacrylonitrile	67	5.757	5.720	0.037	90	28504	2.00	1.79	
48 Chlorobromomethane	128	5.787	5.781	0.006	86	5798	0.2000	0.1879	
49 Tetrahydrofuran	71	5.824	5.787	0.037	58	5811	1.00	1.22	
50 Chloroform	83	5.952	5.940	0.012	93	22073	0.2000	0.2011	
S 52 1,2-Dichloroethene, Total	100				0			0.4121	
53 1,1,1-Trichloroethane	97	6.165	6.159	0.006	37	20253	0.2000	0.2092	
\$ 54 Dibromofluoromethane (Surr)	113	6.165	6.165	0.000	94	509456	10.0	9.98	
55 Cyclohexane	56	6.251	6.257	-0.006	90	20454	0.2000	0.2080	
56 Carbon tetrachloride	117	6.379	6.373	0.006	96	16151	0.2000	0.1949	
57 1,1-Dichloropropene	75	6.379	6.379	0.000	91	16369	0.2000	0.1996	
58 Isobutyl alcohol	41	6.732	6.604	0.128	32	5069	10.0	6.64	a
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.616	0.000	98	99401	10.0	9.88	
60 Benzene	78	6.647	6.647	0.000	95	50342	0.2000	0.2010	
61 1,2-Dichloroethane	62	6.726	6.720	0.006	95	16078	0.2000	0.2222	
64 Tert-amyl methyl ether	73	6.866	6.860	0.006	98	36844	0.2000	0.1988	
* 65 Fluorobenzene (IS)	96	7.067	7.055	0.012	99	1960073	10.0	10.0	
66 n-Heptane	43	7.086	7.086	0.000	92	15467	0.2000	0.1922	
67 n-Butanol	56	7.519	7.531	-0.012	44	768	17.5	42.2	
68 Trichloroethene	95	7.561	7.555	0.006	96	13090	0.2000	0.1971	
69 Methylcyclohexane	83	7.854	7.860	-0.006	85	21246	0.2000	0.1994	
70 1,2-Dichloropropane	63	7.890	7.891	-0.001	95	13314	0.2000	0.2025	
71 2-ethoxy-2-methyl butane	87	7.921	7.927	-0.006	91	19714	0.2000	0.1869	
72 Dibromomethane	93	8.012	8.006	0.006	94	6702	0.2000	0.2062	
73 Methyl methacrylate	69	8.031	8.006	0.025	91	6095	0.2000	0.1942	
74 1,4-Dioxane	88	8.037	8.012	0.025	1	350	10.0	2.10	M
76 Dichlorobromomethane	83	8.256	8.256	0.000	98	16957	0.2000	0.2044	
77 2-Nitropropane	41	8.549	8.543	0.006	97	9327	1.00	0.9298	
78 1-Bromo-2-chloroethane	63	8.665	8.653	0.012	97	13700	0.2000	0.1985	
80 cis-1,3-Dichloropropene	75	8.848	8.829	0.019	95	18411	0.2000	0.1809	
82 4-Methyl-2-pentanone (MIBK)	43	9.043	9.037	0.006	96	74433	2.00	1.80	
\$ 83 Toluene-d8 (Surr)	98	9.165	9.165	0.000	93	2175252	10.0	9.91	
84 Toluene	92	9.256	9.250	0.006	99	34097	0.2000	0.2014	
85 trans-1,3-Dichloropropene	75	9.579	9.555	0.024	91	14546	0.2000	0.1718	
86 Ethyl methacrylate	69	9.652	9.634	0.018	89	12585	0.2000	0.1836	
87 1,1,2-Trichloroethane	97	9.774	9.768	0.006	89	11398	0.2000	0.2263	M
88 Tetrachloroethene	166	9.853	9.854	-0.001	97	15934	0.2000	0.1993	
89 1,3-Dichloropropane	76	9.951	9.945	0.006	92	15458	0.2000	0.1906	
106 2-Hexanone	43	10.042	10.018	0.024	96	36242	2.00	1.35	
S 107 1,3-Dichloropropene, Total	100				0			0.3526	
108 Chlorodibromomethane	129	10.177	10.171	0.006	90	12131	0.2000	0.1913	
110 Ethylene Dibromide	107	10.286	10.280	0.006	97	9215	0.2000	0.1944	
* 111 Chlorobenzene-d5 (IS)	117	10.744	10.743	0.001	85	1838678	10.0	10.0	
112 1-Chlorohexane	91	10.768	10.768	0.000	70	22875	0.2000	0.2368	
113 Chlorobenzene	112	10.774	10.774	0.000	96	40027	0.2000	0.1986	
114 1,1,1,2-Tetrachloroethane	131	10.865	10.859	0.006	89	13816	0.2000	0.1973	
115 Ethylbenzene	91	10.872	10.866	0.006	98	62070	0.2000	0.1900	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	10.993	10.987	0.006	97	52360	0.4000	0.3960	
S 117 Xylenes, Total	106				0			0.5906	
118 o-Xylene	106	11.335	11.335	0.000	96	25501	0.2000	0.1947	
119 Styrene	104	11.359	11.353	0.006	95	39056	0.2000	0.1826	
120 Bromoform	173	11.512	11.506	0.006	97	7029	0.2000	0.1757	
121 Isopropylbenzene	105	11.652	11.646	0.006	95	65642	0.2000	0.1952	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.792	0.000	94	925317	10.0	9.86	
125 Bromobenzene	156	11.914	11.908	0.006	88	17167	0.2000	0.1957	
126 1,1,2,2-Tetrachloroethane	83	11.914	11.908	0.006	76	12529	0.2000	0.1968	M
127 trans-1,4-Dichloro-2-butene	53	11.951	11.932	0.019	84	23587	2.00	1.54	
128 1,2,3-Trichloropropane	110	11.957	11.951	0.006	78	3369	0.2000	0.2012	
129 N-Propylbenzene	91	11.993	11.987	0.006	99	76970	0.2000	0.1971	
130 2-Chlorotoluene	126	12.066	12.060	0.006	97	16756	0.2000	0.1986	
131 1,3,5-Trimethylbenzene	105	12.134	12.134	0.000	95	56055	0.2000	0.1914	
132 4-Chlorotoluene	126	12.164	12.158	0.006	97	16588	0.2000	0.1906	
133 tert-Butylbenzene	134	12.377	12.377	0.000	93	13074	0.2000	0.1943	
134 Pentachloroethane	167	12.408	12.408	0.000	87	9964	0.2000	0.1814	
135 1,2,4-Trimethylbenzene	105	12.426	12.420	0.006	97	57985	0.2000	0.1919	
136 sec-Butylbenzene	105	12.548	12.542	0.006	94	72983	0.2000	0.1966	
137 1,3-Dichlorobenzene	146	12.652	12.640	0.012	98	32480	0.2000	0.1907	
138 4-Isopropyltoluene	119	12.658	12.658	0.000	97	64543	0.2000	0.1945	
* 139 1,4-Dichlorobenzene-d4	152	12.700	12.700	0.000	94	1137326	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.719	12.719	0.000	91	32469	0.2000	0.1893	
141 1,2,3-Trimethylbenzene	120	12.731	12.731	0.000	97	28408	0.2000	0.2028	
142 Benzyl chloride	126	12.810	12.798	0.012	99	3850	0.2000	0.1486	
145 p-Diethylbenzene	119	12.938	12.932	0.006	96	38123	0.2000	0.1866	
143 n-Butylbenzene	92	12.957	12.957	0.000	97	26696	0.2000	0.1729	
144 1,2-Dichlorobenzene	146	12.993	12.981	0.012	98	28109	0.2000	0.1768	
148 1,2-Dibromo-3-Chloropropane	155	13.554	13.536	0.018	89	1429	0.2000	0.1663	
149 1,3,5-Trichlorobenzene	180	13.670	13.664	0.006	97	24365	0.2000	0.1823	
150 1,2,4-Trichlorobenzene	180	14.109	14.091	0.018	94	16735	0.2000	0.1640	
151 Hexachlorobutadiene	225	14.176	14.176	0.000	96	12627	0.2000	0.2101	
152 Naphthalene	128	14.292	14.273	0.019	96	27789	0.2000	0.1699	
153 1,2,3-Trichlorobenzene	180	14.432	14.420	0.012	94	13366	0.2000	0.1655	
154 2-Methylnaphthalene	142	15.041	15.017	0.024	90	5713	0.2000	0.2878	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00075

Amount Added: 2.00

Units: uL

MSV_LL_#2_826_00083

Amount Added: 2.00

Units: uL

MSV_LL_GAS826_00148

Amount Added: 2.00

Units: uL

MSV_HP25_ISSS_00068

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X12.D

Injection Date: 01-May-2023 19:00:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: IC std1 0.2

Worklist Smp#: 13

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

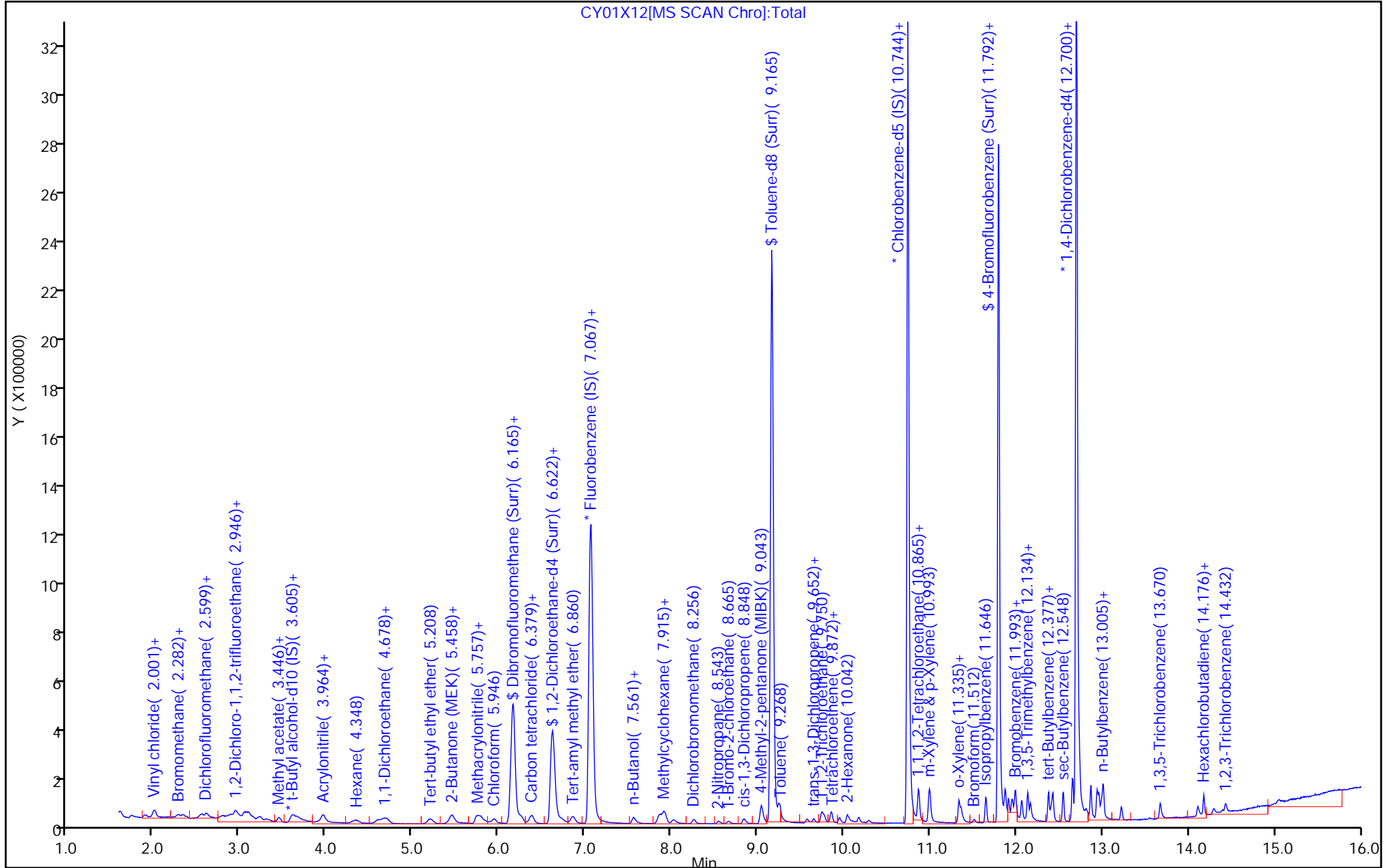
ALS Bottle#: 12

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

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



Eurofins Lancaster Laboratories Environment Testing, LLC

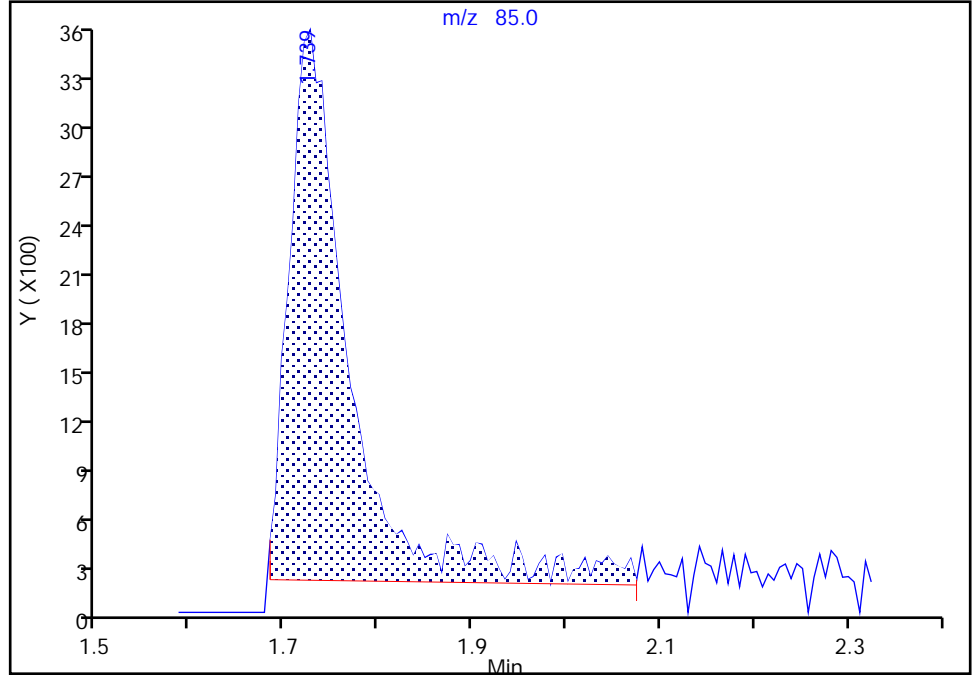
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 Injection Date: 01-May-2023 19:00:30 Instrument ID: 10193
 Lims ID: IC std1 0.2
 Client ID:
 Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
 Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

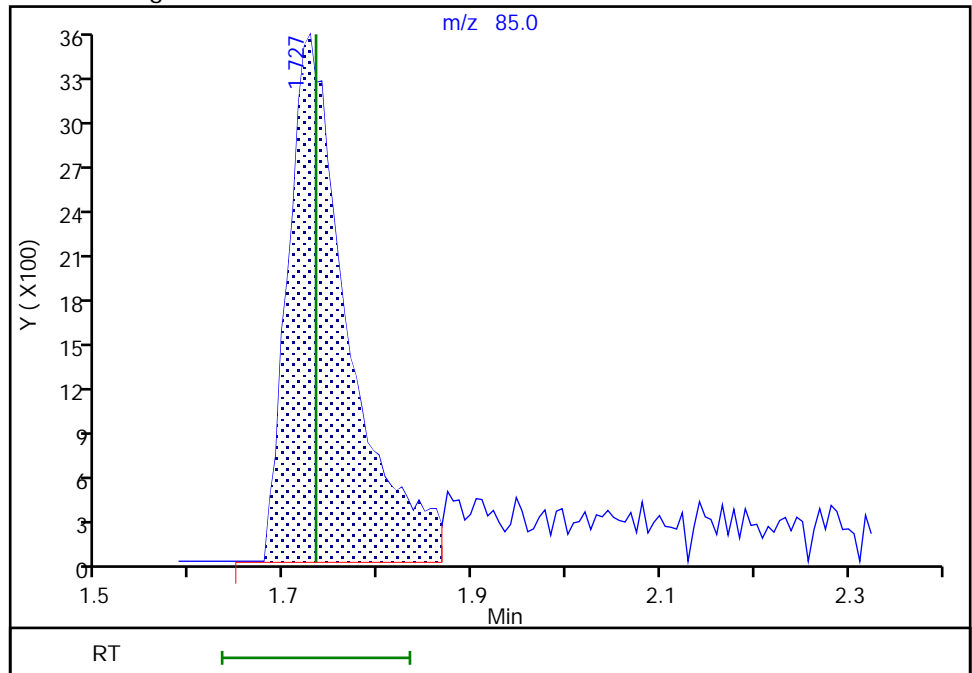
RT: 1.74
 Area: 15075
 Amount: 0.235263
 Amount Units: ug/l

Processing Integration Results



RT: 1.73
 Area: 15489
 Amount: 0.210973
 Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 07:56:05 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

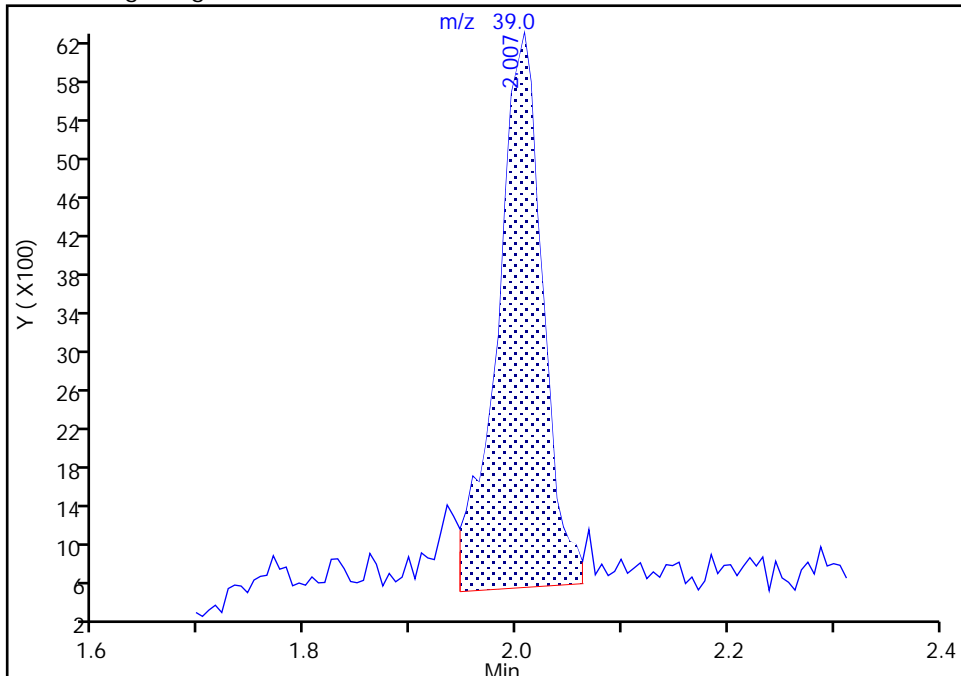
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Injection Date: 01-May-2023 19:00:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

7 Butadiene, CAS: 106-99-0

Signal: 1

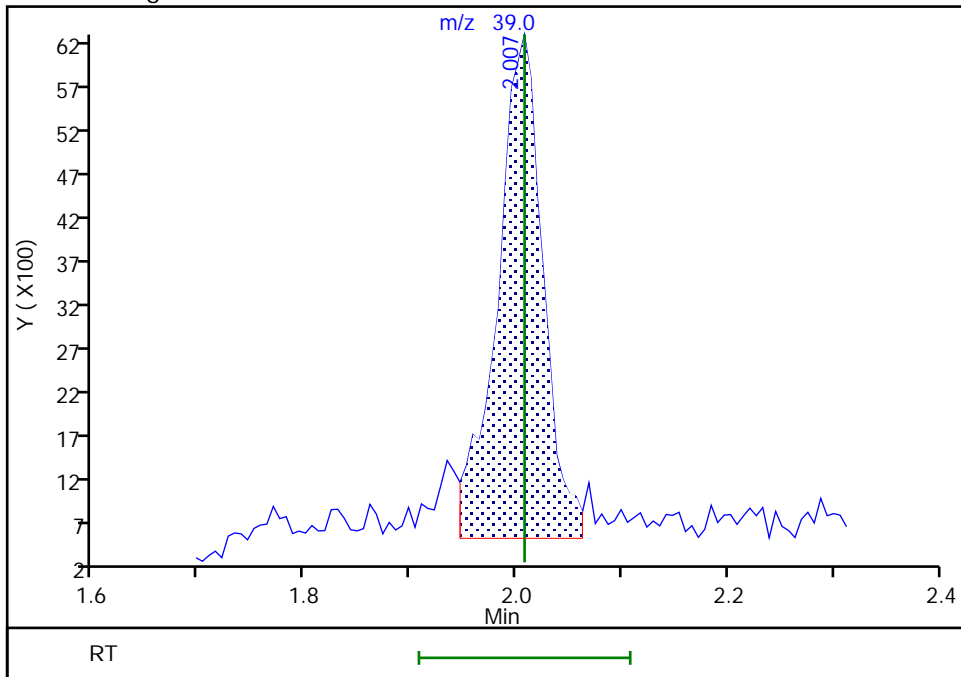
RT: 2.01
Area: 17042
Amount: 0.223413
Amount Units: ug/l

Processing Integration Results



RT: 2.01
Area: 17372
Amount: 0.227038
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 07:56:21 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

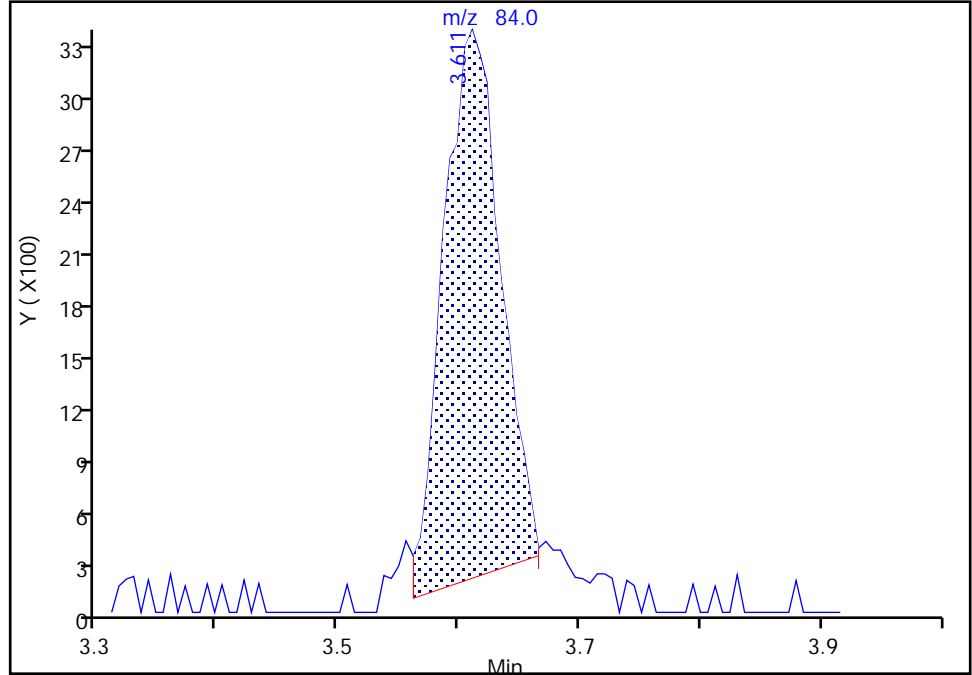
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X12.D
Injection Date: 01-May-2023 19:00:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

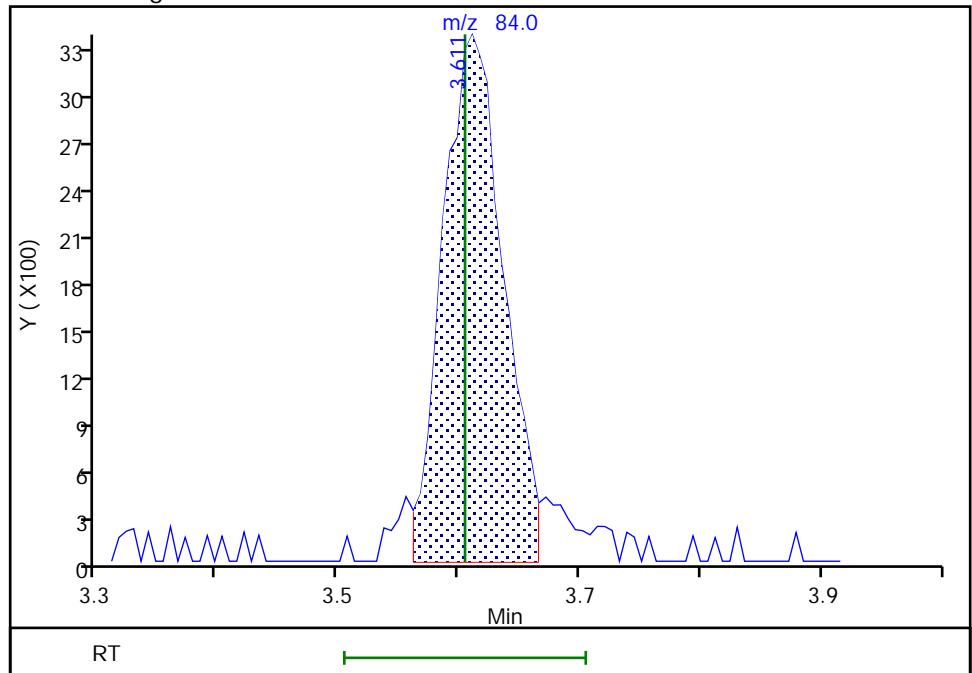
RT: 3.61
Area: 10467
Amount: 0.179153
Amount Units: ug/l

Processing Integration Results



RT: 3.61
Area: 11811
Amount: 0.198888
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 07:57:11 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

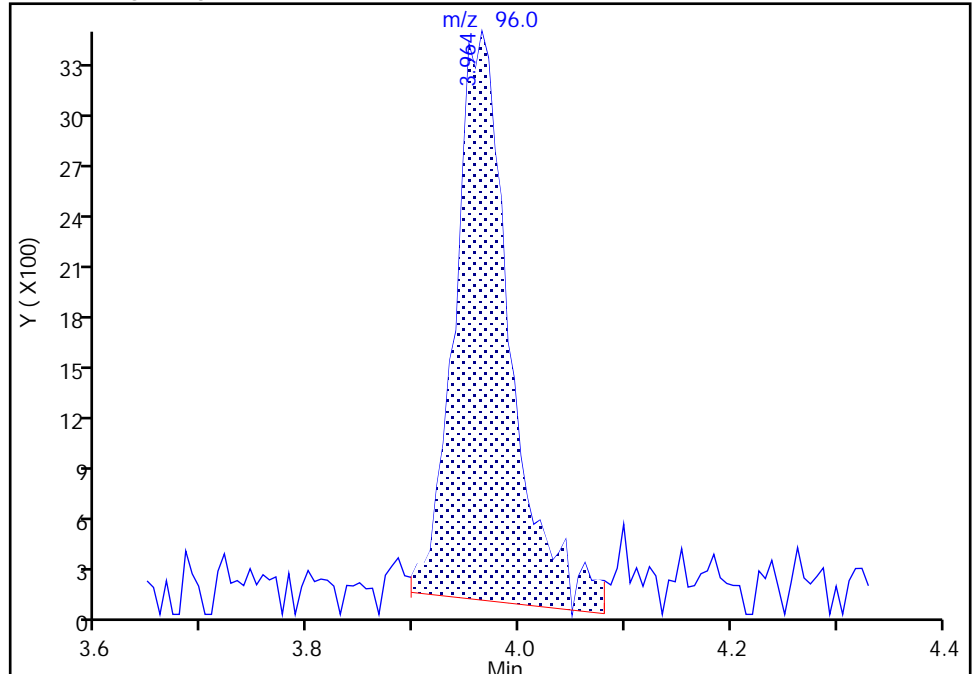
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X12.D
Injection Date: 01-May-2023 19:00:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

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

Signal: 1

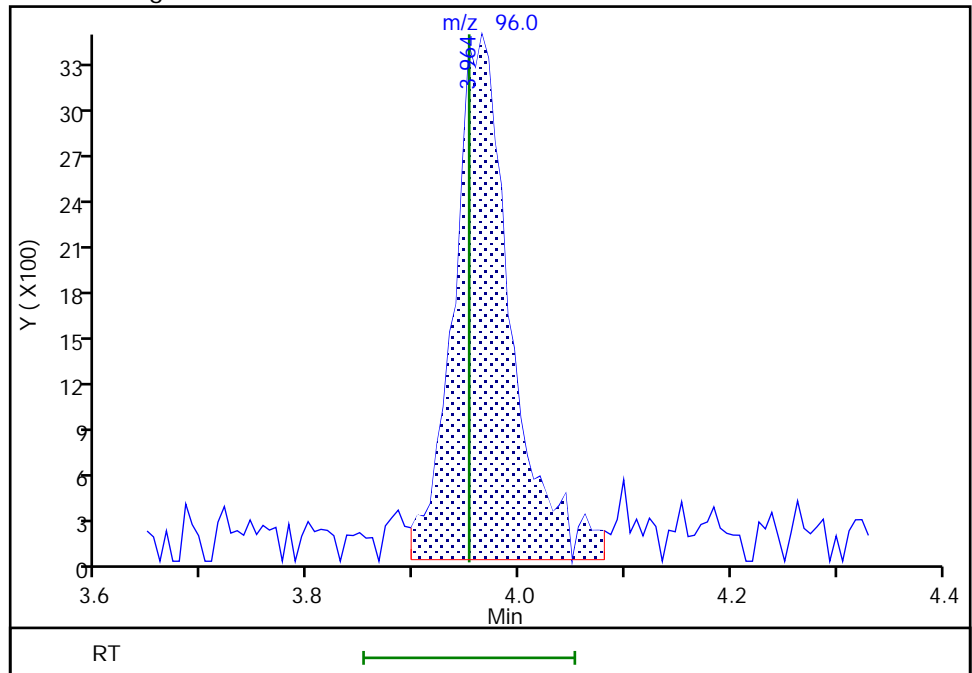
RT: 3.96
Area: 12460
Amount: 0.207182
Amount Units: ug/l

Processing Integration Results



RT: 3.96
Area: 13163
Amount: 0.217058
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 07:57:28 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

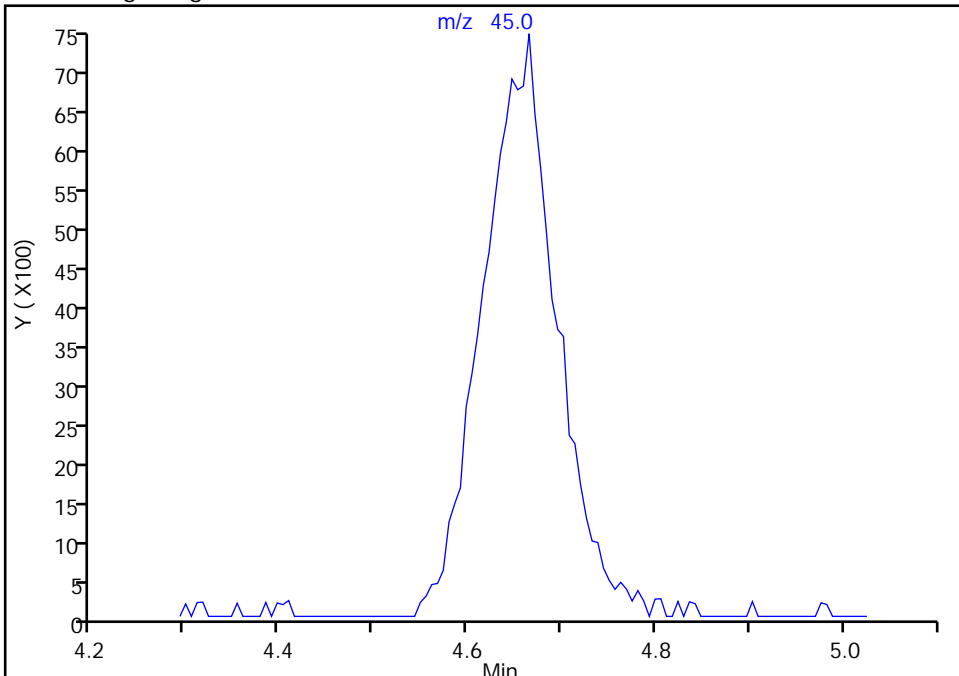
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X12.D
Injection Date: 01-May-2023 19:00:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

39 Isopropyl ether, CAS: 108-20-3

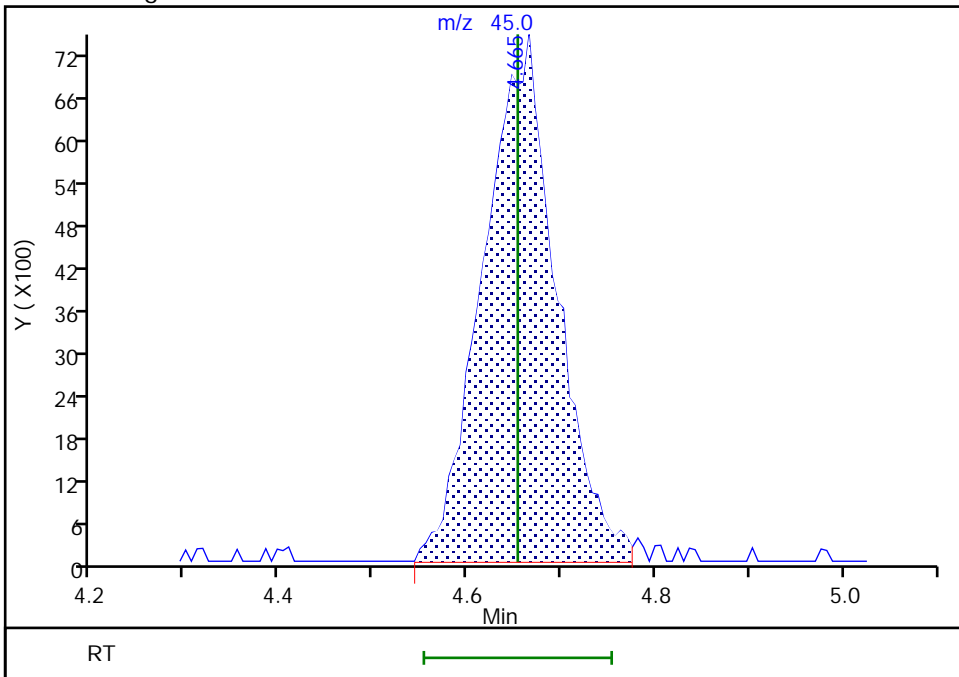
Signal: 1

Not Detected
Expected RT: 4.65

Processing Integration Results



Manual Integration Results



RT: 4.67
Area: 40380
Amount: 0.202540
Amount Units: ug/l

Eurofins Lancaster Laboratories Environment Testing, LLC

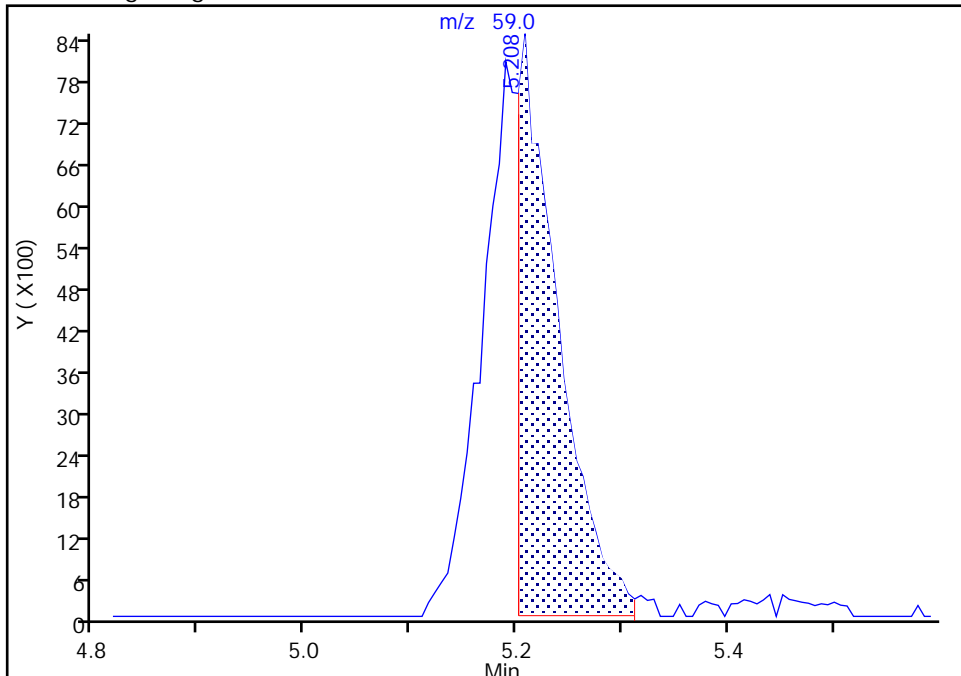
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X12.D
Injection Date: 01-May-2023 19:00:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

41 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

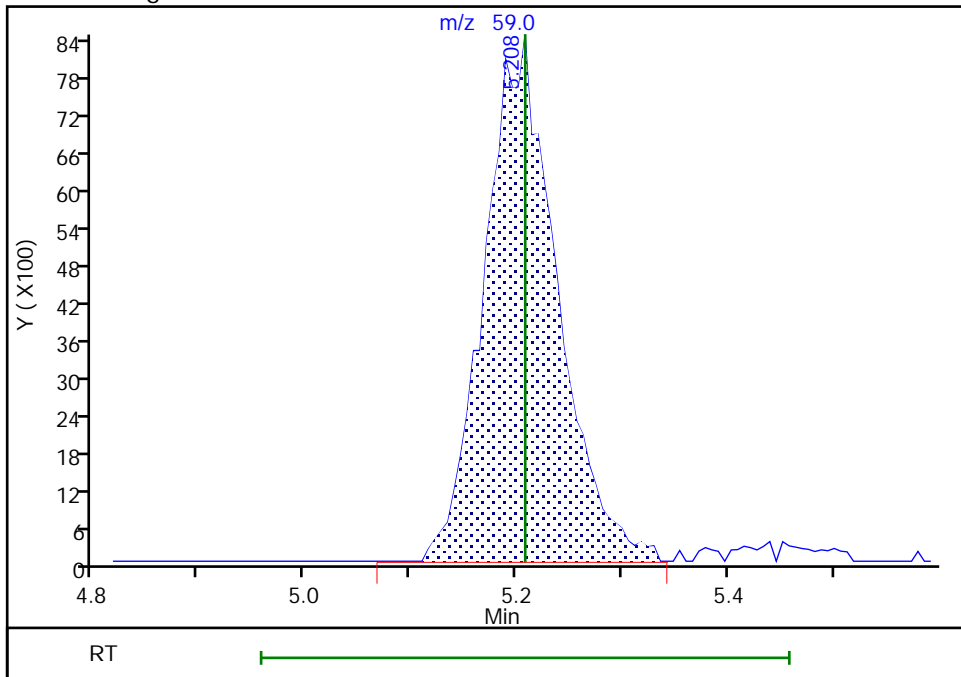
RT: 5.21
Area: 22715
Amount: 0.120550
Amount Units: ug/l

Processing Integration Results



RT: 5.21
Area: 40120
Amount: 0.199741
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 07:57:39 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

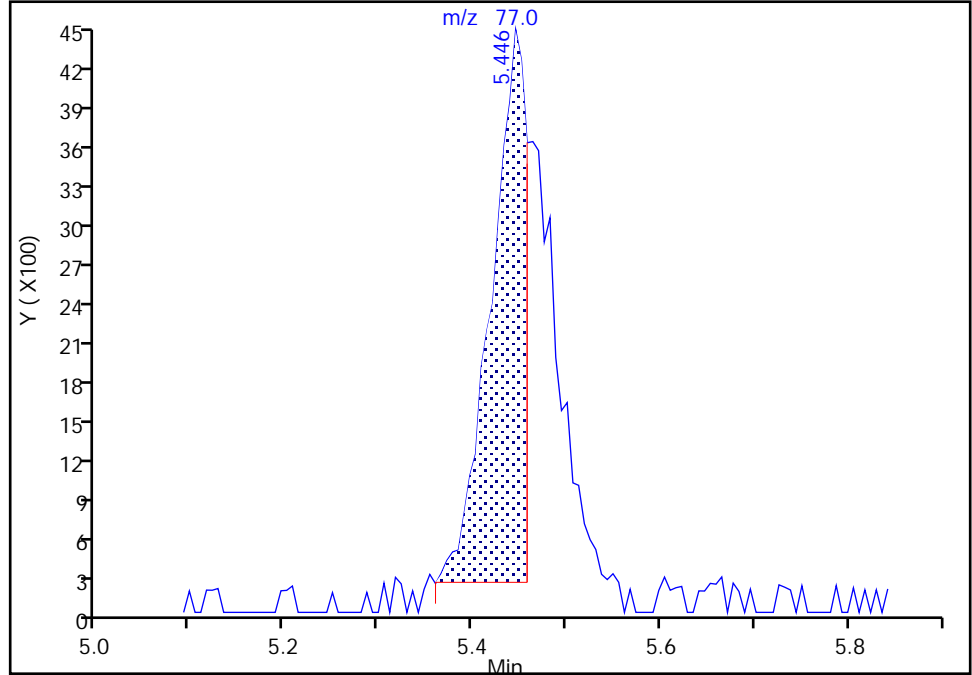
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X12.D
Injection Date: 01-May-2023 19:00:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

44 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

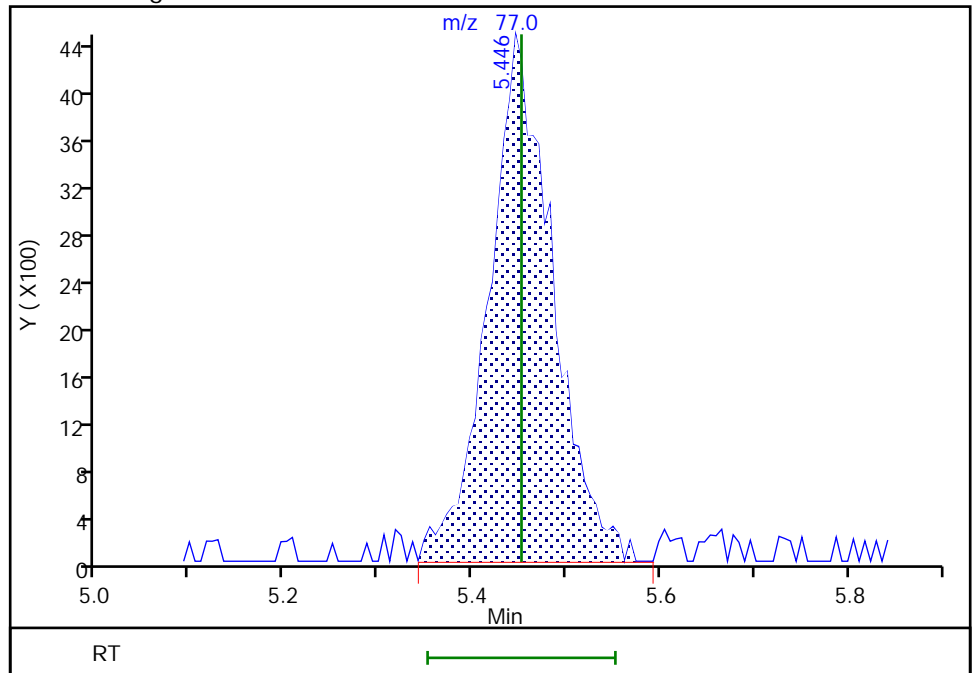
RT: 5.45
Area: 11001
Amount: 0.230483
Amount Units: ug/l

Processing Integration Results



RT: 5.45
Area: 20875
Amount: 0.214867
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 07:57:45 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

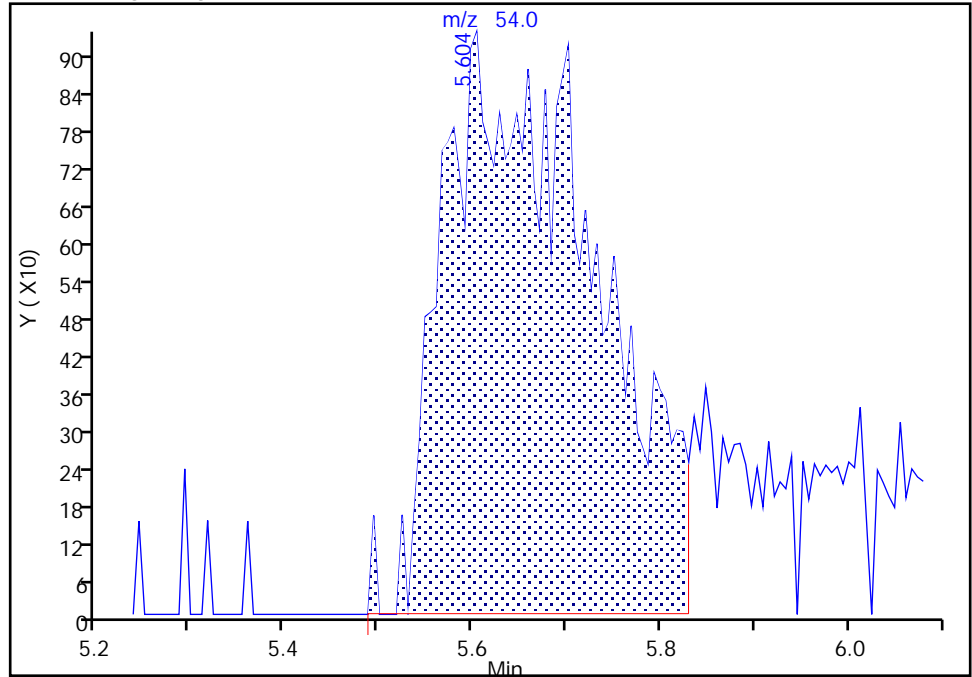
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X12.D
Injection Date: 01-May-2023 19:00:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

45 Propionitrile, CAS: 107-12-0

Signal: 1

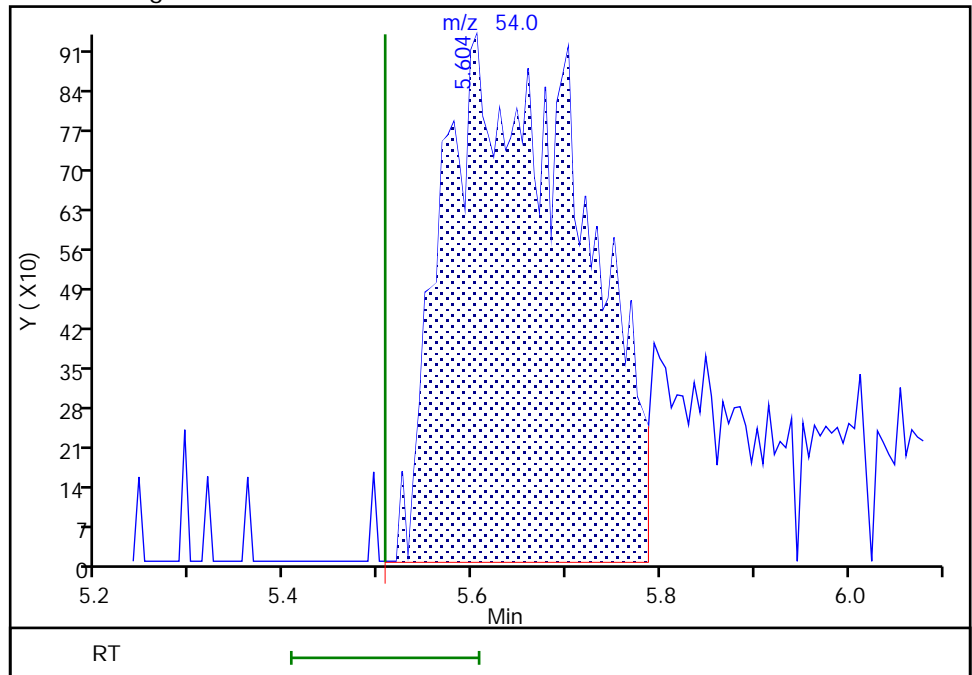
RT: 5.60
Area: 10467
Amount: 3.104403
Amount Units: ug/l

Processing Integration Results



RT: 5.60
Area: 9604
Amount: 2.953640
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 07:58:09 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

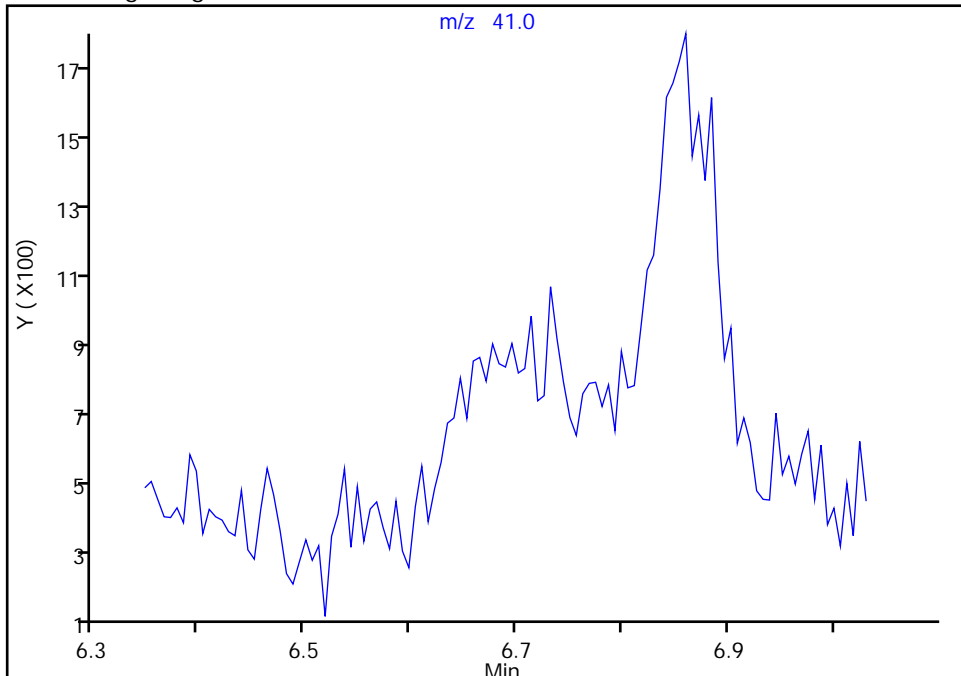
Data File:	\\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X12.D		
Injection Date:	01-May-2023 19:00:30	Instrument ID:	10193
Lims ID:	IC std1 0.2		
Client ID:			
Operator ID:	knk41612	ALS Bottle#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D
Column:	Rxi-624Sil MS Capillary Column (0.25mm ID)	Detector:	MS Quad
		Worklist Smp#:	13

58 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

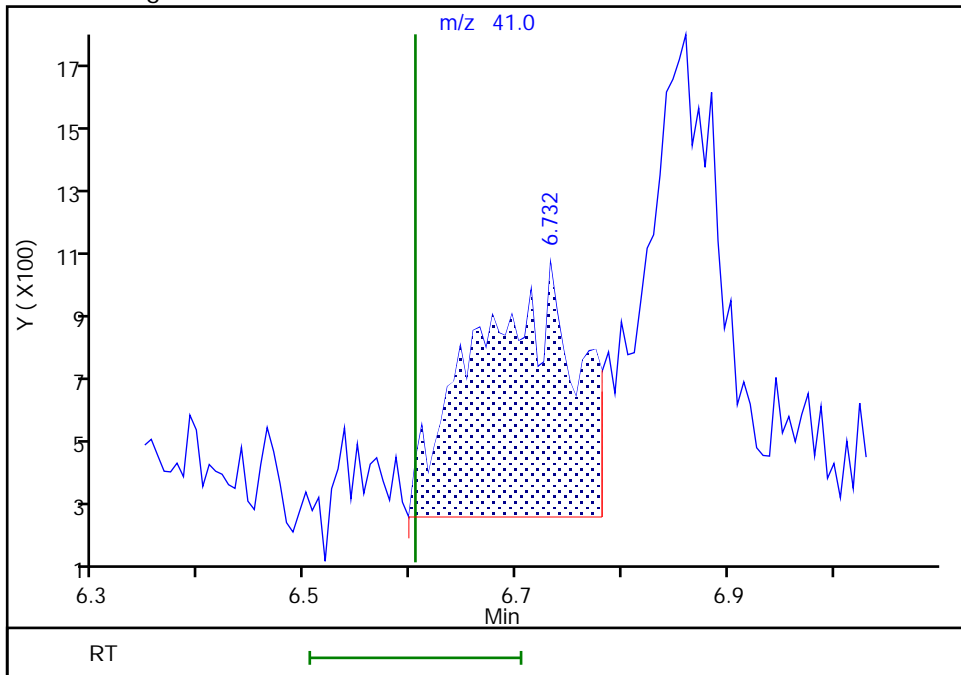
Not Detected
Expected RT: 6.60

Processing Integration Results



Manual Integration Results

RT: 6.73
 Area: 5069
 Amount: 6.643938
 Amount Units: ug/l



Reviewer: DVW2, 02-May-2023 07:58:25 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

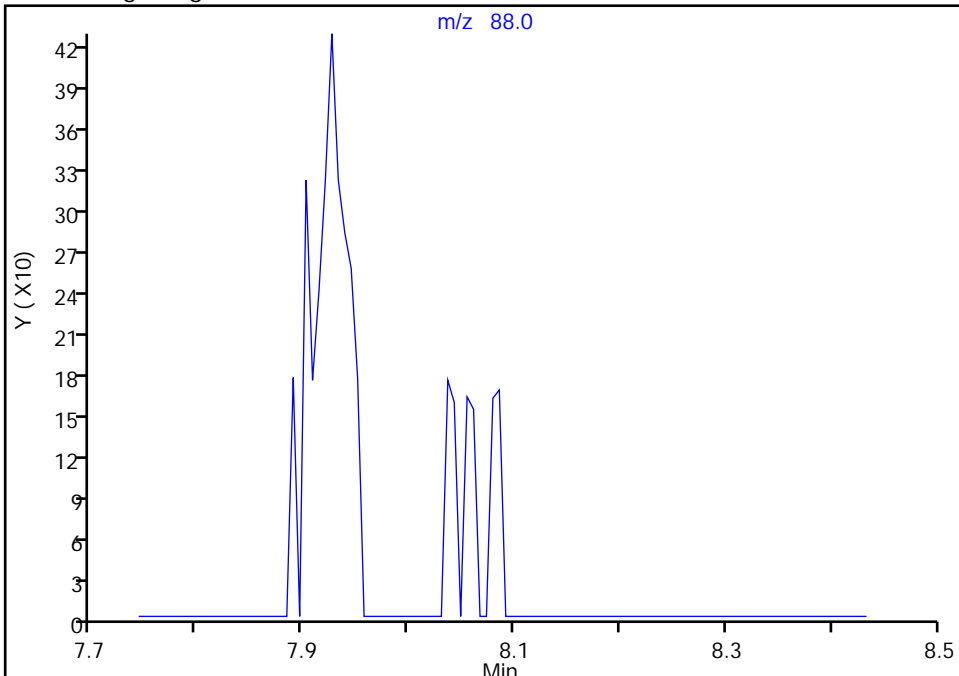
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X12.D
Injection Date: 01-May-2023 19:00:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

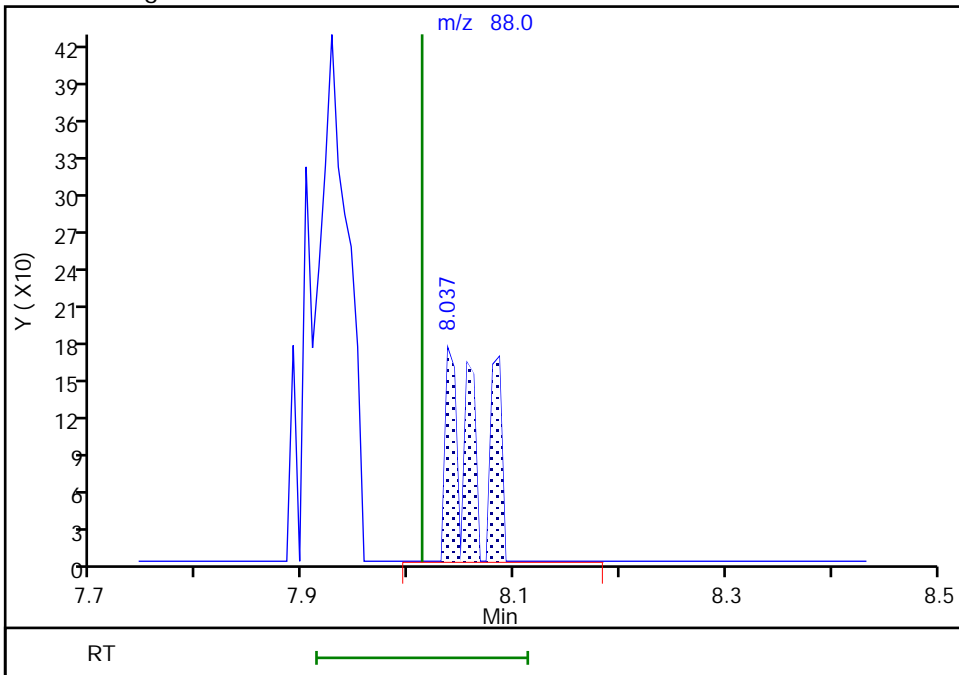
Not Detected
Expected RT: 8.01

Processing Integration Results



Manual Integration Results

RT: 8.04
Area: 350
Amount: 2.096653
Amount Units: ug/l



Reviewer: DVW2, 02-May-2023 07:58:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

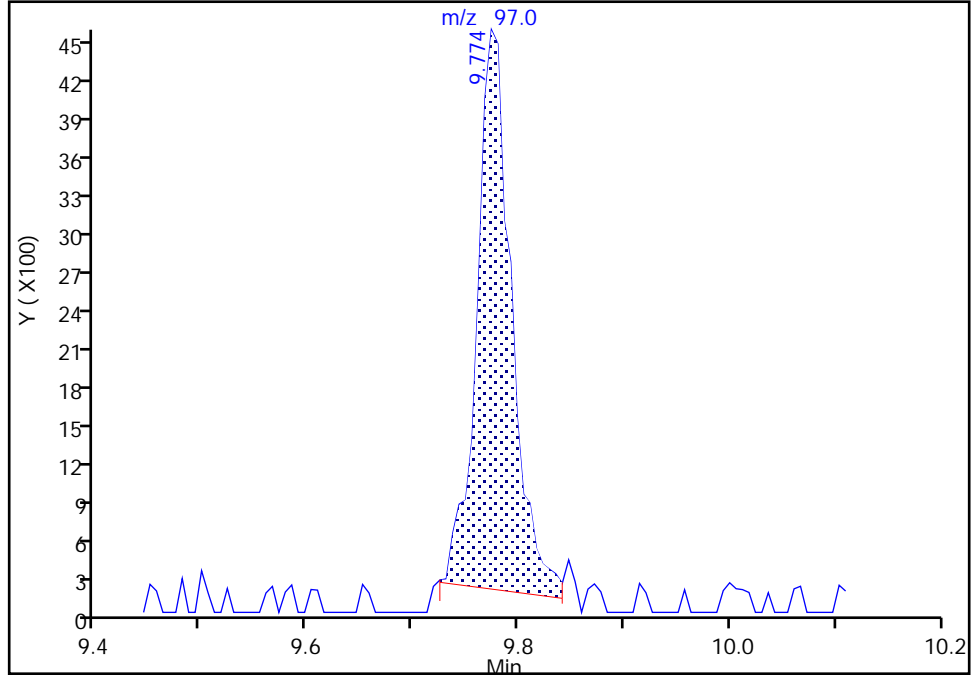
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X12.D
Injection Date: 01-May-2023 19:00:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

87 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

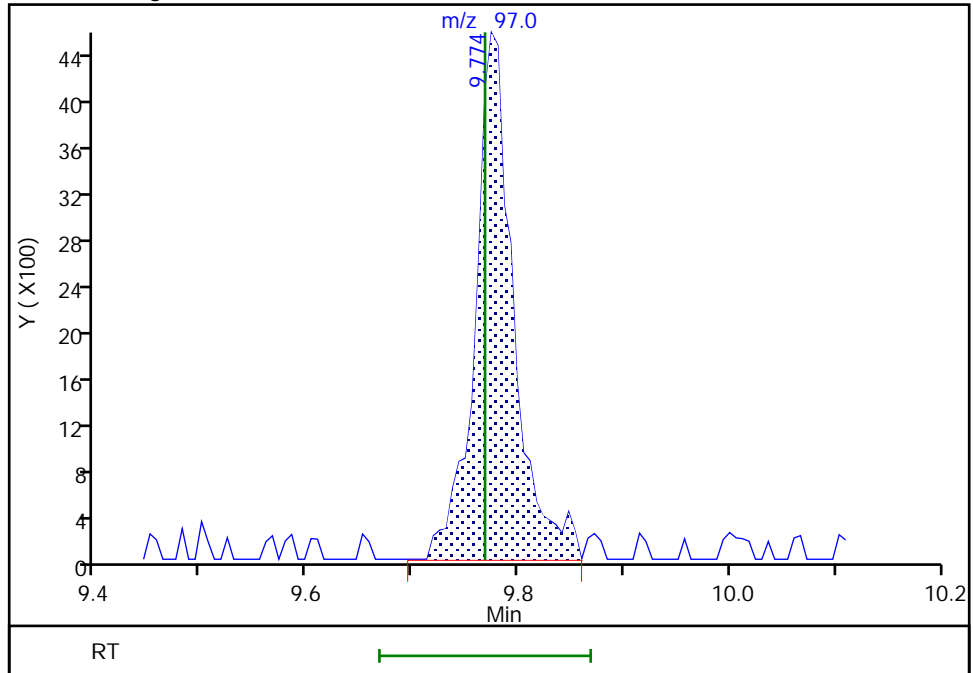
RT: 9.77
Area: 9885
Amount: 0.200573
Amount Units: ug/l

Processing Integration Results



RT: 9.77
Area: 11398
Amount: 0.226310
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 07:59:04 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

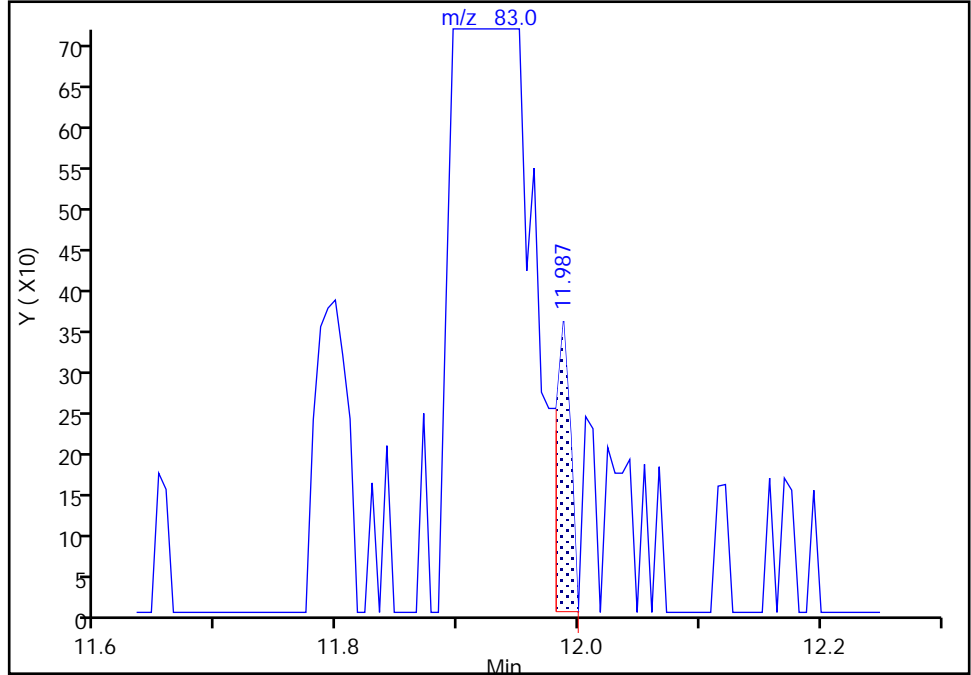
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X12.D
Injection Date: 01-May-2023 19:00:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

126 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 1

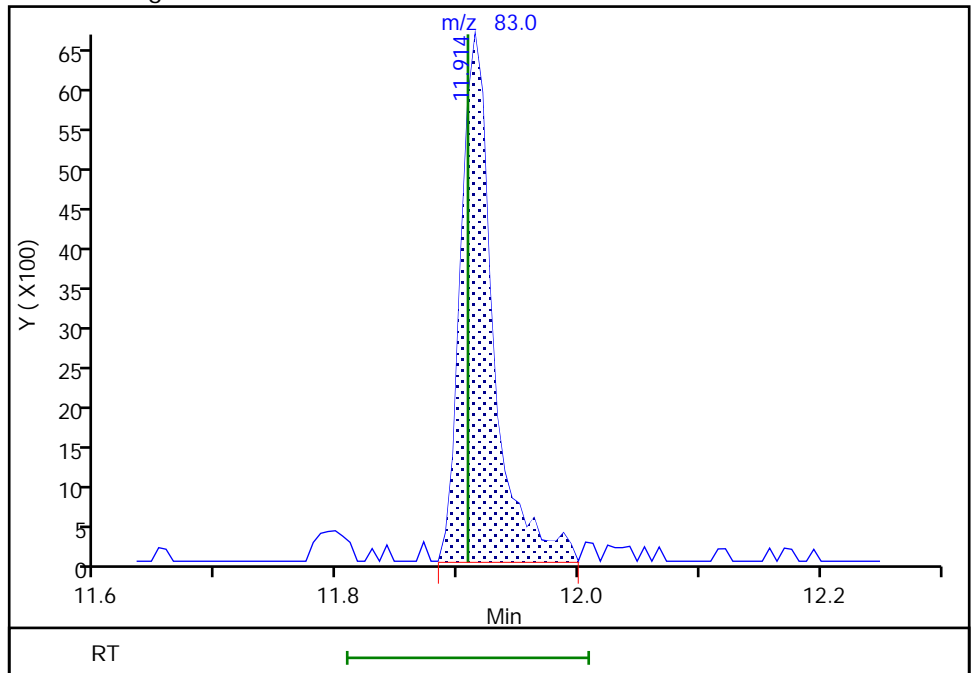
RT: 11.99
Area: 304
Amount: 0.133764
Amount Units: ug/l

Processing Integration Results



RT: 11.91
Area: 12529
Amount: 0.196789
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 03-May-2023 08:24:25 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfms\Lancaster\ChromData\10193\20230501-82854.b\CY01X13.D
 Lims ID: IC std2 0.5
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 01-May-2023 19:22:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0082854-014
 Misc. Info.: IC STD2 0.5
 Operator ID: knk41612 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfms\Lancaster\ChromData\10193\20230501-82854.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-May-2023 07:27:40 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfms\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: DVW2 Date: 02-May-2023 08:02:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.733	1.733	0.000	99	35260	0.5000	0.4843	
5 Chloromethane	50	1.898	1.898	0.000	98	45994	0.5000	0.5386	
6 Vinyl chloride	62	1.989	1.995	-0.006	83	42328	0.5000	0.5185	
7 Butadiene	39	2.001	2.008	-0.007	94	39408	0.5000	0.5193	
9 Bromomethane	94	2.276	2.282	-0.006	92	29180	0.5000	0.5246	
10 Chloroethane	64	2.337	2.337	0.000	100	25831	0.5000	0.5385	
11 Dichlorofluoromethane	67	2.556	2.556	0.000	97	60460	0.5000	0.5347	
12 Trichlorofluoromethane	101	2.617	2.605	0.012	95	49023	0.5000	0.5016	
13 Pentane	43	2.605	2.611	-0.006	97	38805	0.5000	0.4835	
14 Ethyl ether	59	2.794	2.788	0.006	91	26090	0.5000	0.5169	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.873	2.879	-0.006	92	35291	0.5000	0.5084	
17 Acrolein	56	2.940	2.934	0.006	99	167950	25.0	25.8	
18 1,1-Dichloroethene	96	3.050	3.050	0.000	97	25797	0.5000	0.5246	
20 Acetone	43	3.093	3.074	0.019	94	43563	5.00	5.89	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.080	3.093	-0.013	91	24541	0.5000	0.4914	
22 Iodomethane	142	3.215	3.215	0.000	99	53121	0.5000	0.5174	
24 Isopropyl alcohol	45	3.208	3.227	-0.019	29	17834	10.0	12.4	M
23 Ethyl bromide	108	3.239	3.239	0.000	97	25191	0.5010	0.5085	
25 Carbon disulfide	76	3.306	3.300	0.006	99	87456	0.5000	0.5114	
26 Methyl acetate	43	3.452	3.428	0.024	25	16044	0.5000	0.6762	M
29 3-Chloro-1-propene	41	3.452	3.446	0.006	90	43835	0.5000	0.4964	
30 Methylene Chloride	84	3.605	3.605	0.000	90	31232	0.5000	0.5303	
* 31 t-Butyl alcohol-d10 (IS)	65	3.654	3.672	-0.018	95	155237	50.0	50.0	
32 2-Methyl-2-propanol	59	3.763	3.769	-0.006	81	32708	10.0	11.0	
33 Acrylonitrile	53	3.946	3.910	0.036	30	14613	1.25	1.36	M
34 Methyl tert-butyl ether	73	3.958	3.952	0.006	95	88410	0.5000	0.5198	
35 trans-1,2-Dichloroethene	96	3.964	3.952	0.012	98	29673	0.5000	0.4934	
36 Hexane	57	4.336	4.349	-0.013	92	37594	0.5000	0.4923	
37 1,1-Dichloroethane	63	4.592	4.586	0.006	96	56143	0.5000	0.5159	
39 Isopropyl ether	45	4.653	4.653	0.000	93	100940	0.5000	0.5105	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.702	4.696	0.006	91	43776	0.5000	0.4961	
41 Tert-butyl ethyl ether	59	5.202	5.208	-0.006	98	103206	0.5000	0.5181	
42 2-Butanone (MEK)	43	5.440	5.409	0.031	93	75588	5.00	5.16	
43 cis-1,2-Dichloroethene	96	5.452	5.446	0.006	83	34405	0.5000	0.5234	
44 2,2-Dichloropropane	77	5.440	5.452	-0.012	70	56676	0.5000	0.5883	M
45 Propionitrile	54	5.580	5.507	0.073	97	33000	10.0	10.3	
47 Methacrylonitrile	67	5.738	5.720	0.018	91	74821	5.00	4.76	
48 Chlorobromomethane	128	5.787	5.781	0.006	92	16007	0.5000	0.5230	
49 Tetrahydrofuran	71	5.818	5.787	0.031	78	11551	2.50	2.46	
50 Chloroform	83	5.946	5.940	0.006	94	55713	0.5000	0.5118	
S 52 1,2-Dichloroethene, Total	100				0			1.02	
53 1,1,1-Trichloroethane	97	6.165	6.159	0.006	40	50532	0.5000	0.5265	
\$ 54 Dibromofluoromethane (Surr)	113	6.165	6.165	0.000	94	506048	10.0	10.0	
55 Cyclohexane	56	6.257	6.257	0.000	91	47382	0.5000	0.4859	
56 Carbon tetrachloride	117	6.373	6.373	-0.001	95	41212	0.5000	0.5016	
57 1,1-Dichloropropene	75	6.379	6.379	0.000	93	40852	0.5000	0.5024	
58 Isobutyl alcohol	41	6.647	6.604	0.043	37	14381	25.0	19.1	a
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.616	0.000	99	100392	10.0	10.1	
60 Benzene	78	6.653	6.647	0.006	95	128118	0.5000	0.5157	
61 1,2-Dichloroethane	62	6.726	6.720	0.006	96	38755	0.5000	0.5401	
64 Tert-amyl methyl ether	73	6.854	6.860	-0.006	99	95355	0.5000	0.5187	
* 65 Fluorobenzene (IS)	96	7.061	7.055	0.006	99	1943779	10.0	10.0	
66 n-Heptane	43	7.092	7.086	0.006	38	38048	0.5000	0.4767	
67 n-Butanol	56	7.726	7.531	0.195	84	11423	43.8	55.6	Ma
68 Trichloroethene	95	7.567	7.555	0.012	97	33901	0.5000	0.5146	
69 Methylcyclohexane	83	7.854	7.860	-0.006	90	49668	0.5000	0.4701	
70 1,2-Dichloropropane	63	7.897	7.891	0.006	96	32334	0.5000	0.4960	
71 2-ethoxy-2-methyl butane	87	7.921	7.927	-0.006	94	53201	0.5000	0.5086	
72 Dibromomethane	93	8.025	8.006	0.019	94	16330	0.5000	0.5067	
73 Methyl methacrylate	69	8.025	8.006	0.019	91	14007	0.5000	0.4530	
74 1,4-Dioxane	88	8.037	8.012	0.025	29	2988	25.0	18.2	M
76 Dichlorobromomethane	83	8.256	8.256	0.000	99	40733	0.5000	0.4951	
77 2-Nitropropane	41	8.543	8.543	0.000	98	24239	2.50	2.45	
78 1-Bromo-2-chloroethane	63	8.653	8.653	0.000	98	33507	0.5000	0.4896	
80 cis-1,3-Dichloropropene	75	8.835	8.829	0.006	95	49009	0.5000	0.4855	
82 4-Methyl-2-pentanone (MIBK)	43	9.043	9.037	0.006	96	197423	5.00	4.86	
\$ 83 Toluene-d8 (Surr)	98	9.165	9.165	0.000	93	2171926	10.0	9.97	
84 Toluene	92	9.256	9.250	0.006	98	86488	0.5000	0.5150	
85 trans-1,3-Dichloropropene	75	9.573	9.555	0.018	94	38401	0.5000	0.4572	
86 Ethyl methacrylate	69	9.652	9.634	0.018	89	31928	0.5000	0.4696	
87 1,1,2-Trichloroethane	97	9.774	9.768	0.006	91	25687	0.5000	0.5143	
88 Tetrachloroethene	166	9.854	9.854	0.000	98	40899	0.5000	0.5158	
89 1,3-Dichloropropane	76	9.951	9.945	0.006	92	39718	0.5000	0.4938	
106 2-Hexanone	43	10.030	10.018	0.012	97	117436	5.00	4.43	
S 107 1,3-Dichloropropene, Total	100				0			0.9427	
108 Chlorodibromomethane	129	10.171	10.171	0.000	90	30500	0.5000	0.4851	
110 Ethylene Dibromide	107	10.292	10.280	0.012	98	23841	0.5000	0.5071	
* 111 Chlorobenzene-d5 (IS)	117	10.744	10.743	0.001	85	1823359	10.0	10.0	
112 1-Chlorohexane	91	10.768	10.768	0.000	95	47372	0.5000	0.4946	
113 Chlorobenzene	112	10.774	10.774	0.000	97	102941	0.5000	0.5151	
114 1,1,1,2-Tetrachloroethane	131	10.866	10.859	0.007	95	34472	0.5000	0.4965	
115 Ethylbenzene	91	10.872	10.866	0.006	98	164325	0.5000	0.5072	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	10.994	10.987	0.007	97	132245	1.00	1.01	
S 117 Xylenes, Total	106				0			1.52	
118 o-Xylene	106	11.335	11.335	0.000	97	66998	0.5000	0.5158	
119 Styrene	104	11.359	11.353	0.006	95	104932	0.5000	0.4946	
120 Bromoform	173	11.512	11.506	0.006	97	19481	0.5000	0.4910	
121 Isopropylbenzene	105	11.646	11.646	0.000	96	172814	0.5000	0.5183	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.792	0.000	93	919881	10.0	9.88	
125 Bromobenzene	156	11.908	11.908	0.000	92	44961	0.5000	0.5156	
126 1,1,2,2-Tetrachloroethane	83	11.914	11.908	0.006	89	32088	0.5000	0.5070	
127 trans-1,4-Dichloro-2-butene	53	11.945	11.932	0.013	90	65451	5.00	4.31	
128 1,2,3-Trichloropropane	110	11.957	11.951	0.006	77	8164	0.5000	0.4904	
129 N-Propylbenzene	91	11.987	11.987	0.000	99	195794	0.5000	0.5042	
130 2-Chlorotoluene	126	12.067	12.060	0.006	97	43676	0.5000	0.5206	
131 1,3,5-Trimethylbenzene	105	12.134	12.134	0.000	94	149932	0.5000	0.5149	
132 4-Chlorotoluene	126	12.164	12.158	0.006	97	44763	0.5000	0.5174	
133 tert-Butylbenzene	134	12.377	12.377	0.000	93	35604	0.5000	0.5323	
134 Pentachloroethane	167	12.402	12.408	-0.006	88	27144	0.5000	0.4971	
135 1,2,4-Trimethylbenzene	105	12.426	12.420	0.006	97	148758	0.5000	0.4951	
136 sec-Butylbenzene	105	12.542	12.542	0.000	94	186251	0.5000	0.5047	
137 1,3-Dichlorobenzene	146	12.646	12.640	0.006	98	83617	0.5000	0.4937	
138 4-Isopropyltoluene	119	12.658	12.658	0.000	97	167879	0.5000	0.5090	
* 139 1,4-Dichlorobenzene-d4	152	12.701	12.700	0.001	94	1130639	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.719	12.719	0.000	96	84167	0.5000	0.4935	
141 1,2,3-Trimethylbenzene	120	12.731	12.731	0.000	98	71815	0.5000	0.5158	
142 Benzyl chloride	126	12.810	12.798	0.012	98	10917	0.5000	0.4240	
145 p-Diethylbenzene	119	12.938	12.932	0.006	94	102841	0.5000	0.5063	
143 n-Butylbenzene	92	12.957	12.957	0.000	97	74713	0.5000	0.4869	
144 1,2-Dichlorobenzene	146	12.987	12.981	0.006	99	80550	0.5000	0.5096	
148 1,2-Dibromo-3-Chloropropane	155	13.548	13.536	0.012	84	4012	0.5000	0.4697	
149 1,3,5-Trichlorobenzene	180	13.670	13.664	0.006	97	66748	0.5000	0.5024	
150 1,2,4-Trichlorobenzene	180	14.103	14.091	0.012	94	47499	0.5000	0.4682	
151 Hexachlorobutadiene	225	14.176	14.176	0.000	96	30257	0.5000	0.5064	
152 Naphthalene	128	14.286	14.273	0.013	97	72423	0.5000	0.4454	
153 1,2,3-Trichlorobenzene	180	14.426	14.420	0.006	95	38550	0.5000	0.4802	
154 2-Methylnaphthalene	142	15.035	15.017	0.018	91	23662	0.5000	0.5037	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00075

Amount Added: 2.00

Units: uL

MSV_LL_#2_826_00083

Amount Added: 2.00

Units: uL

MSV_LL_GAS826_00148

Amount Added: 2.00

Units: uL

MSV_HP25_ISSS_00068

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X13.D

Injection Date: 01-May-2023 19:22:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: IC std2 0.5

Worklist Smp#: 14

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

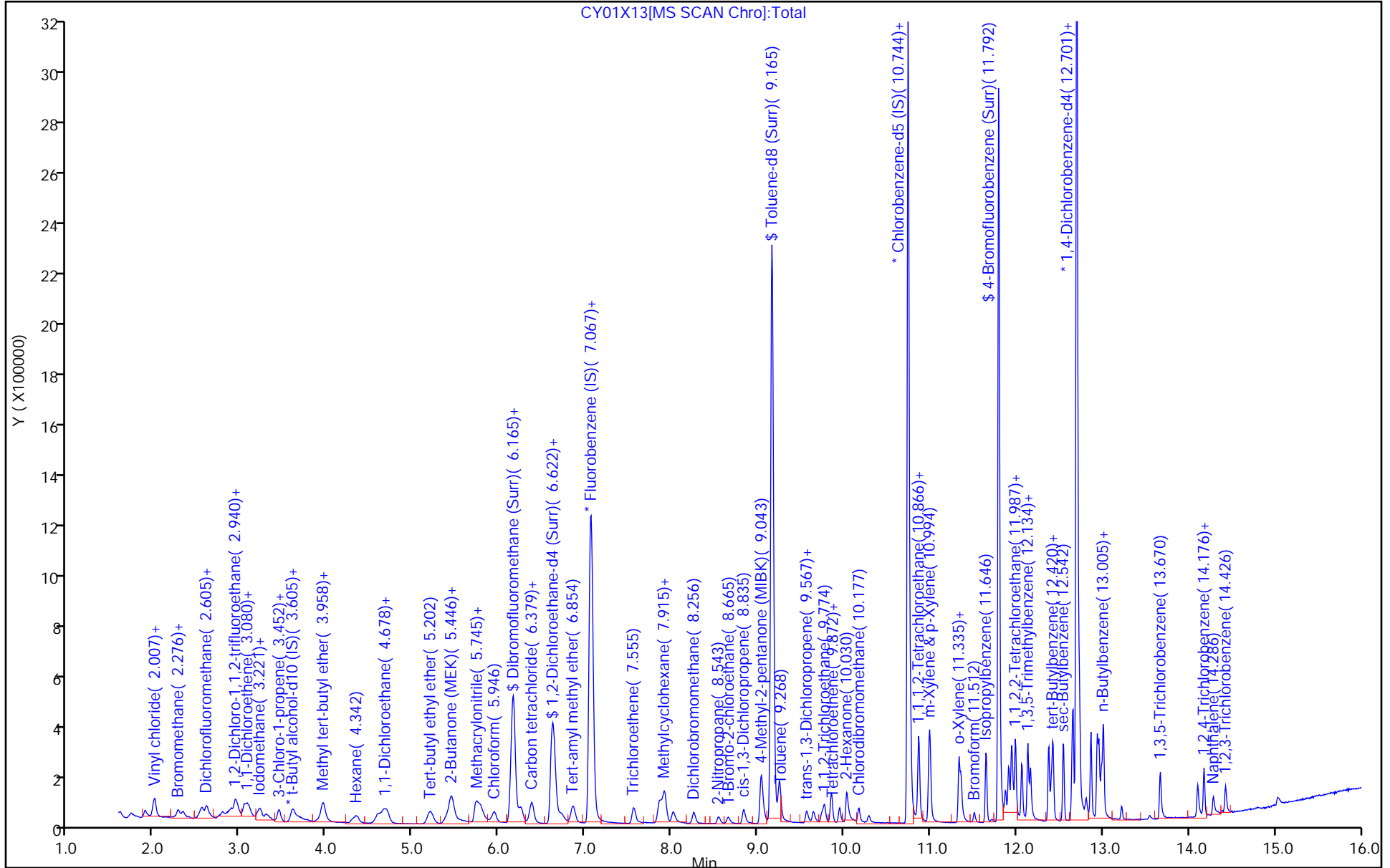
ALS Bottle#: 13

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

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



Eurofins Lancaster Laboratories Environment Testing, LLC

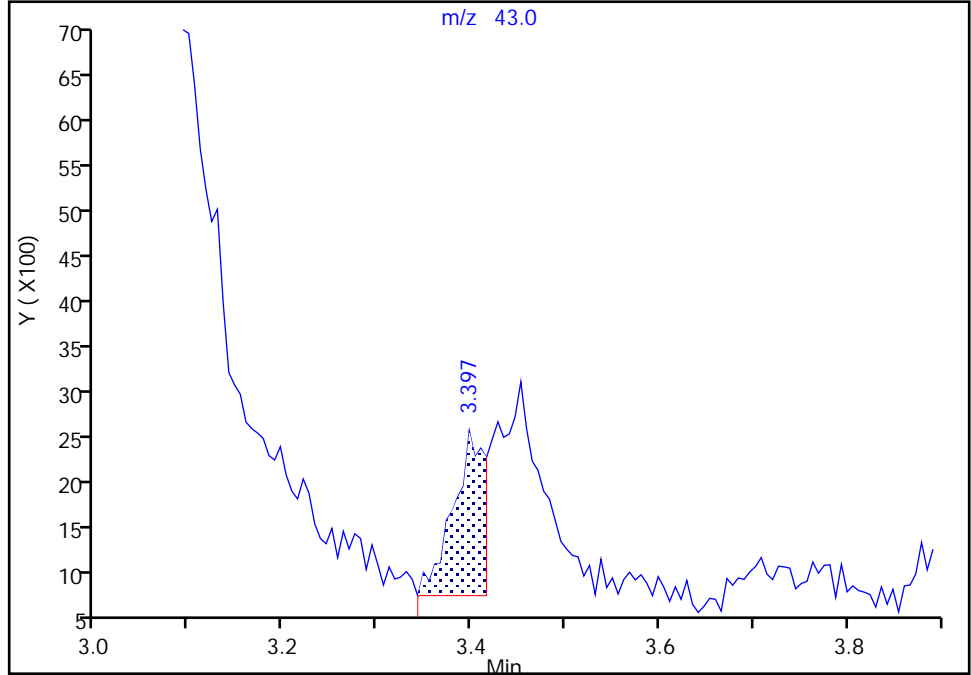
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Injection Date: 01-May-2023 19:22:30 Instrument ID: 10193
Lims ID: IC std2 0.5
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

26 Methyl acetate, CAS: 79-20-9

Signal: 1

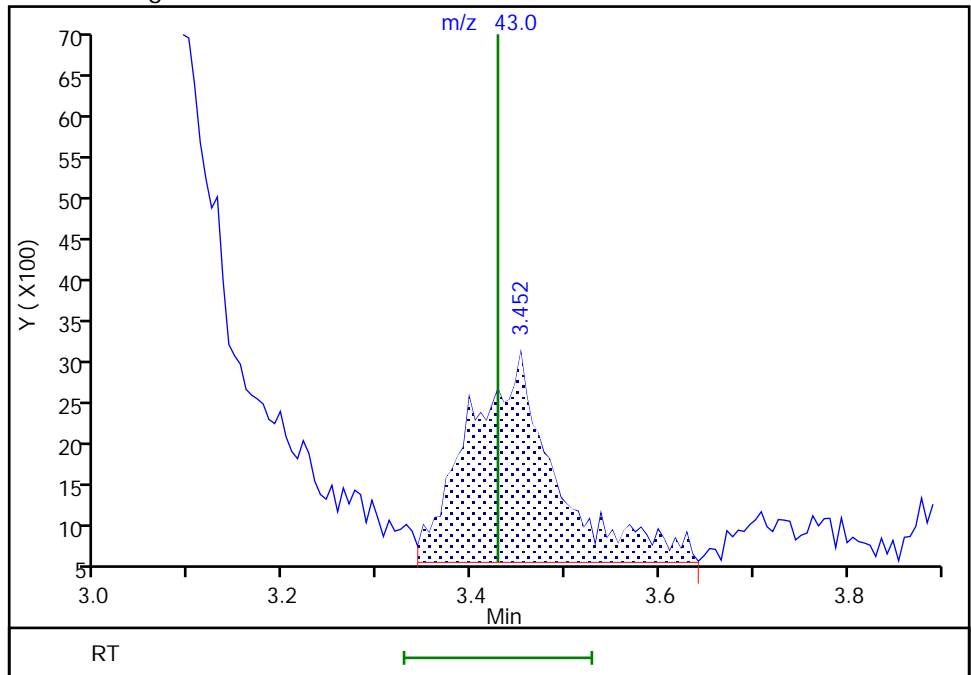
RT: 3.40
Area: 4226
Amount: 0.200907
Amount Units: ug/l

Processing Integration Results



RT: 3.45
Area: 16044
Amount: 0.676239
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 08:00:32 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

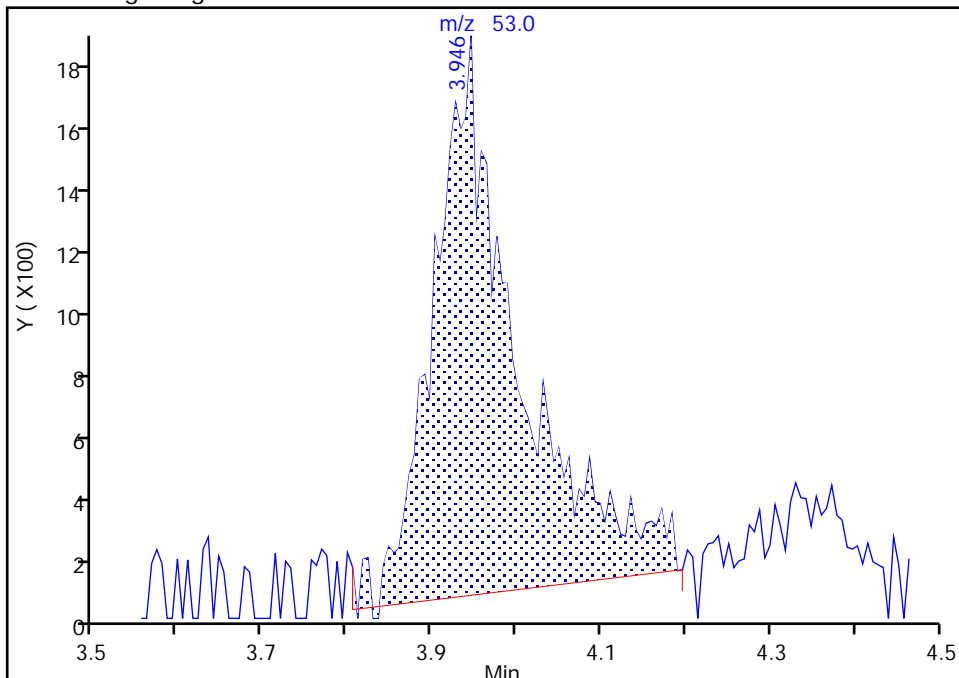
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Injection Date: 01-May-2023 19:22:30 Instrument ID: 10193
Lims ID: IC std2 0.5
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

33 Acrylonitrile, CAS: 107-13-1

Signal: 1

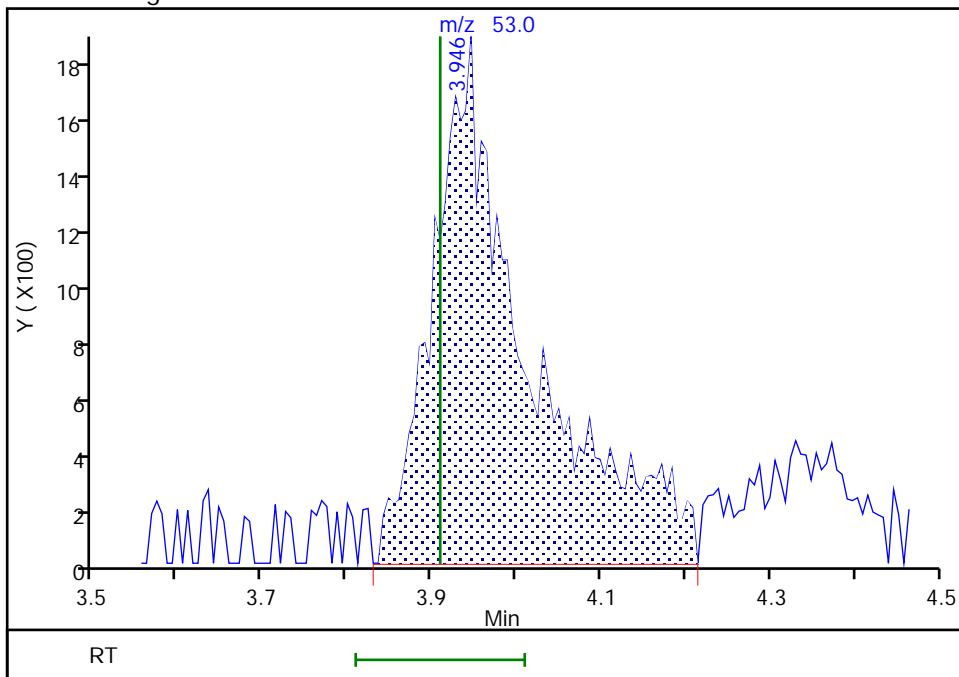
RT: 3.95
Area: 12449
Amount: 1.161579
Amount Units: ug/l

Processing Integration Results



RT: 3.95
Area: 14613
Amount: 1.363432
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 08:00:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

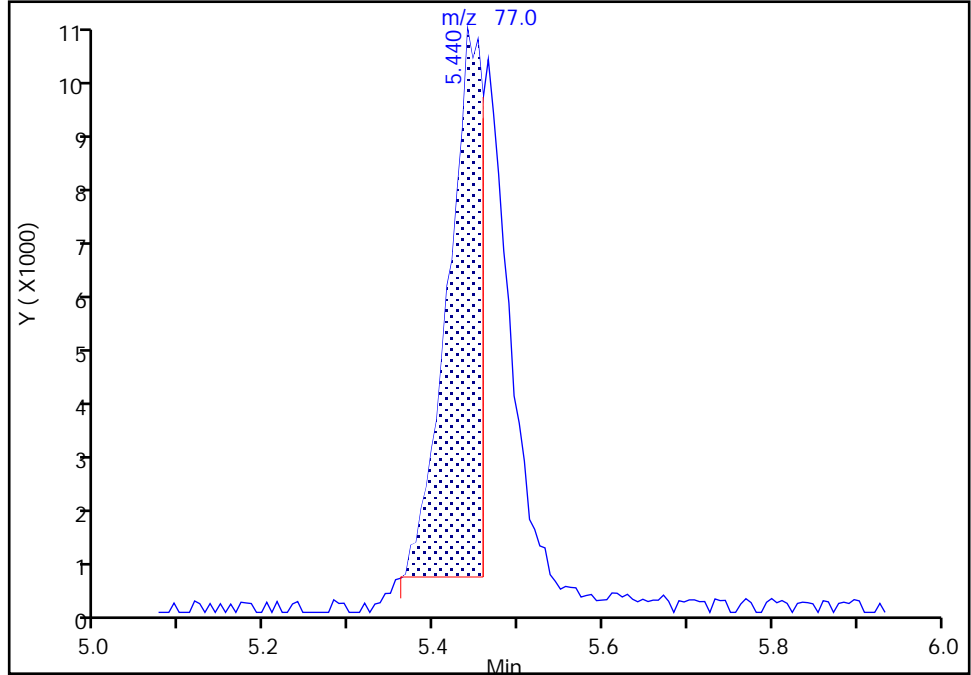
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Injection Date: 01-May-2023 19:22:30 Instrument ID: 10193
Lims ID: IC std2 0.5
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

44 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

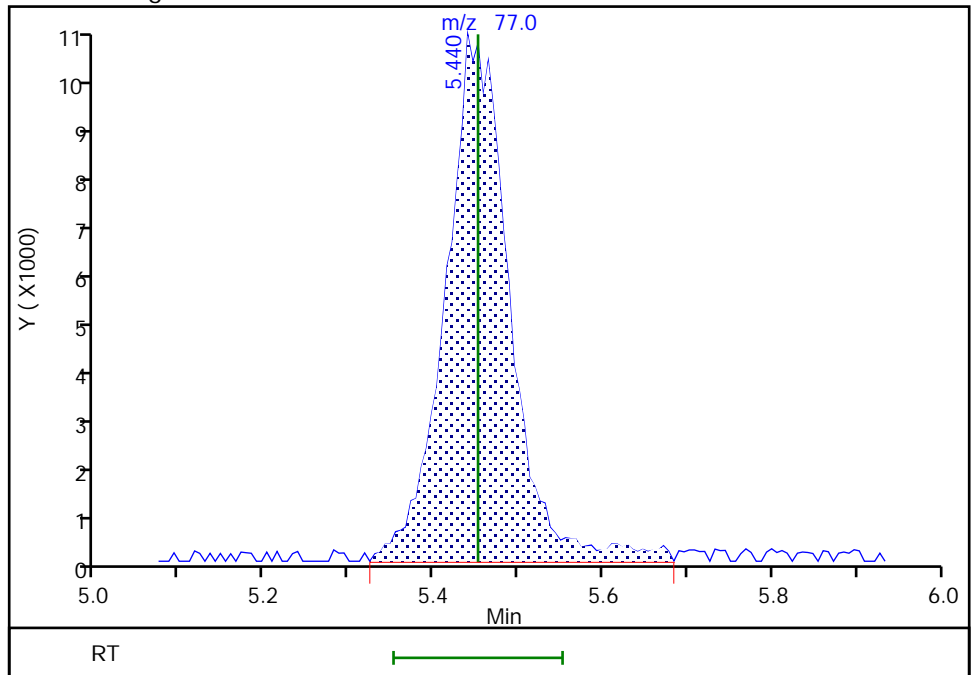
RT: 5.44
Area: 28847
Amount: 0.350414
Amount Units: ug/l

Processing Integration Results



RT: 5.44
Area: 56676
Amount: 0.588257
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 08:01:03 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

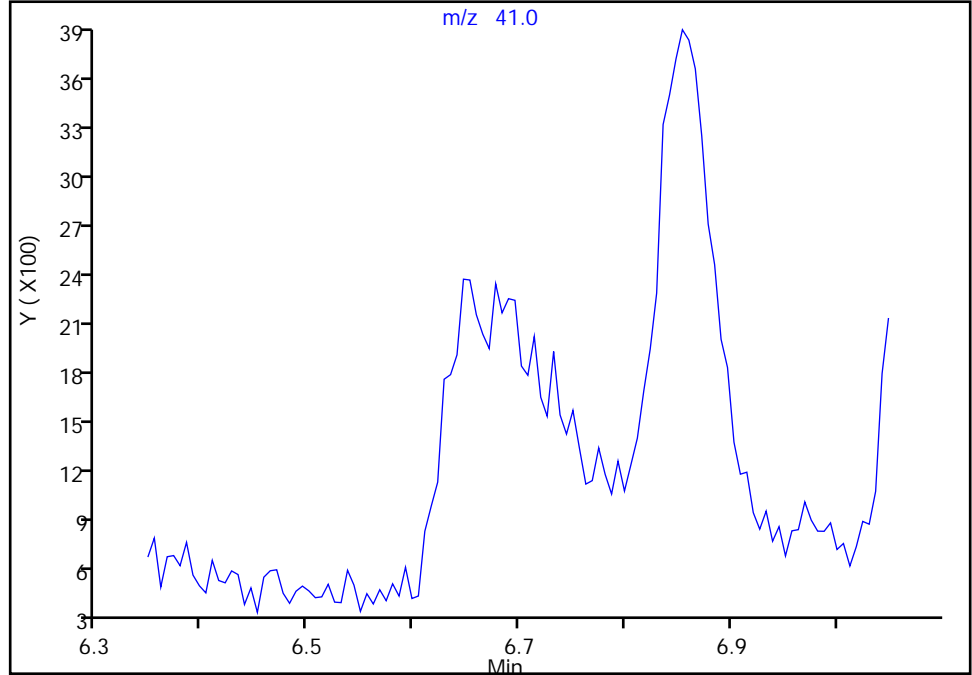
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Injection Date: 01-May-2023 19:22:30 Instrument ID: 10193
Lims ID: IC std2 0.5
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

58 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

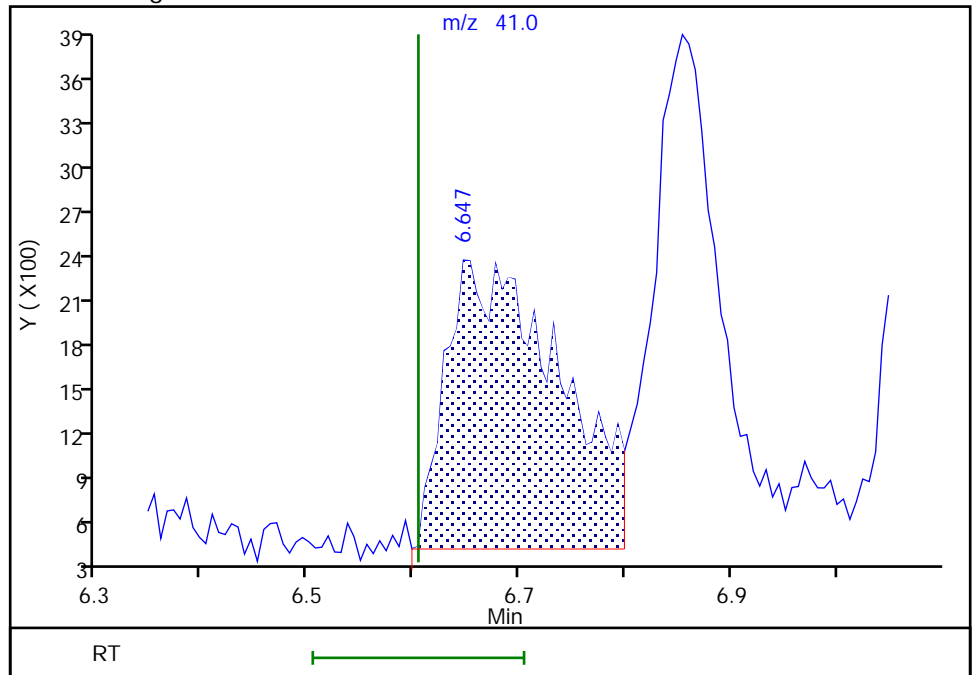
Not Detected
Expected RT: 6.60

Processing Integration Results



Manual Integration Results

RT: 6.65
Area: 14381
Amount: 19.132210
Amount Units: ug/l



Reviewer: DVW2, 02-May-2023 08:01:15 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

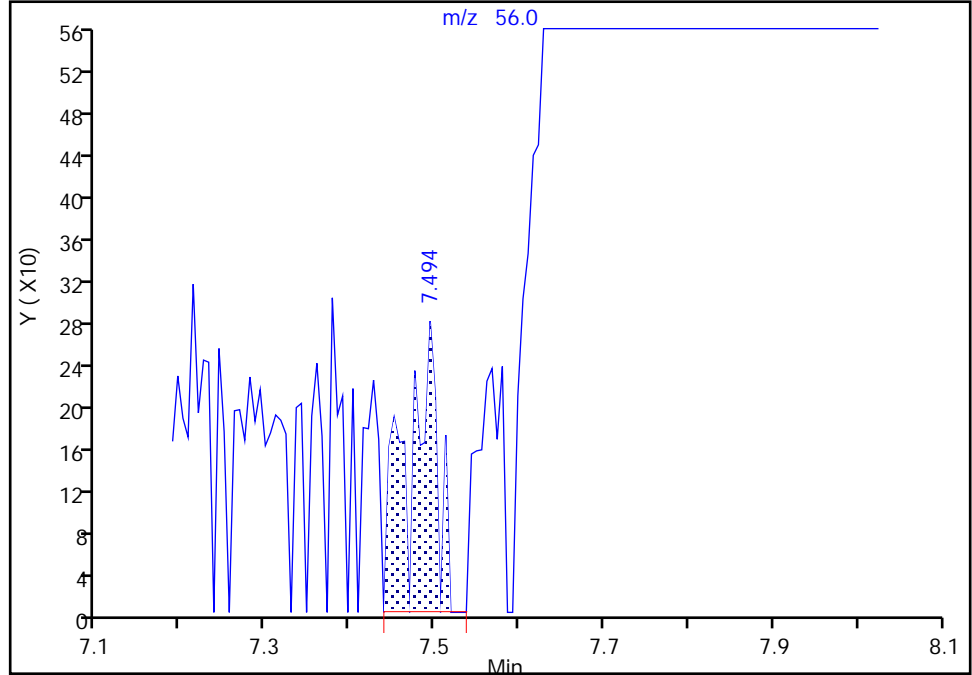
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Injection Date: 01-May-2023 19:22:30 Instrument ID: 10193
Lims ID: IC std2 0.5
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

67 n-Butanol, CAS: 71-36-3

Signal: 1

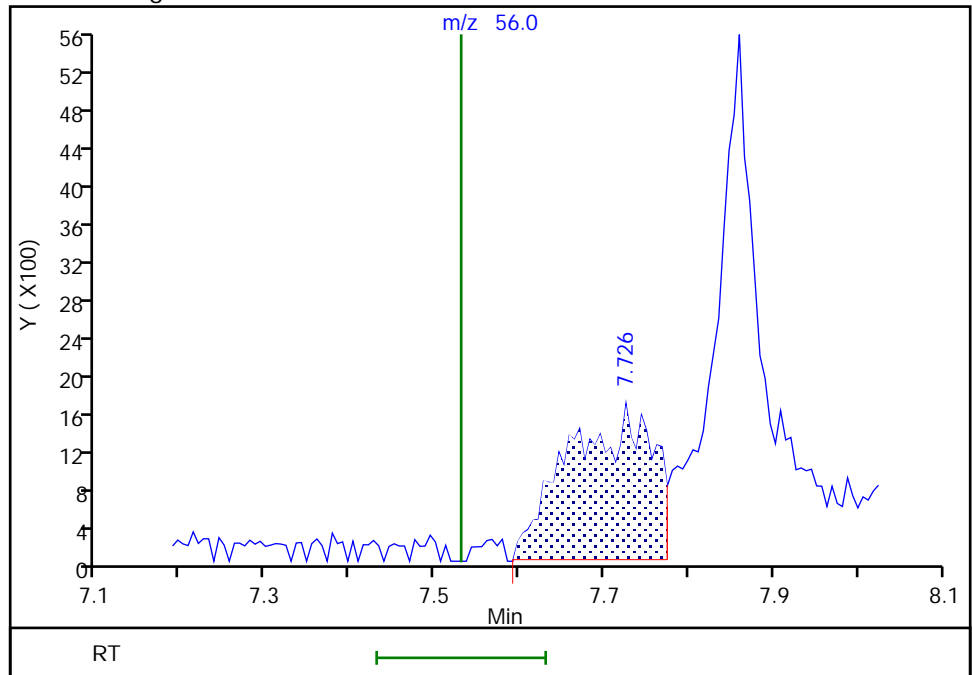
RT: 7.49
Area: 681
Amount: 1.503188
Amount Units: ug/l

Processing Integration Results



RT: 7.73
Area: 11423
Amount: 55.632069
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 08:01:42 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

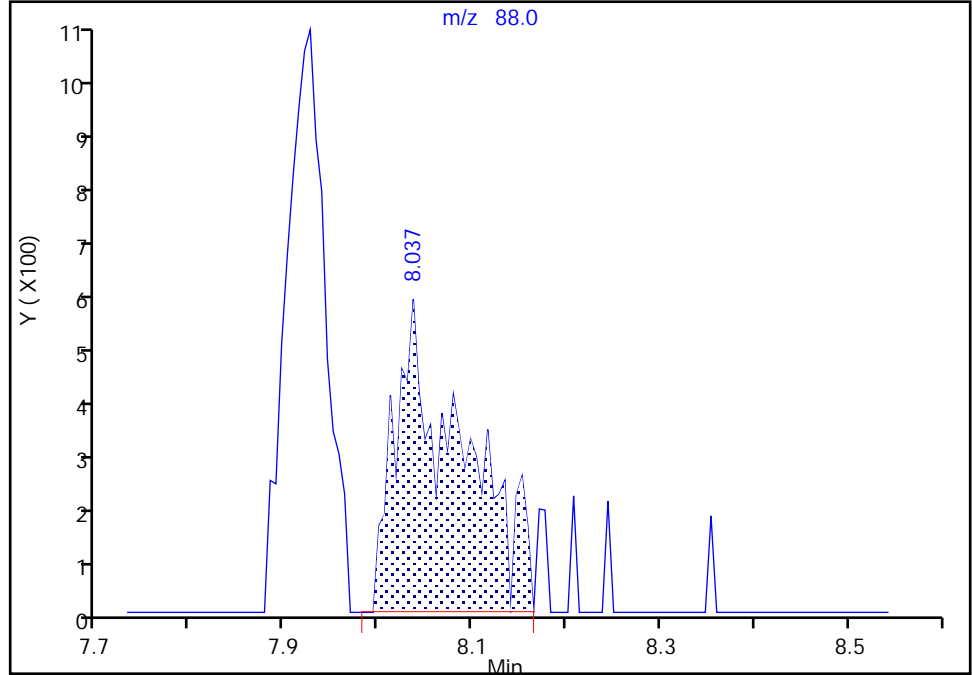
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 Injection Date: 01-May-2023 19:22:30 Instrument ID: 10193
 Lims ID: IC std2 0.5
 Client ID:
 Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
 Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

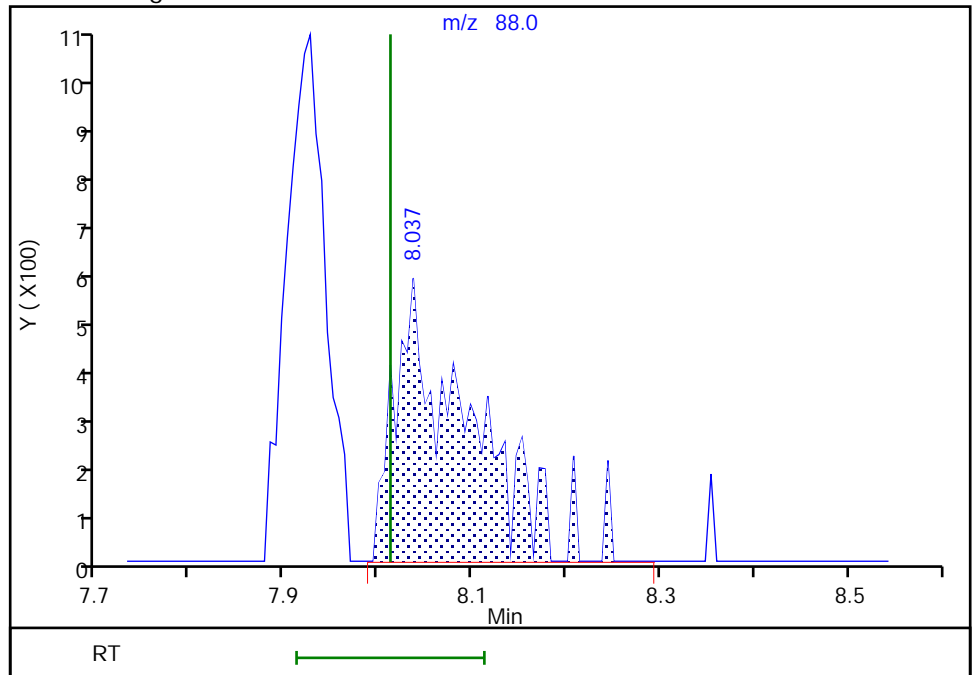
RT: 8.04
 Area: 2711
 Amount: 22.353886
 Amount Units: ug/l

Processing Integration Results



RT: 8.04
 Area: 2988
 Amount: 18.168202
 Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 08:01:54 -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\10193\20230501-82854.b\CY01X14.D
 Lims ID: IC std3 1
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 01-May-2023 19:45:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0082854-015
 Misc. Info.: IC STD3 1
 Operator ID: knk41612 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-May-2023 07:27:44 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: DVW2

Date: 02-May-2023 08:03:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.721	1.733	-0.012	99	75329	1.00	1.03	Ma
5 Chloromethane	50	1.898	1.898	0.000	99	86308	1.00	1.00	
6 Vinyl chloride	62	1.995	1.995	0.000	83	82343	1.00	1.00	
7 Butadiene	39	2.001	2.008	-0.007	91	77891	1.00	1.02	
9 Bromomethane	94	2.276	2.282	-0.006	91	53433	1.00	0.9534	
10 Chloroethane	64	2.337	2.337	0.000	100	48356	1.00	1.00	
11 Dichlorofluoromethane	67	2.550	2.556	-0.006	97	112373	1.00	0.9863	
12 Trichlorofluoromethane	101	2.605	2.605	0.000	94	99807	1.00	1.01	
13 Pentane	43	2.611	2.611	0.000	96	84740	1.00	1.05	
14 Ethyl ether	59	2.788	2.788	0.000	90	50635	1.00	1.00	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.873	2.879	-0.006	92	69709	1.00	1.00	
17 Acrolein	56	2.940	2.934	0.006	99	330654	50.0	50.1	
18 1,1-Dichloroethene	96	3.044	3.050	-0.006	97	50235	1.00	1.01	
20 Acetone	43	3.080	3.074	0.006	96	76743	10.0	10.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.086	3.093	-0.007	91	53477	1.00	1.06	
22 Iodomethane	142	3.214	3.215	-0.001	98	105913	1.00	1.02	
24 Isopropyl alcohol	45	3.202	3.227	-0.025	34	27234	20.0	18.7	
23 Ethyl bromide	108	3.233	3.239	-0.006	98	48137	1.00	0.9644	
25 Carbon disulfide	76	3.306	3.300	0.006	100	179296	1.00	1.04	
26 Methyl acetate	43	3.434	3.428	0.006	36	22568	1.00	0.9374	
29 3-Chloro-1-propene	41	3.440	3.446	-0.006	91	90962	1.00	1.02	
30 Methylene Chloride	84	3.611	3.605	0.006	93	60652	1.00	1.02	
* 31 t-Butyl alcohol-d10 (IS)	65	3.647	3.672	-0.025	97	157531	50.0	50.0	
32 2-Methyl-2-propanol	59	3.757	3.769	-0.012	98	60220	20.0	19.9	
33 Acrylonitrile	53	3.934	3.910	0.024	30	28347	2.50	2.61	
34 Methyl tert-butyl ether	73	3.952	3.952	0.000	94	173753	1.00	1.01	
35 trans-1,2-Dichloroethene	96	3.952	3.952	0.000	99	62065	1.00	1.02	
36 Hexane	57	4.342	4.349	-0.007	92	82583	1.00	1.07	
37 1,1-Dichloroethane	63	4.586	4.586	0.000	96	110627	1.00	1.01	
39 Isopropyl ether	45	4.653	4.653	0.000	92	201601	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
40 2-Chloro-1,3-butadiene	53	4.702	4.696	0.006	90	90007	1.00	1.01	
41 Tert-butyl ethyl ether	59	5.202	5.208	-0.006	97	201922	1.00	1.01	
42 2-Butanone (MEK)	43	5.434	5.409	0.025	99	142643	10.0	9.59	
43 cis-1,2-Dichloroethene	96	5.446	5.446	0.000	82	67560	1.00	1.02	
44 2,2-Dichloropropane	77	5.440	5.452	-0.012	69	97552	1.00	1.00	
45 Propionitrile	54	5.543	5.507	0.036	98	66269	20.0	20.4	
47 Methacrylonitrile	67	5.726	5.720	0.006	92	160456	10.0	10.1	
48 Chlorobromomethane	128	5.781	5.781	0.000	90	31835	1.00	1.03	
49 Tetrahydrofuran	71	5.805	5.787	0.018	60	23525	5.00	4.95	
50 Chloroform	83	5.940	5.940	0.000	94	113083	1.00	1.03	
S 52 1,2-Dichloroethene, Total	100				0			2.04	
53 1,1,1-Trichloroethane	97	6.159	6.159	0.000	45	98307	1.00	1.02	
\$ 54 Dibromofluoromethane (Surr)	113	6.165	6.165	0.000	94	515525	10.0	10.1	
55 Cyclohexane	56	6.257	6.257	0.000	90	105836	1.00	1.08	
56 Carbon tetrachloride	117	6.372	6.373	-0.001	96	84964	1.00	1.03	
57 1,1-Dichloropropene	75	6.379	6.379	-0.001	96	84119	1.00	1.03	
58 Isobutyl alcohol	41	6.628	6.604	0.024	36	31008	50.0	40.7	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.622	6.616	0.006	99	103800	10.0	10.3	
60 Benzene	78	6.641	6.647	-0.006	96	253280	1.00	1.01	
61 1,2-Dichloroethane	62	6.726	6.720	0.006	97	73765	1.00	1.02	
64 Tert-amyl methyl ether	73	6.860	6.860	0.000	98	187225	1.00	1.01	
* 65 Fluorobenzene (IS)	96	7.067	7.055	0.012	99	1958541	10.0	10.0	
66 n-Heptane	43	7.080	7.086	-0.006	93	85888	1.00	1.07	
67 n-Butanol	56	7.616	7.531	0.085	88	33572	87.5	82.9	M
68 Trichloroethene	95	7.555	7.555	0.000	97	67739	1.00	1.02	
69 Methylcyclohexane	83	7.860	7.860	0.000	89	114284	1.00	1.07	
70 1,2-Dichloropropane	63	7.890	7.891	-0.001	96	66746	1.00	1.02	
71 2-ethoxy-2-methyl butane	87	7.921	7.927	-0.006	94	105508	1.00	1.00	
72 Dibromomethane	93	8.018	8.006	0.012	92	32036	1.00	0.9866	
73 Methyl methacrylate	69	8.018	8.006	0.012	90	29794	1.00	0.9495	
74 1,4-Dioxane	88	8.037	8.012	0.025	31	8069	50.0	48.3	
76 Dichlorobromomethane	83	8.262	8.256	0.006	99	83007	1.00	1.00	
77 2-Nitropropane	41	8.543	8.543	0.000	99	48215	5.00	4.81	
78 1-Bromo-2-chloroethane	63	8.659	8.653	0.006	99	66322	1.00	0.9617	
80 cis-1,3-Dichloropropene	75	8.835	8.829	0.006	96	101889	1.00	1.00	
82 4-Methyl-2-pentanone (MIBK)	43	9.037	9.037	0.000	97	407566	10.0	9.88	
\$ 83 Toluene-d8 (Surr)	98	9.165	9.165	0.000	93	2196273	10.0	9.93	
84 Toluene	92	9.250	9.250	0.000	98	171834	1.00	1.01	
85 trans-1,3-Dichloropropene	75	9.561	9.555	0.006	93	80882	1.00	0.9479	
86 Ethyl methacrylate	69	9.640	9.634	0.006	89	63794	1.00	0.9236	
87 1,1,2-Trichloroethane	97	9.774	9.768	0.006	90	47902	1.00	0.9441	
88 Tetrachloroethene	166	9.853	9.854	-0.001	98	82112	1.00	1.02	
89 1,3-Dichloropropane	76	9.945	9.945	0.000	91	81370	1.00	1.00	
106 2-Hexanone	43	10.030	10.018	0.012	95	260259	10.0	9.68	
S 107 1,3-Dichloropropene, Total	100				0			1.95	
108 Chlorodibromomethane	129	10.170	10.171	-0.001	90	63048	1.00	0.9871	
110 Ethylene Dibromide	107	10.286	10.280	0.006	98	46346	1.00	0.9703	
* 111 Chlorobenzene-d5 (IS)	117	10.744	10.743	0.001	85	1852391	10.0	10.0	
112 1-Chlorohexane	91	10.768	10.768	0.000	97	97782	1.00	1.00	
113 Chlorobenzene	112	10.774	10.774	0.000	97	204459	1.00	1.01	
114 1,1,1,2-Tetrachloroethane	131	10.859	10.859	0.000	94	71592	1.00	1.01	
115 Ethylbenzene	91	10.872	10.866	0.006	98	328788	1.00	1.00	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	10.993	10.987	0.006	97	266455	2.00	2.00	
S 117 Xylenes, Total	106				0			2.99	
118 o-Xylene	106	11.335	11.335	0.000	97	130576	1.00	0.9895	
119 Styrene	104	11.353	11.353	0.000	95	210503	1.00	0.9767	
120 Bromoform	173	11.512	11.506	0.006	98	38636	1.00	0.9585	
121 Isopropylbenzene	105	11.646	11.646	0.000	96	337599	1.00	1.00	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.792	0.000	94	929361	10.0	9.83	
125 Bromobenzene	156	11.908	11.908	0.000	95	89476	1.00	1.00	
126 1,1,2,2-Tetrachloroethane	83	11.908	11.908	0.000	93	62481	1.00	0.9631	
127 trans-1,4-Dichloro-2-butene	53	11.938	11.932	0.006	92	147995	10.0	9.50	
128 1,2,3-Trichloropropane	110	11.951	11.951	0.000	76	17013	1.00	1.00	
129 N-Propylbenzene	91	11.987	11.987	0.000	98	407043	1.00	1.02	
130 2-Chlorotoluene	126	12.060	12.060	0.000	97	84532	1.00	0.9830	
131 1,3,5-Trimethylbenzene	105	12.133	12.134	-0.001	94	299155	1.00	1.00	
132 4-Chlorotoluene	126	12.164	12.158	0.006	97	84788	1.00	0.9561	
133 tert-Butylbenzene	134	12.377	12.377	0.000	93	70749	1.00	1.03	
134 Pentachloroethane	167	12.408	12.408	0.000	82	53730	1.00	0.9600	
135 1,2,4-Trimethylbenzene	105	12.420	12.420	0.000	97	306816	1.00	1.00	
136 sec-Butylbenzene	105	12.542	12.542	0.000	94	384327	1.00	1.02	
137 1,3-Dichlorobenzene	146	12.646	12.640	0.006	98	171093	1.00	0.9856	
138 4-Isopropyltoluene	119	12.658	12.658	0.000	97	335086	1.00	0.99	
* 139 1,4-Dichlorobenzene-d4	152	12.700	12.700	0.000	94	1158894	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.719	12.719	0.000	96	179100	1.00	1.02	
141 1,2,3-Trimethylbenzene	120	12.731	12.731	0.000	98	138288	1.00	0.9691	
142 Benzyl chloride	126	12.804	12.798	0.006	98	25411	1.00	0.9628	
145 p-Diethylbenzene	119	12.938	12.932	0.006	96	201211	1.00	0.9665	
143 n-Butylbenzene	92	12.956	12.957	-0.001	97	155533	1.00	0.9888	
144 1,2-Dichlorobenzene	146	12.987	12.981	0.006	99	159443	1.00	0.9842	
148 1,2-Dibromo-3-Chloropropane	155	13.542	13.536	0.006	87	8022	1.00	0.9162	
149 1,3,5-Trichlorobenzene	180	13.670	13.664	0.006	98	133394	1.00	0.9795	
150 1,2,4-Trichlorobenzene	180	14.103	14.091	0.012	94	99494	1.00	0.9568	
151 Hexachlorobutadiene	225	14.176	14.176	0.000	97	60781	1.00	0.99	
152 Naphthalene	128	14.279	14.273	0.006	97	155856	1.00	0.9352	
153 1,2,3-Trichlorobenzene	180	14.426	14.420	0.006	95	77988	1.00	0.9478	
154 2-Methylnaphthalene	142	15.029	15.017	0.012	92	53341	1.00	0.8445	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00075

Amount Added: 2.00

Units: uL

MSV_LL_#2_826_00083

Amount Added: 2.00

Units: uL

MSV_LL_GAS826_00148

Amount Added: 2.00

Units: uL

MSV_HP25_ISSS_00068

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X14.D

Injection Date: 01-May-2023 19:45:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: IC std3 1

Worklist Smp#: 15

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

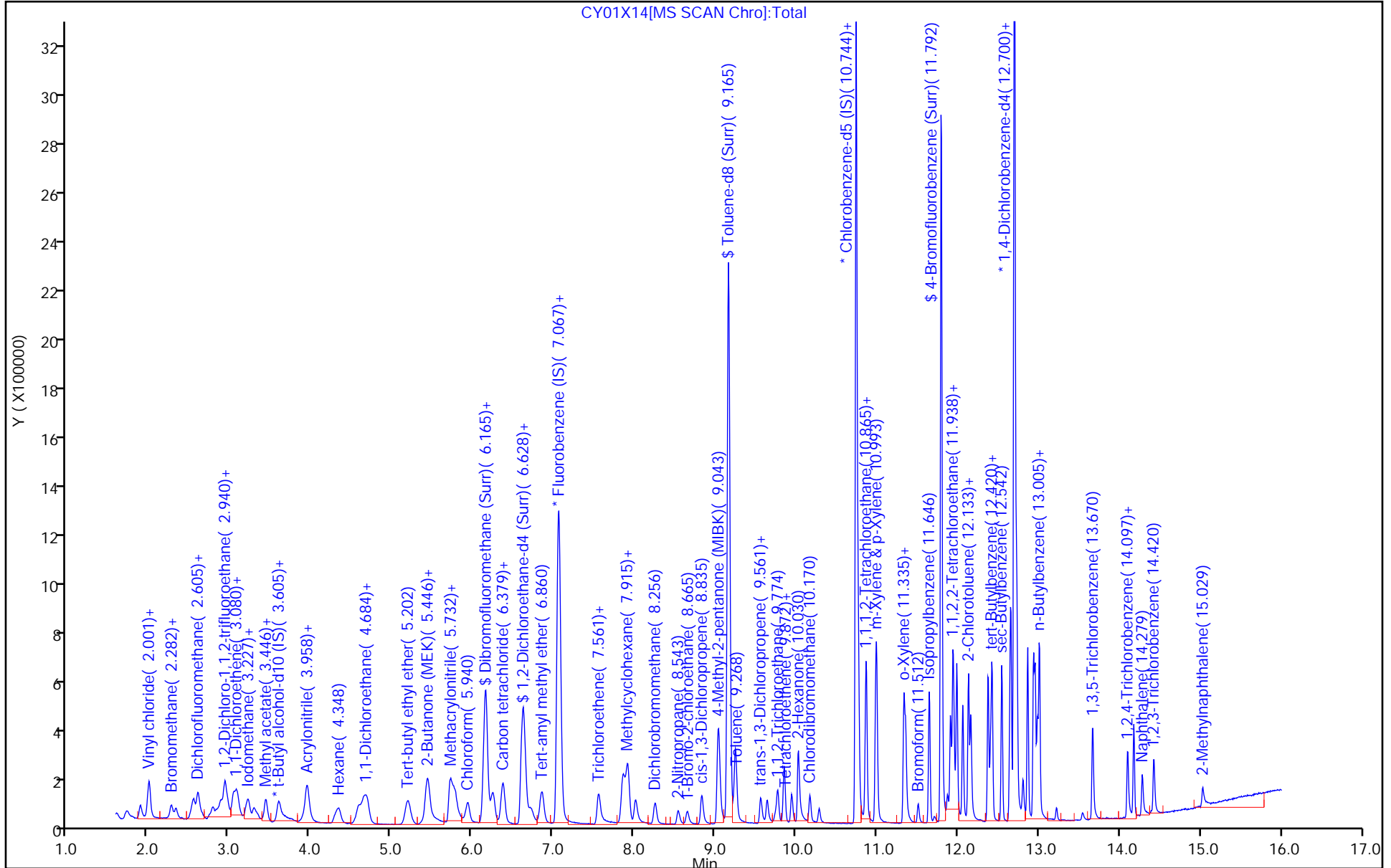
ALS Bottle#: 14

Method: MSV_10193_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

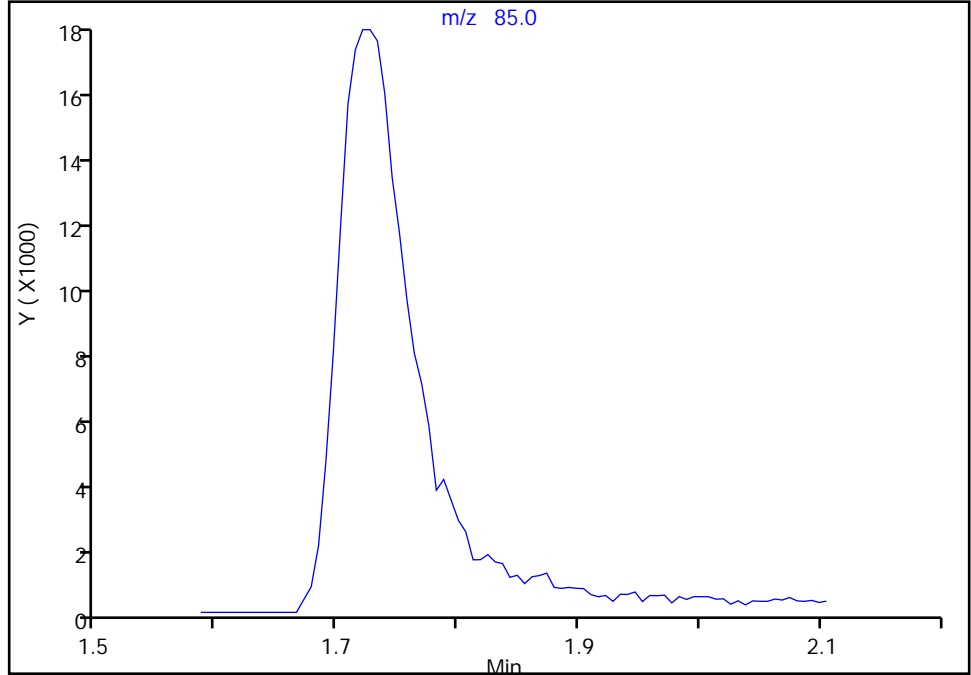
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X14.D
Injection Date: 01-May-2023 19:45:30 Instrument ID: 10193
Lims ID: IC std3 1
Client ID:
Operator ID: knk41612 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

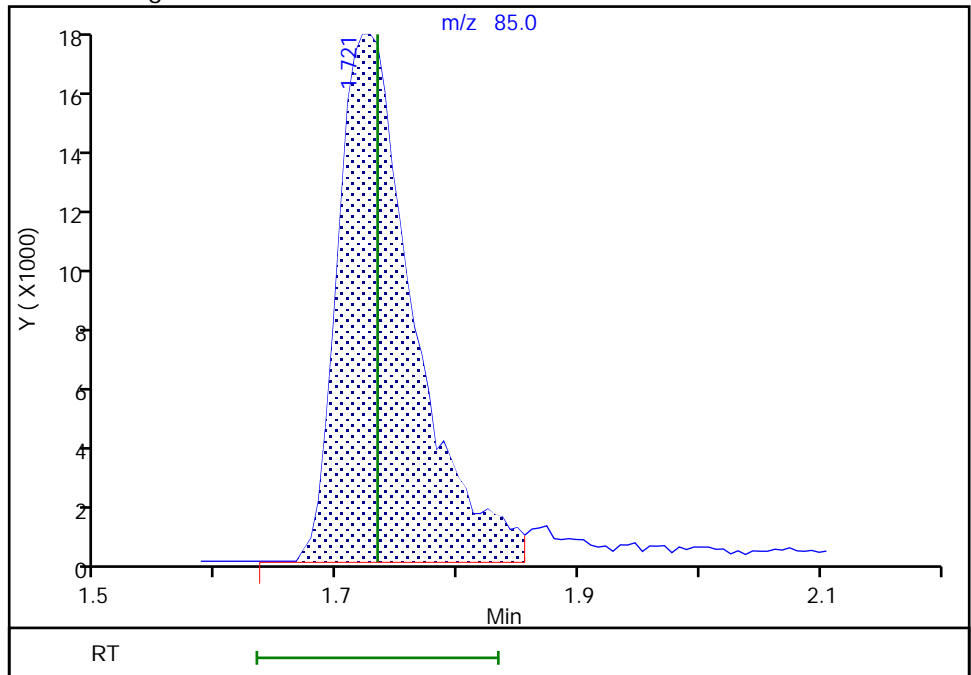
Not Detected
Expected RT: 1.73

Processing Integration Results



Manual Integration Results

RT: 1.72
Area: 75329
Amount: 1.026846
Amount Units: ug/l



Reviewer: DVW2, 02-May-2023 08:02:37 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

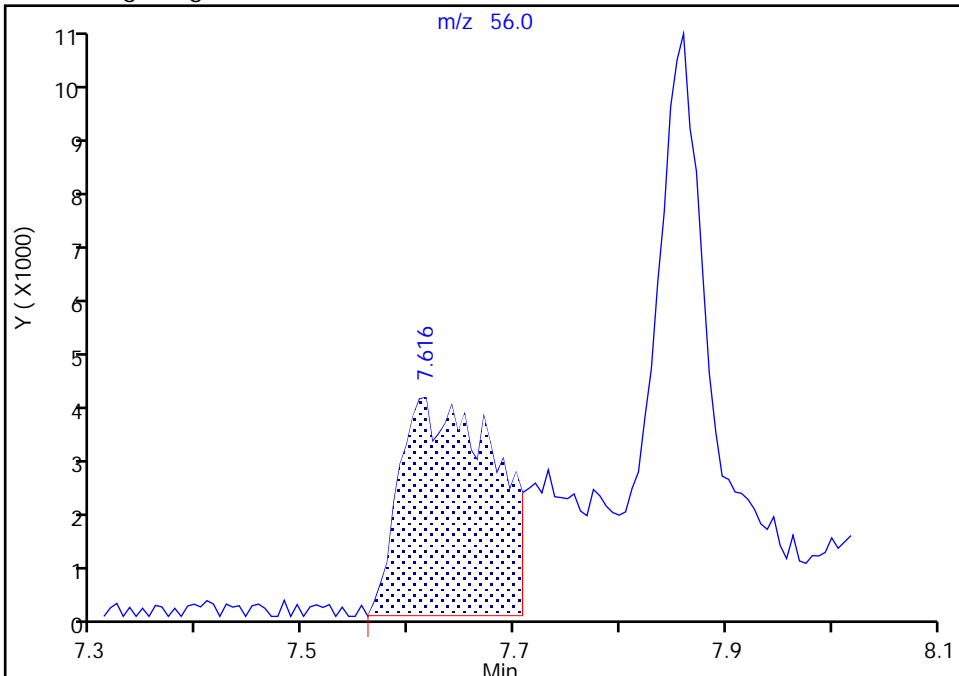
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 Injection Date: 01-May-2023 19:45:30 Instrument ID: 10193
 Lims ID: IC std3 1
 Client ID:
 Operator ID: knk41612 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
 Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

67 n-Butanol, CAS: 71-36-3

Signal: 1

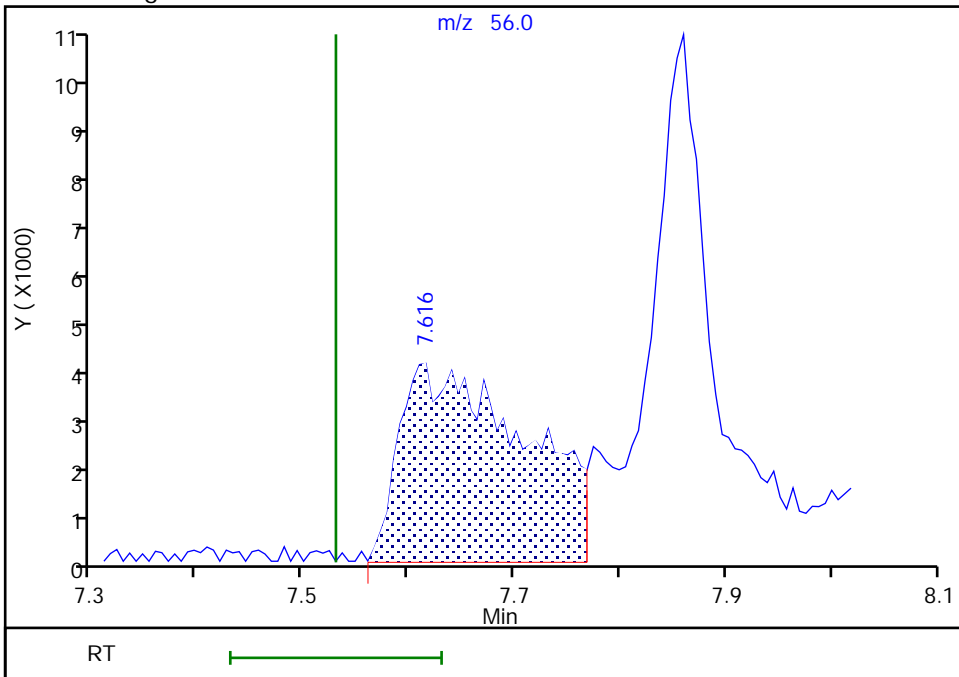
RT: 7.62
 Area: 25310
 Amount: 51.097647
 Amount Units: ug/l

Processing Integration Results



RT: 7.62
 Area: 33572
 Amount: 82.884252
 Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 08:03:14 -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\10193\20230501-82854.b\CY01X15.D
 Lims ID: IC std4 2
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 01-May-2023 20:07:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0082854-016
 Misc. Info.: IC STD4 2
 Operator ID: knk41612 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-May-2023 07:27:48 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: DVW2

Date: 02-May-2023 08:04:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.715	1.733	-0.018	99	145079	2.00	1.97	Ma
5 Chloromethane	50	1.886	1.898	-0.012	99	163798	2.00	1.89	
6 Vinyl chloride	62	1.983	1.995	-0.012	98	160114	2.00	1.94	
7 Butadiene	39	1.995	2.008	-0.013	93	153088	2.00	1.99	
9 Bromomethane	94	2.270	2.282	-0.012	92	112242	2.00	1.99	
10 Chloroethane	64	2.325	2.337	-0.012	100	94287	2.00	1.94	
11 Dichlorofluoromethane	67	2.544	2.556	-0.012	97	225065	2.00	1.97	
12 Trichlorofluoromethane	101	2.599	2.605	-0.006	98	202482	2.00	2.05	
13 Pentane	43	2.599	2.611	-0.012	96	134150	2.00	1.65	
14 Ethyl ether	59	2.776	2.788	-0.012	92	99967	2.00	1.96	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.873	2.879	-0.006	93	136393	2.00	1.94	
17 Acrolein	56	2.928	2.934	-0.006	100	642599	100.0	98.8	
18 1,1-Dichloroethene	96	3.038	3.050	-0.012	97	86085	2.00	1.73	
20 Acetone	43	3.080	3.074	0.006	97	143007	20.0	19.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.080	3.093	-0.013	91	88189	2.00	1.74	
22 Iodomethane	142	3.202	3.215	-0.013	98	180504	2.00	1.74	
24 Isopropyl alcohol	45	3.208	3.227	-0.019	92	50920	40.0	35.5	
23 Ethyl bromide	108	3.227	3.239	-0.012	98	98352	2.00	1.96	
25 Carbon disulfide	76	3.294	3.300	-0.006	100	294254	2.00	1.70	
26 Methyl acetate	43	3.422	3.428	-0.006	97	46375	2.00	1.95	
29 3-Chloro-1-propene	41	3.434	3.446	-0.012	91	155096	2.00	1.74	
30 Methylene Chloride	84	3.599	3.605	-0.006	92	105864	2.00	1.78	
* 31 t-Butyl alcohol-d10 (IS)	65	3.641	3.672	-0.031	93	155263	50.0	50.0	
32 2-Methyl-2-propanol	59	3.751	3.769	-0.018	99	119195	40.0	40.0	
33 Acrylonitrile	53	3.910	3.910	0.000	37	47177	5.00	4.40	
34 Methyl tert-butyl ether	73	3.940	3.952	-0.012	95	318041	2.00	1.85	
35 trans-1,2-Dichloroethene	96	3.946	3.952	-0.006	99	104170	2.00	1.71	
36 Hexane	57	4.330	4.349	-0.019	92	128562	2.00	1.66	
37 1,1-Dichloroethane	63	4.580	4.586	-0.006	96	192832	2.00	1.75	
39 Isopropyl ether	45	4.653	4.653	0.000	94	359828	2.00	1.80	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.696	4.696	0.000	91	152576	2.00	1.71	
41 Tert-butyl ethyl ether	59	5.196	5.208	-0.012	98	370711	2.00	1.84	
42 2-Butanone (MEK)	43	5.421	5.409	0.012	100	292284	20.0	19.9	
43 cis-1,2-Dichloroethene	96	5.440	5.446	-0.006	81	116205	2.00	1.75	
44 2,2-Dichloropropane	77	5.452	5.452	0.000	72	161106	2.00	1.65	
45 Propionitrile	54	5.519	5.507	0.012	99	120496	40.0	37.6	
47 Methacrylonitrile	67	5.714	5.720	-0.006	90	309492	20.0	19.7	
48 Chlorobromomethane	128	5.775	5.781	-0.006	90	56005	2.00	1.81	
49 Tetrahydrofuran	71	5.806	5.787	0.019	78	46394	10.0	9.90	a
50 Chloroform	83	5.940	5.940	0.000	93	194639	2.00	1.77	
S 52 1,2-Dichloroethene, Total	100				0			3.46	
53 1,1,1-Trichloroethane	97	6.153	6.159	-0.006	53	167882	2.00	1.73	
\$ 54 Dibromofluoromethane (Surr)	113	6.159	6.165	-0.006	94	510175	10.0	9.96	
55 Cyclohexane	56	6.251	6.257	-0.006	90	165251	2.00	1.67	
56 Carbon tetrachloride	117	6.366	6.373	-0.007	96	145282	2.00	1.75	
57 1,1-Dichloropropene	75	6.379	6.379	0.000	98	142574	2.00	1.73	
58 Isobutyl alcohol	41	6.635	6.604	0.031	88	73828	100.0	98.2	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.616	0.000	99	103393	10.0	10.2	
60 Benzene	78	6.635	6.647	-0.012	96	439350	2.00	1.75	
61 1,2-Dichloroethane	62	6.720	6.720	0.000	97	122217	2.00	1.68	
64 Tert-amyl methyl ether	73	6.854	6.860	-0.006	98	339385	2.00	1.82	
* 65 Fluorobenzene (IS)	96	7.061	7.055	0.006	99	1967571	10.0	10.0	
66 n-Heptane	43	7.080	7.086	-0.006	92	135728	2.00	1.68	
67 n-Butanol	56	7.573	7.531	0.042	89	81274	175.0	143.5	
68 Trichloroethene	95	7.555	7.555	0.000	97	114765	2.00	1.72	
69 Methylcyclohexane	83	7.854	7.860	-0.006	91	182524	2.00	1.71	
70 1,2-Dichloropropane	63	7.891	7.891	-0.001	97	116253	2.00	1.76	
71 2-ethoxy-2-methyl butane	87	7.921	7.927	-0.006	93	192440	2.00	1.82	
72 Dibromomethane	93	8.012	8.006	0.006	95	60313	2.00	1.85	
73 Methyl methacrylate	69	8.012	8.006	0.006	91	58850	2.00	1.90	
74 1,4-Dioxane	88	8.019	8.012	0.007	32	16915	100.0	102.8	
76 Dichlorobromomethane	83	8.256	8.256	0.000	99	147255	2.00	1.77	
77 2-Nitropropane	41	8.537	8.543	-0.006	99	99454	10.0	10.1	
78 1-Bromo-2-chloroethane	63	8.646	8.653	-0.007	99	136293	2.00	1.97	
80 cis-1,3-Dichloropropene	75	8.829	8.829	0.000	96	183994	2.00	1.80	
82 4-Methyl-2-pentanone (MIBK)	43	9.037	9.037	0.000	97	806524	20.0	19.8	
\$ 83 Toluene-d8 (Surr)	98	9.165	9.165	0.000	93	2188352	10.0	9.99	
84 Toluene	92	9.250	9.250	0.000	98	298097	2.00	1.76	
85 trans-1,3-Dichloropropene	75	9.555	9.555	0.000	93	155668	2.00	1.84	
86 Ethyl methacrylate	69	9.640	9.634	0.006	89	128098	2.00	1.87	
87 1,1,2-Trichloroethane	97	9.768	9.768	0.000	90	92415	2.00	1.84	
88 Tetrachloroethene	166	9.854	9.854	0.000	98	141716	2.00	1.78	
89 1,3-Dichloropropane	76	9.945	9.945	0.000	91	152590	2.00	1.89	
106 2-Hexanone	43	10.024	10.018	0.006	96	557623	20.0	21.0	
S 107 1,3-Dichloropropene, Total	100				0			3.64	
108 Chlorodibromomethane	129	10.171	10.171	0.000	90	115967	2.00	1.83	
110 Ethylene Dibromide	107	10.280	10.280	0.000	99	86581	2.00	1.83	
* 111 Chlorobenzene-d5 (IS)	117	10.744	10.743	0.001	85	1834206	10.0	10.0	
112 1-Chlorohexane	91	10.768	10.768	0.000	97	162948	2.00	1.69	
113 Chlorobenzene	112	10.768	10.774	-0.006	97	359544	2.00	1.79	
114 1,1,1,2-Tetrachloroethane	131	10.859	10.859	0.000	96	126543	2.00	1.81	
115 Ethylbenzene	91	10.866	10.866	0.000	98	577827	2.00	1.77	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	10.994	10.987	0.007	97	467941	4.00	3.55	
S 117 Xylenes, Total	106				0			5.33	
118 o-Xylene	106	11.335	11.335	0.000	96	233216	2.00	1.78	
119 Styrene	104	11.353	11.353	0.000	94	385075	2.00	1.80	
120 Bromoform	173	11.512	11.506	0.006	97	74742	2.00	1.87	
121 Isopropylbenzene	105	11.646	11.646	0.000	96	595432	2.00	1.78	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.792	0.000	93	937621	10.0	10.0	
125 Bromobenzene	156	11.908	11.908	0.000	91	160410	2.00	1.81	
126 1,1,2,2-Tetrachloroethane	83	11.908	11.908	0.000	84	124888	2.00	1.95	
127 trans-1,4-Dichloro-2-butene	53	11.938	11.932	0.006	92	303203	20.0	19.7	
128 1,2,3-Trichloropropane	110	11.951	11.951	0.000	76	33623	2.00	1.99	
129 N-Propylbenzene	91	11.987	11.987	0.000	98	677201	2.00	1.72	
130 2-Chlorotoluene	126	12.060	12.060	0.000	97	151223	2.00	1.78	
131 1,3,5-Trimethylbenzene	105	12.134	12.134	0.000	94	522152	2.00	1.77	
132 4-Chlorotoluene	126	12.158	12.158	0.000	97	160581	2.00	1.83	
133 tert-Butylbenzene	134	12.371	12.377	-0.006	93	114096	2.00	1.68	
134 Pentachloroethane	167	12.408	12.408	0.000	79	110771	2.00	2.00	
135 1,2,4-Trimethylbenzene	105	12.420	12.420	0.000	97	542964	2.00	1.78	
136 sec-Butylbenzene	105	12.542	12.542	0.000	94	663377	2.00	1.77	
137 1,3-Dichlorobenzene	146	12.646	12.640	0.006	98	312158	2.00	1.82	
138 4-Isopropyltoluene	119	12.658	12.658	0.000	97	598481	2.00	1.79	
* 139 1,4-Dichlorobenzene-d4	152	12.701	12.700	0.001	94	1146421	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.719	12.719	0.000	96	316219	2.00	1.83	
141 1,2,3-Trimethylbenzene	120	12.731	12.731	0.000	98	251377	2.00	1.78	
142 Benzyl chloride	126	12.804	12.798	0.006	98	52748	2.00	2.02	
145 p-Diethylbenzene	119	12.938	12.932	0.006	94	368746	2.00	1.79	
143 n-Butylbenzene	92	12.957	12.957	0.000	97	278872	2.00	1.79	
144 1,2-Dichlorobenzene	146	12.981	12.981	0.000	99	297449	2.00	1.86	
148 1,2-Dibromo-3-Chloropropane	155	13.542	13.536	0.006	87	16485	2.00	1.90	
149 1,3,5-Trichlorobenzene	180	13.664	13.664	0.000	98	245749	2.00	1.82	
150 1,2,4-Trichlorobenzene	180	14.097	14.091	0.006	94	187759	2.00	1.83	
151 Hexachlorobutadiene	225	14.176	14.176	0.000	97	105708	2.00	1.74	
152 Naphthalene	128	14.280	14.273	0.007	96	314062	2.00	1.91	
153 1,2,3-Trichlorobenzene	180	14.426	14.420	0.006	96	149565	2.00	1.84	
154 2-Methylnaphthalene	142	15.023	15.017	0.006	92	116530	2.00	1.60	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00075

Amount Added: 2.00

Units: uL

MSV_LL_#2_826_00083

Amount Added: 2.00

Units: uL

MSV_LL_GAS826_00148

Amount Added: 2.00

Units: uL

MSV_HP25_ISSS_00068

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X15.D

Injection Date: 01-May-2023 20:07:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: IC std4 2

Worklist Smp#: 16

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

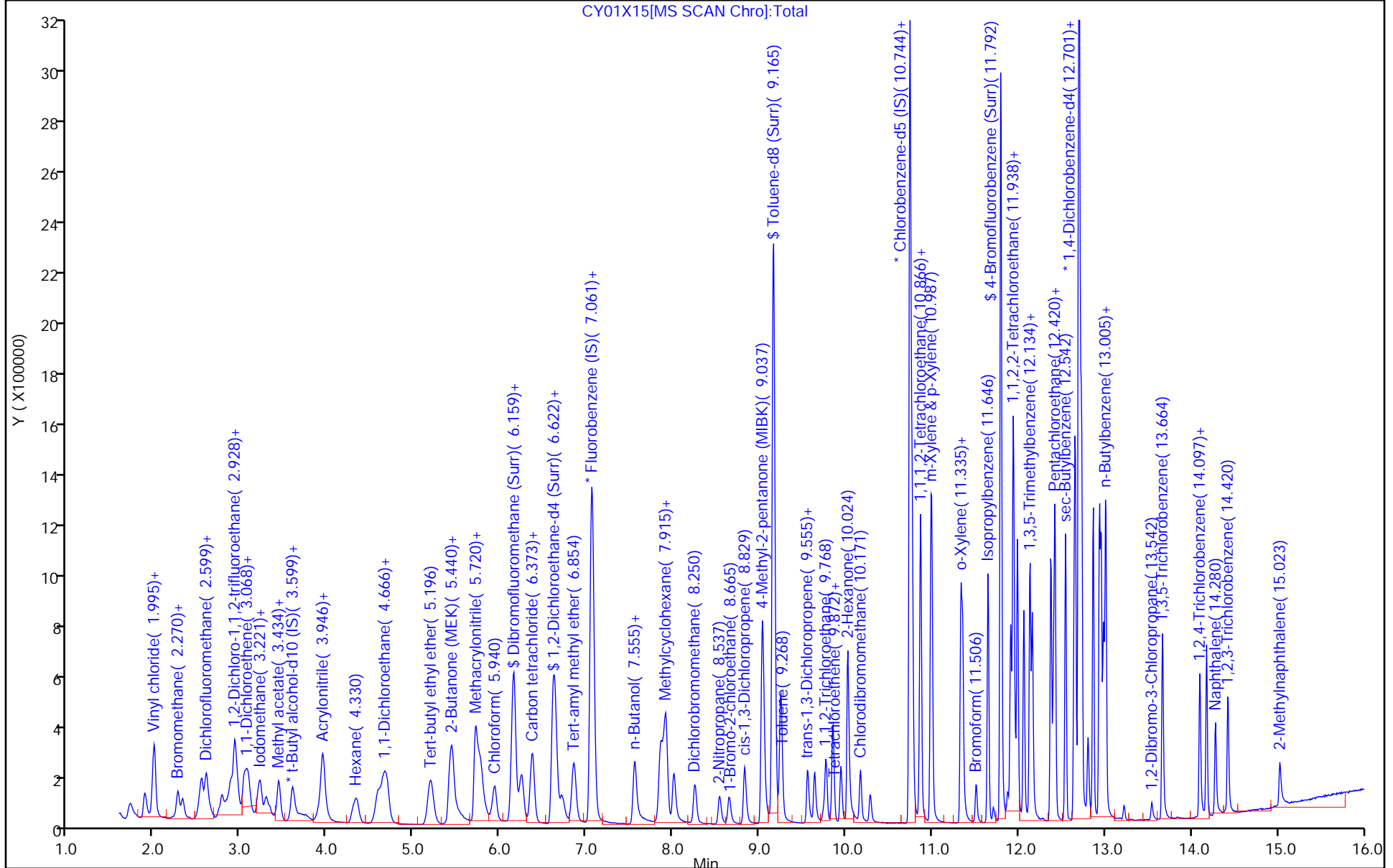
ALS Bottle#: 15

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

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



Eurofins Lancaster Laboratories Environment Testing, LLC

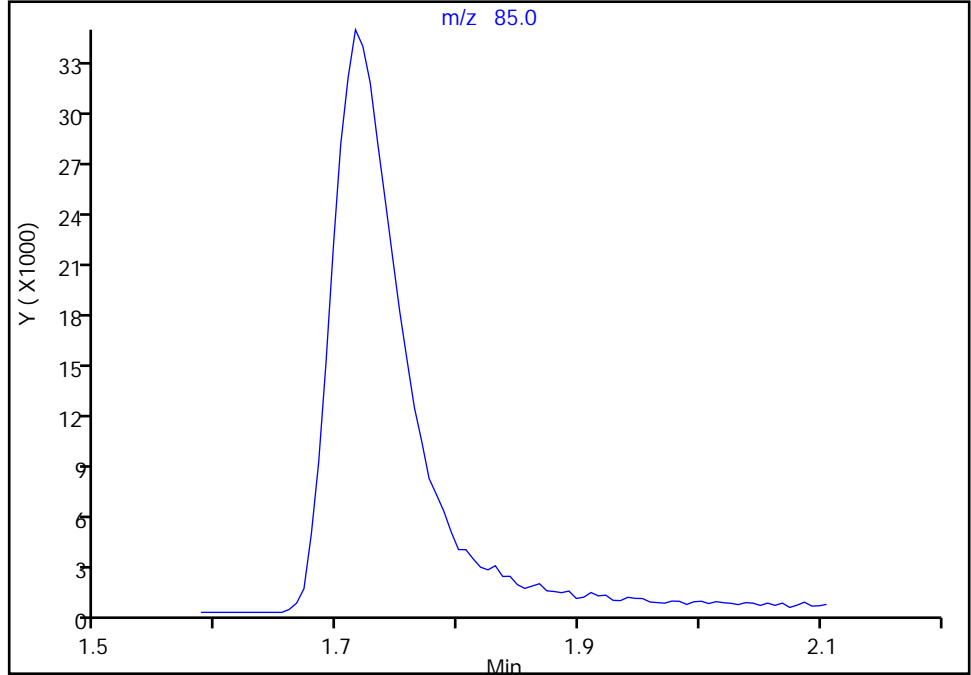
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Injection Date: 01-May-2023 20:07:30 Instrument ID: 10193
Lims ID: IC std4 2
Client ID:
Operator ID: knk41612 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

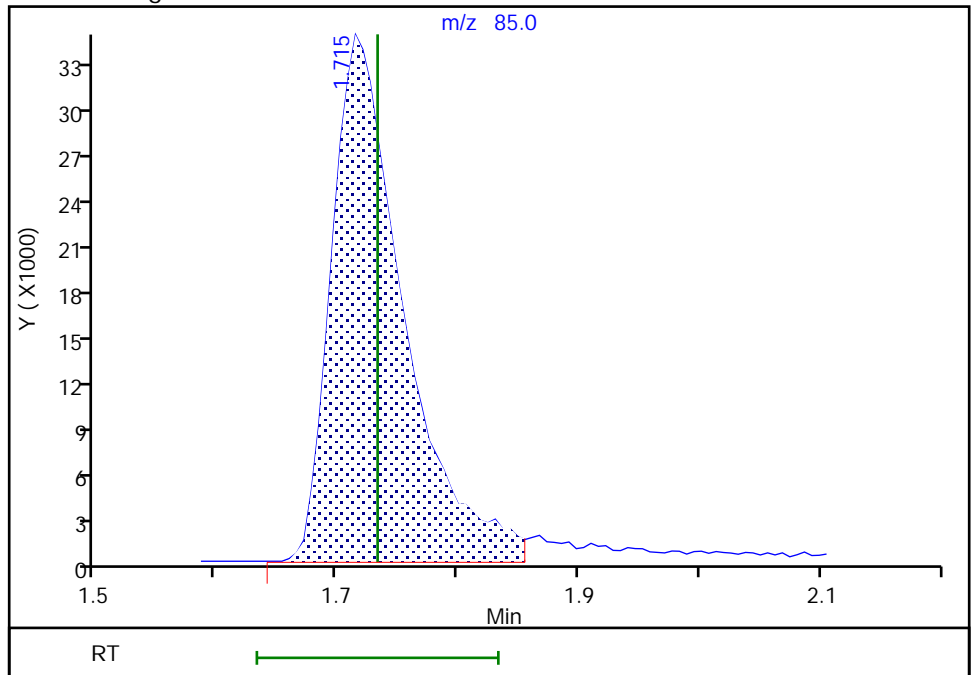
Signal: 1

Not Detected
Expected RT: 1.73

Processing Integration Results



Manual Integration Results



RT: 1.71
Area: 145079
Amount: 1.968566
Amount Units: ug/l

Reviewer: DVW2, 02-May-2023 08:04:12 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

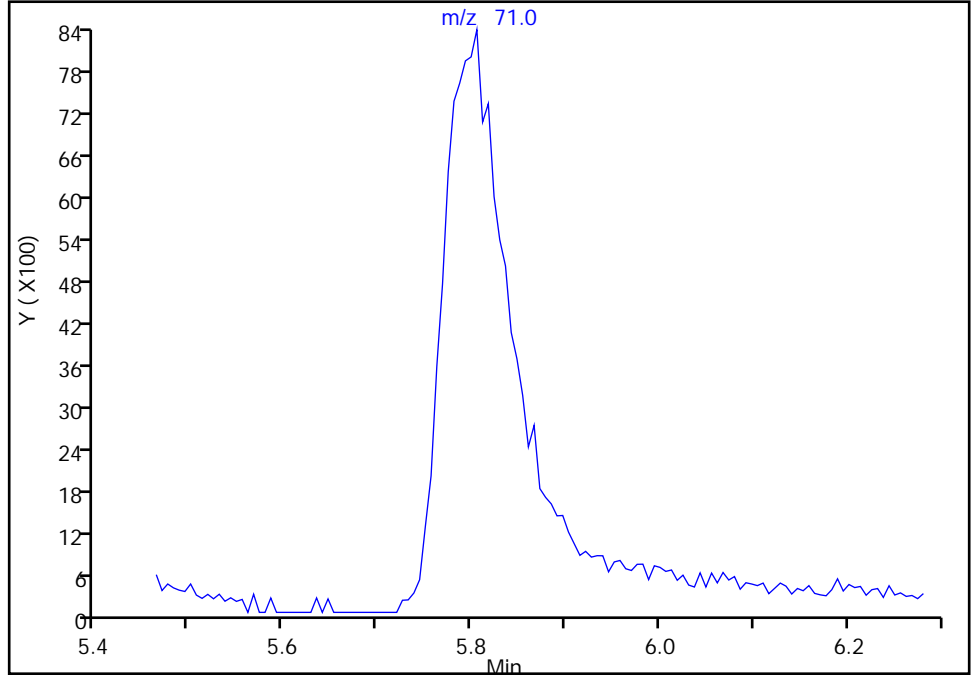
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Injection Date: 01-May-2023 20:07:30 Instrument ID: 10193
Lims ID: IC std4 2
Client ID:
Operator ID: knk41612 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

49 Tetrahydrofuran, CAS: 109-99-9

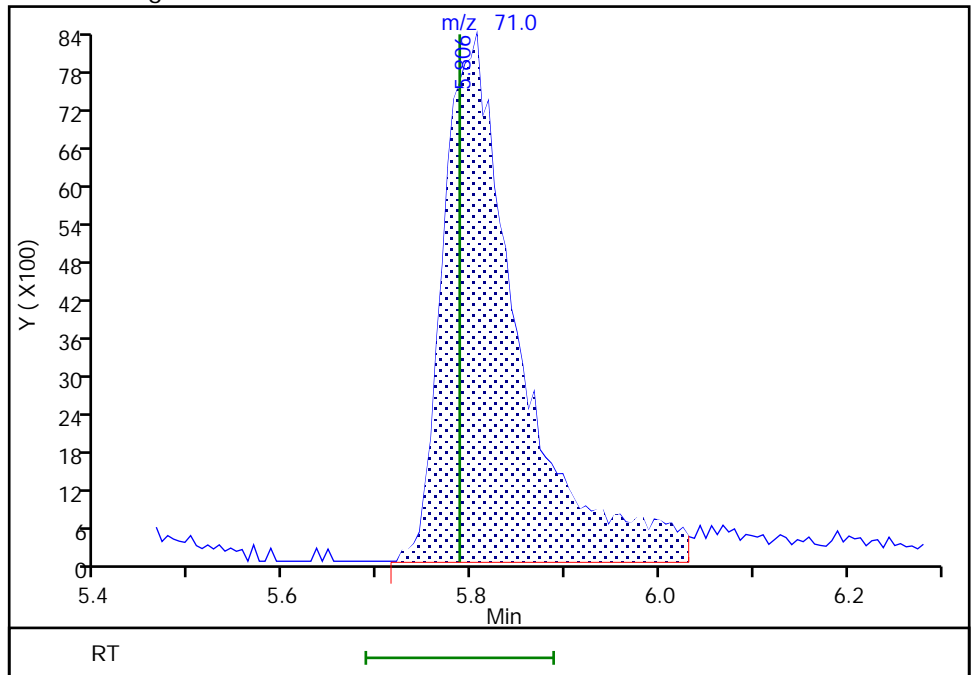
Signal: 1

Not Detected
Expected RT: 5.79

Processing Integration Results



Manual Integration Results



RT: 5.81
Area: 46394
Amount: 9.895963
Amount Units: ug/l

Reviewer: DVW2, 02-May-2023 08:04:28 -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\10193\20230501-82854.b\CY01X16.D
 Lims ID: IC std5 5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 01-May-2023 20:29:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0082854-017
 Misc. Info.: IC STD5 5
 Operator ID: knk41612 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-May-2023 07:27:53 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: DVW2

Date: 02-May-2023 08:05:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.721	1.733	-0.012	99	370847	5.00	5.00	M
5 Chloromethane	50	1.898	1.898	0.000	99	438521	5.00	5.04	
6 Vinyl chloride	62	1.995	1.995	0.000	98	424476	5.00	5.10	
7 Butadiene	39	2.007	2.008	-0.001	92	360495	5.00	4.66	
9 Bromomethane	94	2.276	2.282	-0.006	90	282213	5.00	4.98	
10 Chloroethane	64	2.337	2.337	0.000	100	240755	5.00	4.92	
11 Dichlorofluoromethane	67	2.550	2.556	-0.006	97	577697	5.00	5.01	
12 Trichlorofluoromethane	101	2.605	2.605	0.000	96	503647	5.00	5.06	
13 Pentane	43	2.605	2.611	-0.006	96	407957	5.00	4.99	
14 Ethyl ether	59	2.788	2.788	0.000	92	249753	5.00	4.86	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.873	2.879	-0.006	93	348627	5.00	4.93	
17 Acrolein	56	2.934	2.934	0.000	100	1672881	250.0	257.6	
18 1,1-Dichloroethene	96	3.050	3.050	0.000	98	253696	5.00	5.06	
20 Acetone	43	3.074	3.074	0.000	100	361471	50.0	48.9	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.093	3.093	0.000	92	258104	5.00	5.07	
22 Iodomethane	142	3.208	3.215	-0.007	98	541150	5.00	5.17	
24 Isopropyl alcohol	45	3.202	3.227	-0.025	36	144850	100.0	101.1	
23 Ethyl bromide	108	3.233	3.239	-0.006	98	259894	5.01	5.15	
25 Carbon disulfide	76	3.300	3.300	0.000	100	885144	5.00	5.08	
26 Methyl acetate	43	3.434	3.428	0.006	34	105928	5.00	4.47	
29 3-Chloro-1-propene	41	3.446	3.446	0.000	91	464543	5.00	5.16	
30 Methylene Chloride	84	3.605	3.605	0.000	91	305134	5.00	5.08	
* 31 t-Butyl alcohol-d10 (IS)	65	3.653	3.672	-0.019	71	154995	50.0	50.0	
32 2-Methyl-2-propanol	59	3.763	3.769	-0.006	100	279636	100.0	94.1	
33 Acrylonitrile	53	3.916	3.910	0.006	99	125207	12.5	11.7	
34 Methyl tert-butyl ether	73	3.958	3.952	0.006	95	866258	5.00	5.00	
35 trans-1,2-Dichloroethene	96	3.952	3.952	0.000	98	312169	5.00	5.09	
36 Hexane	57	4.342	4.349	-0.007	92	394857	5.00	5.07	
37 1,1-Dichloroethane	63	4.580	4.586	-0.006	96	570426	5.00	5.14	
39 Isopropyl ether	45	4.659	4.653	0.006	93	1020112	5.00	5.06	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.702	4.696	0.006	91	468216	5.00	5.21	
41 Tert-butyl ethyl ether	59	5.202	5.208	-0.006	98	1027162	5.00	5.06	
42 2-Butanone (MEK)	43	5.415	5.409	0.006	99	766849	50.0	52.4	
43 cis-1,2-Dichloroethene	96	5.446	5.446	0.000	82	346092	5.00	5.17	
44 2,2-Dichloropropane	77	5.446	5.452	-0.006	87	485219	5.00	4.94	
45 Propionitrile	54	5.513	5.507	0.006	99	345504	100.0	108.0	
47 Methacrylonitrile	67	5.714	5.720	-0.006	91	837484	50.0	53.3	
48 Chlorobromomethane	128	5.775	5.781	-0.006	91	162069	5.00	5.20	
49 Tetrahydrofuran	71	5.793	5.787	0.006	77	112621	25.0	24.1	
50 Chloroform	83	5.940	5.940	0.000	94	566761	5.00	5.11	
S 52 1,2-Dichloroethene, Total	100				0			10.3	
53 1,1,1-Trichloroethane	97	6.159	6.159	0.000	87	496390	5.00	5.07	
\$ 54 Dibromofluoromethane (Surr)	113	6.159	6.165	-0.006	94	520845	10.0	10.1	
55 Cyclohexane	56	6.257	6.257	0.000	90	499985	5.00	5.03	
56 Carbon tetrachloride	117	6.372	6.373	-0.001	97	435211	5.00	5.20	
57 1,1-Dichloropropene	75	6.385	6.379	0.006	96	428358	5.00	5.17	
58 Isobutyl alcohol	41	6.616	6.604	0.012	60	206357	250.0	275.0	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.616	0.000	98	99162	10.0	9.75	
60 Benzene	78	6.641	6.647	-0.006	97	1306765	5.00	5.16	
61 1,2-Dichloroethane	62	6.720	6.720	0.000	98	367375	5.00	5.02	
64 Tert-amyl methyl ether	73	6.860	6.860	0.000	98	952816	5.00	5.09	
* 65 Fluorobenzene (IS)	96	7.067	7.055	0.012	98	1980922	10.0	10.0	
66 n-Heptane	43	7.086	7.086	0.000	91	416478	5.00	5.12	
67 n-Butanol	56	7.549	7.531	0.018	87	289735	437.5	406.4	
68 Trichloroethene	95	7.555	7.555	0.000	97	347795	5.00	5.18	
69 Methylcyclohexane	83	7.860	7.860	0.000	91	554423	5.00	5.15	
70 1,2-Dichloropropane	63	7.890	7.891	-0.001	97	341576	5.00	5.14	
71 2-ethoxy-2-methyl butane	87	7.921	7.927	-0.006	93	553627	5.00	5.19	
72 Dibromomethane	93	8.006	8.006	0.000	91	166346	5.00	5.07	
73 Methyl methacrylate	69	8.012	8.006	0.006	92	166644	5.00	5.40	
74 1,4-Dioxane	88	8.025	8.012	0.013	33	47072	250.0	286.7	
76 Dichlorobromomethane	83	8.256	8.256	0.000	99	432798	5.00	5.16	
77 2-Nitropropane	41	8.543	8.543	0.000	98	263321	25.0	26.7	
78 1-Bromo-2-chloroethane	63	8.652	8.653	-0.001	98	362701	5.00	5.20	
80 cis-1,3-Dichloropropene	75	8.829	8.829	0.000	96	543896	5.00	5.29	
82 4-Methyl-2-pentanone (MIBK)	43	9.037	9.037	0.000	96	2142002	50.0	52.8	
\$ 83 Toluene-d8 (Surr)	98	9.165	9.165	0.000	93	2221928	10.0	10.0	
84 Toluene	92	9.250	9.250	0.000	98	873512	5.00	5.11	
85 trans-1,3-Dichloropropene	75	9.555	9.555	0.000	93	464972	5.00	5.44	
86 Ethyl methacrylate	69	9.640	9.634	0.006	89	366055	5.00	5.29	
87 1,1,2-Trichloroethane	97	9.774	9.768	0.006	90	252235	5.00	4.96	
88 Tetrachloroethene	166	9.853	9.854	-0.001	98	418173	5.00	5.18	
89 1,3-Dichloropropane	76	9.945	9.945	0.000	91	421750	5.00	5.15	
106 2-Hexanone	43	10.018	10.018	0.000	96	1488305	50.0	56.3	
S 107 1,3-Dichloropropene, Total	100				0			10.7	
108 Chlorodibromomethane	129	10.170	10.171	-0.001	90	336724	5.00	5.26	
110 Ethylene Dibromide	107	10.280	10.280	0.000	99	248551	5.00	5.19	
* 111 Chlorobenzene-d5 (IS)	117	10.744	10.743	0.001	84	1855538	10.0	10.0	
112 1-Chlorohexane	91	10.768	10.768	0.000	98	481823	5.00	4.94	
113 Chlorobenzene	112	10.774	10.774	0.000	98	1049871	5.00	5.16	
114 1,1,1,2-Tetrachloroethane	131	10.859	10.859	0.000	96	364212	5.00	5.15	
115 Ethylbenzene	91	10.865	10.866	-0.001	98	1729005	5.00	5.24	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	10.987	10.987	0.000	97	1386791	10.0	10.4	
S 117 Xylenes, Total	106				0			15.6	
118 o-Xylene	106	11.335	11.335	0.000	96	692373	5.00	5.24	
119 Styrene	104	11.353	11.353	0.000	95	1157660	5.00	5.36	
120 Bromoform	173	11.506	11.506	0.000	98	214347	5.00	5.31	
121 Isopropylbenzene	105	11.646	11.646	0.000	95	1777018	5.00	5.24	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.792	0.000	92	953694	10.0	10.1	
125 Bromobenzene	156	11.908	11.908	0.000	92	465679	5.00	5.26	
126 1,1,2,2-Tetrachloroethane	83	11.908	11.908	0.000	91	332415	5.00	5.18	
127 trans-1,4-Dichloro-2-butene	53	11.938	11.932	0.006	91	866324	50.0	56.2	
128 1,2,3-Trichloropropane	110	11.951	11.951	0.000	81	85843	5.00	5.08	
129 N-Propylbenzene	91	11.987	11.987	0.000	98	2075659	5.00	5.27	
130 2-Chlorotoluene	126	12.060	12.060	0.000	97	446449	5.00	5.24	
131 1,3,5-Trimethylbenzene	105	12.133	12.134	-0.001	94	1563918	5.00	5.29	
132 4-Chlorotoluene	126	12.158	12.158	0.000	97	465229	5.00	5.30	
133 tert-Butylbenzene	134	12.377	12.377	0.000	93	363705	5.00	5.36	
134 Pentachloroethane	167	12.402	12.408	-0.006	93	294785	5.00	5.32	
135 1,2,4-Trimethylbenzene	105	12.420	12.420	0.000	97	1624641	5.00	5.33	
136 sec-Butylbenzene	105	12.542	12.542	0.000	94	1980038	5.00	5.29	
137 1,3-Dichlorobenzene	146	12.639	12.640	-0.001	98	914516	5.00	5.32	
138 4-Isopropyltoluene	119	12.658	12.658	0.000	97	1778983	5.00	5.32	
* 139 1,4-Dichlorobenzene-d4	152	12.700	12.700	0.000	93	1147138	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.719	12.719	0.000	96	924059	5.00	5.34	
141 1,2,3-Trimethylbenzene	120	12.731	12.731	0.000	98	740448	5.00	5.24	
142 Benzyl chloride	126	12.804	12.798	0.006	98	145876	5.00	5.58	
145 p-Diethylbenzene	119	12.932	12.932	0.000	94	1118185	5.00	5.43	
143 n-Butylbenzene	92	12.956	12.957	-0.001	97	854099	5.00	5.49	
144 1,2-Dichlorobenzene	146	12.981	12.981	0.000	99	865624	5.00	5.40	
148 1,2-Dibromo-3-Chloropropane	155	13.542	13.536	0.006	89	46653	5.00	5.38	
149 1,3,5-Trichlorobenzene	180	13.664	13.664	0.000	98	724908	5.00	5.38	
150 1,2,4-Trichlorobenzene	180	14.097	14.091	0.005	94	575664	5.00	5.59	
151 Hexachlorobutadiene	225	14.176	14.176	0.000	96	311552	5.00	5.14	
152 Naphthalene	128	14.273	14.273	0.000	97	884074	5.00	5.36	
153 1,2,3-Trichlorobenzene	180	14.420	14.420	0.000	96	442612	5.00	5.43	
154 2-Methylnaphthalene	142	15.017	15.017	0.000	92	354897	5.00	4.42	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00075

Amount Added: 5.00

Units: uL

MSV_LL_#2_826_00083

Amount Added: 5.00

Units: uL

MSV_LL_GAS826_00148

Amount Added: 5.00

Units: uL

MSV_HP25_ISSS_00068

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X16.D

Injection Date: 01-May-2023 20:29:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: IC std5 5

Worklist Smp#: 17

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

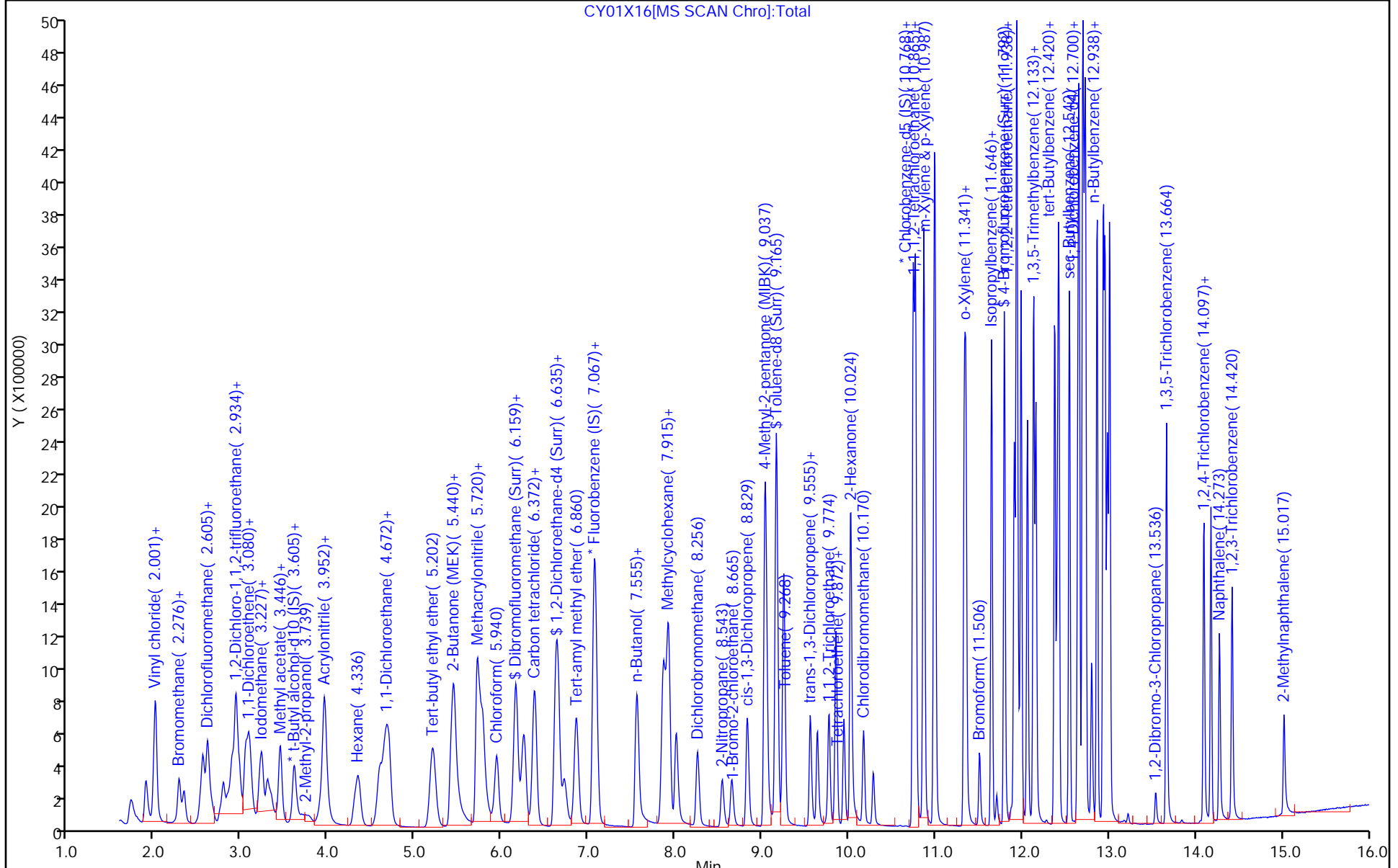
ALS Bottle#: 16

Method: MSV_10193_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



CY01X16[MS SCAN Chrom]:Total

Eurofins Lancaster Laboratories Environment Testing, LLC

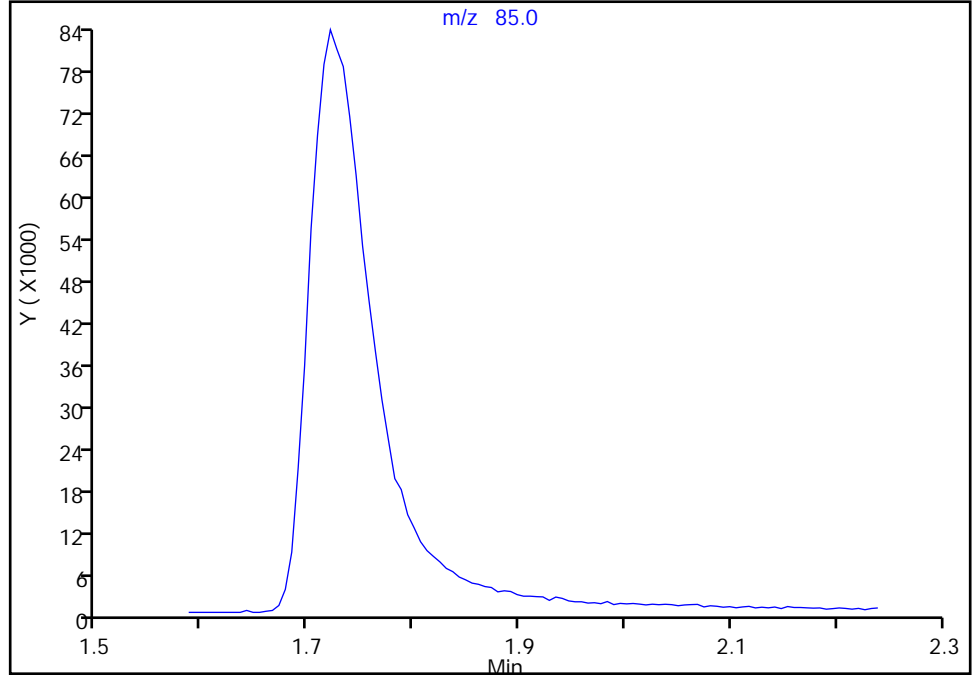
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Injection Date: 01-May-2023 20:29:30 Instrument ID: 10193
Lims ID: IC std5 5
Client ID:
Operator ID: knk41612 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

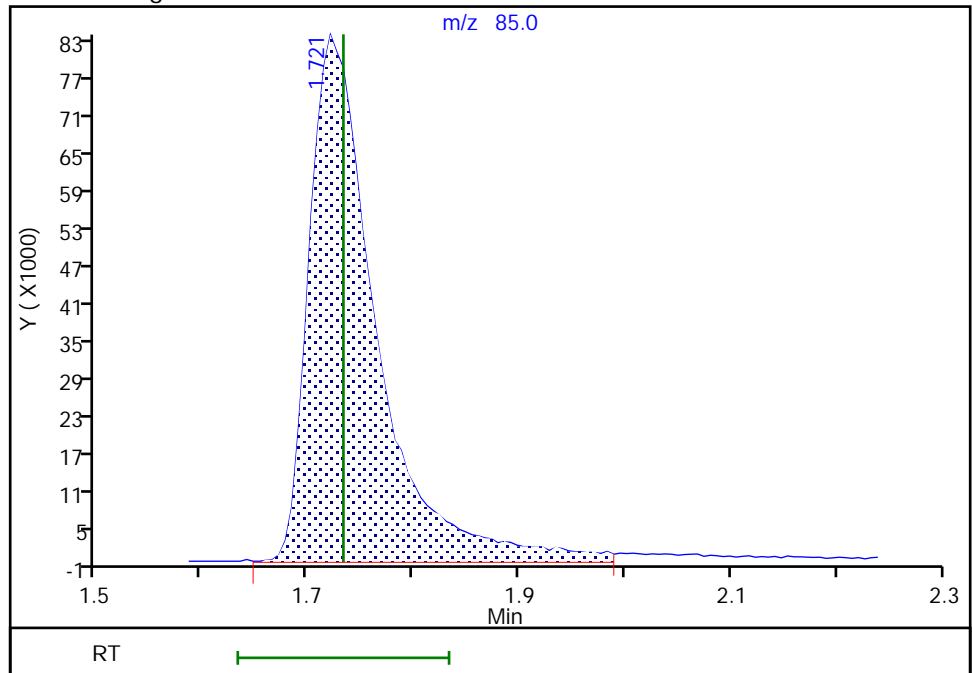
Signal: 1

Not Detected
Expected RT: 1.73

Processing Integration Results



Manual Integration Results



RT: 1.72
Area: 370847
Amount: 4.998080
Amount Units: ug/l

Reviewer: DVW2, 02-May-2023 08:05:17 -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\10193\20230501-82854.b\CY01X17.D
 Lims ID: ICIS 10
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 01-May-2023 20:52:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0082854-018
 Misc. Info.: ICIS 10
 Operator ID: knk41612 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-May-2023 07:27:57 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: DVW2 Date: 02-May-2023 14:45:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.733	1.733	0.000	99	733924	10.0	9.90	
5 Chloromethane	50	1.898	1.898	0.000	99	847656	10.0	9.75	
6 Vinyl chloride	62	1.995	1.995	0.000	98	815266	10.0	9.81	
7 Butadiene	39	2.008	2.008	0.000	92	733554	10.0	9.50	
9 Bromomethane	94	2.282	2.282	0.000	90	537960	10.0	9.50	
10 Chloroethane	64	2.337	2.337	0.000	100	468210	10.0	9.59	
11 Dichlorofluoromethane	67	2.556	2.556	0.000	97	1119352	10.0	9.72	
12 Trichlorofluoromethane	101	2.605	2.605	0.000	98	985985	10.0	9.91	
13 Pentane	43	2.611	2.611	0.000	96	803308	10.0	9.83	
14 Ethyl ether	59	2.788	2.788	0.000	92	505712	10.0	9.84	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.879	2.879	0.000	93	682201	10.0	9.65	
17 Acrolein	56	2.934	2.934	0.000	100	3378019	500.0	508.5	
18 1,1-Dichloroethene	96	3.050	3.050	0.000	98	493944	10.0	9.86	
20 Acetone	43	3.074	3.074	0.000	99	707625	100.0	93.7	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.093	3.093	0.000	92	505805	10.0	9.95	
22 Iodomethane	142	3.215	3.215	0.000	98	1061357	10.0	10.2	
24 Isopropyl alcohol	45	3.227	3.227	0.000	35	310652	200.0	212.0	
23 Ethyl bromide	108	3.239	3.239	0.000	98	507129	10.0	10.1	
25 Carbon disulfide	76	3.300	3.300	0.000	99	1797605	10.0	10.3	
26 Methyl acetate	43	3.428	3.428	0.000	95	225184	10.0	9.29	M
29 3-Chloro-1-propene	41	3.446	3.446	0.000	91	913691	10.0	10.2	
30 Methylene Chloride	84	3.605	3.605	0.000	92	598119	10.0	9.98	
* 31 t-Butyl alcohol-d10 (IS)	65	3.641	3.641	0.000	95	158563	50.0	50.0	
32 2-Methyl-2-propanol	59	3.769	3.769	0.000	100	581340	200.0	191.2	
33 Acrylonitrile	53	3.910	3.910	0.000	99	255304	25.0	23.3	
34 Methyl tert-butyl ether	73	3.952	3.952	0.000	93	1725441	10.0	9.96	
35 trans-1,2-Dichloroethene	96	3.952	3.952	0.000	99	615390	10.0	10.1	
36 Hexane	57	4.349	4.349	0.000	92	787272	10.0	10.1	
37 1,1-Dichloroethane	63	4.586	4.586	0.000	96	1118224	10.0	10.1	
39 Isopropyl ether	45	4.653	4.653	0.000	93	2034472	10.0	10.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.696	4.696	0.000	91	934857	10.0	10.4	
41 Tert-butyl ethyl ether	59	5.208	5.208	0.000	98	2046949	10.0	10.1	
42 2-Butanone (MEK)	43	5.409	5.409	0.000	99	1538747	100.0	102.7	
43 cis-1,2-Dichloroethene	96	5.446	5.446	0.000	82	678443	10.0	10.1	
44 2,2-Dichloropropane	77	5.452	5.452	0.000	86	938999	10.0	9.57	
45 Propionitrile	54	5.507	5.507	0.000	99	703206	200.0	214.9	
47 Methacrylonitrile	67	5.720	5.720	0.000	91	1703542	100.0	106.0	
48 Chlorobromomethane	128	5.781	5.781	0.000	93	316292	10.0	10.2	
49 Tetrahydrofuran	71	5.787	5.787	0.000	90	222798	50.0	46.5	
50 Chloroform	83	5.940	5.940	0.000	93	1117567	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.159	6.159	0.000	98	972172	10.0	9.95	
\$ 54 Dibromofluoromethane (Surr)	113	6.165	6.165	0.000	94	514910	10.0	10.0	
55 Cyclohexane	56	6.257	6.257	0.000	90	1004095	10.0	10.1	
56 Carbon tetrachloride	117	6.373	6.373	0.000	97	860343	10.0	10.3	
57 1,1-Dichloropropene	75	6.379	6.379	0.000	97	840956	10.0	10.2	
58 Isobutyl alcohol	41	6.604	6.604	0.000	95	447936	500.0	583.4	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.616	0.000	99	101377	10.0	9.98	
60 Benzene	78	6.647	6.647	0.000	97	2557558	10.0	10.1	
61 1,2-Dichloroethane	62	6.720	6.720	0.000	97	696212	10.0	9.53	
64 Tert-amyl methyl ether	73	6.860	6.860	0.000	98	1888227	10.0	10.1	
* 65 Fluorobenzene (IS)	96	7.068	7.068	0.000	99	1979051	10.0	10.0	
66 n-Heptane	43	7.086	7.086	0.000	89	853515	10.0	10.5	
67 n-Butanol	56	7.531	7.531	0.000	88	685163	875.0	885.2	
68 Trichloroethene	95	7.555	7.555	0.000	98	687744	10.0	10.3	
69 Methylcyclohexane	83	7.860	7.860	0.000	91	1110799	10.0	10.3	
70 1,2-Dichloropropane	63	7.891	7.891	0.000	97	678866	10.0	10.2	
71 2-ethoxy-2-methyl butane	87	7.927	7.927	0.000	93	1108880	10.0	10.4	
72 Dibromomethane	93	8.006	8.006	0.000	80	334312	10.0	10.2	
73 Methyl methacrylate	69	8.006	8.006	0.000	92	334881	10.0	10.6	
74 1,4-Dioxane	88	8.012	8.012	0.000	31	92700	500.0	551.8	
76 Dichlorobromomethane	83	8.256	8.256	0.000	99	860308	10.0	10.3	
77 2-Nitropropane	41	8.543	8.543	0.000	98	517735	50.0	51.3	
78 1-Bromo-2-chloroethane	63	8.653	8.653	0.000	99	714193	10.0	10.2	
80 cis-1,3-Dichloropropene	75	8.829	8.829	0.000	96	1100808	10.0	10.7	
82 4-Methyl-2-pentanone (MIBK)	43	9.037	9.037	0.000	96	4346504	100.0	104.7	
\$ 83 Toluene-d8 (Surr)	98	9.165	9.165	0.000	94	2226358	10.0	10.1	
84 Toluene	92	9.250	9.250	0.000	98	1732261	10.0	10.2	
85 trans-1,3-Dichloropropene	75	9.555	9.555	0.000	93	950369	10.0	11.1	
86 Ethyl methacrylate	69	9.634	9.634	0.000	89	760195	10.0	11.0	
87 1,1,2-Trichloroethane	97	9.768	9.768	0.000	90	502445	10.0	9.90	
88 Tetrachloroethene	166	9.854	9.854	0.000	98	809533	10.0	10.0	
89 1,3-Dichloropropane	76	9.945	9.945	0.000	91	849237	10.0	10.4	
106 2-Hexanone	43	10.018	10.018	0.000	96	3099271	100.0	114.6	
108 Chlorodibromomethane	129	10.171	10.171	0.000	90	665076	10.0	10.4	
110 Ethylene Dibromide	107	10.280	10.280	0.000	99	495106	10.0	10.4	
* 111 Chlorobenzene-d5 (IS)	117	10.744	10.744	0.000	84	1853075	10.0	10.0	
112 1-Chlorohexane	91	10.768	10.768	0.000	98	952854	10.0	9.79	
113 Chlorobenzene	112	10.774	10.774	0.000	97	2069032	10.0	10.2	
114 1,1,1,2-Tetrachloroethane	131	10.859	10.859	0.000	96	724952	10.0	10.3	
115 Ethylbenzene	91	10.866	10.866	0.000	98	3420475	10.0	10.4	
116 m-Xylene & p-Xylene	106	10.987	10.987	0.000	97	2758842	20.0	20.7	
118 o-Xylene	106	11.335	11.335	0.000	96	1356965	10.0	10.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 Styrene	104	11.353	11.353	0.000	95	2291966	10.0	10.6	
120 Bromoform	173	11.506	11.506	0.000	97	435399	10.0	10.8	
121 Isopropylbenzene	105	11.646	11.646	0.000	96	3491314	10.0	10.3	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.792	0.000	92	959199	10.0	10.1	
125 Bromobenzene	156	11.908	11.908	0.000	92	916724	10.0	10.2	
126 1,1,2,2-Tetrachloroethane	83	11.908	11.908	0.000	91	660367	10.0	10.2	
127 trans-1,4-Dichloro-2-butene	53	11.932	11.932	0.000	91	1803054	100.0	115.6	
128 1,2,3-Trichloropropane	110	11.951	11.951	0.000	80	171684	10.0	10.0	
129 N-Propylbenzene	91	11.987	11.987	0.000	99	4192111	10.0	10.5	
130 2-Chlorotoluene	126	12.060	12.060	0.000	97	883135	10.0	10.3	
131 1,3,5-Trimethylbenzene	105	12.134	12.134	0.000	94	3105699	10.0	10.4	
132 4-Chlorotoluene	126	12.158	12.158	0.000	97	922230	10.0	10.4	
133 tert-Butylbenzene	134	12.377	12.377	0.000	93	713512	10.0	10.4	
134 Pentachloroethane	167	12.408	12.408	0.000	94	589766	10.0	10.5	
135 1,2,4-Trimethylbenzene	105	12.420	12.420	0.000	97	3242306	10.0	10.5	
136 sec-Butylbenzene	105	12.542	12.542	0.000	94	3944219	10.0	10.4	
137 1,3-Dichlorobenzene	146	12.640	12.640	0.000	99	1836862	10.0	10.6	
138 4-Isopropyltoluene	119	12.658	12.658	0.000	97	3536853	10.0	10.4	
* 139 1,4-Dichlorobenzene-d4	152	12.701	12.701	0.000	93	1160831	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.719	12.719	0.000	95	1829431	10.0	10.4	
141 1,2,3-Trimethylbenzene	120	12.731	12.731	0.000	98	1472721	10.0	10.3	
142 Benzyl chloride	126	12.798	12.798	0.000	98	302290	10.0	11.4	
145 p-Diethylbenzene	119	12.932	12.932	0.000	94	2210767	10.0	10.6	M
143 n-Butylbenzene	92	12.957	12.957	0.000	97	1703384	10.0	10.8	
144 1,2-Dichlorobenzene	146	12.981	12.981	0.000	99	1724658	10.0	10.6	
148 1,2-Dibromo-3-Chloropropane	155	13.536	13.536	0.000	88	98449	10.0	11.2	
149 1,3,5-Trichlorobenzene	180	13.664	13.664	0.000	98	1455706	10.0	10.7	
150 1,2,4-Trichlorobenzene	180	14.091	14.091	0.000	94	1165926	10.0	11.2	
151 Hexachlorobutadiene	225	14.176	14.176	0.000	96	634505	10.0	10.3	
152 Naphthalene	128	14.273	14.273	0.000	97	1879407	10.0	11.3	
153 1,2,3-Trichlorobenzene	180	14.420	14.420	0.000	96	914820	10.0	11.1	
154 2-Methylnaphthalene	142	15.017	15.017	0.000	93	812570	10.0	9.72	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00075

Amount Added: 10.00

Units: uL

MSV_LL_#2_826_00083

Amount Added: 10.00

Units: uL

MSV_LL_GAS826_00148

Amount Added: 10.00

Units: uL

MSV_HP25_ISSS_00068

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X17.D

Injection Date: 01-May-2023 20:52:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: ICIS 10

Worklist Smp#: 18

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

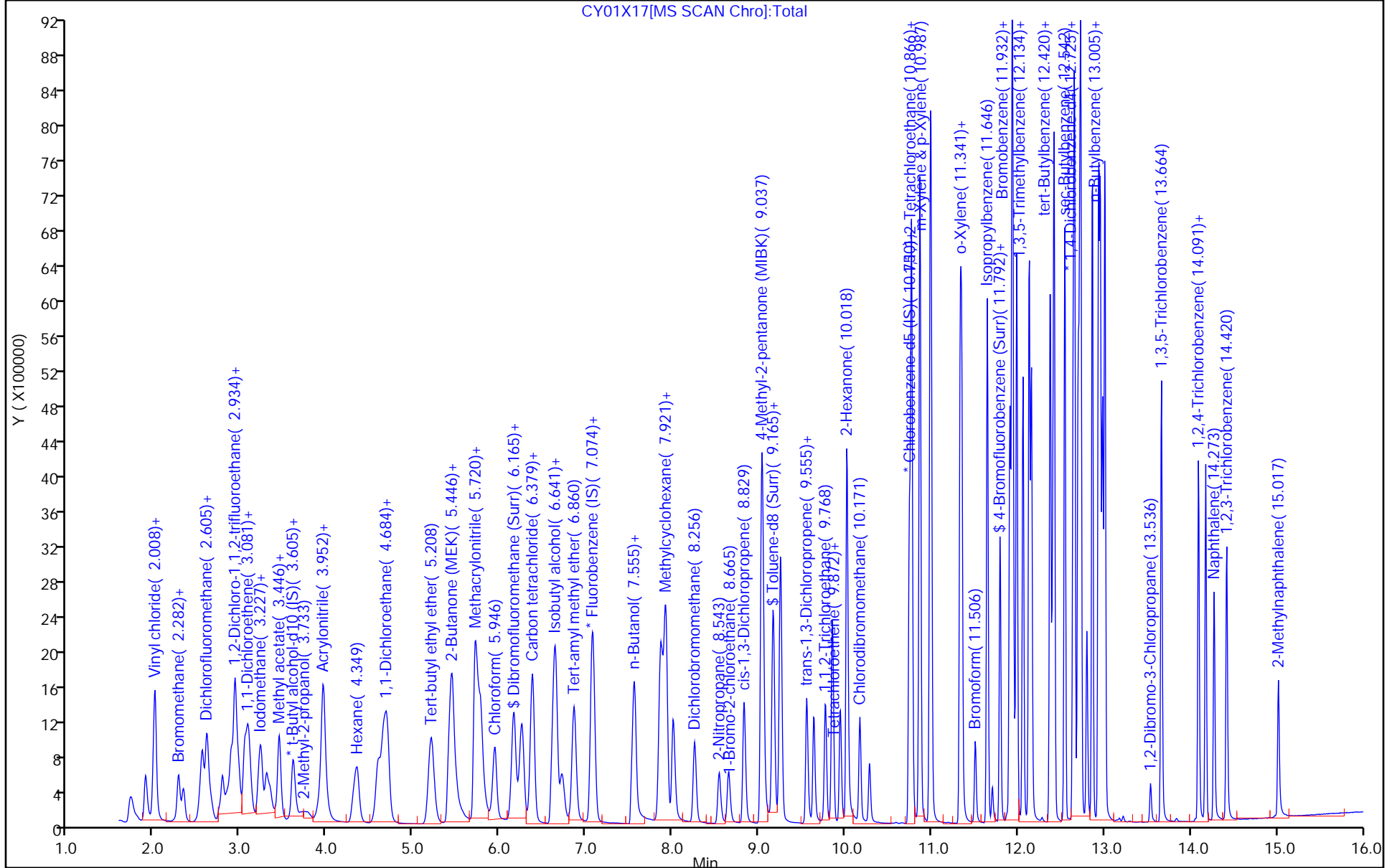
ALS Bottle#: 17

Method: MSV_10193_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

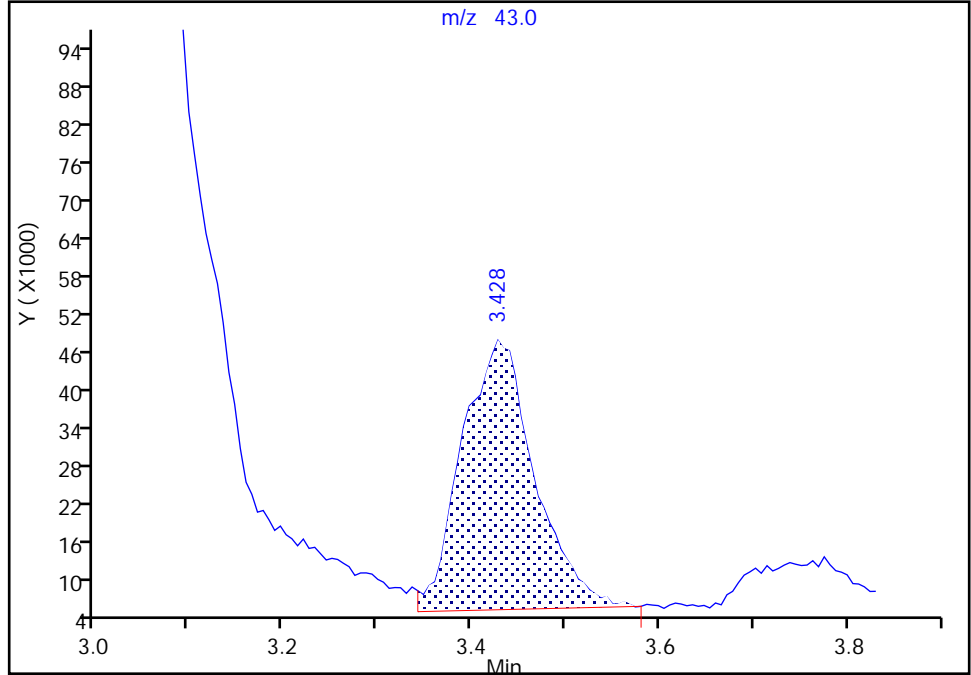
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X17.D
Injection Date: 01-May-2023 20:52:30 Instrument ID: 10193
Lims ID: ICIS 10
Client ID:
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

26 Methyl acetate, CAS: 79-20-9

Signal: 1

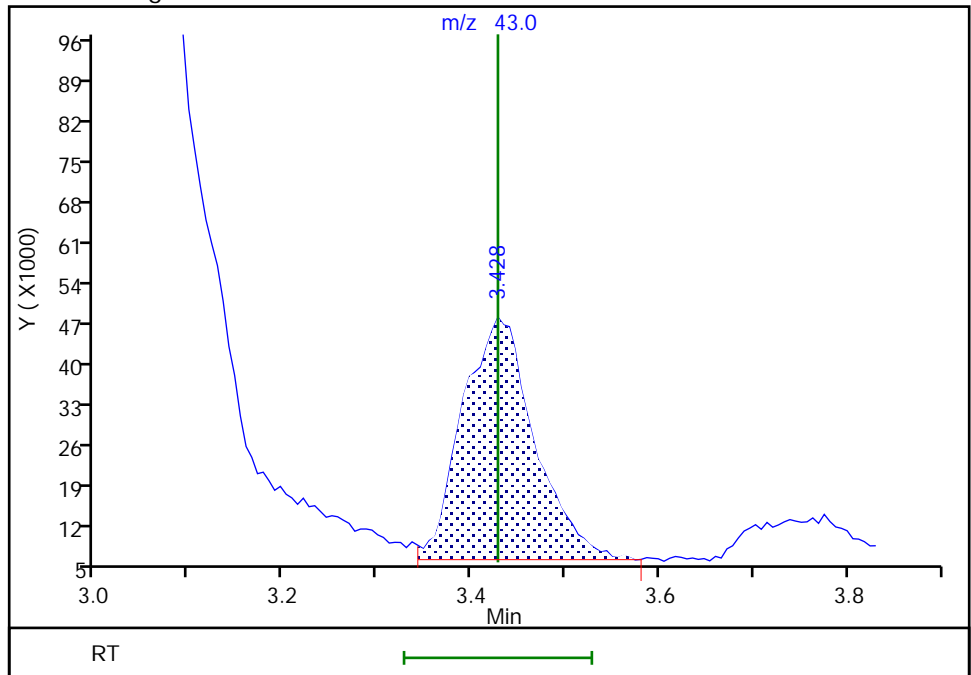
RT: 3.43
Area: 230020
Amount: 9.464779
Amount Units: ug/l

Processing Integration Results



RT: 3.43
Area: 225184
Amount: 9.292204
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 13:46:55 -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\10193\20230501-82854.b\CY01X18.D
 Lims ID: IC std7 25
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 01-May-2023 21:14:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0082854-019
 Misc. Info.: IC STD7 25
 Operator ID: knk41612 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 04-May-2023 07:28:02 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: DVW2

Date: 02-May-2023 08:06:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.715	1.733	-0.018	99	1844486	25.0	24.4	Ma
5 Chloromethane	50	1.892	1.898	-0.006	99	2053703	25.0	23.2	
6 Vinyl chloride	62	1.989	1.995	-0.006	98	1996257	25.0	23.5	
7 Butadiene	39	2.001	2.008	-0.007	92	1830187	25.0	23.2	
9 Bromomethane	94	2.270	2.282	-0.012	90	1295233	25.0	22.4	
10 Chloroethane	64	2.331	2.337	-0.007	100	1139267	25.0	22.9	
11 Dichlorofluoromethane	67	2.550	2.556	-0.006	97	2753793	25.0	23.4	
12 Trichlorofluoromethane	101	2.605	2.605	0.000	98	2462862	25.0	24.3	
13 Pentane	43	2.599	2.611	-0.012	96	2171773	25.0	26.1	
14 Ethyl ether	59	2.776	2.788	-0.012	92	1264048	25.0	24.1	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.873	2.879	-0.006	93	1692291	25.0	23.5	
17 Acrolein	56	2.928	2.934	-0.006	100	8476126	1250.0	1226.6	
18 1,1-Dichloroethene	96	3.044	3.050	-0.006	97	1264796	25.0	24.8	
20 Acetone	43	3.068	3.074	-0.006	99	1803785	250.0	229.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.086	3.093	-0.007	93	1310879	25.0	25.3	
22 Iodomethane	142	3.214	3.215	-0.001	98	2627805	25.0	24.6	
24 Isopropyl alcohol	45	3.227	3.227	0.000	95	769580	500.0	505.0	
23 Ethyl bromide	108	3.227	3.239	-0.012	98	1256128	25.0	24.4	
25 Carbon disulfide	76	3.324	3.300	0.024	99	4607376	25.0	25.9	M
26 Methyl acetate	43	3.422	3.428	-0.006	95	594611	25.0	23.6	M
29 3-Chloro-1-propene	41	3.434	3.446	-0.012	91	2403755	25.0	26.2	
30 Methylene Chloride	84	3.599	3.605	-0.006	92	1560380	25.0	25.5	
* 31 t-Butyl alcohol-d10 (IS)	65	3.647	3.641	0.006	94	164937	50.0	50.0	M
32 2-Methyl-2-propanol	59	3.739	3.769	-0.030	100	1433141	500.0	453.2	
33 Acrylonitrile	53	3.891	3.910	-0.019	99	665837	62.5	58.5	
34 Methyl tert-butyl ether	73	3.946	3.952	-0.006	96	4392031	25.0	24.9	
35 trans-1,2-Dichloroethene	96	3.946	3.952	-0.006	99	1599363	25.0	25.6	
36 Hexane	57	4.330	4.349	-0.019	93	2124723	25.0	26.8	
37 1,1-Dichloroethane	63	4.574	4.586	-0.012	96	2906162	25.0	25.7	
39 Isopropyl ether	45	4.647	4.653	-0.006	93	5297680	25.0	25.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.690	4.696	-0.006	91	2471250	25.0	27.0	
41 Tert-butyl ethyl ether	59	5.202	5.208	-0.006	98	5266739	25.0	25.5	
42 2-Butanone (MEK)	43	5.403	5.409	-0.006	99	3911262	250.0	251.1	
43 cis-1,2-Dichloroethene	96	5.440	5.446	-0.006	82	1771507	25.0	25.9	
44 2,2-Dichloropropane	77	5.446	5.452	-0.006	87	2433226	25.0	24.3	
45 Propionitrile	54	5.507	5.507	0.000	99	1901348	500.0	558.6	
47 Methacrylonitrile	67	5.714	5.720	-0.006	92	4351557	250.0	260.3	
48 Chlorobromomethane	128	5.775	5.781	-0.006	94	813810	25.0	25.6	
49 Tetrahydrofuran	71	5.787	5.787	0.000	87	573319	125.0	115.1	
50 Chloroform	83	5.933	5.940	-0.007	94	2902504	25.0	25.7	
S 52 1,2-Dichloroethene, Total	100				0			51.6	
53 1,1,1-Trichloroethane	97	6.159	6.159	0.000	98	2519111	25.0	25.3	
\$ 54 Dibromofluoromethane (Surr)	113	6.159	6.165	-0.006	95	519136	10.0	9.87	
55 Cyclohexane	56	6.257	6.257	0.000	91	2674137	25.0	26.4	
56 Carbon tetrachloride	117	6.372	6.373	-0.001	97	2249142	25.0	26.4	
57 1,1-Dichloropropene	75	6.379	6.379	-0.001	97	2227588	25.0	26.4	
58 Isobutyl alcohol	41	6.598	6.604	-0.006	94	1170943	1250.0	1466.2	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.622	6.616	0.006	98	101150	10.0	9.76	
60 Benzene	78	6.641	6.647	-0.006	96	6672524	25.0	25.9	
61 1,2-Dichloroethane	62	6.720	6.720	0.000	98	1842605	25.0	24.7	
64 Tert-amyl methyl ether	73	6.860	6.860	0.000	98	4866379	25.0	25.5	
* 65 Fluorobenzene (IS)	96	7.061	7.068	-0.007	99	2018771	10.0	10.0	
66 n-Heptane	43	7.080	7.086	-0.006	91	2285705	25.0	27.6	
67 n-Butanol	56	7.512	7.531	-0.019	88	1850544	2187.5	2232.6	
68 Trichloroethene	95	7.555	7.555	0.000	98	1783349	25.0	26.1	
69 Methylcyclohexane	83	7.860	7.860	0.000	91	2945100	25.0	26.8	
70 1,2-Dichloropropane	63	7.890	7.891	-0.001	97	1773636	25.0	26.2	
71 2-ethoxy-2-methyl butane	87	7.921	7.927	-0.006	93	2873999	25.0	26.5	
72 Dibromomethane	93	8.006	8.006	0.000	82	847077	25.0	25.3	
73 Methyl methacrylate	69	8.006	8.006	0.000	91	888840	25.0	27.1	
74 1,4-Dioxane	88	8.006	8.012	-0.006	31	224469	1250.0	1284.6	
76 Dichlorobromomethane	83	8.256	8.256	0.000	99	2229368	25.0	26.1	
77 2-Nitropropane	41	8.537	8.543	-0.006	97	1349583	125.0	128.5	
78 1-Bromo-2-chloroethane	63	8.646	8.653	-0.007	99	1809535	25.0	25.5	
80 cis-1,3-Dichloropropene	75	8.829	8.829	0.000	96	2867048	25.0	27.3	
82 4-Methyl-2-pentanone (MIBK)	43	9.037	9.037	0.000	96	11243259	250.0	260.4	
\$ 83 Toluene-d8 (Surr)	98	9.165	9.165	0.000	93	2275720	10.0	10.1	
84 Toluene	92	9.250	9.250	0.000	98	4491756	25.0	25.9	
85 trans-1,3-Dichloropropene	75	9.555	9.555	0.000	93	2506031	25.0	28.9	
86 Ethyl methacrylate	69	9.634	9.634	0.000	89	1973360	25.0	28.1	
87 1,1,2-Trichloroethane	97	9.768	9.768	0.000	91	1280918	25.0	24.8	
88 Tetrachloroethene	166	9.853	9.854	-0.001	98	2093101	25.0	25.6	
89 1,3-Dichloropropane	76	9.945	9.945	0.000	91	2183412	25.0	26.3	
106 2-Hexanone	43	10.018	10.018	0.000	95	8074177	250.0	286.9	
S 107 1,3-Dichloropropene, Total	100				0			56.3	
108 Chlorodibromomethane	129	10.170	10.171	-0.001	90	1745989	25.0	26.9	
110 Ethylene Dibromide	107	10.280	10.280	0.000	99	1278456	25.0	26.3	
* 111 Chlorobenzene-d5 (IS)	117	10.744	10.744	0.000	85	1882414	10.0	10.0	
112 1-Chlorohexane	91	10.768	10.768	0.000	98	2493152	25.0	25.2	
113 Chlorobenzene	112	10.768	10.774	-0.006	95	5284095	25.0	25.6	
114 1,1,1,2-Tetrachloroethane	131	10.859	10.859	0.000	97	1866782	25.0	26.0	
115 Ethylbenzene	91	10.865	10.866	-0.001	98	8885505	25.0	26.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	10.993	10.987	0.006	97	7042683	50.0	52.0	
S 117 Xylenes, Total	106				0			78.0	
118 o-Xylene	106	11.335	11.335	0.000	96	3478903	25.0	25.9	
119 Styrene	104	11.347	11.353	-0.006	95	5931671	25.0	27.1	
120 Bromoform	173	11.506	11.506	0.000	98	1129792	25.0	27.6	
121 Isopropylbenzene	105	11.646	11.646	0.000	96	8821261	25.0	25.6	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.792	0.000	92	980752	10.0	10.2	
125 Bromobenzene	156	11.908	11.908	0.000	93	2329923	25.0	25.1	
126 1,1,2,2-Tetrachloroethane	83	11.908	11.908	0.000	81	1706677	25.0	25.4	
127 trans-1,4-Dichloro-2-butene	53	11.932	11.932	0.000	91	4660377	250.0	288.4	
128 1,2,3-Trichloropropane	110	11.951	11.951	0.000	79	442287	25.0	25.0	
129 N-Propylbenzene	91	11.987	11.987	0.000	98	10512116	25.0	25.5	
130 2-Chlorotoluene	126	12.060	12.060	0.000	97	2274300	25.0	25.5	
131 1,3,5-Trimethylbenzene	105	12.133	12.134	-0.001	94	7967765	25.0	25.7	
132 4-Chlorotoluene	126	12.158	12.158	0.000	97	2397519	25.0	26.1	
133 tert-Butylbenzene	134	12.377	12.377	0.000	93	1742272	25.0	24.5	
134 Pentachloroethane	167	12.408	12.408	0.000	95	1483426	25.0	25.6	
135 1,2,4-Trimethylbenzene	105	12.420	12.420	0.000	97	8353257	25.0	26.2	
136 sec-Butylbenzene	105	12.542	12.542	0.000	95	9867631	25.0	25.2	
137 1,3-Dichlorobenzene	146	12.639	12.640	-0.001	98	4699075	25.0	26.1	
138 4-Isopropyltoluene	119	12.658	12.658	0.000	96	8904015	25.0	25.4	
* 139 1,4-Dichlorobenzene-d4	152	12.694	12.701	-0.007	94	1202079	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.713	12.719	-0.006	95	4599614	25.0	25.4	
141 1,2,3-Trimethylbenzene	120	12.731	12.731	0.000	98	3759555	25.0	25.4	
142 Benzyl chloride	126	12.798	12.798	0.000	98	804820	25.0	29.4	
145 p-Diethylbenzene	119	12.932	12.932	0.000	96	5653514	25.0	26.2	
143 n-Butylbenzene	92	12.956	12.957	-0.001	98	4480154	25.0	27.5	
144 1,2-Dichlorobenzene	146	12.981	12.981	0.000	98	4378271	25.0	26.1	
148 1,2-Dibromo-3-Chloropropane	155	13.536	13.536	0.000	88	263897	25.0	29.1	
149 1,3,5-Trichlorobenzene	180	13.664	13.664	0.000	98	3707538	25.0	26.2	
150 1,2,4-Trichlorobenzene	180	14.090	14.091	-0.001	94	3064699	25.0	28.4	
151 Hexachlorobutadiene	225	14.176	14.176	0.000	97	1602514	25.0	25.2	
152 Naphthalene	128	14.273	14.273	0.000	97	5073149	25.0	29.3	
153 1,2,3-Trichlorobenzene	180	14.420	14.420	0.000	96	2450351	25.0	28.7	
154 2-Methylnaphthalene	142	15.017	15.017	0.000	92	2310857	25.0	26.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00075

Amount Added: 25.00

Units: uL

MSV_LL_#2_826_00083

Amount Added: 25.00

Units: uL

MSV_LL_GAS826_00148

Amount Added: 25.00

Units: uL

MSV_HP25_ISSS_00068

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D

Injection Date: 01-May-2023 21:14:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: IC std7 25

Worklist Smp#: 19

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

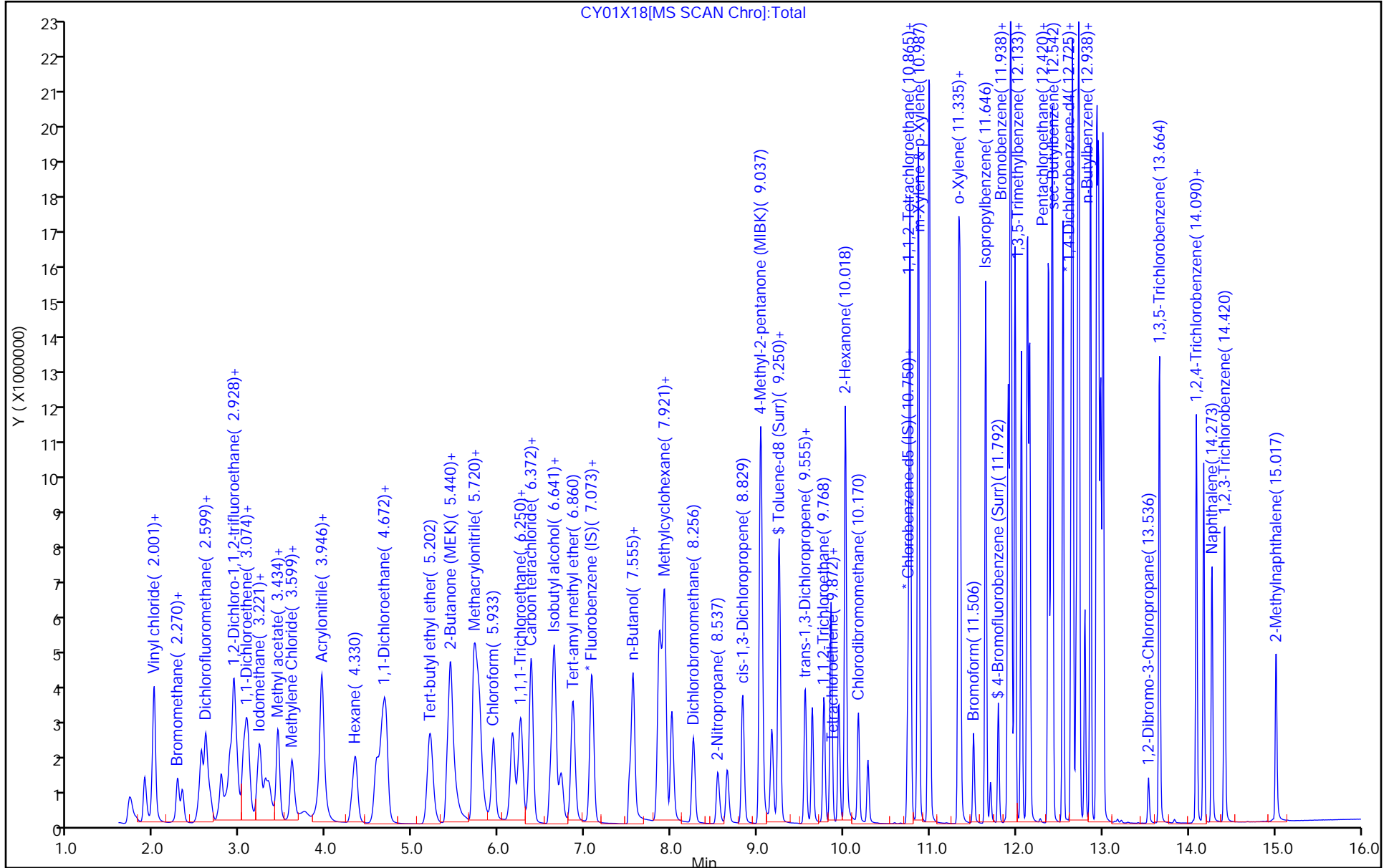
ALS Bottle#: 18

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

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



Eurofins Lancaster Laboratories Environment Testing, LLC

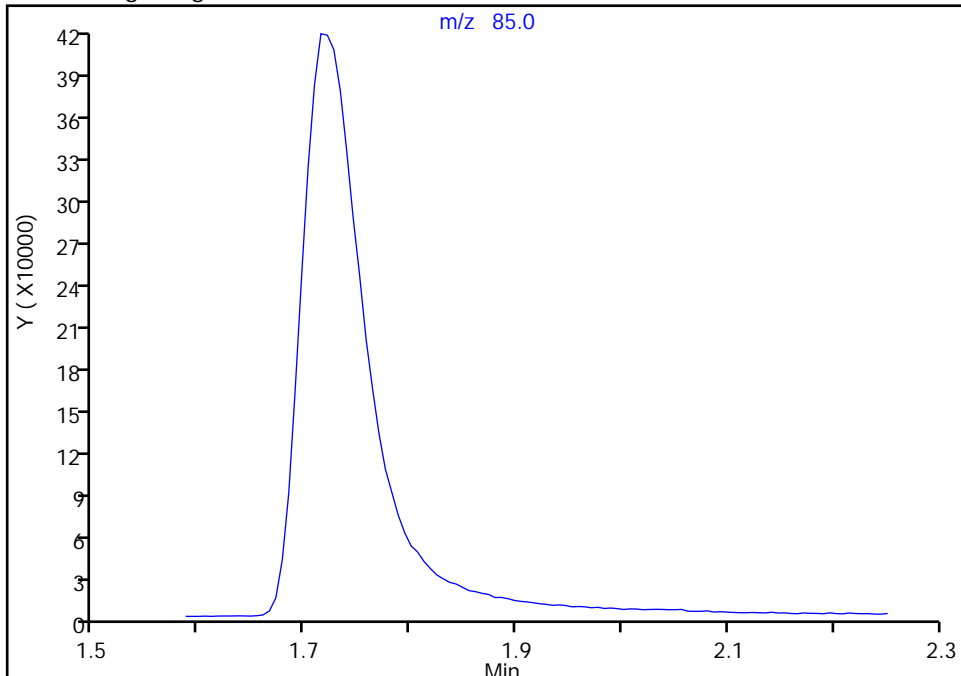
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Injection Date: 01-May-2023 21:14:30 Instrument ID: 10193
Lims ID: IC std7 25
Client ID:
Operator ID: knk41612 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

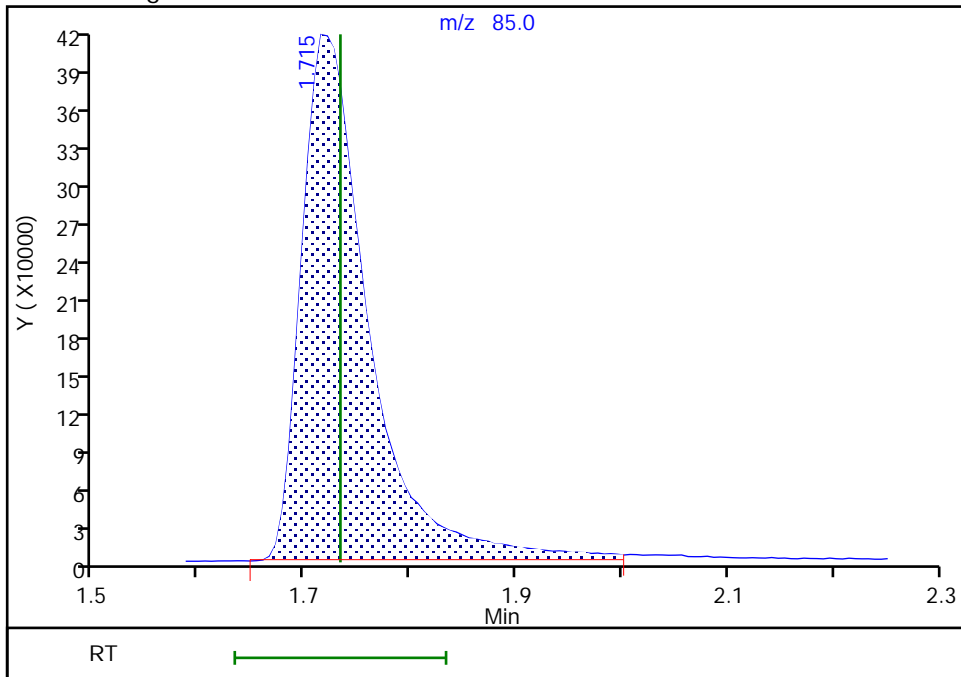
Not Detected
Expected RT: 1.73

Processing Integration Results



Manual Integration Results

RT: 1.71
Area: 1844486
Amount: 24.392940
Amount Units: ug/l



Reviewer: DVW2, 02-May-2023 08:06:32 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

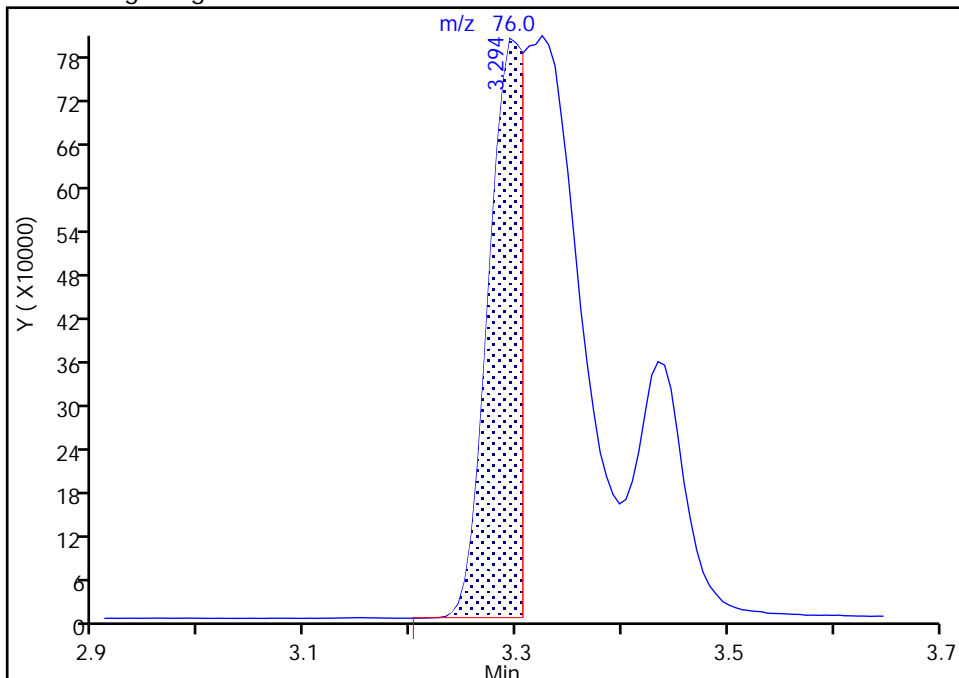
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Injection Date: 01-May-2023 21:14:30 Instrument ID: 10193
Lims ID: IC std7 25
Client ID:
Operator ID: knk41612 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

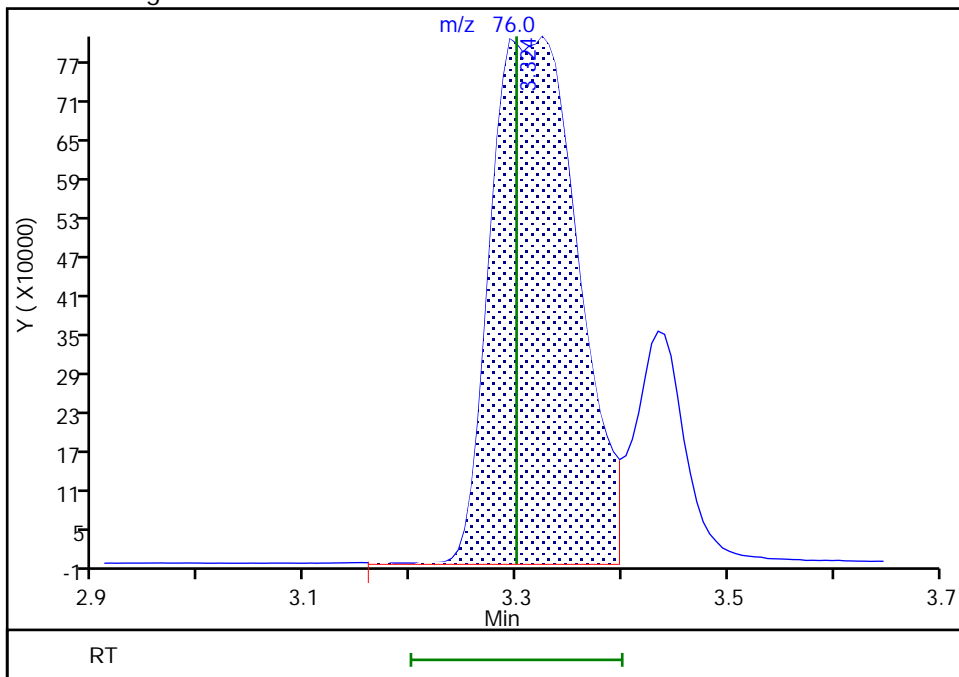
RT: 3.29
Area: 1839190
Amount: 11.367076
Amount Units: ug/l

Processing Integration Results



RT: 3.32
Area: 4607376
Amount: 25.939811
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 08:07:14 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

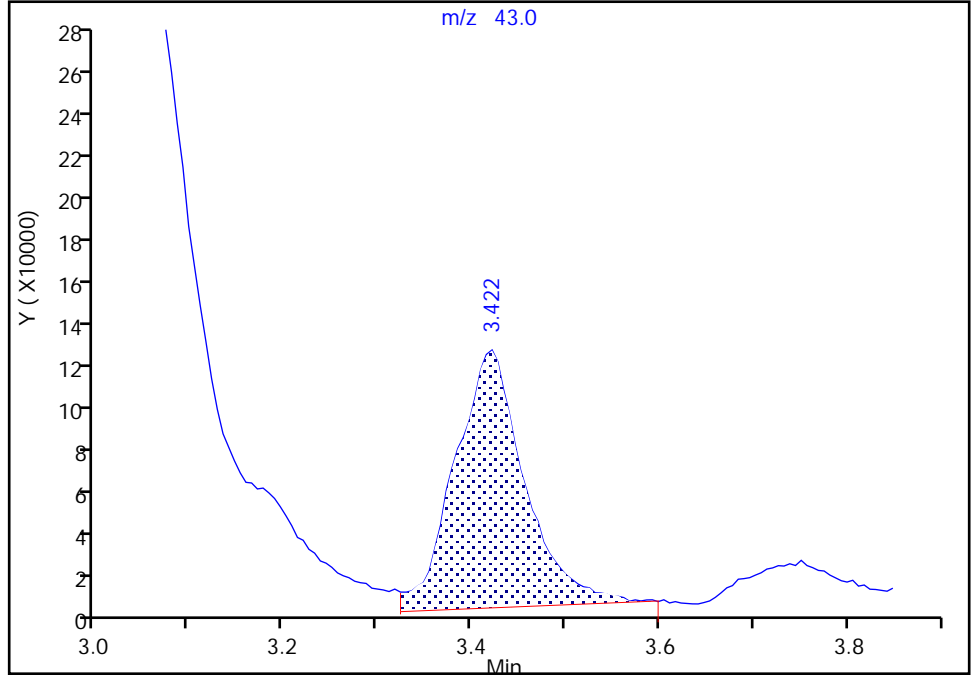
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Injection Date: 01-May-2023 21:14:30 Instrument ID: 10193
Lims ID: IC std7 25
Client ID:
Operator ID: knk41612 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

26 Methyl acetate, CAS: 79-20-9

Signal: 1

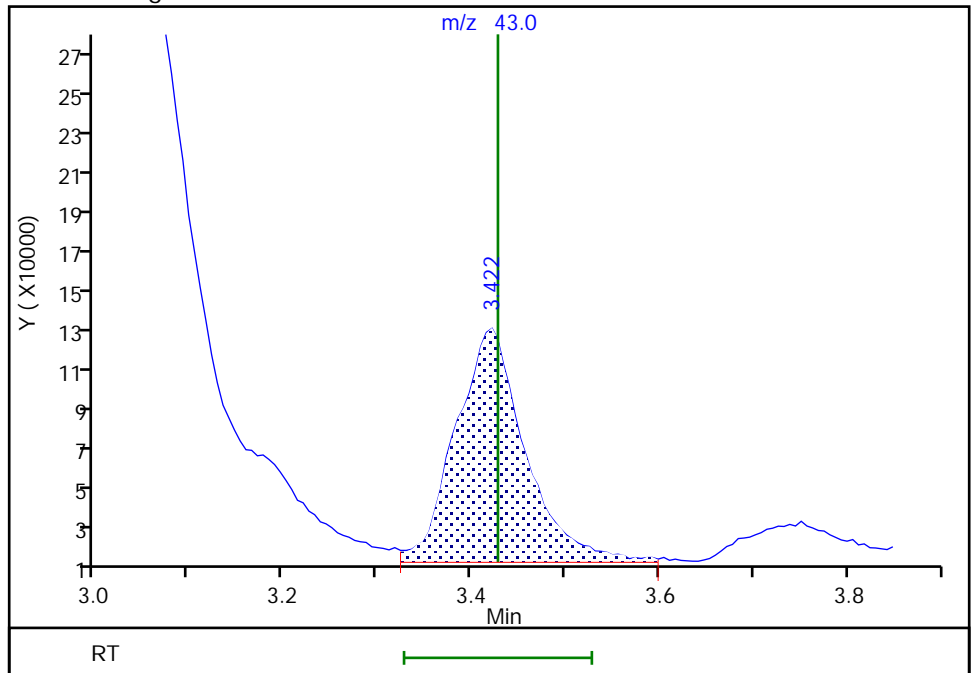
RT: 3.42
Area: 618437
Amount: 27.744621
Amount Units: ug/l

Processing Integration Results



RT: 3.42
Area: 594611
Amount: 23.588368
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 08:07:23 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

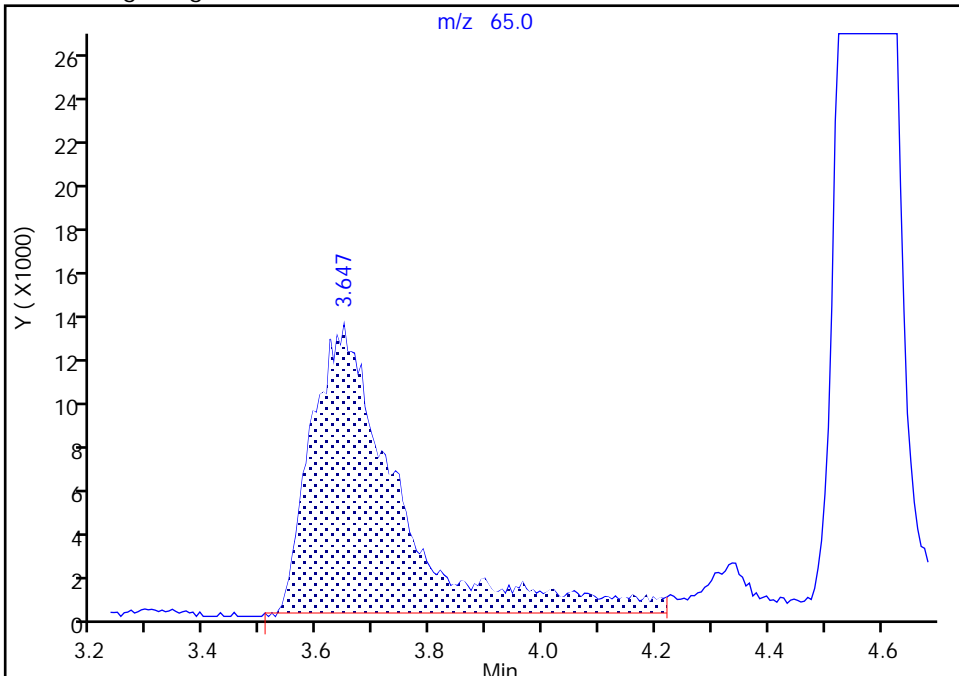
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Injection Date: 01-May-2023 21:14:30 Instrument ID: 10193
Lims ID: IC std7 25
Client ID:
Operator ID: knk41612 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 31 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

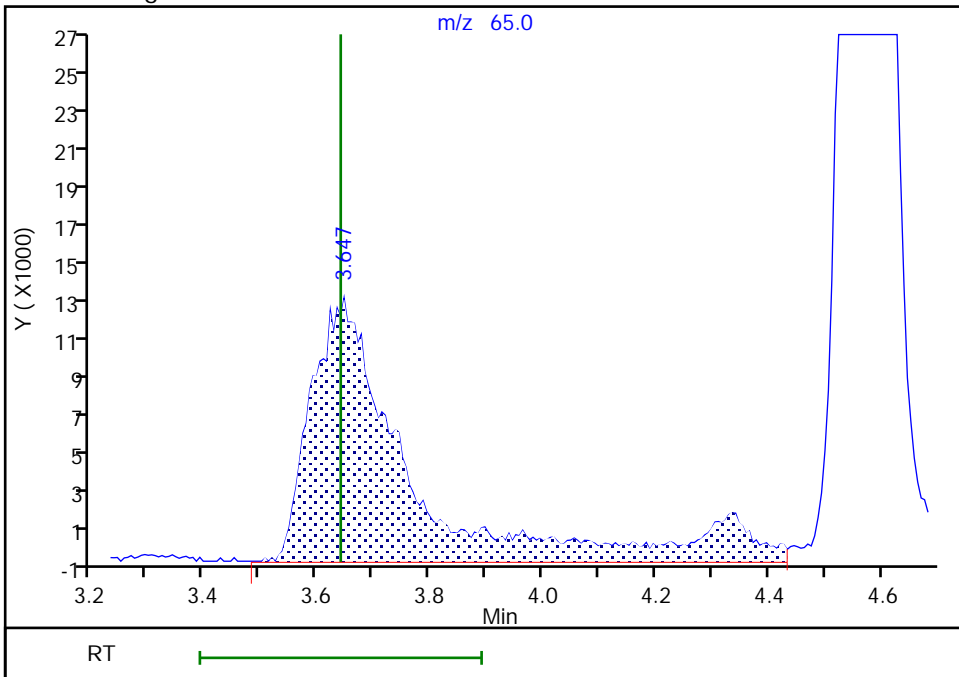
RT: 3.65
Area: 141750
Amount: 50.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.65
Area: 164937
Amount: 50.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 02-May-2023 08:07:41 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Calibration

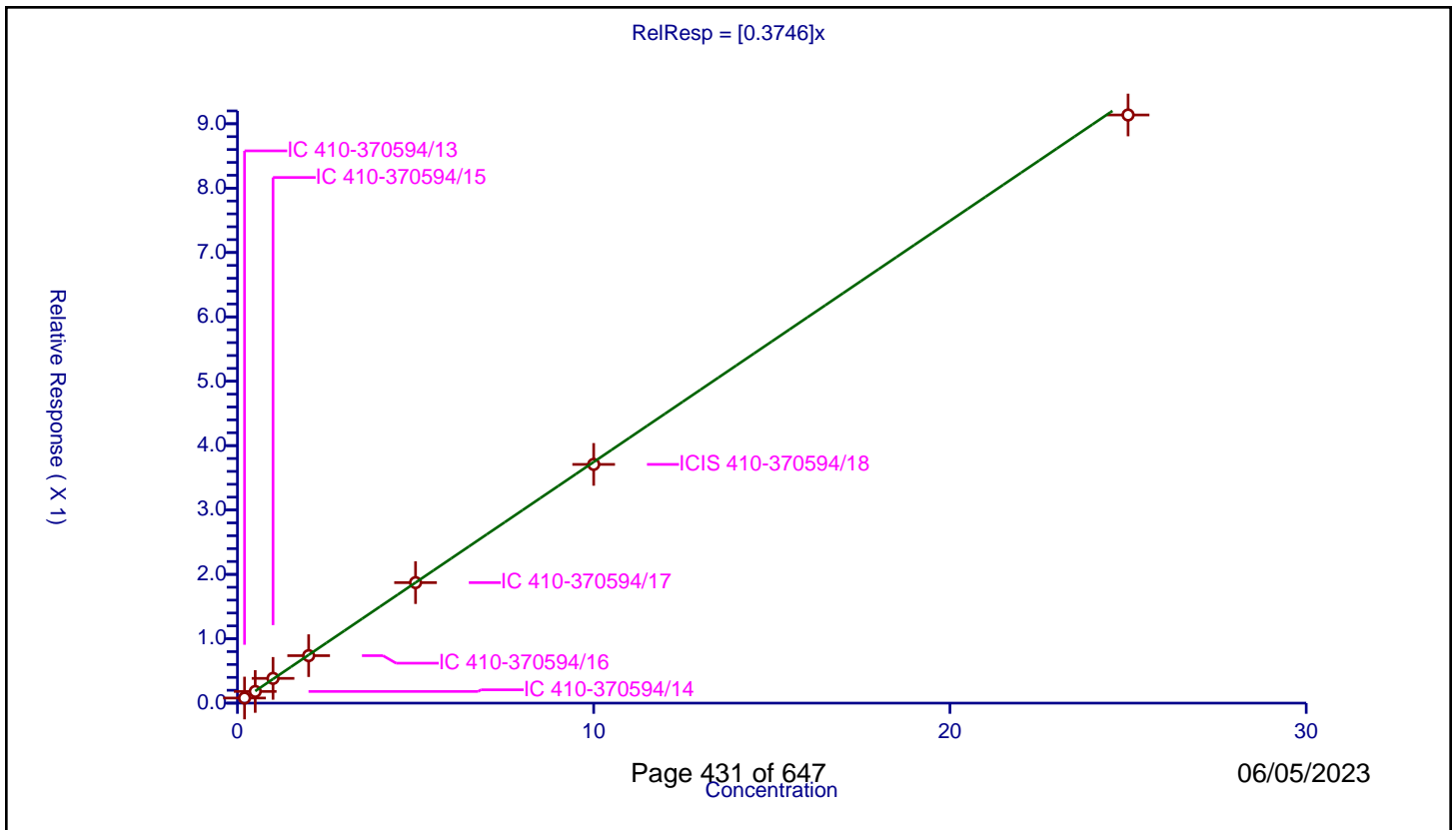
/ Dichlorodifluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3746

Error Coefficients	
Standard Error:	827000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.079023	10.0	1960073.0	0.395113	Y
2	IC 410-370594/14	0.5	0.181399	10.0	1943779.0	0.362798	Y
3	IC 410-370594/15	1.0	0.384618	10.0	1958541.0	0.384618	Y
4	IC 410-370594/16	2.0	0.737351	10.0	1967571.0	0.368675	Y
5	IC 410-370594/17	5.0	1.872093	10.0	1980922.0	0.374419	Y
6	ICIS 410-370594/18	10.0	3.708464	10.0	1979051.0	0.370846	Y
7	IC 410-370594/19	25.0	9.136678	10.0	2018771.0	0.365467	Y



Calibration

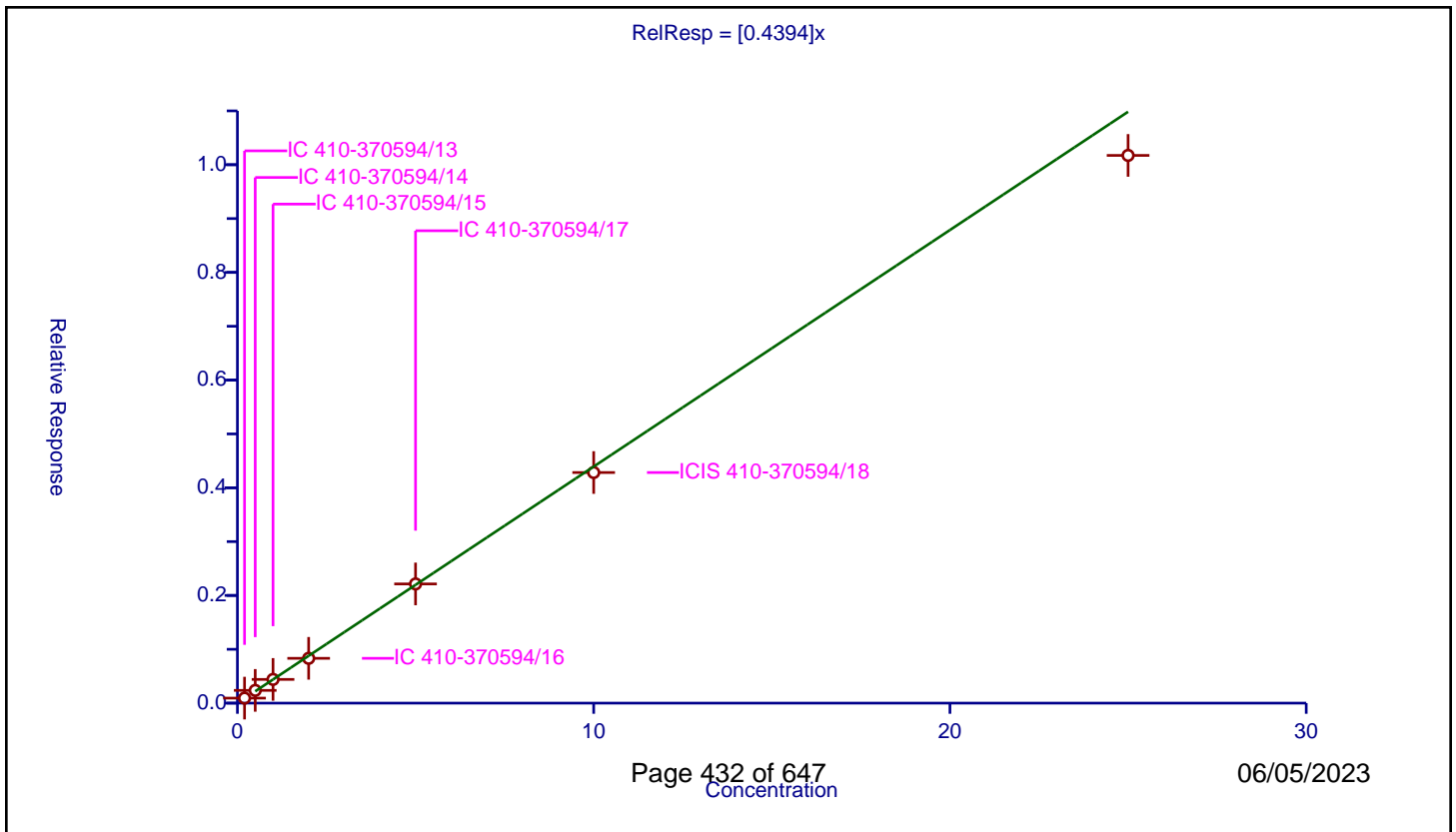
/ Chloromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4394

Error Coefficients	
Standard Error:	928000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.093471	10.0	1960073.0	0.467355	Y
2	IC 410-370594/14	0.5	0.236622	10.0	1943779.0	0.473243	Y
3	IC 410-370594/15	1.0	0.440675	10.0	1958541.0	0.440675	Y
4	IC 410-370594/16	2.0	0.832488	10.0	1967571.0	0.416244	Y
5	IC 410-370594/17	5.0	2.213722	10.0	1980922.0	0.442744	Y
6	ICIS 410-370594/18	10.0	4.283144	10.0	1979051.0	0.428314	Y
7	IC 410-370594/19	25.0	10.173036	10.0	2018771.0	0.406921	Y



Calibration

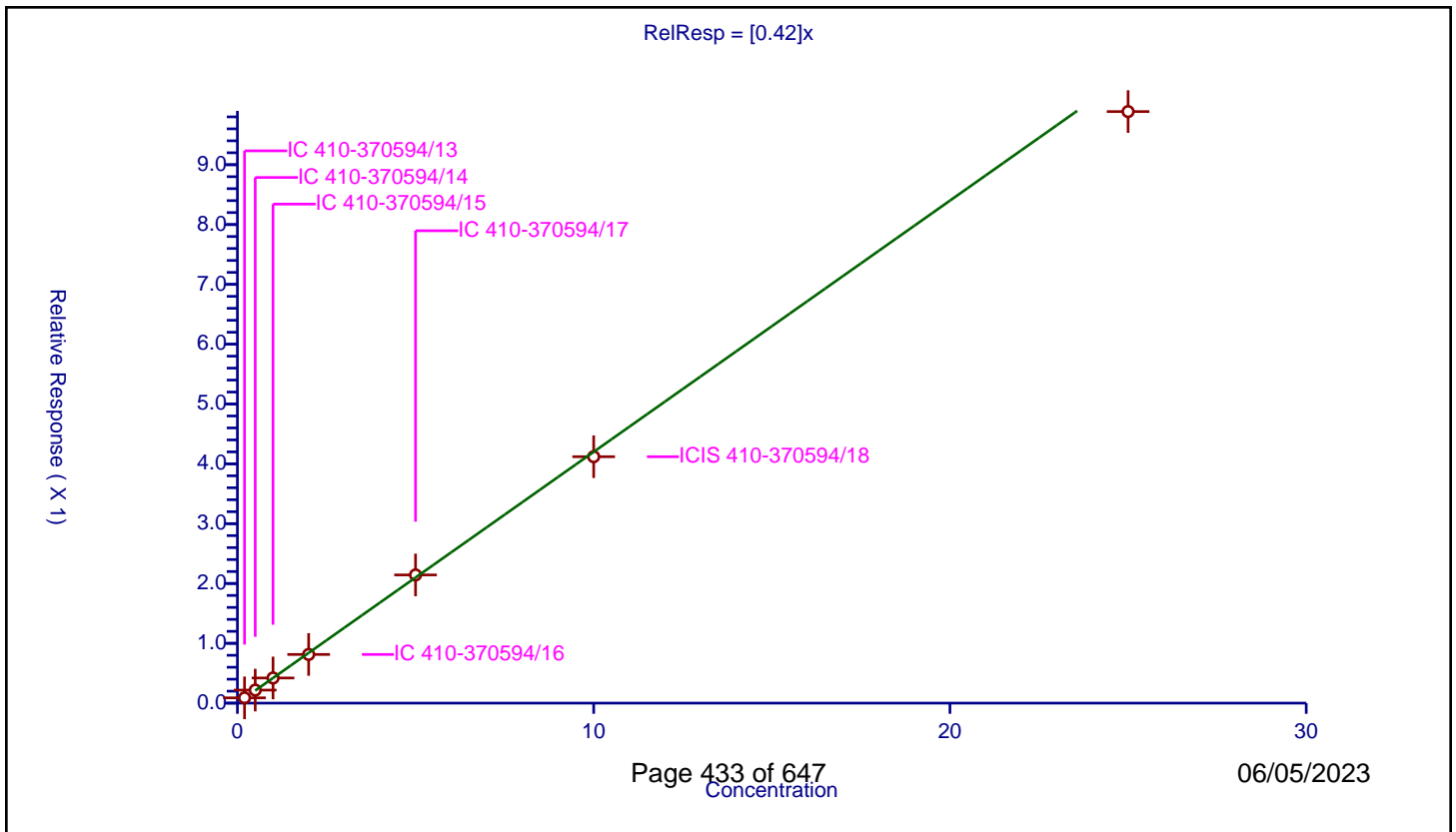
/ Vinyl chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.42

Error Coefficients	
Standard Error:	900000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.088221	10.0	1960073.0	0.441106	Y
2	IC 410-370594/14	0.5	0.217761	10.0	1943779.0	0.435523	Y
3	IC 410-370594/15	1.0	0.42043	10.0	1958541.0	0.42043	Y
4	IC 410-370594/16	2.0	0.813765	10.0	1967571.0	0.406882	Y
5	IC 410-370594/17	5.0	2.14282	10.0	1980922.0	0.428564	Y
6	ICIS 410-370594/18	10.0	4.119479	10.0	1979051.0	0.411948	Y
7	IC 410-370594/19	25.0	9.888477	10.0	2018771.0	0.395539	Y



Calibration

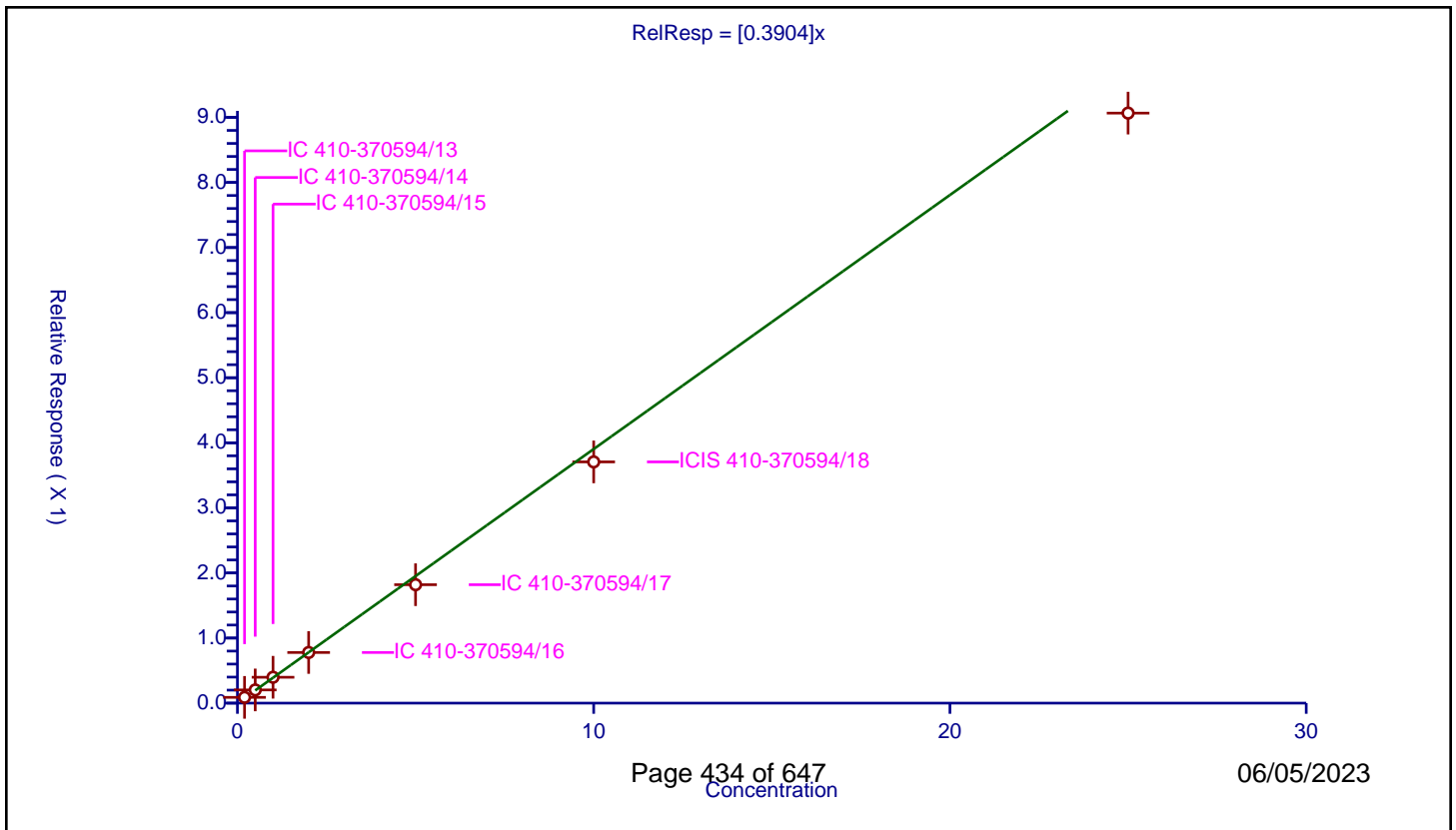
/ Butadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3904

Error Coefficients	
Standard Error:	821000
Relative Standard Error:	7.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.088629	10.0	1960073.0	0.443147	Y
2	IC 410-370594/14	0.5	0.202739	10.0	1943779.0	0.405478	Y
3	IC 410-370594/15	1.0	0.397699	10.0	1958541.0	0.397699	Y
4	IC 410-370594/16	2.0	0.778056	10.0	1967571.0	0.389028	Y
5	IC 410-370594/17	5.0	1.819834	10.0	1980922.0	0.363967	Y
6	ICIS 410-370594/18	10.0	3.706595	10.0	1979051.0	0.370659	Y
7	IC 410-370594/19	25.0	9.065847	10.0	2018771.0	0.362634	Y



Calibration

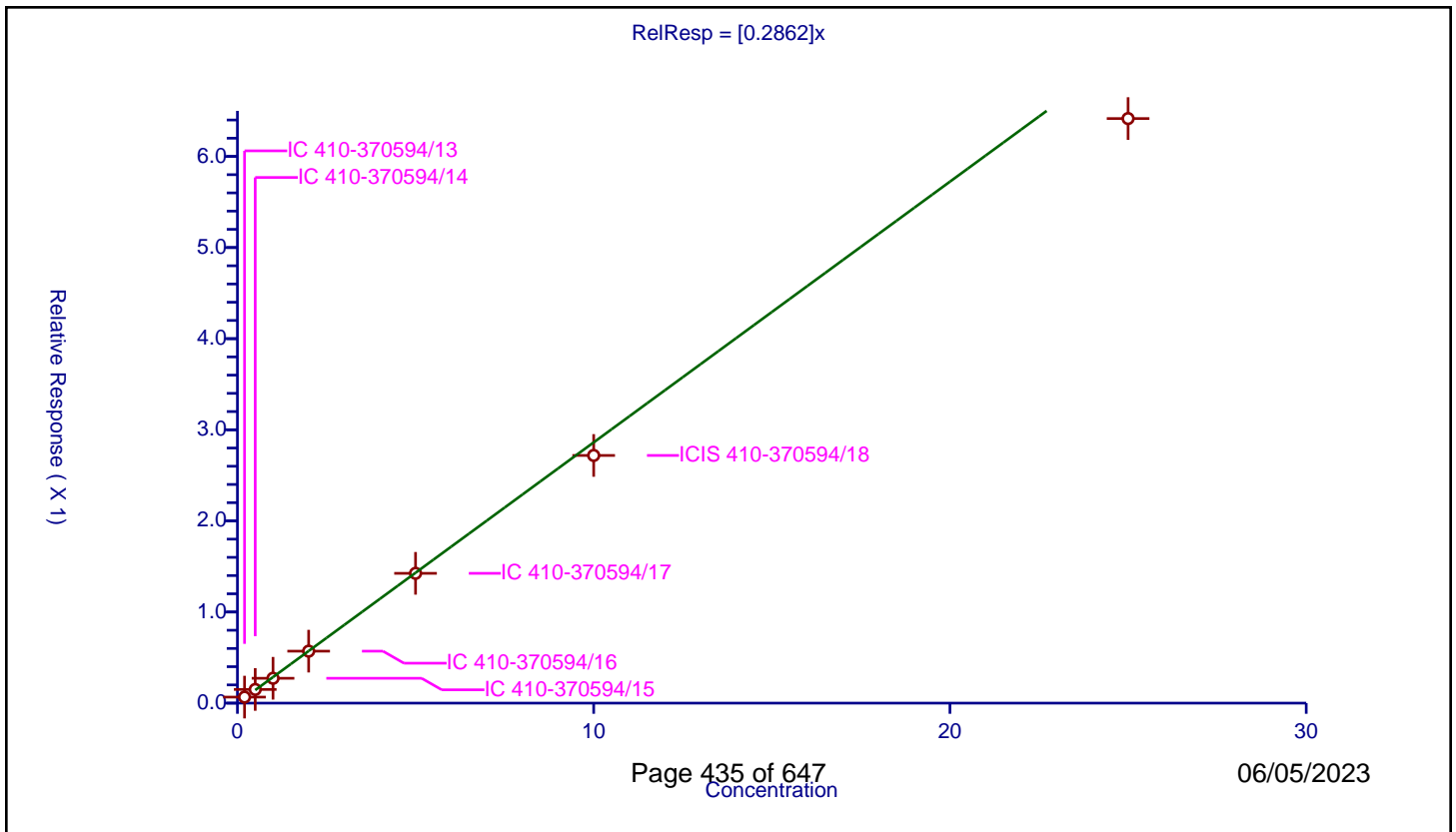
/ Bromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2862

Error Coefficients	
Standard Error:	586000
Relative Standard Error:	8.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.066288	10.0	1960073.0	0.331442	Y
2	IC 410-370594/14	0.5	0.15012	10.0	1943779.0	0.30024	Y
3	IC 410-370594/15	1.0	0.27282	10.0	1958541.0	0.27282	Y
4	IC 410-370594/16	2.0	0.57046	10.0	1967571.0	0.28523	Y
5	IC 410-370594/17	5.0	1.424655	10.0	1980922.0	0.284931	Y
6	ICIS 410-370594/18	10.0	2.718273	10.0	1979051.0	0.271827	Y
7	IC 410-370594/19	25.0	6.415948	10.0	2018771.0	0.256638	Y



Calibration

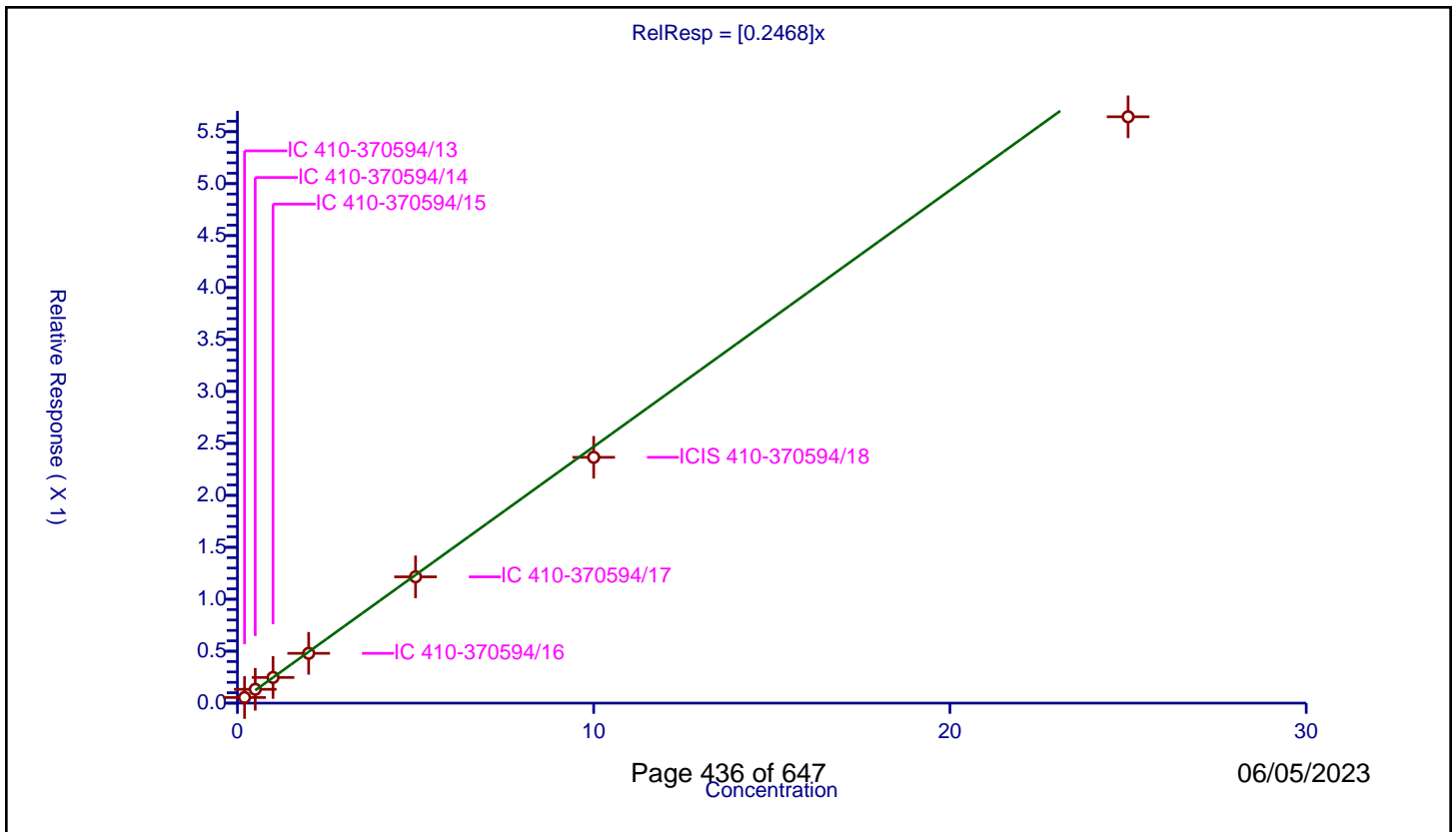
/ Chloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2468

Error Coefficients	
Standard Error:	514000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.053957	10.0	1960073.0	0.269786	Y
2	IC 410-370594/14	0.5	0.132891	10.0	1943779.0	0.265781	Y
3	IC 410-370594/15	1.0	0.246898	10.0	1958541.0	0.246898	Y
4	IC 410-370594/16	2.0	0.479205	10.0	1967571.0	0.239603	Y
5	IC 410-370594/17	5.0	1.215368	10.0	1980922.0	0.243074	Y
6	ICIS 410-370594/18	10.0	2.365831	10.0	1979051.0	0.236583	Y
7	IC 410-370594/19	25.0	5.643369	10.0	2018771.0	0.225735	Y



Calibration

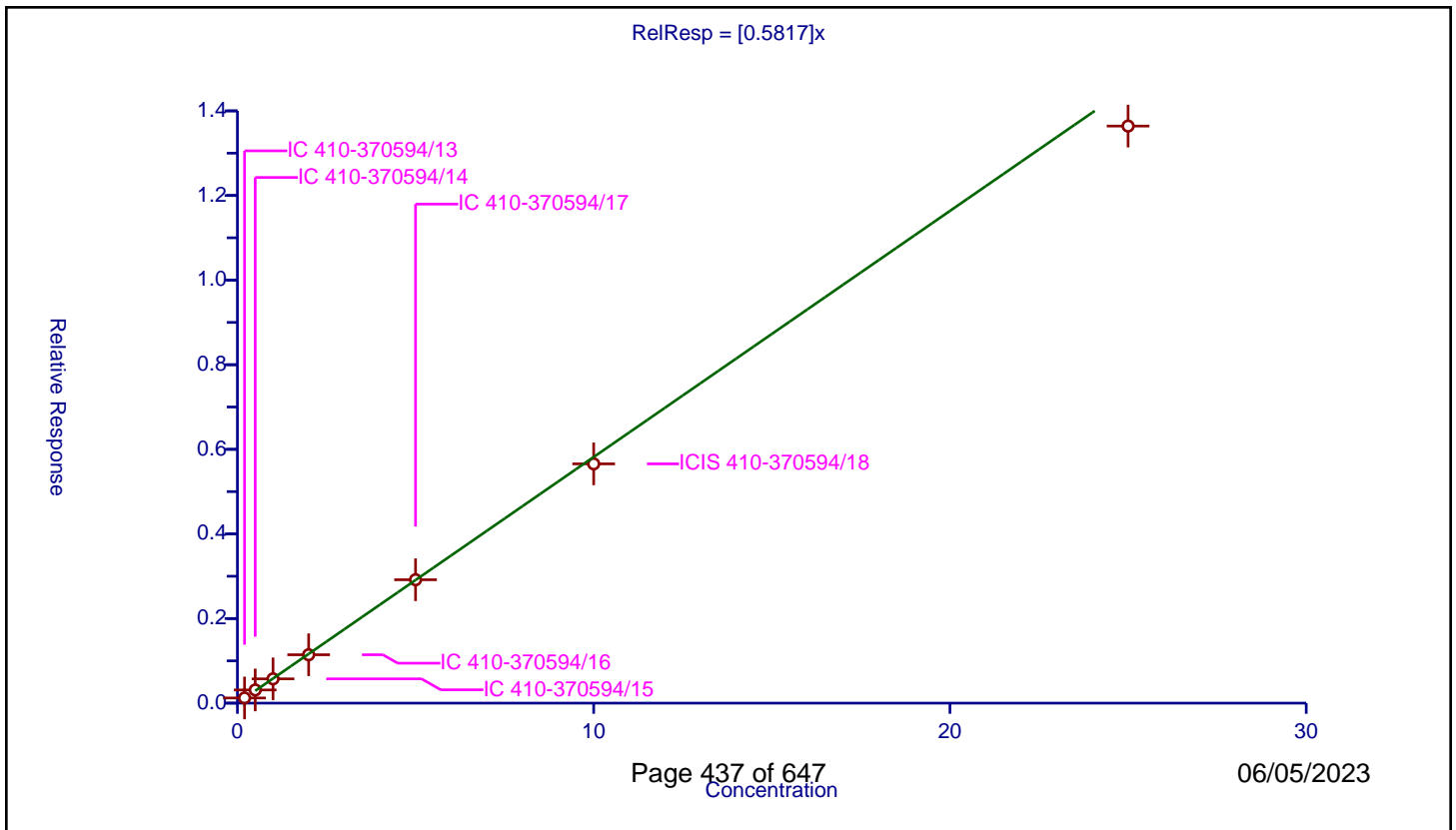
/ Dichlorofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5817

Error Coefficients	
Standard Error:	1240000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.12199	10.0	1960073.0	0.609952	Y
2	IC 410-370594/14	0.5	0.311044	10.0	1943779.0	0.622087	Y
3	IC 410-370594/15	1.0	0.573759	10.0	1958541.0	0.573759	Y
4	IC 410-370594/16	2.0	1.143872	10.0	1967571.0	0.571936	Y
5	IC 410-370594/17	5.0	2.916304	10.0	1980922.0	0.583261	Y
6	ICIS 410-370594/18	10.0	5.656004	10.0	1979051.0	0.5656	Y
7	IC 410-370594/19	25.0	13.640938	10.0	2018771.0	0.545638	Y



Calibration

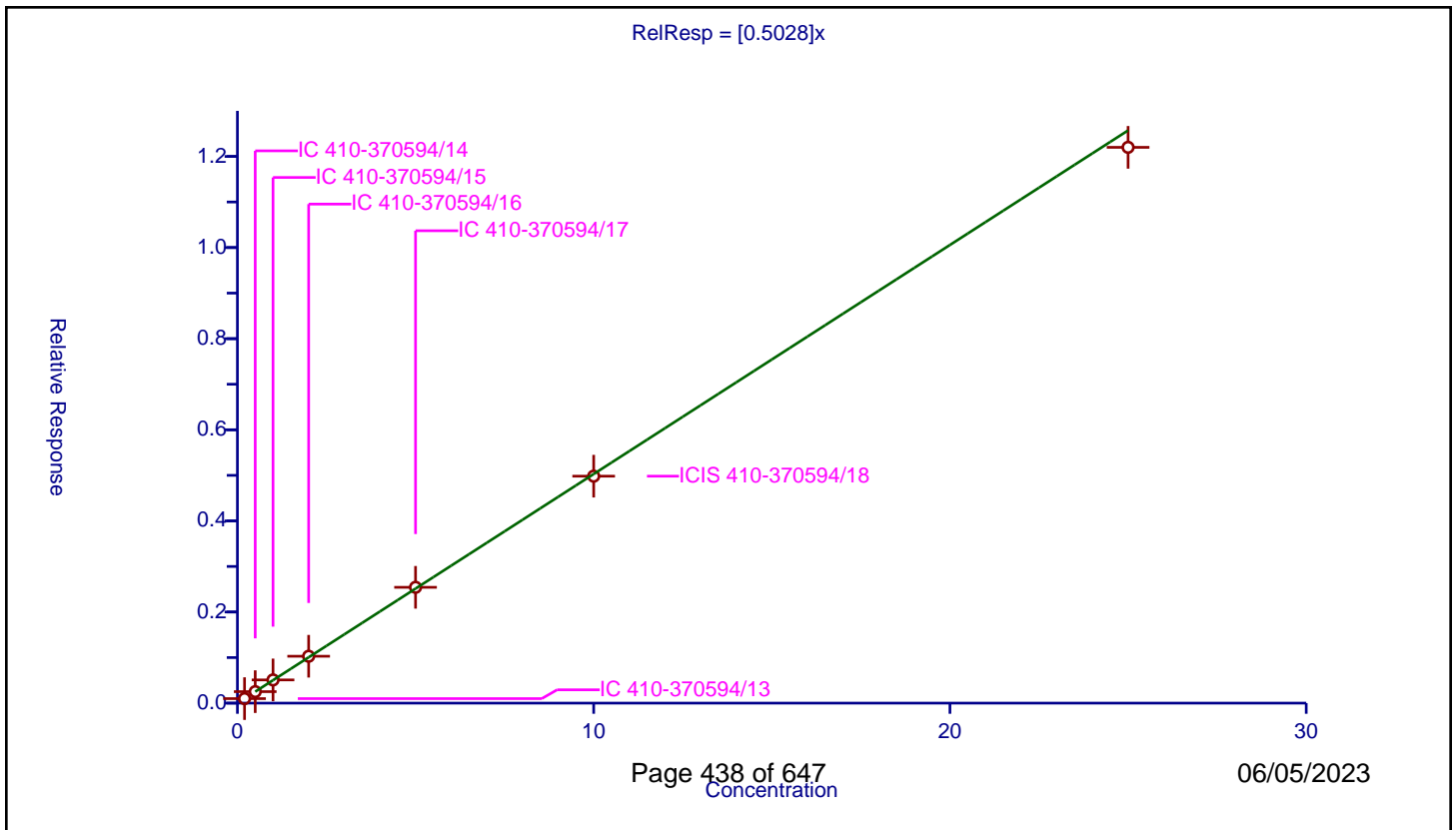
/ Trichlorofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5028

Error Coefficients	
Standard Error:	1110000
Relative Standard Error:	1.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.099333	10.0	1960073.0	0.496665	Y
2	IC 410-370594/14	0.5	0.252205	10.0	1943779.0	0.504409	Y
3	IC 410-370594/15	1.0	0.509599	10.0	1958541.0	0.509599	Y
4	IC 410-370594/16	2.0	1.029096	10.0	1967571.0	0.514548	Y
5	IC 410-370594/17	5.0	2.542488	10.0	1980922.0	0.508498	Y
6	ICIS 410-370594/18	10.0	4.98211	10.0	1979051.0	0.498211	Y
7	IC 410-370594/19	25.0	12.199809	10.0	2018771.0	0.487992	Y



Calibration

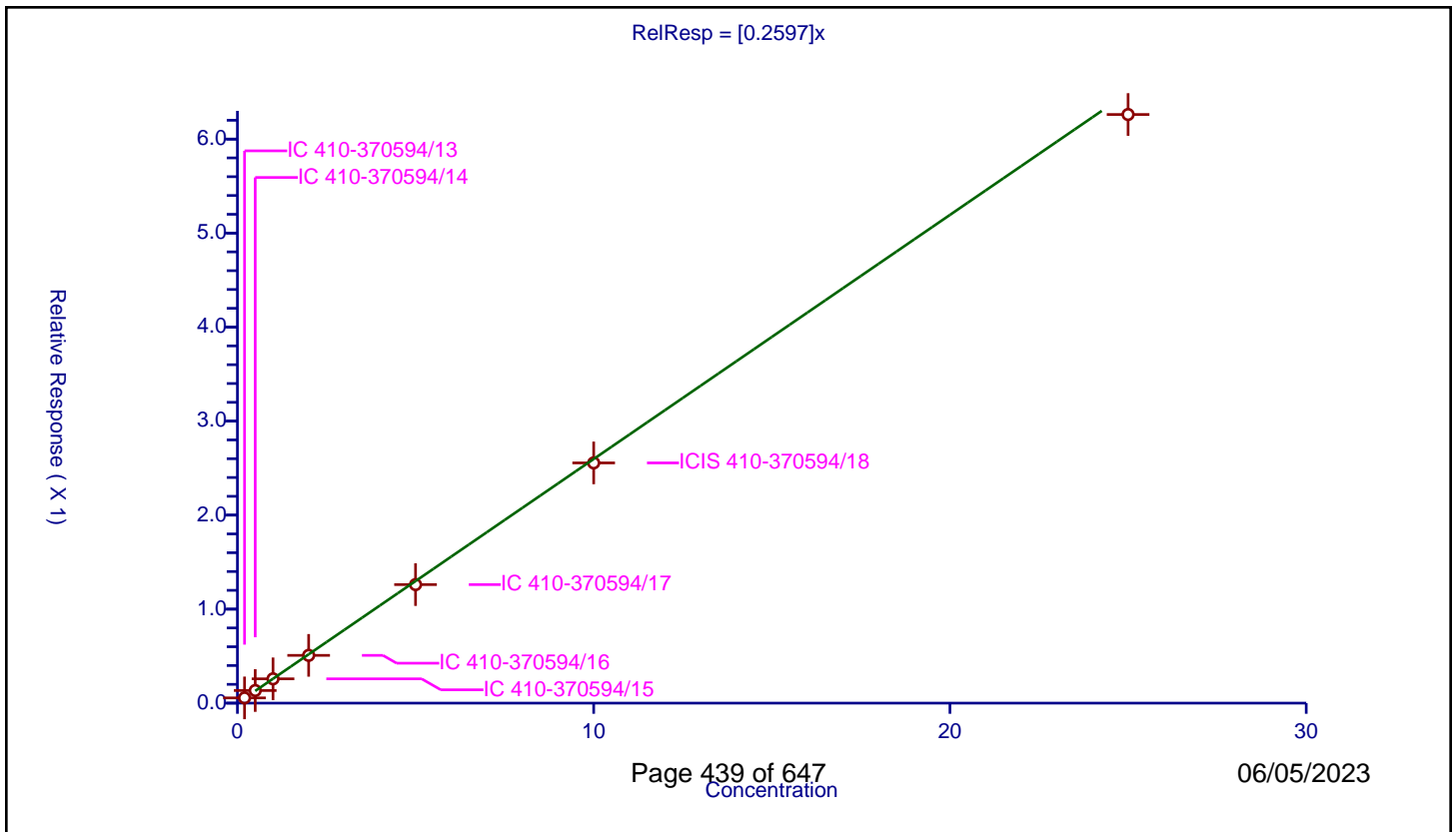
/ Ethyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2597

Error Coefficients	
Standard Error:	567000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.199998	0.055707	10.0	1960073.0	0.278538	Y
2	IC 410-370594/14	0.499996	0.134223	10.0	1943779.0	0.268448	Y
3	IC 410-370594/15	0.999992	0.258534	10.0	1958541.0	0.258536	Y
4	IC 410-370594/16	1.999985	0.508073	10.0	1967571.0	0.254039	Y
5	IC 410-370594/17	4.999962	1.260792	10.0	1980922.0	0.25216	Y
6	ICIS 410-370594/18	9.999924	2.555326	10.0	1979051.0	0.255535	Y
7	IC 410-370594/19	24.99981	6.261473	10.0	2018771.0	0.250461	Y



Calibration

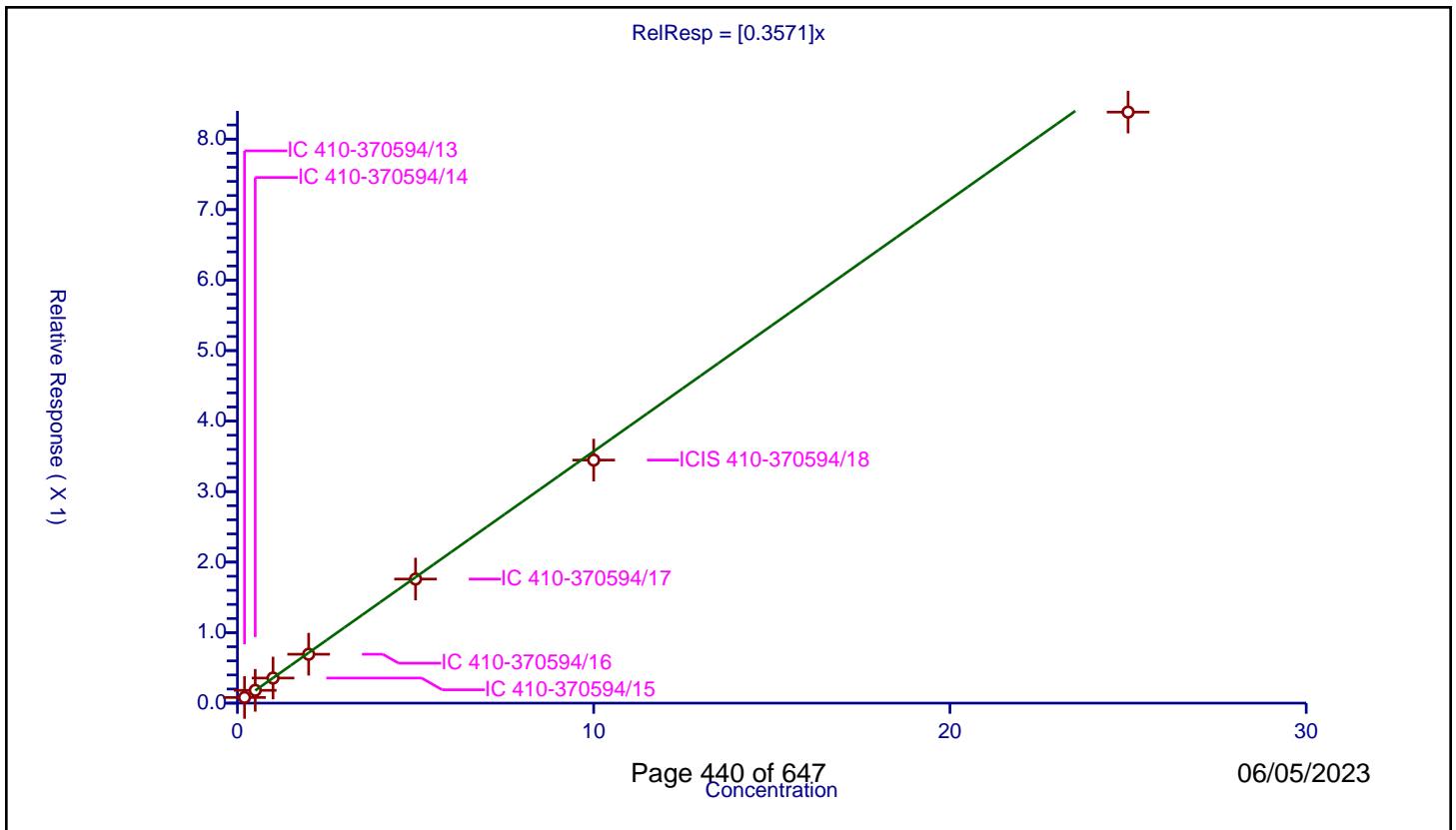
/ 1,2-Dichloro-1,1,2-trifluoroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3571

Error Coefficients	
Standard Error:	761000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.080446	10.0	1960073.0	0.40223	Y
2	IC 410-370594/14	0.5	0.181559	10.0	1943779.0	0.363117	Y
3	IC 410-370594/15	1.0	0.355923	10.0	1958541.0	0.355923	Y
4	IC 410-370594/16	2.0	0.693205	10.0	1967571.0	0.346602	Y
5	IC 410-370594/17	5.0	1.759923	10.0	1980922.0	0.351985	Y
6	ICIS 410-370594/18	10.0	3.447112	10.0	1979051.0	0.344711	Y
7	IC 410-370594/19	25.0	8.382778	10.0	2018771.0	0.335311	Y



Calibration

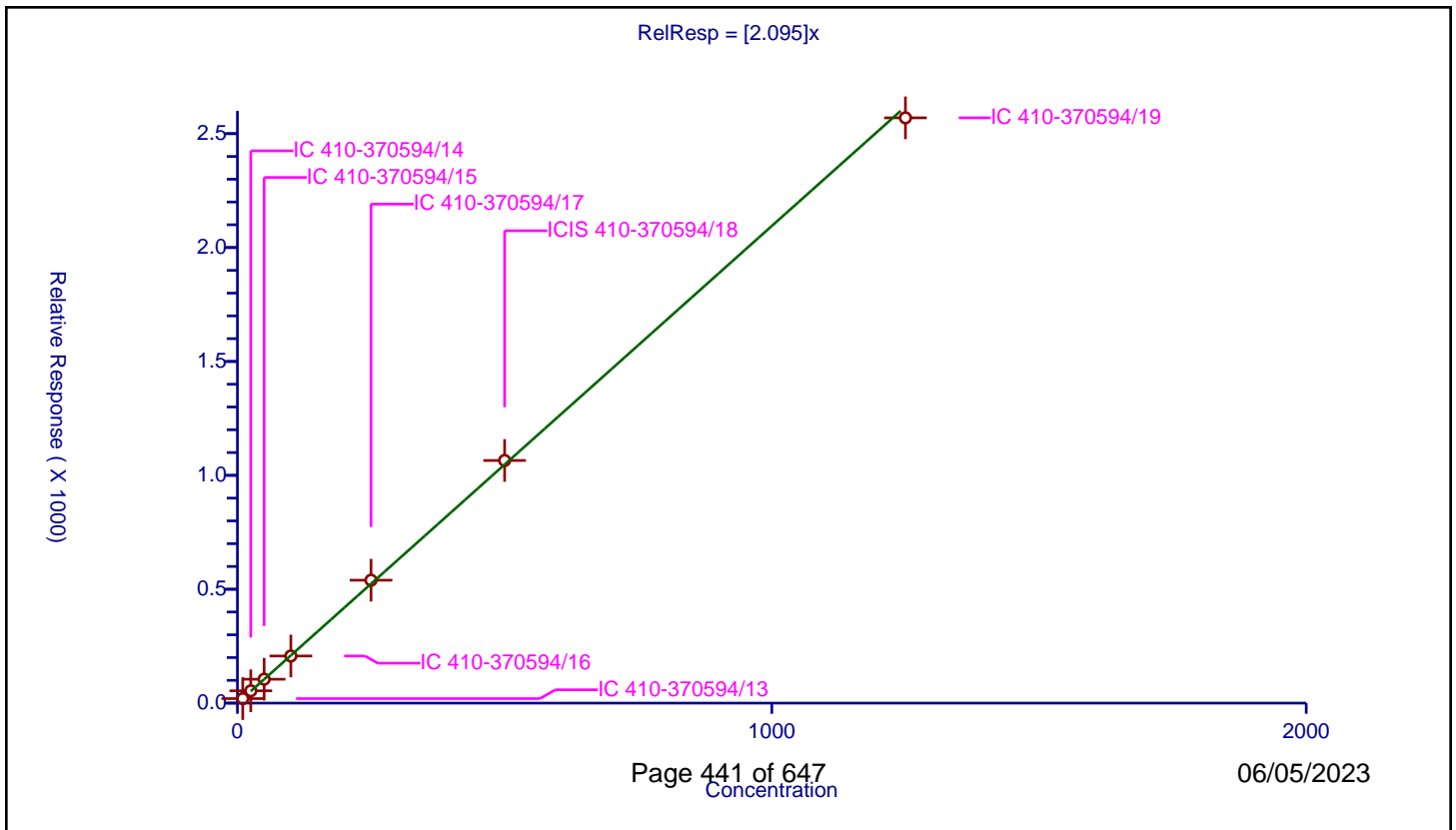
/ Acrolein

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.095

Error Coefficients	
Standard Error:	3800000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	10.000253	19.877132	50.0	157568.0	1.987663	Y
2	IC 410-370594/14	25.000632	54.094707	50.0	155237.0	2.163734	Y
3	IC 410-370594/15	50.001264	104.948867	50.0	157531.0	2.098924	Y
4	IC 410-370594/16	100.002528	206.938871	50.0	155263.0	2.069336	Y
5	IC 410-370594/17	250.006319	539.656441	50.0	154995.0	2.158571	Y
6	ICIS 410-370594/18	500.012639	1065.197745	50.0	158563.0	2.130342	Y
7	IC 410-370594/19	1250.031597	2569.504114	50.0	164937.0	2.055551	Y



Calibration

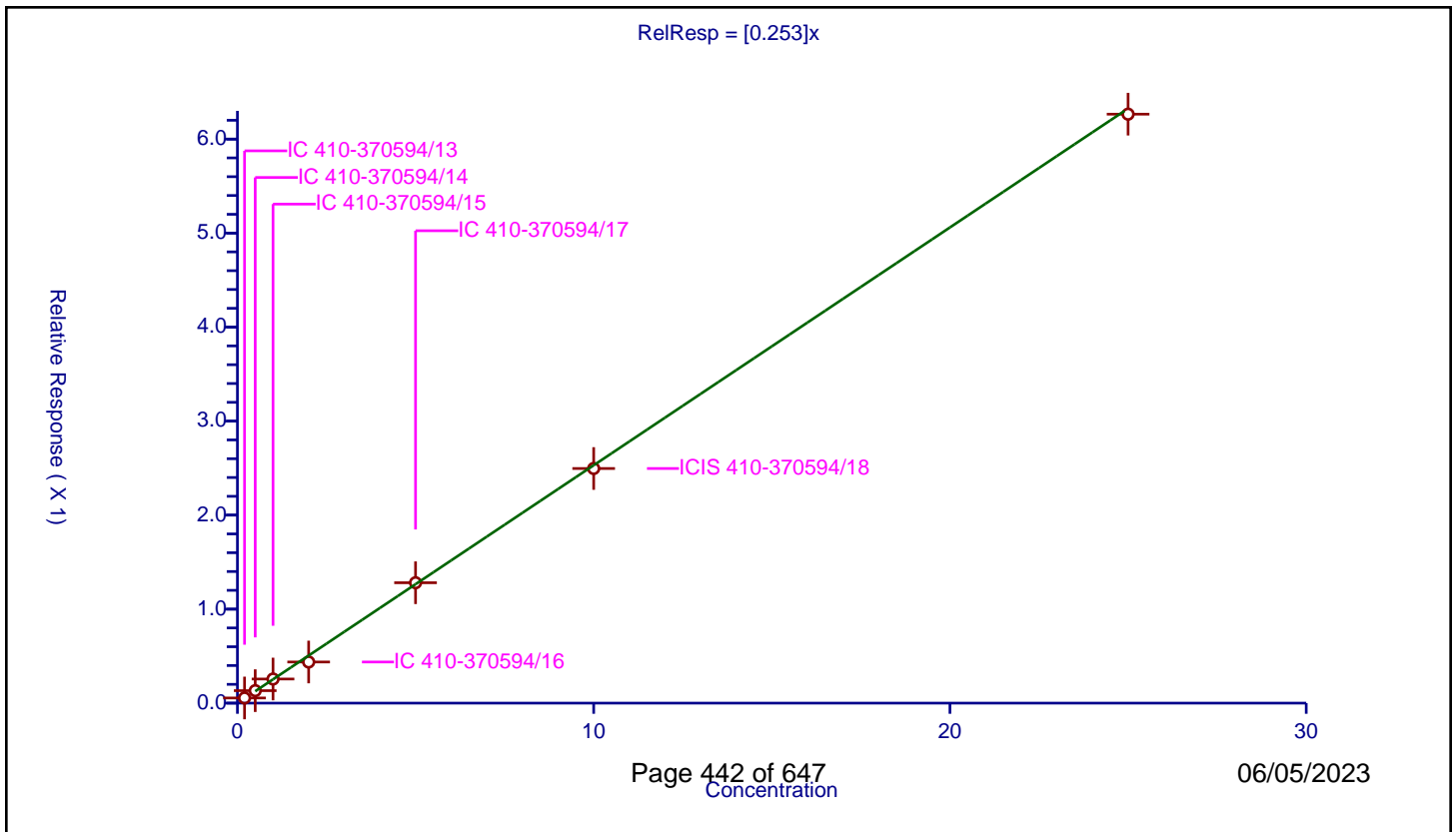
/ 1,1-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.253

Error Coefficients	
Standard Error:	566000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.054804	10.0	1960073.0	0.27402	Y
2	IC 410-370594/14	0.5	0.132716	10.0	1943779.0	0.265431	Y
3	IC 410-370594/15	1.0	0.256492	10.0	1958541.0	0.256492	Y
4	IC 410-370594/16	2.0	0.437519	10.0	1967571.0	0.21876	Y
5	IC 410-370594/17	5.0	1.280697	10.0	1980922.0	0.256139	Y
6	ICIS 410-370594/18	10.0	2.495863	10.0	1979051.0	0.249586	Y
7	IC 410-370594/19	25.0	6.265178	10.0	2018771.0	0.250607	Y



Calibration

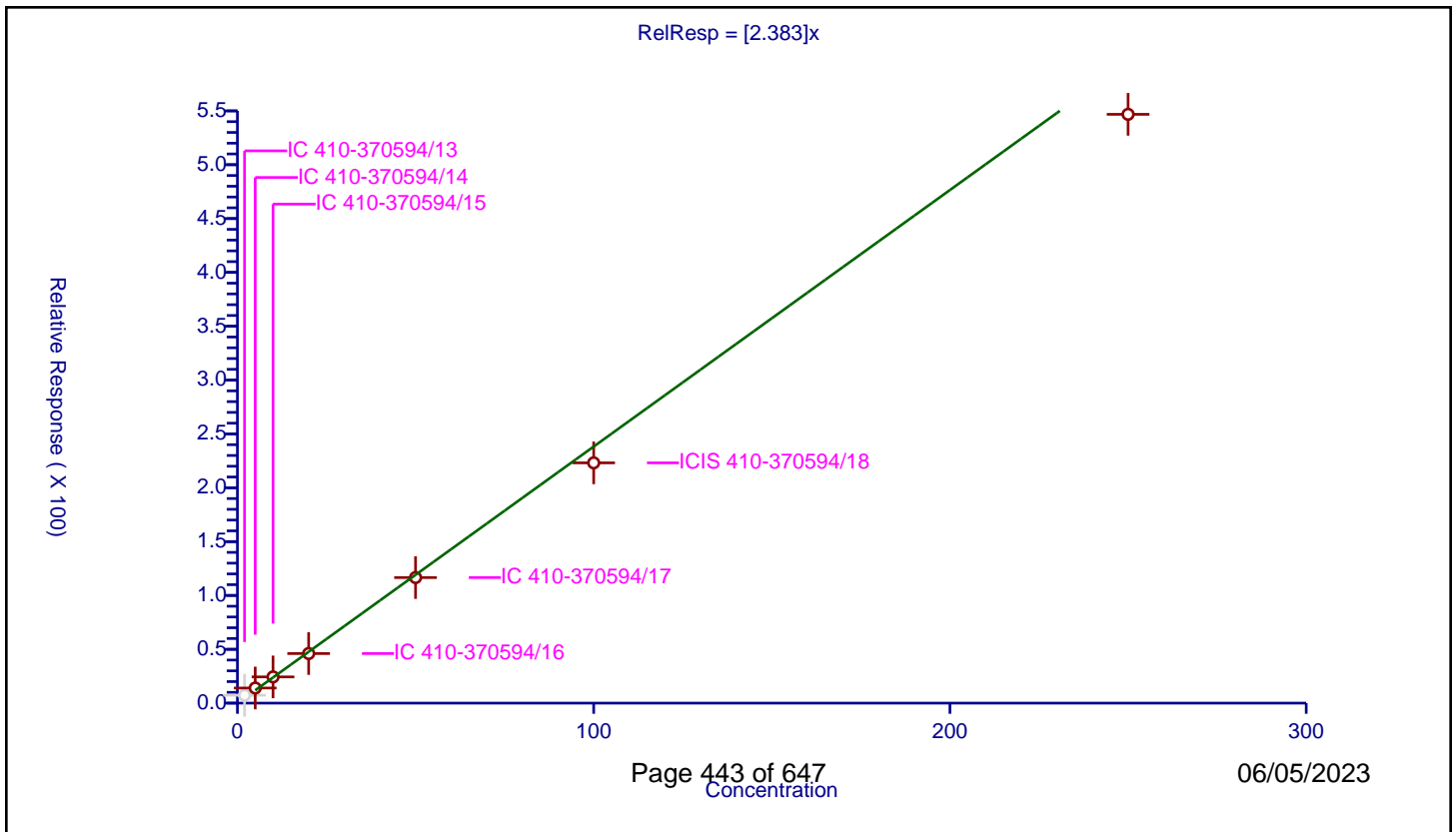
/ Acetone

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.383

Error Coefficients	
Standard Error:	884000
Relative Standard Error:	9.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	2.0	7.330803	50.0	157568.0	3.665402	N
2	IC 410-370594/14	5.0	14.031127	50.0	155237.0	2.806225	Y
3	IC 410-370594/15	10.0	24.358063	50.0	157531.0	2.435806	Y
4	IC 410-370594/16	20.0	46.053149	50.0	155263.0	2.302657	Y
5	IC 410-370594/17	50.0	116.60731	50.0	154995.0	2.332146	Y
6	ICIS 410-370594/18	100.0	223.13686	50.0	158563.0	2.231369	Y
7	IC 410-370594/19	250.0	546.810297	50.0	164937.0	2.187241	Y



Calibration

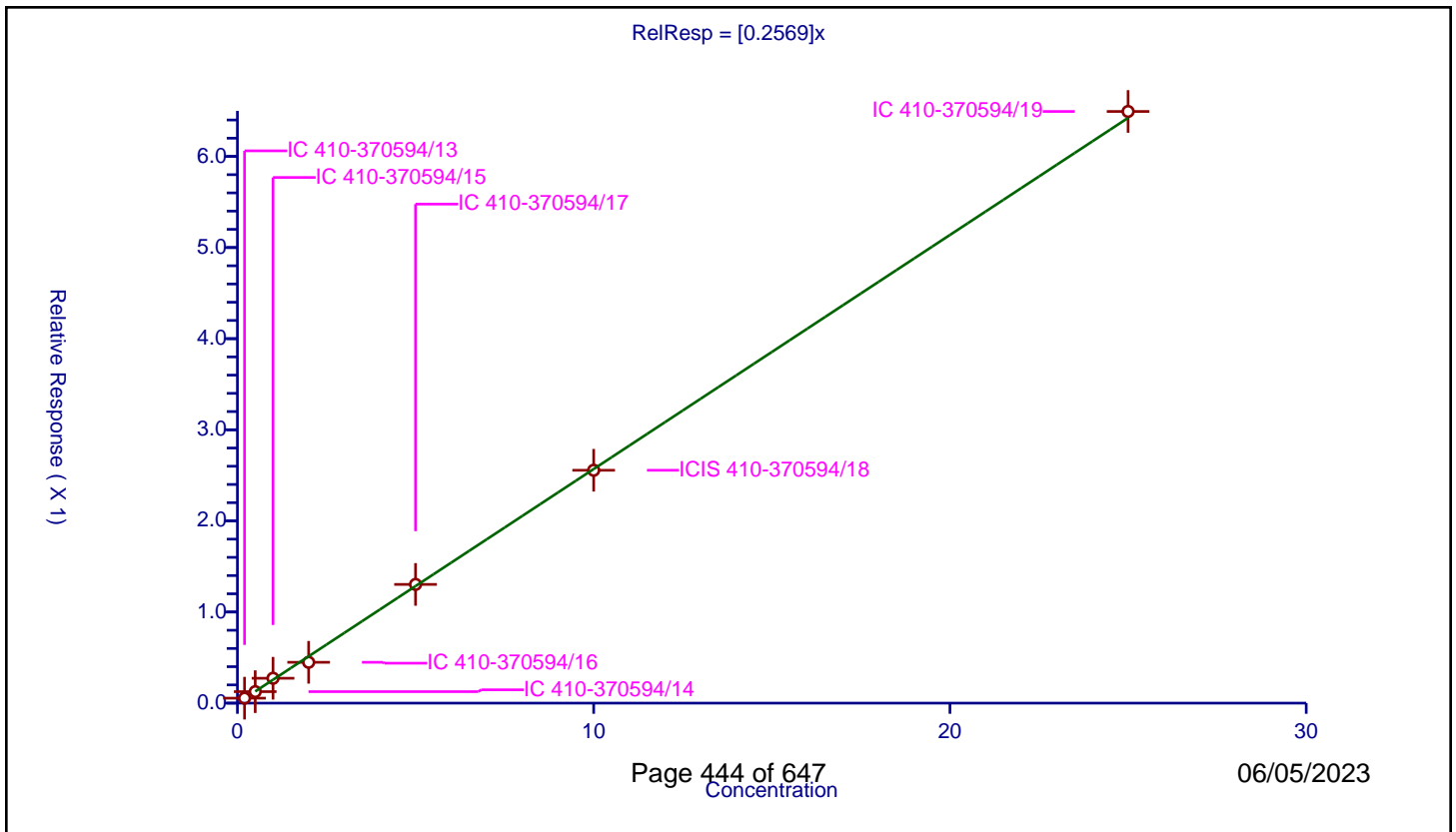
/ 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2569

Error Coefficients	
Standard Error:	585000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.054574	10.0	1960073.0	0.272872	Y
2	IC 410-370594/14	0.5	0.126254	10.0	1943779.0	0.252508	Y
3	IC 410-370594/15	1.0	0.273045	10.0	1958541.0	0.273045	Y
4	IC 410-370594/16	2.0	0.448213	10.0	1967571.0	0.224106	Y
5	IC 410-370594/17	5.0	1.302949	10.0	1980922.0	0.26059	Y
6	ICIS 410-370594/18	10.0	2.555796	10.0	1979051.0	0.25558	Y
7	IC 410-370594/19	25.0	6.493451	10.0	2018771.0	0.259738	Y



Calibration

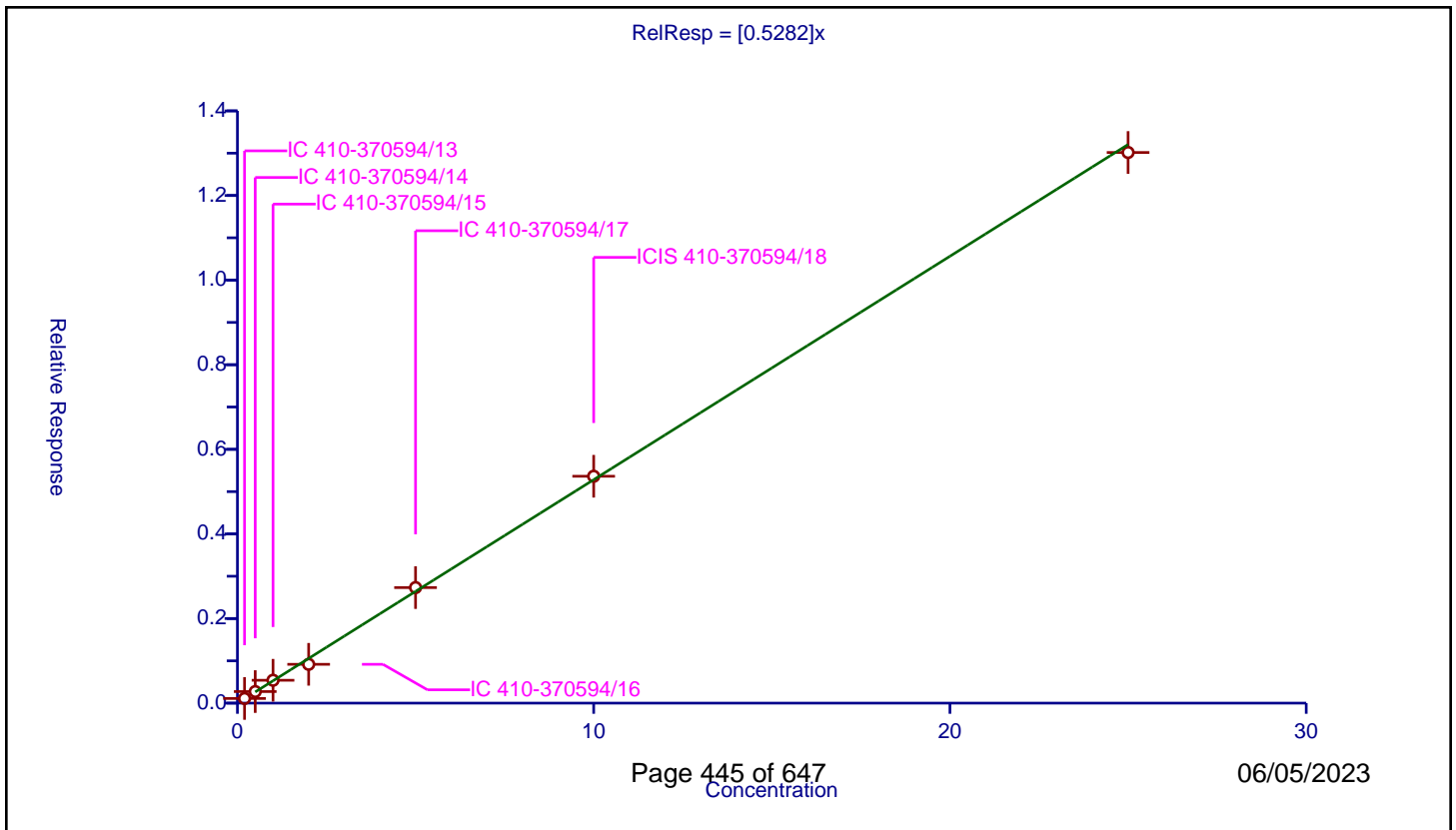
/ Iodomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5282

Error Coefficients	
Standard Error:	1180000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.109588	10.0	1960073.0	0.547939	Y
2	IC 410-370594/14	0.5	0.273287	10.0	1943779.0	0.546574	Y
3	IC 410-370594/15	1.0	0.540775	10.0	1958541.0	0.540775	Y
4	IC 410-370594/16	2.0	0.917395	10.0	1967571.0	0.458698	Y
5	IC 410-370594/17	5.0	2.731809	10.0	1980922.0	0.546362	Y
6	ICIS 410-370594/18	10.0	5.362959	10.0	1979051.0	0.536296	Y
7	IC 410-370594/19	25.0	13.016855	10.0	2018771.0	0.520674	Y



Calibration

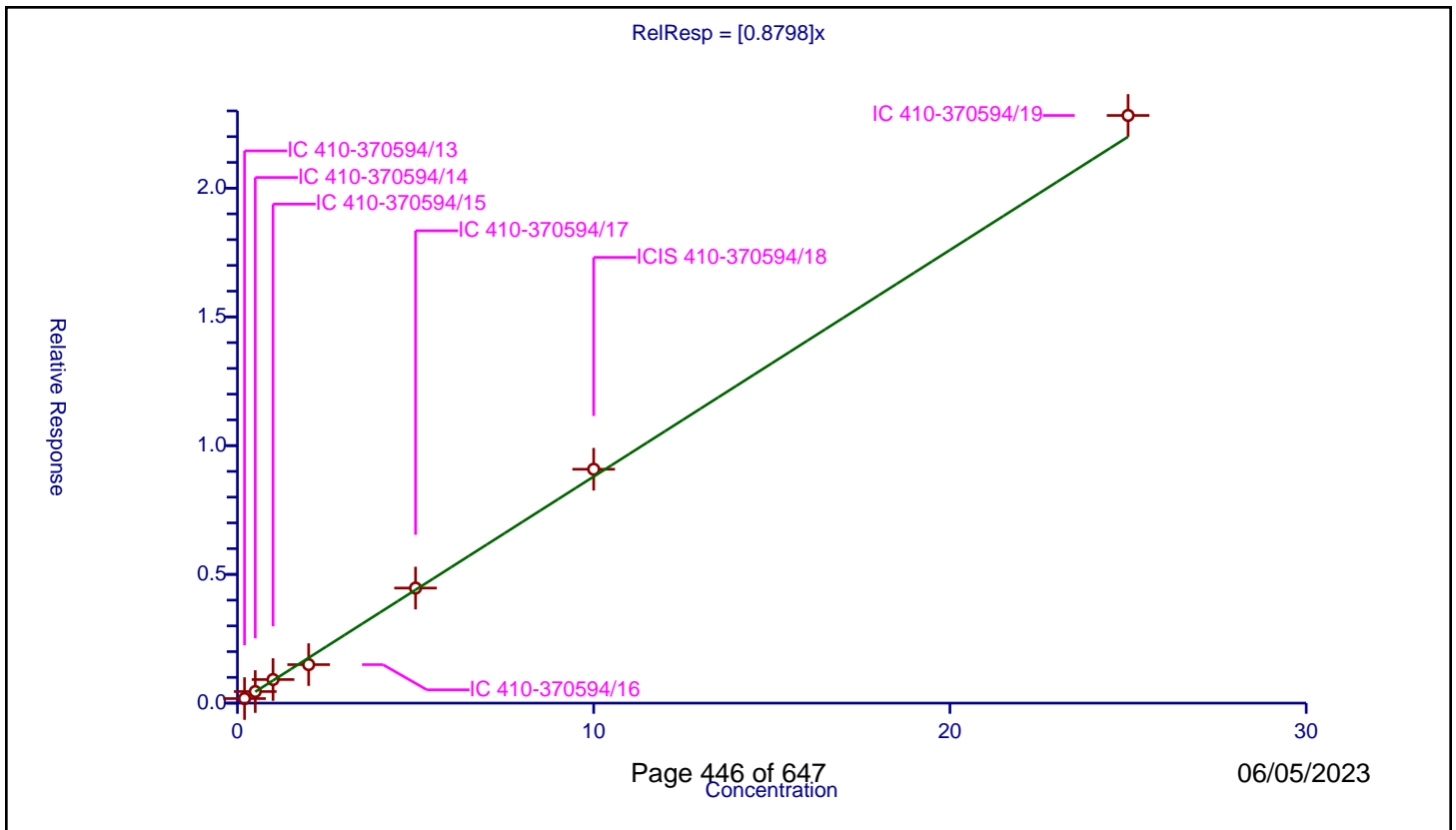
/ Carbon disulfide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8798

Error Coefficients	
Standard Error:	2060000
Relative Standard Error:	6.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.176172	10.0	1960073.0	0.88086	Y
2	IC 410-370594/14	0.5	0.449928	10.0	1943779.0	0.899855	Y
3	IC 410-370594/15	1.0	0.915457	10.0	1958541.0	0.915457	Y
4	IC 410-370594/16	2.0	1.495519	10.0	1967571.0	0.74776	Y
5	IC 410-370594/17	5.0	4.468344	10.0	1980922.0	0.893669	Y
6	ICIS 410-370594/18	10.0	9.083167	10.0	1979051.0	0.908317	Y
7	IC 410-370594/19	25.0	22.822678	10.0	2018771.0	0.912907	Y



Calibration

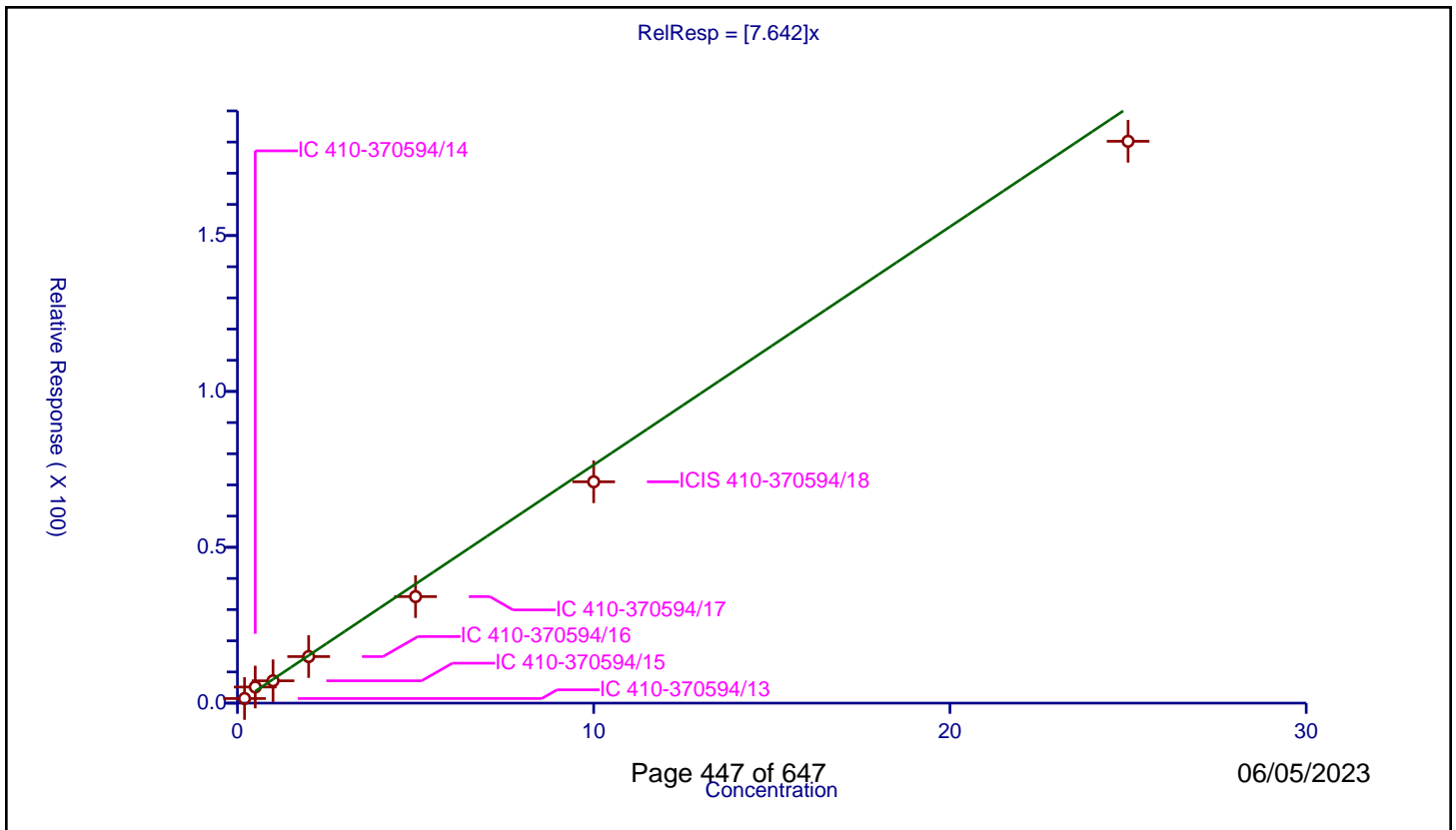
/ Methyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	7.642

Error Coefficients	
Standard Error:	264000
Relative Standard Error:	15.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.965

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	1.476188	50.0	157568.0	7.38094	Y
2	IC 410-370594/14	0.5	5.167582	50.0	155237.0	10.335165	Y
3	IC 410-370594/15	1.0	7.163035	50.0	157531.0	7.163035	Y
4	IC 410-370594/16	2.0	14.934337	50.0	155263.0	7.467169	Y
5	IC 410-370594/17	5.0	34.171425	50.0	154995.0	6.834285	Y
6	ICIS 410-370594/18	10.0	71.007738	50.0	158563.0	7.100774	Y
7	IC 410-370594/19	25.0	180.253976	50.0	164937.0	7.210159	Y



Calibration

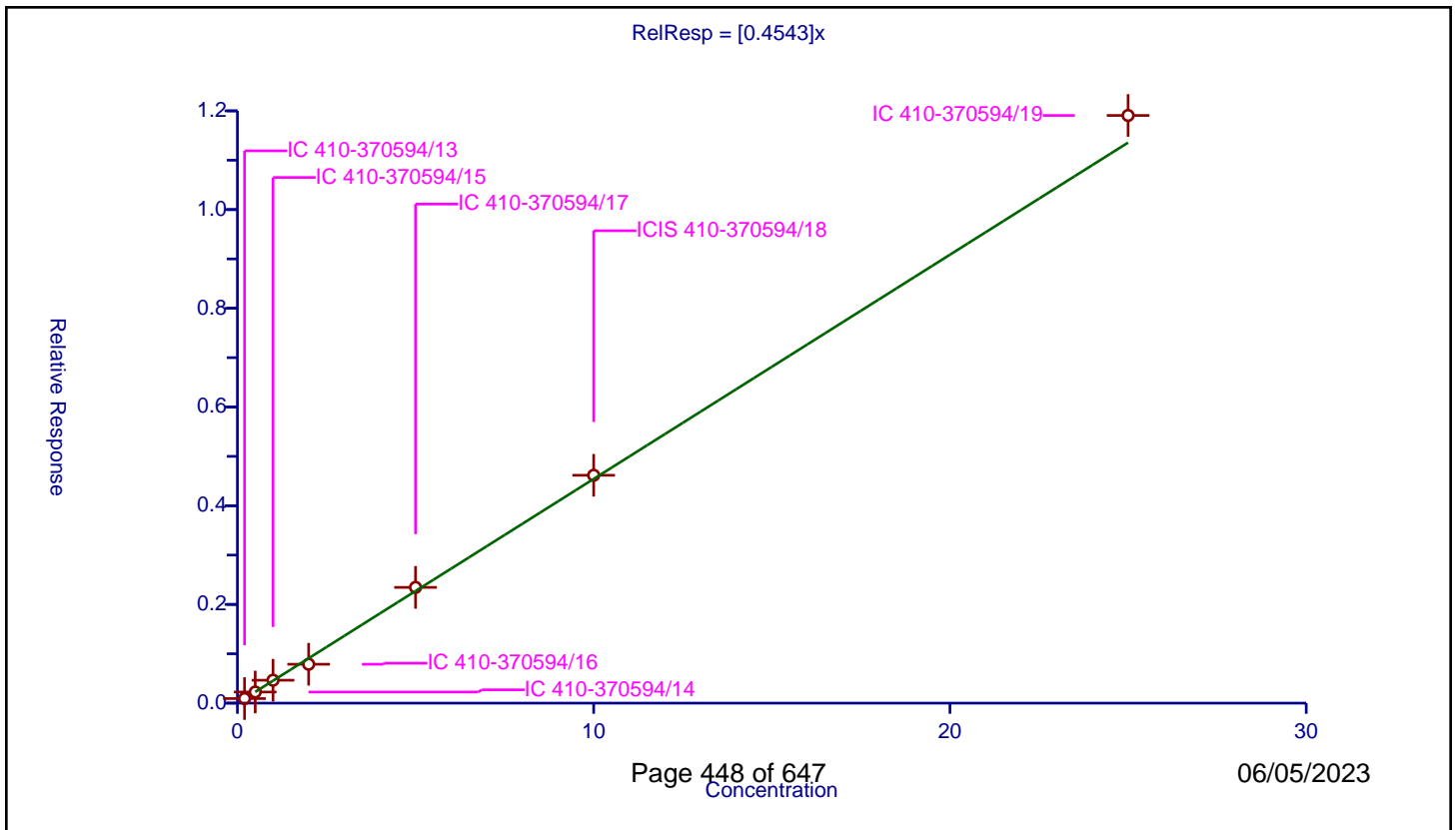
/ 3-Chloro-1-propene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4543

Error Coefficients	
Standard Error:	1070000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.092701	10.0	1960073.0	0.463503	Y
2	IC 410-370594/14	0.5	0.225514	10.0	1943779.0	0.451029	Y
3	IC 410-370594/15	1.0	0.464438	10.0	1958541.0	0.464438	Y
4	IC 410-370594/16	2.0	0.788261	10.0	1967571.0	0.394131	Y
5	IC 410-370594/17	5.0	2.345085	10.0	1980922.0	0.469017	Y
6	ICIS 410-370594/18	10.0	4.616814	10.0	1979051.0	0.461681	Y
7	IC 410-370594/19	25.0	11.907022	10.0	2018771.0	0.476281	Y



Calibration

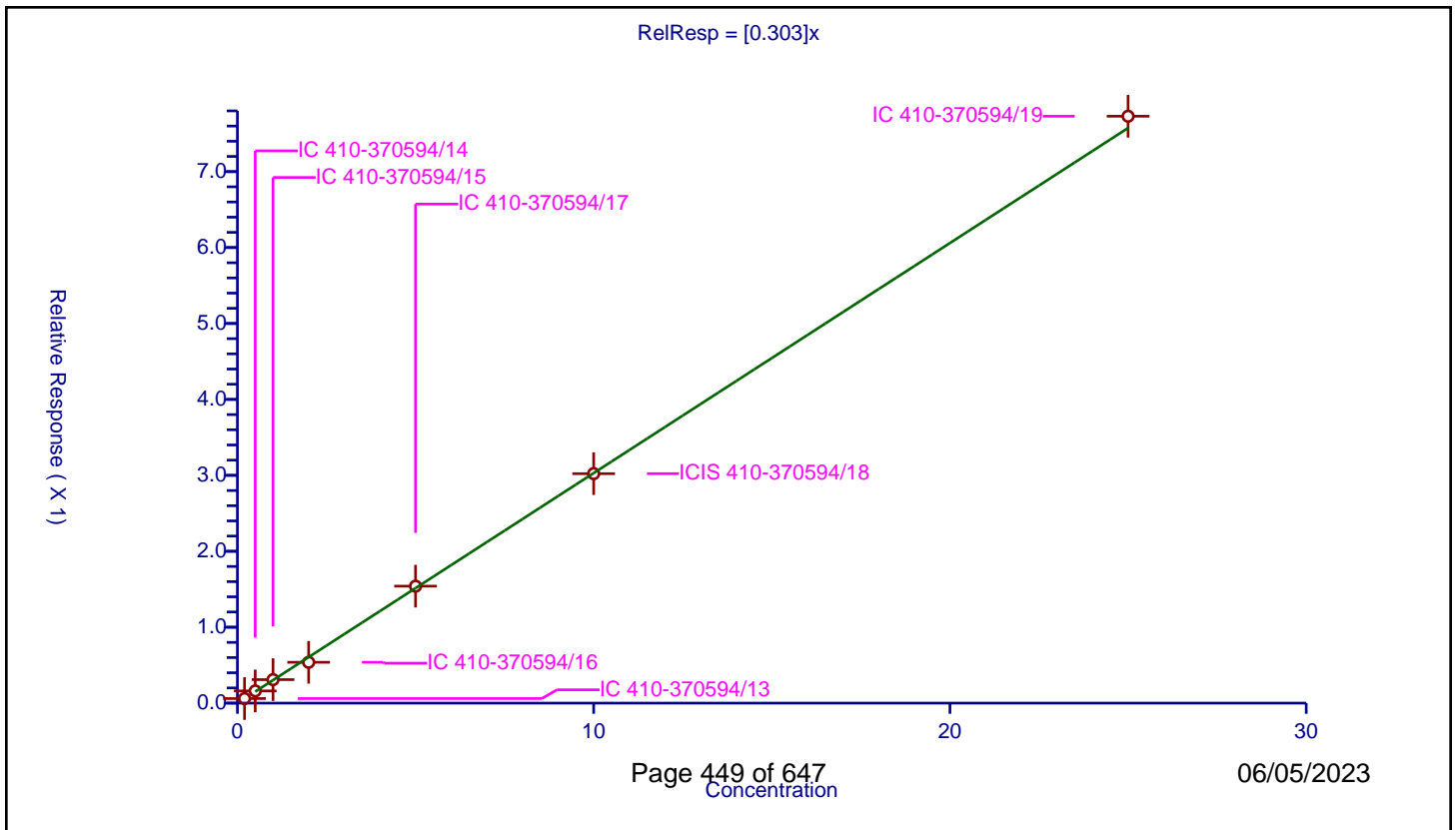
/ Methylene Chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.303

Error Coefficients	
Standard Error:	695000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.060258	10.0	1960073.0	0.30129	Y
2	IC 410-370594/14	0.5	0.160677	10.0	1943779.0	0.321353	Y
3	IC 410-370594/15	1.0	0.30968	10.0	1958541.0	0.30968	Y
4	IC 410-370594/16	2.0	0.538044	10.0	1967571.0	0.269022	Y
5	IC 410-370594/17	5.0	1.540364	10.0	1980922.0	0.308073	Y
6	ICIS 410-370594/18	10.0	3.022252	10.0	1979051.0	0.302225	Y
7	IC 410-370594/19	25.0	7.729356	10.0	2018771.0	0.309174	Y



Calibration

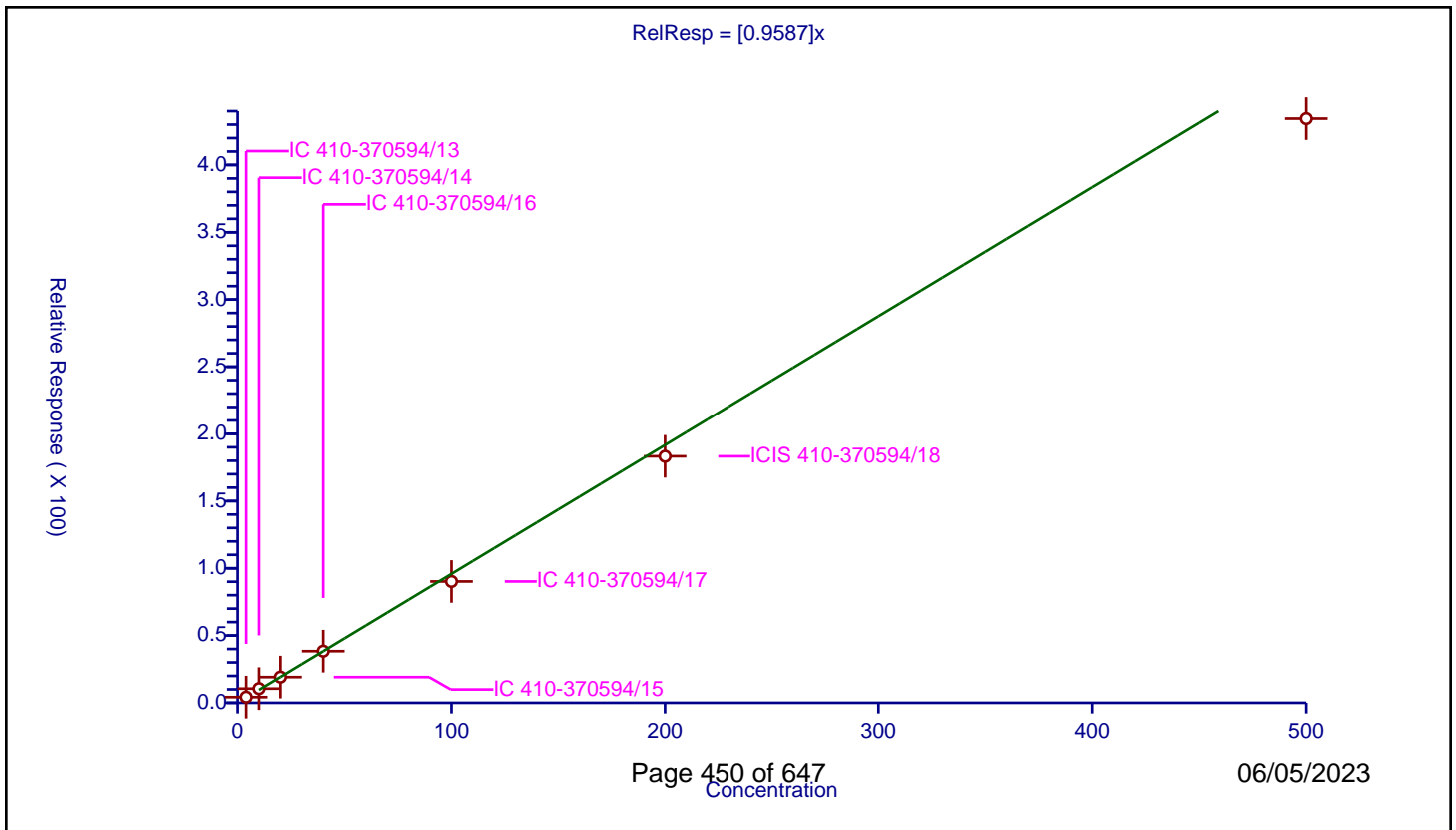
/ 2-Methyl-2-propanol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9587

Error Coefficients	
Standard Error:	644000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	4.0	4.21691	50.0	157568.0	1.054227	Y
2	IC 410-370594/14	10.0	10.53486	50.0	155237.0	1.053486	Y
3	IC 410-370594/15	20.0	19.113698	50.0	157531.0	0.955685	Y
4	IC 410-370594/16	40.0	38.38487	50.0	155263.0	0.959622	Y
5	IC 410-370594/17	100.0	90.208071	50.0	154995.0	0.902081	Y
6	ICIS 410-370594/18	200.0	183.315149	50.0	158563.0	0.916576	Y
7	IC 410-370594/19	500.0	434.451033	50.0	164937.0	0.868902	Y



Calibration

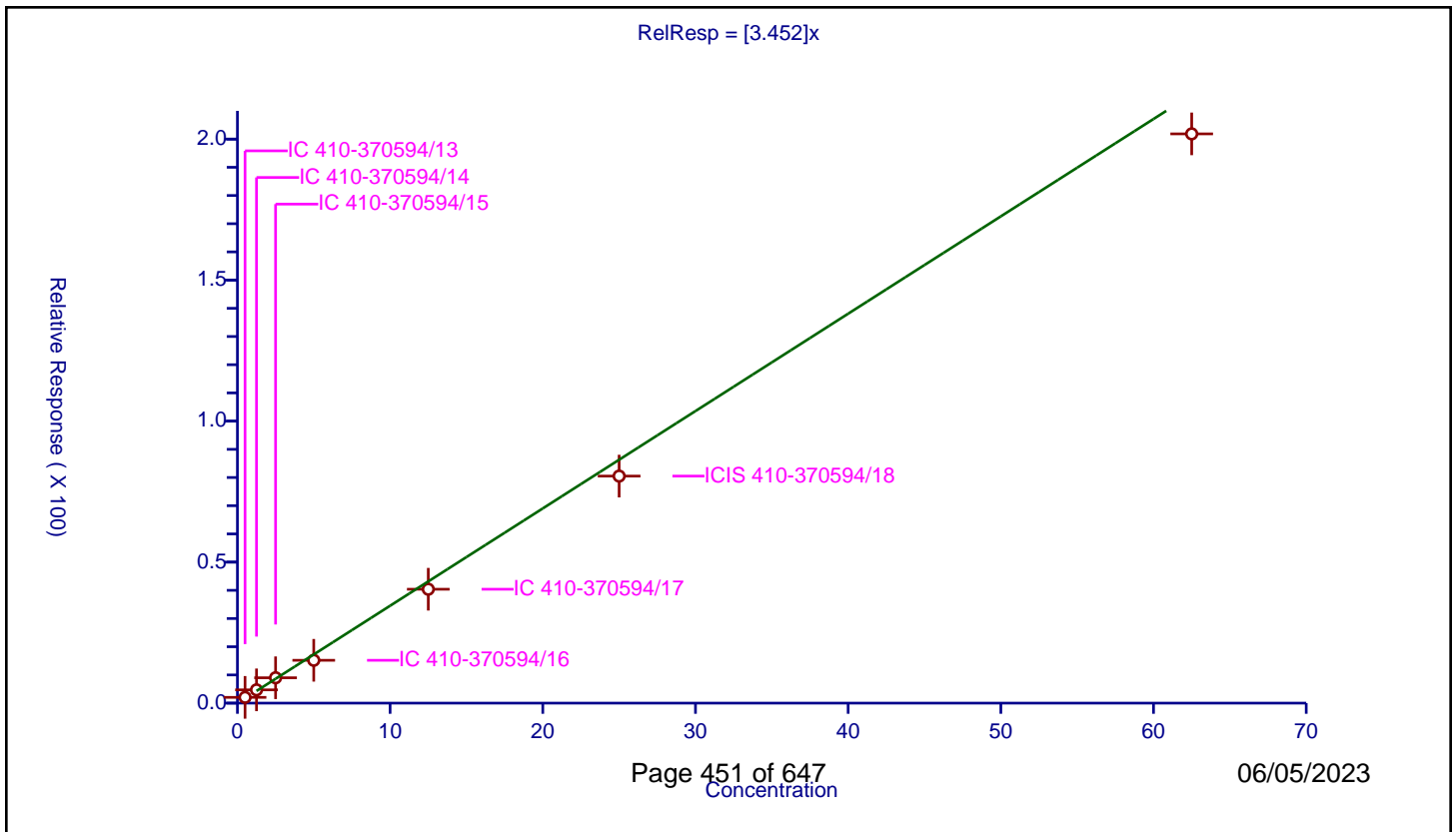
/ Acrylonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.452

Error Coefficients	
Standard Error:	296000
Relative Standard Error:	10.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.5	2.040389	50.0	157568.0	4.080778	Y
2	IC 410-370594/14	1.25	4.706674	50.0	155237.0	3.765339	Y
3	IC 410-370594/15	2.5	8.997277	50.0	157531.0	3.598911	Y
4	IC 410-370594/16	5.0	15.192609	50.0	155263.0	3.038522	Y
5	IC 410-370594/17	12.5	40.390658	50.0	154995.0	3.231253	Y
6	ICIS 410-370594/18	25.0	80.50554	50.0	158563.0	3.220222	Y
7	IC 410-370594/19	62.5	201.845856	50.0	164937.0	3.229534	Y



Calibration

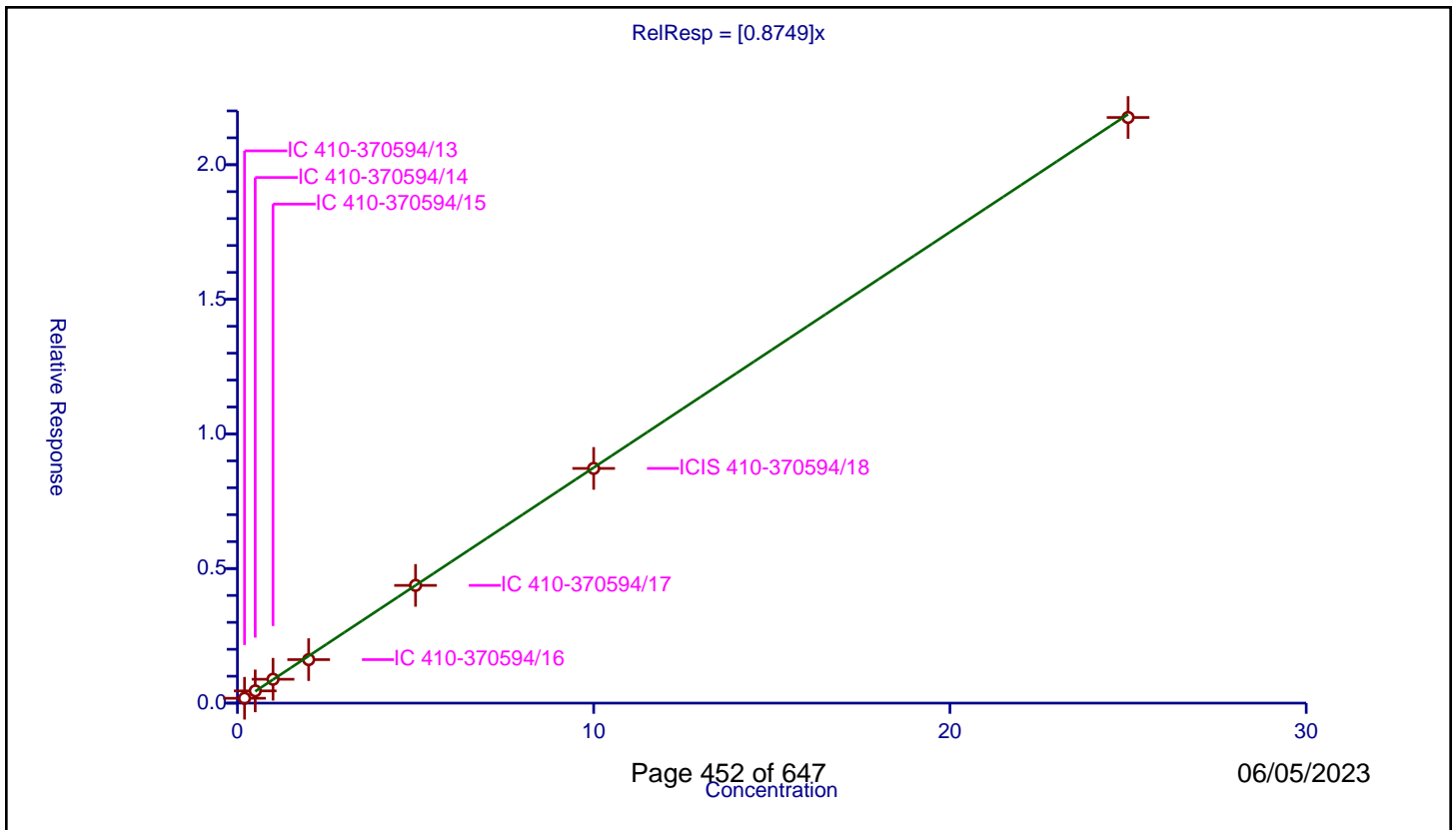
/ Methyl tert-butyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8749

Error Coefficients	
Standard Error:	1960000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.18057	10.0	1960073.0	0.902849	Y
2	IC 410-370594/14	0.5	0.454836	10.0	1943779.0	0.909671	Y
3	IC 410-370594/15	1.0	0.887155	10.0	1958541.0	0.887155	Y
4	IC 410-370594/16	2.0	1.616414	10.0	1967571.0	0.808207	Y
5	IC 410-370594/17	5.0	4.373004	10.0	1980922.0	0.874601	Y
6	ICIS 410-370594/18	10.0	8.718527	10.0	1979051.0	0.871853	Y
7	IC 410-370594/19	25.0	21.755964	10.0	2018771.0	0.870239	Y



Calibration

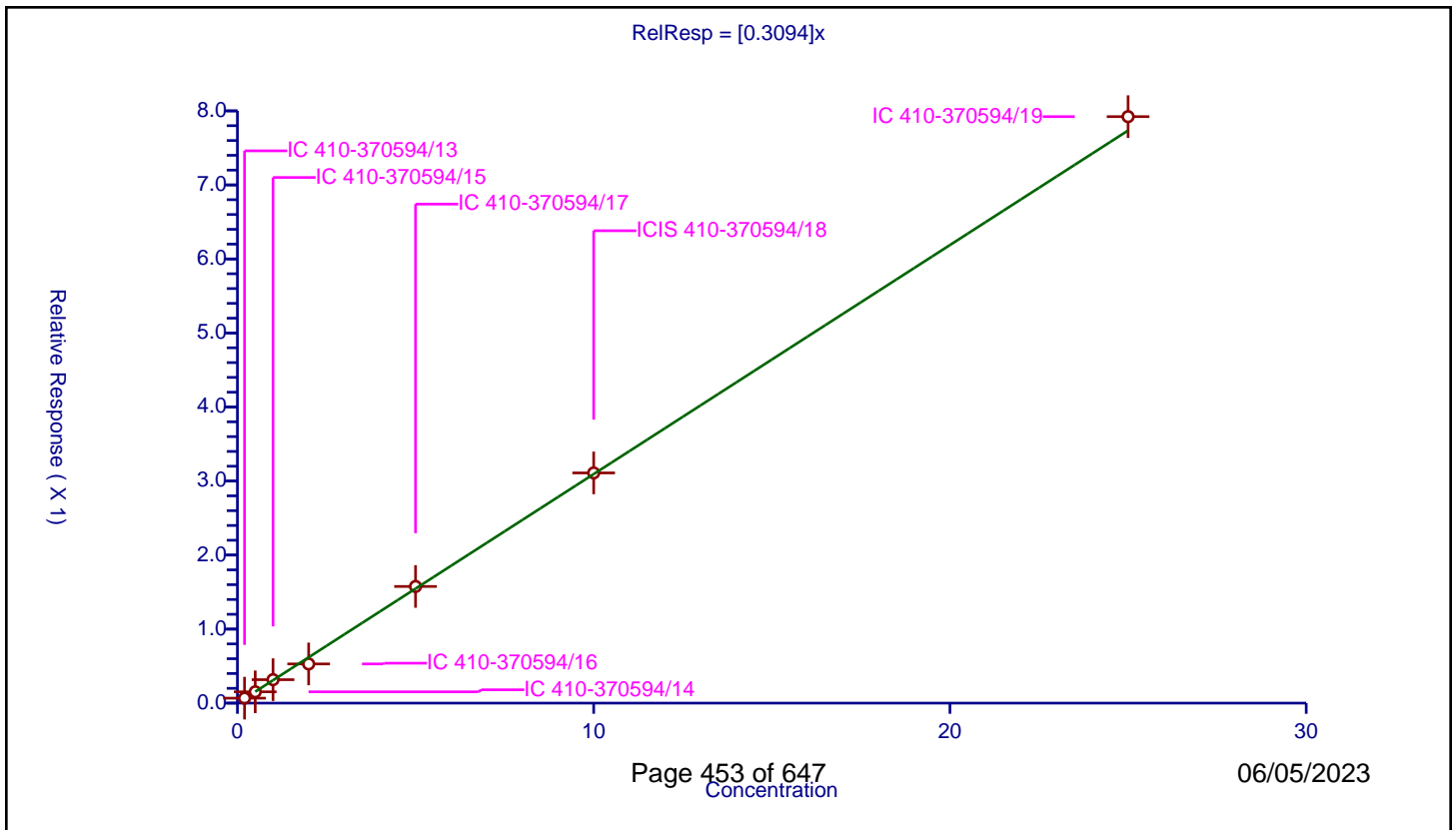
/ trans-1,2-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3094

Error Coefficients	
Standard Error:	713000
Relative Standard Error:	7.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.067156	10.0	1960073.0	0.335778	Y
2	IC 410-370594/14	0.5	0.152656	10.0	1943779.0	0.305312	Y
3	IC 410-370594/15	1.0	0.316894	10.0	1958541.0	0.316894	Y
4	IC 410-370594/16	2.0	0.529435	10.0	1967571.0	0.264717	Y
5	IC 410-370594/17	5.0	1.575877	10.0	1980922.0	0.315175	Y
6	ICIS 410-370594/18	10.0	3.109521	10.0	1979051.0	0.310952	Y
7	IC 410-370594/19	25.0	7.922459	10.0	2018771.0	0.316898	Y



Calibration

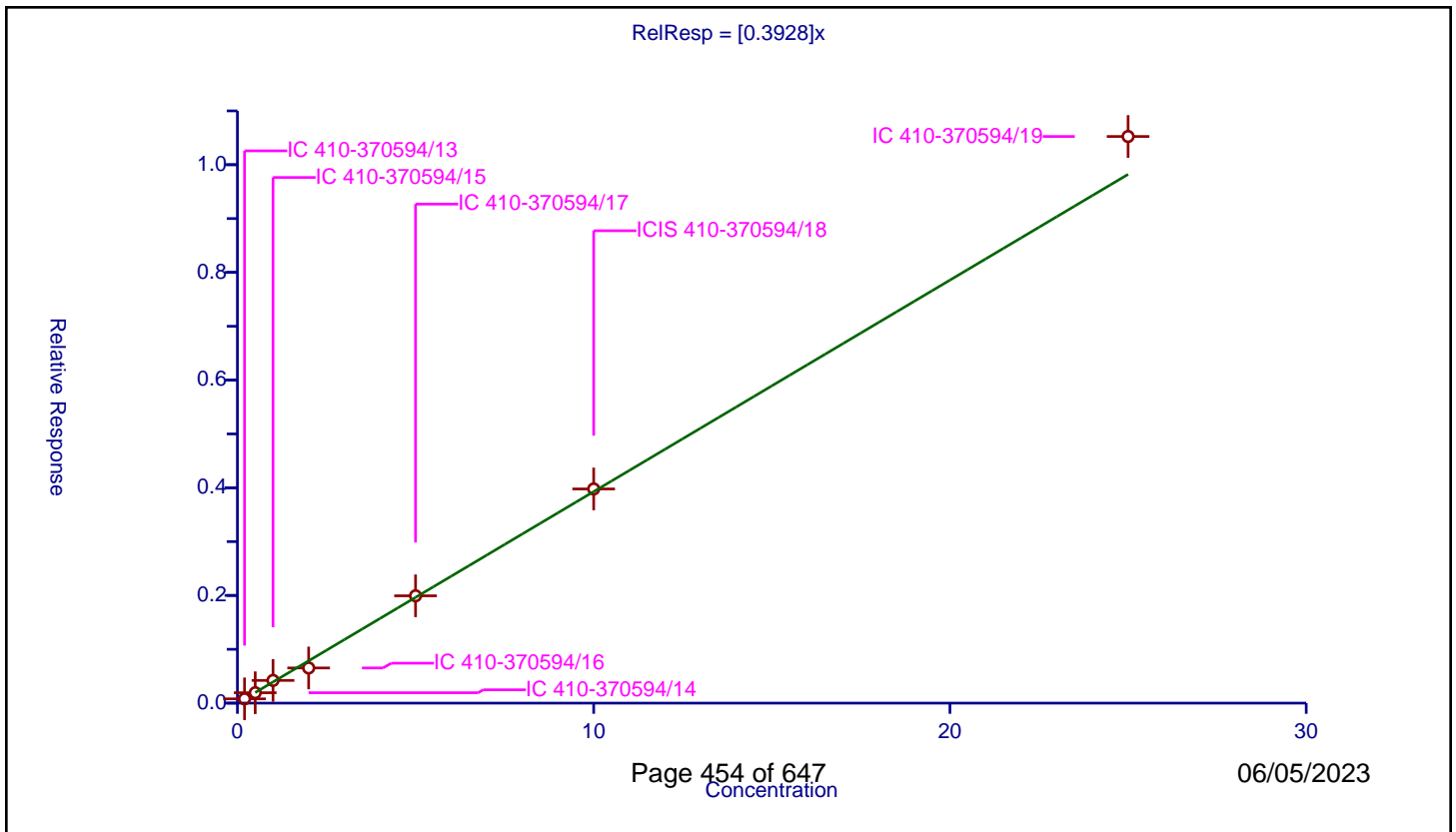
/ Hexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3928

Error Coefficients	
Standard Error:	941000
Relative Standard Error:	8.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.079456	10.0	1960073.0	0.397281	Y
2	IC 410-370594/14	0.5	0.193407	10.0	1943779.0	0.386814	Y
3	IC 410-370594/15	1.0	0.421656	10.0	1958541.0	0.421656	Y
4	IC 410-370594/16	2.0	0.653405	10.0	1967571.0	0.326702	Y
5	IC 410-370594/17	5.0	1.993299	10.0	1980922.0	0.39866	Y
6	ICIS 410-370594/18	10.0	3.978028	10.0	1979051.0	0.397803	Y
7	IC 410-370594/19	25.0	10.524834	10.0	2018771.0	0.420993	Y



Calibration

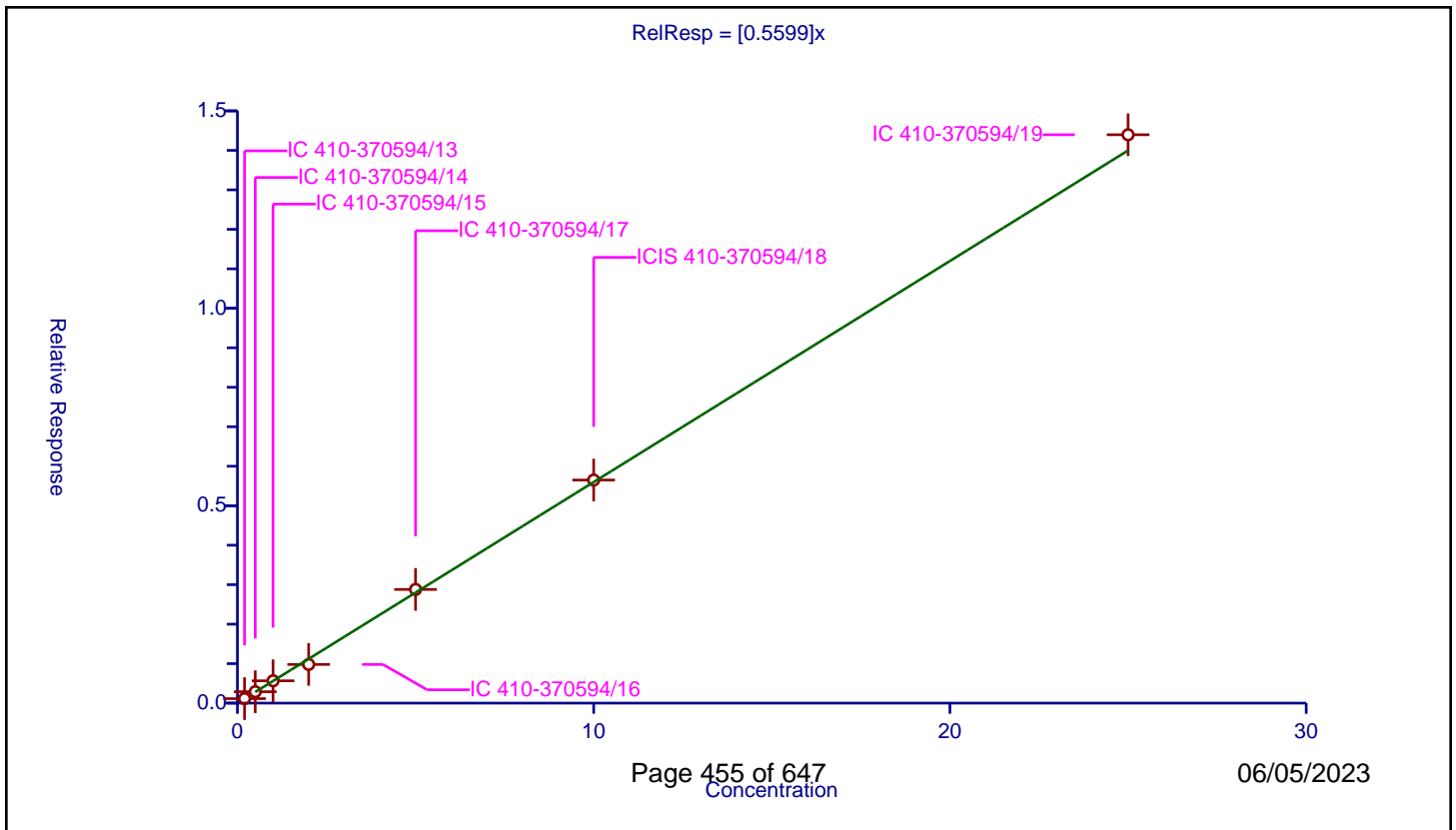
/ 1,1-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5599

Error Coefficients	
Standard Error:	1300000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.113986	10.0	1960073.0	0.569928	Y
2	IC 410-370594/14	0.5	0.288834	10.0	1943779.0	0.577669	Y
3	IC 410-370594/15	1.0	0.564844	10.0	1958541.0	0.564844	Y
4	IC 410-370594/16	2.0	0.980051	10.0	1967571.0	0.490026	Y
5	IC 410-370594/17	5.0	2.879598	10.0	1980922.0	0.57592	Y
6	ICIS 410-370594/18	10.0	5.650304	10.0	1979051.0	0.56503	Y
7	IC 410-370594/19	25.0	14.395699	10.0	2018771.0	0.575828	Y



Calibration

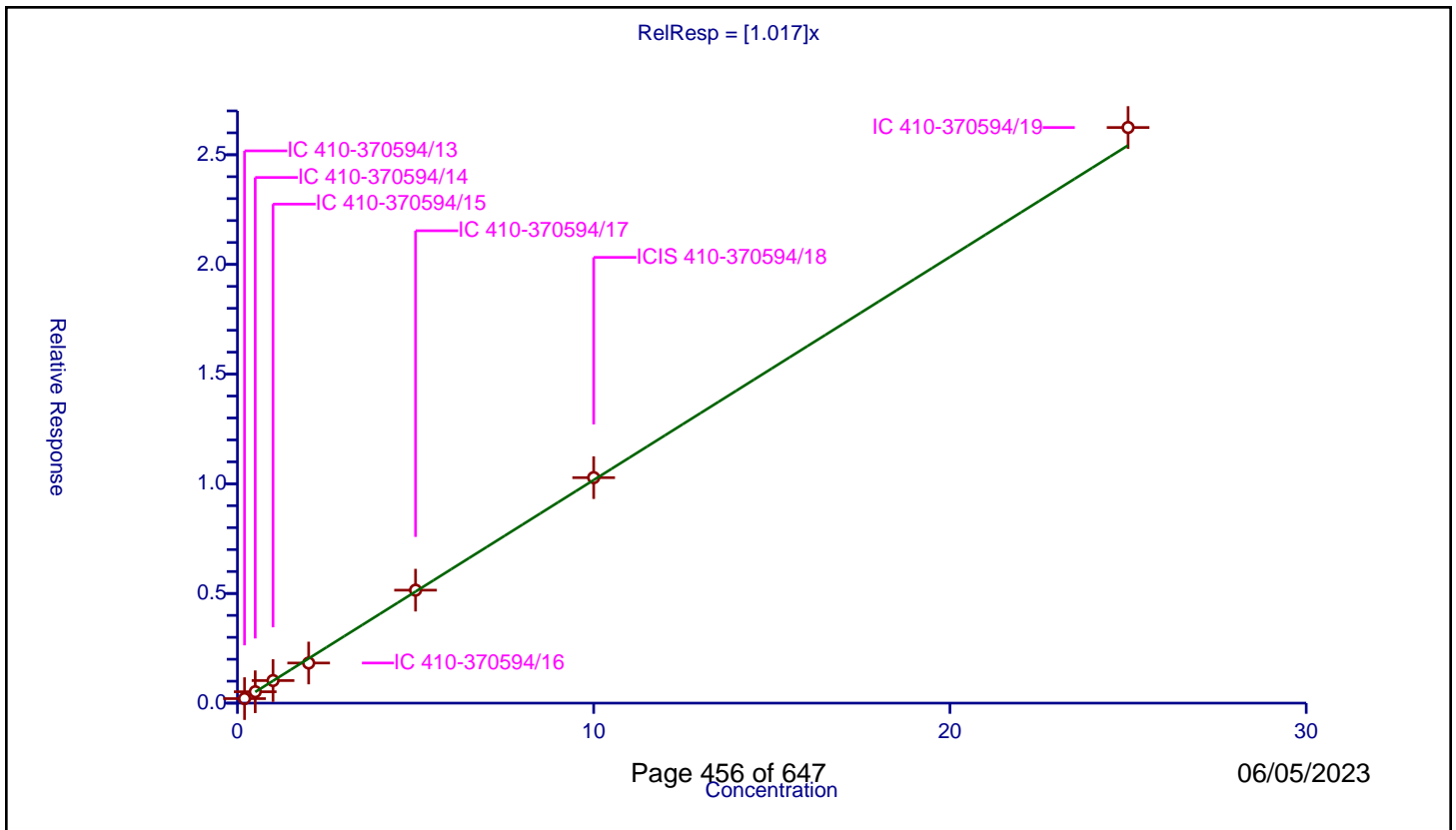
/ Isopropyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.017

Error Coefficients	
Standard Error:	2360000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.206013	10.0	1960073.0	1.030064	Y
2	IC 410-370594/14	0.5	0.519298	10.0	1943779.0	1.038595	Y
3	IC 410-370594/15	1.0	1.029343	10.0	1958541.0	1.029343	Y
4	IC 410-370594/16	2.0	1.828793	10.0	1967571.0	0.914396	Y
5	IC 410-370594/17	5.0	5.149683	10.0	1980922.0	1.029937	Y
6	ICIS 410-370594/18	10.0	10.280038	10.0	1979051.0	1.028004	Y
7	IC 410-370594/19	25.0	26.242105	10.0	2018771.0	1.049684	Y



Calibration

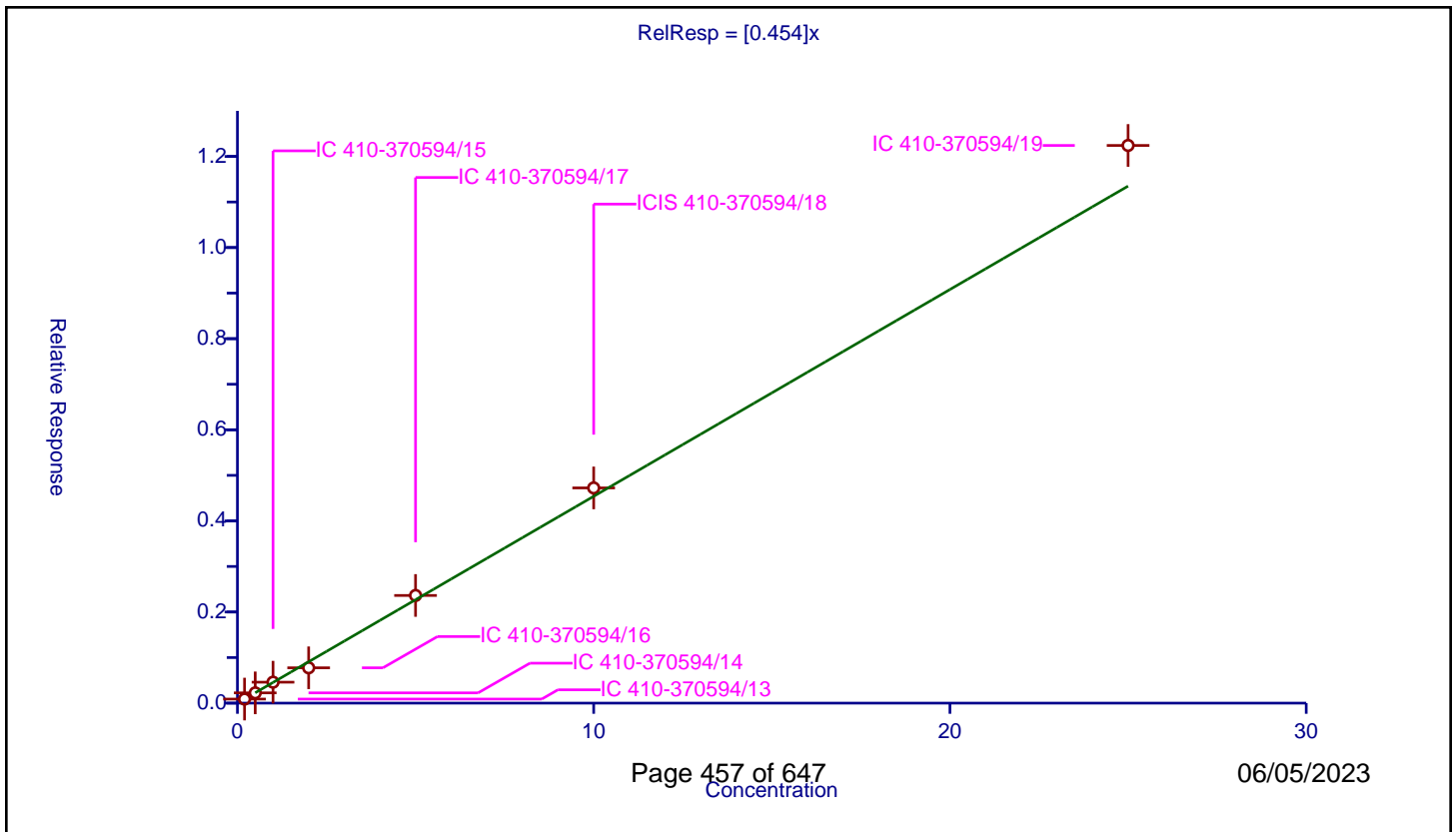
/ 2-Chloro-1,3-butadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.454

Error Coefficients	
Standard Error:	1100000
Relative Standard Error:	7.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.089058	10.0	1960073.0	0.44529	Y
2	IC 410-370594/14	0.5	0.225211	10.0	1943779.0	0.450422	Y
3	IC 410-370594/15	1.0	0.459561	10.0	1958541.0	0.459561	Y
4	IC 410-370594/16	2.0	0.775454	10.0	1967571.0	0.387727	Y
5	IC 410-370594/17	5.0	2.363627	10.0	1980922.0	0.472725	Y
6	ICIS 410-370594/18	10.0	4.723764	10.0	1979051.0	0.472376	Y
7	IC 410-370594/19	25.0	12.241359	10.0	2018771.0	0.489654	Y



Calibration

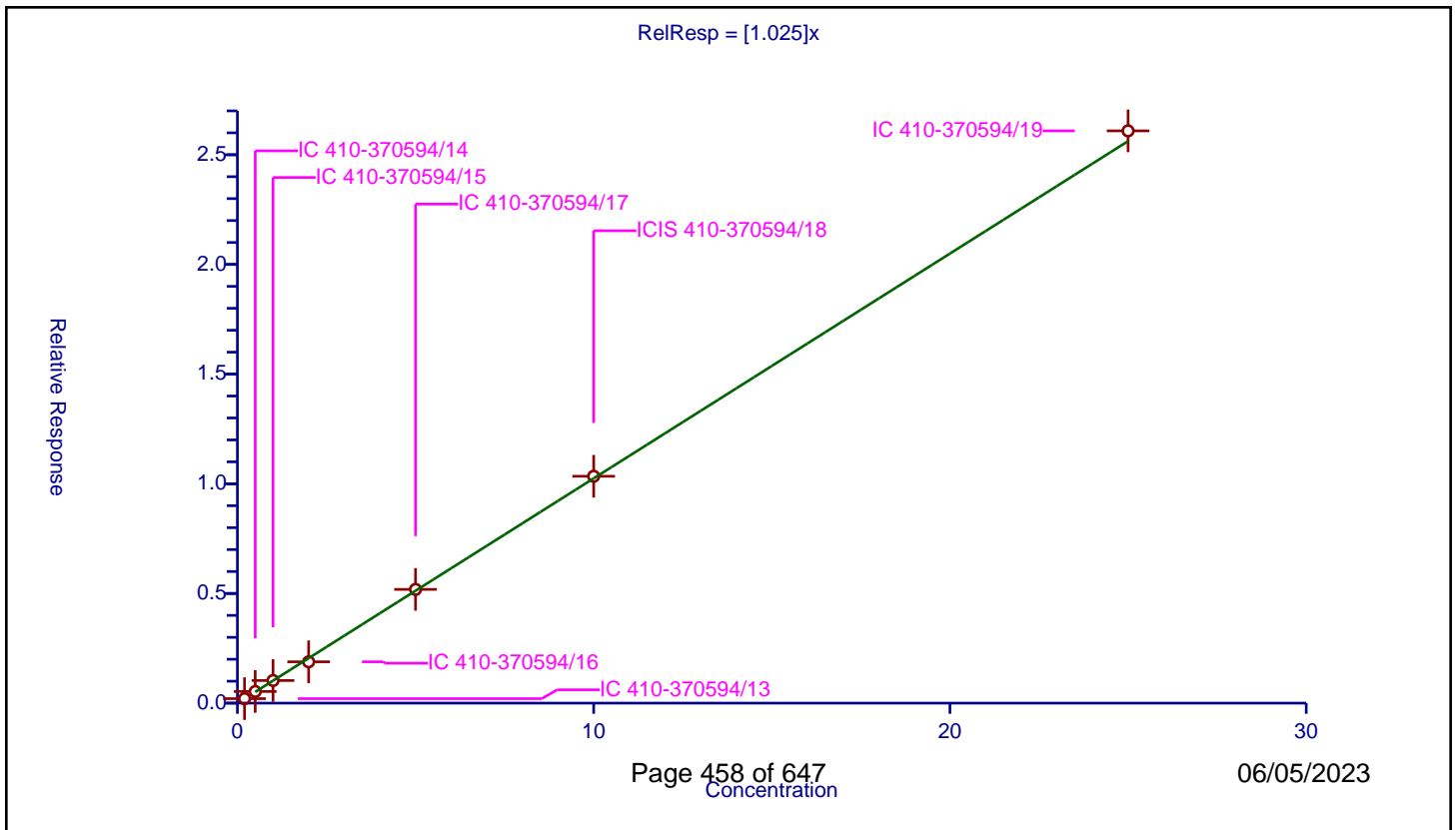
/ Tert-butyl ethyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.025

Error Coefficients	
Standard Error:	2350000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.204686	10.0	1960073.0	1.023431	Y
2	IC 410-370594/14	0.5	0.530955	10.0	1943779.0	1.061911	Y
3	IC 410-370594/15	1.0	1.030982	10.0	1958541.0	1.030982	Y
4	IC 410-370594/16	2.0	1.884105	10.0	1967571.0	0.942052	Y
5	IC 410-370594/17	5.0	5.185272	10.0	1980922.0	1.037054	Y
6	ICIS 410-370594/18	10.0	10.343084	10.0	1979051.0	1.034308	Y
7	IC 410-370594/19	25.0	26.088838	10.0	2018771.0	1.043554	Y



Calibration

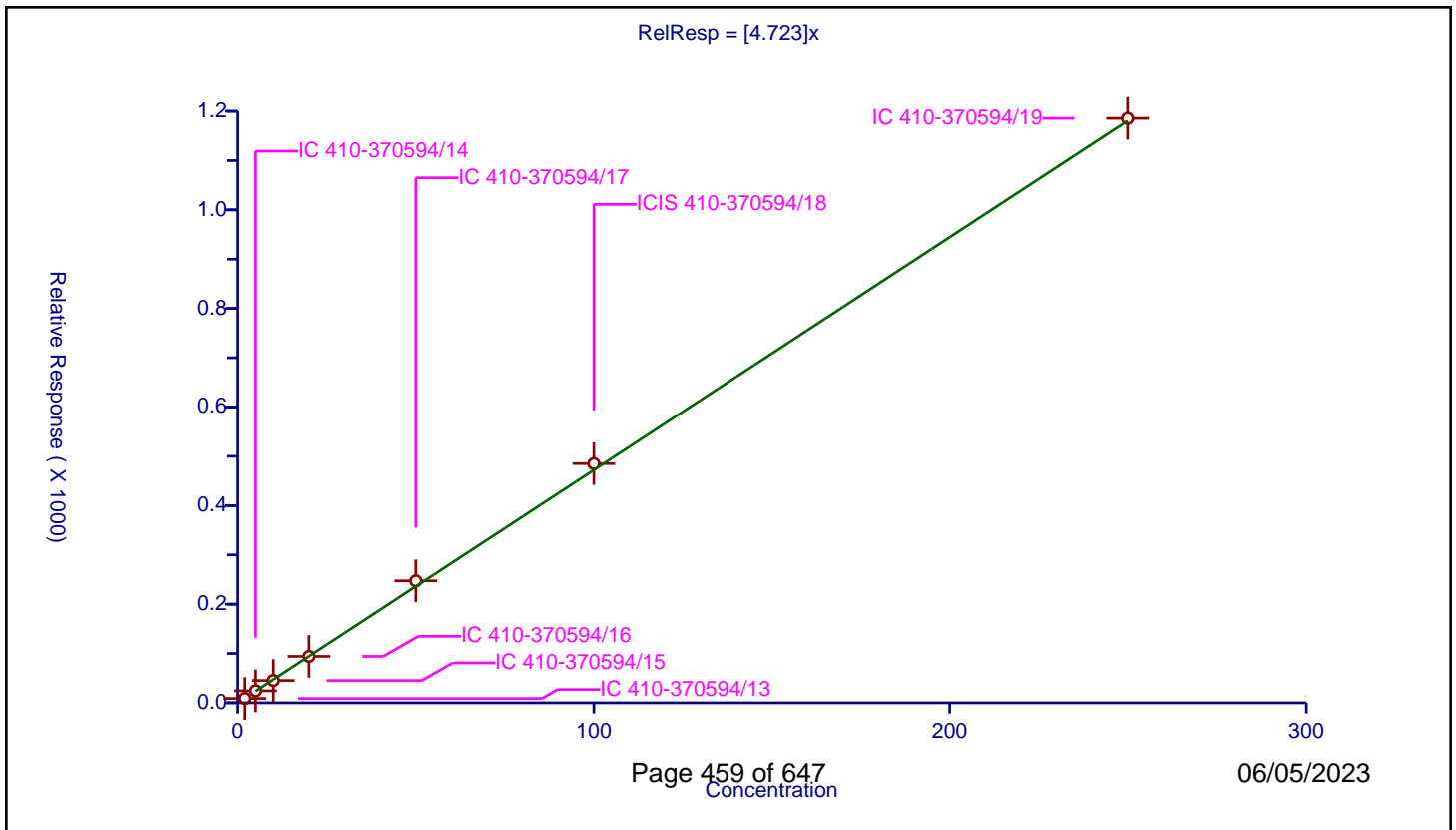
/ 2-Butanone (MEK)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.723

Error Coefficients	
Standard Error:	1750000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	2.0	8.826983	50.0	157568.0	4.413491	Y
2	IC 410-370594/14	5.0	24.346	50.0	155237.0	4.8692	Y
3	IC 410-370594/15	10.0	45.274581	50.0	157531.0	4.527458	Y
4	IC 410-370594/16	20.0	94.125452	50.0	155263.0	4.706273	Y
5	IC 410-370594/17	50.0	247.378625	50.0	154995.0	4.947573	Y
6	ICIS 410-370594/18	100.0	485.216286	50.0	158563.0	4.852163	Y
7	IC 410-370594/19	250.0	1185.683625	50.0	164937.0	4.742734	Y



Calibration

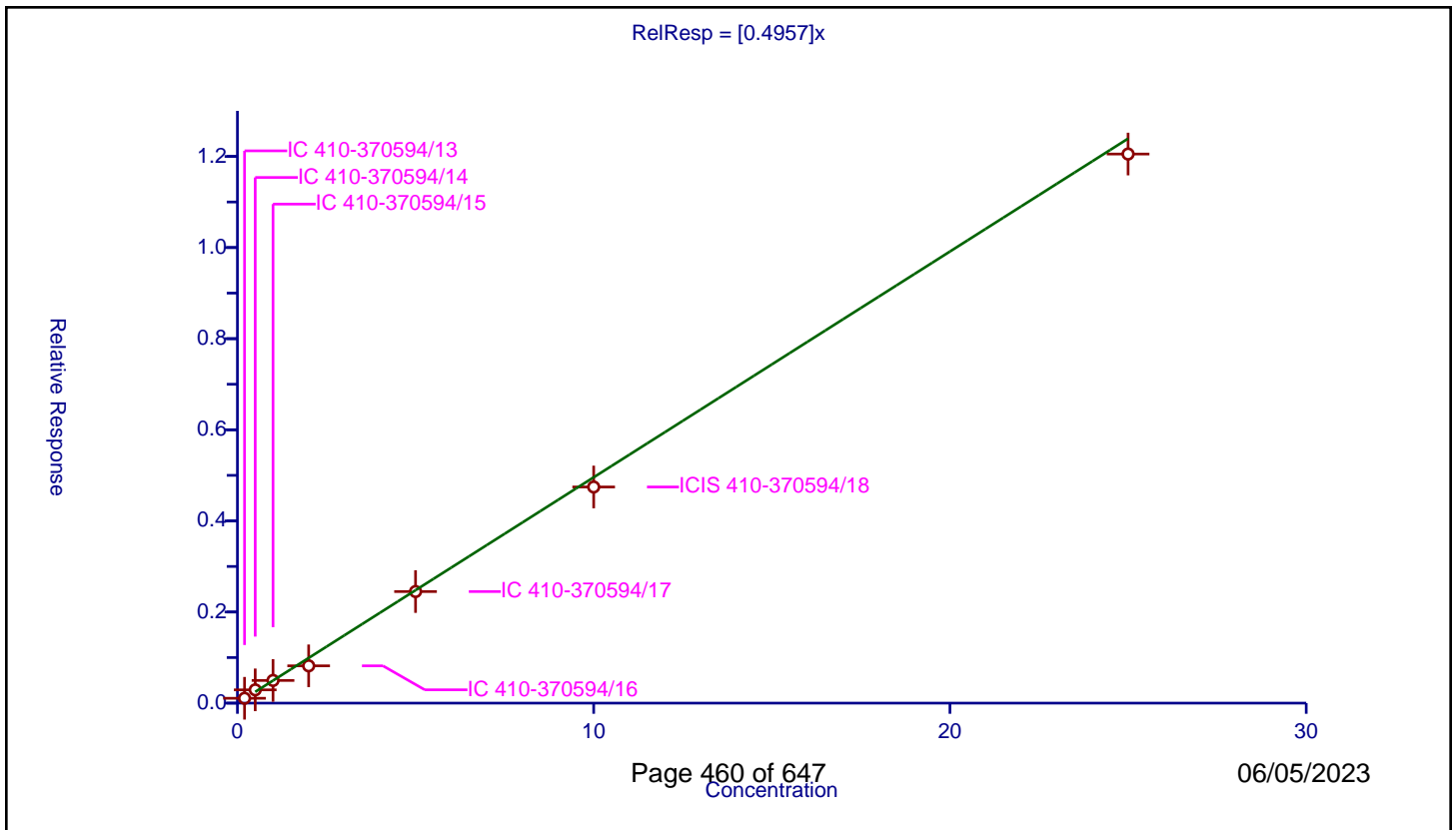
/ 2,2-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4957

Error Coefficients	
Standard Error:	1090000
Relative Standard Error:	10.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.106501	10.0	1960073.0	0.532506	Y
2	IC 410-370594/14	0.5	0.291576	10.0	1943779.0	0.583153	Y
3	IC 410-370594/15	1.0	0.498085	10.0	1958541.0	0.498085	Y
4	IC 410-370594/16	2.0	0.818807	10.0	1967571.0	0.409403	Y
5	IC 410-370594/17	5.0	2.44946	10.0	1980922.0	0.489892	Y
6	ICIS 410-370594/18	10.0	4.744693	10.0	1979051.0	0.474469	Y
7	IC 410-370594/19	25.0	12.053007	10.0	2018771.0	0.48212	Y



Calibration

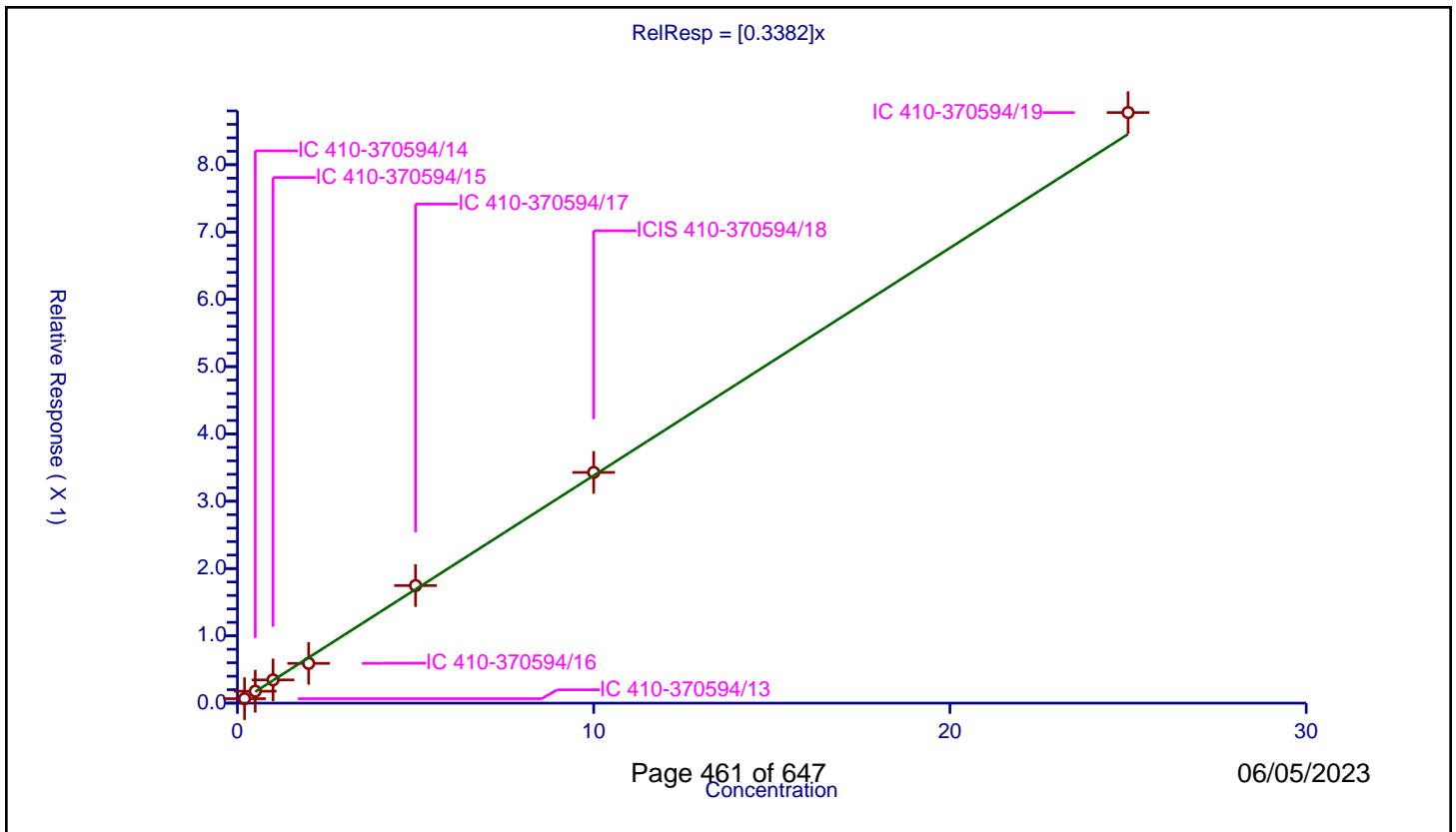
/ cis-1,2-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3382

Error Coefficients	
Standard Error:	789000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.065957	10.0	1960073.0	0.329784	Y
2	IC 410-370594/14	0.5	0.177001	10.0	1943779.0	0.354001	Y
3	IC 410-370594/15	1.0	0.344951	10.0	1958541.0	0.344951	Y
4	IC 410-370594/16	2.0	0.590601	10.0	1967571.0	0.295301	Y
5	IC 410-370594/17	5.0	1.747126	10.0	1980922.0	0.349425	Y
6	ICIS 410-370594/18	10.0	3.428123	10.0	1979051.0	0.342812	Y
7	IC 410-370594/19	25.0	8.775176	10.0	2018771.0	0.351007	Y



Calibration

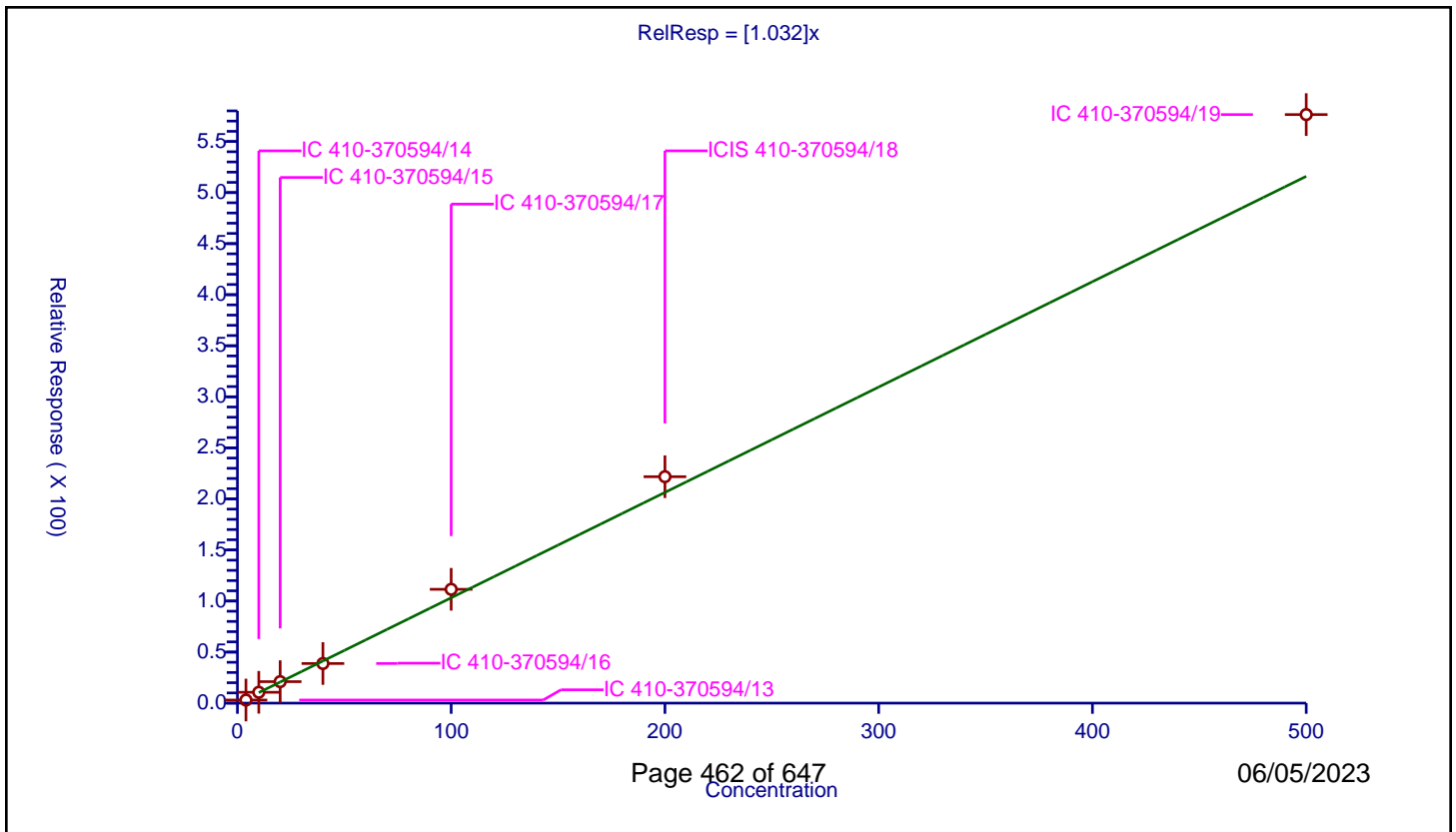
/ Propionitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.032

Error Coefficients	
Standard Error:	841000
Relative Standard Error:	12.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	4.0	3.047573	50.0	157568.0	0.761893	Y
2	IC 410-370594/14	10.0	10.628909	50.0	155237.0	1.062891	Y
3	IC 410-370594/15	20.0	21.033638	50.0	157531.0	1.051682	Y
4	IC 410-370594/16	40.0	38.803836	50.0	155263.0	0.970096	Y
5	IC 410-370594/17	100.0	111.456499	50.0	154995.0	1.114565	Y
6	ICIS 410-370594/18	200.0	221.743408	50.0	158563.0	1.108717	Y
7	IC 410-370594/19	500.0	576.386135	50.0	164937.0	1.152772	Y



Calibration

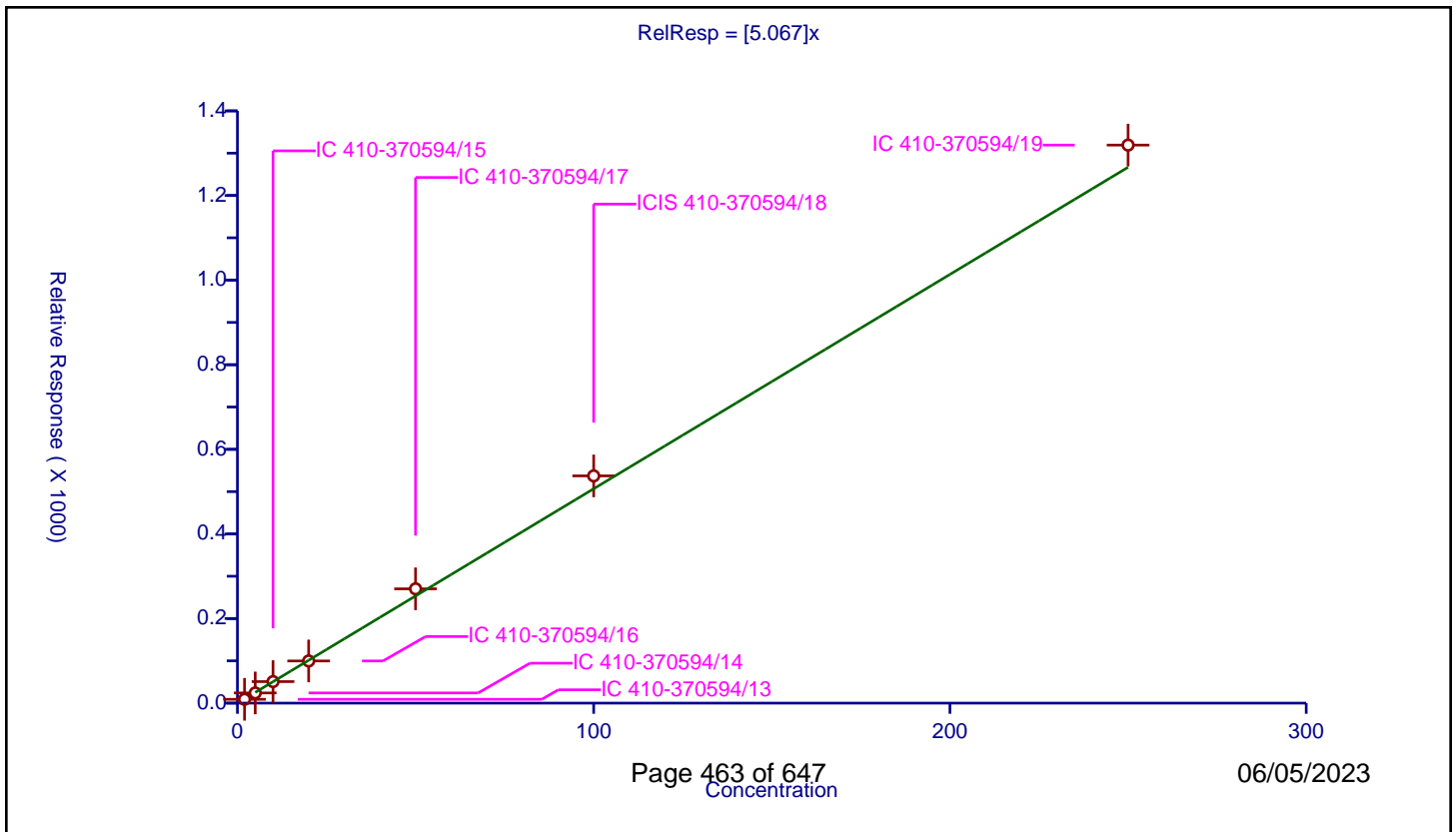
/ Methacrylonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.067

Error Coefficients	
Standard Error:	1940000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	2.0	9.044984	50.0	157568.0	4.522492	Y
2	IC 410-370594/14	5.0	24.098958	50.0	155237.0	4.819792	Y
3	IC 410-370594/15	10.0	50.928389	50.0	157531.0	5.092839	Y
4	IC 410-370594/16	20.0	99.667017	50.0	155263.0	4.983351	Y
5	IC 410-370594/17	50.0	270.164844	50.0	154995.0	5.403297	Y
6	ICIS 410-370594/18	100.0	537.181436	50.0	158563.0	5.371814	Y
7	IC 410-370594/19	250.0	1319.157315	50.0	164937.0	5.276629	Y



Calibration

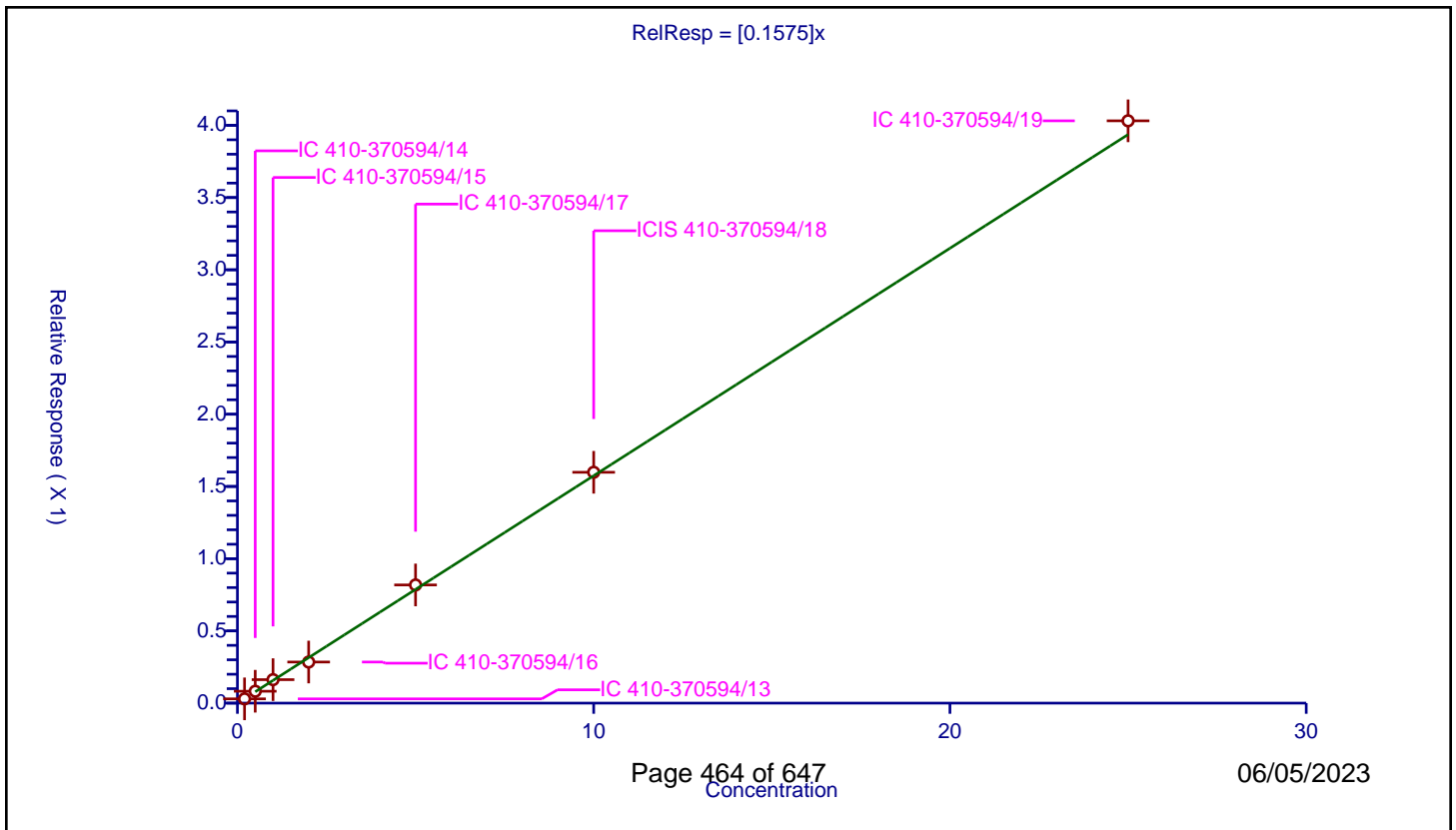
/ Chlorobromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1575

Error Coefficients	
Standard Error:	364000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.029581	10.0	1960073.0	0.147903	Y
2	IC 410-370594/14	0.5	0.08235	10.0	1943779.0	0.1647	Y
3	IC 410-370594/15	1.0	0.162544	10.0	1958541.0	0.162544	Y
4	IC 410-370594/16	2.0	0.28464	10.0	1967571.0	0.14232	Y
5	IC 410-370594/17	5.0	0.818149	10.0	1980922.0	0.16363	Y
6	ICIS 410-370594/18	10.0	1.5982	10.0	1979051.0	0.15982	Y
7	IC 410-370594/19	25.0	4.031215	10.0	2018771.0	0.161249	Y



Calibration

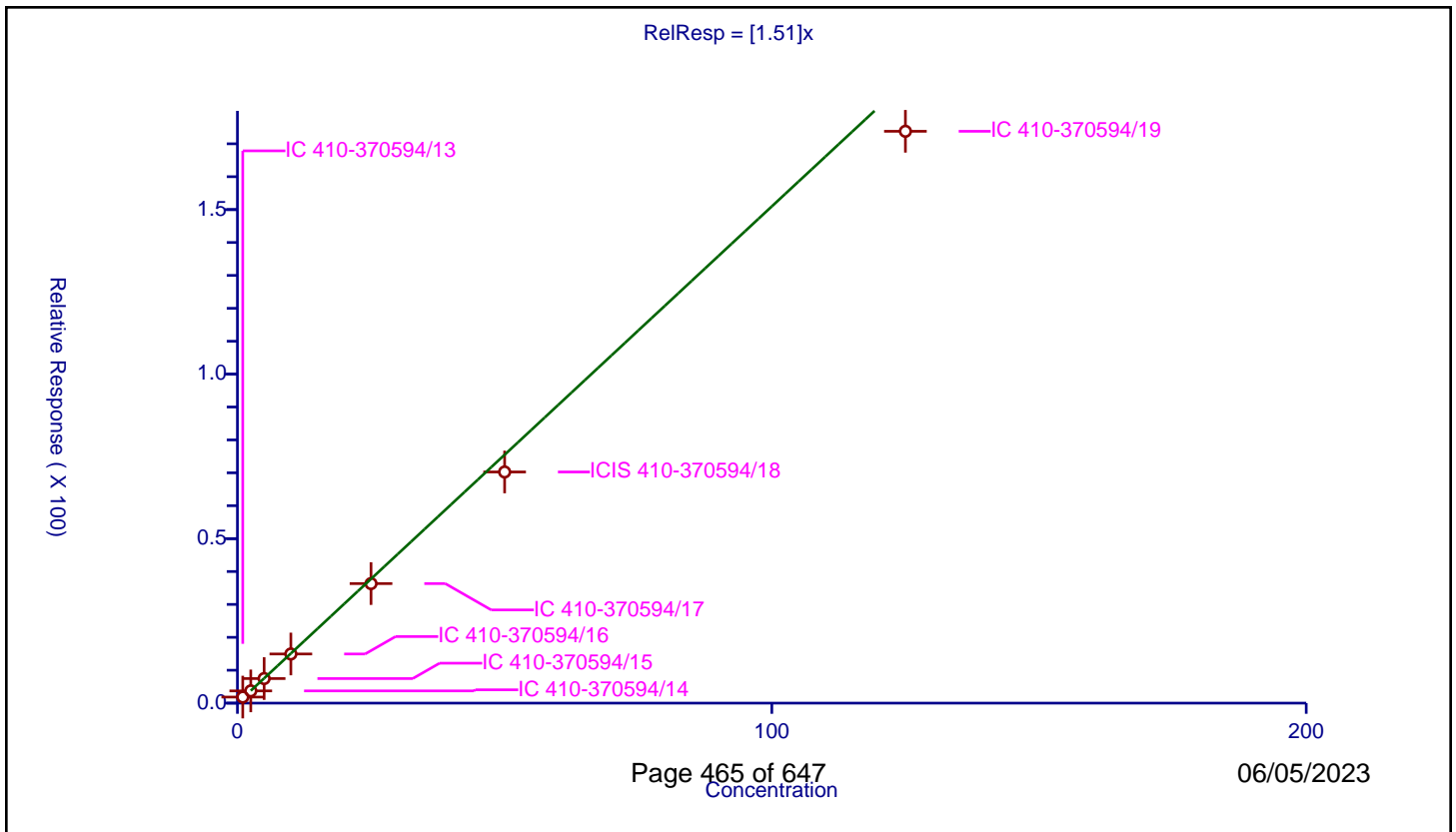
/ Tetrahydrofuran

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.51

Error Coefficients	
Standard Error:	256000
Relative Standard Error:	10.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	1.0	1.843966	50.0	157568.0	1.843966	Y
2	IC 410-370594/14	2.5	3.72044	50.0	155237.0	1.488176	Y
3	IC 410-370594/15	5.0	7.466784	50.0	157531.0	1.493357	Y
4	IC 410-370594/16	10.0	14.940456	50.0	155263.0	1.494046	Y
5	IC 410-370594/17	25.0	36.330527	50.0	154995.0	1.453221	Y
6	ICIS 410-370594/18	50.0	70.255356	50.0	158563.0	1.405107	Y
7	IC 410-370594/19	125.0	173.79939	50.0	164937.0	1.390395	Y



Calibration

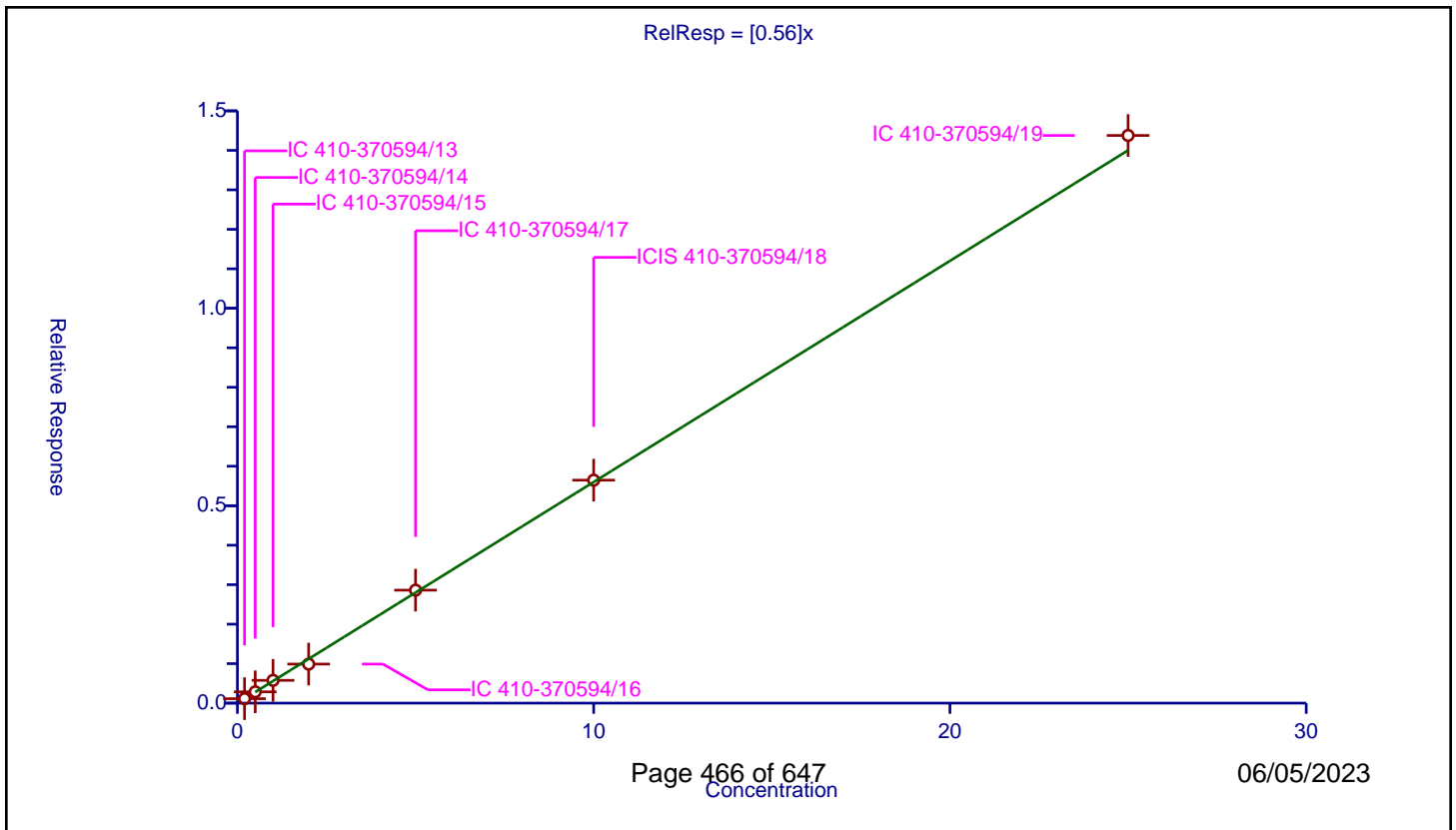
/ Chloroform

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.56

Error Coefficients	
Standard Error:	1290000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.112613	10.0	1960073.0	0.563066	Y
2	IC 410-370594/14	0.5	0.286622	10.0	1943779.0	0.573244	Y
3	IC 410-370594/15	1.0	0.577384	10.0	1958541.0	0.577384	Y
4	IC 410-370594/16	2.0	0.989235	10.0	1967571.0	0.494617	Y
5	IC 410-370594/17	5.0	2.861097	10.0	1980922.0	0.572219	Y
6	ICIS 410-370594/18	10.0	5.646984	10.0	1979051.0	0.564698	Y
7	IC 410-370594/19	25.0	14.377579	10.0	2018771.0	0.575103	Y



Calibration

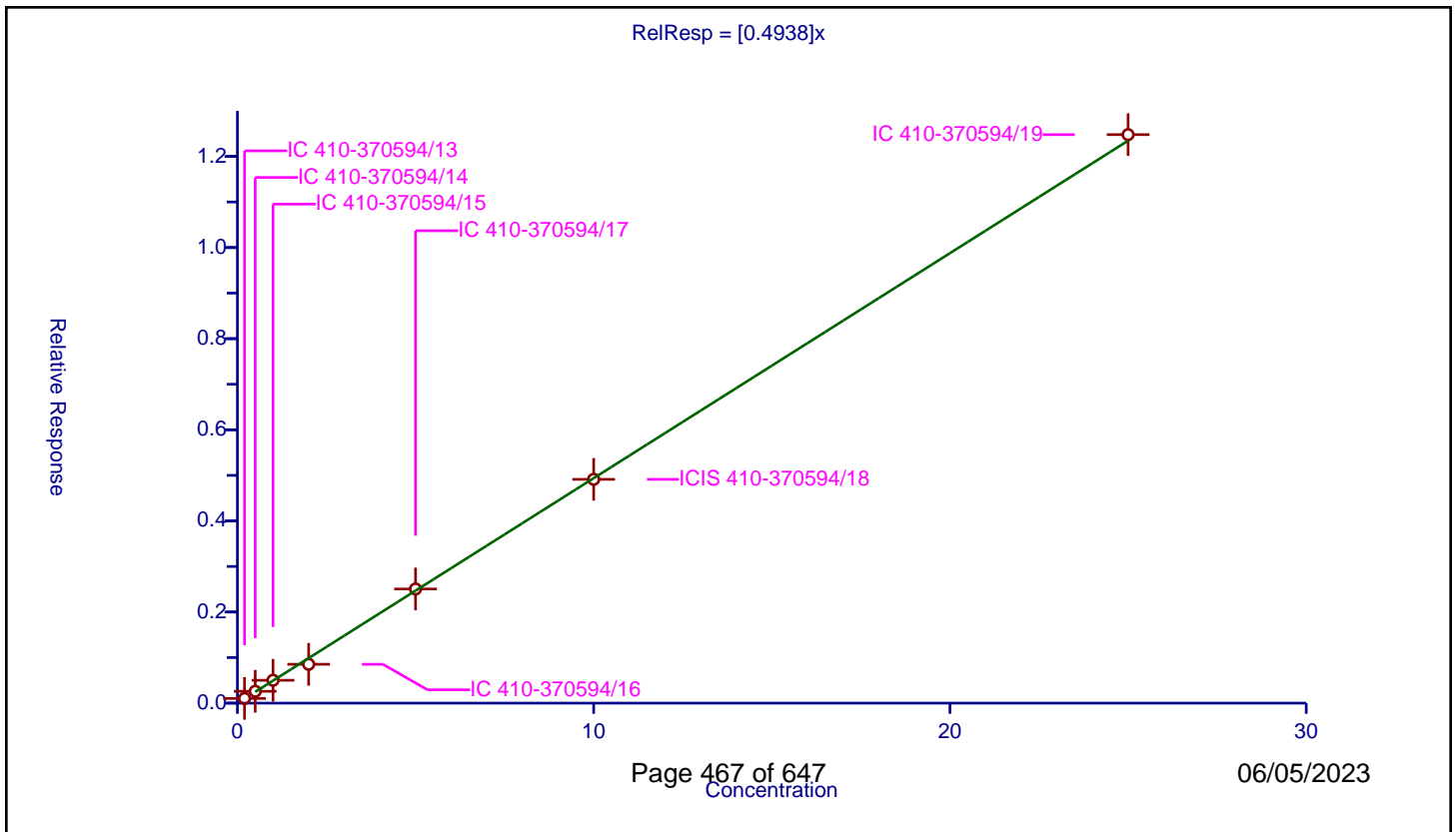
/ 1,1,1-Trichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4938

Error Coefficients	
Standard Error:	1120000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.103328	10.0	1960073.0	0.516639	Y
2	IC 410-370594/14	0.5	0.259968	10.0	1943779.0	0.519936	Y
3	IC 410-370594/15	1.0	0.50194	10.0	1958541.0	0.50194	Y
4	IC 410-370594/16	2.0	0.853245	10.0	1967571.0	0.426622	Y
5	IC 410-370594/17	5.0	2.505853	10.0	1980922.0	0.501171	Y
6	ICIS 410-370594/18	10.0	4.912314	10.0	1979051.0	0.491231	Y
7	IC 410-370594/19	25.0	12.478439	10.0	2018771.0	0.499138	Y



Calibration

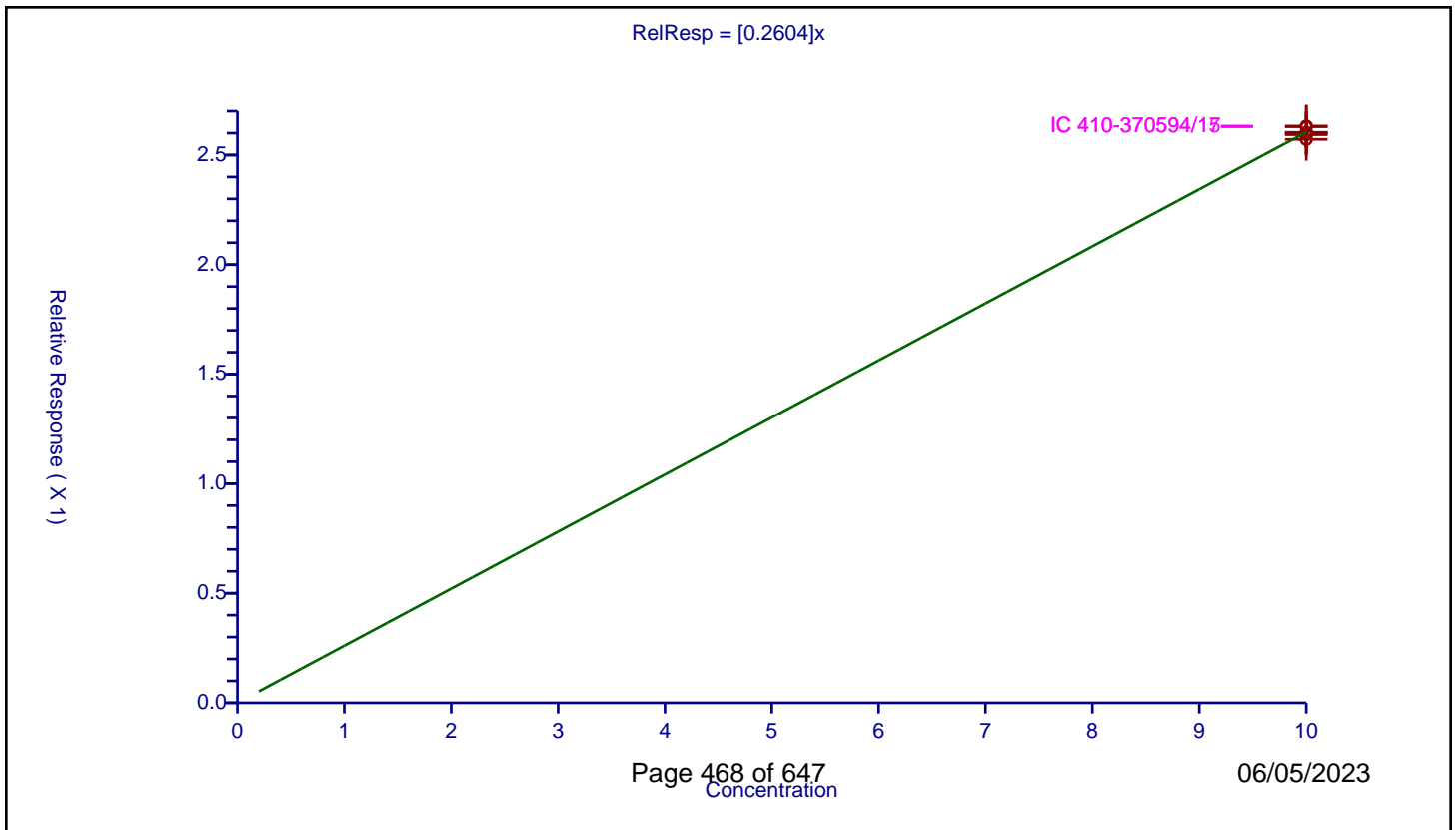
/ Dibromofluoromethane (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2604

Error Coefficients	
Standard Error:	555000
Relative Standard Error:	0.8
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	10.0	2.599169	10.0	1960073.0	0.259917	Y
2	IC 410-370594/14	10.0	2.603424	10.0	1943779.0	0.260342	Y
3	IC 410-370594/15	10.0	2.632189	10.0	1958541.0	0.263219	Y
4	IC 410-370594/16	10.0	2.592918	10.0	1967571.0	0.259292	Y
5	IC 410-370594/17	10.0	2.629306	10.0	1980922.0	0.262931	Y
6	ICIS 410-370594/18	10.0	2.601803	10.0	1979051.0	0.26018	Y
7	IC 410-370594/19	10.0	2.571545	10.0	2018771.0	0.257154	Y



Calibration

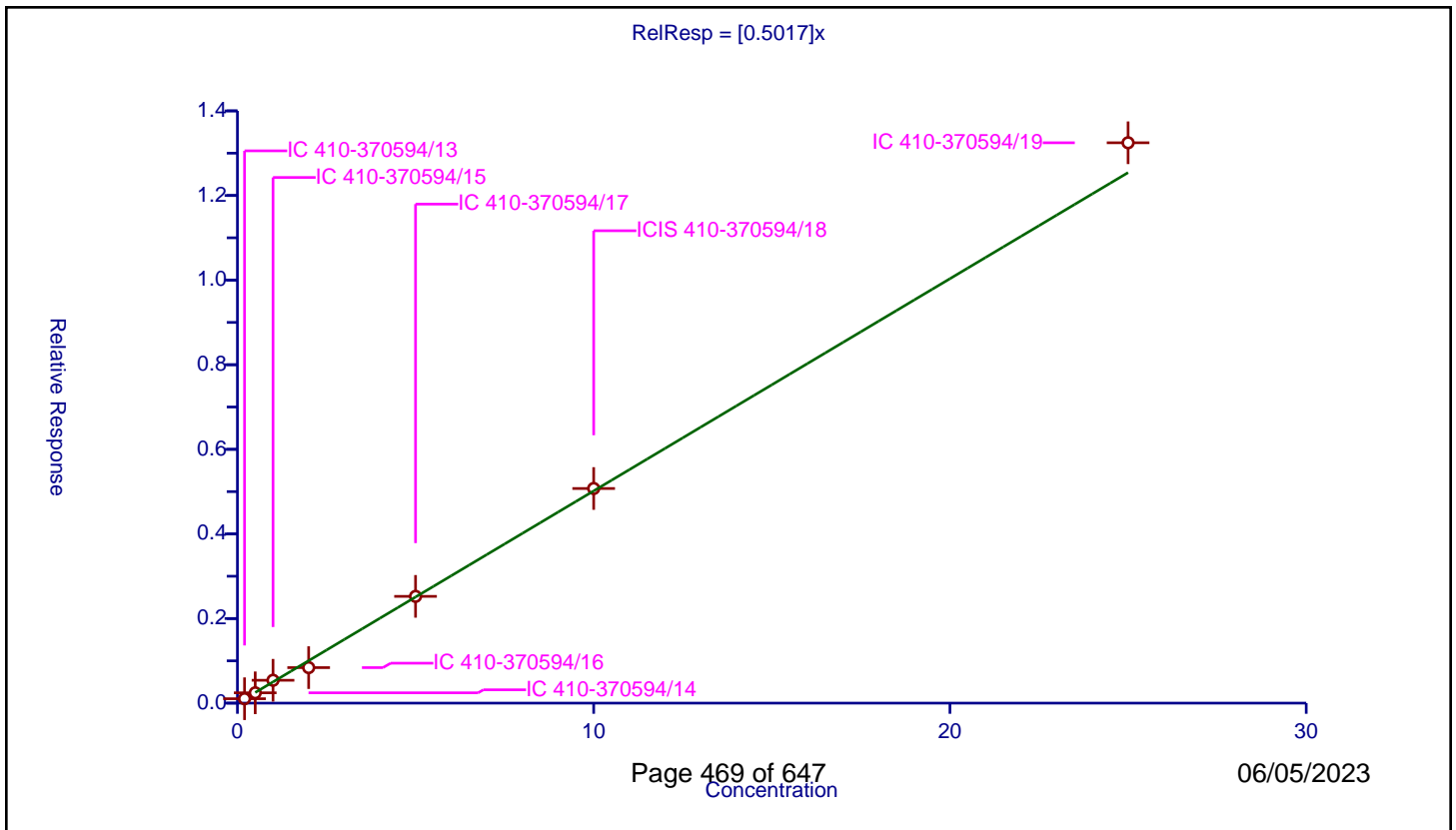
/ Cyclohexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5017

Error Coefficients	
Standard Error:	1190000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.104353	10.0	1960073.0	0.521766	Y
2	IC 410-370594/14	0.5	0.243762	10.0	1943779.0	0.487525	Y
3	IC 410-370594/15	1.0	0.540382	10.0	1958541.0	0.540382	Y
4	IC 410-370594/16	2.0	0.839873	10.0	1967571.0	0.419937	Y
5	IC 410-370594/17	5.0	2.524001	10.0	1980922.0	0.5048	Y
6	ICIS 410-370594/18	10.0	5.073619	10.0	1979051.0	0.507362	Y
7	IC 410-370594/19	25.0	13.246361	10.0	2018771.0	0.529854	Y



Calibration

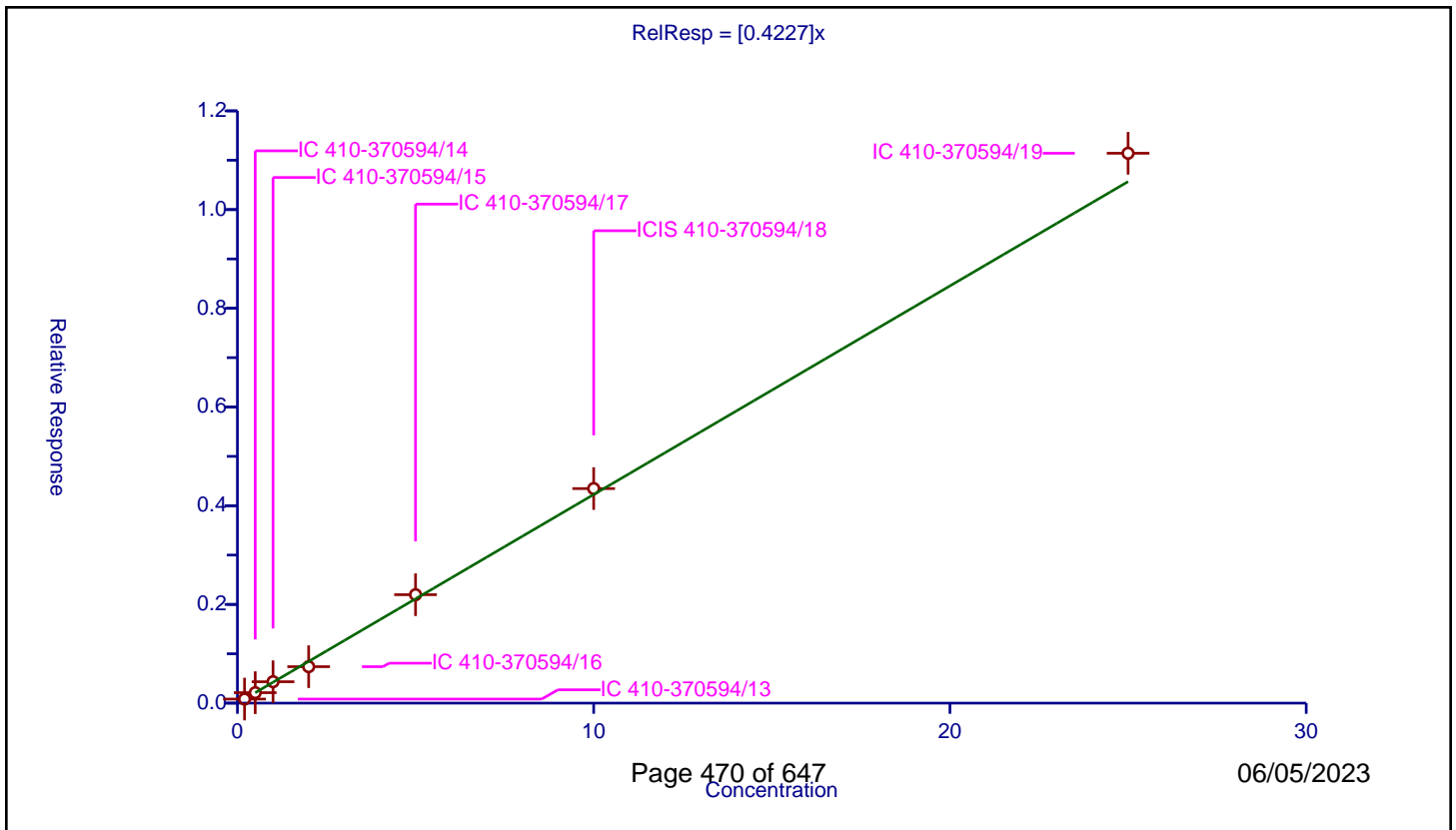
/ Carbon tetrachloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4227

Error Coefficients	
Standard Error:	1000000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.0824	10.0	1960073.0	0.412	Y
2	IC 410-370594/14	0.5	0.21202	10.0	1943779.0	0.42404	Y
3	IC 410-370594/15	1.0	0.433813	10.0	1958541.0	0.433813	Y
4	IC 410-370594/16	2.0	0.738383	10.0	1967571.0	0.369191	Y
5	IC 410-370594/17	5.0	2.197012	10.0	1980922.0	0.439402	Y
6	ICIS 410-370594/18	10.0	4.34725	10.0	1979051.0	0.434725	Y
7	IC 410-370594/19	25.0	11.141145	10.0	2018771.0	0.445646	Y



Calibration

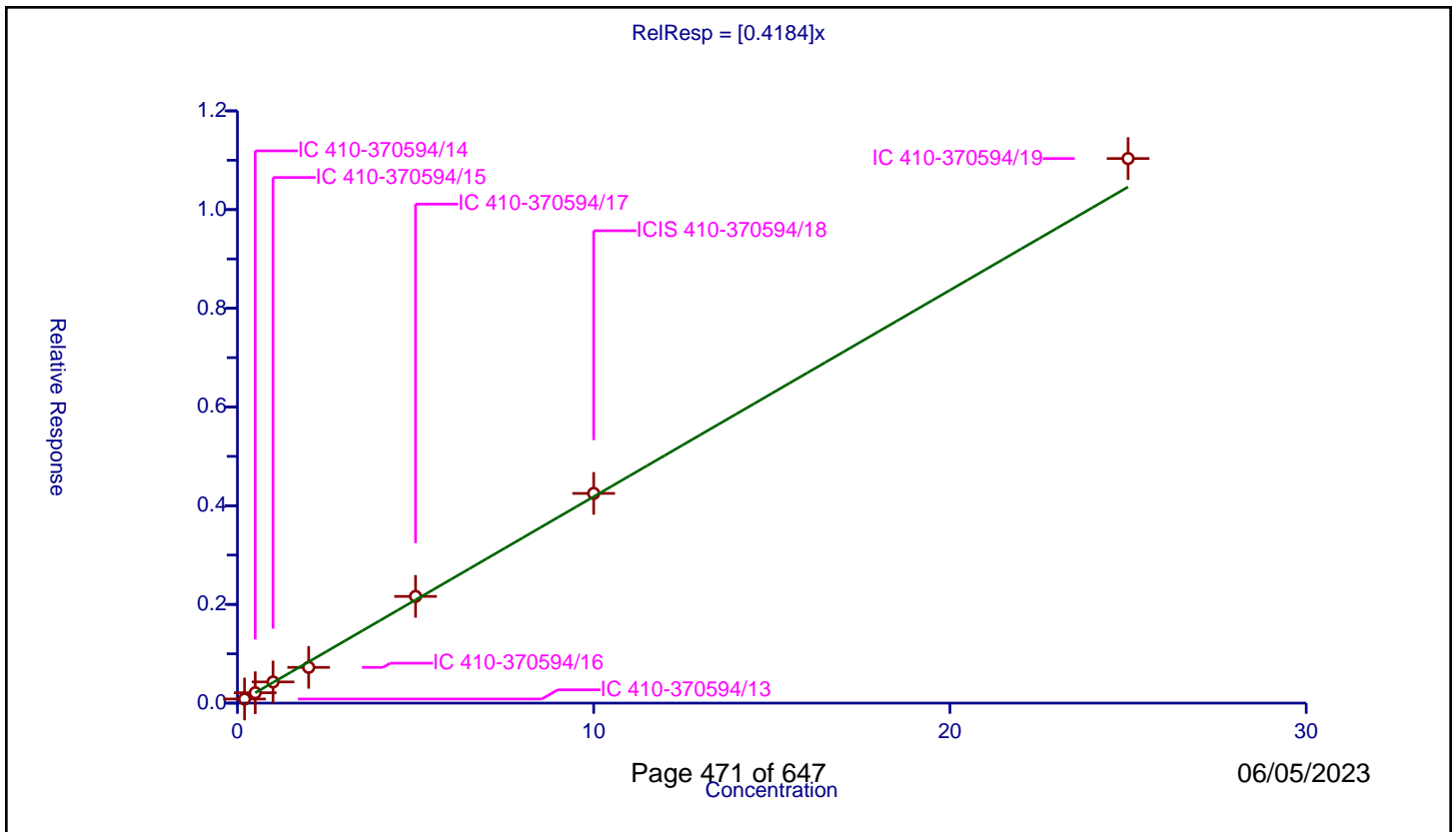
/ 1,1-Dichloropropene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4184

Error Coefficients	
Standard Error:	990000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.083512	10.0	1960073.0	0.417561	Y
2	IC 410-370594/14	0.5	0.210168	10.0	1943779.0	0.420336	Y
3	IC 410-370594/15	1.0	0.429498	10.0	1958541.0	0.429498	Y
4	IC 410-370594/16	2.0	0.724619	10.0	1967571.0	0.36231	Y
5	IC 410-370594/17	5.0	2.162417	10.0	1980922.0	0.432483	Y
6	ICIS 410-370594/18	10.0	4.249289	10.0	1979051.0	0.424929	Y
7	IC 410-370594/19	25.0	11.034377	10.0	2018771.0	0.441375	Y



Calibration

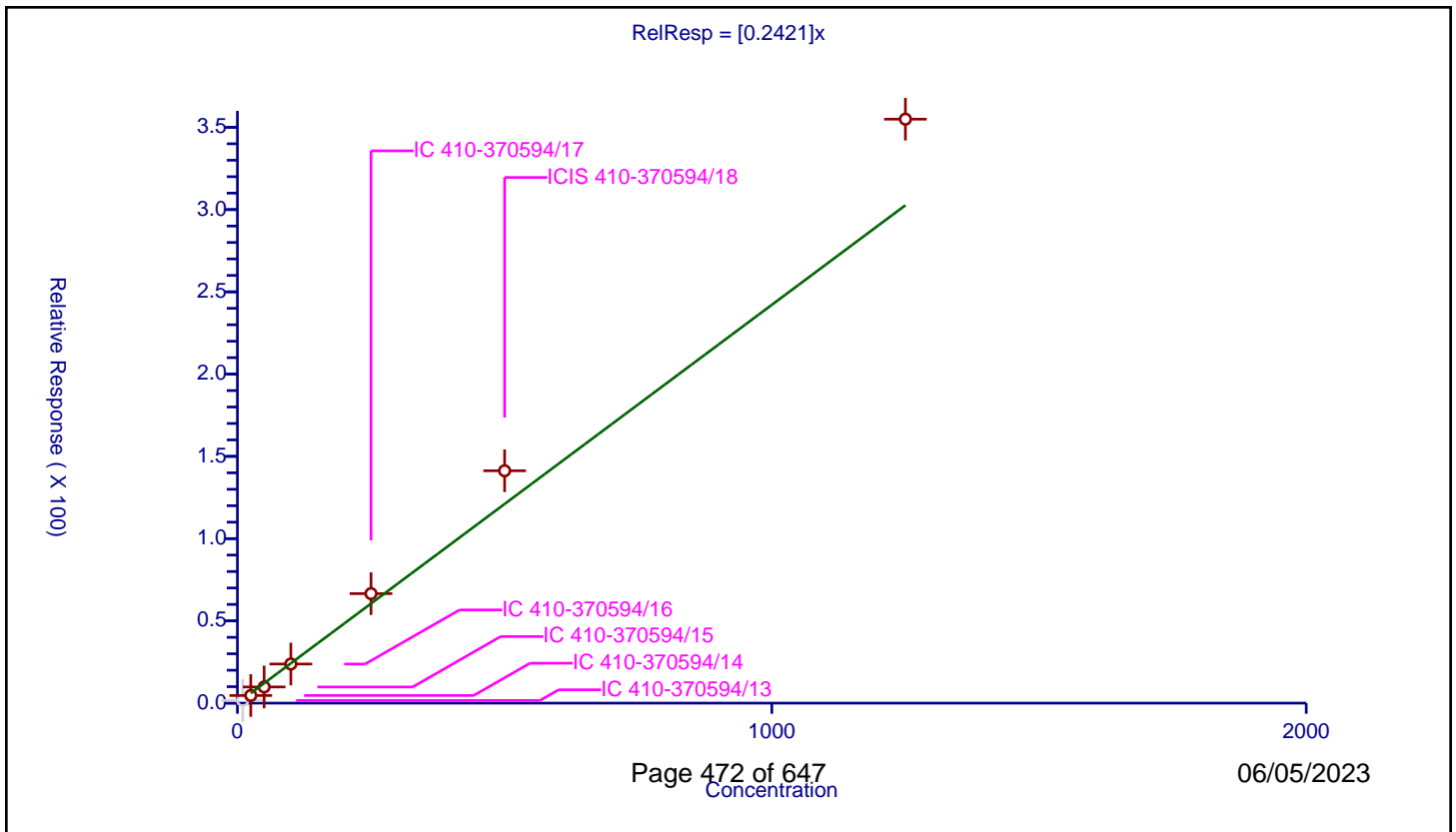
/ Isobutyl alcohol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2421

Error Coefficients	
Standard Error:	569000
Relative Standard Error:	17.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.962

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	10.0	1.608512	50.0	157568.0	0.160851	N
2	IC 410-370594/14	25.0	4.63195	50.0	155237.0	0.185278	Y
3	IC 410-370594/15	50.0	9.841872	50.0	157531.0	0.196837	Y
4	IC 410-370594/16	100.0	23.775143	50.0	155263.0	0.237751	Y
5	IC 410-370594/17	250.0	66.568922	50.0	154995.0	0.266276	Y
6	ICIS 410-370594/18	500.0	141.248589	50.0	158563.0	0.282497	Y
7	IC 410-370594/19	1250.0	354.966745	50.0	164937.0	0.283973	Y



Calibration

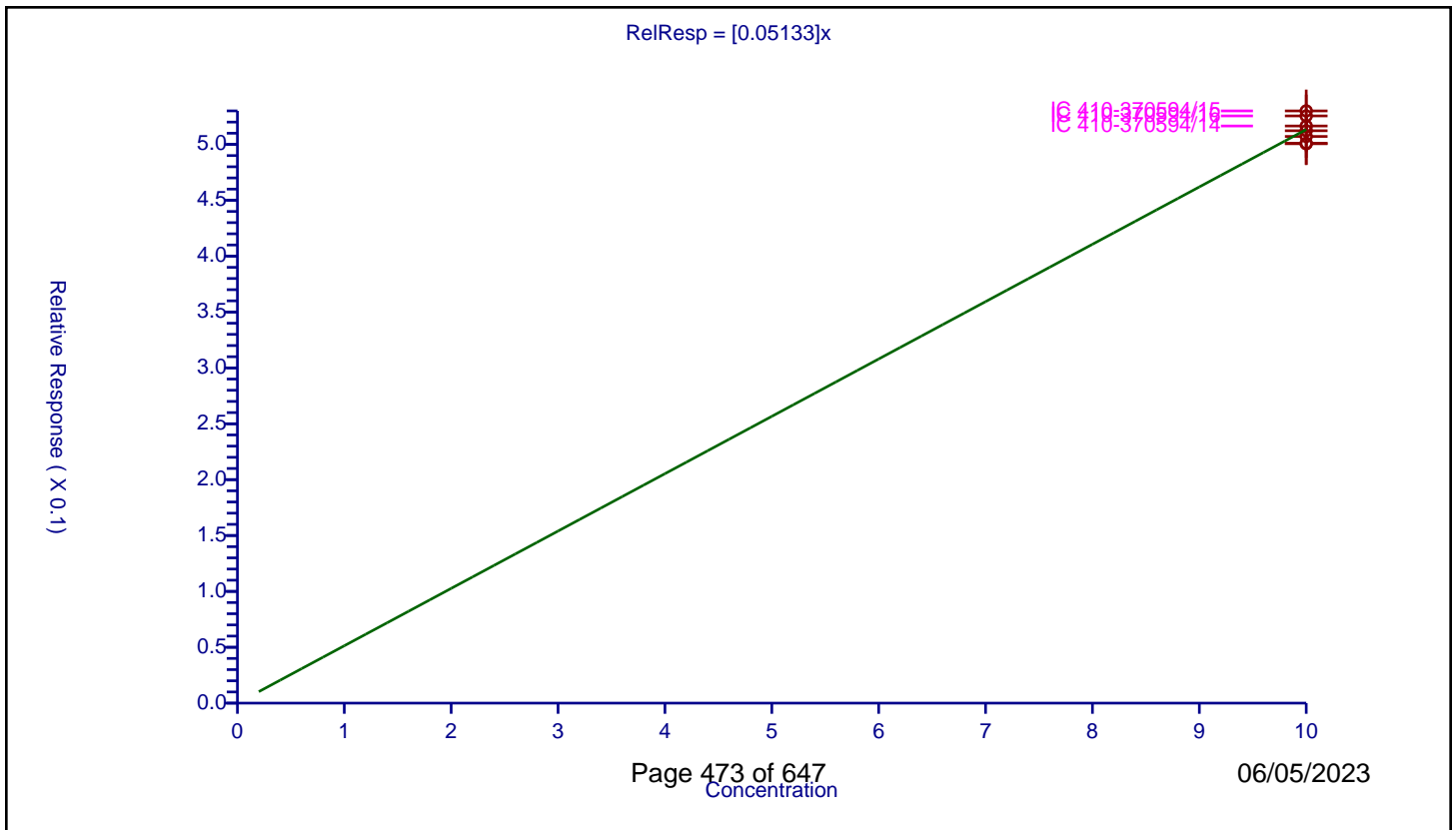
/ 1,2-Dichloroethane-d4 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.05133

Error Coefficients	
Standard Error:	109000
Relative Standard Error:	2.2
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	10.0	0.507129	10.0	1960073.0	0.050713	Y
2	IC 410-370594/14	10.0	0.516478	10.0	1943779.0	0.051648	Y
3	IC 410-370594/15	10.0	0.529986	10.0	1958541.0	0.052999	Y
4	IC 410-370594/16	10.0	0.525485	10.0	1967571.0	0.052549	Y
5	IC 410-370594/17	10.0	0.500585	10.0	1980922.0	0.050059	Y
6	ICIS 410-370594/18	10.0	0.512251	10.0	1979051.0	0.051225	Y
7	IC 410-370594/19	10.0	0.501047	10.0	2018771.0	0.050105	Y



Calibration

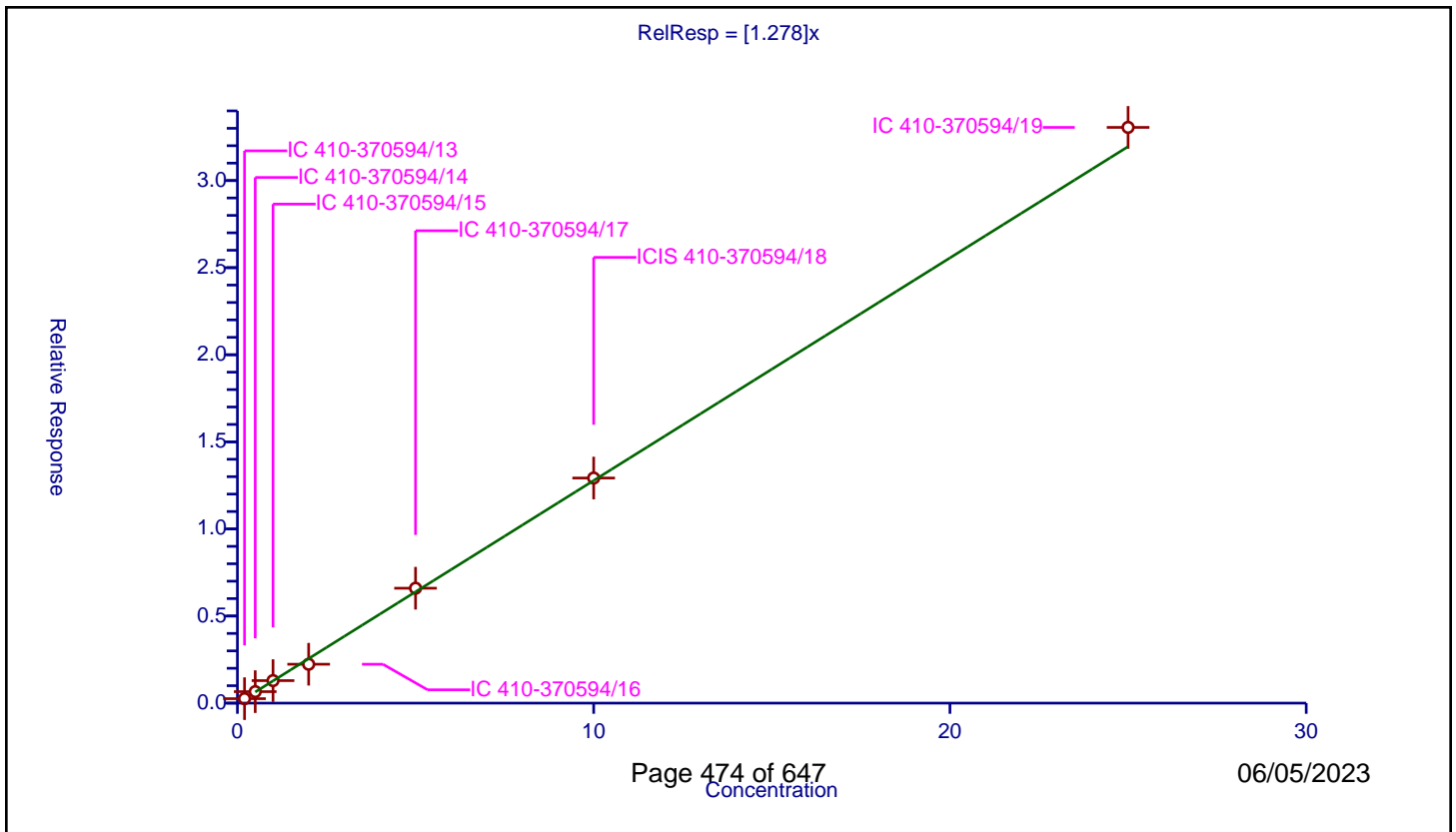
/ Benzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.278

Error Coefficients	
Standard Error:	2970000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.256837	10.0	1960073.0	1.284187	Y
2	IC 410-370594/14	0.5	0.659118	10.0	1943779.0	1.318236	Y
3	IC 410-370594/15	1.0	1.293208	10.0	1958541.0	1.293208	Y
4	IC 410-370594/16	2.0	2.232956	10.0	1967571.0	1.116478	Y
5	IC 410-370594/17	5.0	6.596751	10.0	1980922.0	1.31935	Y
6	ICIS 410-370594/18	10.0	12.923154	10.0	1979051.0	1.292315	Y
7	IC 410-370594/19	25.0	33.052407	10.0	2018771.0	1.322096	Y



Calibration

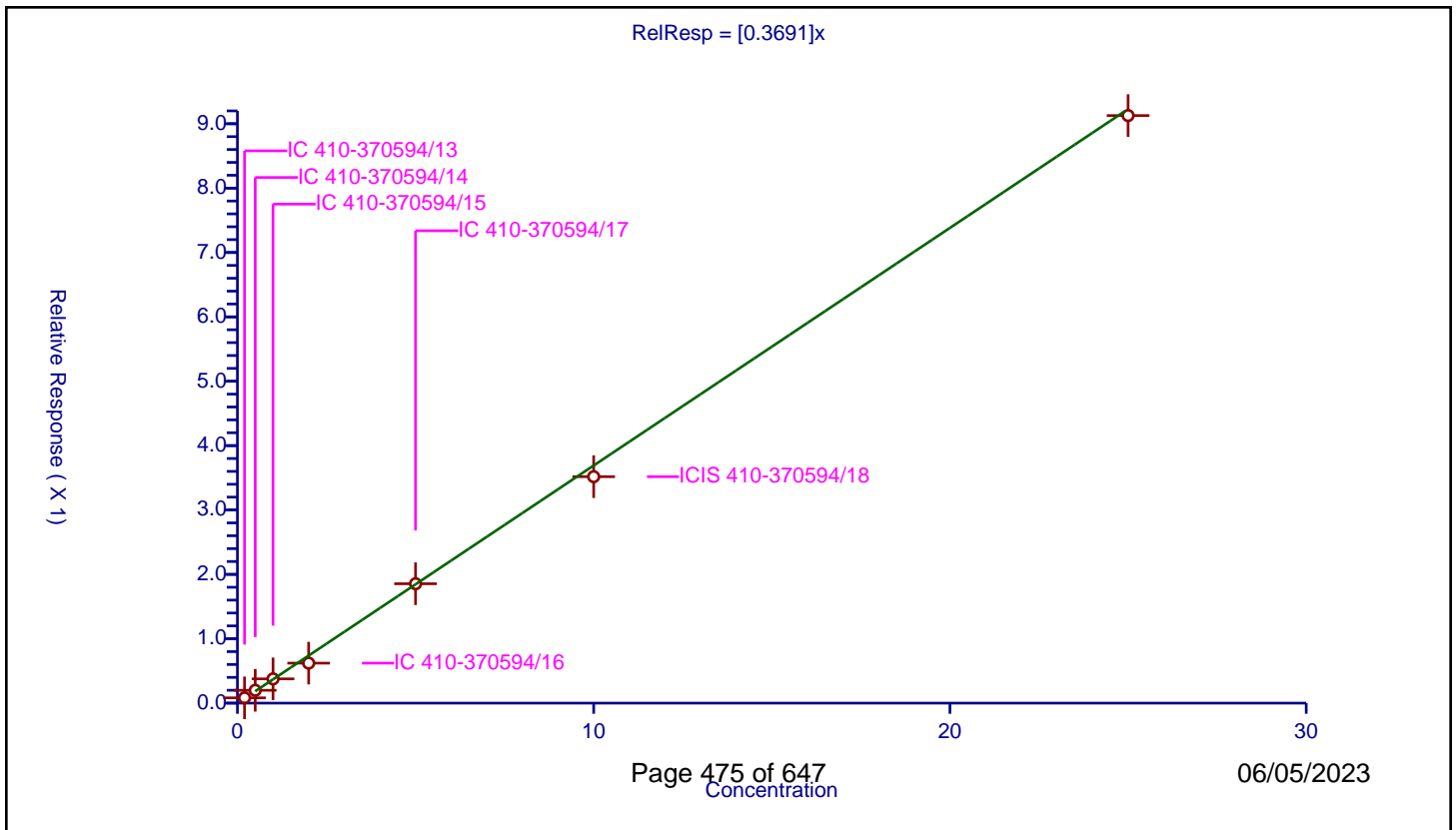
/ 1,2-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3691

Error Coefficients	
Standard Error:	820000
Relative Standard Error:	8.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.082028	10.0	1960073.0	0.410138	Y
2	IC 410-370594/14	0.5	0.19938	10.0	1943779.0	0.398759	Y
3	IC 410-370594/15	1.0	0.376632	10.0	1958541.0	0.376632	Y
4	IC 410-370594/16	2.0	0.621157	10.0	1967571.0	0.310578	Y
5	IC 410-370594/17	5.0	1.854566	10.0	1980922.0	0.370913	Y
6	ICIS 410-370594/18	10.0	3.517908	10.0	1979051.0	0.351791	Y
7	IC 410-370594/19	25.0	9.12736	10.0	2018771.0	0.365094	Y



Calibration

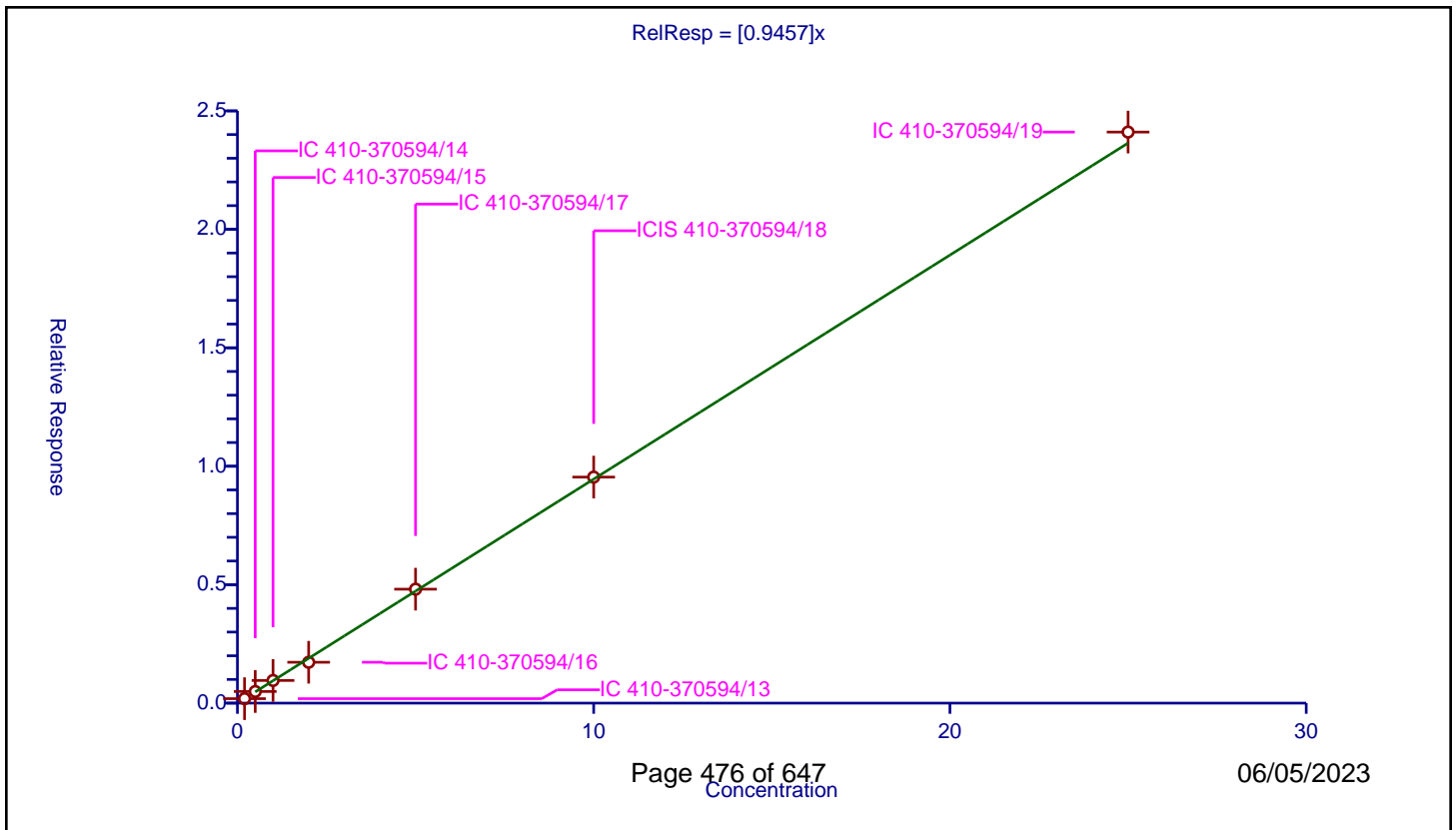
/ Tert-amyl methyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9457

Error Coefficients	
Standard Error:	2170000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.187973	10.0	1960073.0	0.939863	Y
2	IC 410-370594/14	0.5	0.490565	10.0	1943779.0	0.98113	Y
3	IC 410-370594/15	1.0	0.955941	10.0	1958541.0	0.955941	Y
4	IC 410-370594/16	2.0	1.724893	10.0	1967571.0	0.862447	Y
5	IC 410-370594/17	5.0	4.809962	10.0	1980922.0	0.961992	Y
6	ICIS 410-370594/18	10.0	9.541073	10.0	1979051.0	0.954107	Y
7	IC 410-370594/19	25.0	24.105651	10.0	2018771.0	0.964226	Y



Calibration

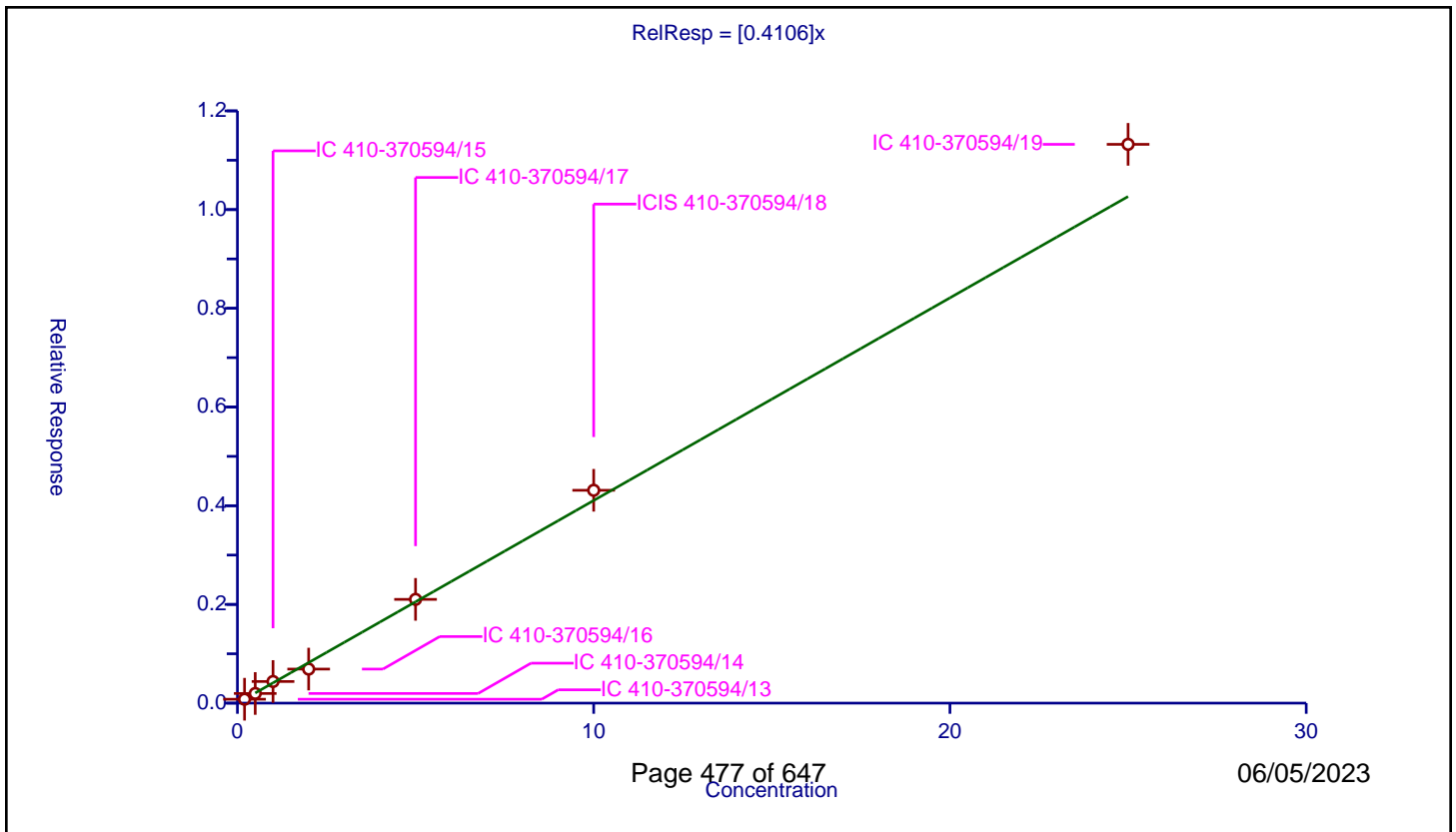
/ n-Heptane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4106

Error Coefficients	
Standard Error:	1010000
Relative Standard Error:	8.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.07891	10.0	1960073.0	0.394552	Y
2	IC 410-370594/14	0.5	0.195742	10.0	1943779.0	0.391485	Y
3	IC 410-370594/15	1.0	0.438531	10.0	1958541.0	0.438531	Y
4	IC 410-370594/16	2.0	0.689825	10.0	1967571.0	0.344913	Y
5	IC 410-370594/17	5.0	2.102445	10.0	1980922.0	0.420489	Y
6	ICIS 410-370594/18	10.0	4.312749	10.0	1979051.0	0.431275	Y
7	IC 410-370594/19	25.0	11.32226	10.0	2018771.0	0.45289	Y



Calibration

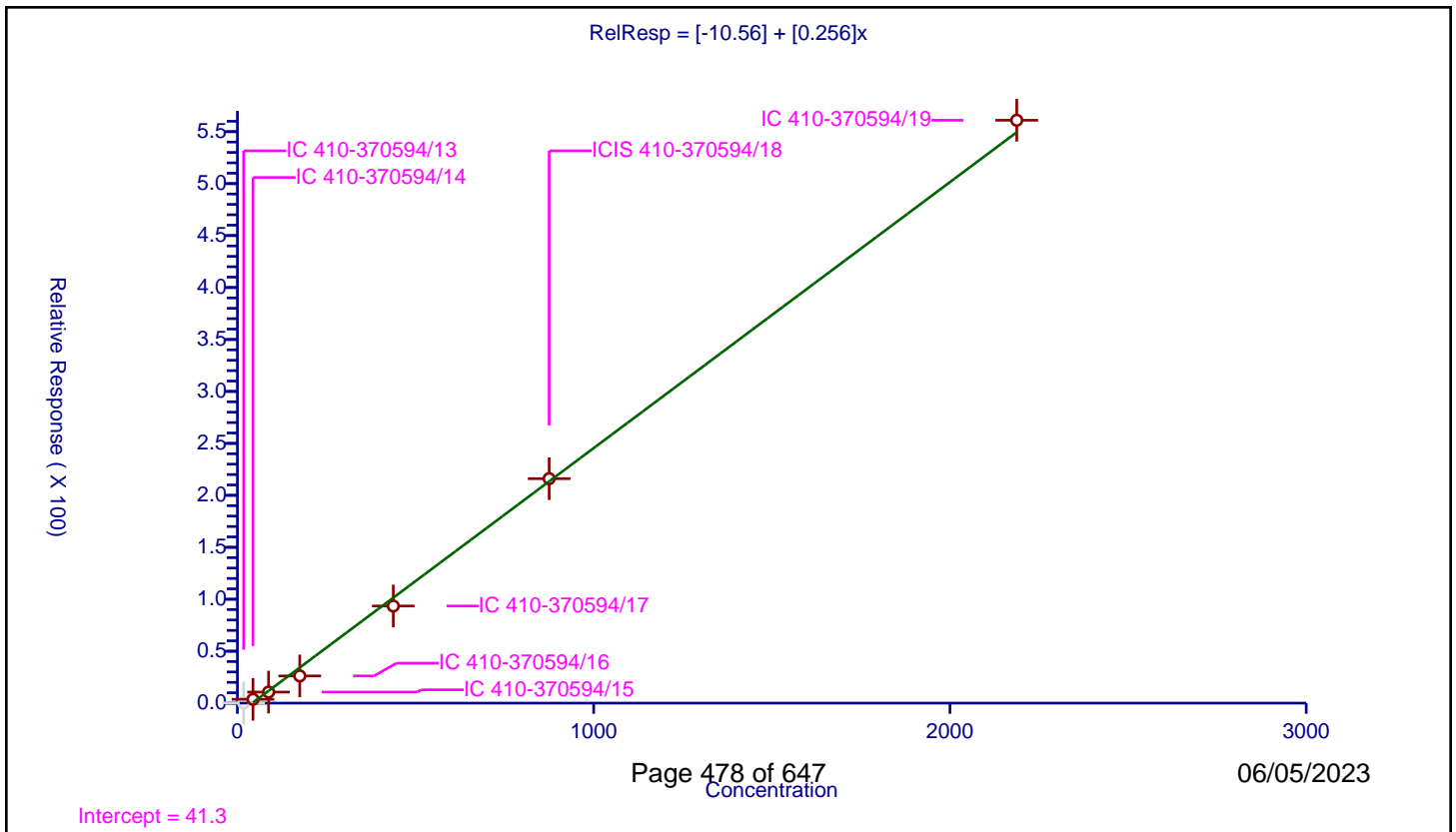
/ n-Butanol

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-10.56
Slope:	0.256

Error Coefficients	
Standard Error:	998000
Relative Standard Error:	16.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	17.5	0.243704	50.0	157568.0	0.013926	N
2	IC 410-370594/14	43.75	3.679213	50.0	155237.0	0.084096	Y
3	IC 410-370594/15	87.5	10.65568	50.0	157531.0	0.121779	Y
4	IC 410-370594/16	175.0	26.17301	50.0	155263.0	0.14956	Y
5	IC 410-370594/17	437.5	93.465918	50.0	154995.0	0.213636	Y
6	ICIS 410-370594/18	875.0	216.053871	50.0	158563.0	0.246919	Y
7	IC 410-370594/19	2187.5	560.985103	50.0	164937.0	0.25645	Y



Calibration

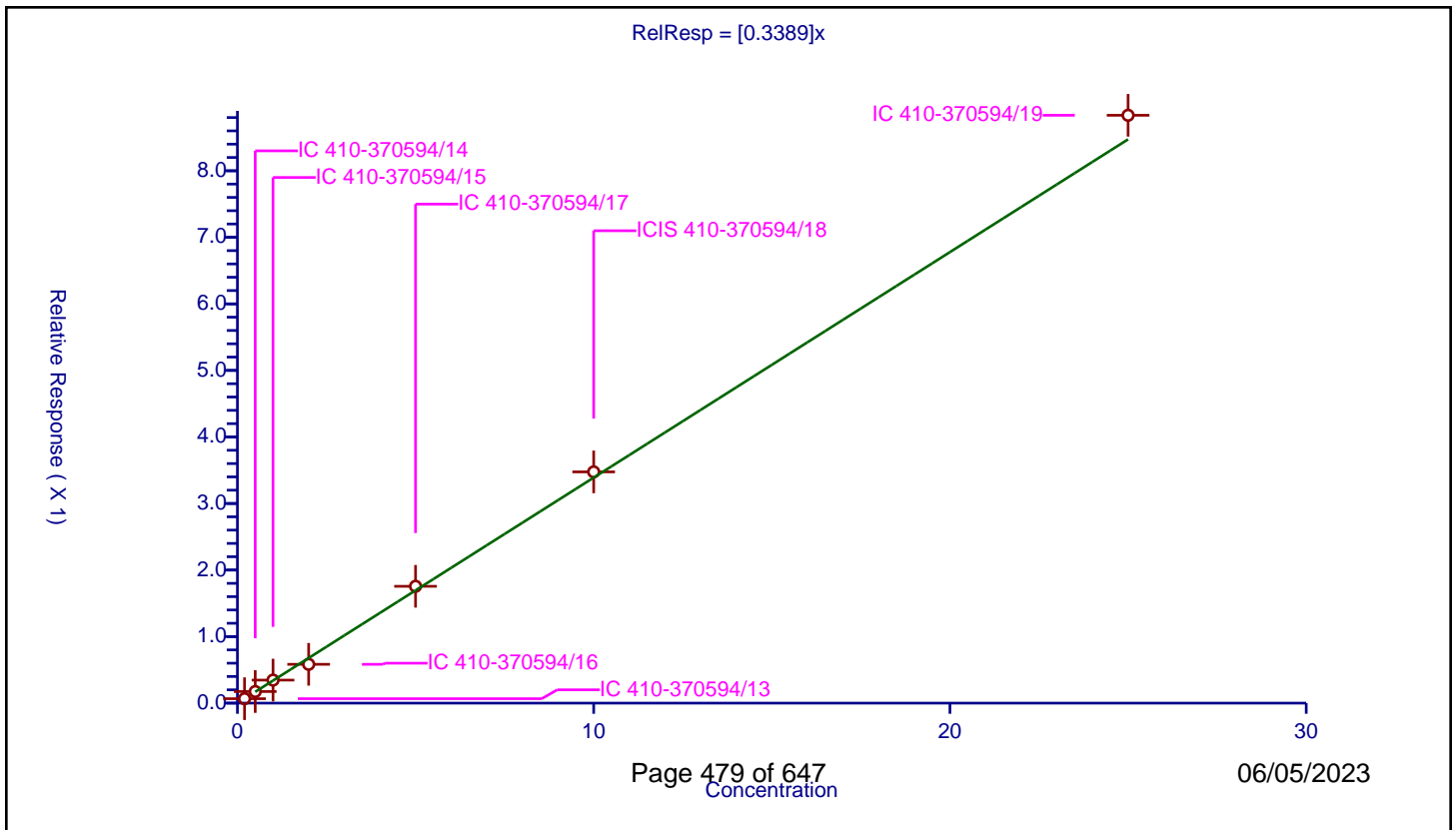
/ Trichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3389

Error Coefficients	
Standard Error:	795000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.066783	10.0	1960073.0	0.333916	Y
2	IC 410-370594/14	0.5	0.174408	10.0	1943779.0	0.348815	Y
3	IC 410-370594/15	1.0	0.345865	10.0	1958541.0	0.345865	Y
4	IC 410-370594/16	2.0	0.583283	10.0	1967571.0	0.291641	Y
5	IC 410-370594/17	5.0	1.755723	10.0	1980922.0	0.351145	Y
6	ICIS 410-370594/18	10.0	3.47512	10.0	1979051.0	0.347512	Y
7	IC 410-370594/19	25.0	8.833835	10.0	2018771.0	0.353353	Y



Calibration

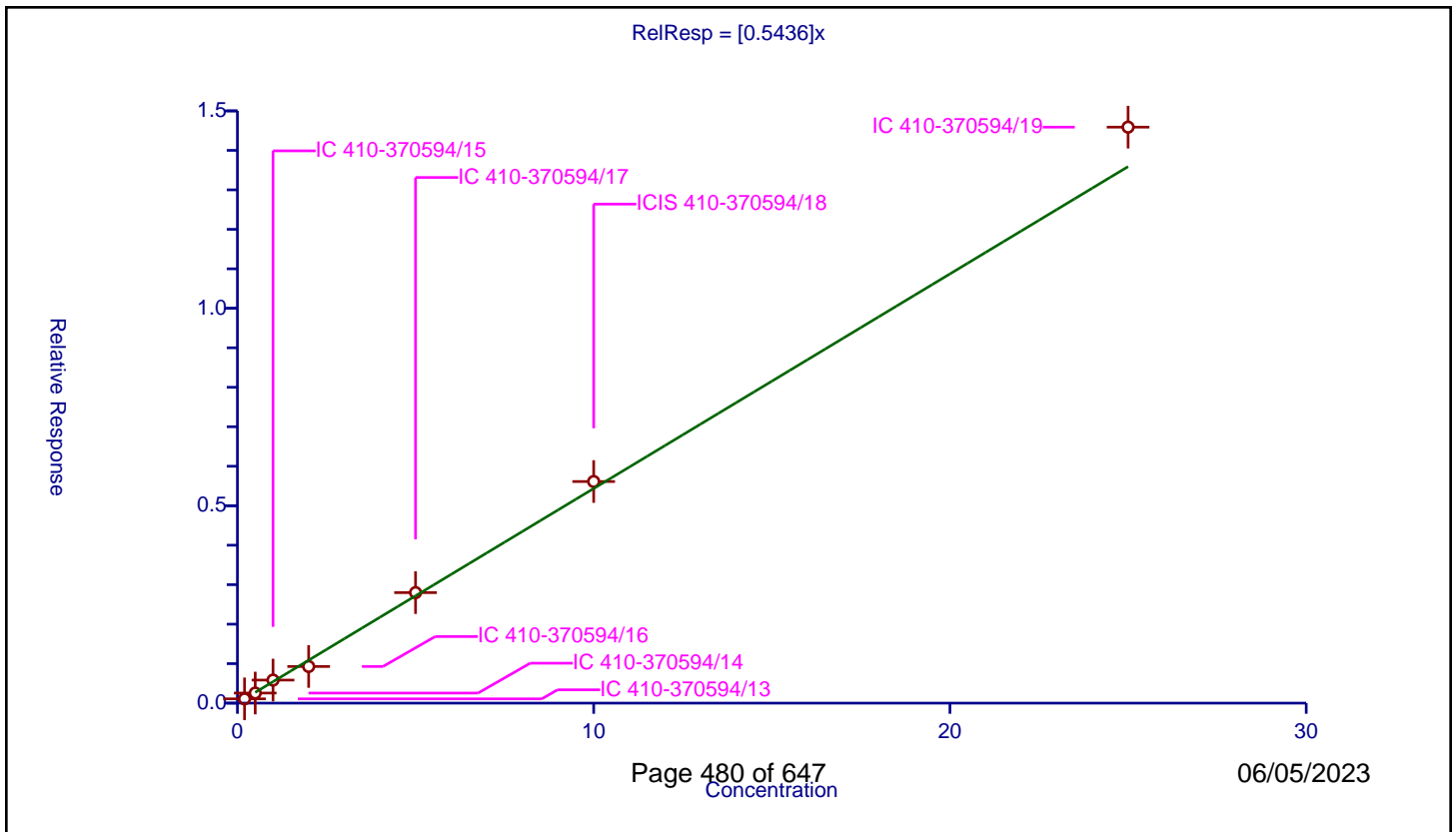
/ Methylcyclohexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5436

Error Coefficients	
Standard Error:	1310000
Relative Standard Error:	7.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.108394	10.0	1960073.0	0.54197	Y
2	IC 410-370594/14	0.5	0.255523	10.0	1943779.0	0.511046	Y
3	IC 410-370594/15	1.0	0.583516	10.0	1958541.0	0.583516	Y
4	IC 410-370594/16	2.0	0.927662	10.0	1967571.0	0.463831	Y
5	IC 410-370594/17	5.0	2.798813	10.0	1980922.0	0.559763	Y
6	ICIS 410-370594/18	10.0	5.612786	10.0	1979051.0	0.561279	Y
7	IC 410-370594/19	25.0	14.588579	10.0	2018771.0	0.583543	Y



Calibration

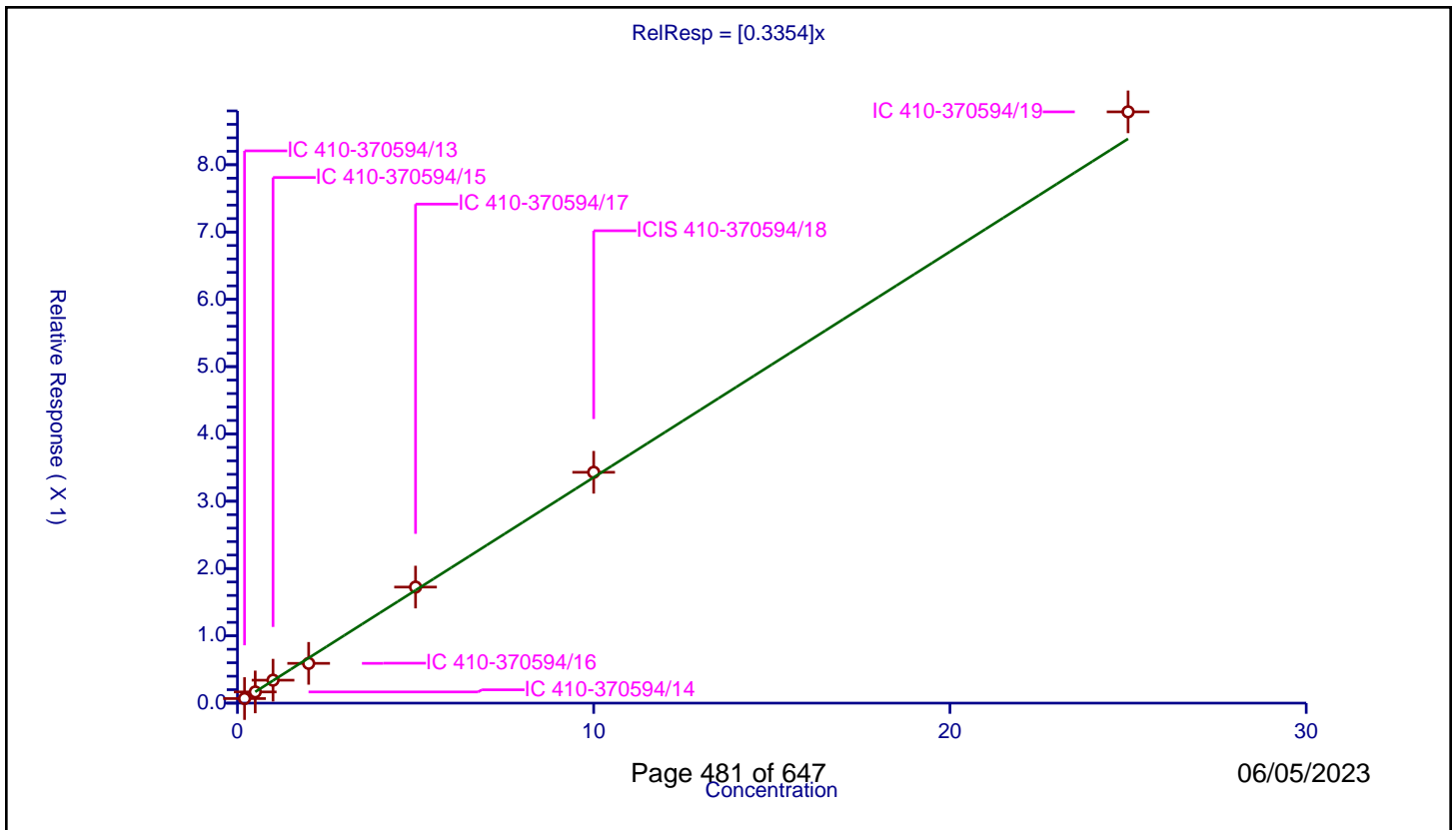
/ 1,2-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3354

Error Coefficients	
Standard Error:	790000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.067926	10.0	1960073.0	0.33963	Y
2	IC 410-370594/14	0.5	0.166346	10.0	1943779.0	0.332692	Y
3	IC 410-370594/15	1.0	0.340794	10.0	1958541.0	0.340794	Y
4	IC 410-370594/16	2.0	0.590845	10.0	1967571.0	0.295423	Y
5	IC 410-370594/17	5.0	1.724328	10.0	1980922.0	0.344866	Y
6	ICIS 410-370594/18	10.0	3.43026	10.0	1979051.0	0.343026	Y
7	IC 410-370594/19	25.0	8.785722	10.0	2018771.0	0.351429	Y



Calibration

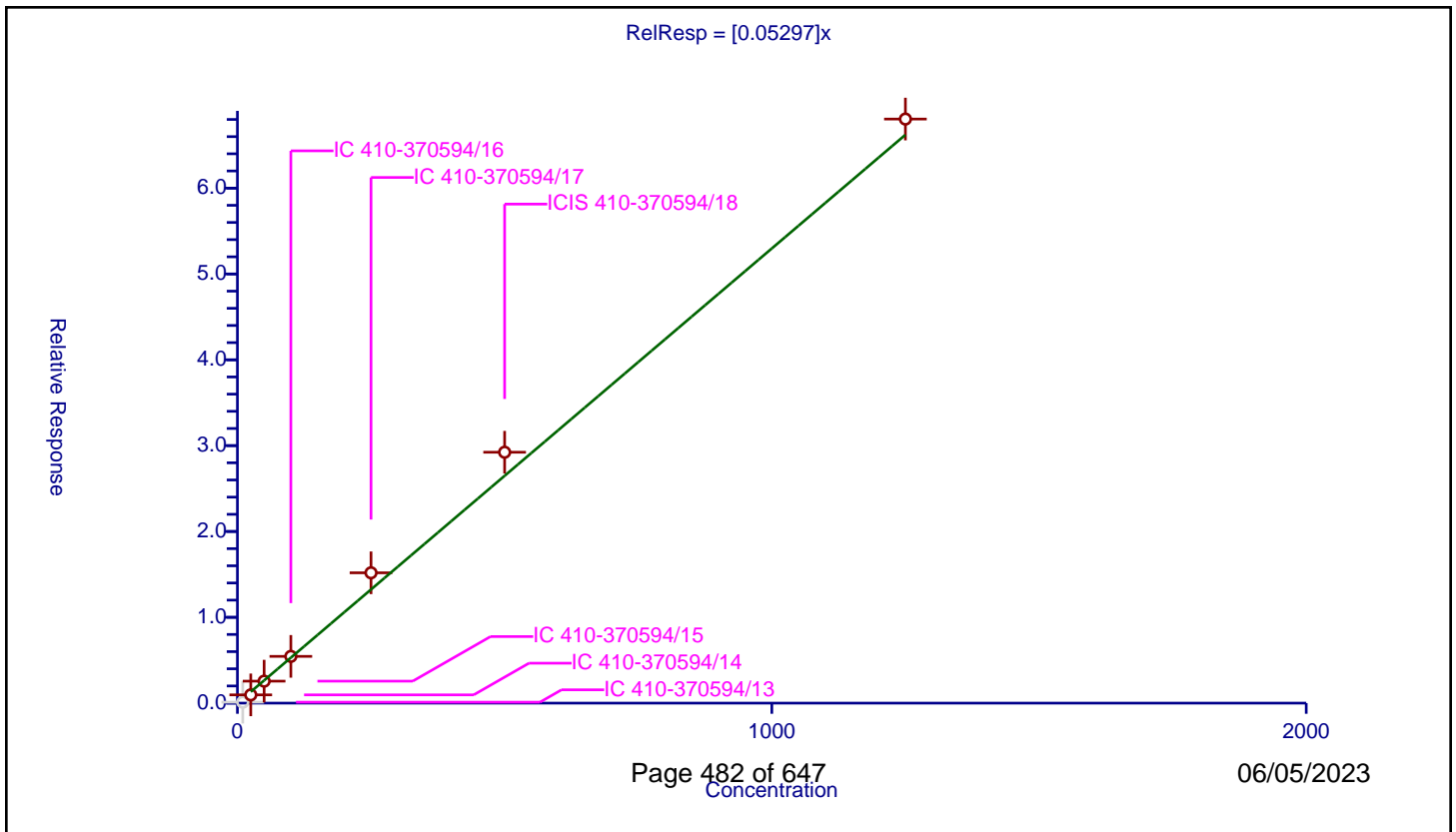
/ 1,4-Dioxane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.05297

Error Coefficients	
Standard Error:	111000
Relative Standard Error:	14.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	10.0	0.111063	50.0	157568.0	0.011106	N
2	IC 410-370594/14	25.0	0.962399	50.0	155237.0	0.038496	Y
3	IC 410-370594/15	50.0	2.561083	50.0	157531.0	0.051222	Y
4	IC 410-370594/16	100.0	5.447209	50.0	155263.0	0.054472	Y
5	IC 410-370594/17	250.0	15.185006	50.0	154995.0	0.06074	Y
6	ICIS 410-370594/18	500.0	29.231283	50.0	158563.0	0.058463	Y
7	IC 410-370594/19	1250.0	68.046891	50.0	164937.0	0.054438	Y



Calibration

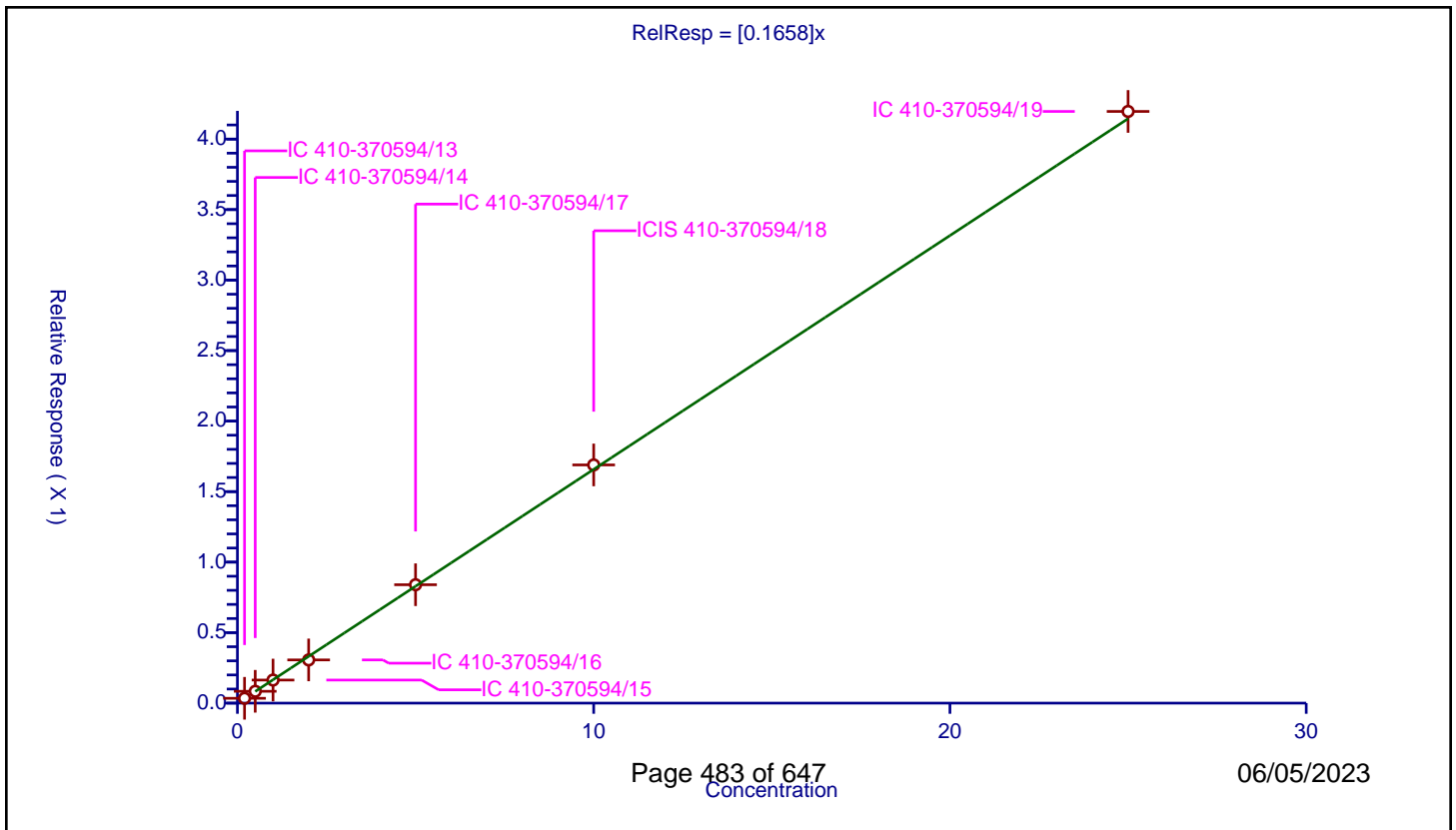
/ Dibromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1658

Error Coefficients	
Standard Error:	379000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.034193	10.0	1960073.0	0.170963	Y
2	IC 410-370594/14	0.5	0.084012	10.0	1943779.0	0.168023	Y
3	IC 410-370594/15	1.0	0.163571	10.0	1958541.0	0.163571	Y
4	IC 410-370594/16	2.0	0.306535	10.0	1967571.0	0.153268	Y
5	IC 410-370594/17	5.0	0.83974	10.0	1980922.0	0.167948	Y
6	ICIS 410-370594/18	10.0	1.689254	10.0	1979051.0	0.168925	Y
7	IC 410-370594/19	25.0	4.196003	10.0	2018771.0	0.16784	Y



Calibration

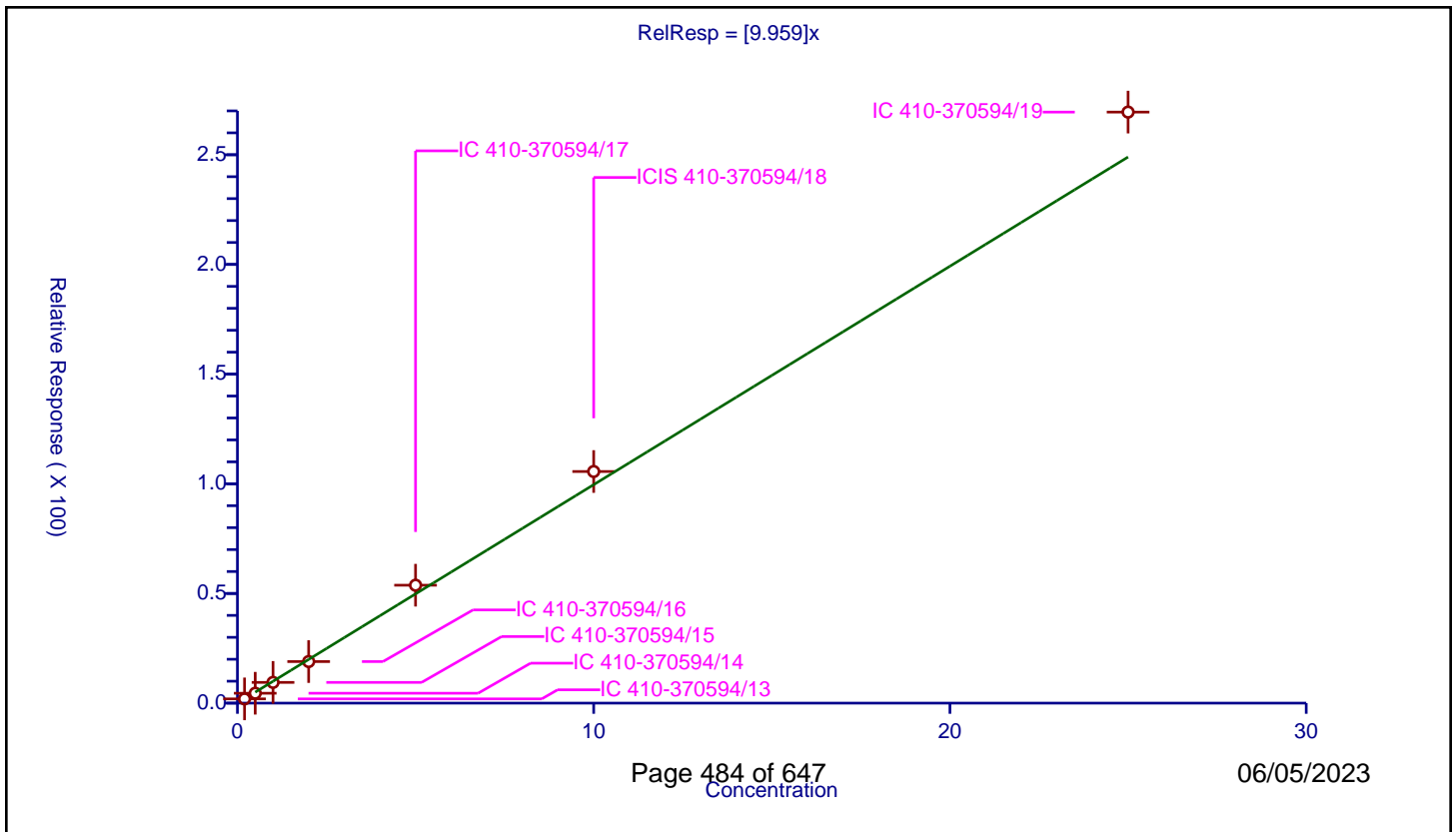
/ Methyl methacrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	9.959

Error Coefficients	
Standard Error:	395000
Relative Standard Error:	7.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	1.934086	50.0	157568.0	9.670428	Y
2	IC 410-370594/14	0.5	4.511489	50.0	155237.0	9.022978	Y
3	IC 410-370594/15	1.0	9.456551	50.0	157531.0	9.456551	Y
4	IC 410-370594/16	2.0	18.951714	50.0	155263.0	9.475857	Y
5	IC 410-370594/17	5.0	53.757863	50.0	154995.0	10.751573	Y
6	ICIS 410-370594/18	10.0	105.598721	50.0	158563.0	10.559872	Y
7	IC 410-370594/19	25.0	269.448335	50.0	164937.0	10.777933	Y



Calibration

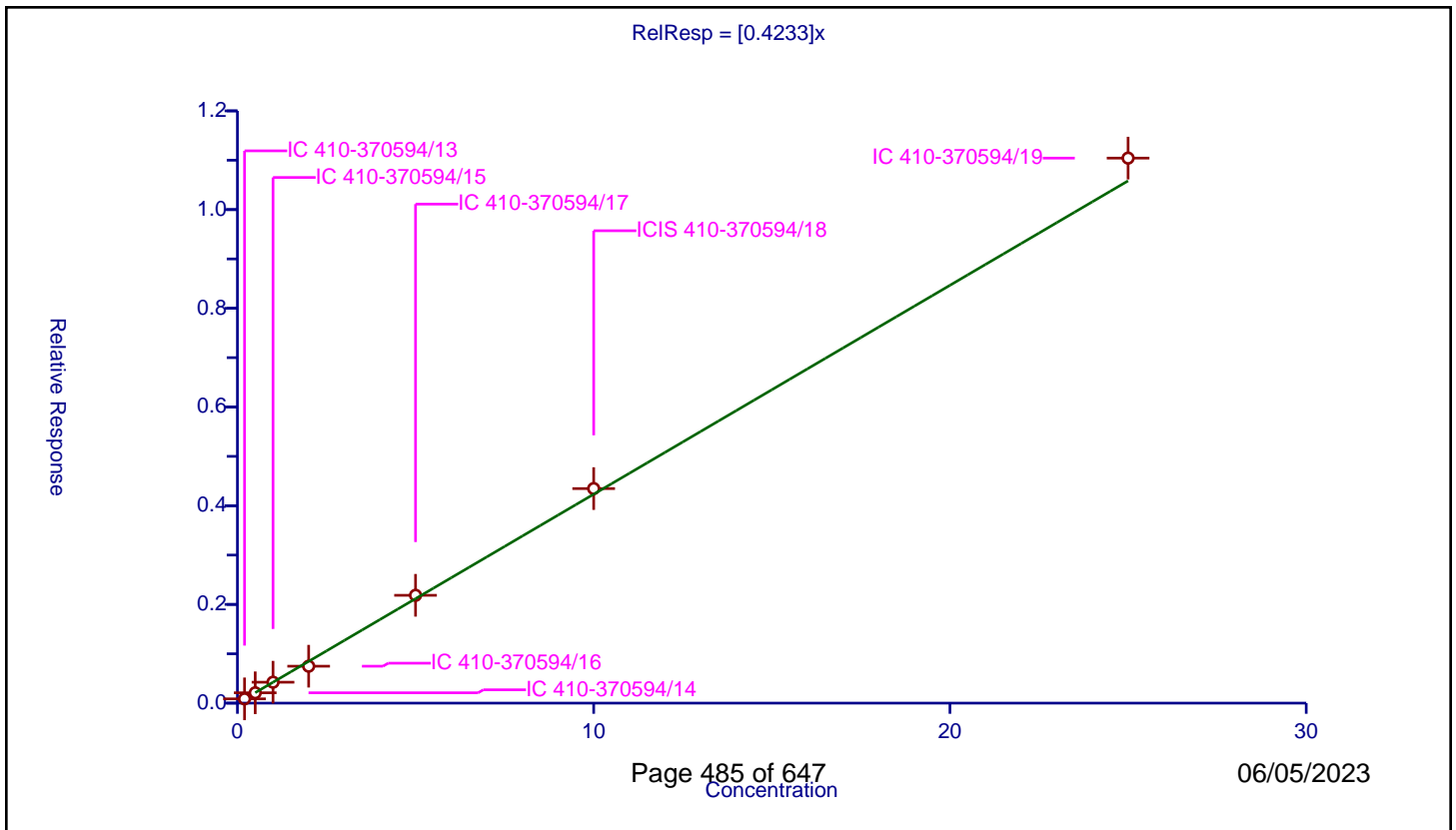
/ Dichlorobromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4233

Error Coefficients	
Standard Error:	994000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.086512	10.0	1960073.0	0.43256	Y
2	IC 410-370594/14	0.5	0.209556	10.0	1943779.0	0.419111	Y
3	IC 410-370594/15	1.0	0.423821	10.0	1958541.0	0.423821	Y
4	IC 410-370594/16	2.0	0.74841	10.0	1967571.0	0.374205	Y
5	IC 410-370594/17	5.0	2.184831	10.0	1980922.0	0.436966	Y
6	ICIS 410-370594/18	10.0	4.347073	10.0	1979051.0	0.434707	Y
7	IC 410-370594/19	25.0	11.043194	10.0	2018771.0	0.441728	Y



Calibration

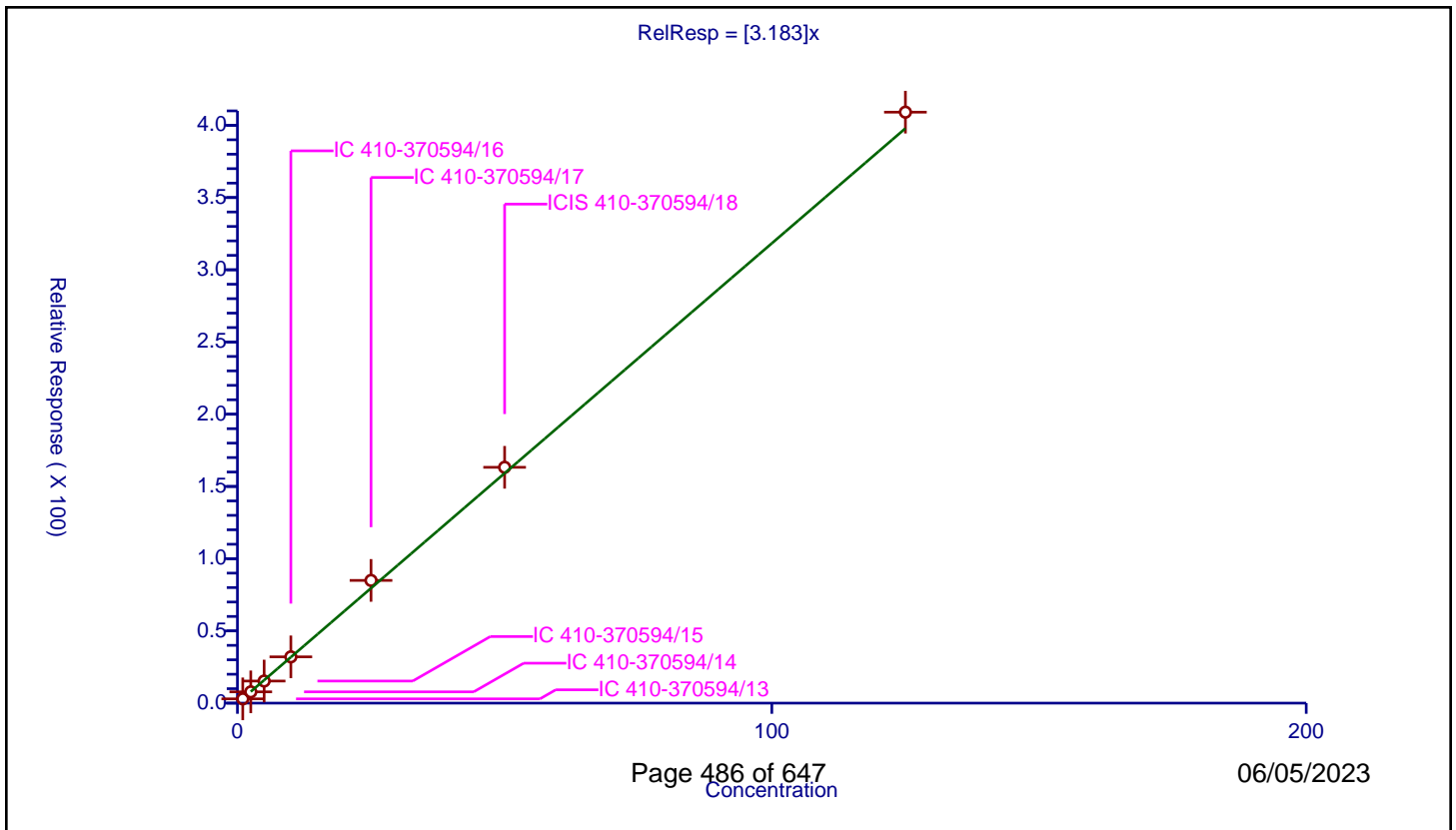
/ 2-Nitropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.183

Error Coefficients	
Standard Error:	601000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	1.0	2.959675	50.0	157568.0	2.959675	Y
2	IC 410-370594/14	2.5	7.807095	50.0	155237.0	3.122838	Y
3	IC 410-370594/15	5.0	15.303337	50.0	157531.0	3.060667	Y
4	IC 410-370594/16	10.0	32.027592	50.0	155263.0	3.202759	Y
5	IC 410-370594/17	25.0	84.944998	50.0	154995.0	3.3978	Y
6	ICIS 410-370594/18	50.0	163.258452	50.0	158563.0	3.265169	Y
7	IC 410-370594/19	125.0	409.120755	50.0	164937.0	3.272966	Y



Calibration

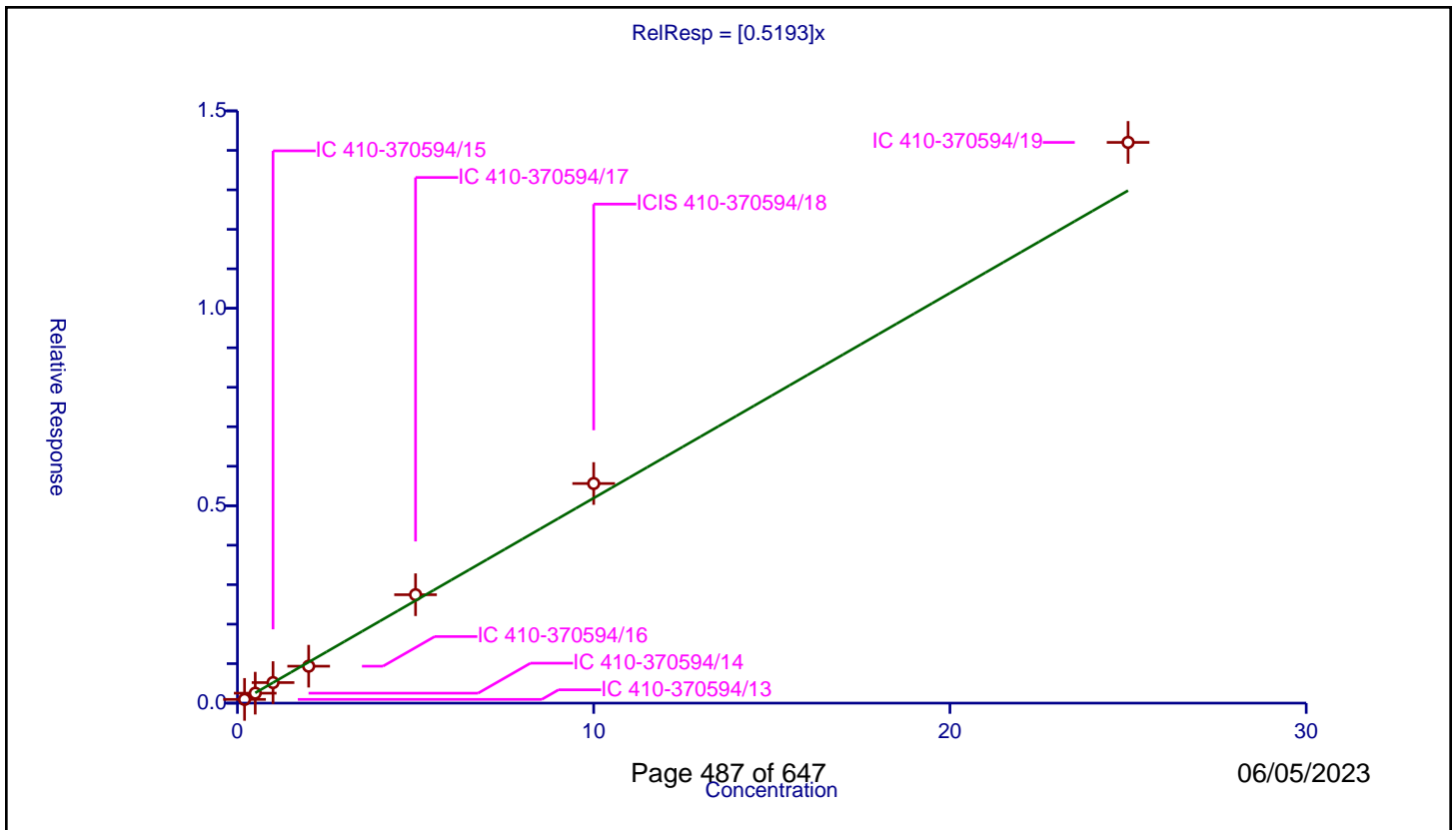
/ cis-1,3-Dichloropropene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5193

Error Coefficients	
Standard Error:	1280000
Relative Standard Error:	7.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.09393	10.0	1960073.0	0.469651	Y
2	IC 410-370594/14	0.5	0.252133	10.0	1943779.0	0.504265	Y
3	IC 410-370594/15	1.0	0.520229	10.0	1958541.0	0.520229	Y
4	IC 410-370594/16	2.0	0.935133	10.0	1967571.0	0.467566	Y
5	IC 410-370594/17	5.0	2.745671	10.0	1980922.0	0.549134	Y
6	ICIS 410-370594/18	10.0	5.562302	10.0	1979051.0	0.55623	Y
7	IC 410-370594/19	25.0	14.201948	10.0	2018771.0	0.568078	Y



Calibration

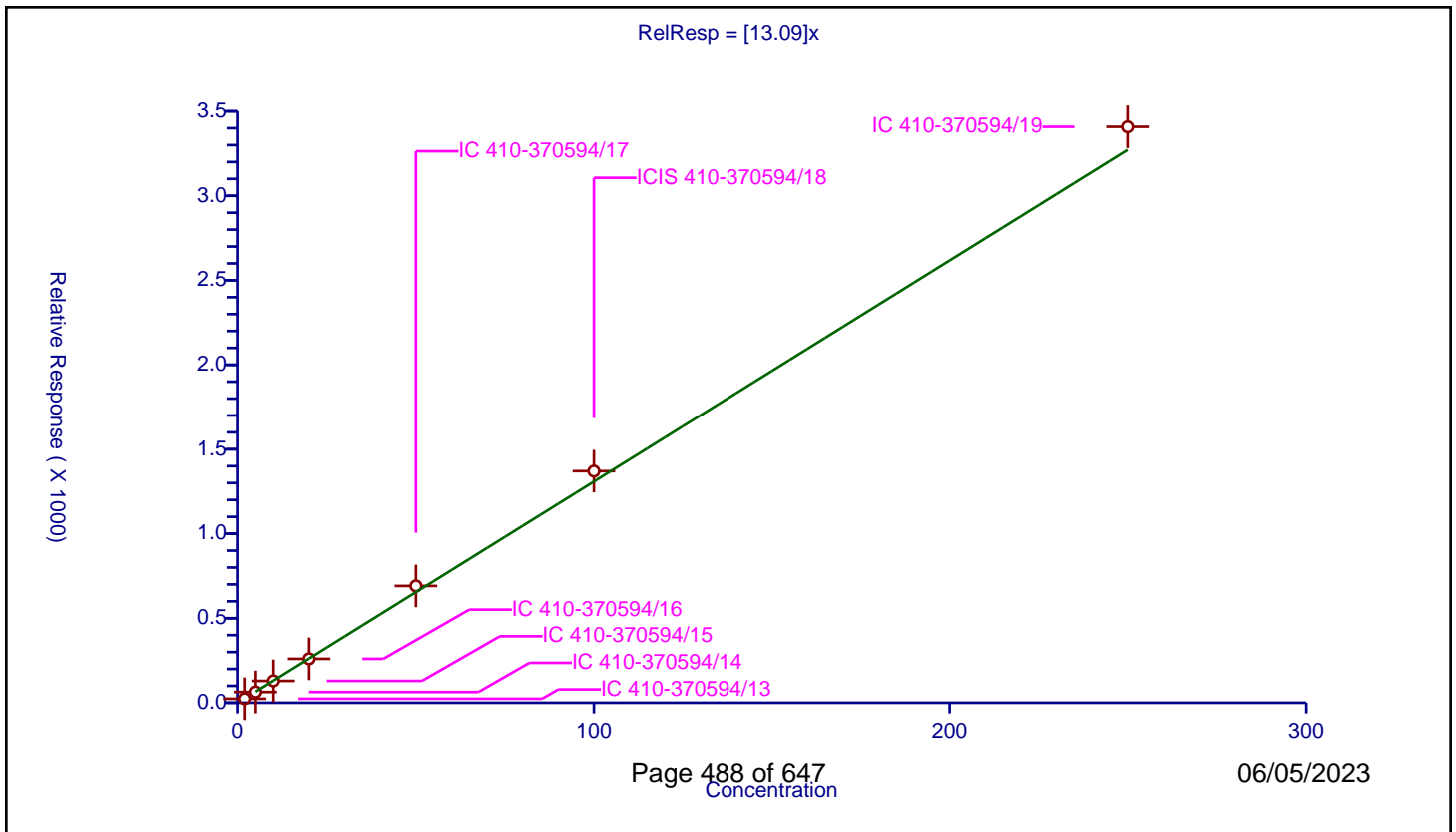
/ 4-Methyl-2-pentanone (MIBK)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	13.09

Error Coefficients	
Standard Error:	5010000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	2.0	23.619326	50.0	157568.0	11.809663	Y
2	IC 410-370594/14	5.0	63.587611	50.0	155237.0	12.717522	Y
3	IC 410-370594/15	10.0	129.36057	50.0	157531.0	12.936057	Y
4	IC 410-370594/16	20.0	259.728332	50.0	155263.0	12.986417	Y
5	IC 410-370594/17	50.0	690.990677	50.0	154995.0	13.819814	Y
6	ICIS 410-370594/18	100.0	1370.592131	50.0	158563.0	13.705921	Y
7	IC 410-370594/19	250.0	3408.349552	50.0	164937.0	13.633398	Y



Calibration

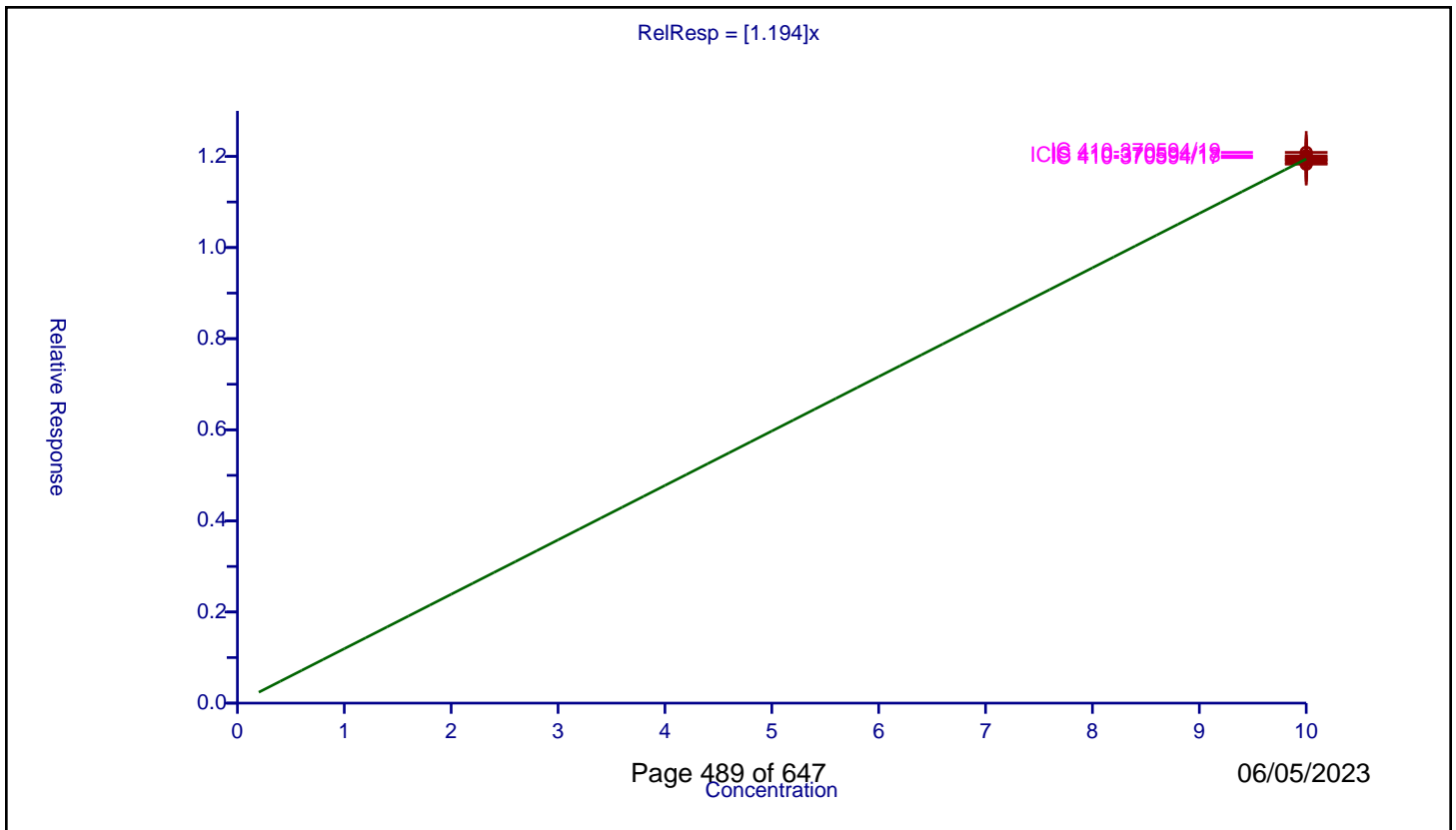
/ Toluene-d8 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.194

Error Coefficients	
Standard Error:	2390000
Relative Standard Error:	0.8
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	10.0	11.830522	10.0	1838678.0	1.183052	Y
2	IC 410-370594/14	10.0	11.911675	10.0	1823359.0	1.191168	Y
3	IC 410-370594/15	10.0	11.856422	10.0	1852391.0	1.185642	Y
4	IC 410-370594/16	10.0	11.930786	10.0	1834206.0	1.193079	Y
5	IC 410-370594/17	10.0	11.974576	10.0	1855538.0	1.197458	Y
6	ICIS 410-370594/18	10.0	12.014398	10.0	1853075.0	1.20144	Y
7	IC 410-370594/19	10.0	12.08937	10.0	1882414.0	1.208937	Y



Calibration

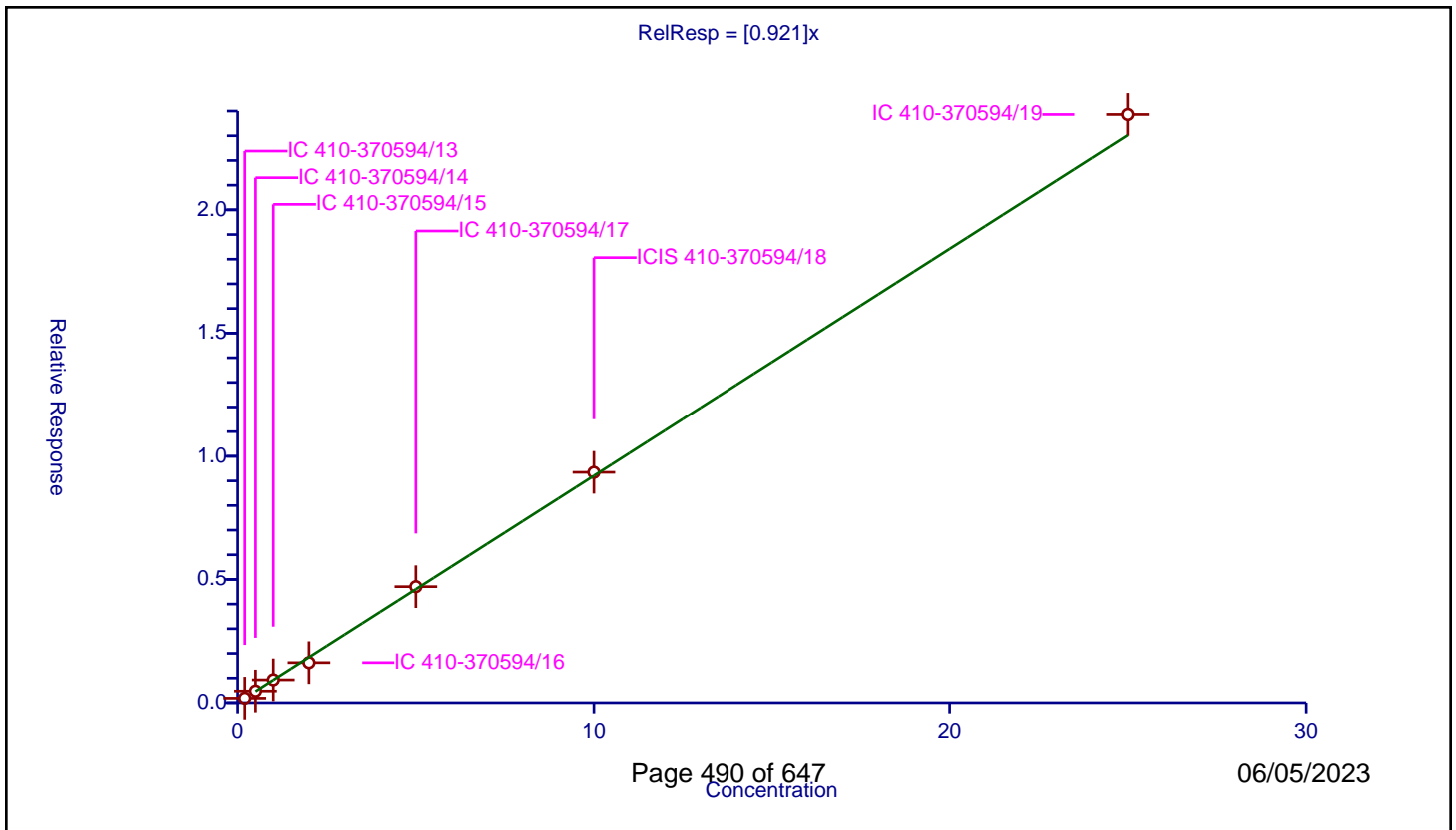
/ Toluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.921

Error Coefficients	
Standard Error:	2000000
Relative Standard Error:	5.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.185443	10.0	1838678.0	0.927215	Y
2	IC 410-370594/14	0.5	0.474333	10.0	1823359.0	0.948667	Y
3	IC 410-370594/15	1.0	0.927634	10.0	1852391.0	0.927634	Y
4	IC 410-370594/16	2.0	1.62521	10.0	1834206.0	0.812605	Y
5	IC 410-370594/17	5.0	4.707594	10.0	1855538.0	0.941519	Y
6	ICIS 410-370594/18	10.0	9.348035	10.0	1853075.0	0.934804	Y
7	IC 410-370594/19	25.0	23.86168	10.0	1882414.0	0.954467	Y



Calibration

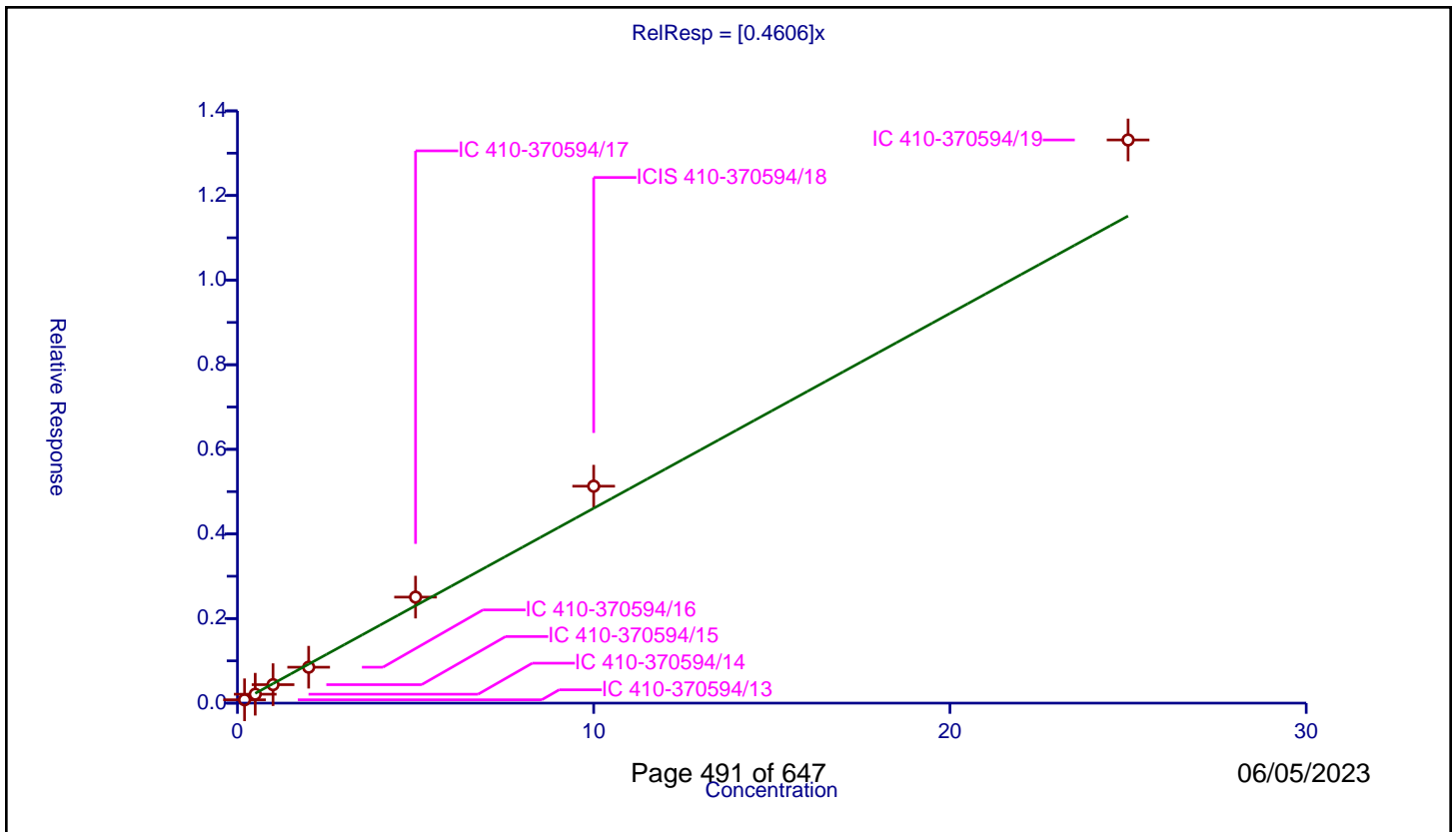
/ trans-1,3-Dichloropropene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4606

Error Coefficients	
Standard Error:	1110000
Relative Standard Error:	11.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.079111	10.0	1838678.0	0.395556	Y
2	IC 410-370594/14	0.5	0.210606	10.0	1823359.0	0.421212	Y
3	IC 410-370594/15	1.0	0.436636	10.0	1852391.0	0.436636	Y
4	IC 410-370594/16	2.0	0.848694	10.0	1834206.0	0.424347	Y
5	IC 410-370594/17	5.0	2.505861	10.0	1855538.0	0.501172	Y
6	ICIS 410-370594/18	10.0	5.128605	10.0	1853075.0	0.512861	Y
7	IC 410-370594/19	25.0	13.312858	10.0	1882414.0	0.532514	Y



Calibration

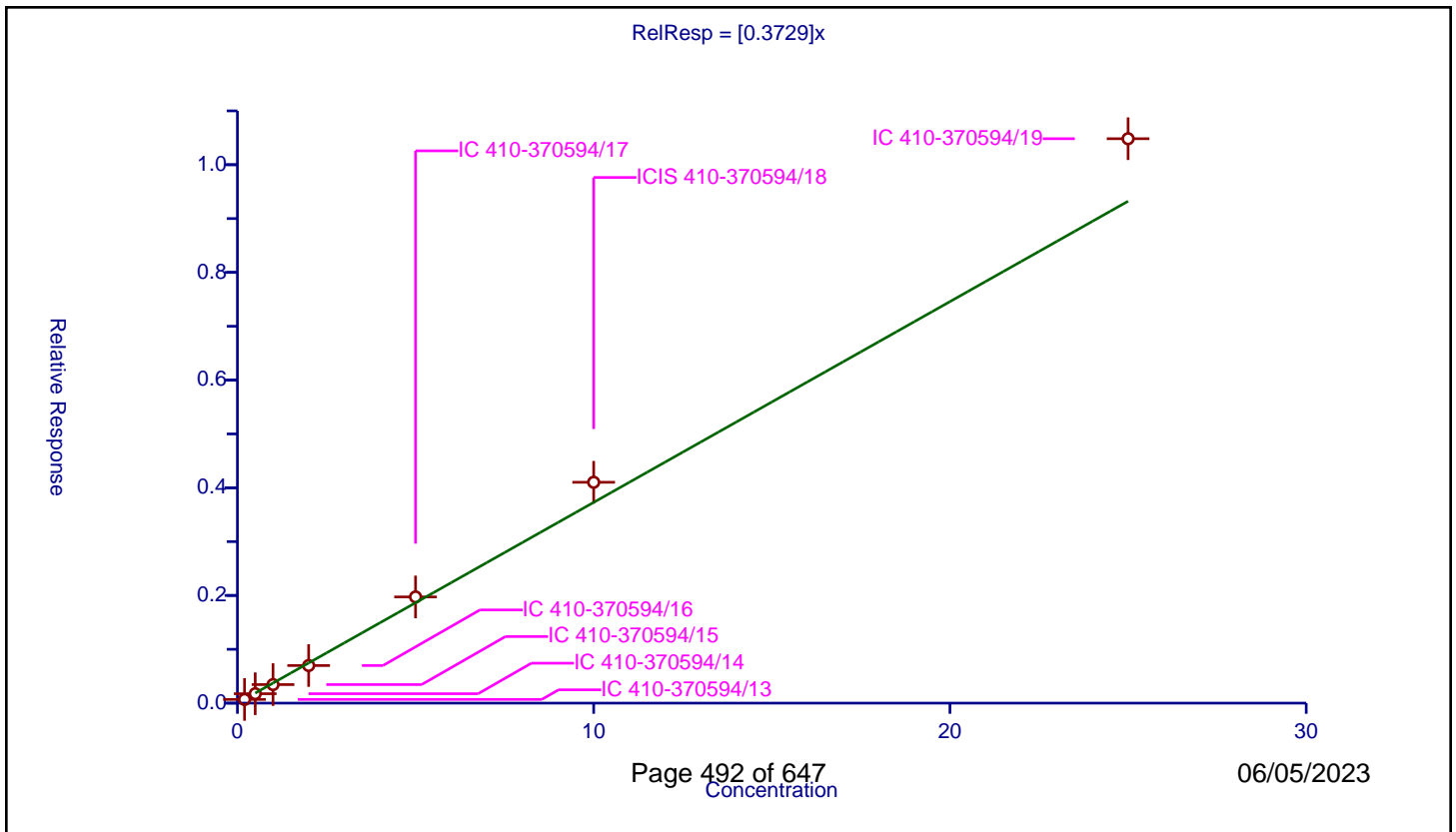
/ Ethyl methacrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3729

Error Coefficients	
Standard Error:	878000
Relative Standard Error:	9.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.068446	10.0	1838678.0	0.34223	Y
2	IC 410-370594/14	0.5	0.175105	10.0	1823359.0	0.350211	Y
3	IC 410-370594/15	1.0	0.344387	10.0	1852391.0	0.344387	Y
4	IC 410-370594/16	2.0	0.698384	10.0	1834206.0	0.349192	Y
5	IC 410-370594/17	5.0	1.97277	10.0	1855538.0	0.394554	Y
6	ICIS 410-370594/18	10.0	4.102343	10.0	1853075.0	0.410234	Y
7	IC 410-370594/19	25.0	10.483135	10.0	1882414.0	0.419325	Y



Calibration

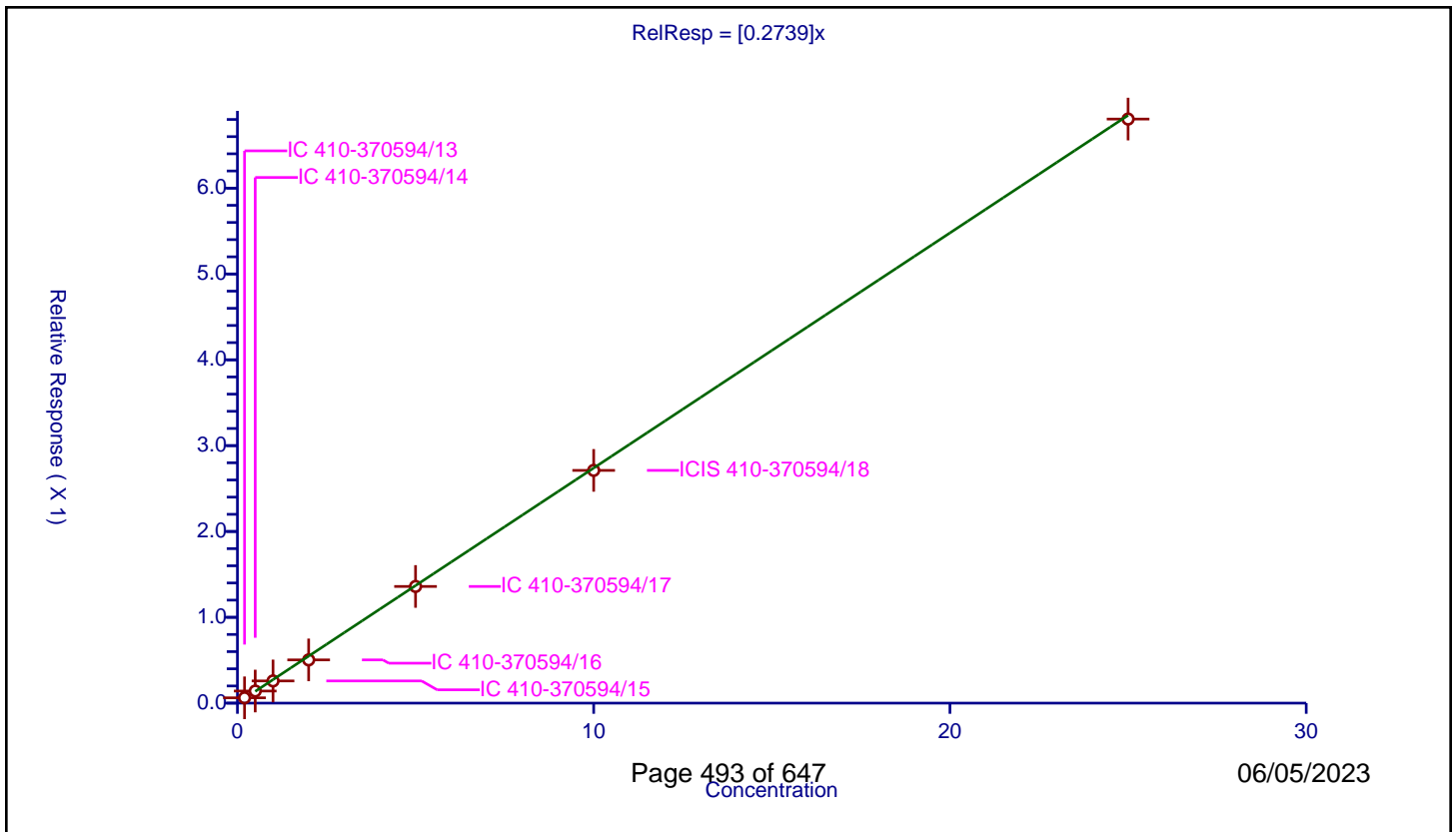
/ 1,1,2-Trichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2739

Error Coefficients	
Standard Error:	573000
Relative Standard Error:	6.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.06199	10.0	1838678.0	0.309951	Y
2	IC 410-370594/14	0.5	0.140877	10.0	1823359.0	0.281755	Y
3	IC 410-370594/15	1.0	0.258596	10.0	1852391.0	0.258596	Y
4	IC 410-370594/16	2.0	0.503842	10.0	1834206.0	0.251921	Y
5	IC 410-370594/17	5.0	1.359363	10.0	1855538.0	0.271873	Y
6	ICIS 410-370594/18	10.0	2.711412	10.0	1853075.0	0.271141	Y
7	IC 410-370594/19	25.0	6.804656	10.0	1882414.0	0.272186	Y



Calibration

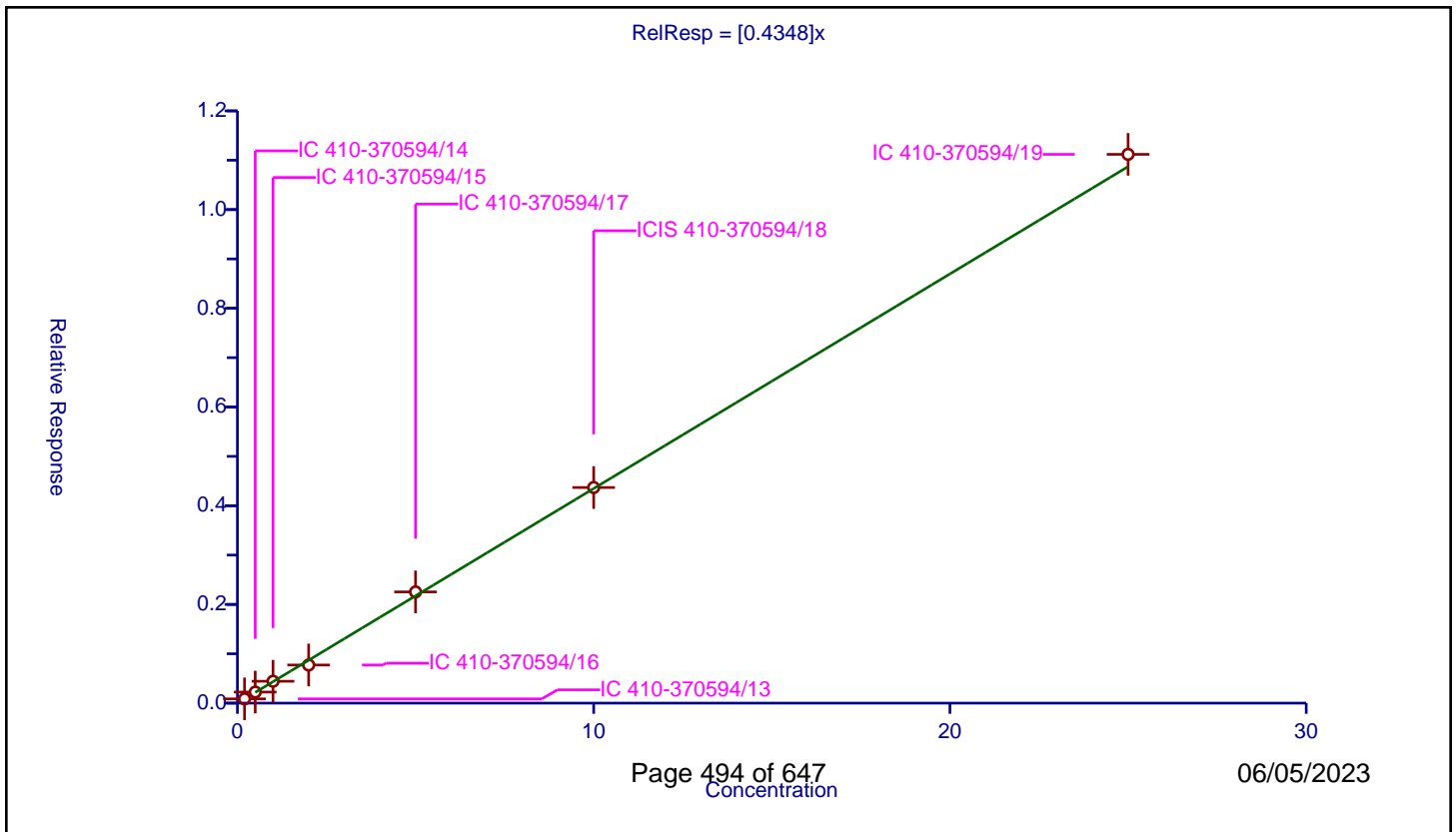
/ Tetrachloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4348

Error Coefficients	
Standard Error:	935000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.08666	10.0	1838678.0	0.4333	Y
2	IC 410-370594/14	0.5	0.224306	10.0	1823359.0	0.448612	Y
3	IC 410-370594/15	1.0	0.443276	10.0	1852391.0	0.443276	Y
4	IC 410-370594/16	2.0	0.772629	10.0	1834206.0	0.386314	Y
5	IC 410-370594/17	5.0	2.253648	10.0	1855538.0	0.45073	Y
6	ICIS 410-370594/18	10.0	4.368593	10.0	1853075.0	0.436859	Y
7	IC 410-370594/19	25.0	11.119238	10.0	1882414.0	0.44477	Y



Calibration

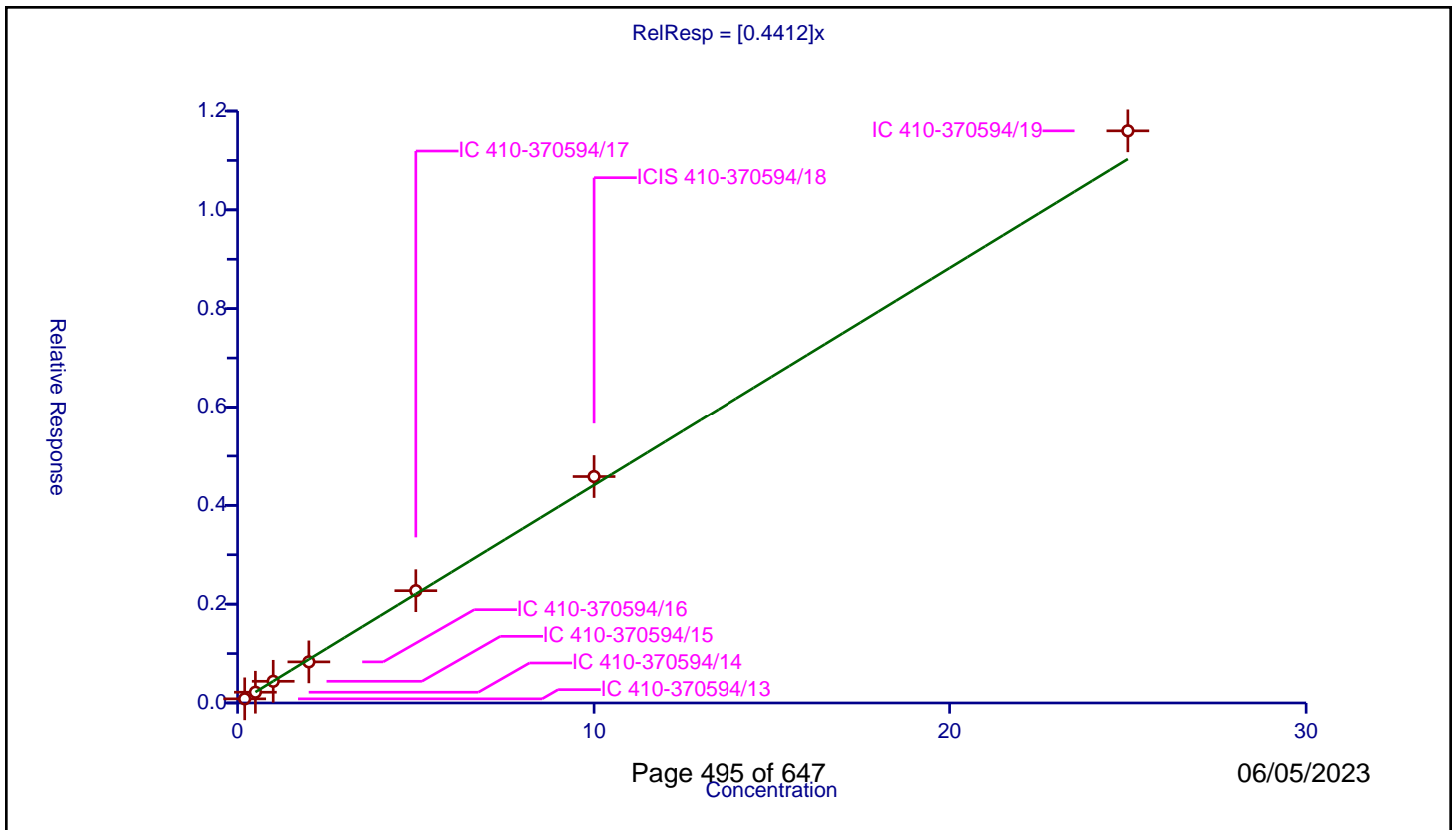
/ 1,3-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4412

Error Coefficients	
Standard Error:	975000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.084071	10.0	1838678.0	0.420356	Y
2	IC 410-370594/14	0.5	0.217829	10.0	1823359.0	0.435657	Y
3	IC 410-370594/15	1.0	0.43927	10.0	1852391.0	0.43927	Y
4	IC 410-370594/16	2.0	0.831913	10.0	1834206.0	0.415957	Y
5	IC 410-370594/17	5.0	2.272926	10.0	1855538.0	0.454585	Y
6	ICIS 410-370594/18	10.0	4.582853	10.0	1853075.0	0.458285	Y
7	IC 410-370594/19	25.0	11.599	10.0	1882414.0	0.46396	Y



Calibration

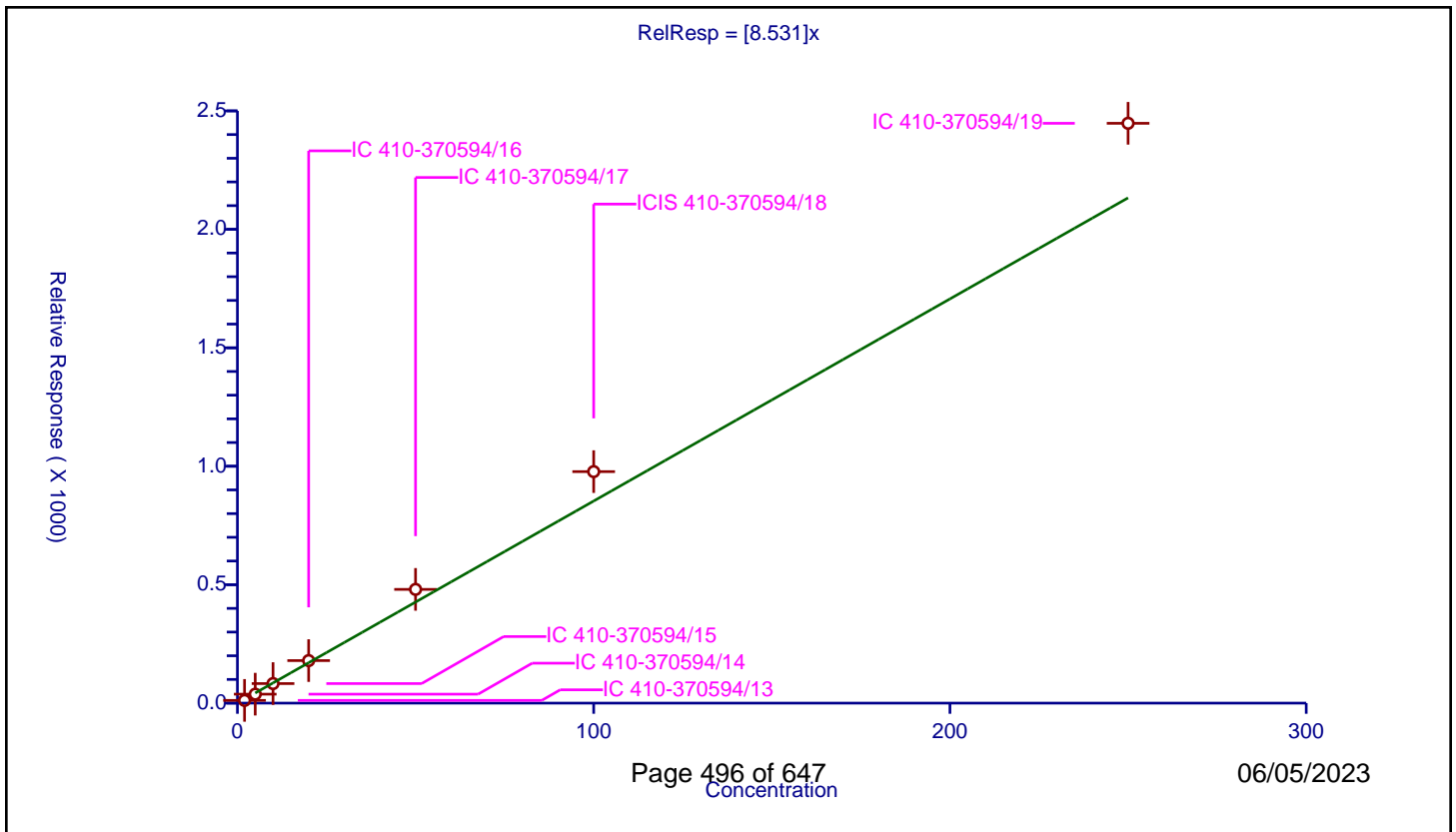
/ 2-Hexanone

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	8.531

Error Coefficients	
Standard Error:	3590000
Relative Standard Error:	17.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.967

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	2.0	11.500432	50.0	157568.0	5.750216	Y
2	IC 410-370594/14	5.0	37.824745	50.0	155237.0	7.564949	Y
3	IC 410-370594/15	10.0	82.605646	50.0	157531.0	8.260565	Y
4	IC 410-370594/16	20.0	179.573691	50.0	155263.0	8.978685	Y
5	IC 410-370594/17	50.0	480.113875	50.0	154995.0	9.602277	Y
6	ICIS 410-370594/18	100.0	977.299559	50.0	158563.0	9.772996	Y
7	IC 410-370594/19	250.0	2447.654862	50.0	164937.0	9.790619	Y



Calibration

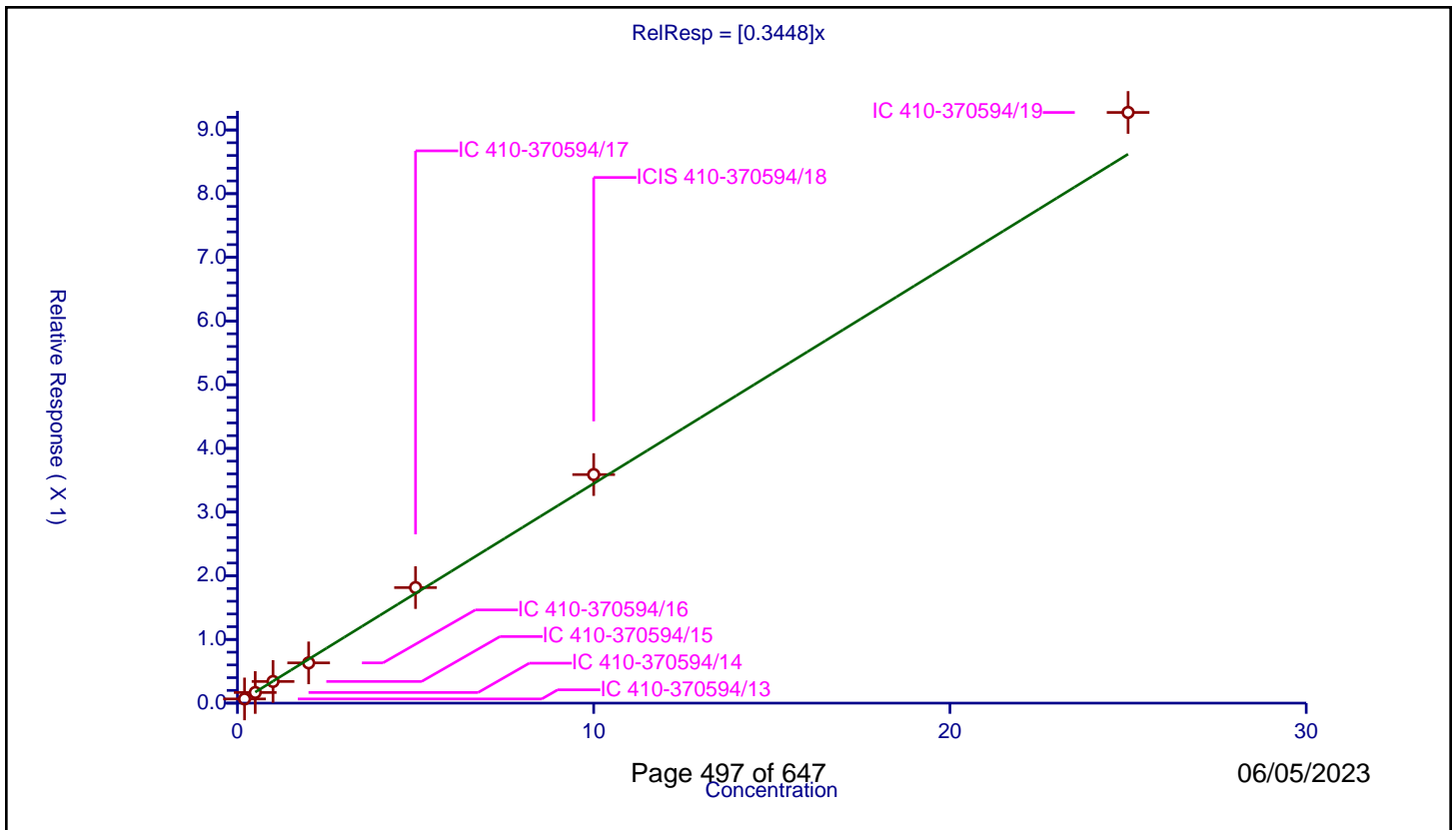
/ Chlorodibromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3448

Error Coefficients	
Standard Error:	777000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.065977	10.0	1838678.0	0.329884	Y
2	IC 410-370594/14	0.5	0.167274	10.0	1823359.0	0.334547	Y
3	IC 410-370594/15	1.0	0.34036	10.0	1852391.0	0.34036	Y
4	IC 410-370594/16	2.0	0.632246	10.0	1834206.0	0.316123	Y
5	IC 410-370594/17	5.0	1.814697	10.0	1855538.0	0.362939	Y
6	ICIS 410-370594/18	10.0	3.58904	10.0	1853075.0	0.358904	Y
7	IC 410-370594/19	25.0	9.275266	10.0	1882414.0	0.371011	Y



Calibration

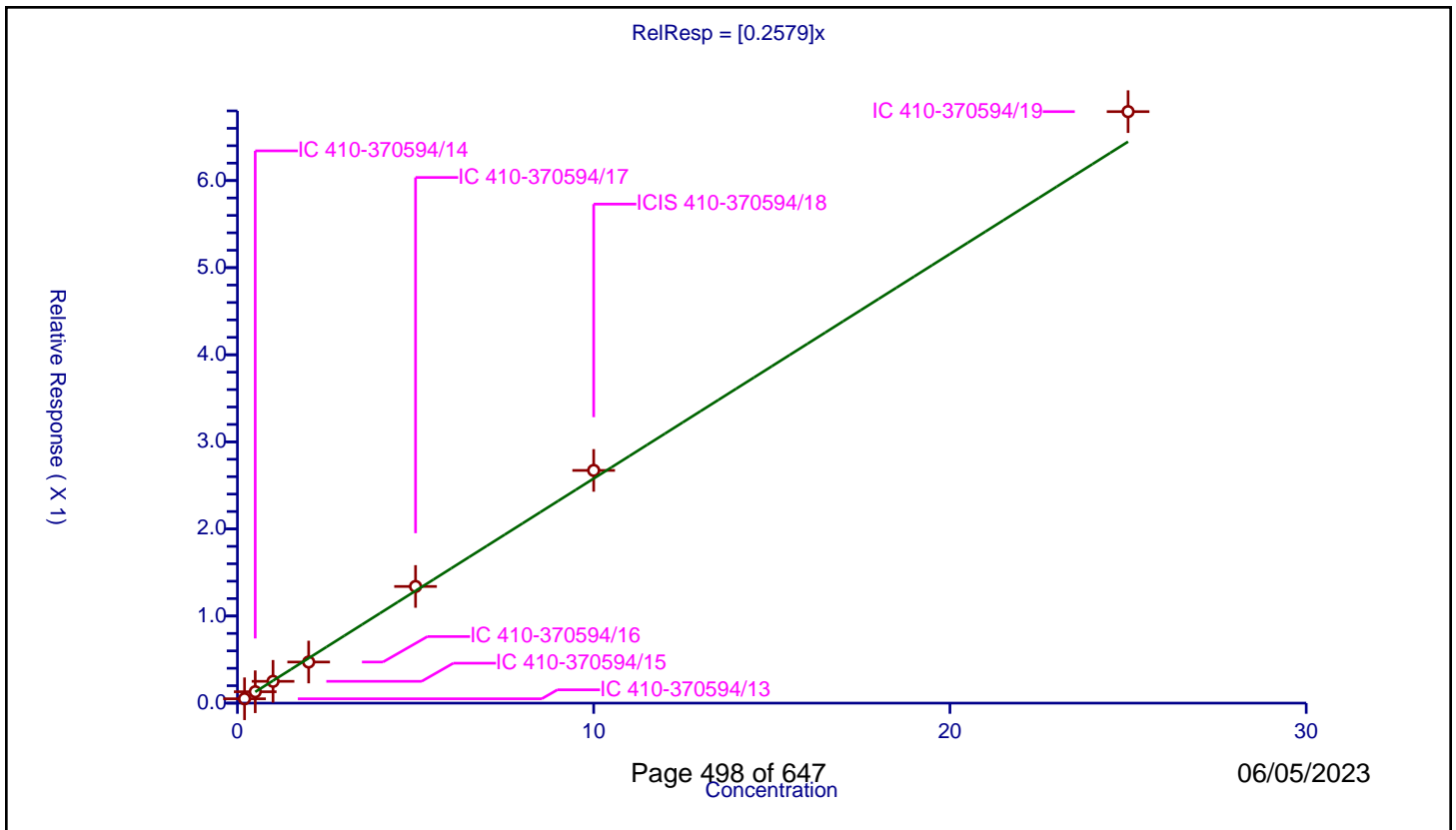
/ Ethylene Dibromide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2579

Error Coefficients	
Standard Error:	570000
Relative Standard Error:	5.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.050118	10.0	1838678.0	0.250588	Y
2	IC 410-370594/14	0.5	0.130753	10.0	1823359.0	0.261506	Y
3	IC 410-370594/15	1.0	0.250196	10.0	1852391.0	0.250196	Y
4	IC 410-370594/16	2.0	0.472035	10.0	1834206.0	0.236018	Y
5	IC 410-370594/17	5.0	1.339509	10.0	1855538.0	0.267902	Y
6	ICIS 410-370594/18	10.0	2.671808	10.0	1853075.0	0.267181	Y
7	IC 410-370594/19	25.0	6.791577	10.0	1882414.0	0.271663	Y



Calibration

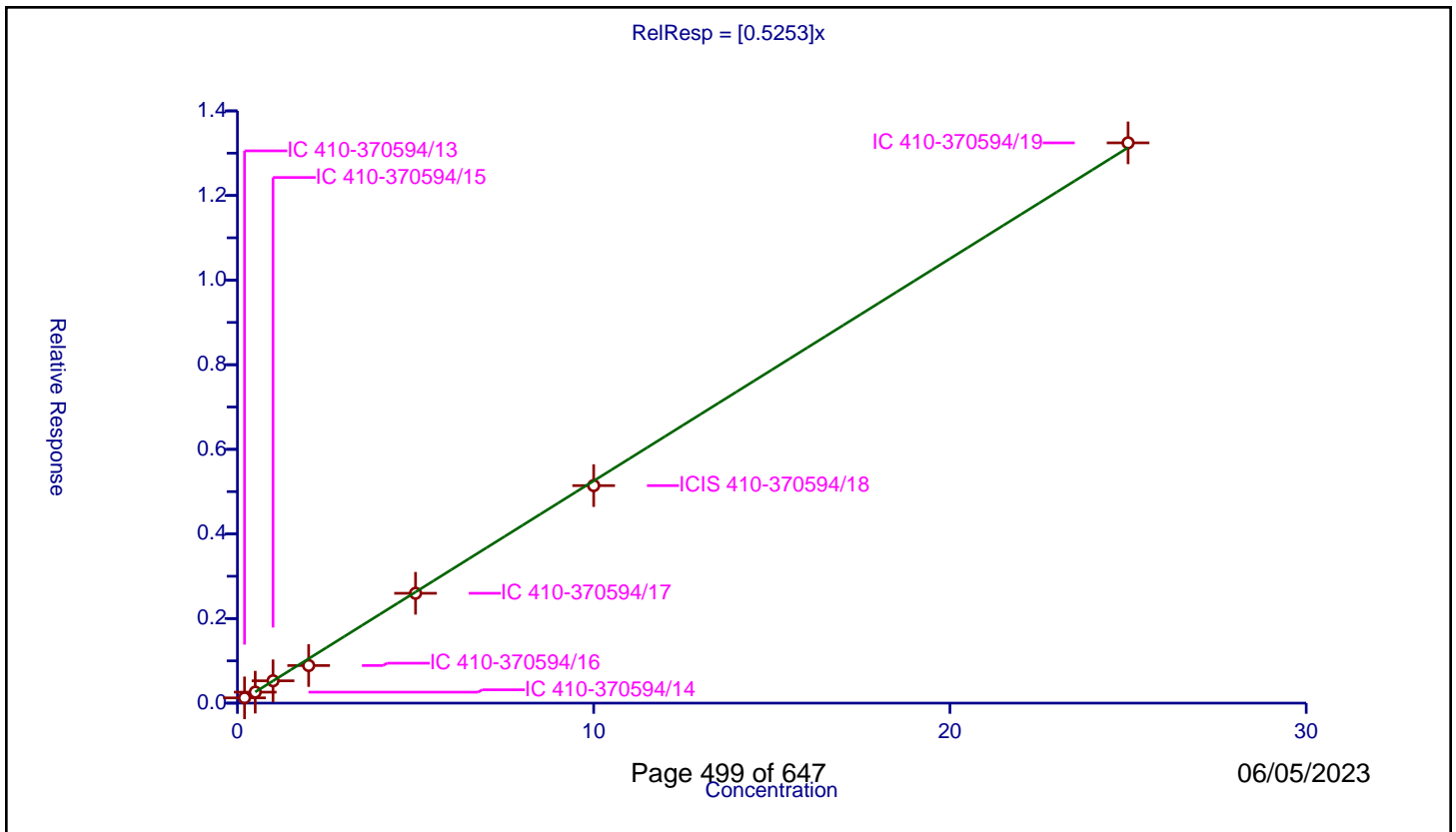
/ 1-Chlorohexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5253

Error Coefficients	
Standard Error:	1110000
Relative Standard Error:	9.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.12441	10.0	1838678.0	0.62205	Y
2	IC 410-370594/14	0.5	0.259806	10.0	1823359.0	0.519612	Y
3	IC 410-370594/15	1.0	0.527869	10.0	1852391.0	0.527869	Y
4	IC 410-370594/16	2.0	0.888384	10.0	1834206.0	0.444192	Y
5	IC 410-370594/17	5.0	2.596675	10.0	1855538.0	0.519335	Y
6	ICIS 410-370594/18	10.0	5.142015	10.0	1853075.0	0.514202	Y
7	IC 410-370594/19	25.0	13.24444	10.0	1882414.0	0.529778	Y



Calibration

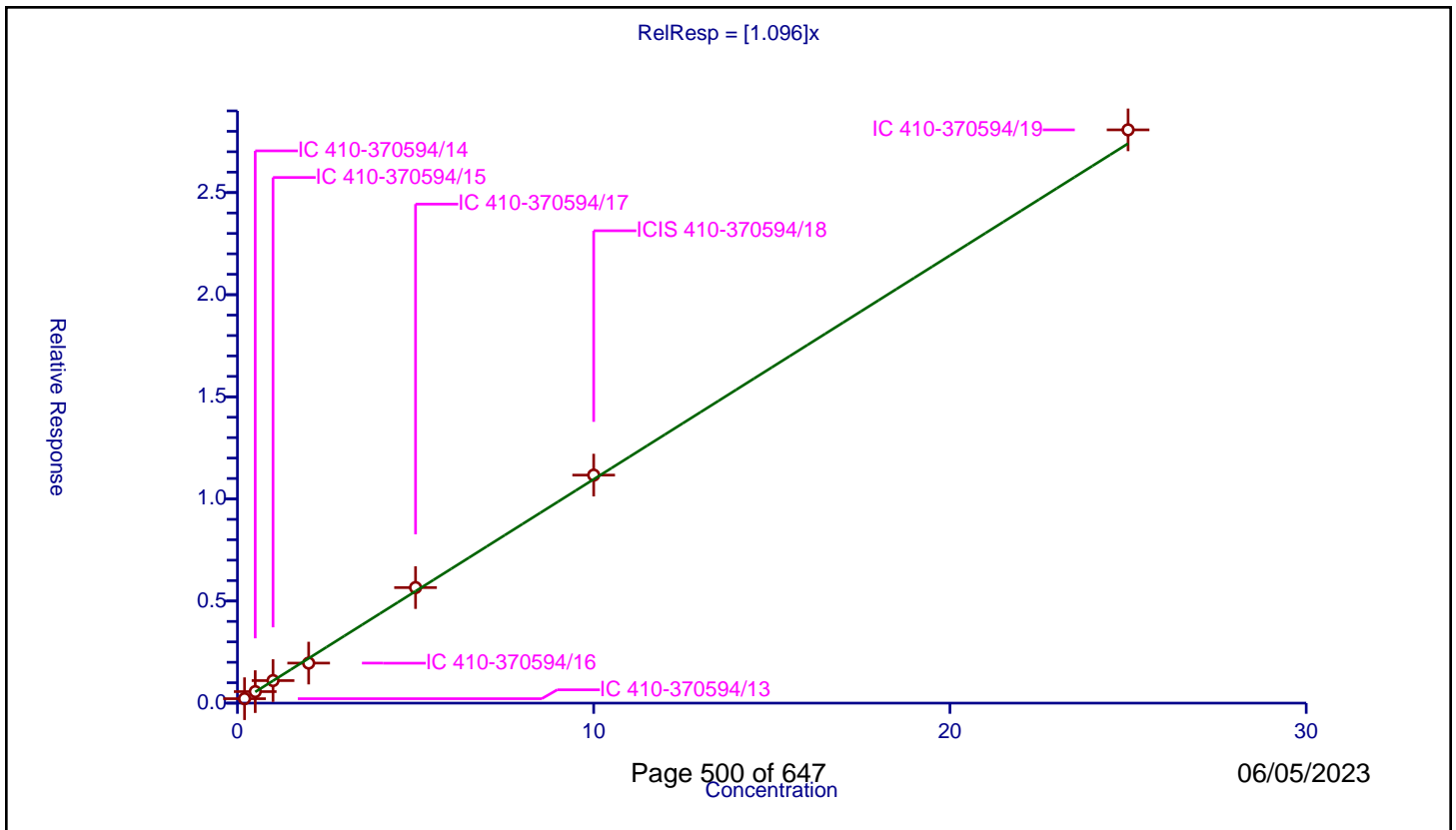
/ Chlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.096

Error Coefficients	
Standard Error:	2360000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.217694	10.0	1838678.0	1.088472	Y
2	IC 410-370594/14	0.5	0.564568	10.0	1823359.0	1.129136	Y
3	IC 410-370594/15	1.0	1.103757	10.0	1852391.0	1.103757	Y
4	IC 410-370594/16	2.0	1.960216	10.0	1834206.0	0.980108	Y
5	IC 410-370594/17	5.0	5.658041	10.0	1855538.0	1.131608	Y
6	ICIS 410-370594/18	10.0	11.165398	10.0	1853075.0	1.11654	Y
7	IC 410-370594/19	25.0	28.070844	10.0	1882414.0	1.122834	Y



Calibration

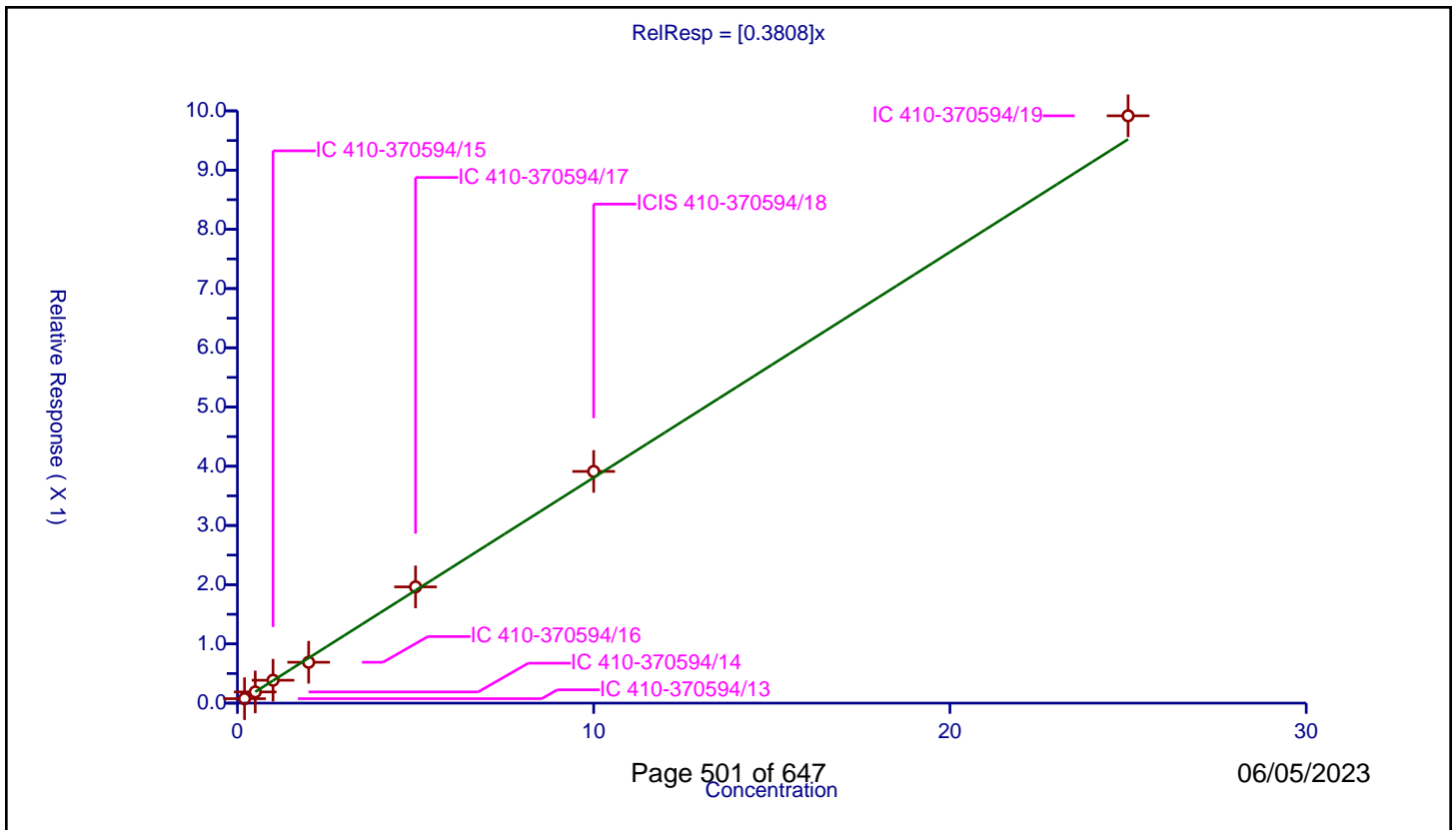
/ 1,1,1,2-Tetrachloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3808

Error Coefficients	
Standard Error:	833000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.075141	10.0	1838678.0	0.375705	Y
2	IC 410-370594/14	0.5	0.189058	10.0	1823359.0	0.378115	Y
3	IC 410-370594/15	1.0	0.386484	10.0	1852391.0	0.386484	Y
4	IC 410-370594/16	2.0	0.689906	10.0	1834206.0	0.344953	Y
5	IC 410-370594/17	5.0	1.962838	10.0	1855538.0	0.392568	Y
6	ICIS 410-370594/18	10.0	3.912157	10.0	1853075.0	0.391216	Y
7	IC 410-370594/19	25.0	9.916958	10.0	1882414.0	0.396678	Y



Calibration

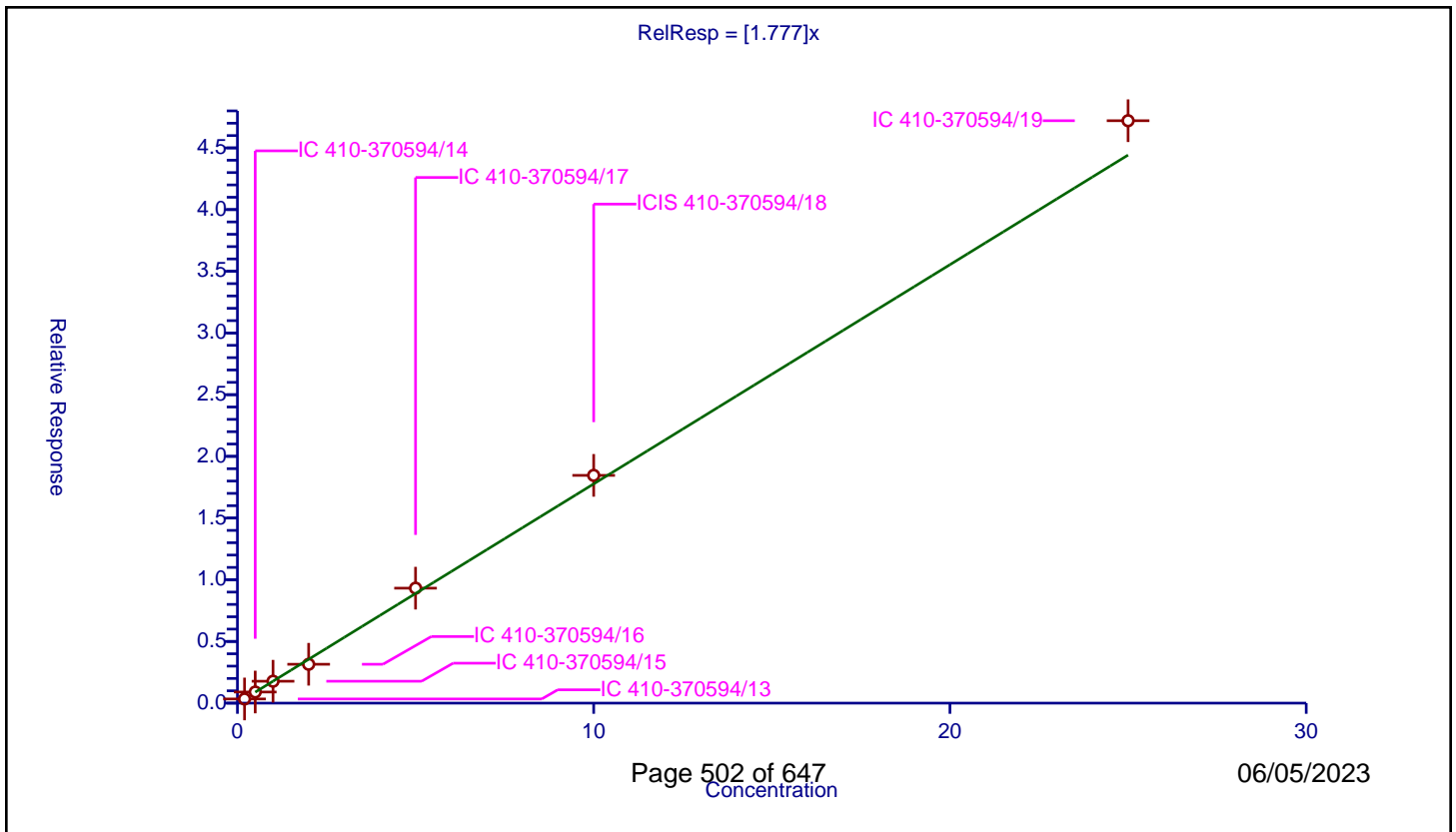
/ Ethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.777

Error Coefficients	
Standard Error:	3960000
Relative Standard Error:	6.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.33758	10.0	1838678.0	1.687898	Y
2	IC 410-370594/14	0.5	0.901221	10.0	1823359.0	1.802443	Y
3	IC 410-370594/15	1.0	1.774938	10.0	1852391.0	1.774938	Y
4	IC 410-370594/16	2.0	3.150284	10.0	1834206.0	1.575142	Y
5	IC 410-370594/17	5.0	9.318079	10.0	1855538.0	1.863616	Y
6	ICIS 410-370594/18	10.0	18.458373	10.0	1853075.0	1.845837	Y
7	IC 410-370594/19	25.0	47.202714	10.0	1882414.0	1.888109	Y



Calibration

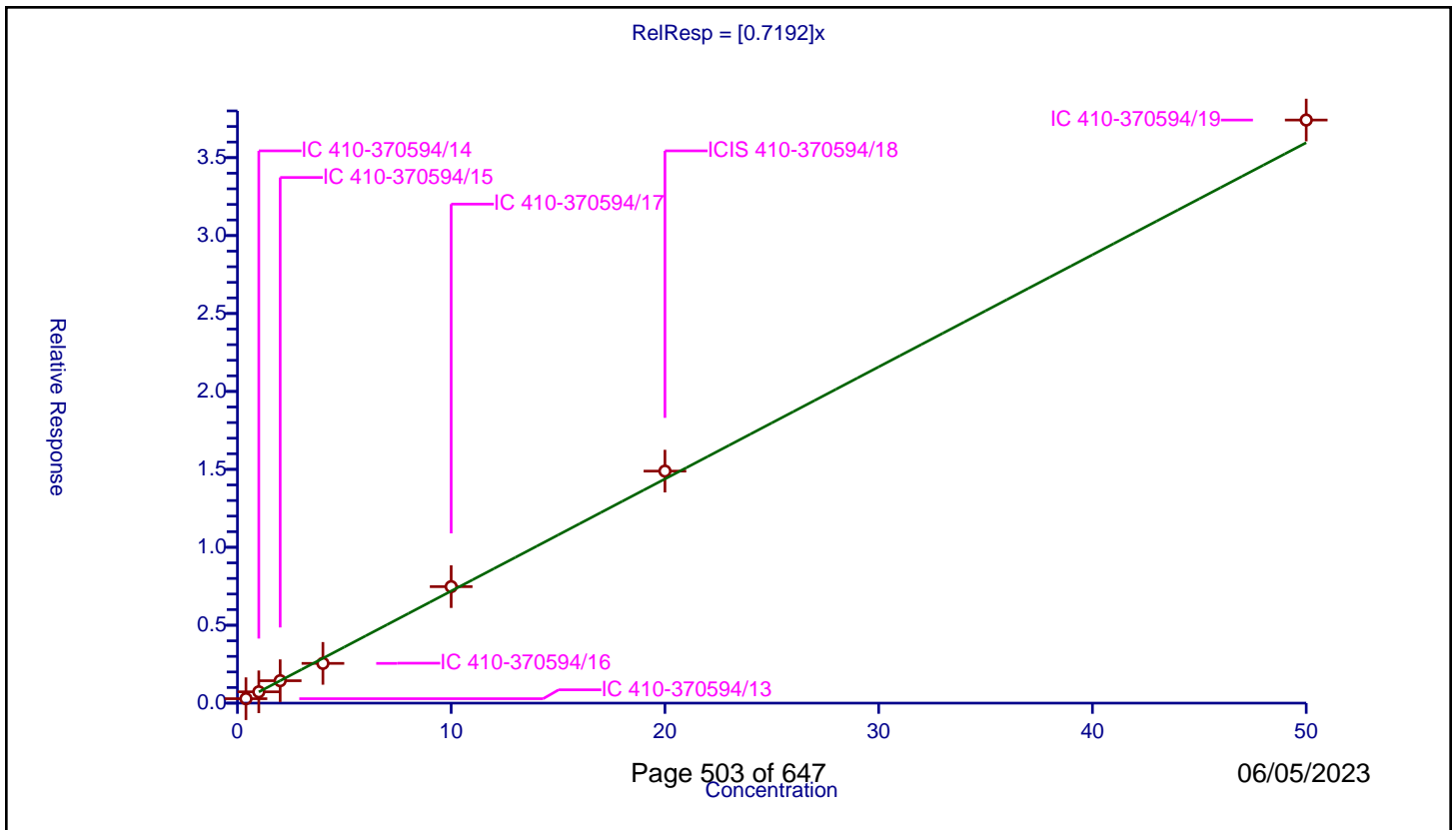
/ m-Xylene & p-Xylene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7192

Error Coefficients	
Standard Error:	3150000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.4	0.28477	10.0	1838678.0	0.711925	Y
2	IC 410-370594/14	1.0	0.725282	10.0	1823359.0	0.725282	Y
3	IC 410-370594/15	2.0	1.438438	10.0	1852391.0	0.719219	Y
4	IC 410-370594/16	4.0	2.551191	10.0	1834206.0	0.637798	Y
5	IC 410-370594/17	10.0	7.473795	10.0	1855538.0	0.747379	Y
6	ICIS 410-370594/18	20.0	14.887913	10.0	1853075.0	0.744396	Y
7	IC 410-370594/19	50.0	37.41304	10.0	1882414.0	0.748261	Y



Calibration

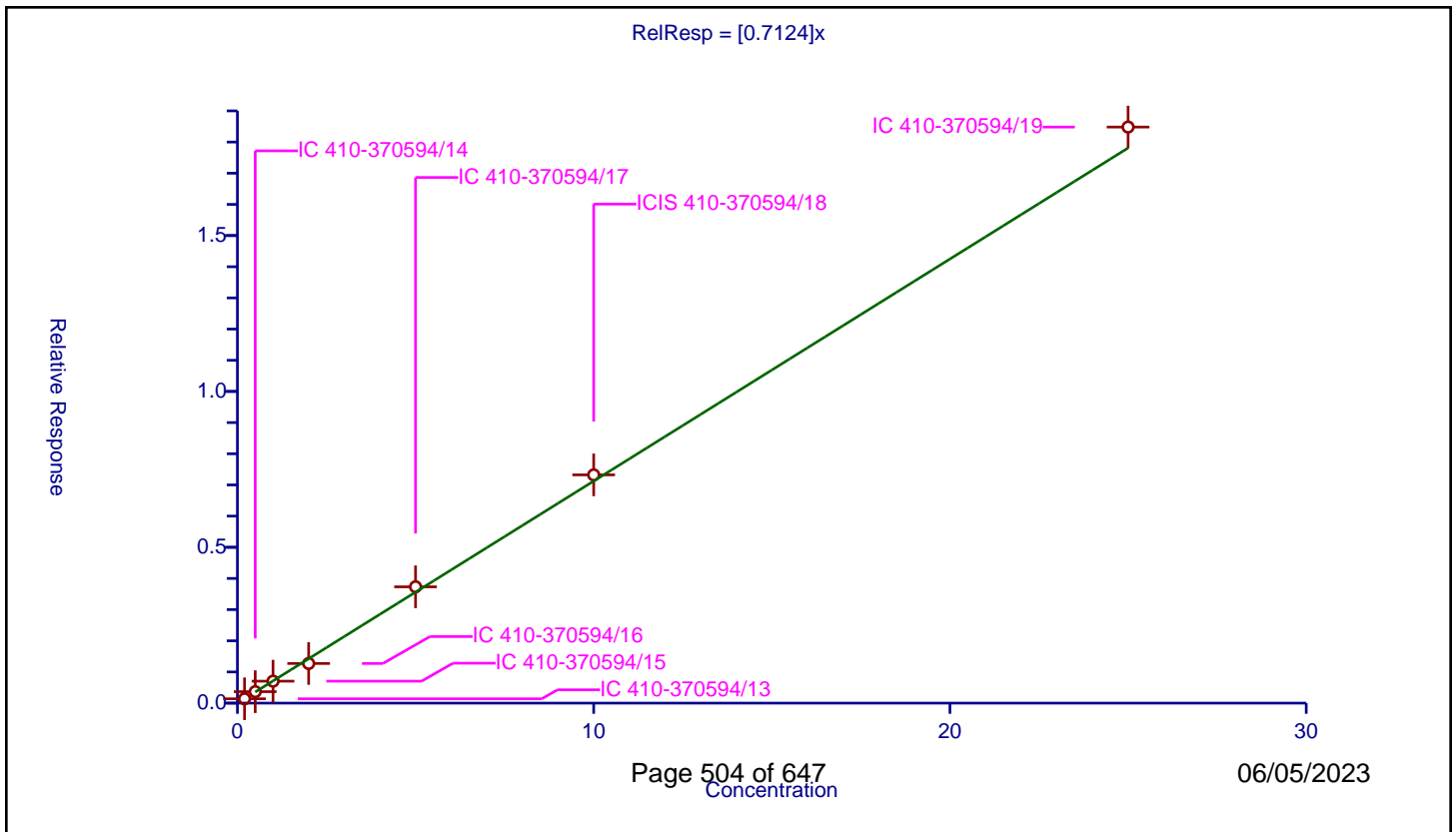
/ o-Xylene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7124

Error Coefficients	
Standard Error:	1550000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.138692	10.0	1838678.0	0.69346	Y
2	IC 410-370594/14	0.5	0.367443	10.0	1823359.0	0.734885	Y
3	IC 410-370594/15	1.0	0.704905	10.0	1852391.0	0.704905	Y
4	IC 410-370594/16	2.0	1.271482	10.0	1834206.0	0.635741	Y
5	IC 410-370594/17	5.0	3.731387	10.0	1855538.0	0.746277	Y
6	ICIS 410-370594/18	10.0	7.322774	10.0	1853075.0	0.732277	Y
7	IC 410-370594/19	25.0	18.481073	10.0	1882414.0	0.739243	Y



Calibration

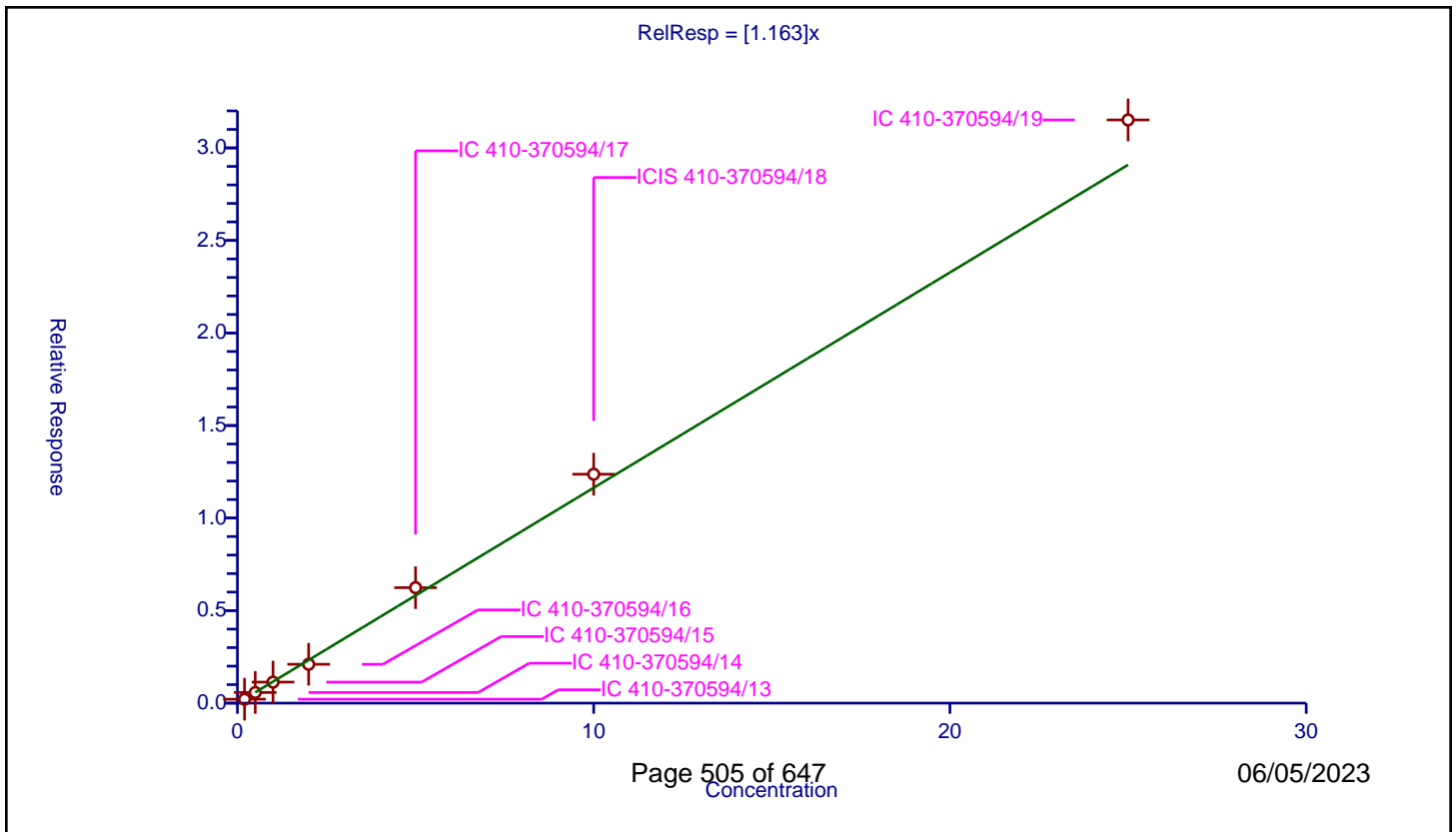
/ Styrene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.163

Error Coefficients	
Standard Error:	2650000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.212413	10.0	1838678.0	1.062067	Y
2	IC 410-370594/14	0.5	0.575487	10.0	1823359.0	1.150975	Y
3	IC 410-370594/15	1.0	1.136385	10.0	1852391.0	1.136385	Y
4	IC 410-370594/16	2.0	2.09941	10.0	1834206.0	1.049705	Y
5	IC 410-370594/17	5.0	6.238945	10.0	1855538.0	1.247789	Y
6	ICIS 410-370594/18	10.0	12.368447	10.0	1853075.0	1.236845	Y
7	IC 410-370594/19	25.0	31.51098	10.0	1882414.0	1.260439	Y



Calibration

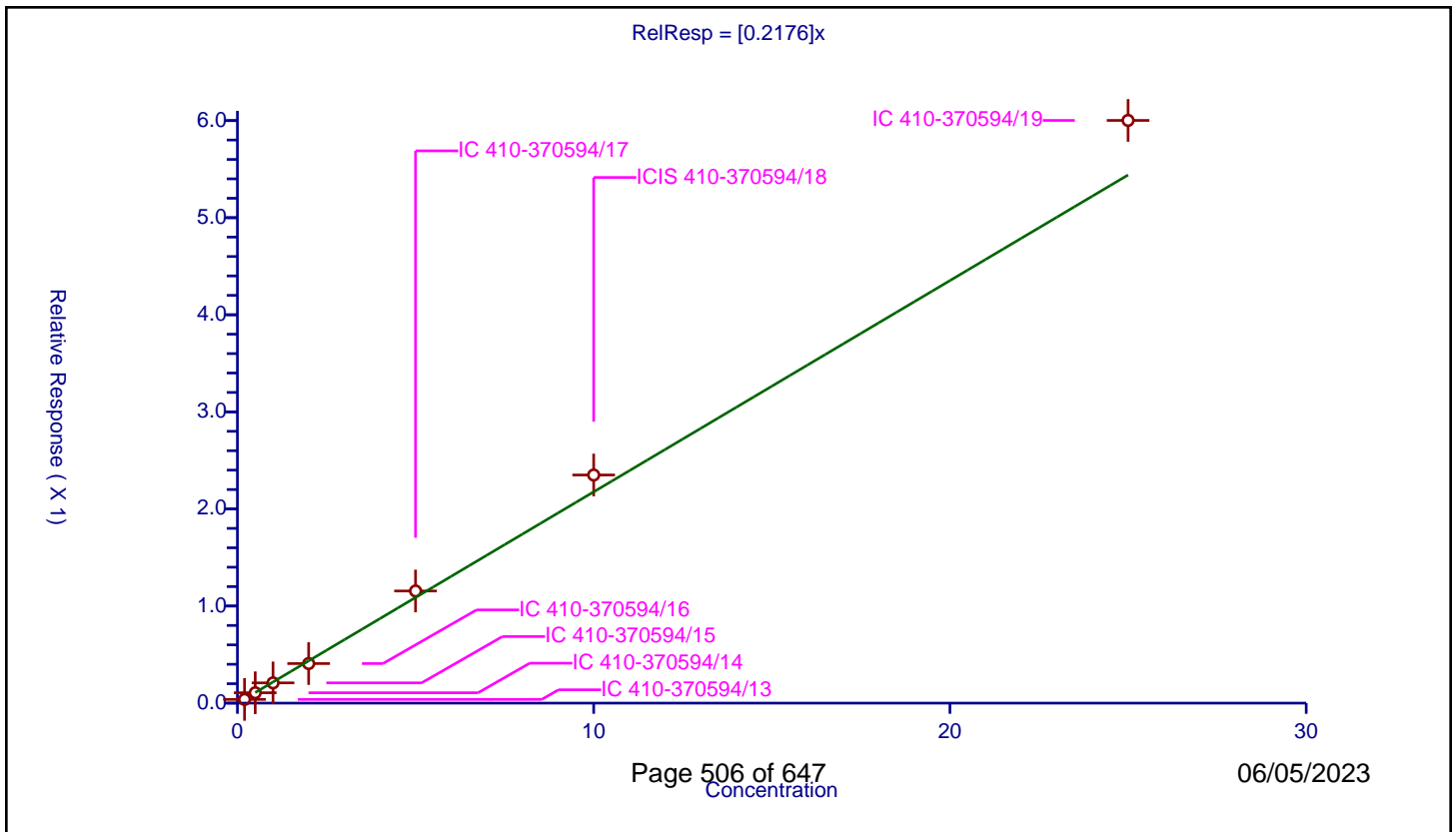
/ Bromoform

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2176

Error Coefficients	
Standard Error:	503000
Relative Standard Error:	8.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.038229	10.0	1838678.0	0.191143	Y
2	IC 410-370594/14	0.5	0.106841	10.0	1823359.0	0.213683	Y
3	IC 410-370594/15	1.0	0.208574	10.0	1852391.0	0.208574	Y
4	IC 410-370594/16	2.0	0.40749	10.0	1834206.0	0.203745	Y
5	IC 410-370594/17	5.0	1.155174	10.0	1855538.0	0.231035	Y
6	ICIS 410-370594/18	10.0	2.349603	10.0	1853075.0	0.23496	Y
7	IC 410-370594/19	25.0	6.001825	10.0	1882414.0	0.240073	Y



Calibration

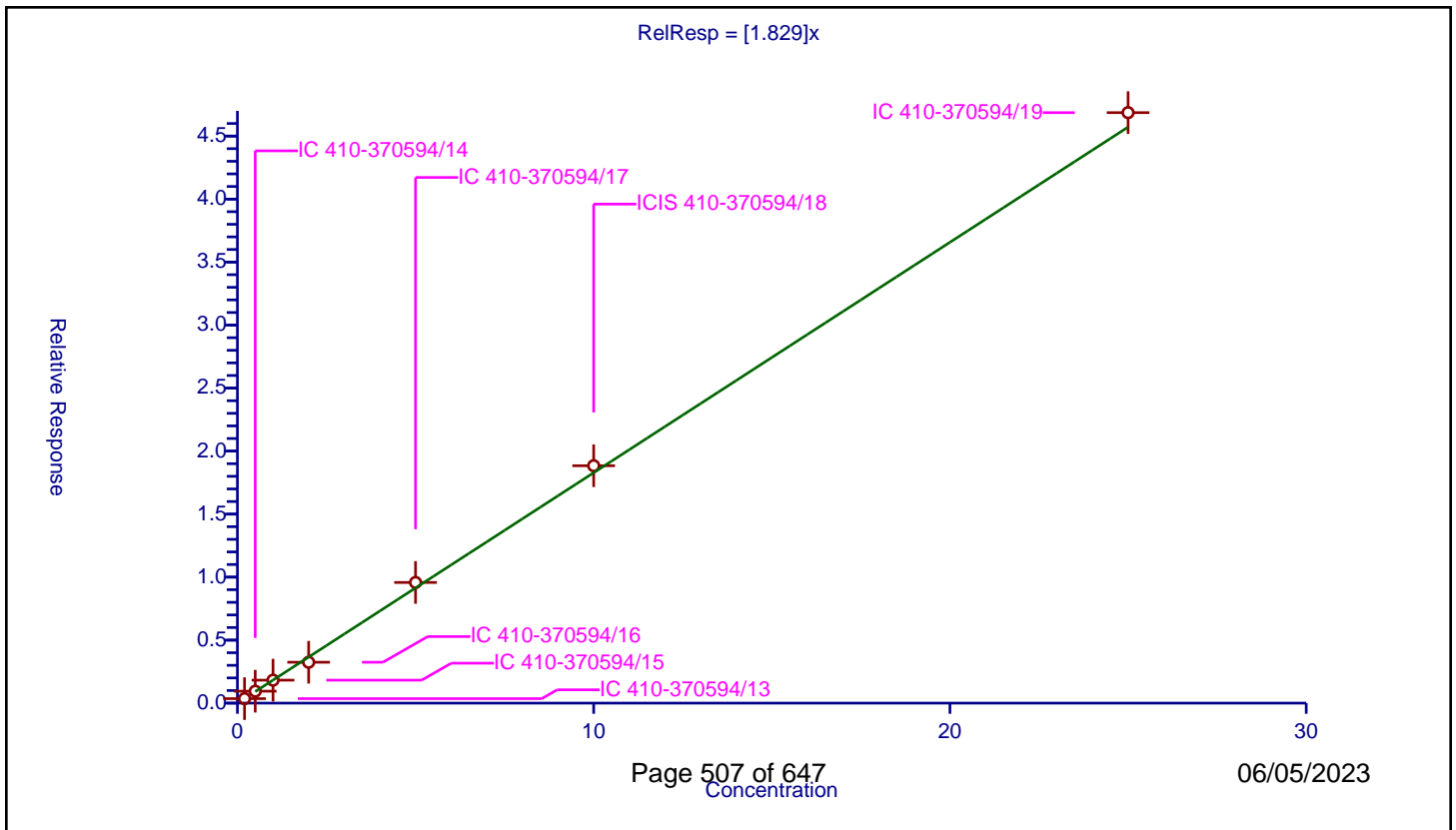
/ Isopropylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.829

Error Coefficients	
Standard Error:	3950000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.357007	10.0	1838678.0	1.785033	Y
2	IC 410-370594/14	0.5	0.947778	10.0	1823359.0	1.895556	Y
3	IC 410-370594/15	1.0	1.822504	10.0	1852391.0	1.822504	Y
4	IC 410-370594/16	2.0	3.246266	10.0	1834206.0	1.623133	Y
5	IC 410-370594/17	5.0	9.576834	10.0	1855538.0	1.915367	Y
6	ICIS 410-370594/18	10.0	18.840651	10.0	1853075.0	1.884065	Y
7	IC 410-370594/19	25.0	46.861429	10.0	1882414.0	1.874457	Y



Calibration

/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

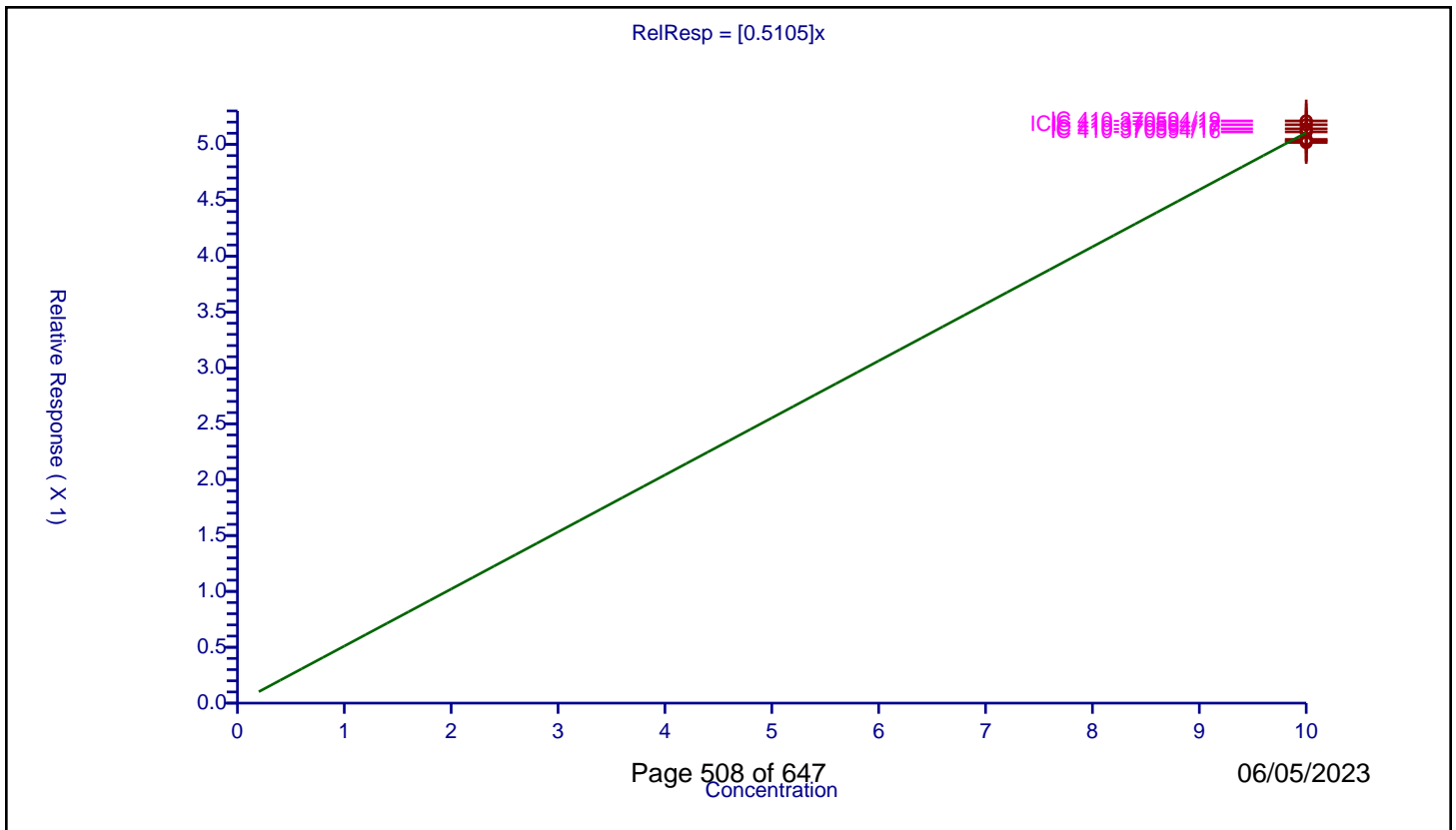
Curve Coefficients

Intercept: 0
 Slope: 0.5105

Error Coefficients

Standard Error: 1020000
 Relative Standard Error: 1.5
 Correlation Coefficient: NA
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	10.0	5.032512	10.0	1838678.0	0.503251	Y
2	IC 410-370594/14	10.0	5.04498	10.0	1823359.0	0.504498	Y
3	IC 410-370594/15	10.0	5.017089	10.0	1852391.0	0.501709	Y
4	IC 410-370594/16	10.0	5.111863	10.0	1834206.0	0.511186	Y
5	IC 410-370594/17	10.0	5.139717	10.0	1855538.0	0.513972	Y
6	ICIS 410-370594/18	10.0	5.176256	10.0	1853075.0	0.517626	Y
7	IC 410-370594/19	10.0	5.210076	10.0	1882414.0	0.521008	Y



Calibration

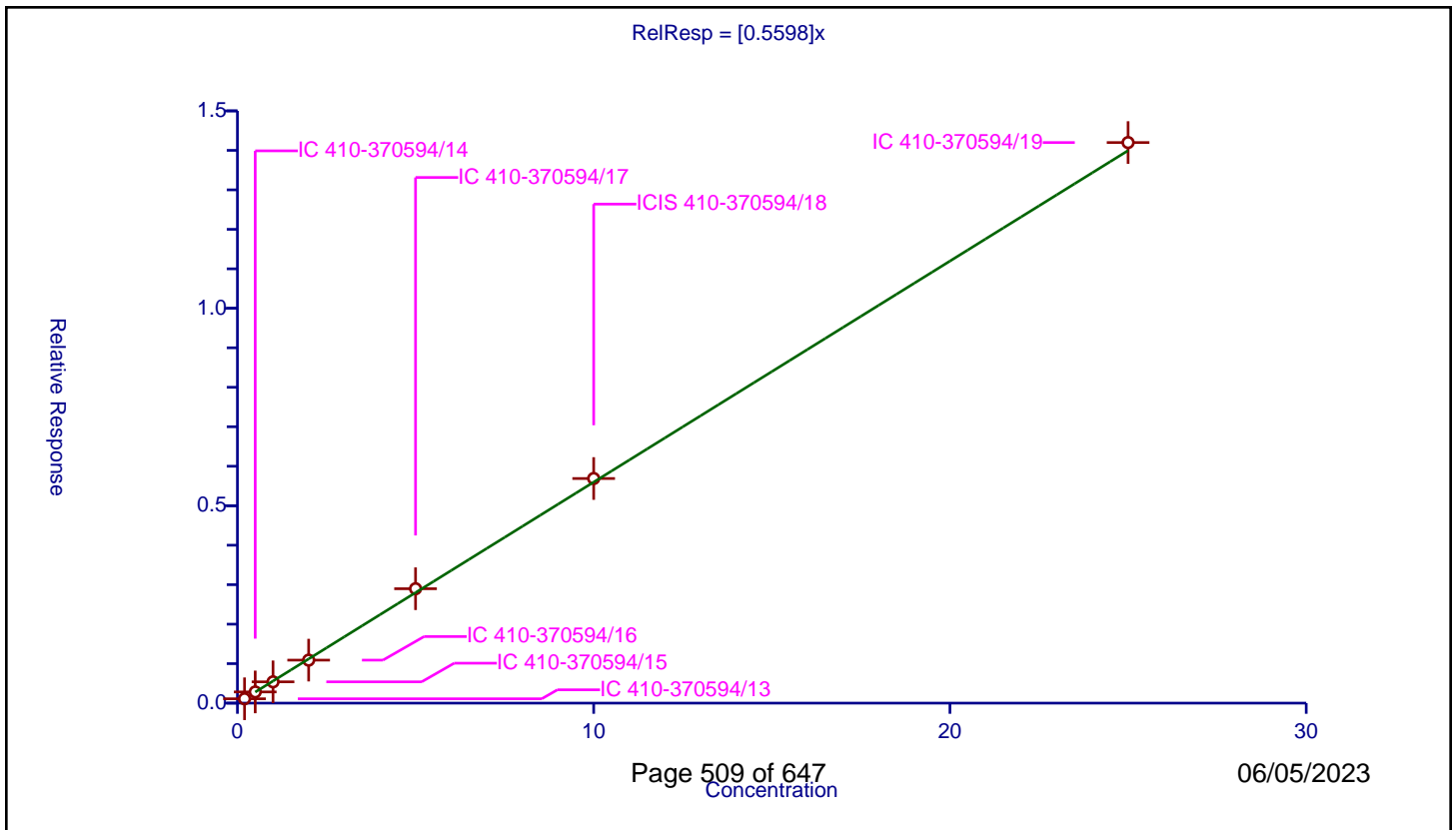
/ 1,1,2,2-Tetrachloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5598

Error Coefficients	
Standard Error:	762000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.110162	10.0	1137326.0	0.55081	Y
2	IC 410-370594/14	0.5	0.283804	10.0	1130639.0	0.567608	Y
3	IC 410-370594/15	1.0	0.539143	10.0	1158894.0	0.539143	Y
4	IC 410-370594/16	2.0	1.089373	10.0	1146421.0	0.544686	Y
5	IC 410-370594/17	5.0	2.897777	10.0	1147138.0	0.579555	Y
6	ICIS 410-370594/18	10.0	5.688744	10.0	1160831.0	0.568874	Y
7	IC 410-370594/19	25.0	14.197711	10.0	1202079.0	0.567908	Y



Calibration

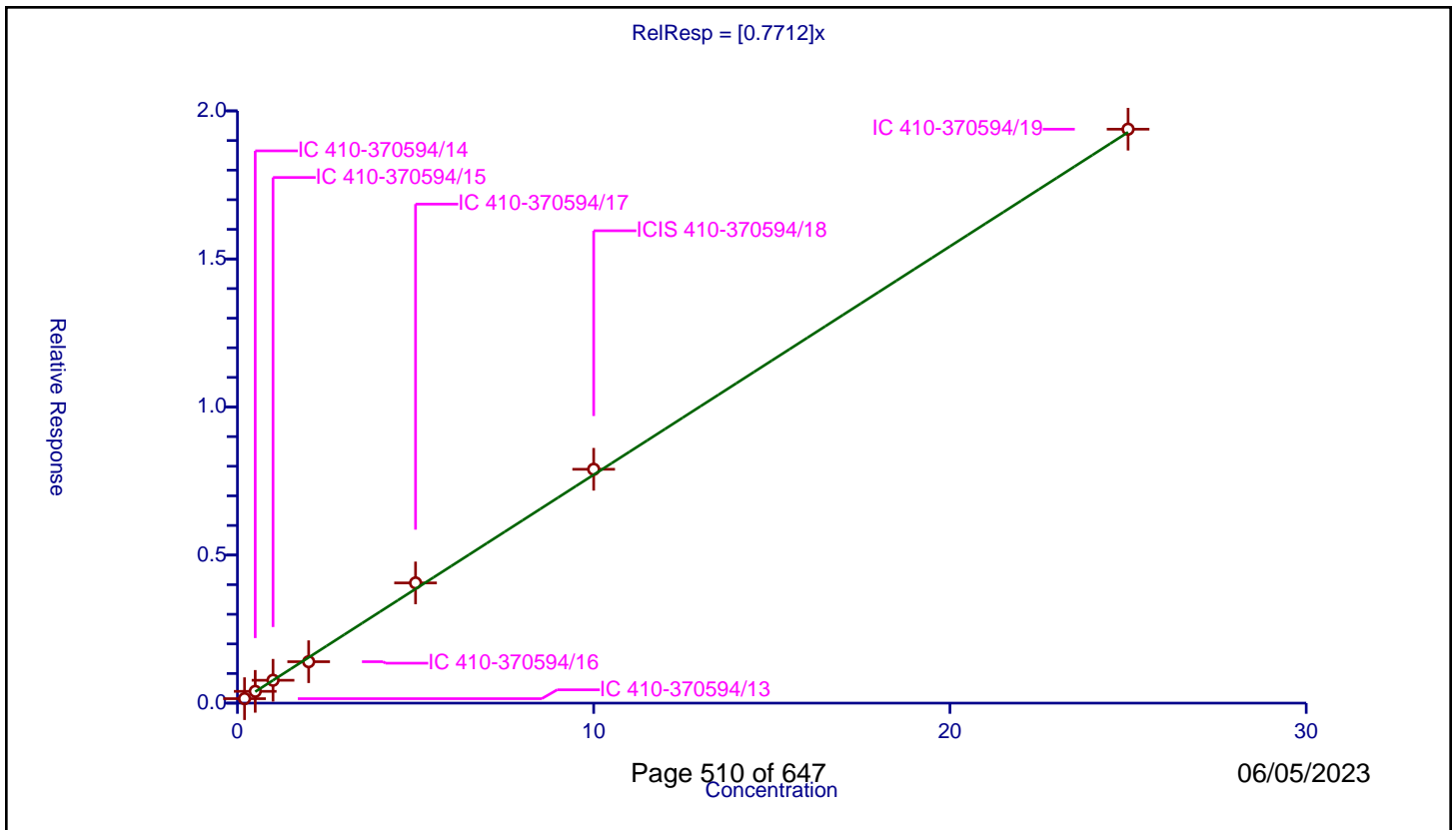
/ Bromobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7712

Error Coefficients	
Standard Error:	1040000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.150942	10.0	1137326.0	0.754709	Y
2	IC 410-370594/14	0.5	0.39766	10.0	1130639.0	0.79532	Y
3	IC 410-370594/15	1.0	0.772081	10.0	1158894.0	0.772081	Y
4	IC 410-370594/16	2.0	1.399224	10.0	1146421.0	0.699612	Y
5	IC 410-370594/17	5.0	4.059485	10.0	1147138.0	0.811897	Y
6	ICIS 410-370594/18	10.0	7.897136	10.0	1160831.0	0.789714	Y
7	IC 410-370594/19	25.0	19.382445	10.0	1202079.0	0.775298	Y



Calibration

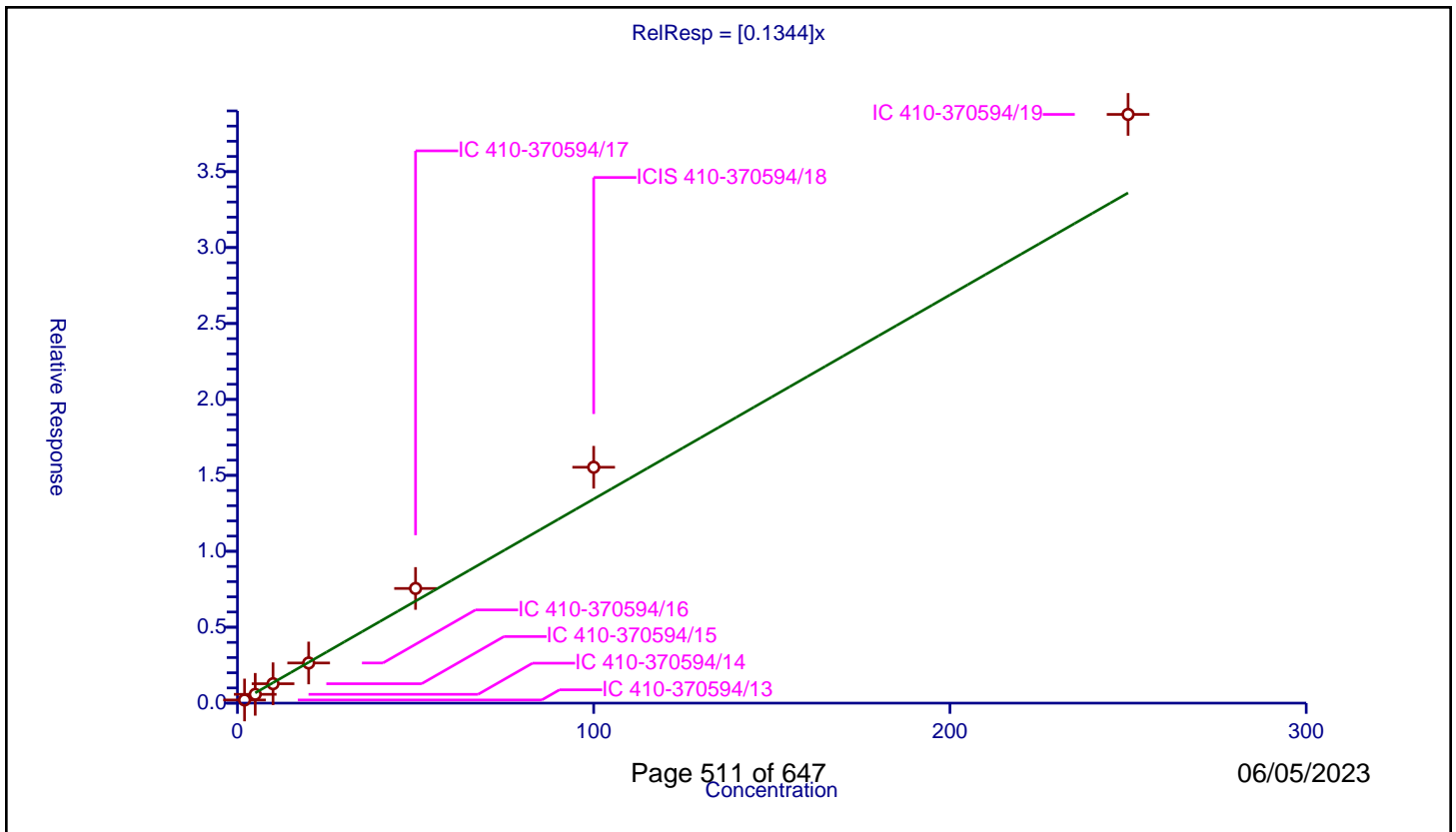
/ trans-1,4-Dichloro-2-butene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1344

Error Coefficients	
Standard Error:	2080000
Relative Standard Error:	15.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	2.0	0.20739	10.0	1137326.0	0.103695	Y
2	IC 410-370594/14	5.0	0.578885	10.0	1130639.0	0.115777	Y
3	IC 410-370594/15	10.0	1.277037	10.0	1158894.0	0.127704	Y
4	IC 410-370594/16	20.0	2.644779	10.0	1146421.0	0.132239	Y
5	IC 410-370594/17	50.0	7.552047	10.0	1147138.0	0.151041	Y
6	ICIS 410-370594/18	100.0	15.532442	10.0	1160831.0	0.155324	Y
7	IC 410-370594/19	250.0	38.769307	10.0	1202079.0	0.155077	Y



Calibration

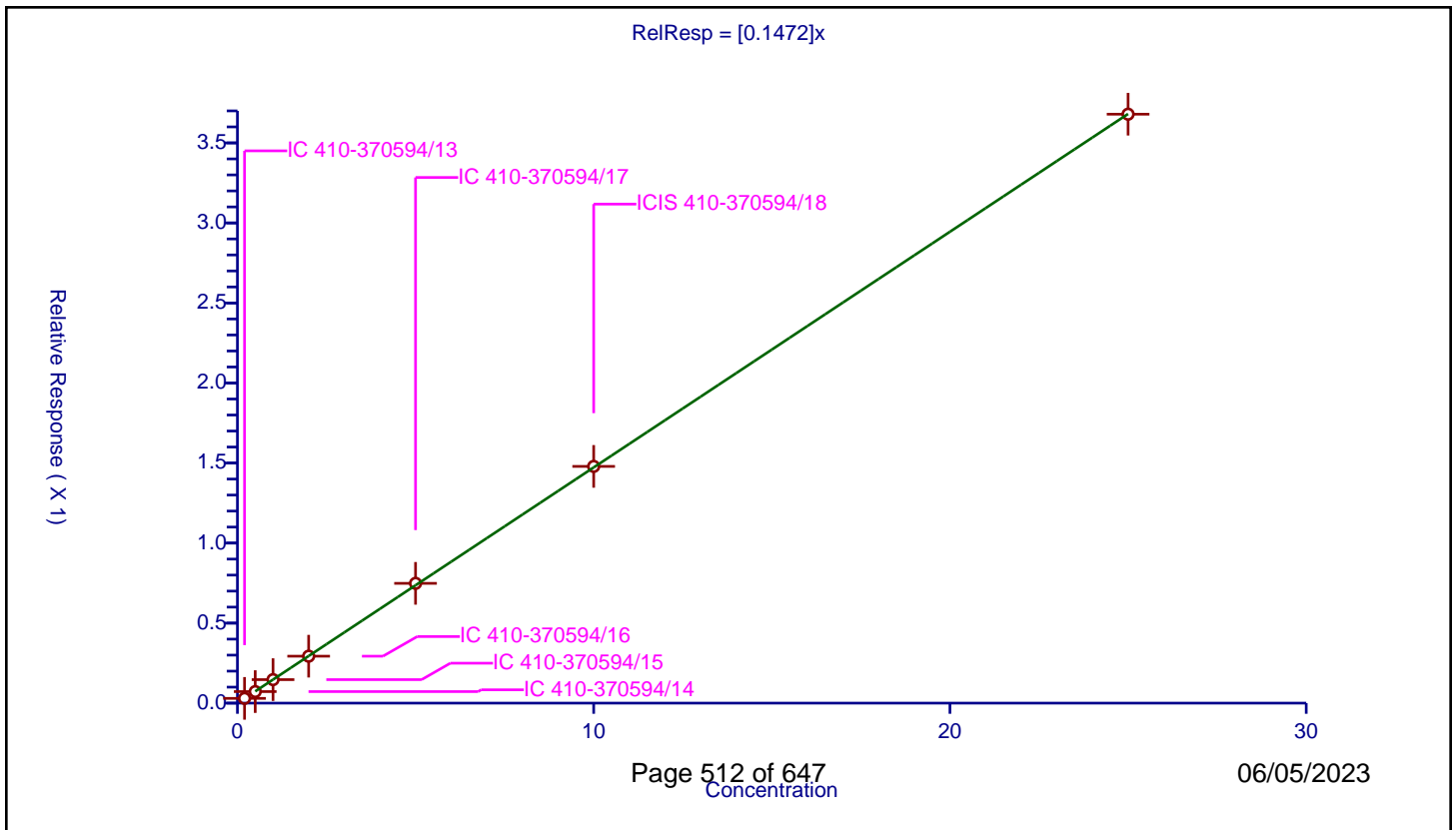
/ 1,2,3-Trichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1472

Error Coefficients	
Standard Error:	197000
Relative Standard Error:	1.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.029622	10.0	1137326.0	0.148111	Y
2	IC 410-370594/14	0.5	0.072207	10.0	1130639.0	0.144414	Y
3	IC 410-370594/15	1.0	0.146804	10.0	1158894.0	0.146804	Y
4	IC 410-370594/16	2.0	0.293287	10.0	1146421.0	0.146643	Y
5	IC 410-370594/17	5.0	0.748323	10.0	1147138.0	0.149665	Y
6	ICIS 410-370594/18	10.0	1.478975	10.0	1160831.0	0.147897	Y
7	IC 410-370594/19	25.0	3.679351	10.0	1202079.0	0.147174	Y



Calibration

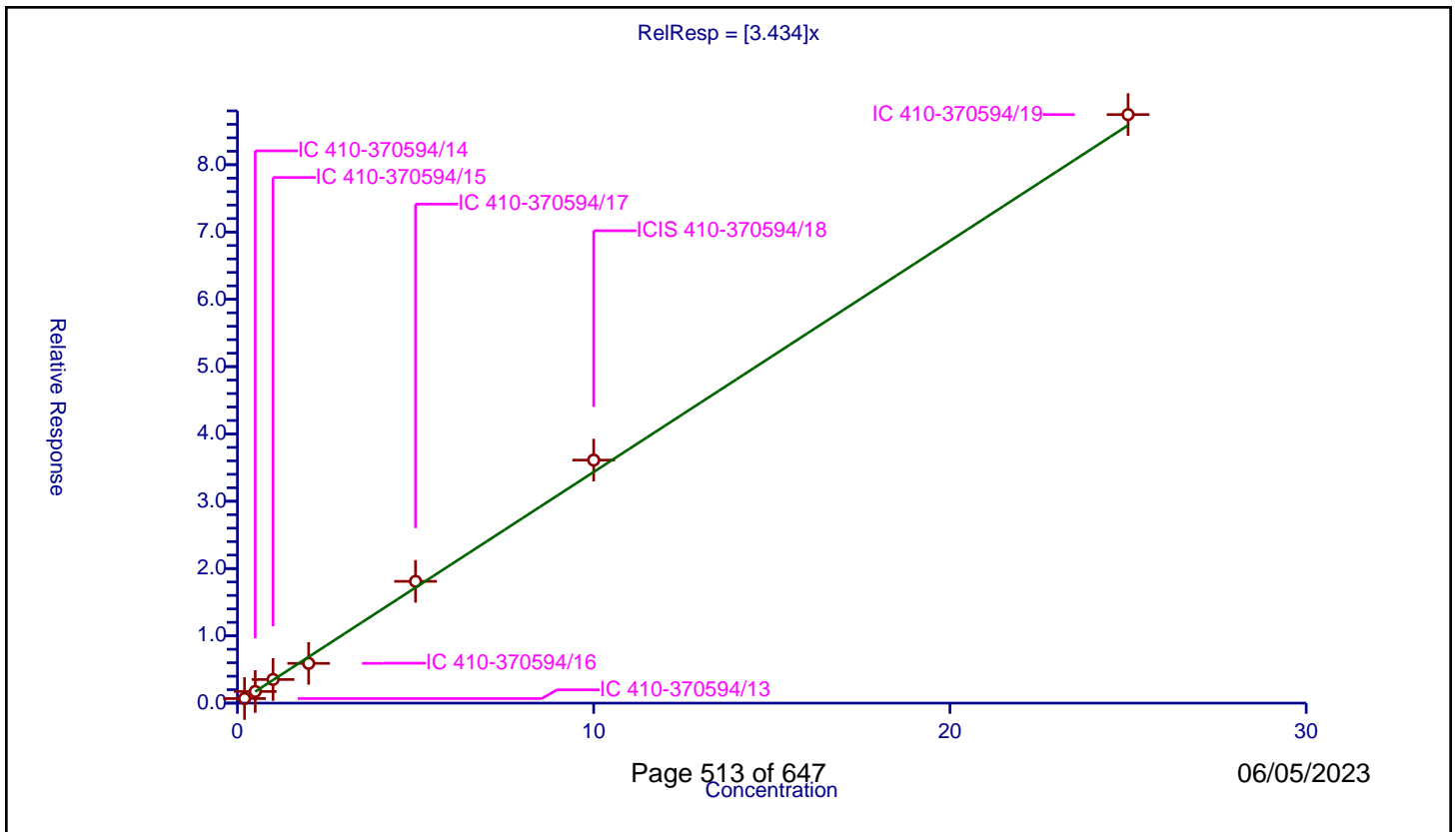
/ N-Propylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.434

Error Coefficients	
Standard Error:	4710000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.676763	10.0	1137326.0	3.383814	Y
2	IC 410-370594/14	0.5	1.731711	10.0	1130639.0	3.463422	Y
3	IC 410-370594/15	1.0	3.51234	10.0	1158894.0	3.51234	Y
4	IC 410-370594/16	2.0	5.907088	10.0	1146421.0	2.953544	Y
5	IC 410-370594/17	5.0	18.09424	10.0	1147138.0	3.618848	Y
6	ICIS 410-370594/18	10.0	36.113017	10.0	1160831.0	3.611302	Y
7	IC 410-370594/19	25.0	87.44946	10.0	1202079.0	3.497978	Y



Calibration

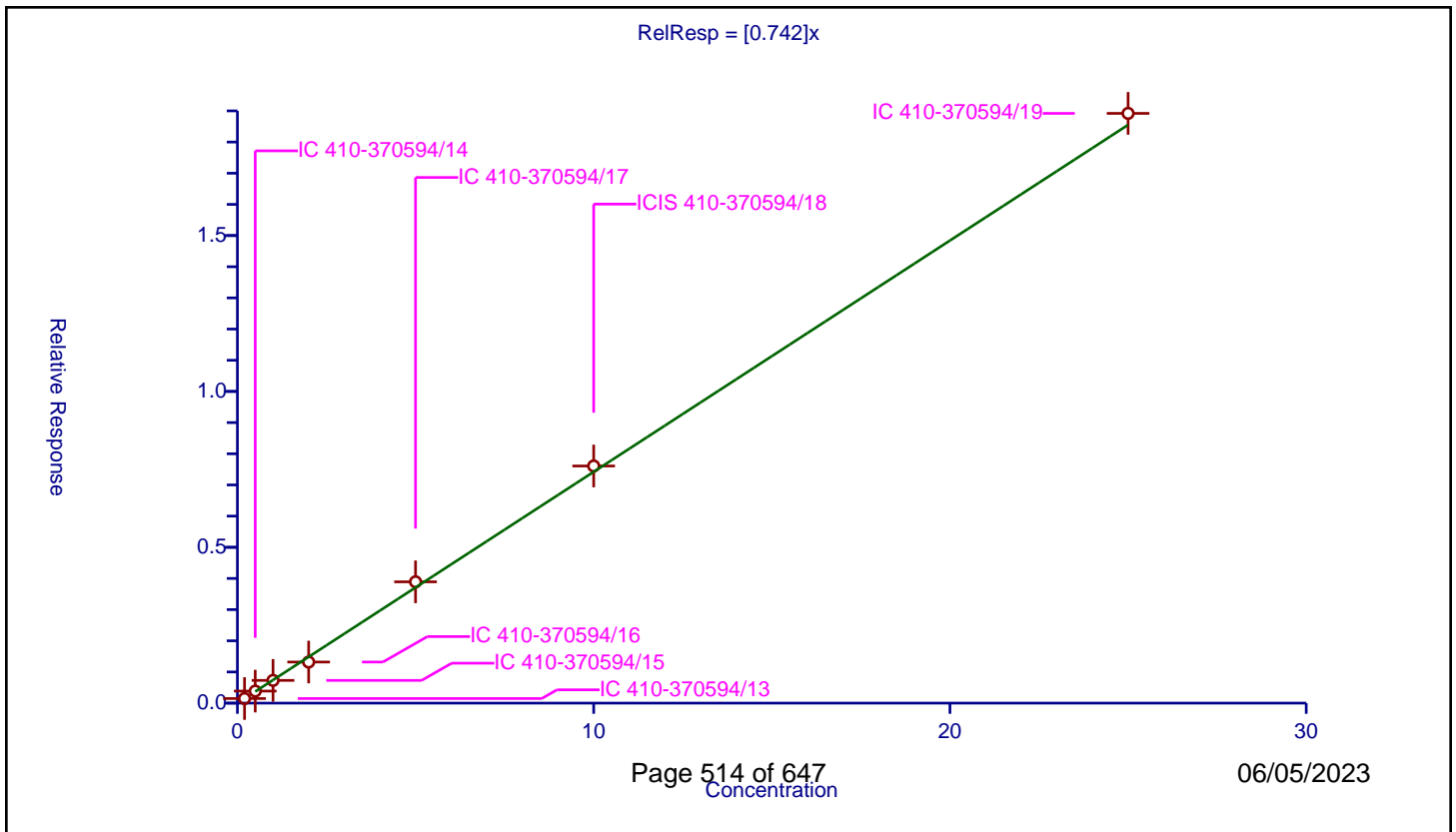
/ 2-Chlorotoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.742

Error Coefficients	
Standard Error:	1020000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.147328	10.0	1137326.0	0.73664	Y
2	IC 410-370594/14	0.5	0.386295	10.0	1130639.0	0.77259	Y
3	IC 410-370594/15	1.0	0.72942	10.0	1158894.0	0.72942	Y
4	IC 410-370594/16	2.0	1.319088	10.0	1146421.0	0.659544	Y
5	IC 410-370594/17	5.0	3.891851	10.0	1147138.0	0.77837	Y
6	ICIS 410-370594/18	10.0	7.607783	10.0	1160831.0	0.760778	Y
7	IC 410-370594/19	25.0	18.919722	10.0	1202079.0	0.756789	Y



Calibration

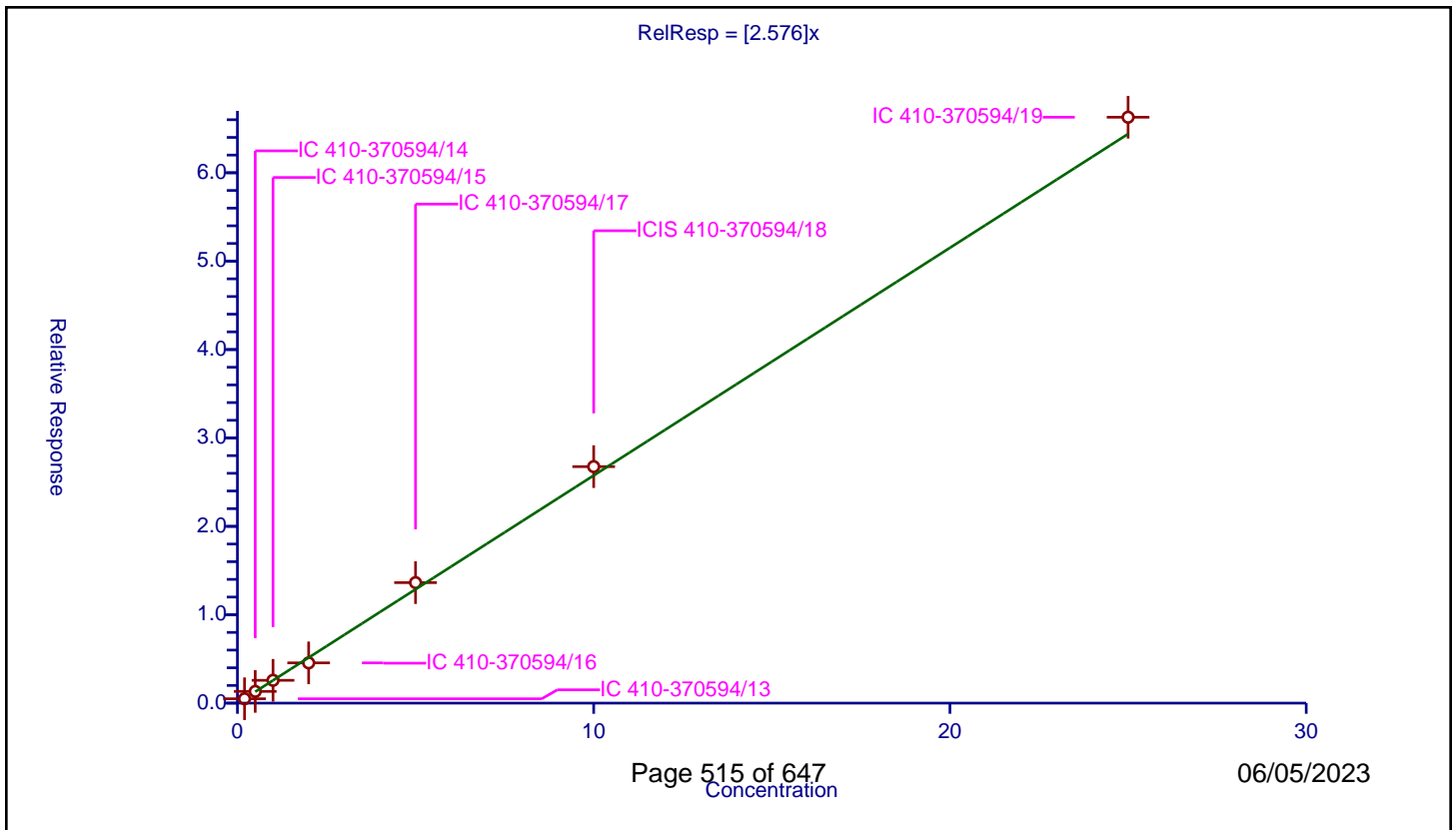
/ 1,3,5-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.576

Error Coefficients	
Standard Error:	3560000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.492867	10.0	1137326.0	2.464333	Y
2	IC 410-370594/14	0.5	1.326082	10.0	1130639.0	2.652164	Y
3	IC 410-370594/15	1.0	2.581384	10.0	1158894.0	2.581384	Y
4	IC 410-370594/16	2.0	4.554627	10.0	1146421.0	2.277313	Y
5	IC 410-370594/17	5.0	13.633216	10.0	1147138.0	2.726643	Y
6	ICIS 410-370594/18	10.0	26.754101	10.0	1160831.0	2.67541	Y
7	IC 410-370594/19	25.0	66.283206	10.0	1202079.0	2.651328	Y



Calibration

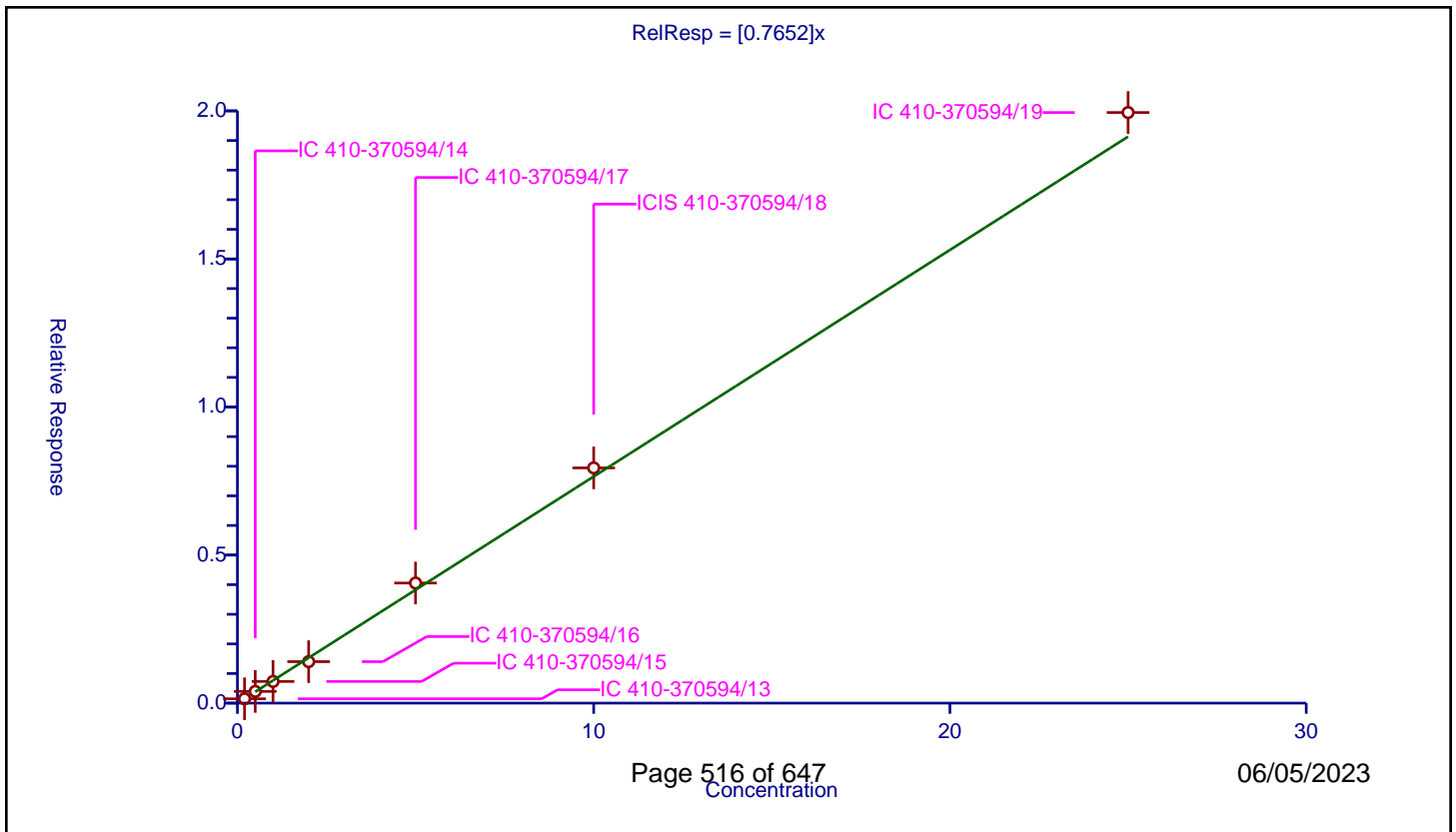
/ 4-Chlorotoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7652

Error Coefficients	
Standard Error:	1070000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.145851	10.0	1137326.0	0.729254	Y
2	IC 410-370594/14	0.5	0.395909	10.0	1130639.0	0.791818	Y
3	IC 410-370594/15	1.0	0.731629	10.0	1158894.0	0.731629	Y
4	IC 410-370594/16	2.0	1.400716	10.0	1146421.0	0.700358	Y
5	IC 410-370594/17	5.0	4.055563	10.0	1147138.0	0.811113	Y
6	ICIS 410-370594/18	10.0	7.944567	10.0	1160831.0	0.794457	Y
7	IC 410-370594/19	25.0	19.944771	10.0	1202079.0	0.797791	Y



Calibration

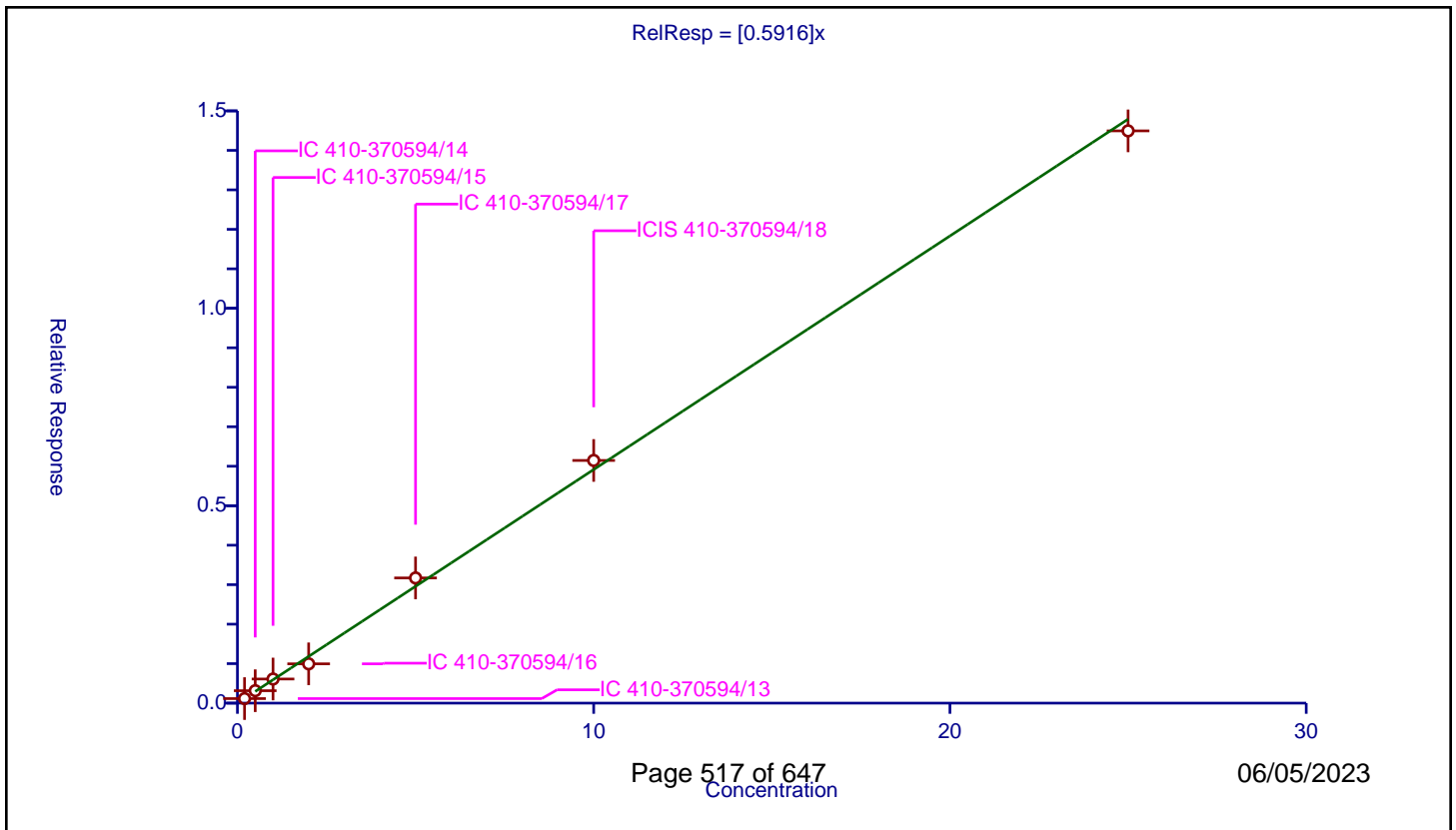
/ tert-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5916

Error Coefficients	
Standard Error:	785000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.114954	10.0	1137326.0	0.574769	Y
2	IC 410-370594/14	0.5	0.314902	10.0	1130639.0	0.629803	Y
3	IC 410-370594/15	1.0	0.610487	10.0	1158894.0	0.610487	Y
4	IC 410-370594/16	2.0	0.995236	10.0	1146421.0	0.497618	Y
5	IC 410-370594/17	5.0	3.170543	10.0	1147138.0	0.634109	Y
6	ICIS 410-370594/18	10.0	6.146562	10.0	1160831.0	0.614656	Y
7	IC 410-370594/19	25.0	14.493823	10.0	1202079.0	0.579753	Y



Calibration

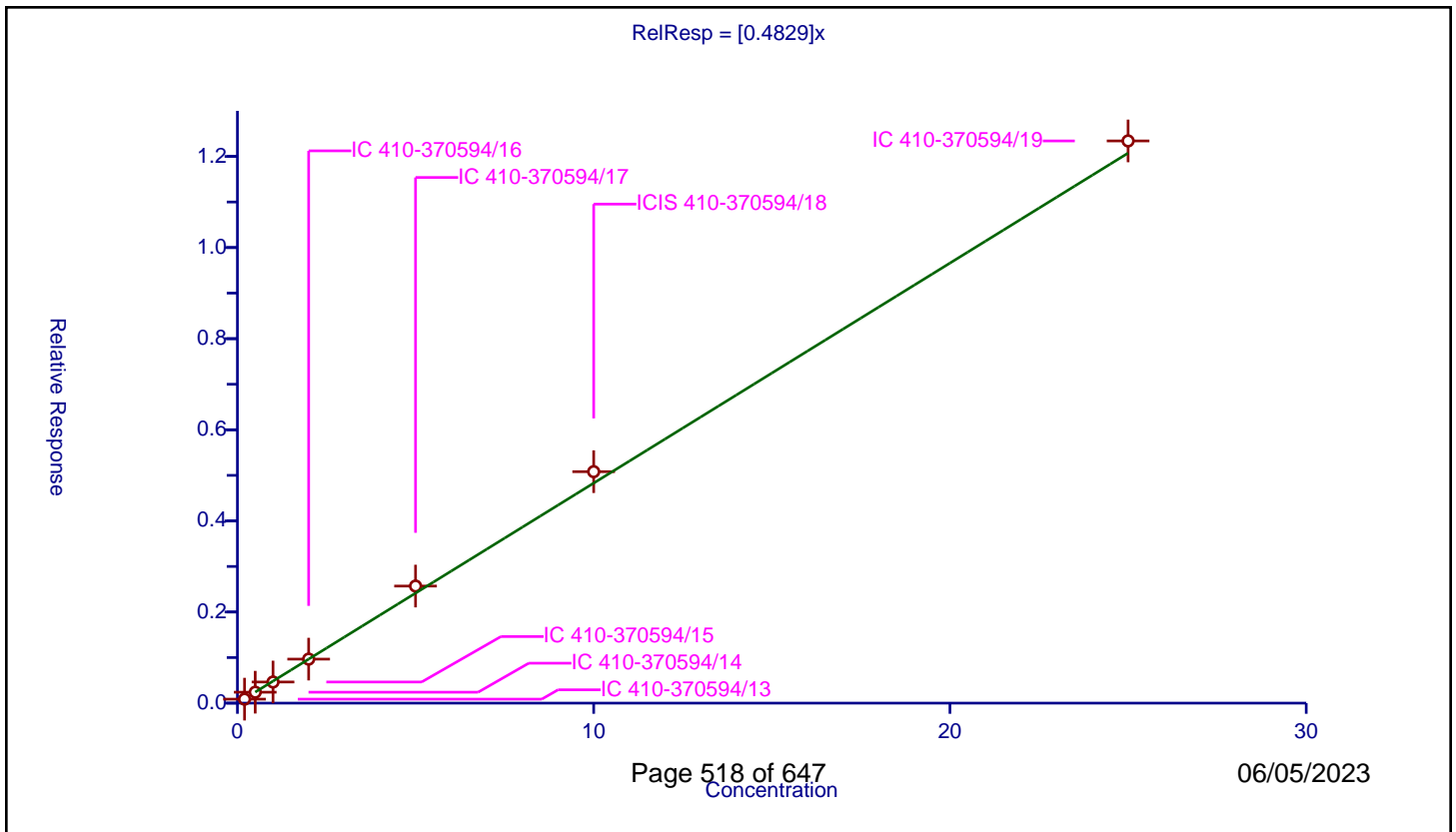
/ Pentachloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4829

Error Coefficients	
Standard Error:	665000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.087609	10.0	1137326.0	0.438045	Y
2	IC 410-370594/14	0.5	0.240077	10.0	1130639.0	0.480153	Y
3	IC 410-370594/15	1.0	0.463632	10.0	1158894.0	0.463632	Y
4	IC 410-370594/16	2.0	0.966233	10.0	1146421.0	0.483117	Y
5	IC 410-370594/17	5.0	2.569743	10.0	1147138.0	0.513949	Y
6	ICIS 410-370594/18	10.0	5.08055	10.0	1160831.0	0.508055	Y
7	IC 410-370594/19	25.0	12.340503	10.0	1202079.0	0.49362	Y



Calibration

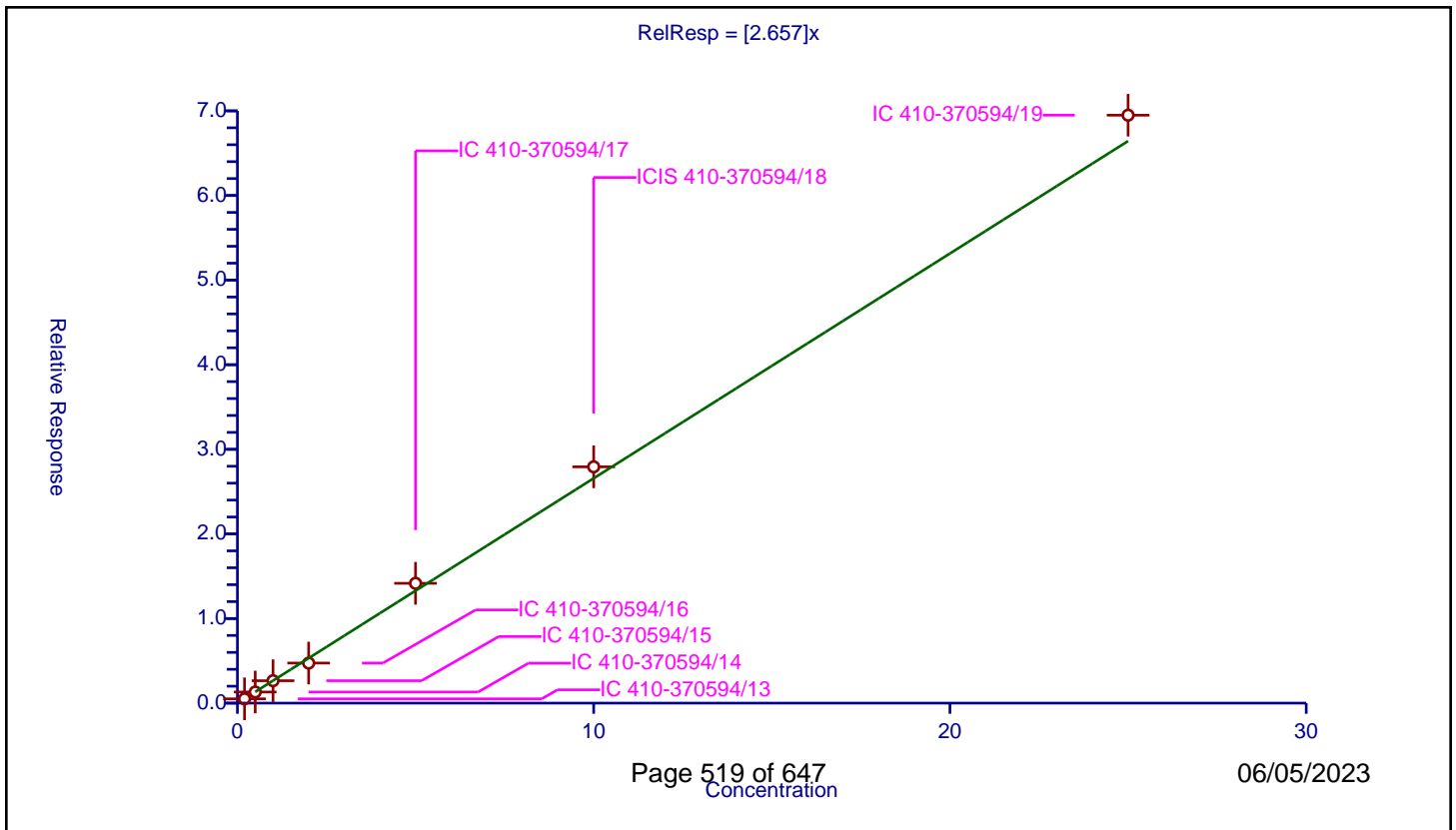
/ 1,2,4-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.657

Error Coefficients	
Standard Error:	3730000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.509836	10.0	1137326.0	2.549181	Y
2	IC 410-370594/14	0.5	1.315698	10.0	1130639.0	2.631397	Y
3	IC 410-370594/15	1.0	2.64749	10.0	1158894.0	2.64749	Y
4	IC 410-370594/16	2.0	4.736166	10.0	1146421.0	2.368083	Y
5	IC 410-370594/17	5.0	14.162559	10.0	1147138.0	2.832512	Y
6	ICIS 410-370594/18	10.0	27.930905	10.0	1160831.0	2.79309	Y
7	IC 410-370594/19	25.0	69.490083	10.0	1202079.0	2.779603	Y



Calibration

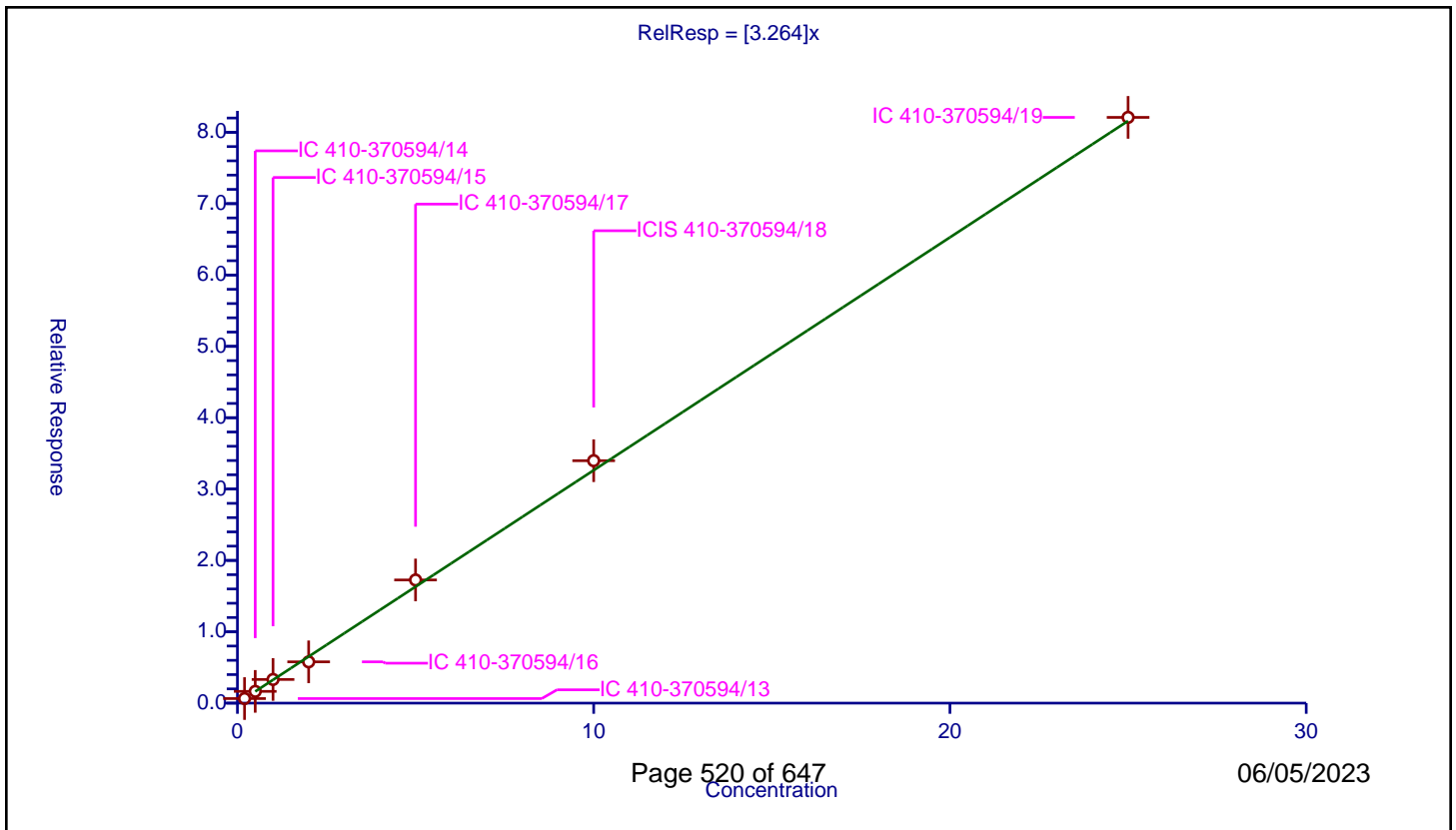
/ sec-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.264

Error Coefficients	
Standard Error:	4420000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.641707	10.0	1137326.0	3.208535	Y
2	IC 410-370594/14	0.5	1.647307	10.0	1130639.0	3.294615	Y
3	IC 410-370594/15	1.0	3.316326	10.0	1158894.0	3.316326	Y
4	IC 410-370594/16	2.0	5.786504	10.0	1146421.0	2.893252	Y
5	IC 410-370594/17	5.0	17.260678	10.0	1147138.0	3.452136	Y
6	ICIS 410-370594/18	10.0	33.977547	10.0	1160831.0	3.397755	Y
7	IC 410-370594/19	25.0	82.088041	10.0	1202079.0	3.283522	Y



Calibration

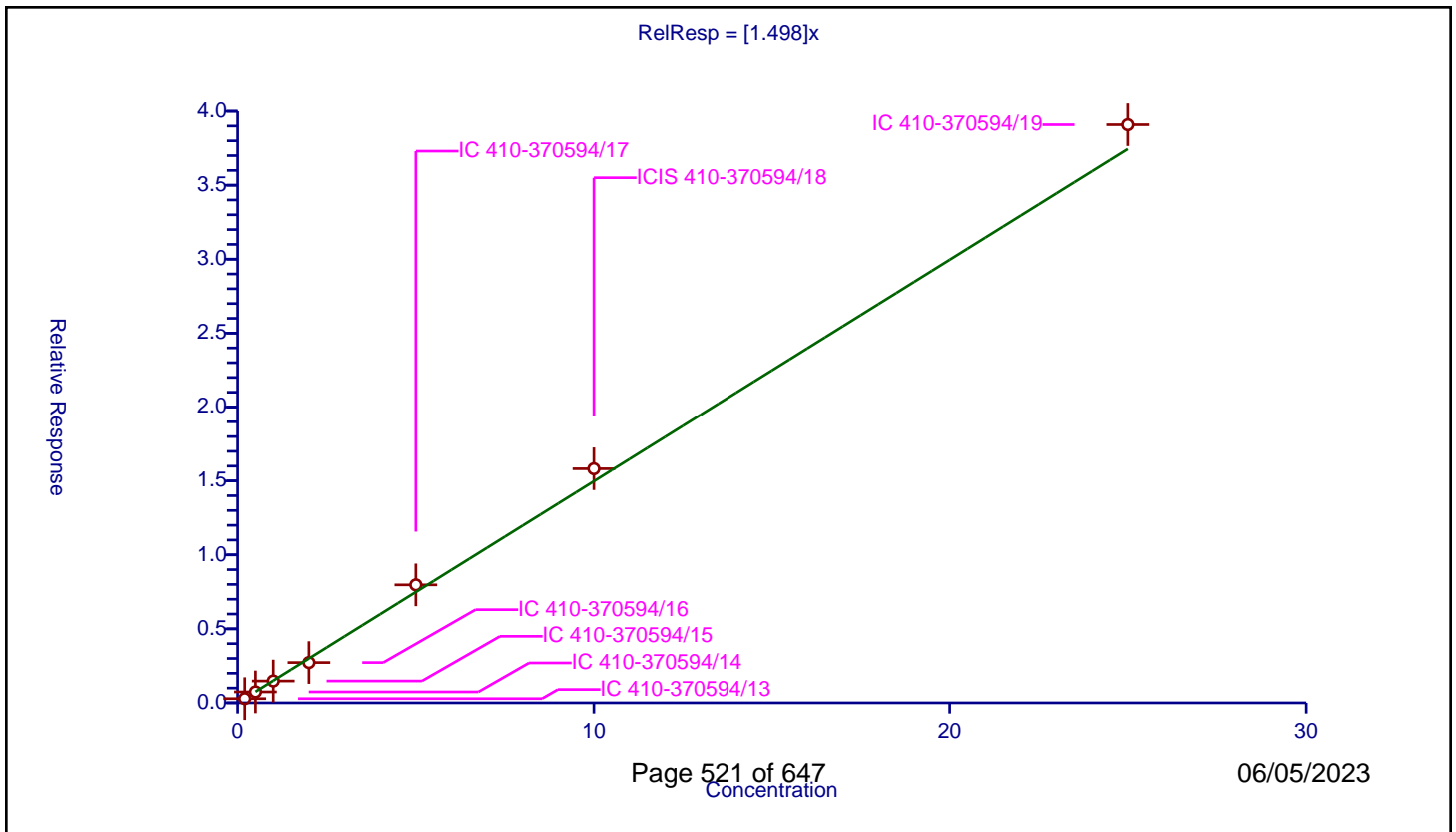
/ 1,3-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.498

Error Coefficients	
Standard Error:	2100000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.285582	10.0	1137326.0	1.427911	Y
2	IC 410-370594/14	0.5	0.739555	10.0	1130639.0	1.47911	Y
3	IC 410-370594/15	1.0	1.476347	10.0	1158894.0	1.476347	Y
4	IC 410-370594/16	2.0	2.722892	10.0	1146421.0	1.361446	Y
5	IC 410-370594/17	5.0	7.972153	10.0	1147138.0	1.594431	Y
6	ICIS 410-370594/18	10.0	15.823681	10.0	1160831.0	1.582368	Y
7	IC 410-370594/19	25.0	39.091233	10.0	1202079.0	1.563649	Y



Calibration

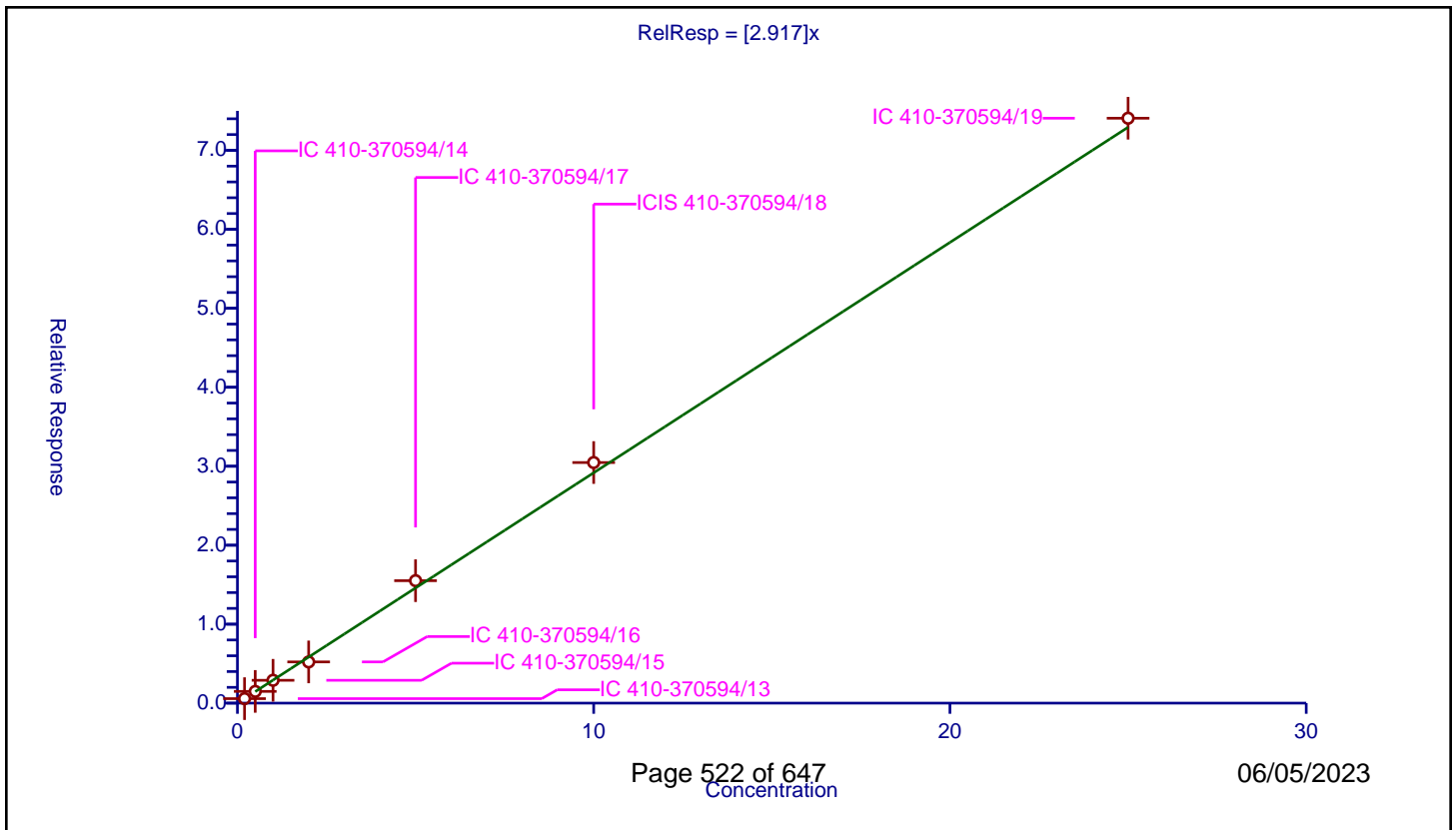
/ 4-Isopropyltoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.917

Error Coefficients	
Standard Error:	3990000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.567498	10.0	1137326.0	2.837489	Y
2	IC 410-370594/14	0.5	1.484815	10.0	1130639.0	2.96963	Y
3	IC 410-370594/15	1.0	2.891429	10.0	1158894.0	2.891429	Y
4	IC 410-370594/16	2.0	5.220429	10.0	1146421.0	2.610215	Y
5	IC 410-370594/17	5.0	15.508012	10.0	1147138.0	3.101602	Y
6	ICIS 410-370594/18	10.0	30.468285	10.0	1160831.0	3.046829	Y
7	IC 410-370594/19	25.0	74.071796	10.0	1202079.0	2.962872	Y



Calibration

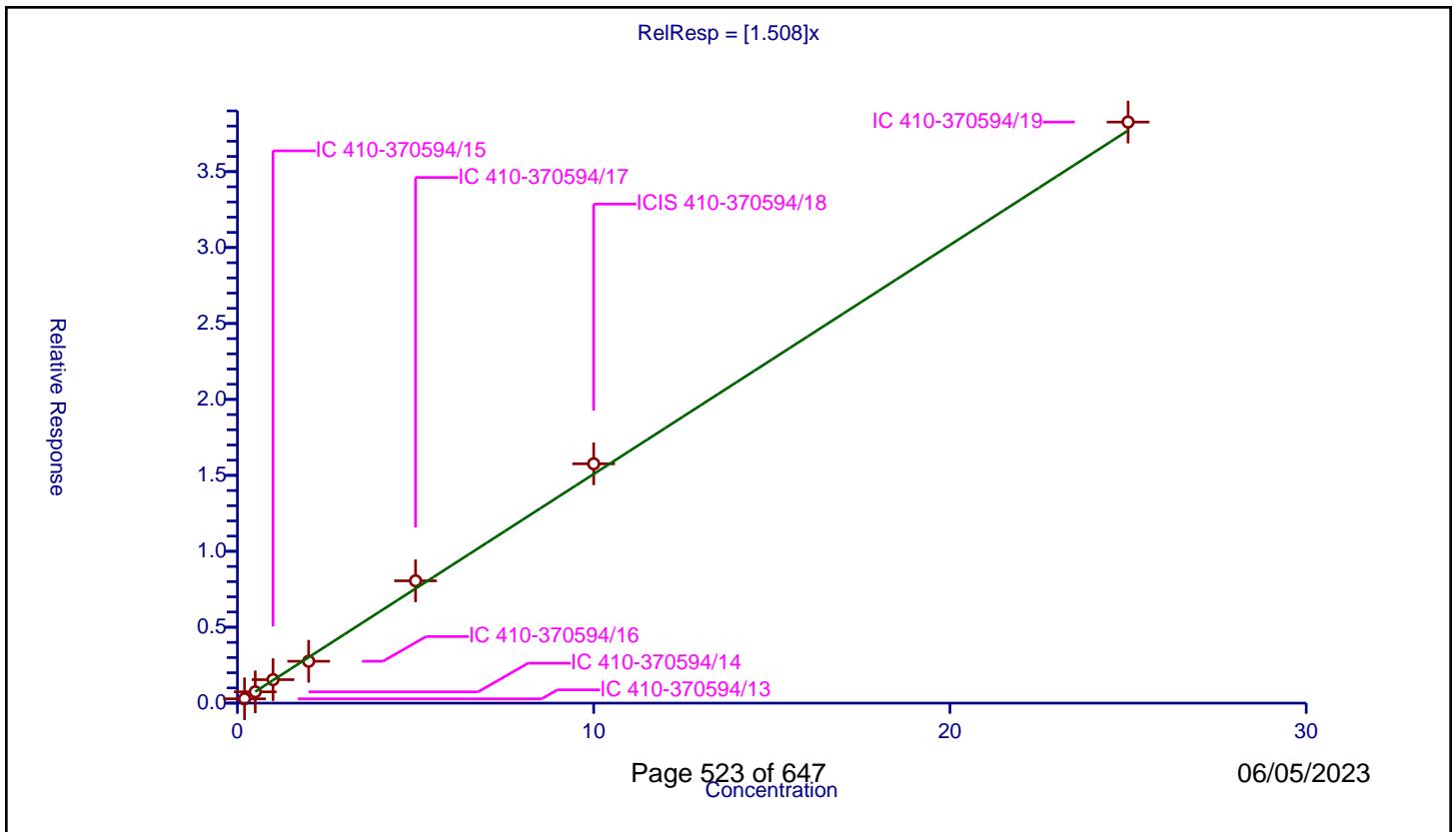
/ 1,4-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.508

Error Coefficients	
Standard Error:	2060000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.285485	10.0	1137326.0	1.427427	Y
2	IC 410-370594/14	0.5	0.74442	10.0	1130639.0	1.488839	Y
3	IC 410-370594/15	1.0	1.545439	10.0	1158894.0	1.545439	Y
4	IC 410-370594/16	2.0	2.758315	10.0	1146421.0	1.379157	Y
5	IC 410-370594/17	5.0	8.055343	10.0	1147138.0	1.611069	Y
6	ICIS 410-370594/18	10.0	15.759667	10.0	1160831.0	1.575967	Y
7	IC 410-370594/19	25.0	38.263825	10.0	1202079.0	1.530553	Y



Calibration

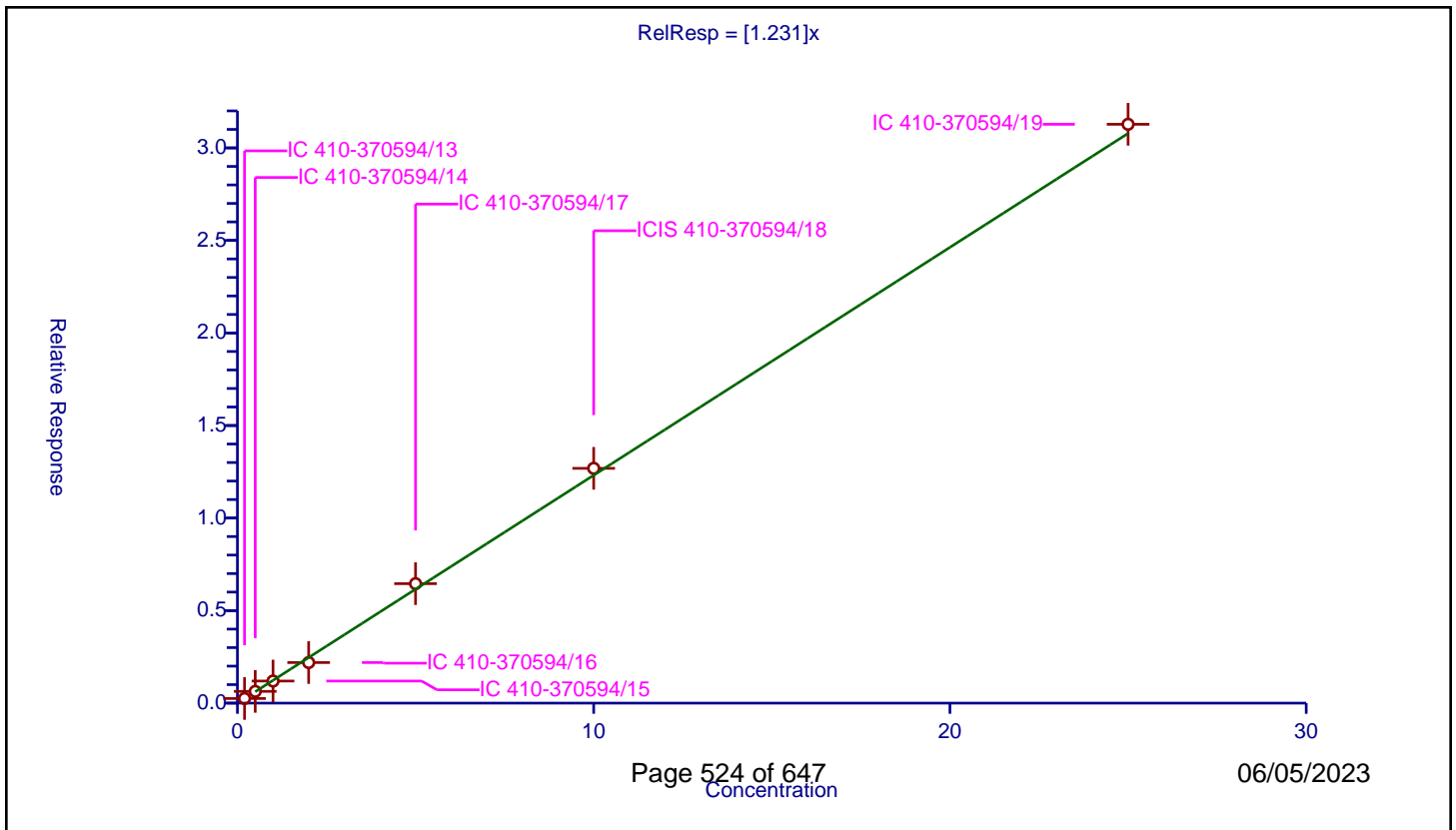
/ 1,2,3-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.231

Error Coefficients	
Standard Error:	1680000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.249779	10.0	1137326.0	1.248894	Y
2	IC 410-370594/14	0.5	0.635172	10.0	1130639.0	1.270344	Y
3	IC 410-370594/15	1.0	1.193276	10.0	1158894.0	1.193276	Y
4	IC 410-370594/16	2.0	2.192711	10.0	1146421.0	1.096356	Y
5	IC 410-370594/17	5.0	6.454742	10.0	1147138.0	1.290948	Y
6	ICIS 410-370594/18	10.0	12.686782	10.0	1160831.0	1.268678	Y
7	IC 410-370594/19	25.0	31.27544	10.0	1202079.0	1.251018	Y



Calibration

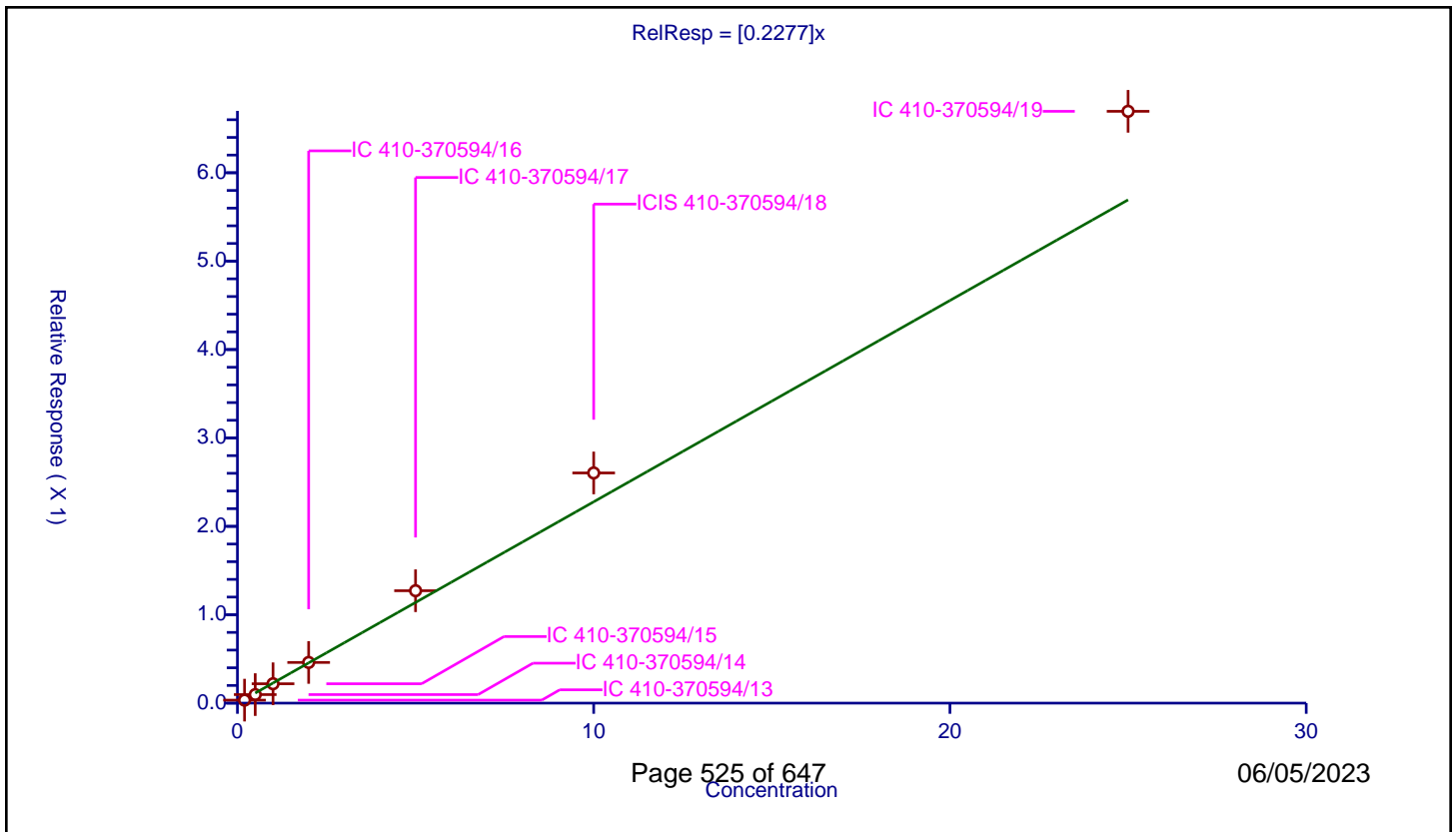
/ Benzyl chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2277

Error Coefficients	
Standard Error:	357000
Relative Standard Error:	16.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.033851	10.0	1137326.0	0.169257	Y
2	IC 410-370594/14	0.5	0.096556	10.0	1130639.0	0.193112	Y
3	IC 410-370594/15	1.0	0.219269	10.0	1158894.0	0.219269	Y
4	IC 410-370594/16	2.0	0.46011	10.0	1146421.0	0.230055	Y
5	IC 410-370594/17	5.0	1.271652	10.0	1147138.0	0.25433	Y
6	ICIS 410-370594/18	10.0	2.604083	10.0	1160831.0	0.260408	Y
7	IC 410-370594/19	25.0	6.695234	10.0	1202079.0	0.267809	Y



Calibration

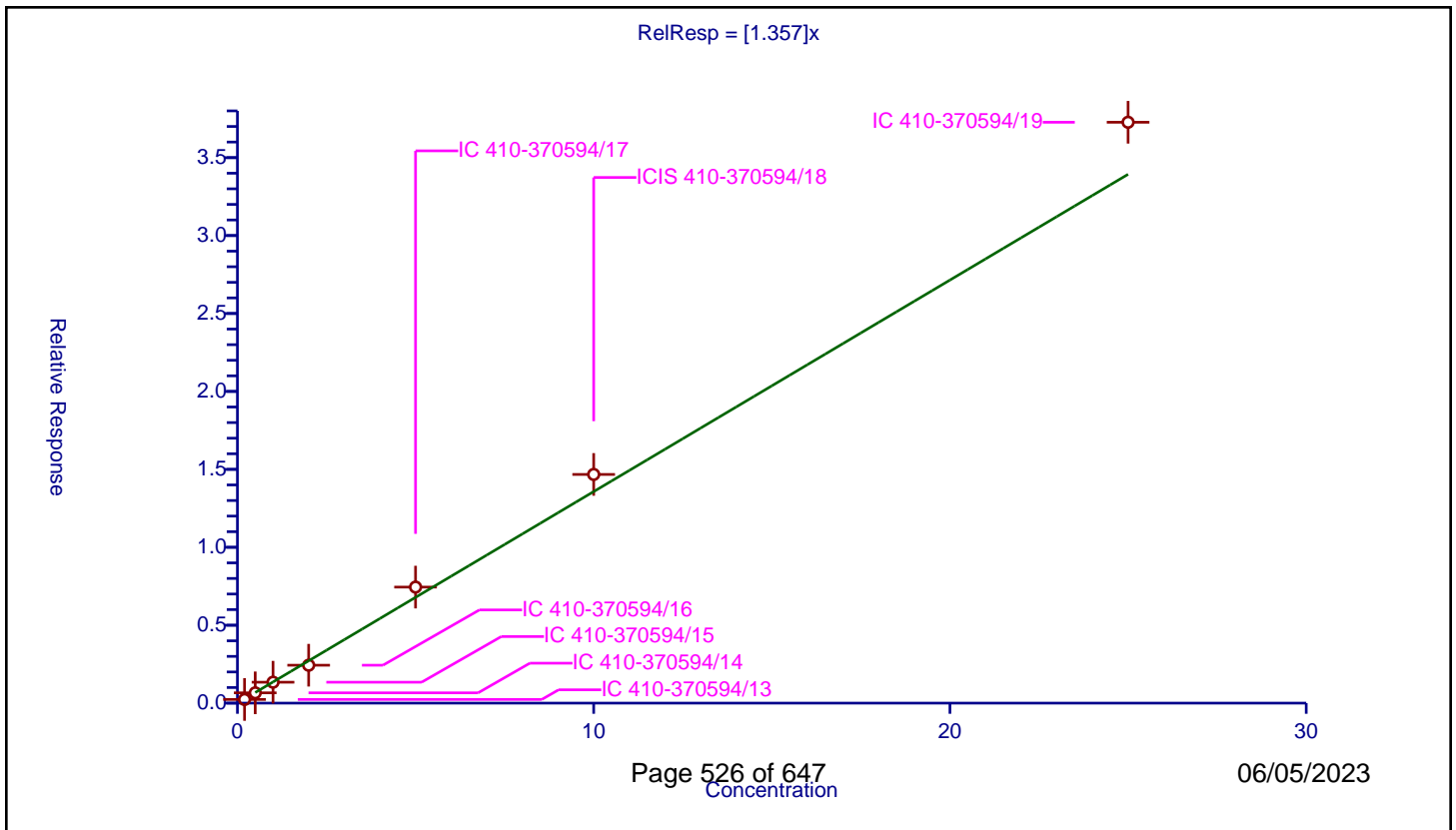
/ n-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.357

Error Coefficients	
Standard Error:	1990000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.234726	10.0	1137326.0	1.17363	Y
2	IC 410-370594/14	0.5	0.660803	10.0	1130639.0	1.321607	Y
3	IC 410-370594/15	1.0	1.342081	10.0	1158894.0	1.342081	Y
4	IC 410-370594/16	2.0	2.432544	10.0	1146421.0	1.216272	Y
5	IC 410-370594/17	5.0	7.445477	10.0	1147138.0	1.489095	Y
6	ICIS 410-370594/18	10.0	14.673833	10.0	1160831.0	1.467383	Y
7	IC 410-370594/19	25.0	37.270046	10.0	1202079.0	1.490802	Y



Calibration

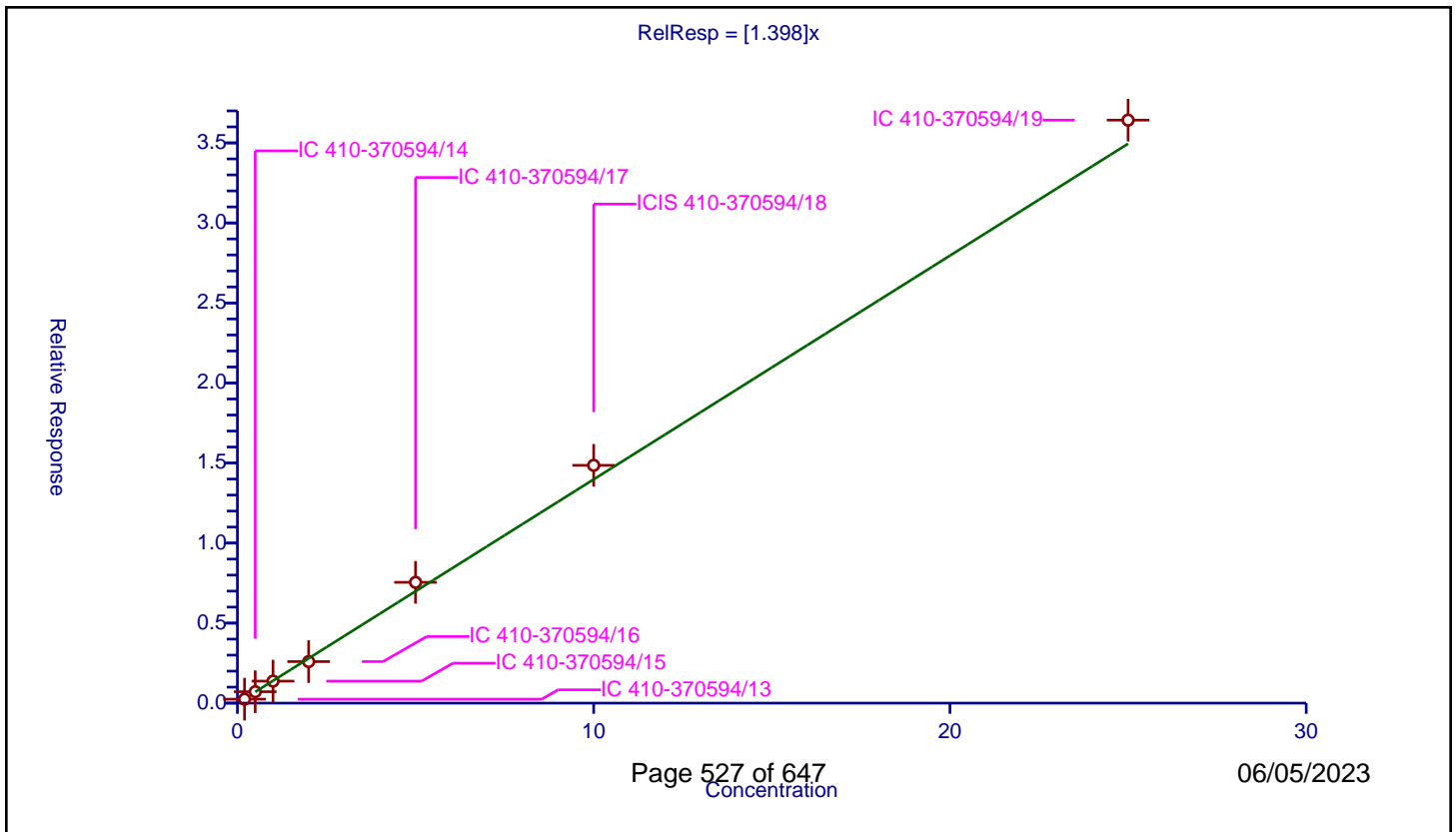
/ 1,2-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.398

Error Coefficients	
Standard Error:	1960000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.24715	10.0	1137326.0	1.235749	Y
2	IC 410-370594/14	0.5	0.712429	10.0	1130639.0	1.424858	Y
3	IC 410-370594/15	1.0	1.37582	10.0	1158894.0	1.37582	Y
4	IC 410-370594/16	2.0	2.594588	10.0	1146421.0	1.297294	Y
5	IC 410-370594/17	5.0	7.545945	10.0	1147138.0	1.509189	Y
6	ICIS 410-370594/18	10.0	14.857098	10.0	1160831.0	1.48571	Y
7	IC 410-370594/19	25.0	36.42249	10.0	1202079.0	1.4569	Y



Calibration

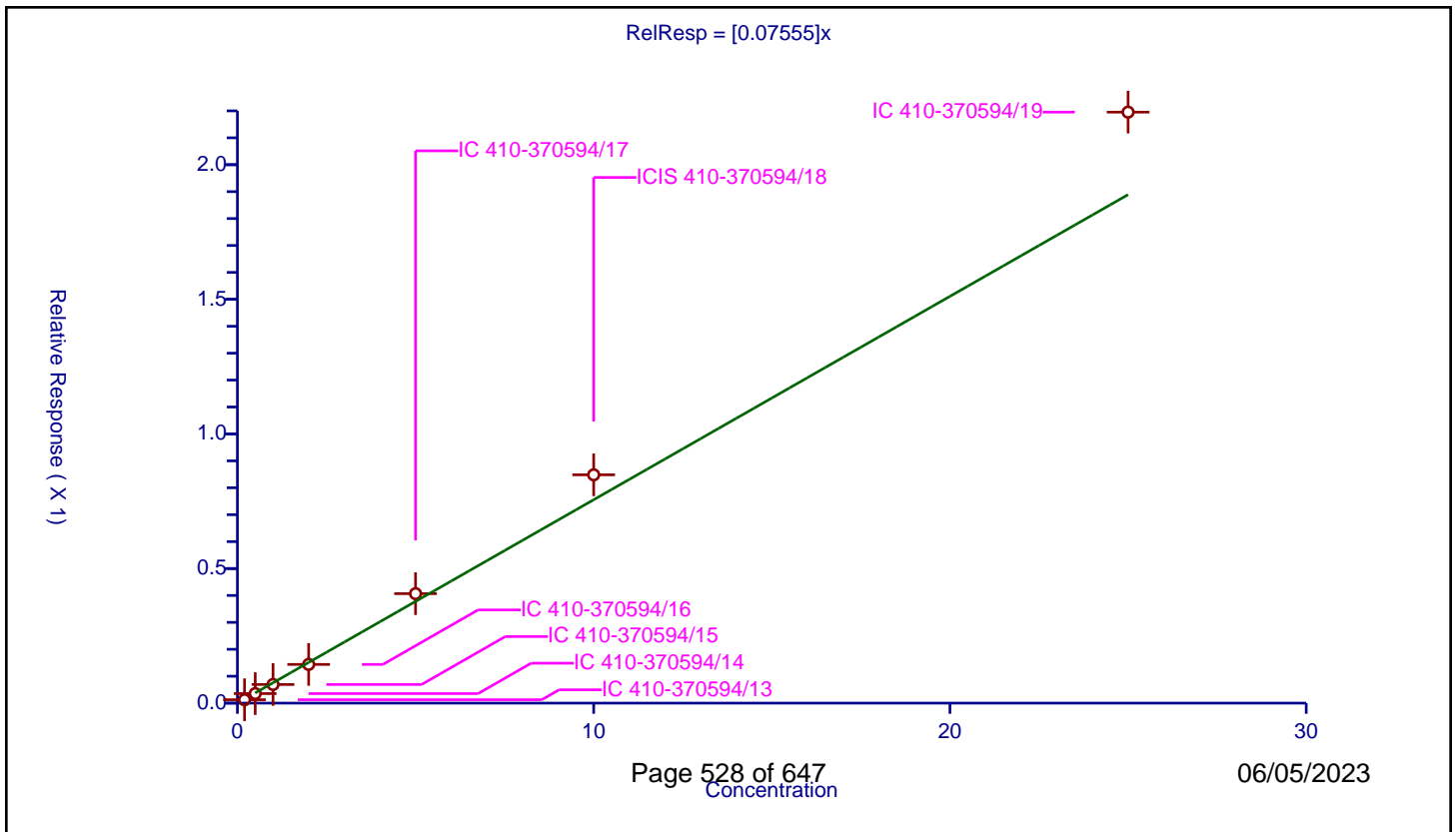
/ 1,2-Dibromo-3-Chloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.07555

Error Coefficients	
Standard Error:	117000
Relative Standard Error:	12.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.012565	10.0	1137326.0	0.062823	Y
2	IC 410-370594/14	0.5	0.035484	10.0	1130639.0	0.070969	Y
3	IC 410-370594/15	1.0	0.069221	10.0	1158894.0	0.069221	Y
4	IC 410-370594/16	2.0	0.143795	10.0	1146421.0	0.071898	Y
5	IC 410-370594/17	5.0	0.40669	10.0	1147138.0	0.081338	Y
6	ICIS 410-370594/18	10.0	0.848091	10.0	1160831.0	0.084809	Y
7	IC 410-370594/19	25.0	2.195338	10.0	1202079.0	0.087814	Y



Calibration

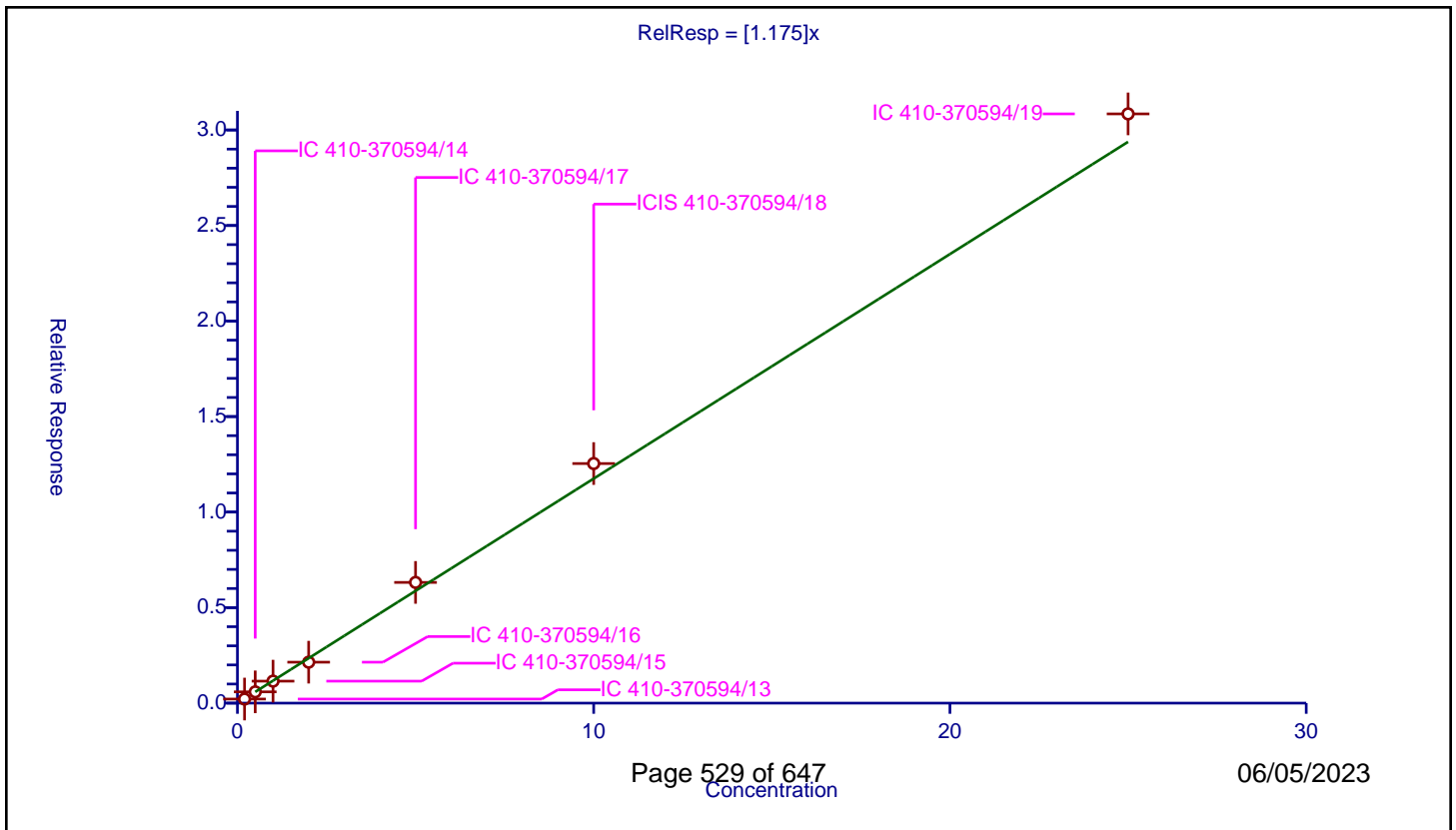
/ 1,3,5-Trichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.175

Error Coefficients	
Standard Error:	1660000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.214231	10.0	1137326.0	1.071153	Y
2	IC 410-370594/14	0.5	0.590356	10.0	1130639.0	1.180713	Y
3	IC 410-370594/15	1.0	1.151046	10.0	1158894.0	1.151046	Y
4	IC 410-370594/16	2.0	2.143619	10.0	1146421.0	1.07181	Y
5	IC 410-370594/17	5.0	6.319275	10.0	1147138.0	1.263855	Y
6	ICIS 410-370594/18	10.0	12.540206	10.0	1160831.0	1.254021	Y
7	IC 410-370594/19	25.0	30.842715	10.0	1202079.0	1.233709	Y



Calibration

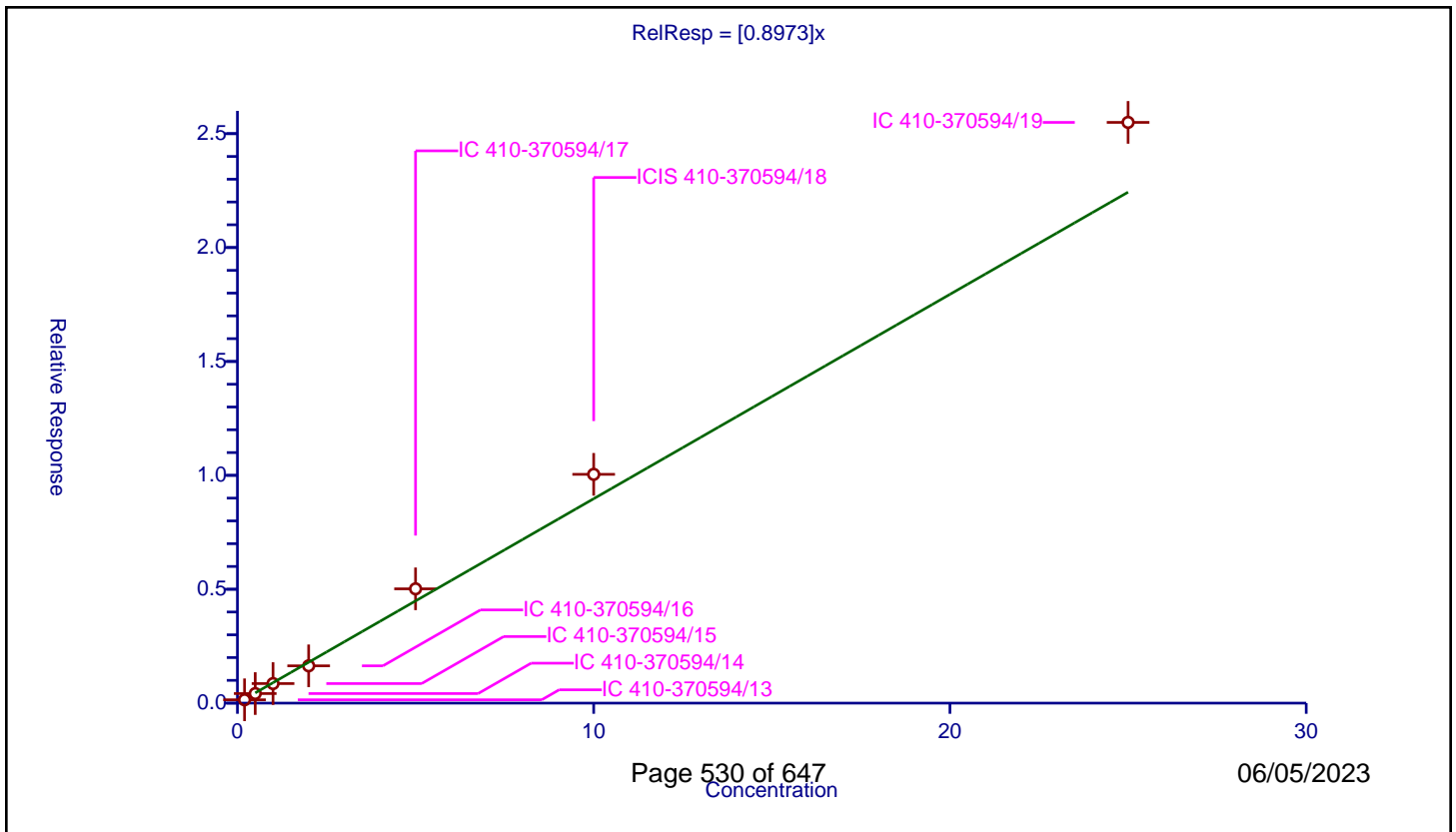
/ 1,2,4-Trichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8973

Error Coefficients	
Standard Error:	1360000
Relative Standard Error:	12.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.147143	10.0	1137326.0	0.735717	Y
2	IC 410-370594/14	0.5	0.420108	10.0	1130639.0	0.840215	Y
3	IC 410-370594/15	1.0	0.858525	10.0	1158894.0	0.858525	Y
4	IC 410-370594/16	2.0	1.637784	10.0	1146421.0	0.818892	Y
5	IC 410-370594/17	5.0	5.018263	10.0	1147138.0	1.003653	Y
6	ICIS 410-370594/18	10.0	10.043891	10.0	1160831.0	1.004389	Y
7	IC 410-370594/19	25.0	25.494988	10.0	1202079.0	1.0198	Y



Calibration

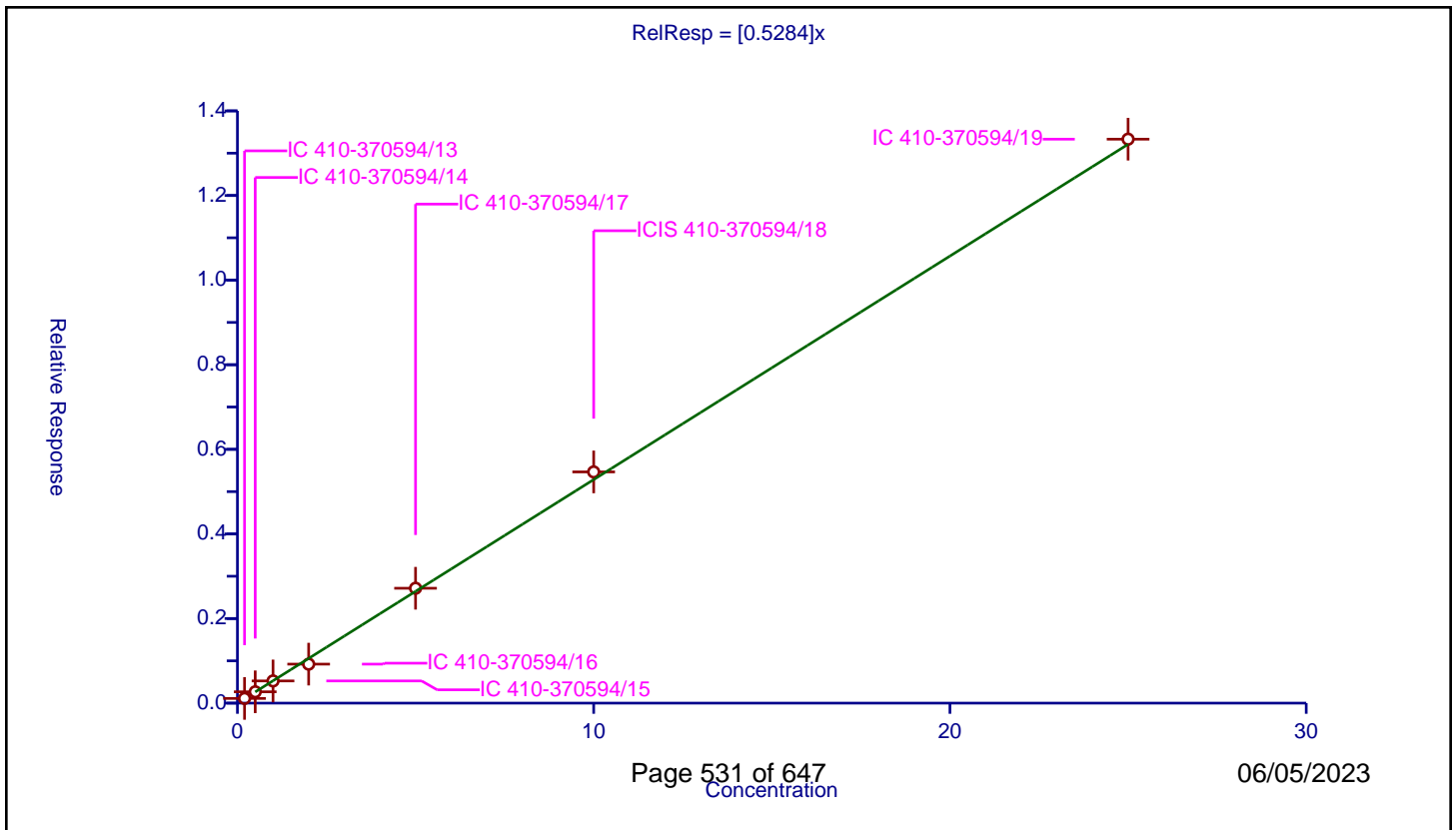
/ Hexachlorobutadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5284

Error Coefficients	
Standard Error:	717000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.111024	10.0	1137326.0	0.555118	Y
2	IC 410-370594/14	0.5	0.26761	10.0	1130639.0	0.535219	Y
3	IC 410-370594/15	1.0	0.524474	10.0	1158894.0	0.524474	Y
4	IC 410-370594/16	2.0	0.92207	10.0	1146421.0	0.461035	Y
5	IC 410-370594/17	5.0	2.715907	10.0	1147138.0	0.543181	Y
6	ICIS 410-370594/18	10.0	5.465955	10.0	1160831.0	0.546595	Y
7	IC 410-370594/19	25.0	13.331187	10.0	1202079.0	0.533247	Y



Calibration

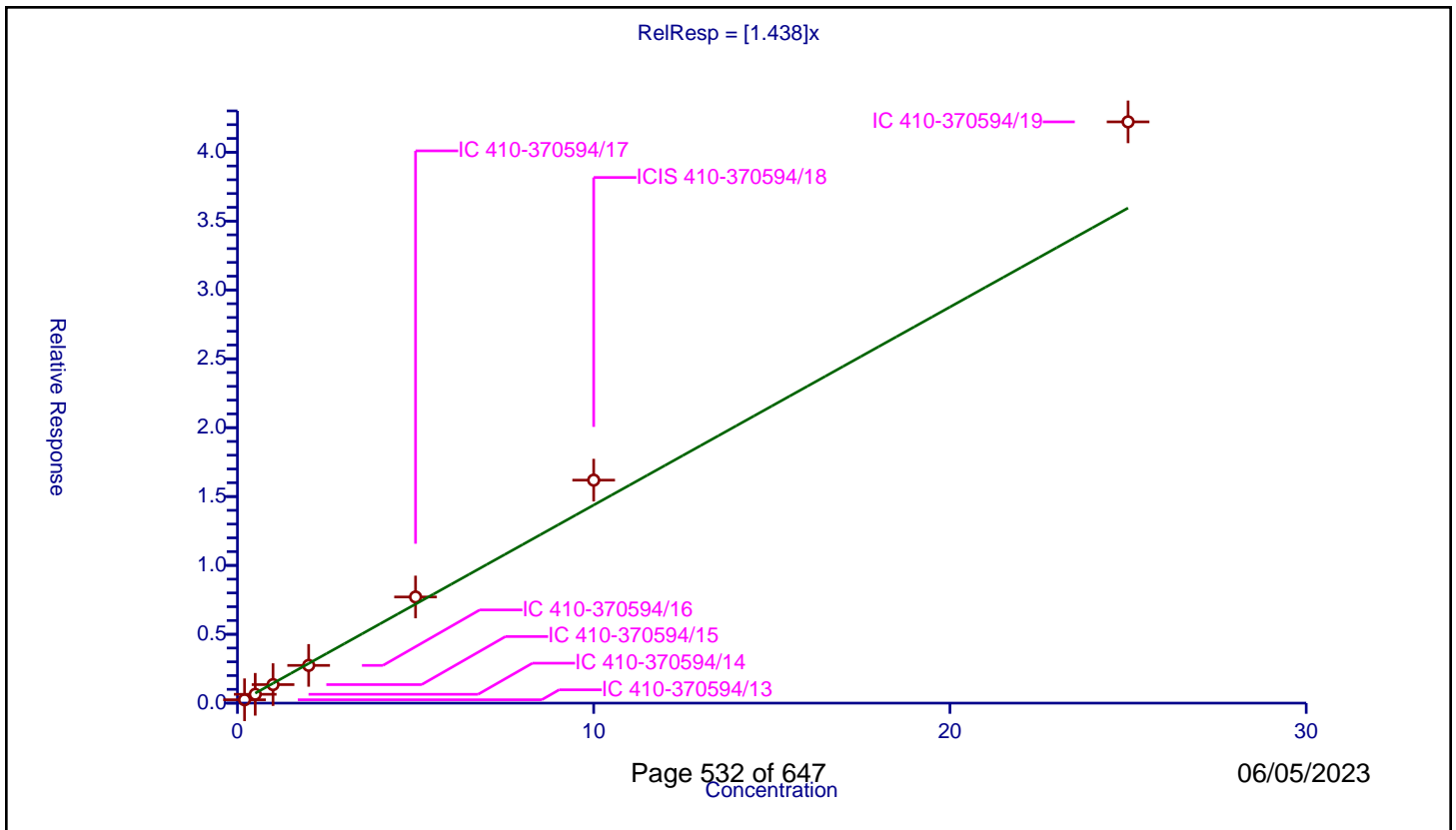
/ Naphthalene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.438

Error Coefficients	
Standard Error:	2240000
Relative Standard Error:	12.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.244336	10.0	1137326.0	1.221681	Y
2	IC 410-370594/14	0.5	0.640549	10.0	1130639.0	1.281099	Y
3	IC 410-370594/15	1.0	1.344868	10.0	1158894.0	1.344868	Y
4	IC 410-370594/16	2.0	2.7395	10.0	1146421.0	1.36975	Y
5	IC 410-370594/17	5.0	7.70678	10.0	1147138.0	1.541356	Y
6	ICIS 410-370594/18	10.0	16.190186	10.0	1160831.0	1.619019	Y
7	IC 410-370594/19	25.0	42.203125	10.0	1202079.0	1.688125	Y



Calibration

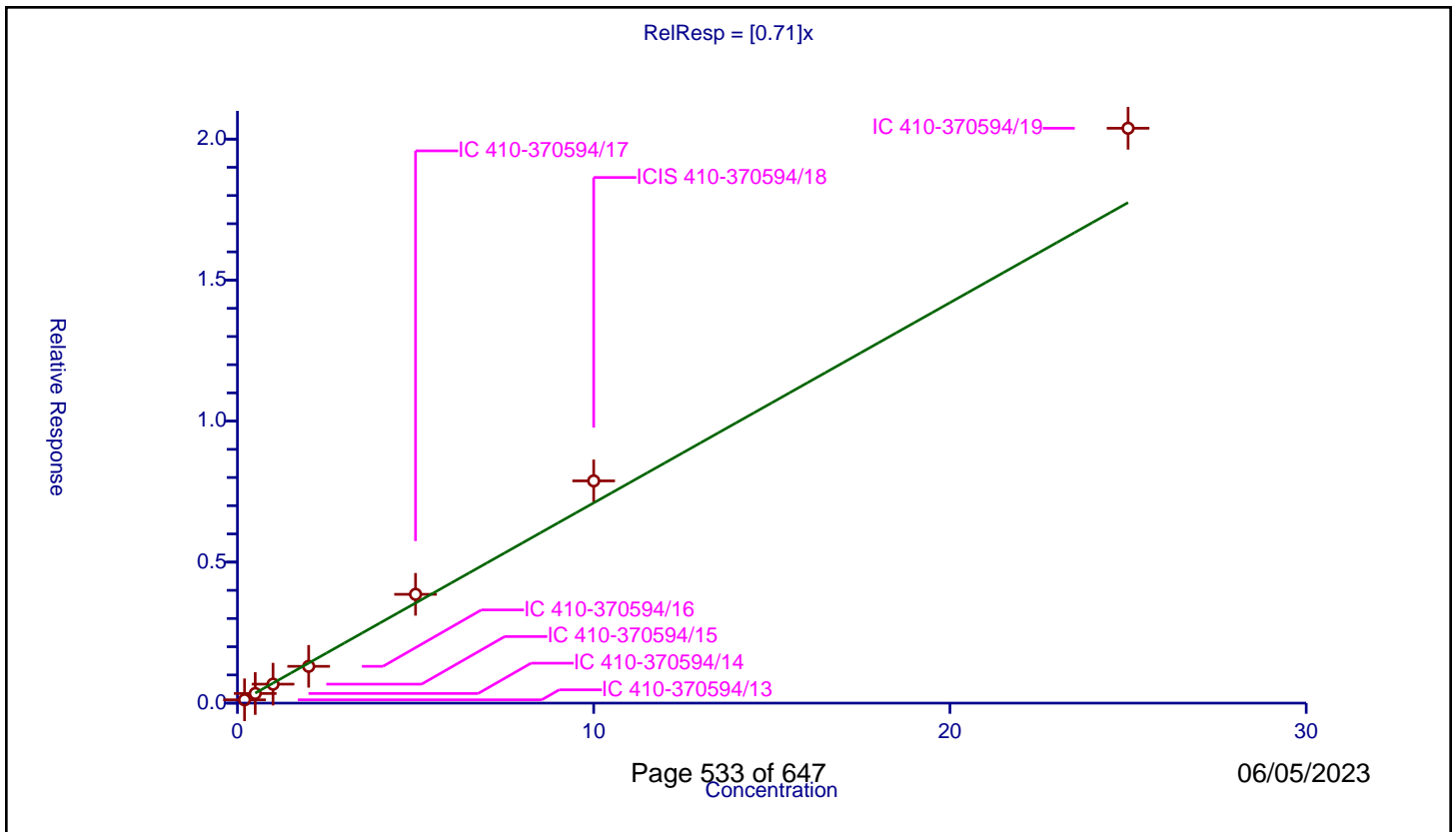
/ 1,2,3-Trichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.71

Error Coefficients	
Standard Error:	1090000
Relative Standard Error:	11.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-370594/13	0.2	0.117521	10.0	1137326.0	0.587606	Y
2	IC 410-370594/14	0.5	0.340958	10.0	1130639.0	0.681915	Y
3	IC 410-370594/15	1.0	0.672952	10.0	1158894.0	0.672952	Y
4	IC 410-370594/16	2.0	1.304625	10.0	1146421.0	0.652313	Y
5	IC 410-370594/17	5.0	3.858402	10.0	1147138.0	0.77168	Y
6	ICIS 410-370594/18	10.0	7.880734	10.0	1160831.0	0.788073	Y
7	IC 410-370594/19	25.0	20.384276	10.0	1202079.0	0.815371	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-127761-1

SDG No.: _____

Lab Sample ID: ICV 410-370594/21 Calibration Date: 05/01/2023 21:58

Instrument ID: 10193 Calib Start Date: 05/01/2023 19:00

GC Column: R-624SilMS 30m ID: 0.25 (mm) Calib End Date: 05/01/2023 21:14

Lab File ID: CY01X20.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	0.3746	0.3662	0.1000	4.89	5.00	-2.2	30.0
Chloromethane	Ave	0.4394	0.4218	0.1000	4.80	5.00	-4.0	30.0
Vinyl chloride	Ave	0.4200	0.4228	0.1000	5.03	5.00	0.7	30.0
1,3-Butadiene	Ave	0.3904	0.3861		4.95	5.00	-1.1	30.0
Bromomethane	Ave	0.2862	0.2864	0.1000	5.00	5.00	0.1	30.0
Chloroethane	Ave	0.2468	0.2471	0.1000	5.01	5.00	0.1	30.0
Dichlorofluoromethane	Ave	0.5817	0.6002		5.16	5.00	3.2	30.0
Trichlorofluoromethane	Ave	0.5028	0.4743	0.1000	4.72	5.00	-5.7	30.0
Ethyl ether	Ave	0.2597	0.2456		4.72	4.99	-5.4	30.0
Freon 123a	Ave	0.3571	0.3780		5.29	5.00	5.8	30.0
Acrolein	Ave	2.095	2.052		36.7	37.5	-2.1	30.0
1,1-Dichloroethene	Ave	0.2530	0.2789	0.1000	5.51	5.00	10.2	30.0
Acetone	Ave	2.383	2.173	0.1000	57.0	62.5	-8.8	30.0
Freon 113	Ave	0.2569	0.2722	0.1000	5.30	5.00	5.9	30.0
Methyl iodide	Ave	0.5282	0.5456		5.16	5.00	3.3	30.0
Ethyl bromide	Ave	0.2549	0.2126		4.11	4.93	-16.6	30.0
Carbon disulfide	Ave	0.8798	0.9327	0.1000	5.30	5.00	6.0	30.0
Methyl acetate	Ave	7.642	6.785	0.1000	4.44	5.00	-11.2	30.0
Allyl chloride	Ave	0.4543	0.4733		5.21	5.00	4.2	30.0
Methylene Chloride	Ave	0.3030	0.3194	0.1000	5.27	5.00	5.4	30.0
t-Butyl alcohol	Ave	0.9587	0.9347		48.8	50.0	-2.5	30.0
Acrylonitrile	Ave	3.452	3.227		23.4	25.0	-6.5	30.0
Methyl tert-butyl ether	Ave	0.8749	0.8761	0.1000	5.01	5.00	0.1	30.0
trans-1,2-Dichloroethene	Ave	0.3094	0.3228	0.1000	5.22	5.00	4.4	30.0
n-Hexane	Ave	0.3928	0.4147		5.28	5.00	5.6	30.0
1,1-Dichloroethane	Ave	0.5599	0.5735	0.2000	5.12	5.00	2.4	30.0
di-Isopropyl ether	Ave	1.017	1.016		4.99	5.00	-0.1	30.0
2-Chloro-1,3-butadiene	Ave	0.4540	0.4817		5.31	5.00	6.1	30.0
Ethyl t-butyl ether	Ave	1.025	1.044		5.09	5.00	1.8	30.0
2-Butanone (MEK)	Ave	4.723	4.560	0.1000	60.3	62.5	-3.4	30.0
cis-1,2-Dichloroethene	Ave	0.3382	0.3673	0.1000	5.43	5.00	8.6	30.0
2,2-Dichloropropane	Ave	0.4957	0.5184		5.23	5.00	4.6	30.0
Propionitrile	Ave	1.032	1.075		39.1	37.5	4.2	30.0
Methacrylonitrile	Ave	5.067	4.868		36.0	37.5	-3.9	30.0
Bromochloromethane	Ave	0.1575	0.1667		5.29	5.00	5.9	30.0
Tetrahydrofuran	Ave	1.510	1.420		23.5	25.0	-6.0	30.0
Chloroform	Ave	0.5600	0.5691	0.2000	5.08	5.00	1.6	30.0
1,1,1-Trichloroethane	Ave	0.4938	0.5227	0.1000	5.29	5.00	5.9	30.0
Cyclohexane	Ave	0.5017	0.5354	0.1000	5.34	5.00	6.7	30.0
Carbon tetrachloride	Ave	0.4227	0.4481	0.1000	5.30	5.00	6.0	30.0
1,1-Dichloropropene	Ave	0.4184	0.4591		5.49	5.00	9.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-127761-1

SDG No.: _____

Lab Sample ID: ICV 410-370594/21 Calibration Date: 05/01/2023 21:58

Instrument ID: 10193 Calib Start Date: 05/01/2023 19:00

GC Column: R-624SilMS 30m ID: 0.25 (mm) Calib End Date: 05/01/2023 21:14

Lab File ID: CY01X20.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
Isobutyl alcohol	Ave	0.2421	0.2347		121	125	-3.0	30.0
Benzene	Ave	1.278	1.358	0.5000	5.31	5.00	6.3	30.0
1,2-Dichloroethane	Ave	0.3691	0.3564	0.1000	4.83	5.00	-3.5	30.0
t-Amyl methyl ether	Ave	0.9457	0.9805		5.18	5.00	3.7	30.0
n-Heptane	Ave	0.4106	0.4266		5.19	5.00	3.9	30.0
Trichloroethene	Ave	0.3389	0.3502	0.2000	5.17	5.00	3.3	30.0
n-Butanol	Lin1		0.1662		204	250	-18.6	30.0
Methylcyclohexane	Ave	0.5436	0.5883	0.1000	5.41	5.00	8.2	30.0
1,2-Dichloropropane	Ave	0.3354	0.3425	0.1000	5.11	5.00	2.1	30.0
Dibromomethane	Ave	0.1658	0.1694		5.11	5.00	2.2	30.0
Methyl methacrylate	Ave	9.96	9.402		4.72	5.00	-5.6	30.0
1,4-Dioxane	Ave	0.0530	0.0561	0.0050	132	125	5.9	30.0
Bromodichloromethane	Ave	0.4233	0.4229	0.2000	5.00	5.00	-0.0	30.0
2-Nitropropane	Ave	3.183	2.986		4.69	5.00	-6.2	30.0
1-Bromo-2-chloroethane	Ave	0.3521	0.3683		5.23	5.00	4.6	30.0
cis-1,3-Dichloropropene	Ave	0.5193	0.5272	0.2000	5.08	5.00	1.5	30.0
4-Methyl-2-pentanone (MIBK)	Ave	13.09	12.47	0.1000	59.5	62.5	-4.7	30.0
Toluene	Ave	0.9210	0.9496	0.4000	5.16	5.00	3.1	30.0
trans-1,3-Dichloropropene	Ave	0.4606	0.4840	0.1000	5.25	5.00	5.1	30.0
Ethyl methacrylate	Ave	0.3729	0.3914		5.25	5.00	5.0	30.0
1,1,2-Trichloroethane	Ave	0.2739	0.2678	0.1000	4.89	5.00	-2.2	30.0
Tetrachloroethene	Ave	0.4348	0.4534	0.2000	5.21	5.00	4.3	30.0
1,3-Dichloropropane	Ave	0.4412	0.4519		5.12	5.00	2.4	30.0
2-Hexanone	Ave	8.531	8.719	0.1000	63.9	62.5	2.2	30.0
Dibromochloromethane	Ave	0.3448	0.3508		5.09	5.00	1.7	30.0
1,2-Dibromoethane (EDB)	Ave	0.2579	0.2595	0.1000	5.03	5.00	0.6	30.0
1-Chlorohexane	Ave	0.5253	0.5104		4.86	5.00	-2.8	30.0
Chlorobenzene	Ave	1.096	1.098	0.5000	5.01	5.00	0.2	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3808	0.3948		5.18	5.00	3.7	30.0
Ethylbenzene	Ave	1.777	1.849	0.1000	5.20	5.00	4.0	30.0
m&p-Xylene	Ave	0.7192	0.7441	0.1000	10.3	10.0	3.5	30.0
o-Xylene	Ave	0.7124	0.7384	0.3000	5.18	5.00	3.7	30.0
Styrene	Ave	1.163	1.234	0.3000	5.31	5.00	6.1	30.0
Bromoform	Ave	0.2176	0.2142	0.1000	4.92	5.00	-1.6	30.0
Isopropylbenzene	Ave	1.829	1.931	0.1000	5.28	5.00	5.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5598	0.5598	0.3000	5.00	5.00	0.0	30.0
Bromobenzene	Ave	0.7712	0.8041		5.21	5.00	4.3	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1344	0.1426		26.5	25.0	6.1	30.0
1,2,3-Trichloropropane	Ave	0.1472	0.1489		5.06	5.00	1.1	30.0
N-Propylbenzene	Ave	3.434	3.622		5.27	5.00	5.5	30.0
2-Chlorotoluene	Ave	0.7420	0.7770		5.24	5.00	4.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-127761-1
 SDG No.: _____
 Lab Sample ID: ICV 410-370594/21 Calibration Date: 05/01/2023 21:58
 Instrument ID: 10193 Calib Start Date: 05/01/2023 19:00
 GC Column: R-624SilMS 30m ID: 0.25 (mm) Calib End Date: 05/01/2023 21:14
 Lab File ID: CY01X20.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3,5-Trimethylbenzene	Ave	2.576	2.701		5.24	5.00	4.9	30.0
4-Chlorotoluene	Ave	0.7652	0.7954		5.20	5.00	3.9	30.0
tert-Butylbenzene	Ave	0.5916	0.6297		5.32	5.00	6.4	30.0
Pentachloroethane	Ave	0.4829	0.5376		5.57	5.00	11.3	30.0
1,2,4-Trimethylbenzene	Ave	2.657	2.779		5.23	5.00	4.6	30.0
sec-Butylbenzene	Ave	3.264	3.495		5.35	5.00	7.1	30.0
1,3-Dichlorobenzene	Ave	1.498	1.550	0.6000	5.17	5.00	3.5	30.0
p-Isopropyltoluene	Ave	2.917	3.075		5.27	5.00	5.4	30.0
1,4-Dichlorobenzene	Ave	1.508	1.628	0.5000	5.40	5.00	7.9	30.0
1,2,3-Trimethylbenzene	Ave	1.231	1.229		4.99	5.00	-0.2	30.0
Benzyl chloride	Ave	0.2277	0.2484		5.45	5.00	9.1	30.0
n-Butylbenzene	Ave	1.357	1.449		5.34	5.00	6.8	30.0
1,2-Dichlorobenzene	Ave	1.398	1.449	0.4000	5.18	5.00	3.7	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0756	0.0747	0.0500	4.94	5.00	-1.1	30.0
1,3,5-Trichlorobenzene	Ave	1.175	1.205		5.13	5.00	2.5	30.0
1,2,4-Trichlorobenzene	Ave	0.8973	0.9753	0.2000	5.43	5.00	8.7	30.0
Hexachlorobutadiene	Ave	0.5284	0.5633		5.33	5.00	6.6	30.0
Naphthalene	Ave	1.438	1.511		5.25	5.00	5.1	30.0
1,2,3-Trichlorobenzene	Ave	0.7100	0.7540		5.31	5.00	6.2	30.0
Dibromofluoromethane (Surr)	Ave	0.2604	0.2585		9.93	10.0	-0.7	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0513	0.0538		10.5	10.0	4.8	30.0
Toluene-d8 (Surr)	Ave	1.194	1.179		9.87	10.0	-1.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.5105	0.5060		9.91	10.0	-0.9	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X20.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 01-May-2023 21:58:30 ALS Bottle#: 20 Worklist Smp#: 21
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0082854-021
 Misc. Info.: ICV
 Operator ID: knk41612 Instrument ID: 10193
 Sublist:
 Method: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 03-May-2023 11:15:25 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1650

First Level Reviewer: DVW2

Date: 02-May-2023 07:55:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.727	1.733	-0.006	99	352840	5.00	4.89	Ma
5 Chloromethane	50	1.898	1.898	0.000	99	406387	5.00	4.80	
6 Vinyl chloride	62	1.989	1.995	-0.006	98	407327	5.00	5.03	
7 Butadiene	39	2.008	2.008	0.000	92	371971	5.00	4.95	
9 Bromomethane	94	2.282	2.282	0.000	91	275973	5.00	5.00	
10 Chloroethane	64	2.337	2.337	0.000	100	238062	5.00	5.01	
11 Dichlorofluoromethane	67	2.550	2.556	-0.006	97	578293	5.00	5.16	
12 Trichlorofluoromethane	101	2.605	2.605	0.000	98	456996	5.00	4.72	
13 Pentane	43	2.605	2.611	-0.006	97	442835	5.00	5.57	
14 Ethyl ether	59	2.788	2.788	0.000	92	236085	4.99	4.72	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.879	2.879	0.000	93	364196	5.00	5.29	
17 Acrolein	56	2.934	2.934	0.000	99	253678	37.5	36.7	
18 1,1-Dichloroethene	96	3.050	3.050	0.000	98	268693	5.00	5.51	
20 Acetone	43	3.080	3.074	0.006	99	447920	62.5	57.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.093	3.093	0.000	92	262206	5.00	5.30	
22 Iodomethane	142	3.215	3.215	0.000	98	525646	5.00	5.16	
24 Isopropyl alcohol	45	3.202	3.227	-0.025	31	51307	37.5	33.7	
23 Ethyl bromide	108	3.233	3.239	-0.006	98	201821	4.93	4.11	
25 Carbon disulfide	76	3.300	3.300	0.000	100	898588	5.00	5.30	
26 Methyl acetate	43	3.428	3.428	0.000	37	111858	5.00	4.44	
29 3-Chloro-1-propene	41	3.440	3.446	-0.006	90	455999	5.00	5.21	
30 Methylene Chloride	84	3.605	3.605	0.000	91	307773	5.00	5.27	
* 31 t-Butyl alcohol-d10 (IS)	65	3.672	3.641	0.031	93	164868	50.0	50.0	
32 2-Methyl-2-propanol	59	3.757	3.769	-0.012	94	154106	50.0	48.8	
33 Acrylonitrile	53	3.910	3.910	0.000	99	266051	25.0	23.4	
34 Methyl tert-butyl ether	73	3.952	3.952	0.000	93	844042	5.00	5.01	
35 trans-1,2-Dichloroethene	96	3.952	3.952	0.000	99	311051	5.00	5.22	
36 Hexane	57	4.342	4.349	-0.007	92	399540	5.00	5.28	
37 1,1-Dichloroethane	63	4.580	4.586	-0.006	96	552523	5.00	5.12	
39 Isopropyl ether	45	4.653	4.653	0.000	94	978562	5.00	4.99	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.696	4.696	0.000	90	464096	5.00	5.31	
41 Tert-butyl ethyl ether	59	5.196	5.208	-0.012	97	1005491	5.00	5.09	
42 2-Butanone (MEK)	43	5.415	5.409	0.006	99	939742	62.5	60.3	
43 cis-1,2-Dichloroethene	96	5.446	5.446	0.000	82	353900	5.00	5.43	
44 2,2-Dichloropropane	77	5.452	5.452	0.000	86	499460	5.00	5.23	
45 Propionitrile	54	5.531	5.507	0.024	97	132890	37.5	39.1	
47 Methacrylonitrile	67	5.720	5.720	0.000	92	601883	37.5	36.0	
48 Chlorobromomethane	128	5.781	5.781	0.000	91	160583	5.00	5.29	
49 Tetrahydrofuran	71	5.787	5.787	0.000	72	117034	25.0	23.5	
50 Chloroform	83	5.940	5.940	0.000	93	548261	5.00	5.08	
53 1,1,1-Trichloroethane	97	6.159	6.159	0.000	97	503643	5.00	5.29	
\$ 54 Dibromofluoromethane (Surr)	113	6.165	6.165	0.000	94	498197	10.0	9.93	
55 Cyclohexane	56	6.251	6.257	-0.006	90	515808	5.00	5.34	
56 Carbon tetrachloride	117	6.373	6.373	0.000	97	431681	5.00	5.30	
57 1,1-Dichloropropene	75	6.379	6.379	0.000	96	442303	5.00	5.49	
58 Isobutyl alcohol	41	6.629	6.604	0.025	84	96749	125.0	121.2	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.616	0.000	99	103649	10.0	10.5	
60 Benzene	78	6.647	6.647	0.000	97	1308585	5.00	5.31	
61 1,2-Dichloroethane	62	6.720	6.720	0.000	97	343333	5.00	4.83	
64 Tert-amyl methyl ether	73	6.860	6.860	0.000	98	944700	5.00	5.18	
* 65 Fluorobenzene (IS)	96	7.068	7.068	0.000	99	1926910	10.0	10.0	
66 n-Heptane	43	7.080	7.086	-0.006	92	410964	5.00	5.19	
67 n-Butanol	56	7.561	7.531	0.030	59	137037	250.0	203.6	
68 Trichloroethene	95	7.555	7.555	0.000	97	337398	5.00	5.17	
69 Methylcyclohexane	83	7.860	7.860	0.000	90	566791	5.00	5.41	
70 1,2-Dichloropropane	63	7.891	7.891	0.000	97	330005	5.00	5.11	
71 2-ethoxy-2-methyl butane	87	7.921	7.927	-0.006	93	527165	5.00	5.08	
72 Dibromomethane	93	8.012	8.006	0.006	87	163256	5.00	5.11	
73 Methyl methacrylate	69	8.012	8.006	0.006	91	155003	5.00	4.72	
74 1,4-Dioxane	88	8.025	8.012	0.013	30	23111	125.0	132.3	
76 Dichlorobromomethane	83	8.256	8.256	0.000	99	407468	5.00	5.00	
77 2-Nitropropane	41	8.543	8.543	0.000	98	49234	5.00	4.69	
78 1-Bromo-2-chloroethane	63	8.653	8.653	0.000	99	354826	5.00	5.23	
80 cis-1,3-Dichloropropene	75	8.829	8.829	0.000	96	507923	5.00	5.08	
82 4-Methyl-2-pentanone (MIBK)	43	9.037	9.037	0.000	96	2569662	62.5	59.5	
\$ 83 Toluene-d8 (Surr)	98	9.165	9.165	0.000	93	2136096	10.0	9.87	
84 Toluene	92	9.250	9.250	0.000	98	860327	5.00	5.16	
85 trans-1,3-Dichloropropene	75	9.555	9.555	0.000	93	438467	5.00	5.25	
86 Ethyl methacrylate	69	9.640	9.634	0.006	89	354578	5.00	5.25	
87 1,1,2-Trichloroethane	97	9.774	9.768	0.006	91	242662	5.00	4.89	
88 Tetrachloroethene	166	9.854	9.854	0.000	98	410746	5.00	5.21	
89 1,3-Dichloropropane	76	9.945	9.945	0.000	91	409431	5.00	5.12	
106 2-Hexanone	43	10.024	10.018	0.006	96	1796917	62.5	63.9	
108 Chlorodibromomethane	129	10.171	10.171	0.000	90	317806	5.00	5.09	
110 Ethylene Dibromide	107	10.280	10.280	0.000	99	235072	5.00	5.03	
* 111 Chlorobenzene-d5 (IS)	117	10.744	10.744	0.000	85	1812010	10.0	10.0	
112 1-Chlorohexane	91	10.768	10.768	0.000	98	462433	5.00	4.86	
113 Chlorobenzene	112	10.768	10.774	-0.006	97	995179	5.00	5.01	
114 1,1,1,2-Tetrachloroethane	131	10.859	10.859	0.000	96	357668	5.00	5.18	
115 Ethylbenzene	91	10.866	10.866	0.000	98	1674837	5.00	5.20	
116 m-Xylene & p-Xylene	106	10.994	10.987	0.007	97	1348316	10.0	10.3	
118 o-Xylene	106	11.335	11.335	0.000	96	669014	5.00	5.18	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 Styrene	104	11.353	11.353	0.000	95	1118458	5.00	5.31	
120 Bromoform	173	11.506	11.506	0.000	97	194089	5.00	4.92	
121 Isopropylbenzene	105	11.646	11.646	0.000	96	1749924	5.00	5.28	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.792	0.000	93	916928	10.0	9.91	
125 Bromobenzene	156	11.908	11.908	0.000	94	445248	5.00	5.21	
126 1,1,2,2-Tetrachloroethane	83	11.908	11.908	0.000	93	309998	5.00	5.00	
127 trans-1,4-Dichloro-2-butene	53	11.939	11.932	0.007	90	394704	25.0	26.5	
128 1,2,3-Trichloropropane	110	11.951	11.951	0.000	79	82441	5.00	5.06	
129 N-Propylbenzene	91	11.987	11.987	0.000	99	2005544	5.00	5.27	
130 2-Chlorotoluene	126	12.060	12.060	0.000	97	430241	5.00	5.24	
131 1,3,5-Trimethylbenzene	105	12.134	12.134	0.000	94	1495942	5.00	5.24	
132 4-Chlorotoluene	126	12.158	12.158	0.000	97	440458	5.00	5.20	
133 tert-Butylbenzene	134	12.377	12.377	0.000	93	348705	5.00	5.32	
134 Pentachloroethane	167	12.408	12.408	0.000	89	297713	5.00	5.57	
135 1,2,4-Trimethylbenzene	105	12.420	12.420	0.000	98	1538705	5.00	5.23	
136 sec-Butylbenzene	105	12.542	12.542	0.000	94	1935387	5.00	5.35	
137 1,3-Dichlorobenzene	146	12.640	12.640	0.000	99	858268	5.00	5.17	
138 4-Isopropyltoluene	119	12.658	12.658	0.000	97	1702634	5.00	5.27	
* 139 1,4-Dichlorobenzene-d4	152	12.701	12.701	0.000	93	1107496	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.719	12.719	0.000	95	901632	5.00	5.40	
141 1,2,3-Trimethylbenzene	120	12.731	12.731	0.000	98	680508	5.00	4.99	
142 Benzyl chloride	126	12.798	12.798	0.000	98	137551	5.00	5.45	
145 p-Diethylbenzene	119	12.932	12.932	0.000	94	1051776	5.00	5.29	
143 n-Butylbenzene	92	12.957	12.957	0.000	97	802628	5.00	5.34	
144 1,2-Dichlorobenzene	146	12.981	12.981	0.000	99	802589	5.00	5.18	
148 1,2-Dibromo-3-Chloropropane	155	13.542	13.536	0.006	89	41376	5.00	4.94	
149 1,3,5-Trichlorobenzene	180	13.664	13.664	0.000	98	667310	5.00	5.13	
150 1,2,4-Trichlorobenzene	180	14.097	14.091	0.006	94	540054	5.00	5.43	
151 Hexachlorobutadiene	225	14.176	14.176	0.000	96	311936	5.00	5.33	
152 Naphthalene	128	14.273	14.273	0.000	97	836718	5.00	5.25	
153 1,2,3-Trichlorobenzene	180	14.420	14.420	0.000	96	417539	5.00	5.31	
154 2-Methylnaphthalene	142	15.017	15.017	0.000	92	336874	5.00	4.35	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LCS_VOC#1_00107	Amount Added: 12.50	Units: uL	
MSV_QC_Gas826_00137	Amount Added: 12.50	Units: uL	
MSV_LCS_EE_00005	Amount Added: 12.50	Units: uL	
LCS_ETBR_00005	Amount Added: 12.50	Units: uL	
MSV_LCS_ACROL_00111	Amount Added: 12.50	Units: uL	
MSV_LCS_Penta_00028	Amount Added: 12.50	Units: uL	
MSV_HP25_ISSS_00068	Amount Added: 1.00	Units: uL	Run Reagent

Data File: \\chromf\Lancaster\ChromData\10193\20230501-82854.b\CY01X20.D

Injection Date: 01-May-2023 21:58:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: ICV

Worklist Smp#: 21

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

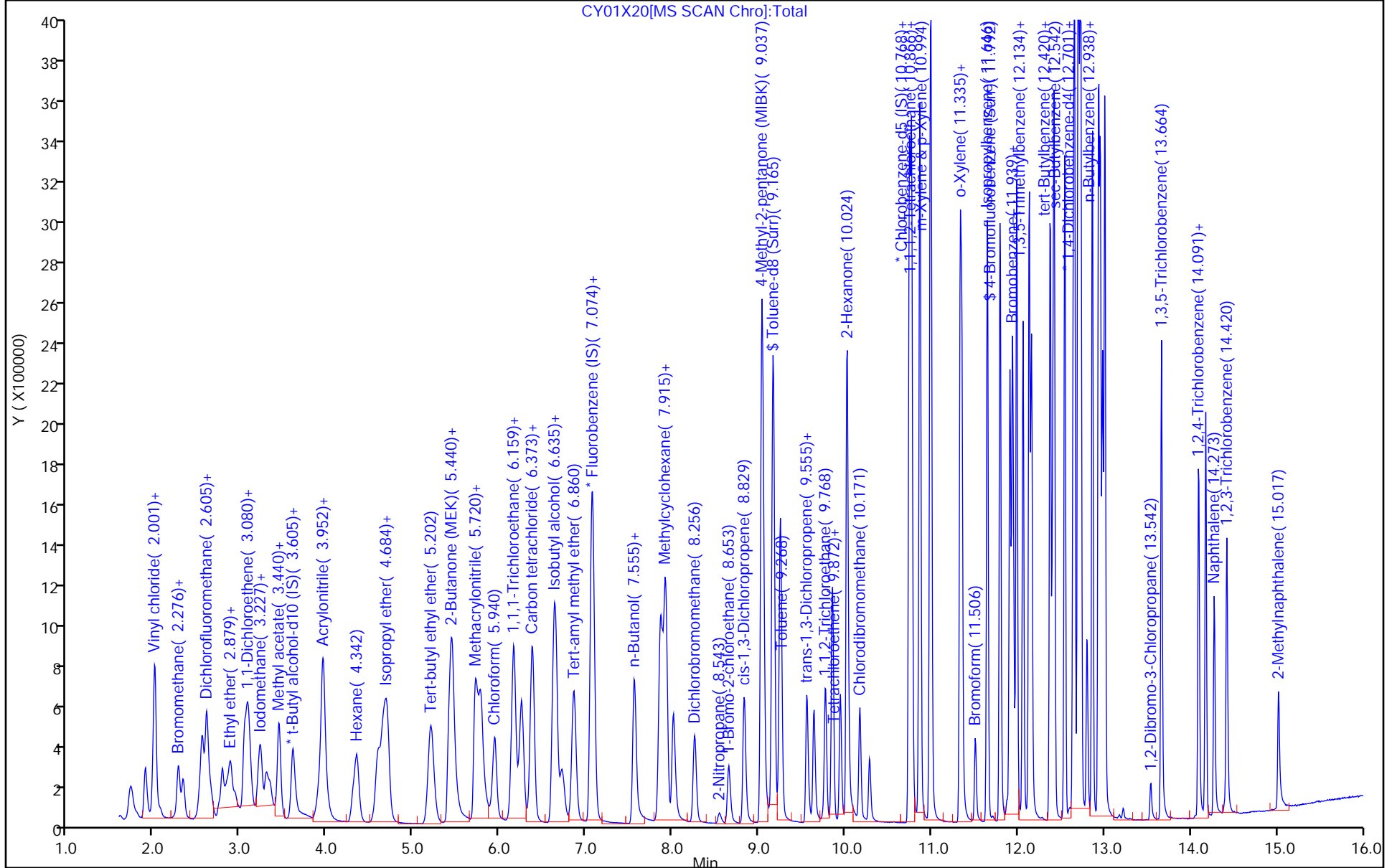
ALS Bottle#: 20

Method: MSV_10193_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

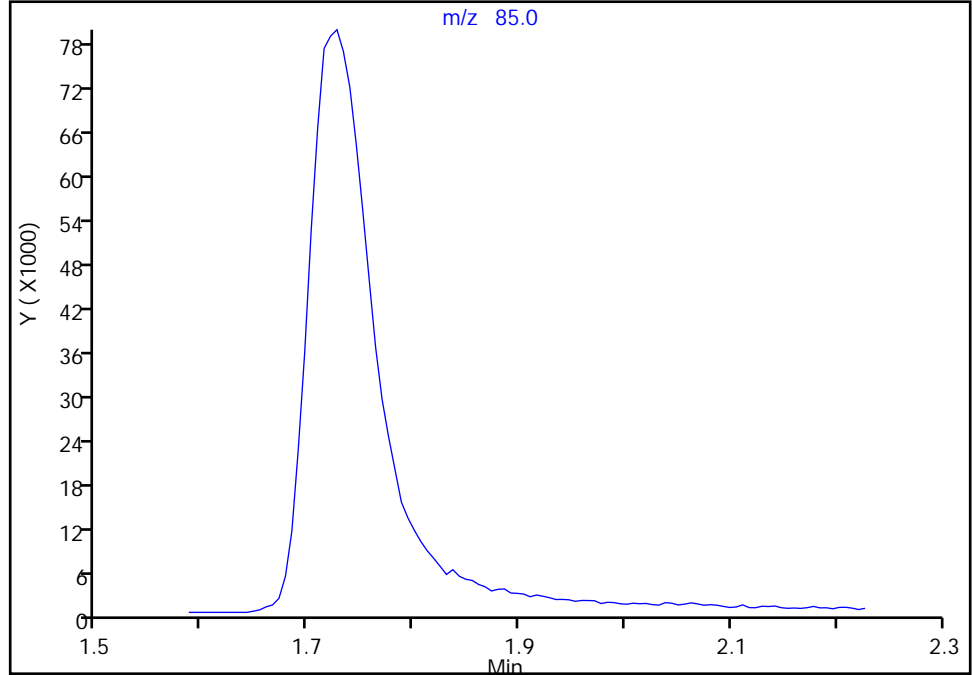
Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X20.D
Injection Date: 01-May-2023 21:58:30 Instrument ID: 10193
Lims ID: ICV
Client ID:
Operator ID: knk41612 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

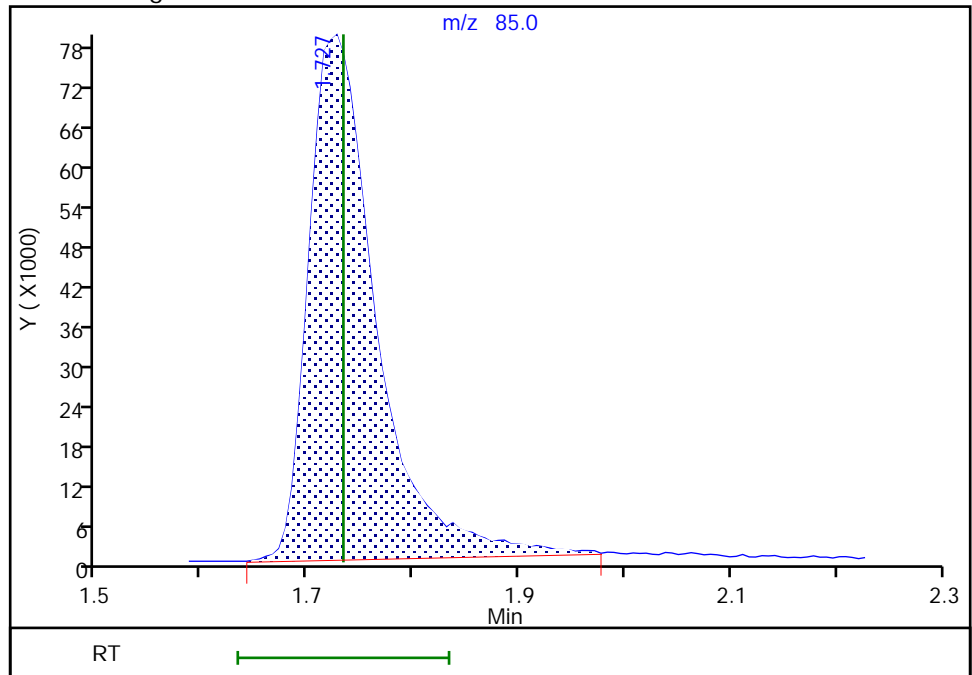
Signal: 1

Not Detected
Expected RT: 1.73

Processing Integration Results



Manual Integration Results



RT: 1.73
Area: 352840
Amount: 4.888687
Amount Units: ug/l

Reviewer: DVW2, 02-May-2023 07:54:38 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-127761-1

SDG No.: _____

Lab Sample ID: CCVIS 410-381658/3 Calibration Date: 05/31/2023 21:08

Instrument ID: 10193 Calib Start Date: 05/01/2023 19:00

GC Column: R-624SilMS 30m ID: 0.25 (mm) Calib End Date: 05/01/2023 21:14

Lab File ID: CY31X02.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	0.3746	0.3182	0.1000	8.49	10.0	-15.1	20.0
Chloromethane	Ave	0.4394	0.4487	0.1000	10.2	10.0	2.1	20.0
Vinyl chloride	Ave	0.4200	0.3802	0.1000	9.05	10.0	-9.5	20.0
1,3-Butadiene	Ave	0.3904	0.6806		17.4	10.0	74.3*	20.0
Bromomethane	Ave	0.2862	0.2531	0.1000	8.84	10.0	-11.6	20.0
Chloroethane	Ave	0.2468	0.2267	0.1000	9.19	10.0	-8.1	20.0
Dichlorofluoromethane	Ave	0.5817	0.5276		9.07	10.0	-9.3	20.0
Trichlorofluoromethane	Ave	0.5028	0.3817	0.1000	7.59	10.0	-24.1*	20.0
Ethyl ether	Ave	0.2597	0.2561		9.86	10.0	-1.4	20.0
Freon 123a	Ave	0.3571	0.3386		9.48	10.0	-5.2	20.0
Acrolein	Ave	2.095	2.335		557	500	11.5	20.0
1,1-Dichloroethene	Ave	0.2530	0.2397	0.1000	9.47	10.0	-5.3	20.0
Acetone	Ave	2.383	2.569	0.1000	108	100	7.8	20.0
Freon 113	Ave	0.2569	0.2357	0.1000	9.18	10.0	-8.2	20.0
Methyl iodide	Ave	0.5282	0.4903		9.28	10.0	-7.2	20.0
Ethyl bromide	Ave	0.2549	0.2336		9.16	9.99	-8.4	20.0
Carbon disulfide	Ave	0.8798	0.8698	0.1000	9.89	10.0	-1.1	20.0
Methyl acetate	Ave	7.642	10.29	0.1000	13.5	10.0	34.6*	20.0
Allyl chloride	Ave	0.4543	0.4839		10.7	10.0	6.5	20.0
Methylene Chloride	Ave	0.3030	0.3041	0.1000	10.0	10.0	0.4	20.0
t-Butyl alcohol	Ave	0.9587	0.9227		192	200	-3.8	20.0
Acrylonitrile	Ave	3.452	3.693		26.7	25.0	7.0	20.0
Methyl tert-butyl ether	Ave	0.8749	0.8401	0.1000	9.60	10.0	-4.0	20.0
trans-1,2-Dichloroethene	Ave	0.3094	0.2927	0.1000	9.46	10.0	-5.4	20.0
n-Hexane	Ave	0.3928	0.3858		9.82	10.0	-1.8	20.0
1,1-Dichloroethane	Ave	0.5599	0.5521	0.2000	9.86	10.0	-1.4	20.0
di-Isopropyl ether	Ave	1.017	1.092		10.7	10.0	7.4	20.0
2-Chloro-1,3-butadiene	Ave	0.4540	0.4346		9.57	10.0	-4.3	20.0
Ethyl t-butyl ether	Ave	1.025	1.007		9.83	10.0	-1.7	20.0
2-Butanone (MEK)	Ave	4.723	5.148	0.1000	109	100	9.0	20.0
cis-1,2-Dichloroethene	Ave	0.3382	0.3325	0.1000	9.83	10.0	-1.7	20.0
2,2-Dichloropropane	Ave	0.4957	0.4212		8.50	10.0	-15.0	20.0
Propionitrile	Ave	1.032	1.362		264	200	32.0*	20.0
Methacrylonitrile	Ave	5.067	5.263		104	100	3.9	20.0
Bromochloromethane	Ave	0.1575	0.1489		9.45	10.0	-5.5	20.0
Tetrahydrofuran	Ave	1.510	1.485		49.2	50.0	-1.6	20.0
Chloroform	Ave	0.5600	0.5288	0.2000	9.44	10.0	-5.6	20.0
1,1,1-Trichloroethane	Ave	0.4938	0.4318	0.1000	8.74	10.0	-12.6	20.0
Cyclohexane	Ave	0.5017	0.4908	0.1000	9.78	10.0	-2.2	20.0
Carbon tetrachloride	Ave	0.4227	0.3718	0.1000	8.80	10.0	-12.0	20.0
1,1-Dichloropropene	Ave	0.4184	0.3930		9.40	10.0	-6.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-127761-1

SDG No.: _____

Lab Sample ID: CCVIS 410-381658/3 Calibration Date: 05/31/2023 21:08

Instrument ID: 10193 Calib Start Date: 05/01/2023 19:00

GC Column: R-624SilMS 30m ID: 0.25 (mm) Calib End Date: 05/01/2023 21:14

Lab File ID: CY31X02.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
Isobutyl alcohol	Ave	0.2421	0.2919		603	500	20.6*	20.0
Benzene	Ave	1.278	1.285	0.5000	10.1	10.0	0.6	20.0
1,2-Dichloroethane	Ave	0.3691	0.3274	0.1000	8.87	10.0	-11.3	20.0
t-Amyl methyl ether	Ave	0.9457	0.9215		9.74	10.0	-2.6	20.0
n-Heptane	Ave	0.4106	0.4508		11.0	10.0	9.8	20.0
n-Butanol	Lin1		0.2445		877	875	0.2	20.0
Trichloroethene	Ave	0.3389	0.3220	0.2000	9.50	10.0	-5.0	20.0
Methylcyclohexane	Ave	0.5436	0.5007	0.1000	9.21	10.0	-7.9	20.0
1,2-Dichloropropane	Ave	0.3354	0.3500	0.1000	10.4	10.0	4.3	20.0
Methyl methacrylate	Ave	9.96	9.877		9.92	10.0	-0.8	20.0
1,4-Dioxane	Ave	0.0530	0.0647	0.0050	611	500	22.2*	20.0
Dibromomethane	Ave	0.1658	0.1558		9.39	10.0	-6.1	20.0
Bromodichloromethane	Ave	0.4233	0.4013	0.2000	9.48	10.0	-5.2	20.0
2-Nitropropane	Ave	3.183	2.837		44.6	50.0	-10.9	20.0
1-Bromo-2-chloroethane	Ave	0.3521	0.3703		10.5	10.0	5.2	20.0
cis-1,3-Dichloropropene	Ave	0.5193	0.5166	0.2000	9.95	10.0	-0.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	13.09	14.35	0.1000	110	100	9.7	20.0
Toluene	Ave	0.9210	0.9947	0.4000	10.8	10.0	8.0	20.0
trans-1,3-Dichloropropene	Ave	0.4606	0.5109	0.1000	11.1	10.0	10.9	20.0
Ethyl methacrylate	Ave	0.3729	0.4363		11.7	10.0	17.0	20.0
1,1,2-Trichloroethane	Ave	0.2739	0.2926	0.1000	10.7	10.0	6.8	20.0
Tetrachloroethene	Ave	0.4348	0.4280	0.2000	9.84	10.0	-1.6	20.0
1,3-Dichloropropane	Ave	0.4412	0.4932		11.2	10.0	11.8	20.0
2-Hexanone	Ave	8.531	9.633	0.1000	113	100	12.9	20.0
Dibromochloromethane	Ave	0.3448	0.3607		10.5	10.0	4.6	20.0
1,2-Dibromoethane (EDB)	Ave	0.2579	0.2755	0.1000	10.7	10.0	6.8	20.0
1-Chlorohexane	Ave	0.5253	0.5258		10.0	10.0	0.1	20.0
Chlorobenzene	Ave	1.096	1.142	0.5000	10.4	10.0	4.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3808	0.3853		10.1	10.0	1.2	20.0
Ethylbenzene	Ave	1.777	1.927	0.1000	10.8	10.0	8.4	20.0
m&p-Xylene	Ave	0.7192	0.7642	0.1000	21.3	20.0	6.3	20.0
o-Xylene	Ave	0.7124	0.7500	0.3000	10.5	10.0	5.3	20.0
Styrene	Ave	1.163	1.263	0.3000	10.9	10.0	8.5	20.0
Bromoform	Ave	0.2176	0.2173	0.1000	9.99	10.0	-0.1	20.0
Isopropylbenzene	Ave	1.829	1.894	0.1000	10.4	10.0	3.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5598	0.6520	0.3000	11.6	10.0	16.5	20.0
Bromobenzene	Ave	0.7712	0.8120		10.5	10.0	5.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1344	0.0906		67.4	100	-32.6*	20.0
1,2,3-Trichloropropane	Ave	0.1472	0.1602		10.9	10.0	8.8	20.0
N-Propylbenzene	Ave	3.434	3.839		11.2	10.0	11.8	20.0
2-Chlorotoluene	Ave	0.7420	0.7943		10.7	10.0	7.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-127761-1
 SDG No.: _____
 Lab Sample ID: CCVIS 410-381658/3 Calibration Date: 05/31/2023 21:08
 Instrument ID: 10193 Calib Start Date: 05/01/2023 19:00
 GC Column: R-624SilMS 30m ID: 0.25 (mm) Calib End Date: 05/01/2023 21:14
 Lab File ID: CY31X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3,5-Trimethylbenzene	Ave	2.576	2.828		11.0	10.0	9.8	20.0
4-Chlorotoluene	Ave	0.7652	0.8224		10.7	10.0	7.5	20.0
tert-Butylbenzene	Ave	0.5916	0.6366		10.8	10.0	7.6	20.0
Pentachloroethane	Ave	0.4829	0.5371		11.1	10.0	11.2	20.0
1,2,4-Trimethylbenzene	Ave	2.657	2.972		11.2	10.0	11.8	20.0
sec-Butylbenzene	Ave	3.264	3.582		11.0	10.0	9.7	20.0
1,3-Dichlorobenzene	Ave	1.498	1.626	0.6000	10.9	10.0	8.6	20.0
p-Isopropyltoluene	Ave	2.917	3.152		10.8	10.0	8.0	20.0
1,4-Dichlorobenzene	Ave	1.508	1.653	0.5000	11.0	10.0	9.6	20.0
1,2,3-Trimethylbenzene	Ave	1.231	1.355		11.0	10.0	10.1	20.0
Benzyl chloride	Ave	0.2277	0.2525		11.1	10.0	10.9	20.0
n-Butylbenzene	Ave	1.357	1.529		11.3	10.0	12.6	20.0
1,2-Dichlorobenzene	Ave	1.398	1.531	0.4000	11.0	10.0	9.5	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0756	0.0789	0.0500	10.4	10.0	4.4	20.0
1,3,5-Trichlorobenzene	Ave	1.175	1.273		10.8	10.0	8.3	20.0
1,2,4-Trichlorobenzene	Ave	0.8973	0.9894	0.2000	11.0	10.0	10.3	20.0
Hexachlorobutadiene	Ave	0.5284	0.5358		10.1	10.0	1.4	20.0
Naphthalene	Ave	1.438	1.664		11.6	10.0	15.7	20.0
1,2,3-Trichlorobenzene	Ave	0.7100	0.7690		10.8	10.0	8.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2604	0.2365		9.08	10.0	-9.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0513	0.0495		9.65	10.0	-3.5	20.0
Toluene-d8 (Surr)	Ave	1.194	1.273		10.7	10.0	6.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5105	0.4947		9.69	10.0	-3.1	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X02.D
 Lims ID: CCVIS VSTD10
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 31-May-2023 21:08:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-003
 Misc. Info.: CCVIS
 Operator ID: gaw91131 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 14:52:19 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: JS6E

Date: 31-May-2023 21:35:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.715	1.715	0.000	99	645793	10.0	8.49	M
5 Chloromethane	50	1.879	1.879	0.000	99	910733	10.0	10.2	
6 Vinyl chloride	62	1.983	1.983	0.000	98	771689	10.0	9.05	
7 Butadiene	39	1.995	1.995	0.000	93	1381314	10.0	17.4	
9 Bromomethane	94	2.264	2.264	0.000	90	513681	10.0	8.84	
10 Chloroethane	64	2.325	2.325	0.000	100	460078	10.0	9.19	
11 Dichlorofluoromethane	67	2.544	2.544	0.000	97	1070958	10.0	9.07	
13 Pentane	43	2.587	2.587	0.000	97	842097	10.0	10.0	
12 Trichlorofluoromethane	101	2.593	2.593	0.000	98	774672	10.0	7.59	
14 Ethyl ether	59	2.770	2.770	0.000	92	519914	10.0	9.86	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.867	2.867	0.000	94	687151	10.0	9.48	
17 Acrolein	56	2.916	2.916	0.000	100	4053901	500.0	557.4	
18 1,1-Dichloroethene	96	3.032	3.032	0.000	98	486537	10.0	9.47	
20 Acetone	43	3.062	3.062	0.000	100	891816	100.0	107.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.080	3.080	0.000	92	478463	10.0	9.18	
22 Iodomethane	142	3.190	3.190	0.000	97	995175	10.0	9.28	
23 Ethyl bromide	108	3.215	3.215	0.000	98	473623	10.0	9.16	
24 Isopropyl alcohol	45	3.215	3.215	0.000	44	407833	200.0	254.3	
25 Carbon disulfide	76	3.276	3.276	0.000	99	1765444	10.0	9.89	M
26 Methyl acetate	43	3.410	3.410	0.000	41	357090	10.0	13.5	
29 3-Chloro-1-propene	41	3.422	3.422	0.000	93	982222	10.0	10.7	
30 Methylene Chloride	84	3.580	3.580	0.000	93	617131	10.0	10.0	
* 31 t-Butyl alcohol-d10 (IS)	65	3.641	3.641	0.000	97	173581	50.0	50.0	
32 2-Methyl-2-propanol	59	3.733	3.733	0.000	99	640647	200.0	192.5	
33 Acrylonitrile	53	3.891	3.891	0.000	100	320505	25.0	26.7	
34 Methyl tert-butyl ether	73	3.928	3.928	0.000	94	1705077	10.0	9.60	
35 trans-1,2-Dichloroethene	96	3.934	3.934	0.000	98	594044	10.0	9.46	
36 Hexane	57	4.318	4.318	0.000	93	782995	10.0	9.82	
37 1,1-Dichloroethane	63	4.556	4.556	0.000	96	1120554	10.0	9.86	
39 Isopropyl ether	45	4.623	4.623	0.000	95	2216319	10.0	10.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.672	4.672	0.000	90	882076	10.0	9.57	
41 Tert-butyl ethyl ether	59	5.184	5.184	0.000	98	2043725	10.0	9.83	
42 2-Butanone (MEK)	43	5.409	5.409	0.000	100	1787041	100.0	109.0	
43 cis-1,2-Dichloroethene	96	5.421	5.421	0.000	82	674863	10.0	9.83	
44 2,2-Dichloropropane	77	5.428	5.428	0.000	86	854808	10.0	8.50	
45 Propionitrile	54	5.507	5.507	0.000	99	945338	200.0	263.9	
47 Methacrylonitrile	67	5.714	5.714	0.000	92	1827203	100.0	103.9	
48 Chlorobromomethane	128	5.757	5.757	0.000	96	302127	10.0	9.45	
49 Tetrahydrofuran	71	5.793	5.793	0.000	92	257833	50.0	49.2	
50 Chloroform	83	5.921	5.921	0.000	93	1073296	10.0	9.44	
53 1,1,1-Trichloroethane	97	6.135	6.135	0.000	99	876375	10.0	8.74	
\$ 54 Dibromofluoromethane (Surr)	113	6.141	6.141	0.000	93	479977	10.0	9.08	
55 Cyclohexane	56	6.232	6.232	0.000	91	996092	10.0	9.78	
56 Carbon tetrachloride	117	6.348	6.348	0.000	97	754598	10.0	8.80	
57 1,1-Dichloropropene	75	6.366	6.366	0.000	98	797764	10.0	9.40	
58 Isobutyl alcohol	41	6.598	6.598	0.000	95	506671	500.0	602.8	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.604	6.604	0.000	99	100495	10.0	9.65	
60 Benzene	78	6.629	6.629	0.000	97	2608325	10.0	10.1	
61 1,2-Dichloroethane	62	6.714	6.714	0.000	97	664452	10.0	8.87	
64 Tert-amyl methyl ether	73	6.842	6.842	0.000	99	1870367	10.0	9.74	
* 65 Fluorobenzene (IS)	96	7.049	7.049	0.000	99	2029678	10.0	10.0	
66 n-Heptane	43	7.068	7.068	0.000	93	915020	10.0	11.0	
67 n-Butanol	56	7.525	7.525	0.000	89	742787	875.0	877.1	
68 Trichloroethene	95	7.543	7.543	0.000	98	653642	10.0	9.50	
69 Methylcyclohexane	83	7.842	7.842	0.000	91	1016360	10.0	9.21	
70 1,2-Dichloropropane	63	7.878	7.878	0.000	97	710362	10.0	10.4	
71 2-ethoxy-2-methyl butane	87	7.903	7.903	0.000	92	1049496	10.0	9.61	
73 Methyl methacrylate	69	7.994	7.994	0.000	93	342899	10.0	9.92	
74 1,4-Dioxane	88	8.000	8.000	0.000	33	112361	500.0	611.0	
72 Dibromomethane	93	8.000	8.000	0.000	95	316138	10.0	9.39	
76 Dichlorobromomethane	83	8.244	8.244	0.000	99	814418	10.0	9.48	
77 2-Nitropropane	41	8.531	8.531	0.000	98	492410	50.0	44.6	
78 1-Bromo-2-chloroethane	63	8.640	8.640	0.000	98	751532	10.0	10.5	
80 cis-1,3-Dichloropropene	75	8.817	8.817	0.000	97	1048483	10.0	9.95	
82 4-Methyl-2-pentanone (MIBK)	43	9.024	9.024	0.000	97	4982952	100.0	109.7	
\$ 83 Toluene-d8 (Surr)	98	9.152	9.152	0.000	93	2164850	10.0	10.7	
84 Toluene	92	9.238	9.238	0.000	98	1692171	10.0	10.8	
85 trans-1,3-Dichloropropene	75	9.543	9.543	0.000	92	869114	10.0	11.1	
86 Ethyl methacrylate	69	9.628	9.628	0.000	90	742290	10.0	11.7	
87 1,1,2-Trichloroethane	97	9.762	9.762	0.000	90	497759	10.0	10.7	
88 Tetrachloroethene	166	9.841	9.841	0.000	98	728173	10.0	9.84	
89 1,3-Dichloropropane	76	9.933	9.933	0.000	91	839072	10.0	11.2	
106 2-Hexanone	43	10.006	10.006	0.000	97	3344077	100.0	112.9	
108 Chlorodibromomethane	129	10.158	10.158	0.000	90	613623	10.0	10.5	
110 Ethylene Dibromide	107	10.268	10.268	0.000	99	468646	10.0	10.7	
* 111 Chlorobenzene-d5 (IS)	117	10.738	10.738	0.000	86	1701193	10.0	10.0	
112 1-Chlorohexane	91	10.756	10.756	0.000	97	894560	10.0	10.0	
113 Chlorobenzene	112	10.762	10.762	0.000	95	1942844	10.0	10.4	
114 1,1,1,2-Tetrachloroethane	131	10.853	10.853	0.000	97	655408	10.0	10.1	
115 Ethylbenzene	91	10.859	10.859	0.000	98	3277580	10.0	10.8	
116 m-Xylene & p-Xylene	106	10.981	10.981	0.000	97	2600233	20.0	21.3	
118 o-Xylene	106	11.323	11.323	0.000	97	1275947	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
119 Styrene	104	11.341	11.341	0.000	95	2148299	10.0	10.9	
120 Bromoform	173	11.500	11.500	0.000	98	369684	10.0	9.99	
121 Isopropylbenzene	105	11.640	11.640	0.000	95	3222183	10.0	10.4	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.786	11.786	0.000	92	841572	10.0	9.69	
126 1,1,2,2-Tetrachloroethane	83	11.902	11.902	0.000	91	661396	10.0	11.6	
125 Bromobenzene	156	11.902	11.902	0.000	95	823763	10.0	10.5	
127 trans-1,4-Dichloro-2-butene	53	11.926	11.926	0.000	88	919253	100.0	67.4	
128 1,2,3-Trichloropropane	110	11.945	11.945	0.000	79	162566	10.0	10.9	
129 N-Propylbenzene	91	11.975	11.975	0.000	99	3894123	10.0	11.2	
130 2-Chlorotoluene	126	12.054	12.054	0.000	97	805785	10.0	10.7	
131 1,3,5-Trimethylbenzene	105	12.121	12.121	0.000	94	2868984	10.0	11.0	
132 4-Chlorotoluene	126	12.152	12.152	0.000	97	834312	10.0	10.7	
133 tert-Butylbenzene	134	12.365	12.365	0.000	93	645773	10.0	10.8	
134 Pentachloroethane	167	12.396	12.396	0.000	93	544856	10.0	11.1	
135 1,2,4-Trimethylbenzene	105	12.414	12.414	0.000	97	3014800	10.0	11.2	
136 sec-Butylbenzene	105	12.536	12.536	0.000	94	3633624	10.0	11.0	
137 1,3-Dichlorobenzene	146	12.633	12.633	0.000	98	1650027	10.0	10.9	
138 4-Isopropyltoluene	119	12.646	12.646	0.000	97	3197413	10.0	10.8	
* 139 1,4-Dichlorobenzene-d4	152	12.688	12.688	0.000	94	1014488	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.707	12.707	0.000	95	1677302	10.0	11.0	
141 1,2,3-Trimethylbenzene	120	12.719	12.719	0.000	98	1374846	10.0	11.0	
142 Benzyl chloride	126	12.792	12.792	0.000	98	256159	10.0	11.1	
145 p-Diethylbenzene	119	12.926	12.926	0.000	94	2008247	10.0	11.0	
143 n-Butylbenzene	92	12.944	12.944	0.000	97	1550770	10.0	11.3	
144 1,2-Dichlorobenzene	146	12.975	12.975	0.000	99	1553457	10.0	11.0	
148 1,2-Dibromo-3-Chloropropane	155	13.536	13.536	0.000	88	80028	10.0	10.4	
149 1,3,5-Trichlorobenzene	180	13.658	13.658	0.000	98	1291401	10.0	10.8	
150 1,2,4-Trichlorobenzene	180	14.091	14.091	0.000	94	1003724	10.0	11.0	
151 Hexachlorobutadiene	225	14.170	14.170	0.000	96	543563	10.0	10.1	
152 Naphthalene	128	14.267	14.267	0.000	97	1688565	10.0	11.6	
153 1,2,3-Trichlorobenzene	180	14.414	14.414	0.000	96	780162	10.0	10.8	
154 2-Methylnaphthalene	142	15.023	15.023	0.000	92	519584	10.0	7.17	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00078

Amount Added: 10.00

Units: uL

MSV_LL_#2_826_00089

Amount Added: 10.00

Units: uL

MSV_LL_GAS826_00152

Amount Added: 10.00

Units: uL

MSV_HP25_ISSS_00070

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X02.D

Injection Date: 31-May-2023 21:08:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: CCVIS VSTD10

Worklist Smp#: 3

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

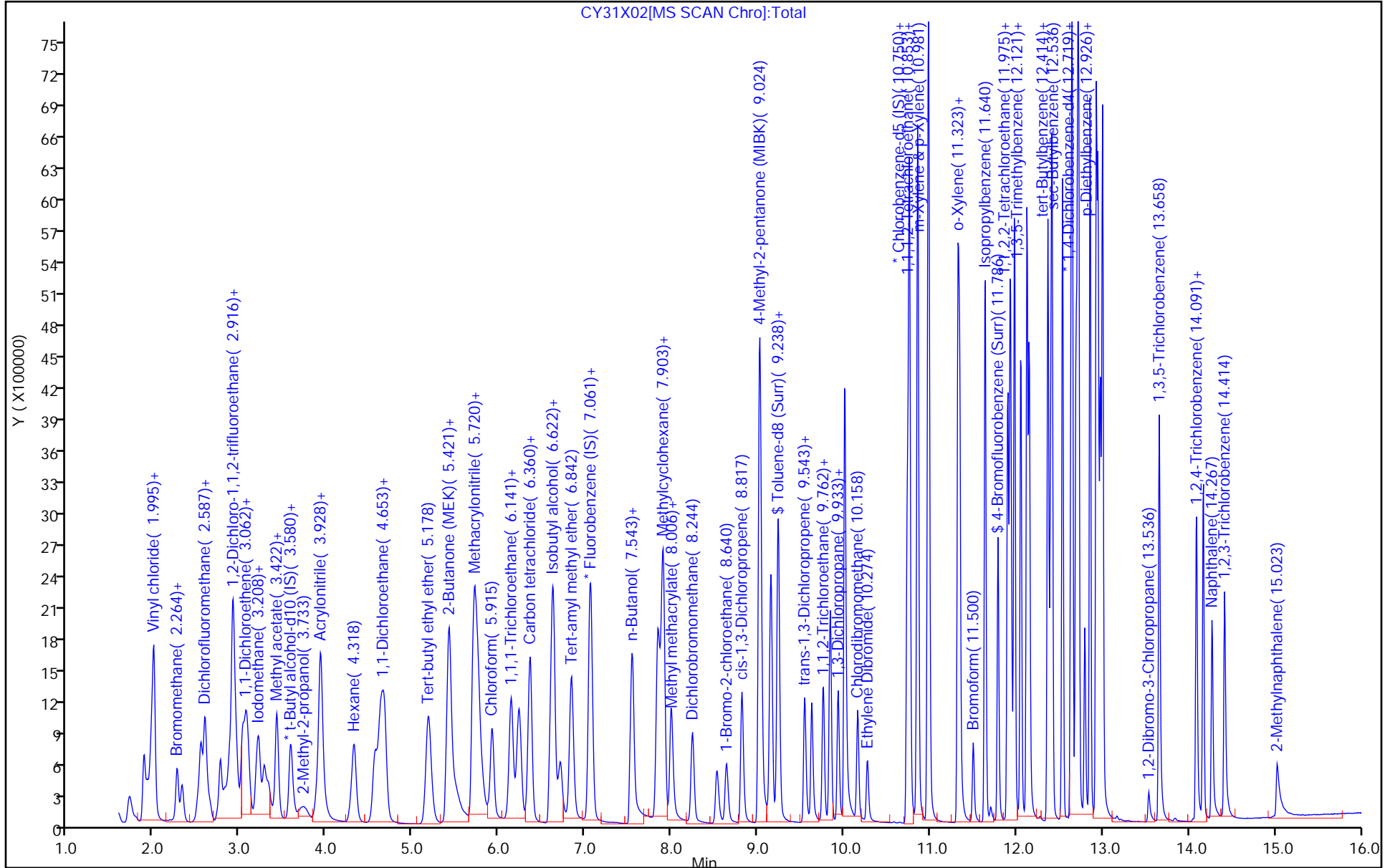
ALS Bottle#: 2

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

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



Eurofins Lancaster Laboratories Environment Testing, LLC

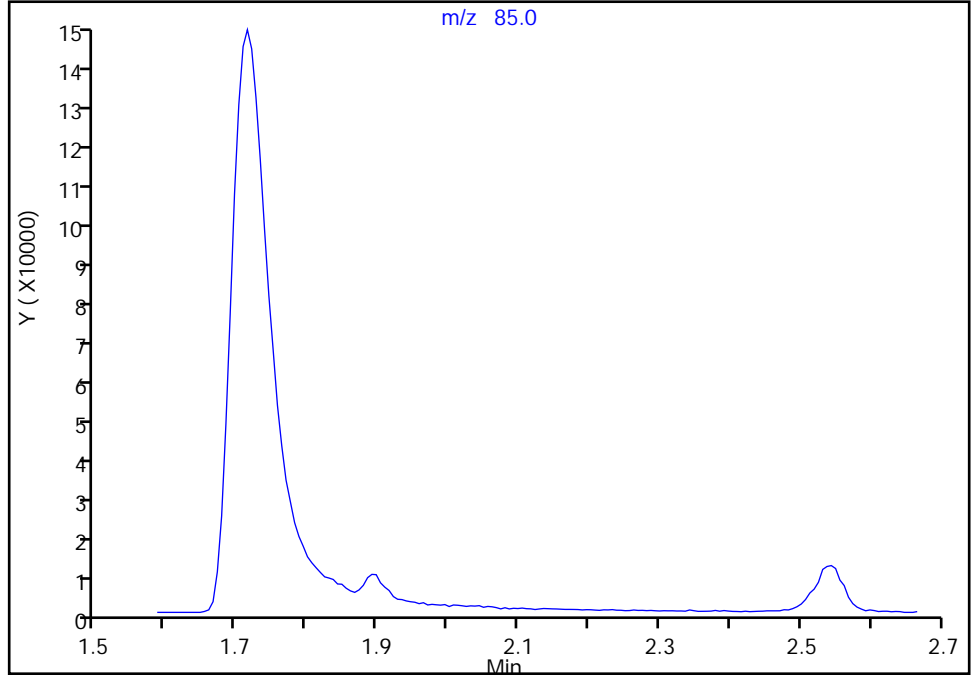
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Injection Date: 31-May-2023 21:08:30 Instrument ID: 10193
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

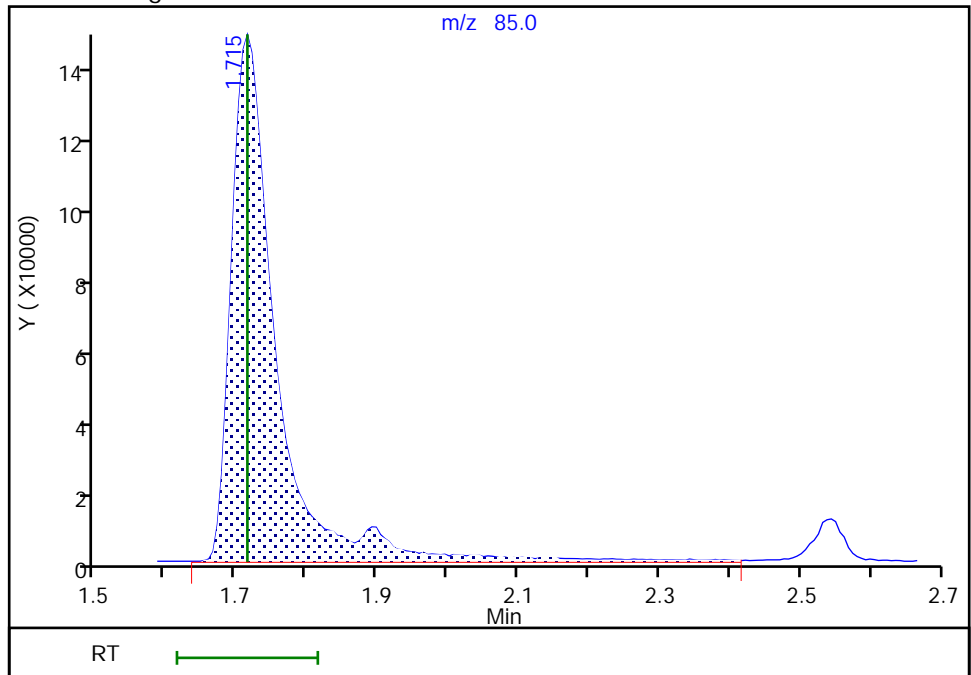
Not Detected
Expected RT: 1.71

Processing Integration Results



Manual Integration Results

RT: 1.71
Area: 645793
Amount: 8.494582
Amount Units: ug/l



Reviewer: JS6E, 31-May-2023 21:32:40 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Missed Peak

Euofins Lancaster Laboratories Environment Testing, LLC

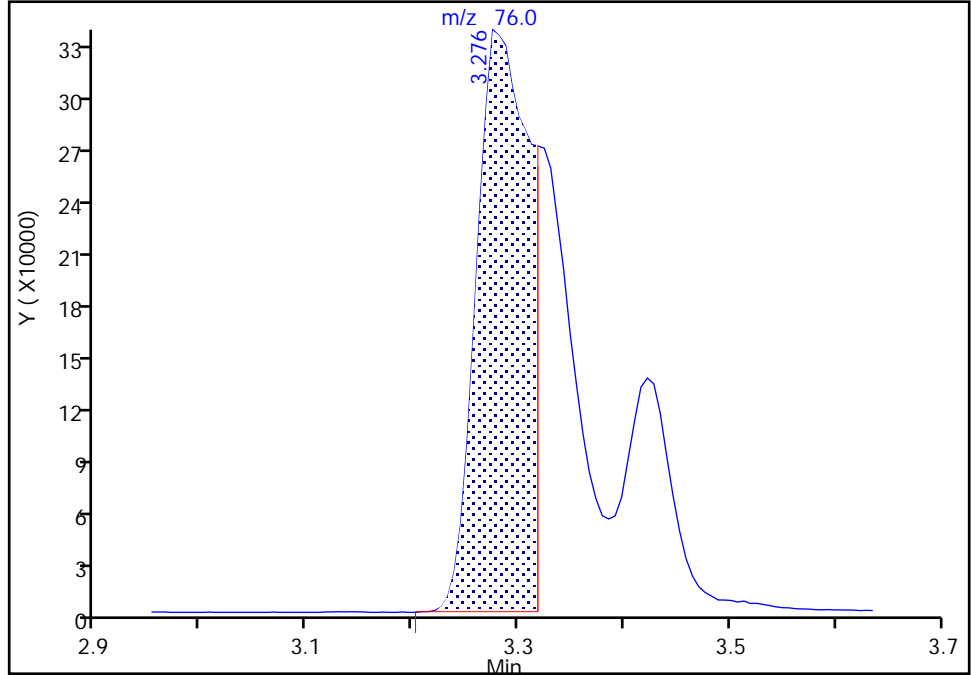
Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X02.D
Injection Date: 31-May-2023 21:08:30 Instrument ID: 10193
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

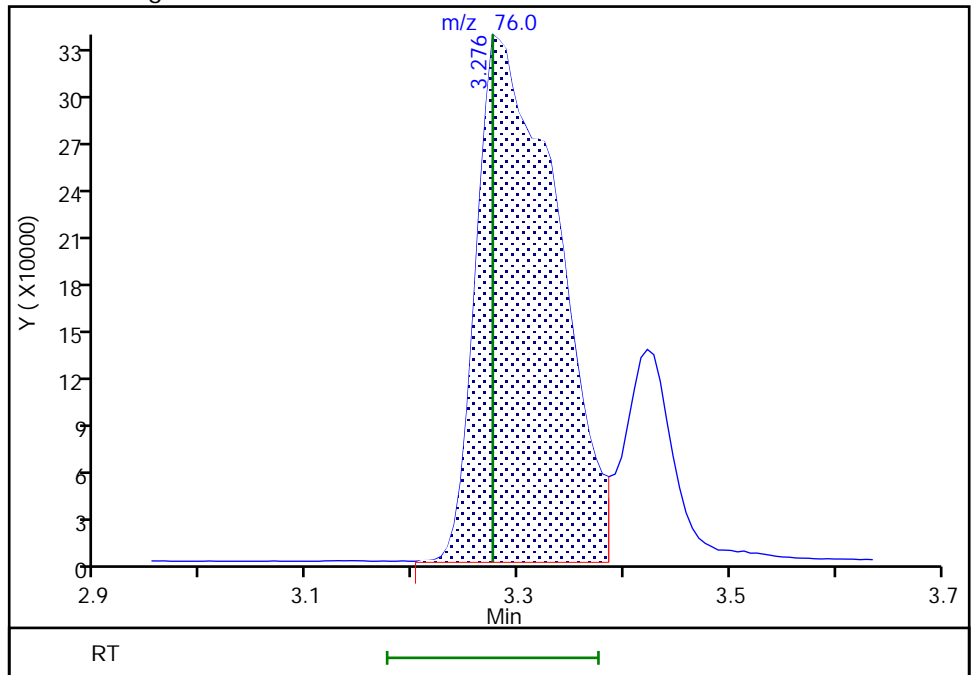
RT: 3.28
Area: 1186825
Amount: 6.645991
Amount Units: ug/l

Processing Integration Results



RT: 3.28
Area: 1765444
Amount: 9.886146
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 31-May-2023 21:33:29 -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 Enviror Job No.: 410-127761-1
 SDG No.: _____
 Lab Sample ID: CCVIS 410-382118/3 Calibration Date: 06/01/2023 20:41
 Instrument ID: 10193 Calib Start Date: 05/01/2023 19:00
 GC Column: R-624SilMS 30m ID: 0.25 (mm) Calib End Date: 05/01/2023 21:14
 Lab File ID: CU01X02.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	0.3746	0.2821	0.1000	9.41	12.5	-24.7*	20.0
Chloromethane	Ave	0.4394	0.3956	0.1000	11.3	12.5	-10.0	20.0
Vinyl chloride	Ave	0.4200	0.3425	0.1000	10.2	12.5	-18.4	20.0
1,3-Butadiene	Ave	0.3904	0.5931		19.0	12.5	51.9*	20.0
Bromomethane	Ave	0.2862	0.2229	0.1000	9.74	12.5	-22.1*	20.0
Chloroethane	Ave	0.2468	0.1983	0.1000	10.0	12.5	-19.7	20.0
Dichlorofluoromethane	Ave	0.5817	0.4696		10.1	12.5	-19.3	20.0
Trichlorofluoromethane	Ave	0.5028	0.3471	0.1000	8.63	12.5	-31.0*	20.0
Ethyl ether	Ave	0.2597	0.2341		11.3	12.5	-9.8	20.0
Freon 123a	Ave	0.3571	0.2999		10.5	12.5	-16.0	20.0
Acrolein	Ave	2.095	2.501		746	625	19.4	20.0
1,1-Dichloroethene	Ave	0.2530	0.2115	0.1000	10.4	12.5	-16.4	20.0
Acetone	Ave	2.383	2.547	0.1000	134	125	6.9	20.0
Freon 113	Ave	0.2569	0.1955	0.1000	9.51	12.5	-23.9*	20.0
Methyl iodide	Ave	0.5282	0.4322		10.2	12.5	-18.2	20.0
Ethyl bromide	Ave	0.2549	0.2098		10.3	12.5	-17.7	20.0
Carbon disulfide	Ave	0.8798	0.7524	0.1000	10.7	12.5	-14.5	20.0
Methyl acetate	Ave	7.642	8.380	0.1000	13.7	12.5	9.7	20.0
Allyl chloride	Ave	0.4543	0.4459		12.3	12.5	-1.8	20.0
Methylene Chloride	Ave	0.3030	0.2720	0.1000	11.2	12.5	-10.2	20.0
t-Butyl alcohol	Ave	0.9587	0.8912		232	250	-7.0	20.0
Acrylonitrile	Ave	3.452	4.048		36.6	31.3	17.3	20.0
Methyl tert-butyl ether	Ave	0.8749	0.7716	0.1000	11.0	12.5	-11.8	20.0
trans-1,2-Dichloroethene	Ave	0.3094	0.2644	0.1000	10.7	12.5	-14.5	20.0
n-Hexane	Ave	0.3928	0.3489		11.1	12.5	-11.2	20.0
1,1-Dichloroethane	Ave	0.5599	0.5080	0.2000	11.3	12.5	-9.3	20.0
di-Isopropyl ether	Ave	1.017	1.006		12.4	12.5	-1.1	20.0
2-Chloro-1,3-butadiene	Ave	0.4540	0.4002		11.0	12.5	-11.8	20.0
Ethyl t-butyl ether	Ave	1.025	0.9197		11.2	12.5	-10.3	20.0
2-Butanone (MEK)	Ave	4.723	5.430	0.1000	144	125	15.0	20.0
cis-1,2-Dichloroethene	Ave	0.3382	0.3008	0.1000	11.1	12.5	-11.0	20.0
2,2-Dichloropropane	Ave	0.4957	0.3852		9.72	12.5	-22.3*	20.0
Propionitrile	Ave	1.032	1.506		365	250	45.9*	20.0
Methacrylonitrile	Ave	5.067	5.708		141	125	12.7	20.0
Bromochloromethane	Ave	0.1575	0.1328		10.5	12.5	-15.6	20.0
Tetrahydrofuran	Ave	1.510	1.597		66.1	62.5	5.8	20.0
Chloroform	Ave	0.5600	0.4809	0.2000	10.7	12.5	-14.1	20.0
1,1,1-Trichloroethane	Ave	0.4938	0.3920	0.1000	9.92	12.5	-20.6*	20.0
Cyclohexane	Ave	0.5017	0.4418	0.1000	11.0	12.5	-11.9	20.0
Carbon tetrachloride	Ave	0.4227	0.3368	0.1000	9.96	12.5	-20.3*	20.0
1,1-Dichloropropene	Ave	0.4184	0.3611		10.8	12.5	-13.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-127761-1

SDG No.: _____

Lab Sample ID: CCVIS 410-382118/3 Calibration Date: 06/01/2023 20:41

Instrument ID: 10193 Calib Start Date: 05/01/2023 19:00

GC Column: R-624SilMS 30m ID: 0.25 (mm) Calib End Date: 05/01/2023 21:14

Lab File ID: CU01X02.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
Isobutyl alcohol	Ave	0.2421	0.2895		747	625	19.6	20.0
Benzene	Ave	1.278	1.157	0.5000	11.3	12.5	-9.4	20.0
1,2-Dichloroethane	Ave	0.3691	0.2885	0.1000	9.77	12.5	-21.8*	20.0
t-Amyl methyl ether	Ave	0.9457	0.8369		11.1	12.5	-11.5	20.0
n-Heptane	Ave	0.4106	0.4083		12.4	12.5	-0.6	20.0
n-Butanol	Lin1		0.2392		1060	1090	-2.8	20.0
Trichloroethene	Ave	0.3389	0.2885	0.2000	10.6	12.5	-14.9	20.0
Methylcyclohexane	Ave	0.5436	0.4443	0.1000	10.2	12.5	-18.3	20.0
1,2-Dichloropropane	Ave	0.3354	0.3164	0.1000	11.8	12.5	-5.7	20.0
Dibromomethane	Ave	0.1658	0.1388		10.5	12.5	-16.3	20.0
Methyl methacrylate	Ave	9.96	10.86		13.6	12.5	9.1	20.0
1,4-Dioxane	Ave	0.0530	0.0676	0.0050	798	625	27.7*	20.0
Bromodichloromethane	Ave	0.4233	0.3610	0.2000	10.7	12.5	-14.7	20.0
2-Nitropropane	Ave	3.183	3.012		59.1	62.5	-5.4	20.0
1-Bromo-2-chloroethane	Ave	0.3521	0.3336		11.8	12.5	-5.3	20.0
cis-1,3-Dichloropropene	Ave	0.5193	0.4712	0.2000	11.3	12.5	-9.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	13.09	14.96	0.1000	143	125	14.3	20.0
Toluene	Ave	0.9210	0.9882	0.4000	13.4	12.5	7.3	20.0
trans-1,3-Dichloropropene	Ave	0.4606	0.5242	0.1000	14.2	12.5	13.8	20.0
Ethyl methacrylate	Ave	0.3729	0.4490		15.1	12.5	20.4*	20.0
1,1,2-Trichloroethane	Ave	0.2739	0.2898	0.1000	13.2	12.5	5.8	20.0
Tetrachloroethene	Ave	0.4348	0.4270	0.2000	12.3	12.5	-1.8	20.0
1,3-Dichloropropane	Ave	0.4412	0.5035		14.3	12.5	14.1	20.0
2-Hexanone	Ave	8.531	10.60	0.1000	155	125	24.2*	20.0
Dibromochloromethane	Ave	0.3448	0.3561		12.9	12.5	3.3	20.0
1,2-Dibromoethane (EDB)	Ave	0.2579	0.2749	0.1000	13.3	12.5	6.6	20.0
1-Chlorohexane	Ave	0.5253	0.5281		12.6	12.5	0.5	20.0
Chlorobenzene	Ave	1.096	1.134	0.5000	12.9	12.5	3.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3808	0.3828		12.6	12.5	0.5	20.0
Ethylbenzene	Ave	1.777	1.939	0.1000	13.6	12.5	9.1	20.0
m&p-Xylene	Ave	0.7192	0.7573	0.1000	26.3	25.0	5.3	20.0
o-Xylene	Ave	0.7124	0.7499	0.3000	13.2	12.5	5.3	20.0
Styrene	Ave	1.163	1.263	0.3000	13.6	12.5	8.6	20.0
Bromoform	Ave	0.2176	0.2118	0.1000	12.2	12.5	-2.7	20.0
Isopropylbenzene	Ave	1.829	1.887	0.1000	12.9	12.5	3.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5598	0.6715	0.3000	15.0	12.5	20.0	20.0
Bromobenzene	Ave	0.7712	0.8463		13.7	12.5	9.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1344	0.1027		95.5	125	-23.6*	20.0
1,2,3-Trichloropropane	Ave	0.1472	0.1642		13.9	12.5	11.5	20.0
N-Propylbenzene	Ave	3.434	4.066		14.8	12.5	18.4	20.0
2-Chlorotoluene	Ave	0.7420	0.8189		13.8	12.5	10.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-127761-1

SDG No.: _____

Lab Sample ID: CCVIS 410-382118/3 Calibration Date: 06/01/2023 20:41

Instrument ID: 10193 Calib Start Date: 05/01/2023 19:00

GC Column: R-624SilMS 30m ID: 0.25 (mm) Calib End Date: 05/01/2023 21:14

Lab File ID: CU01X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3,5-Trimethylbenzene	Ave	2.576	2.984		14.5	12.5	15.9	20.0
4-Chlorotoluene	Ave	0.7652	0.8551		14.0	12.5	11.8	20.0
tert-Butylbenzene	Ave	0.5916	0.6610		14.0	12.5	11.7	20.0
Pentachloroethane	Ave	0.4829	0.5524		14.3	12.5	14.4	20.0
1,2,4-Trimethylbenzene	Ave	2.657	3.079		14.5	12.5	15.9	20.0
sec-Butylbenzene	Ave	3.264	3.733		14.3	12.5	14.4	20.0
1,3-Dichlorobenzene	Ave	1.498	1.700	0.6000	14.2	12.5	13.5	20.0
p-Isopropyltoluene	Ave	2.917	3.301		14.1	12.5	13.1	20.0
1,4-Dichlorobenzene	Ave	1.508	1.711	0.5000	14.2	12.5	13.5	20.0
1,2,3-Trimethylbenzene	Ave	1.231	1.407		14.3	12.5	14.3	20.0
Benzyl chloride	Ave	0.2277	0.2717		14.9	12.5	19.3	20.0
n-Butylbenzene	Ave	1.357	1.625		15.0	12.5	19.7	20.0
1,2-Dichlorobenzene	Ave	1.398	1.613	0.4000	14.4	12.5	15.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0756	0.0850	0.0500	14.1	12.5	12.5	20.0
1,3,5-Trichlorobenzene	Ave	1.175	1.352		14.4	12.5	15.1	20.0
1,2,4-Trichlorobenzene	Ave	0.8973	1.088	0.2000	15.2	12.5	21.2*	20.0
Hexachlorobutadiene	Ave	0.5284	0.5582		13.2	12.5	5.6	20.0
Naphthalene	Ave	1.438	1.784		15.5	12.5	24.1*	20.0
1,2,3-Trichlorobenzene	Ave	0.7100	0.8417		14.8	12.5	18.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2604	0.2312		8.88	10.0	-11.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0513	0.0481		9.38	10.0	-6.2	20.0
Toluene-d8 (Surr)	Ave	1.194	1.364		11.4	10.0	14.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5105	0.4894		9.59	10.0	-4.1	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01X02.D
 Lims ID: CCVIS VSTD12.5
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 01-Jun-2023 20:41:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085572-003
 Misc. Info.: CCVIS
 Operator ID: gaw91131 Instrument ID: 10193
 Sublist: chrom-MSV_10193_25mL*sub1
 Method: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 05-Jun-2023 10:14:23 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1679

First Level Reviewer: JS6E

Date: 01-Jun-2023 21:17:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.727	1.727	0.000	99	789944	12.5	9.41	M
5 Chloromethane	50	1.892	1.892	0.000	99	1107673	12.5	11.3	
6 Vinyl chloride	62	1.989	1.989	0.000	98	959133	12.5	10.2	
7 Butadiene	39	2.007	2.007	0.000	91	1660866	12.5	19.0	
9 Bromomethane	94	2.276	2.276	0.000	90	624167	12.5	9.74	
10 Chloroethane	64	2.337	2.337	0.000	100	555175	12.5	10.0	
11 Dichlorofluoromethane	67	2.556	2.556	0.000	97	1315097	12.5	10.1	
13 Pentane	43	2.599	2.599	0.000	99	1014052	12.5	11.0	
12 Trichlorofluoromethane	101	2.605	2.605	0.000	98	971914	12.5	8.63	
14 Ethyl ether	59	2.776	2.776	0.000	93	655676	12.5	11.3	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.873	2.873	0.000	94	839750	12.5	10.5	
17 Acrolein	56	2.928	2.928	0.000	100	4877023	625.0	746.2	
18 1,1-Dichloroethene	96	3.044	3.044	0.000	98	592171	12.5	10.4	
20 Acetone	43	3.074	3.074	0.000	100	993474	125.0	133.7	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.093	3.093	0.000	92	547310	12.5	9.51	
22 Iodomethane	142	3.208	3.208	0.000	98	1210269	12.5	10.2	
23 Ethyl bromide	108	3.227	3.227	0.000	98	587015	12.5	10.3	
24 Isopropyl alcohol	45	3.227	3.227	0.000	41	454103	250.0	315.0	
25 Carbon disulfide	76	3.294	3.294	0.000	99	2106932	12.5	10.7	M
26 Methyl acetate	43	3.422	3.422	0.000	96	326813	12.5	13.7	M
29 3-Chloro-1-propene	41	3.434	3.434	0.000	94	1248589	12.5	12.3	
30 Methylene Chloride	84	3.599	3.599	0.000	94	761620	12.5	11.2	
* 31 t-Butyl alcohol-d10 (IS)	65	3.647	3.647	0.000	95	155994	50.0	50.0	M
32 2-Methyl-2-propanol	59	3.745	3.745	0.000	100	695116	250.0	232.4	
33 Acrylonitrile	53	3.891	3.891	0.000	99	394709	31.3	36.6	
34 Methyl tert-butyl ether	73	3.940	3.940	0.000	95	2160598	12.5	11.0	
35 trans-1,2-Dichloroethene	96	3.940	3.940	0.000	98	740432	12.5	10.7	
36 Hexane	57	4.330	4.330	0.000	93	977121	12.5	11.1	
37 1,1-Dichloroethane	63	4.568	4.568	0.000	96	1422415	12.5	11.3	
39 Isopropyl ether	45	4.641	4.641	0.000	95	2818031	12.5	12.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.684	4.684	0.000	90	1120606	12.5	11.0	
41 Tert-butyl ethyl ether	59	5.190	5.190	0.000	98	2575230	12.5	11.2	
42 2-Butanone (MEK)	43	5.421	5.421	0.000	100	2117520	125.0	143.7	
43 cis-1,2-Dichloroethene	96	5.428	5.428	0.000	83	842360	12.5	11.1	
44 2,2-Dichloropropane	77	5.440	5.440	0.000	86	1078731	12.5	9.72	
45 Propionitrile	54	5.519	5.519	0.000	99	1174407	250.0	364.8	
47 Methacrylonitrile	67	5.720	5.720	0.000	93	2226107	125.0	140.8	
48 Chlorobromomethane	128	5.769	5.769	0.000	96	371911	12.5	10.5	
49 Tetrahydrofuran	71	5.793	5.793	0.000	88	311392	62.5	66.1	
50 Chloroform	83	5.927	5.927	0.000	93	1346711	12.5	10.7	
53 1,1,1-Trichloroethane	97	6.147	6.147	0.000	98	1097601	12.5	9.92	
\$ 54 Dibromofluoromethane (Surr)	113	6.147	6.147	0.000	94	517980	10.0	8.88	
55 Cyclohexane	56	6.238	6.238	0.000	92	1237007	12.5	11.0	
56 Carbon tetrachloride	117	6.360	6.360	0.000	96	943033	12.5	9.96	
57 1,1-Dichloropropene	75	6.372	6.372	0.000	98	1011251	12.5	10.8	
58 Isobutyl alcohol	41	6.604	6.604	0.000	91	564442	625.0	747.3	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.616	0.000	100	107811	10.0	9.38	
60 Benzene	78	6.635	6.635	0.000	97	3240946	12.5	11.3	
61 1,2-Dichloroethane	62	6.720	6.720	0.000	97	807868	12.5	9.77	
64 Tert-amyl methyl ether	73	6.848	6.848	0.000	99	2343420	12.5	11.1	
* 65 Fluorobenzene (IS)	96	7.061	7.061	0.000	99	2240141	10.0	10.0	
66 n-Heptane	43	7.074	7.074	0.000	94	1143224	12.5	12.4	
67 n-Butanol	56	7.531	7.531	0.000	89	816172	1093.8	1063.2	
68 Trichloroethene	95	7.549	7.549	0.000	99	807863	12.5	10.6	
69 Methylcyclohexane	83	7.842	7.842	0.000	91	1244022	12.5	10.2	
70 1,2-Dichloropropane	63	7.884	7.884	0.000	93	885916	12.5	11.8	
71 2-ethoxy-2-methyl butane	87	7.909	7.909	0.000	92	1314511	12.5	10.9	
73 Methyl methacrylate	69	8.000	8.000	0.000	93	423675	12.5	13.6	
72 Dibromomethane	93	8.000	8.000	0.000	83	388751	12.5	10.5	
74 1,4-Dioxane	88	8.006	8.006	0.000	31	131877	625.0	798.0	
76 Dichlorobromomethane	83	8.244	8.244	0.000	100	1010875	12.5	10.7	
77 2-Nitropropane	41	8.531	8.531	0.000	97	587331	62.5	59.1	
78 1-Bromo-2-chloroethane	63	8.640	8.640	0.000	98	934170	12.5	11.8	
80 cis-1,3-Dichloropropene	75	8.823	8.823	0.000	96	1319426	12.5	11.3	
82 4-Methyl-2-pentanone (MIBK)	43	9.024	9.024	0.000	97	5833735	125.0	142.9	
\$ 83 Toluene-d8 (Surr)	98	9.152	9.152	0.000	93	2292011	10.0	11.4	
84 Toluene	92	9.244	9.244	0.000	98	2075252	12.5	13.4	
85 trans-1,3-Dichloropropene	75	9.549	9.549	0.000	92	1100811	12.5	14.2	
86 Ethyl methacrylate	69	9.628	9.628	0.000	90	942925	12.5	15.1	
87 1,1,2-Trichloroethane	97	9.762	9.762	0.000	90	608645	12.5	13.2	
88 Tetrachloroethene	166	9.841	9.841	0.000	98	896759	12.5	12.3	
89 1,3-Dichloropropane	76	9.933	9.933	0.000	91	1057321	12.5	14.3	
106 2-Hexanone	43	10.012	10.012	0.000	96	4133274	125.0	155.3	
108 Chlorodibromomethane	129	10.158	10.158	0.000	90	747901	12.5	12.9	
110 Ethylene Dibromide	107	10.274	10.274	0.000	99	577340	12.5	13.3	
* 111 Chlorobenzene-d5 (IS)	117	10.737	10.737	0.000	84	1680086	10.0	10.0	
112 1-Chlorohexane	91	10.756	10.756	0.000	97	1109127	12.5	12.6	
113 Chlorobenzene	112	10.762	10.762	0.000	95	2380986	12.5	12.9	
114 1,1,1,2-Tetrachloroethane	131	10.853	10.853	0.000	97	803890	12.5	12.6	
115 Ethylbenzene	91	10.859	10.859	0.000	98	4072800	12.5	13.6	
116 m-Xylene & p-Xylene	106	10.981	10.981	0.000	97	3180776	25.0	26.3	
118 o-Xylene	106	11.323	11.323	0.000	97	1574846	12.5	13.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 Styrene	104	11.341	11.341	0.000	95	2653405	12.5	13.6	
120 Bromoform	173	11.499	11.499	0.000	98	444733	12.5	12.2	
121 Isopropylbenzene	105	11.640	11.640	0.000	96	3962171	12.5	12.9	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.786	11.786	0.000	92	822206	10.0	9.59	
126 1,1,2,2-Tetrachloroethane	83	11.902	11.902	0.000	91	801243	12.5	15.0	
125 Bromobenzene	156	11.902	11.902	0.000	93	1009707	12.5	13.7	
127 trans-1,4-Dichloro-2-butene	53	11.926	11.926	0.000	88	1225025	125.0	95.5	
128 1,2,3-Trichloropropane	110	11.945	11.945	0.000	79	195880	12.5	13.9	
129 N-Propylbenzene	91	11.981	11.981	0.000	99	4851780	12.5	14.8	
130 2-Chlorotoluene	126	12.054	12.054	0.000	97	977070	12.5	13.8	
131 1,3,5-Trimethylbenzene	105	12.121	12.121	0.000	93	3560679	12.5	14.5	
132 4-Chlorotoluene	126	12.152	12.152	0.000	97	1020306	12.5	14.0	
133 tert-Butylbenzene	134	12.365	12.365	0.000	93	788725	12.5	14.0	
134 Pentachloroethane	167	12.396	12.396	0.000	92	659082	12.5	14.3	
135 1,2,4-Trimethylbenzene	105	12.414	12.414	0.000	97	3673195	12.5	14.5	
136 sec-Butylbenzene	105	12.536	12.536	0.000	94	4454548	12.5	14.3	
137 1,3-Dichlorobenzene	146	12.633	12.633	0.000	98	2028604	12.5	14.2	
138 4-Isopropyltoluene	119	12.652	12.652	0.000	97	3938261	12.5	14.1	
* 139 1,4-Dichlorobenzene-d4	152	12.688	12.688	0.000	94	954514	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.707	12.707	0.000	95	2042044	12.5	14.2	
141 1,2,3-Trimethylbenzene	120	12.725	12.725	0.000	98	1679150	12.5	14.3	
142 Benzyl chloride	126	12.792	12.792	0.000	98	324133	12.5	14.9	
145 p-Diethylbenzene	119	12.926	12.926	0.000	94	2492218	12.5	14.5	
143 n-Butylbenzene	92	12.944	12.944	0.000	96	1938536	12.5	15.0	
144 1,2-Dichlorobenzene	146	12.975	12.975	0.000	99	1924280	12.5	14.4	
148 1,2-Dibromo-3-Chloropropane	155	13.536	13.536	0.000	87	101404	12.5	14.1	
149 1,3,5-Trichlorobenzene	180	13.658	13.658	0.000	98	1613295	12.5	14.4	
150 1,2,4-Trichlorobenzene	180	14.090	14.090	0.000	94	1297700	12.5	15.2	
151 Hexachlorobutadiene	225	14.170	14.170	0.000	96	665962	12.5	13.2	
152 Naphthalene	128	14.267	14.267	0.000	97	2129027	12.5	15.5	
153 1,2,3-Trichlorobenzene	180	14.414	14.414	0.000	96	1004289	12.5	14.8	
154 2-Methylnaphthalene	142	15.023	15.023	0.000	92	802874	12.5	11.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00078

Amount Added: 12.50

Units: uL

MSV_LL_#2_826_00089

Amount Added: 12.50

Units: uL

MSV_LL_GAS826_00152

Amount Added: 12.50

Units: uL

MSV_HP25_ISSS_00071

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01X02.D

Injection Date: 01-Jun-2023 20:41:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: CCVIS VSTD12.5

Worklist Smp#: 3

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

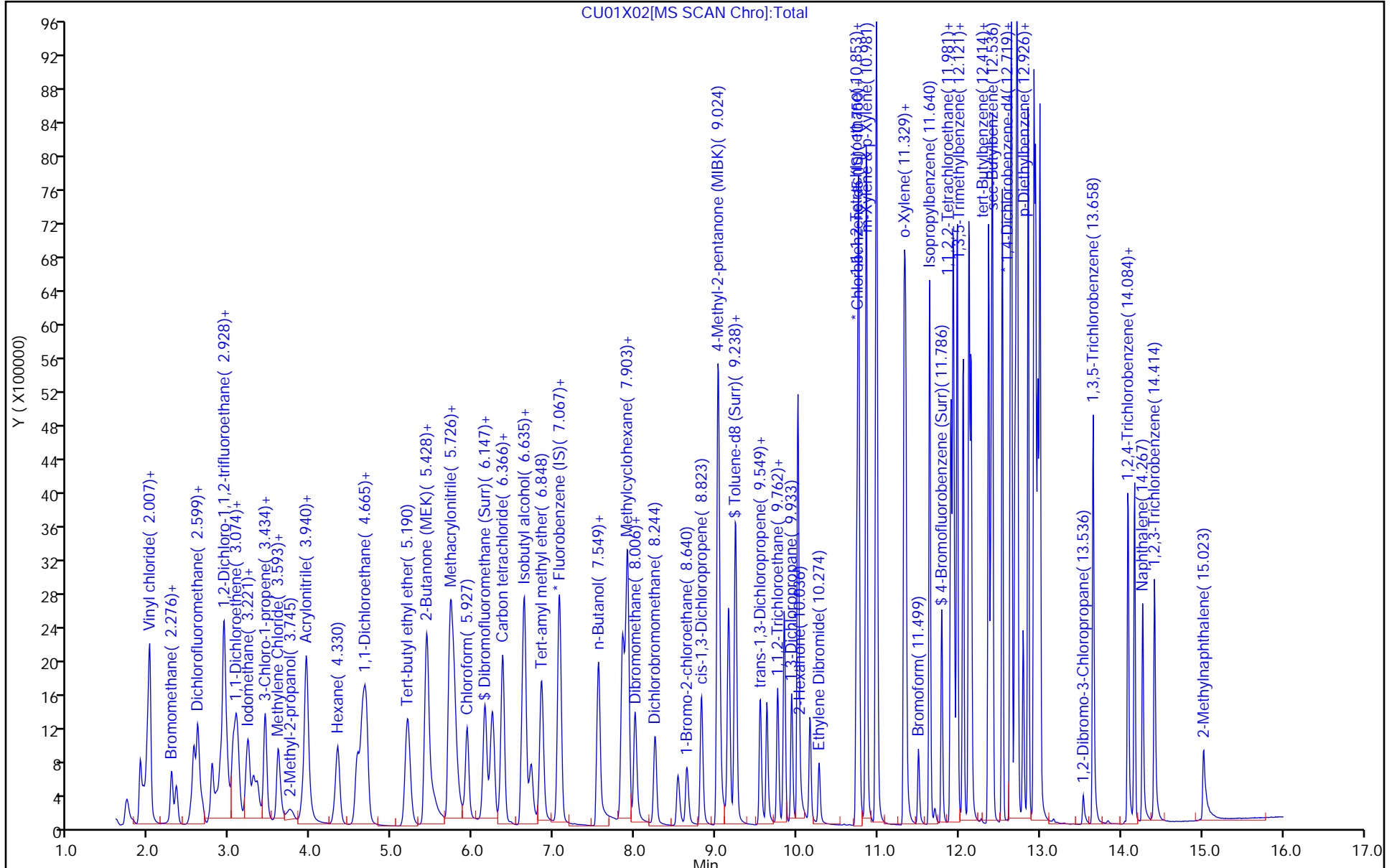
ALS Bottle#: 2

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

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



Eurofins Lancaster Laboratories Environment Testing, LLC

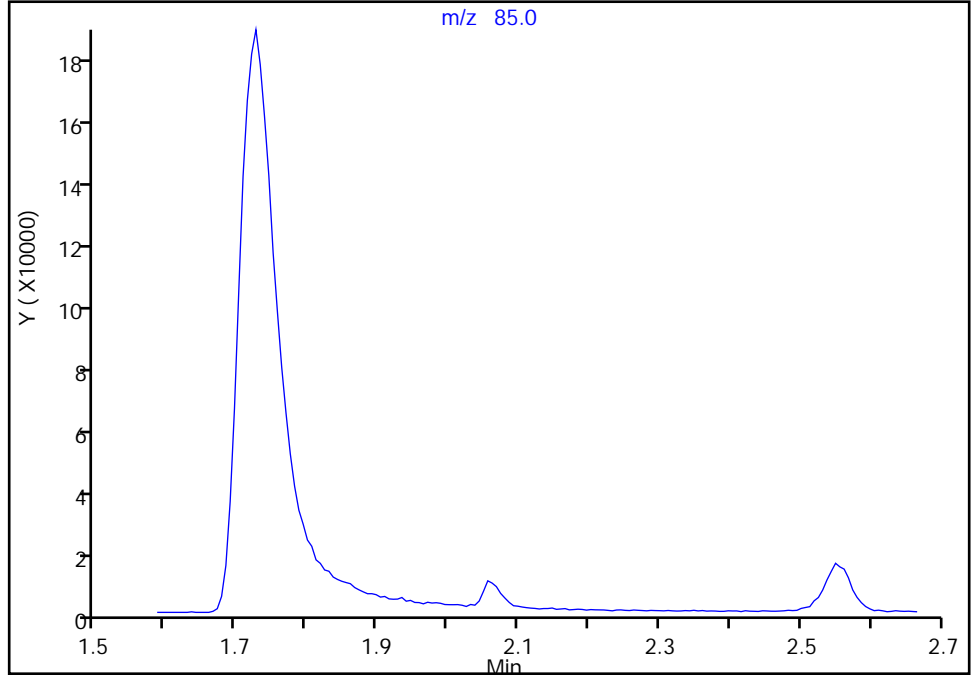
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Injection Date: 01-Jun-2023 20:41:30 Instrument ID: 10193
Lims ID: CCVIS VSTD12.5
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

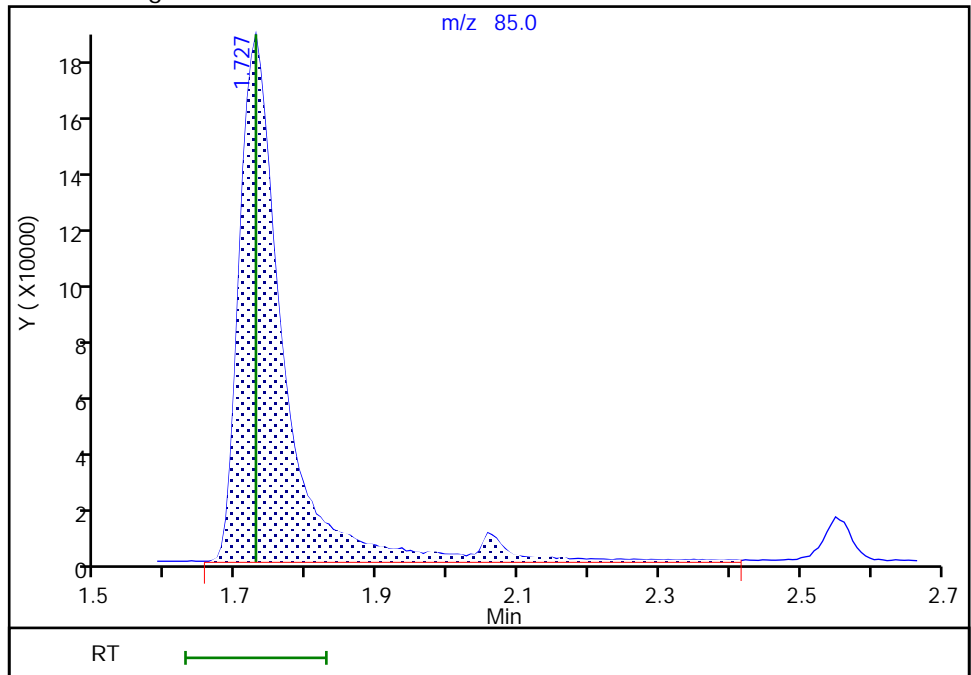
Not Detected
Expected RT: 1.73

Processing Integration Results



Manual Integration Results

RT: 1.73
Area: 789944
Amount: 9.414490
Amount Units: ug/l



Reviewer: JS6E, 01-Jun-2023 21:09:49 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

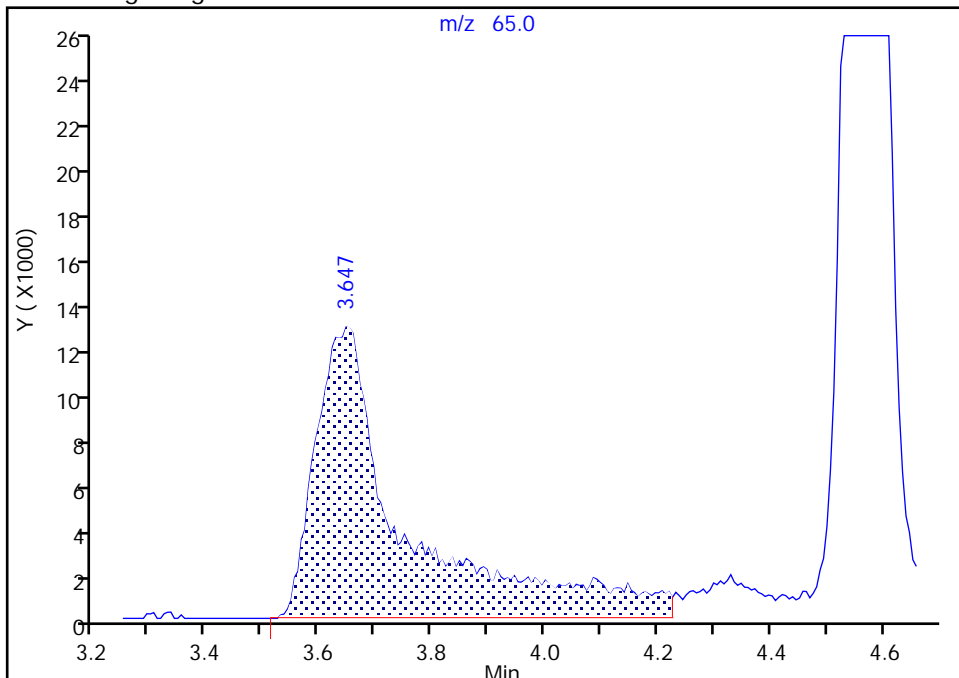
Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01X02.D
Injection Date: 01-Jun-2023 20:41:30 Instrument ID: 10193
Lims ID: CCVIS VSTD12.5
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 31 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

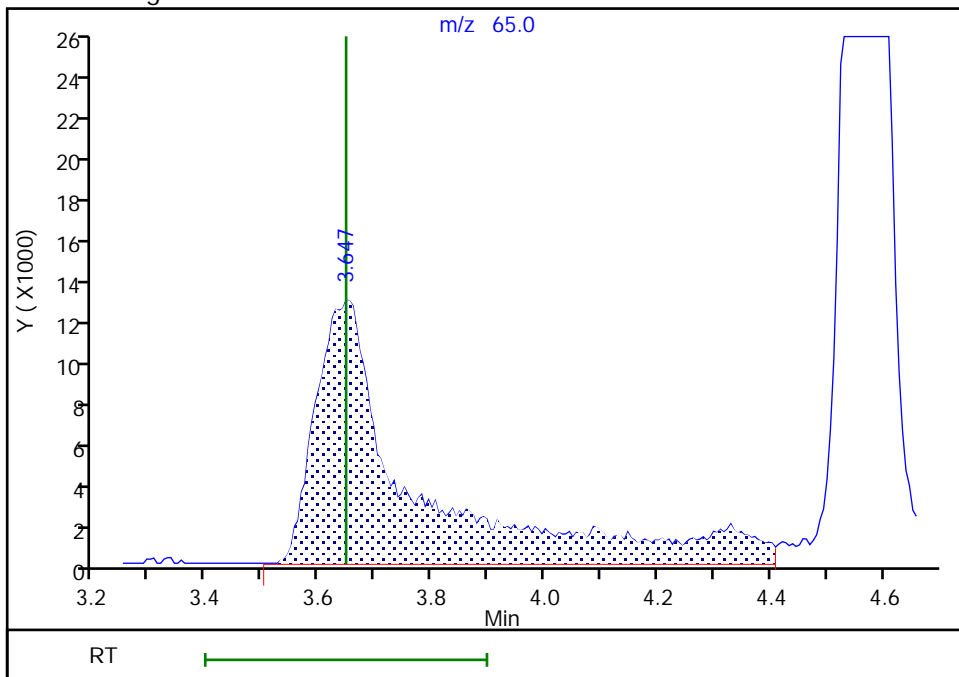
RT: 3.65
Area: 142138
Amount: 50.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.65
Area: 155994
Amount: 50.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 01-Jun-2023 21:12:27 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

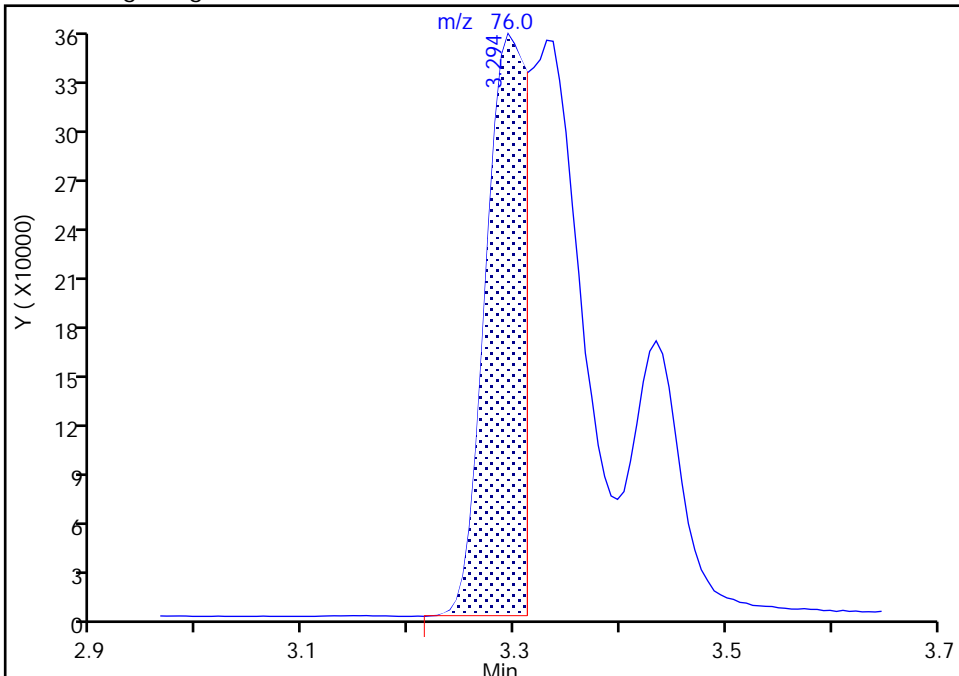
Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01X02.D
Injection Date: 01-Jun-2023 20:41:30 Instrument ID: 10193
Lims ID: CCVIS VSTD12.5
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

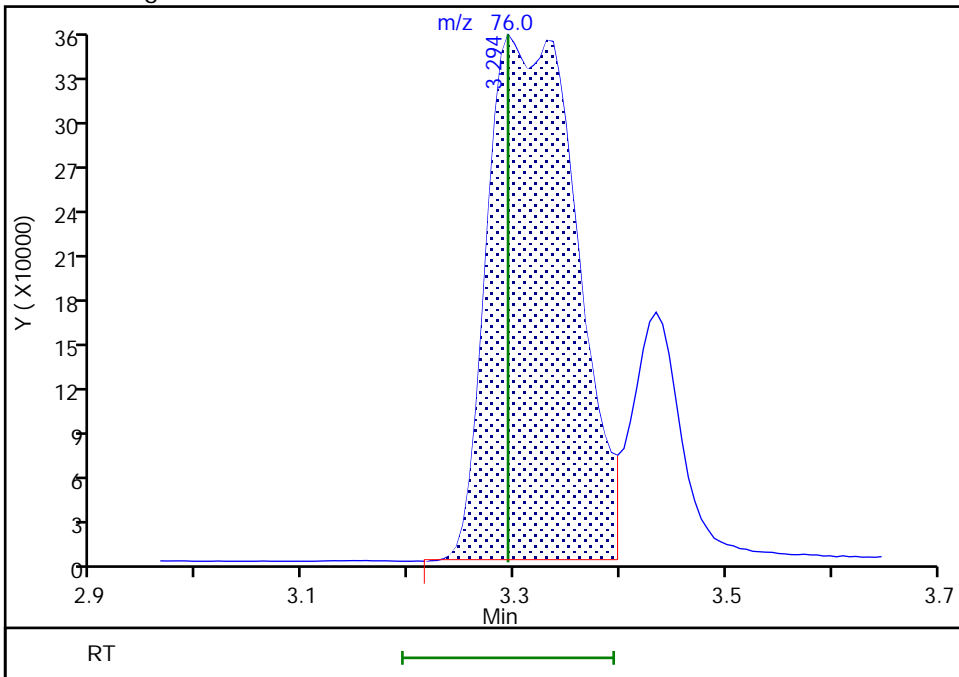
RT: 3.29
Area: 969996
Amount: 4.921470
Amount Units: ug/l

Processing Integration Results



RT: 3.29
Area: 2106932
Amount: 10.689943
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 01-Jun-2023 21:10:21 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

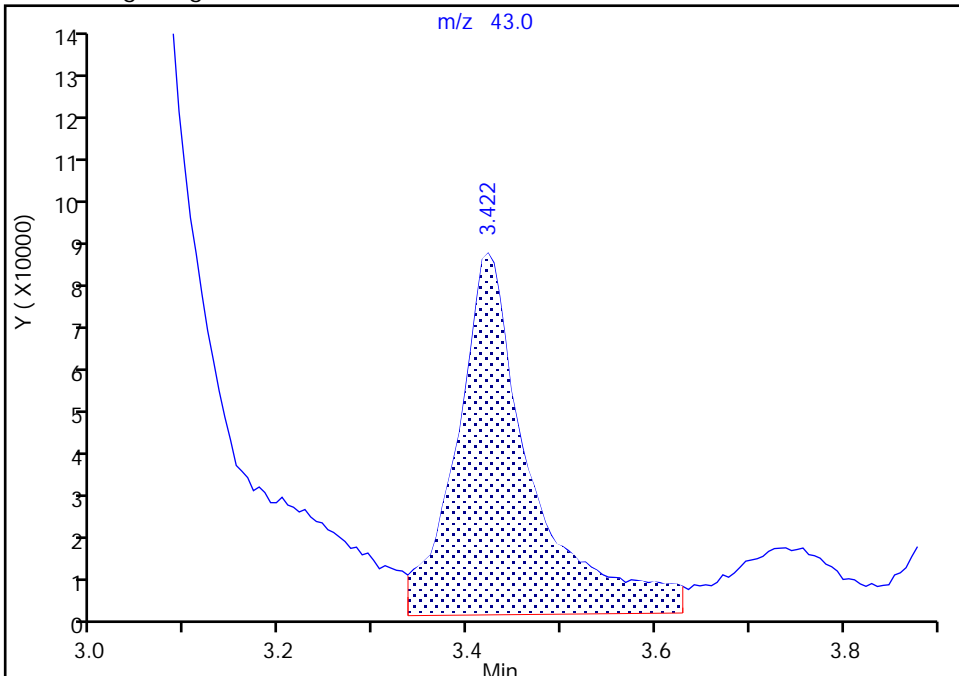
Data File:	\\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01X02.D		
Injection Date:	01-Jun-2023 20:41:30	Instrument ID:	10193
Lims ID:	CCVIS VSTD12.5		
Client ID:			
Operator ID:	gaw91131	ALS Bottle#:	2
Purge Vol:	25.000 mL	Dil. Factor:	1.0000
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D
Column:	Rxi-624Sil MS Capillary Column (0.25mm ID)	Detector:	MS Quad
		Worklist Smp#:	3

26 Methyl acetate, CAS: 79-20-9

Signal: 1

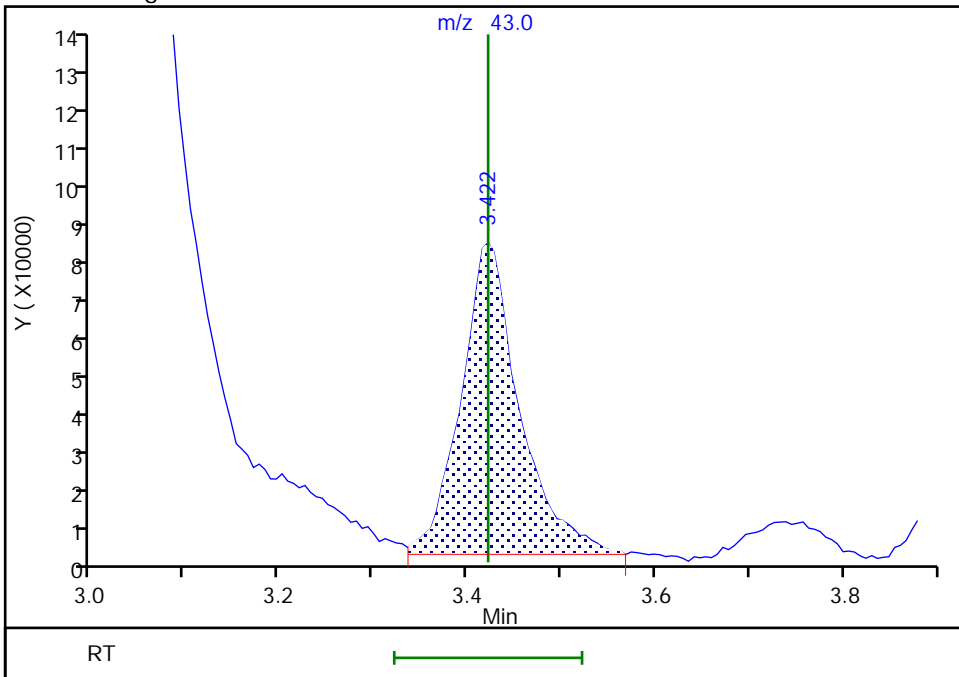
RT: 3.42
 Area: 460010
 Amount: 19.294896
 Amount Units: ug/l

Processing Integration Results



RT: 3.42
 Area: 326813
 Amount: 13.708012
 Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 01-Jun-2023 21:15:46 -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\10193\20230501-82854.b\CY01T01.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 01-May-2023 14:22:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 410-0082854-001
 Misc. Info.: BFB
 Operator ID: knk41612 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 02-May-2023 14:48:38 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1641

First Level Reviewer: DVW2 Date: 02-May-2023 13:42:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 168 BFB	95	4.886	4.886	0.000	90	128279	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

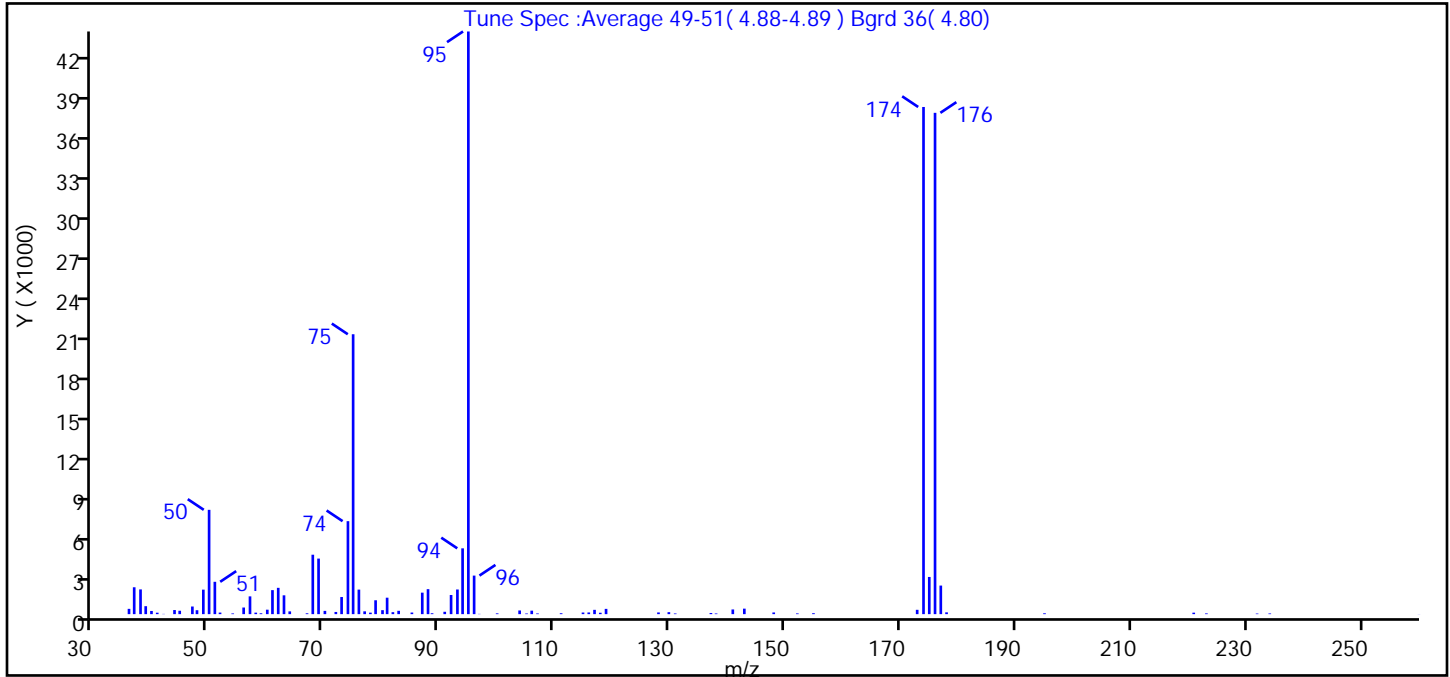
Reagents:

MSV_V_BFB_00011 Amount Added: 1.00 Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01T01.D
 Injection Date: 01-May-2023 14:22:30 Instrument ID: 10193
 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_10193_25mL Limit Group: MSV - 8260C_D
 Tune Method: BFB Method 8260

\$ 168 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.9
75	30 to 60% of m/z 95	48.0
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.7 (0.9)
174	50 to 120% of m/z 95	87.0
175	5 to 9% of m/z 174	6.4 (7.3)
176	Greater than 95% but less than 101% of m/z 174	86.0 (98.8)
177	5 to 9% of m/z 176	4.9 (5.7)

Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01T01.D\MSV_10193_25mL.rslt\spectra.d
 Injection Date: 01-May-2023 14:22:30
 Spectrum: Tune Spec :Average 49-51(4.88-4.89) Bgrd 36(4.80)
 Base Peak: 95.00
 Minimum % Base Peak: 0
 Number of Points: 85

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	391	62.00	1943	89.00	66	137.00	85
37.00	1985	63.00	1390	91.00	175	138.00	50
38.00	1827	64.00	204	92.00	1414	141.00	346
39.00	588	67.00	63	93.00	1821	143.00	406
40.00	234	68.00	4389	94.00	4860	148.00	124
41.00	107	69.00	4103	95.00	43032	152.00	54
42.00	18	70.00	241	96.00	2847	155.00	69
44.00	303	72.00	162	97.00	19	173.00	320
45.00	251	73.00	1264	100.00	58	174.00	37456
47.00	564	74.00	6867	104.00	271	175.00	2746
48.00	290	75.00	20672	105.00	48	176.00	37024
49.00	1810	76.00	1812	106.00	257	177.00	2110
50.00	7704	77.00	207	107.00	51	178.00	134
51.00	2389	78.00	111	111.00	67	195.00	63
52.00	116	79.00	1025	115.00	120	221.00	109
54.00	53	80.00	294	116.00	125	223.00	55
56.00	489	81.00	1215	117.00	318	232.00	44
57.00	1313	82.00	145	118.00	103	234.00	51
58.00	111	83.00	246	119.00	389	260.00	7
59.00	64	85.00	119	128.00	126		
60.00	329	87.00	1587	130.00	146		
61.00	1773	88.00	1845	131.00	50		

Report Date: 02-May-2023 14:48:38

Chrom Revision: 2.3 28-Apr-2023 12:18:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01T01.D

Injection Date: 01-May-2023 14:22:30

Instrument ID: 10193

Operator ID: knk41612

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

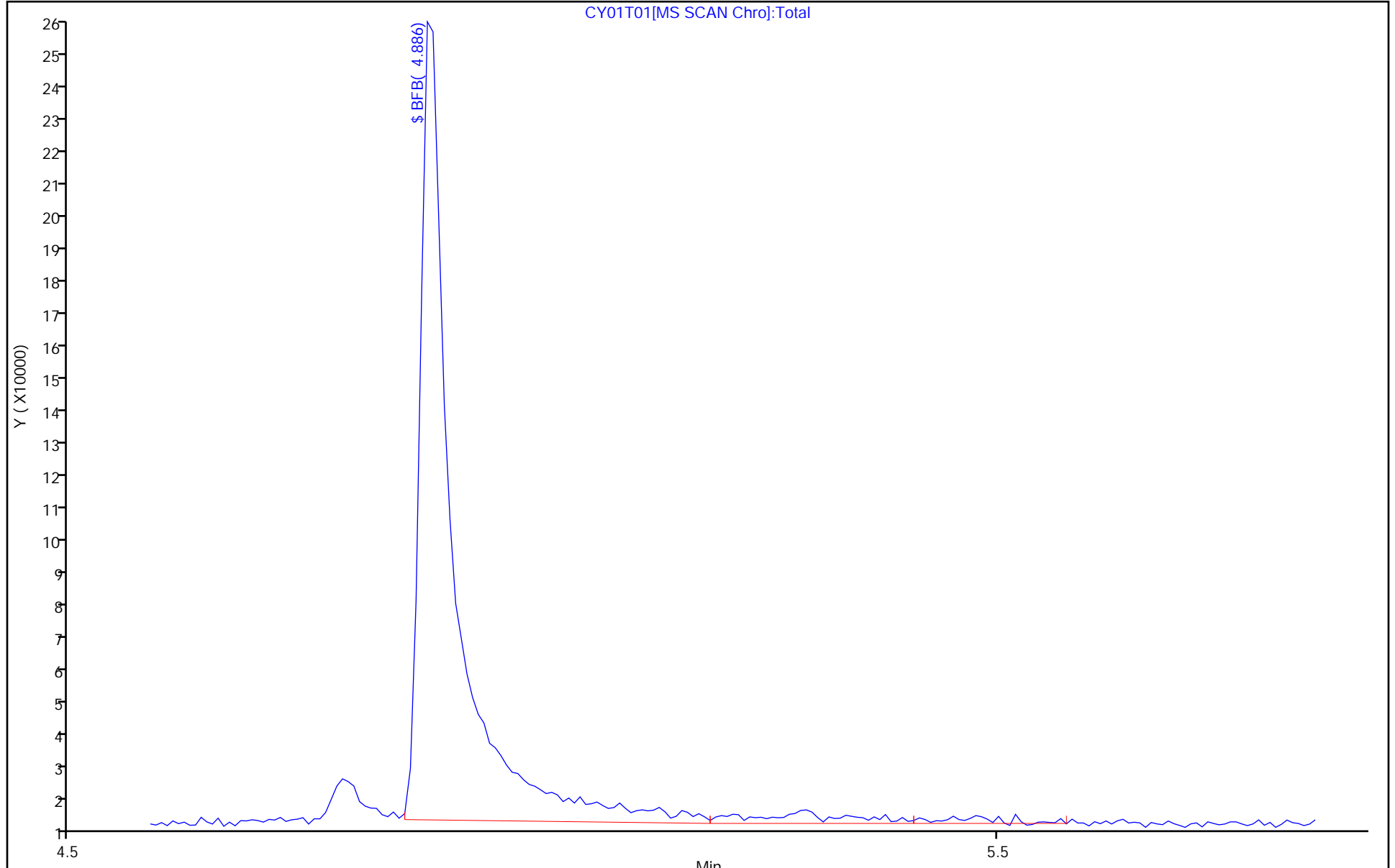
ALS Bottle#: 1

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

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



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31T01.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 31-May-2023 20:33:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 410-0085466-001
 Misc. Info.: BFB
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 31-May-2023 23:53:21 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1635

First Level Reviewer: JS6E Date: 31-May-2023 20:41:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 168 BFB	95	4.916	4.916	0.000	90	230469	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

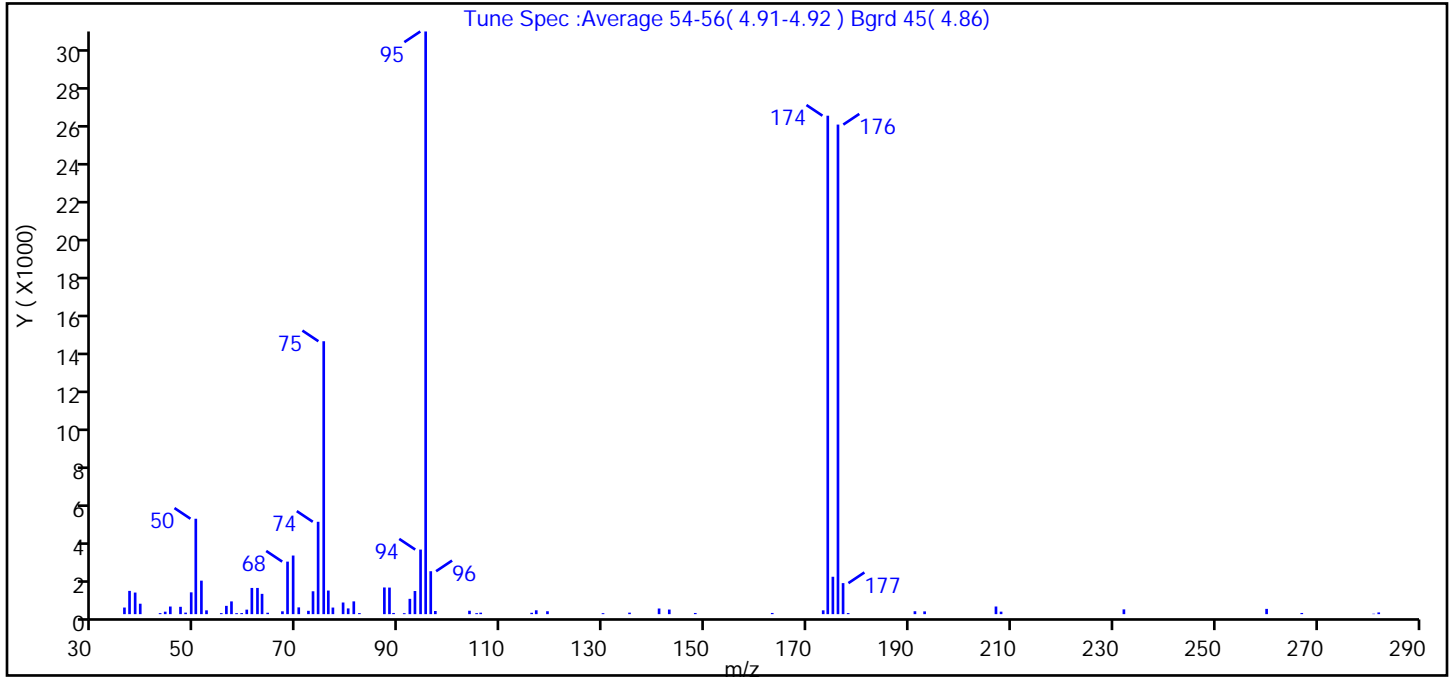
Reagents:

MSV_V_BFB_00011 Amount Added: 1.00 Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31T01.D
 Injection Date: 31-May-2023 20:33:30 Instrument ID: 10193
 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_10193_25mL Limit Group: MSV - 8260C_D
 Tune Method: BFB Method 8260

\$ 168 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.4
75	30 to 60% of m/z 95	46.8
96	5 to 9% of m/z 95	7.4
173	Less than 2% of m/z 174	0.7 (0.8)
174	50 to 120% of m/z 95	85.5
175	5 to 9% of m/z 174	6.4 (7.5)
176	Greater than 95% but less than 101% of m/z 174	84.0 (98.2)
177	5 to 9% of m/z 176	5.3 (6.3)

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31T01.D\MSV_10193_25mL.rslt\spectra.d
 Injection Date: 31-May-2023 20:33:30
 Spectrum: Tune Spec :Average 54-56(4.91-4.92) Bgrd 45(4.86)
 Base Peak: 95.10
 Minimum % Base Peak: 0
 Number of Points: 74

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	345	61.00	1369	88.00	1388	148.00	61
37.00	1215	62.00	1369	89.00	62	163.00	62
38.00	1128	63.00	1060	91.00	50	173.00	199
39.00	545	64.00	74	92.00	800	174.00	26040
43.00	54	67.00	148	93.00	1208	175.00	1953
44.00	129	68.00	2744	94.00	3374	176.00	25576
45.00	398	69.00	3062	95.00	30440	177.00	1621
47.00	383	70.00	353	96.00	2242	178.00	56
48.00	80	72.00	174	97.00	164	191.00	152
49.00	1139	73.00	1195	104.00	178	193.00	144
50.00	4984	74.00	4825	105.00	53	207.00	399
51.00	1750	75.00	14257	106.00	77	208.00	130
52.00	198	76.00	1233	116.00	71	232.00	249
55.00	53	77.00	344	117.00	201	260.00	275
56.00	433	79.00	608	119.00	152	267.00	62
57.00	666	80.00	300	130.00	51	281.00	22
58.00	51	81.00	667	135.00	78	282.00	90
59.00	56	82.00	55	141.00	294		
60.00	235	87.00	1394	143.00	240		

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31T01.D

Injection Date: 31-May-2023 20:33:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

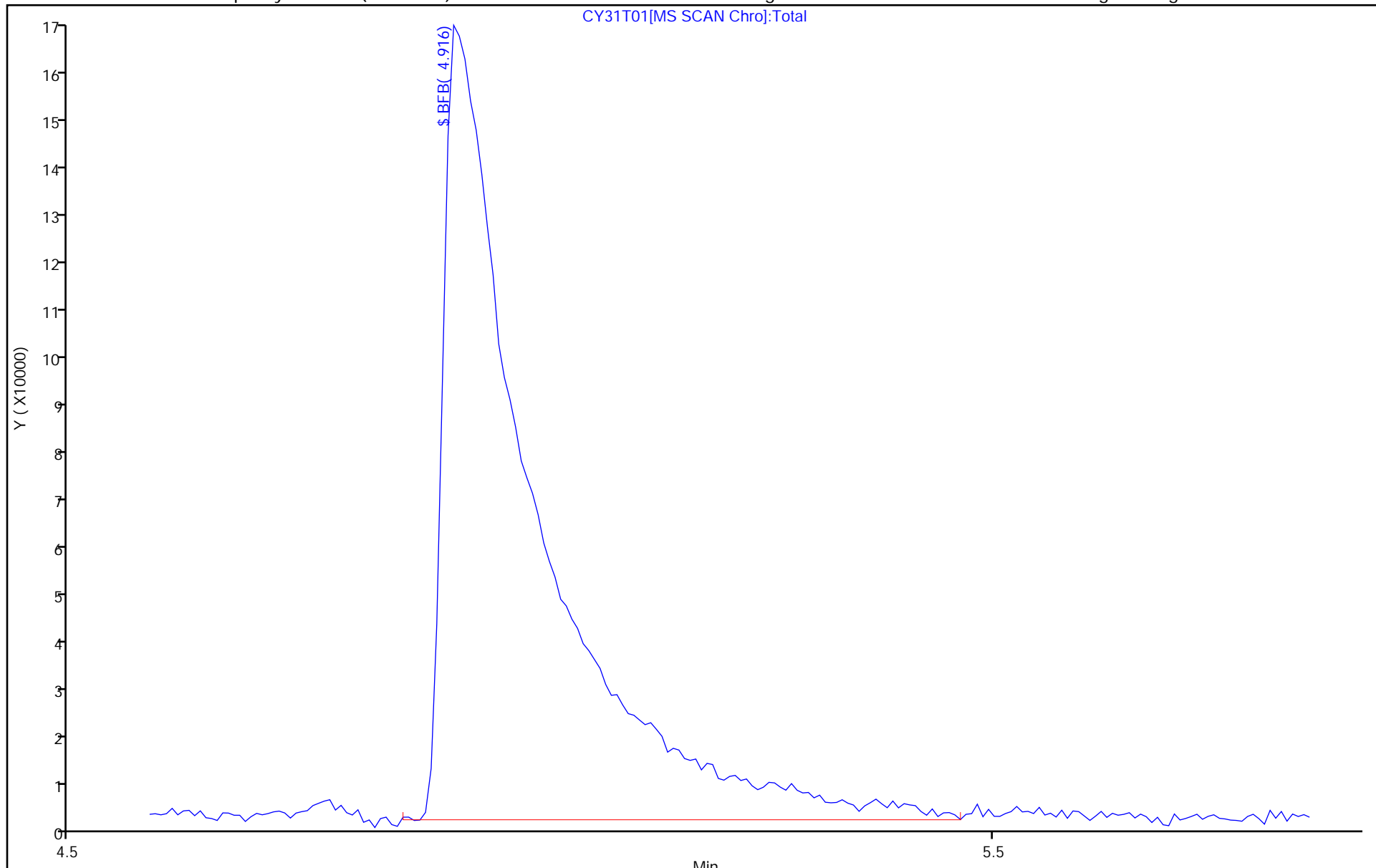
ALS Bottle#: 1

Method: MSV_10193_25mL

Limit Group: MSV - 8260C_D

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

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



Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01T01.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 01-Jun-2023 20:07:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: 410-0085572-001
 Misc. Info.: BFB
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 22:54:32 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1612

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 168 BFB	95	4.947	4.947	0.000	90	169959	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

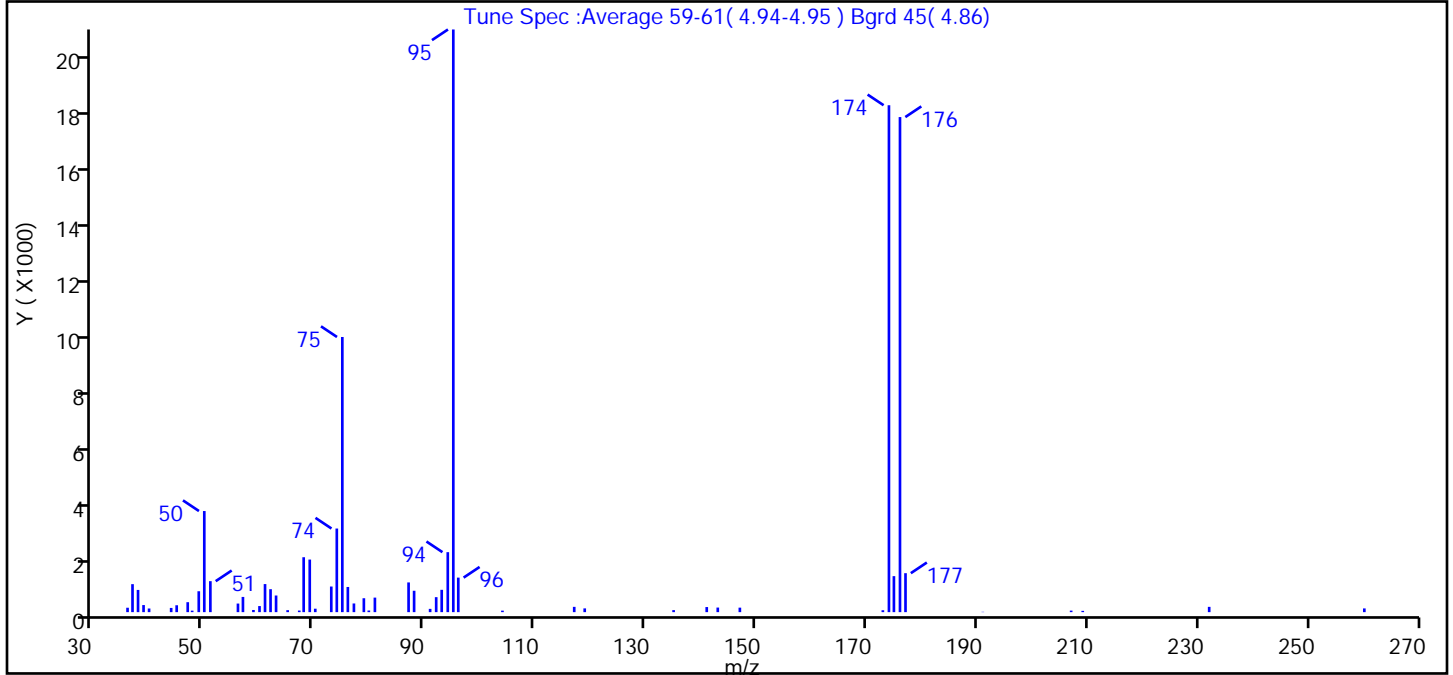
Reagents:

MSV_V_BFB_00011 Amount Added: 1.00 Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01T01.D
 Injection Date: 01-Jun-2023 20:07:30 Instrument ID: 10193
 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_10193_25mL Limit Group: MSV - 8260C_D
 Tune Method: BFB Method 8260

\$ 168 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.4
75	30 to 60% of m/z 95	47.2
96	5 to 9% of m/z 95	5.9
173	Less than 2% of m/z 174	0.3 (0.4)
174	50 to 120% of m/z 95	87.0
175	5 to 9% of m/z 174	6.2 (7.1)
176	Greater than 95% but less than 101% of m/z 174	85.0 (97.7)
177	5 to 9% of m/z 176	6.7 (7.9)

Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01T01.D\MSV_10193_25mL.rsl\spectra.d
 Injection Date: 01-Jun-2023 20:07:30
 Spectrum: Tune Spec :Average 59-61(4.94-4.95) Bgrd 45(4.86)
 Base Peak: 95.10
 Minimum % Base Peak: 0
 Number of Points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	155	60.00	214	80.00	57	143.00	161
37.00	984	61.00	987	81.00	511	147.00	158
38.00	781	62.00	807	87.00	1045	173.00	67
39.00	249	63.00	585	88.00	752	174.00	17824
40.00	128	65.00	69	91.00	115	175.00	1266
44.00	148	67.00	56	92.00	527	176.00	17408
45.00	242	68.00	1931	93.00	785	177.00	1370
47.00	350	69.00	1849	94.00	2109	191.00	11
48.00	53	70.00	121	95.00	20488	207.00	54
49.00	735	73.00	901	96.00	1214	209.00	45
50.00	3555	74.00	2940	104.00	53	232.00	186
51.00	1089	75.00	9675	117.00	186	260.00	131
56.00	302	76.00	885	119.00	132		
57.00	535	77.00	305	135.00	71		
59.00	76	79.00	489	141.00	179		

Report Date: 01-Jun-2023 22:54:32

Chrom Revision: 2.3 23-May-2023 13:55:56

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01T01.D

Injection Date: 01-Jun-2023 20:07:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

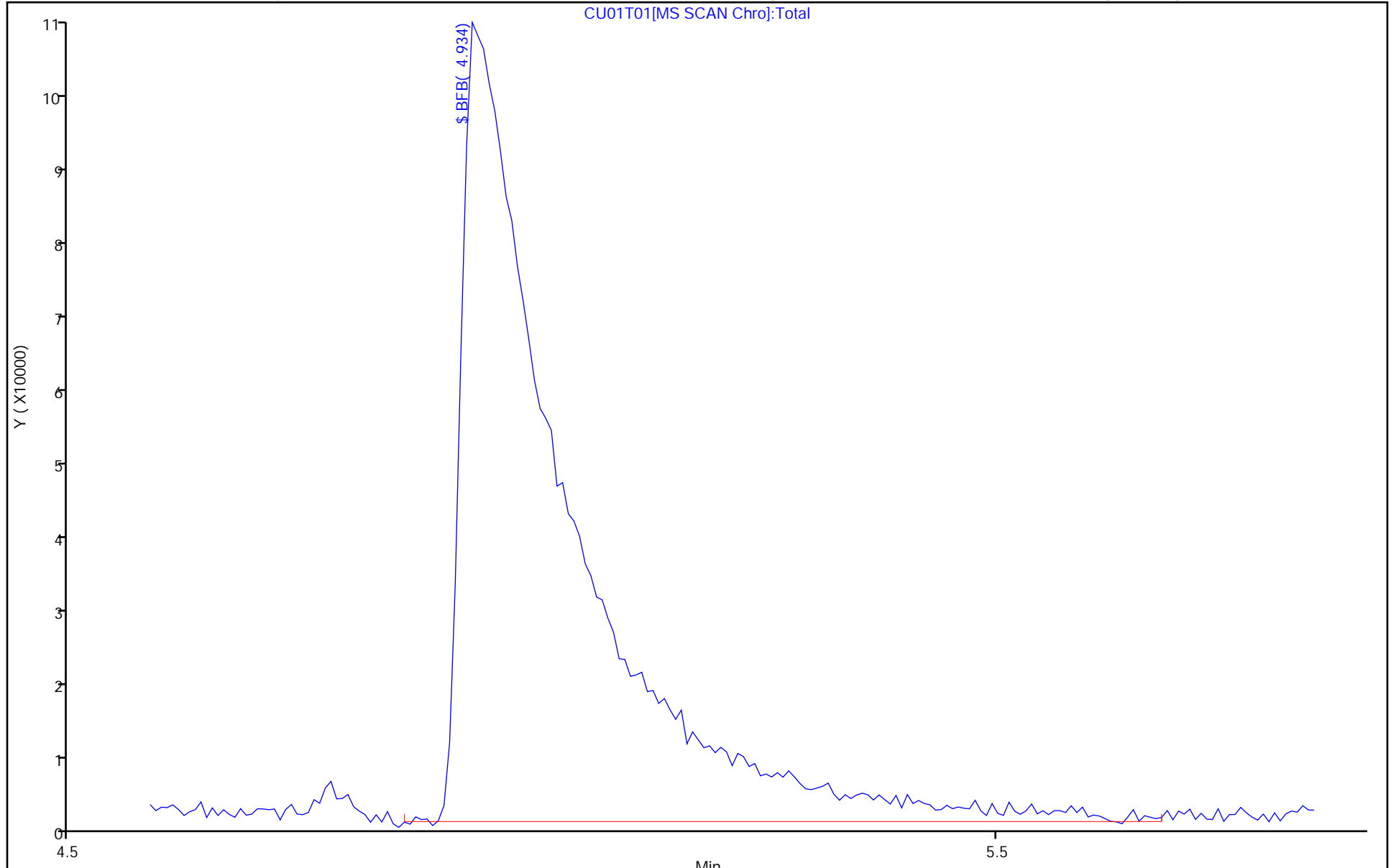
ALS Bottle#: 1

Method: MSV_10193_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.: 410-127761-1

SDG No.:

Client Sample ID:

Lab Sample ID: MB 410-381658/6

Matrix: Water

Lab File ID: CY31X05.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 05/31/2023 22:15

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.: 381658

Units: ug/L

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	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
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	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1
 Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-381658/6

Matrix: Water Lab File ID: CY31X05.D

Analysis Method: 8260D Date Collected: _____

Sample wt/vol: 25 (mL) Date Analyzed: 05/31/2023 22:15

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.: 381658 Units: ug/L

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	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)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	92		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\10193\20230531-85466.b\CY31X05.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 31-May-2023 22:15:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-006
 Misc. Info.: MB
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 14:54:24 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: JS6E

Date: 31-May-2023 22:53:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.684					ND	
2 Dichlorodifluoromethane	85		1.715					ND	
3 Chlorodifluoromethane	51		1.727					ND	7
4 Dimethyl ether	45		1.776					ND	7
5 Chloromethane	50		1.879					ND	7
6 Vinyl chloride	62		1.983					ND	
7 Butadiene	39		1.995					ND	7
8 2-Chloro-1,1,1-Trifluoroethane	118		2.062					ND	
9 Bromomethane	94		2.264					ND	7
10 Chloroethane	64		2.325					ND	
11 Dichlorofluoromethane	67		2.544					ND	7
13 Pentane	43		2.587					ND	U
12 Trichlorofluoromethane	101		2.593					ND	
14 Ethyl ether	59		2.770					ND	
16 1,2-Dichloro-1,1,2-trifluoroethane	67		2.867					ND	
17 Acrolein	56		2.916					ND	MU
18 1,1-Dichloroethene	96		3.032					ND	7
20 Acetone	43		3.062					ND	7
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		3.080					ND	
22 Iodomethane	142		3.190					ND	
23 Ethyl bromide	108		3.215					ND	
24 Isopropyl alcohol	45		3.215					ND	U
25 Carbon disulfide	76		3.276					ND	7
26 Methyl acetate	43		3.410					ND	7
29 3-Chloro-1-propene	41		3.422					ND	
27 Acetonitrile	41		3.440					ND	7
30 Methylene Chloride	84		3.580					ND	
* 31 t-Butyl alcohol-d10 (IS)	65	3.660	3.641	0.019	96	186813	50.0	50.0	
32 2-Methyl-2-propanol	59	3.769	3.733	0.036	6	4127		1.15	
33 Acrylonitrile	53		3.891					ND	
34 Methyl tert-butyl ether	73		3.928					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 trans-1,2-Dichloroethene	96		3.934					ND	
36 Hexane	57		4.318					ND	
37 1,1-Dichloroethane	63		4.556					ND	
38 Vinyl acetate	43		4.568					ND	7
39 Isopropyl ether	45		4.623					ND	
40 2-Chloro-1,3-butadiene	53		4.672					ND	
41 Tert-butyl ethyl ether	59		5.184					ND	7
42 2-Butanone (MEK)	43		5.409					ND	7
43 cis-1,2-Dichloroethene	96		5.421					ND	
44 2,2-Dichloropropane	77		5.428					ND	7
46 Ethyl acetate	43		5.494					ND	U
45 Propionitrile	54		5.507					ND	
47 Methacrylonitrile	67		5.714					ND	
48 Chlorobromomethane	128		5.757					ND	
49 Tetrahydrofuran	71		5.793					ND	
50 Chloroform	83		5.921					ND	
51 Methyl acrylate	55		6.013					ND	
53 1,1,1-Trichloroethane	97		6.135					ND	
\$ 54 Dibromofluoromethane (Surr)	113	6.153	6.141	0.012	94	448884	10.0	9.16	
S 52 1,2-Dichloroethene, Total	100		6.155					ND	7
55 Cyclohexane	56		6.232					ND	
56 Carbon tetrachloride	117		6.348					ND	
57 1,1-Dichloropropene	75		6.366					ND	7
58 Isobutyl alcohol	41		6.598					ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.616	6.604	0.012	100	95099	10.0	9.85	
60 Benzene	78		6.629					ND	
61 1,2-Dichloroethane	62		6.714					ND	
63 Isopropyl acetate	43		6.756					ND	
62 1-Chlorobutane	56		6.781					ND	
64 Tert-amyl methyl ether	73		6.842					ND	
* 65 Fluorobenzene (IS)	96	7.061	7.049	0.012	99	1881460	10.0	10.0	
66 n-Heptane	43		7.068					ND	7
67 n-Butanol	56		7.525					ND	
68 Trichloroethene	95		7.543					ND	
69 Methylcyclohexane	83		7.842					ND	
70 1,2-Dichloropropane	63		7.878					ND	
71 2-ethoxy-2-methyl butane	87		7.903					ND	
73 Methyl methacrylate	69		7.994					ND	
74 1,4-Dioxane	88		8.000					ND	
72 Dibromomethane	93		8.000					ND	
75 n-Propyl acetate	61		8.104					ND	
76 Dichlorobromomethane	83		8.244					ND	
77 2-Nitropropane	41		8.531					ND	7
78 1-Bromo-2-chloroethane	63		8.640					ND	
79 2-Chloroethyl vinyl ether	63		8.646					ND	
80 cis-1,3-Dichloropropene	75		8.817					ND	7
82 4-Methyl-2-pentanone (MIBK)	43		9.024					ND	7
81 Chloroacetonitrile	75	9.152	9.067	0.085	31	766		NC	
\$ 83 Toluene-d8 (Surr)	98	9.158	9.152	0.006	93	1959799	10.0	10.4	
84 Toluene	92		9.238					ND	7
85 trans-1,3-Dichloropropene	75		9.543					ND	7
86 Ethyl methacrylate	69		9.628					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
87 1,1,2-Trichloroethane	97		9.762					ND	
88 Tetrachloroethene	166		9.841					ND	
89 1,3-Dichloropropane	76		9.933					ND	
106 2-Hexanone	43		10.006					ND	
S 107 1,3-Dichloropropene, Total	100		10.060					ND	7
109 n-Butyl acetate	43		10.158					ND	
108 Chlorodibromomethane	129		10.158					ND	
110 Ethylene Dibromide	107		10.268					ND	
* 111 Chlorobenzene-d5 (IS)	117	10.737	10.738	-0.001	85	1578840	10.0	10.0	
112 1-Chlorohexane	91		10.756					ND	7
113 Chlorobenzene	112		10.762					ND	
114 1,1,1,2-Tetrachloroethane	131		10.853					ND	
115 Ethylbenzene	91		10.859					ND	
116 m-Xylene & p-Xylene	106		10.981					ND	
S 117 Xylenes, Total	106		11.245					ND	7
118 o-Xylene	106		11.323					ND	
119 Styrene	104		11.341					ND	
120 Bromoform	173		11.500					ND	
121 Isopropylbenzene	105		11.640					ND	
123 Cyclohexanone	55		11.737					ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.786	0.006	93	780019	10.0	9.68	M
122 cis-1,4-Dichloro-2-butene	88		11.792					ND	U
126 1,1,2,2-Tetrachloroethane	83		11.902					ND	
125 Bromobenzene	156		11.902					ND	
127 trans-1,4-Dichloro-2-butene	53		11.926					ND	
128 1,2,3-Trichloropropane	110		11.945					ND	
129 N-Propylbenzene	91		11.975					ND	
130 2-Chlorotoluene	126		12.054					ND	
131 1,3,5-Trimethylbenzene	105		12.121					ND	
132 4-Chlorotoluene	126		12.152					ND	
133 tert-Butylbenzene	134		12.365					ND	
134 Pentachloroethane	167		12.396					ND	
135 1,2,4-Trimethylbenzene	105		12.414					ND	7
136 sec-Butylbenzene	105		12.536					ND	
137 1,3-Dichlorobenzene	146		12.633					ND	7
138 4-Isopropyltoluene	119		12.646					ND	7
* 139 1,4-Dichlorobenzene-d4	152	12.694	12.688	0.006	94	866764	10.0	10.0	
140 1,4-Dichlorobenzene	146		12.707					ND	7
141 1,2,3-Trimethylbenzene	120		12.719					ND	7
142 Benzyl chloride	126		12.792					ND	7
145 p-Diethylbenzene	119		12.926					ND	
143 n-Butylbenzene	92		12.944					ND	
144 1,2-Dichlorobenzene	146		12.975					ND	
147 Hexachloroethane	117		13.444					ND	
148 1,2-Dibromo-3-Chloropropane	155		13.536					ND	
149 1,3,5-Trichlorobenzene	180		13.658					ND	7
150 1,2,4-Trichlorobenzene	180		14.091					ND	
151 Hexachlorobutadiene	225		14.170					ND	7
152 Naphthalene	128		14.267					ND	
153 1,2,3-Trichlorobenzene	180		14.414					ND	
154 2-Methylnaphthalene	142		15.023					ND	
155 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
156 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
157 tert-Butyl Formate	1		0.000					ND	
158 2-Bromo-1-chloropropane	1		0.000					ND	
159 1-Chloropropane	1		0.000					ND	
160 1,1-Dichloroacetone	1		0.000					ND	
161 Methylal	1		0.000					ND	
162 Propene oxide	1		0.000					ND	
163 t-Amyl alcohol	1		0.000					ND	
164 Ethanol	45		0.000					ND	
165 n-Decane	57		0.000					ND	
166 1-Bromo-3-Chloropropane	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_HP25_ISSS_00070

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X05.D

Injection Date: 31-May-2023 22:15:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

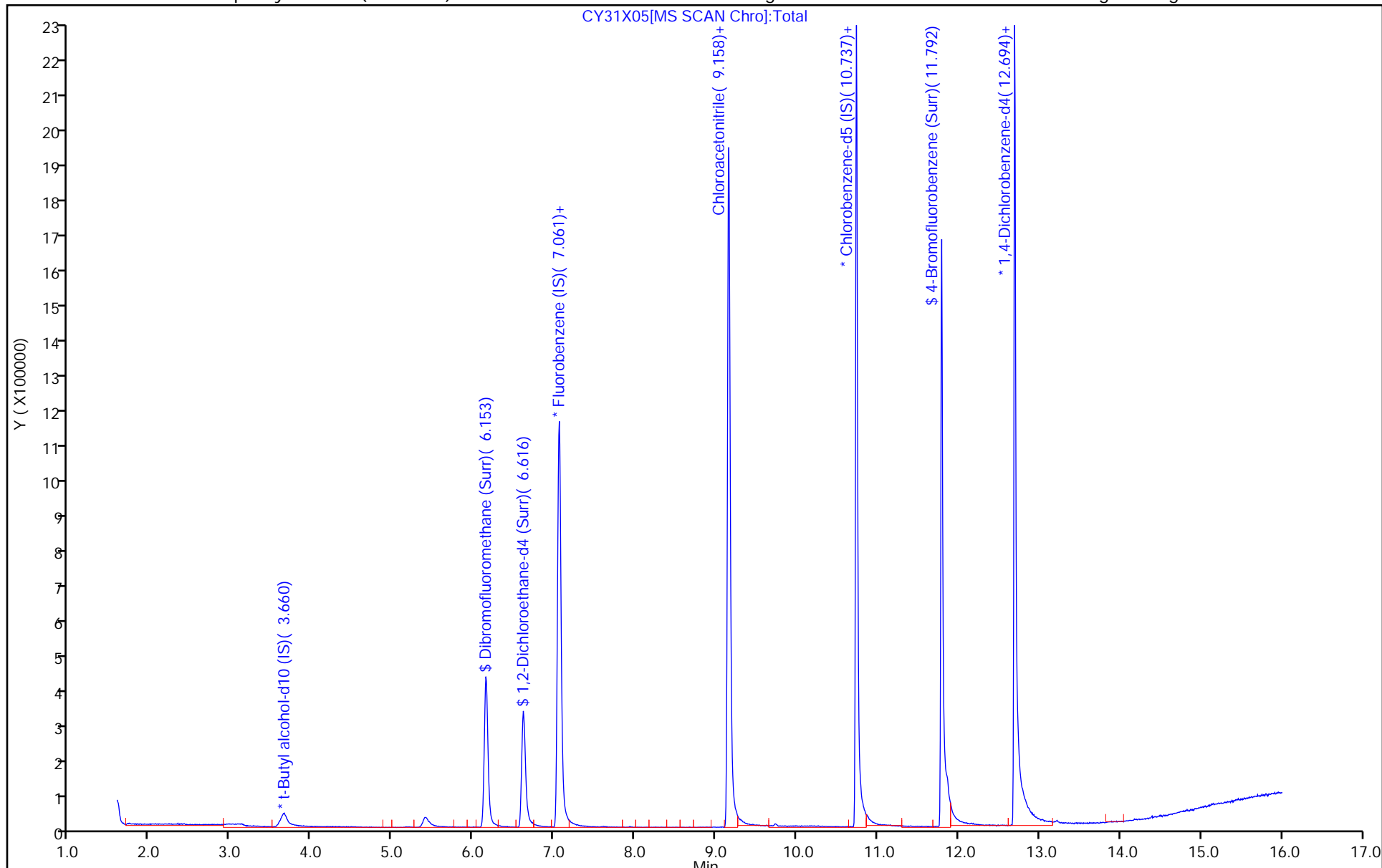
ALS Bottle#: 5

Method: MSV_10193_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\10193\20230531-85466.b\CY31X05.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 31-May-2023 22:15:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-006
 Misc. Info.: MB
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 14:54:24 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: JS6E

Date: 31-May-2023 22:53:06

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.16	91.61
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.85	98.48
\$ 83 Toluene-d8 (Surr)	10.0	10.4	103.93
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.68	96.78

Eurofins Lancaster Laboratories Environment Testing, LLC

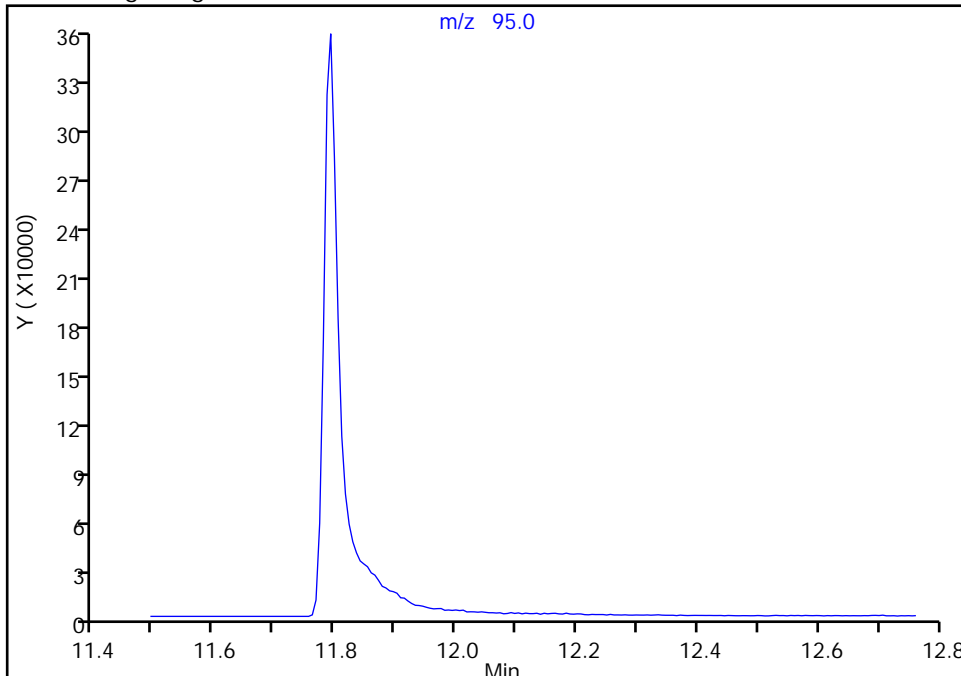
Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X05.D
Injection Date: 31-May-2023 22:15:30 Instrument ID: 10193
Lims ID: MB
Client ID:
Operator ID: gaw91131 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

\$ 124 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Signal: 1

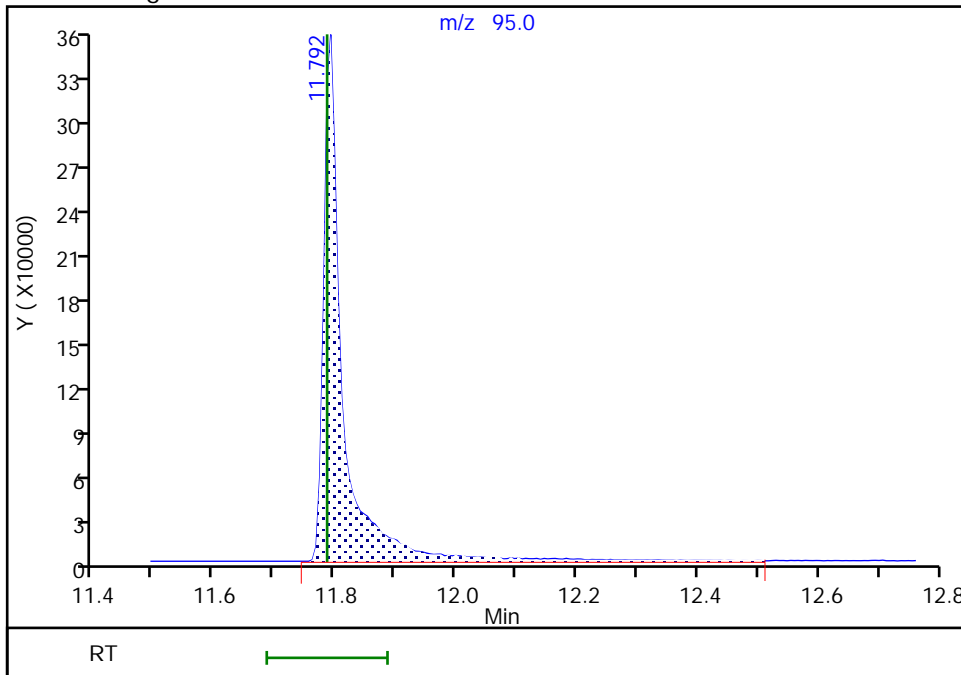
Not Detected
Expected RT: 11.79

Processing Integration Results



Manual Integration Results

RT: 11.79
Area: 780019
Amount: 9.678360
Amount Units: ug/l



Reviewer: JS6E, 31-May-2023 22:39:05 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Missed Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

Client Sample ID:

Lab Sample ID: MB 410-382118/7

Matrix: Water

Lab File ID: CU01X06.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 22:13

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.: 382118

Units: ug/L

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	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
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	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-382118/7

Matrix: Water Lab File ID: CU01X06.D

Analysis Method: 8260D Date Collected: _____

Sample wt/vol: 25 (mL) Date Analyzed: 06/01/2023 22:13

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.: 382118 Units: ug/L

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	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)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	89		80-120
2037-26-5	Toluene-d8 (Surr)	112		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01X06.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 01-Jun-2023 22:13:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085572-007
 Misc. Info.: MB
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 05-Jun-2023 10:17:03 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1679

First Level Reviewer: JS6E Date: 01-Jun-2023 22:52:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.684					ND	
3 Chlorodifluoromethane	51		1.727					ND	7
2 Dichlorodifluoromethane	85		1.727					ND	
4 Dimethyl ether	45		1.776					ND	7
5 Chloromethane	50		1.892					ND	7
6 Vinyl chloride	62		1.989					ND	
7 Butadiene	39		2.007					ND	7
8 2-Chloro-1,1,1-Trifluoroethane	118		2.062					ND	
9 Bromomethane	94		2.276					ND	
10 Chloroethane	64		2.337					ND	
11 Dichlorofluoromethane	67		2.556					ND	7
13 Pentane	43		2.599					ND	U
12 Trichlorofluoromethane	101		2.605					ND	
14 Ethyl ether	59		2.776					ND	
16 1,2-Dichloro-1,1,2-trifluoroethane	67		2.873					ND	7
17 Acrolein	56		2.928					ND	MU
18 1,1-Dichloroethene	96		3.044					ND	7
20 Acetone	43	3.117	3.074	0.043	36	4989		0.6243	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		3.093					ND	
22 Iodomethane	142		3.208					ND	
23 Ethyl bromide	108		3.227					ND	
24 Isopropyl alcohol	45	3.276	3.227	0.049	8	3469		2.24	M
25 Carbon disulfide	76		3.294					ND	7
26 Methyl acetate	43		3.422					ND	7
29 3-Chloro-1-propene	41		3.434					ND	7
27 Acetonitrile	41		3.440					ND	
30 Methylene Chloride	84		3.599					ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.635	3.647	-0.012	97	167710	50.0	50.0	
32 2-Methyl-2-propanol	59	3.739	3.745	-0.006	1	2187		0.6801	
33 Acrylonitrile	53		3.891					ND	
34 Methyl tert-butyl ether	73		3.940					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 trans-1,2-Dichloroethene	96		3.940					ND	
36 Hexane	57		4.330					ND	
38 Vinyl acetate	43		4.568					ND	
37 1,1-Dichloroethane	63		4.568					ND	
39 Isopropyl ether	45		4.641					ND	
40 2-Chloro-1,3-butadiene	53		4.684					ND	
41 Tert-butyl ethyl ether	59		5.190					ND	
42 2-Butanone (MEK)	43		5.421					ND	
43 cis-1,2-Dichloroethene	96		5.428					ND	
44 2,2-Dichloropropane	77		5.440					ND	7
46 Ethyl acetate	43		5.494					ND	7
45 Propionitrile	54		5.519					ND	
47 Methacrylonitrile	67		5.720					ND	
48 Chlorobromomethane	128		5.769					ND	
49 Tetrahydrofuran	71		5.793					ND	
50 Chloroform	83		5.927					ND	
51 Methyl acrylate	55		6.013					ND	
53 1,1,1-Trichloroethane	97		6.147					ND	
\$ 54 Dibromofluoromethane (Surr)	113	6.153	6.147	0.006	94	483840	10.0	8.86	
S 52 1,2-Dichloroethene, Total	100		6.155					ND	7
55 Cyclohexane	56		6.238					ND	
56 Carbon tetrachloride	117		6.360					ND	
57 1,1-Dichloropropene	75		6.372					ND	
58 Isobutyl alcohol	41		6.604					ND	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.610	6.616	-0.006	100	104333	10.0	9.69	
60 Benzene	78		6.635					ND	7
61 1,2-Dichloroethane	62		6.720					ND	7
63 Isopropyl acetate	43		6.756					ND	
62 1-Chlorobutane	56	7.007	6.781	0.226	1	203		NC	
64 Tert-amyl methyl ether	73		6.848					ND	
* 65 Fluorobenzene (IS)	96	7.055	7.061	-0.006	99	2096671	10.0	10.0	
66 n-Heptane	43		7.074					ND	7
67 n-Butanol	56		7.531					ND	
68 Trichloroethene	95		7.549					ND	
69 Methylcyclohexane	83		7.842					ND	
70 1,2-Dichloropropane	63		7.884					ND	
71 2-ethoxy-2-methyl butane	87		7.909					ND	
73 Methyl methacrylate	69		8.000					ND	
72 Dibromomethane	93		8.000					ND	
74 1,4-Dioxane	88		8.006					ND	
75 n-Propyl acetate	61		8.104					ND	
76 Dichlorobromomethane	83		8.244					ND	
77 2-Nitropropane	41		8.531					ND	7
78 1-Bromo-2-chloroethane	63		8.640					ND	
79 2-Chloroethyl vinyl ether	63		8.646					ND	
80 cis-1,3-Dichloropropene	75		8.823					ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.024					ND	7
81 Chloroacetonitrile	75	9.165	9.067	0.098	31	580		NC	
\$ 83 Toluene-d8 (Surr)	98	9.159	9.152	0.007	93	2139999	10.0	11.2	
84 Toluene	92		9.244					ND	
85 trans-1,3-Dichloropropene	75		9.549					ND	7
86 Ethyl methacrylate	69		9.628					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
87 1,1,2-Trichloroethane	97		9.762					ND	
88 Tetrachloroethene	166		9.841					ND	
89 1,3-Dichloropropane	76		9.933					ND	
106 2-Hexanone	43		10.012					ND	
S 107 1,3-Dichloropropene, Total	100		10.060					ND	7
109 n-Butyl acetate	43		10.158					ND	
108 Chlorodibromomethane	129		10.158					ND	
110 Ethylene Dibromide	107		10.274					ND	
* 111 Chlorobenzene-d5 (IS)	117	10.738	10.737	0.001	86	1596637	10.0	10.0	
112 1-Chlorohexane	91		10.756					ND	7
113 Chlorobenzene	112		10.762					ND	
114 1,1,1,2-Tetrachloroethane	131		10.853					ND	
115 Ethylbenzene	91		10.859					ND	
116 m-Xylene & p-Xylene	106		10.981					ND	
S 117 Xylenes, Total	106		11.245					ND	7
118 o-Xylene	106		11.323					ND	
119 Styrene	104		11.341					ND	
120 Bromoform	173		11.499					ND	
121 Isopropylbenzene	105		11.640					ND	
123 Cyclohexanone	55		11.737					ND	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.792	11.786	0.006	92	802082	10.0	9.84	M
122 cis-1,4-Dichloro-2-butene	88		11.792					ND	U
126 1,1,2,2-Tetrachloroethane	83		11.902					ND	
125 Bromobenzene	156		11.902					ND	
127 trans-1,4-Dichloro-2-butene	53		11.926					ND	
128 1,2,3-Trichloropropane	110		11.945					ND	
129 N-Propylbenzene	91		11.981					ND	
130 2-Chlorotoluene	126		12.054					ND	
131 1,3,5-Trimethylbenzene	105		12.121					ND	
132 4-Chlorotoluene	126		12.152					ND	
133 tert-Butylbenzene	134		12.365					ND	
134 Pentachloroethane	167		12.396					ND	
135 1,2,4-Trimethylbenzene	105		12.414					ND	
136 sec-Butylbenzene	105		12.536					ND	
137 1,3-Dichlorobenzene	146		12.633					ND	
138 4-Isopropyltoluene	119		12.652					ND	7
* 139 1,4-Dichlorobenzene-d4	152	12.701	12.688	0.013	94	815105	10.0	10.0	
140 1,4-Dichlorobenzene	146		12.707					ND	7
141 1,2,3-Trimethylbenzene	120		12.725					ND	7
142 Benzyl chloride	126		12.792					ND	7
145 p-Diethylbenzene	119		12.926					ND	U
143 n-Butylbenzene	92		12.944					ND	
144 1,2-Dichlorobenzene	146		12.975					ND	
147 Hexachloroethane	117		13.444					ND	
148 1,2-Dibromo-3-Chloropropane	155		13.536					ND	
149 1,3,5-Trichlorobenzene	180		13.658					ND	
150 1,2,4-Trichlorobenzene	180		14.090					ND	
151 Hexachlorobutadiene	225		14.170					ND	7
152 Naphthalene	128		14.267					ND	
153 1,2,3-Trichlorobenzene	180		14.414					ND	
154 2-Methylnaphthalene	142		15.023					ND	
155 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
156 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
157 tert-Butyl Formate	1		0.000					ND	
158 2-Bromo-1-chloropropane	1		0.000					ND	
159 1-Chloropropane	1		0.000					ND	
160 1,1-Dichloroacetone	1		0.000					ND	
161 Methylal	1		0.000					ND	
162 Propene oxide	1		0.000					ND	
163 t-Amyl alcohol	1		0.000					ND	
164 Ethanol	45		0.000					ND	
165 n-Decane	57		0.000					ND	
166 1-Bromo-3-Chloropropane	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_HP25_ISSS_00071

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01X06.D

Injection Date: 01-Jun-2023 22:13:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

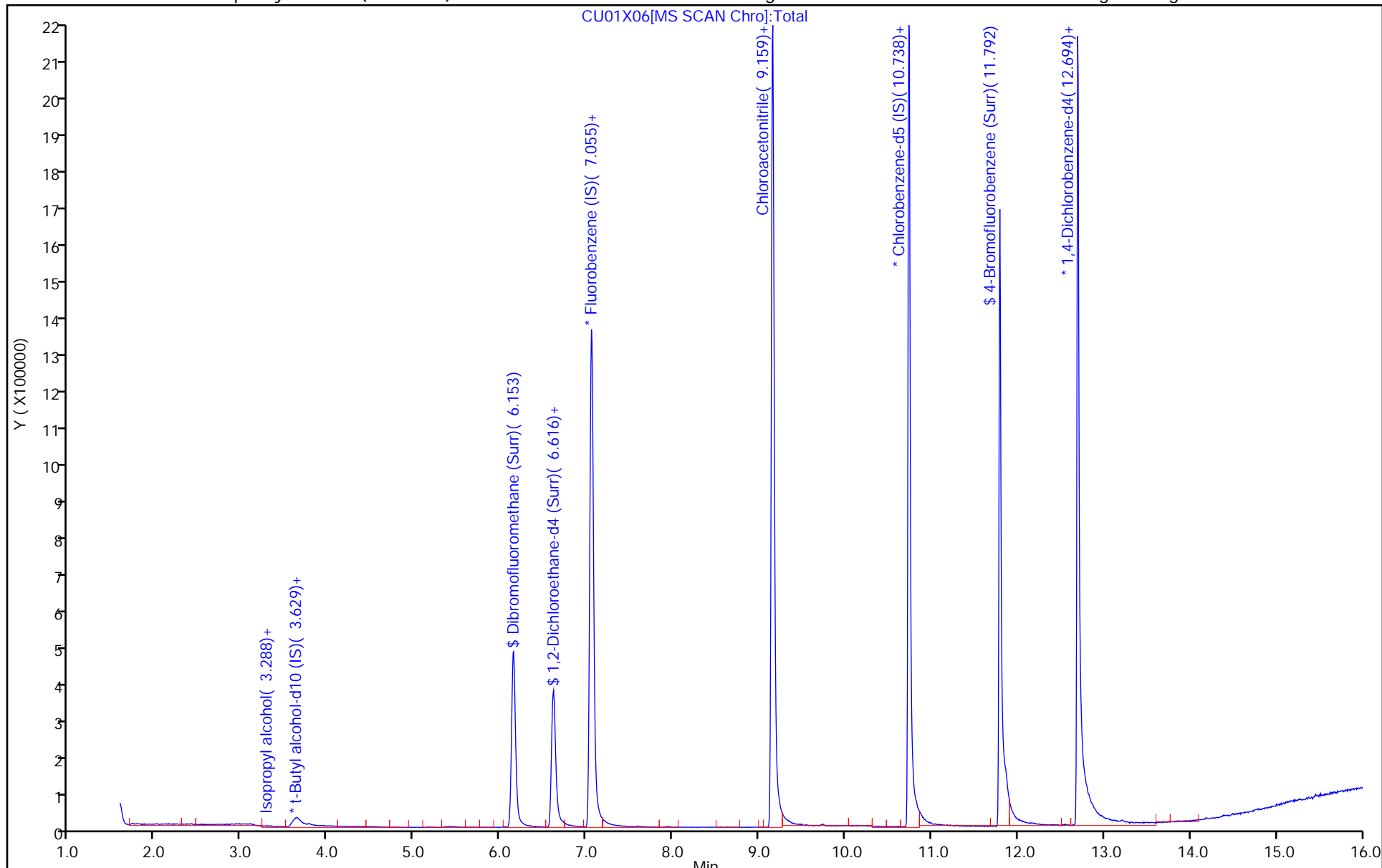
ALS Bottle#: 6

Method: MSV_10193_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\10193\20230601-85572.b\CU01X06.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 01-Jun-2023 22:13:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085572-007
 Misc. Info.: MB
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 05-Jun-2023 10:17:03 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1679

First Level Reviewer: JS6E

Date: 01-Jun-2023 22:52:09

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	8.86	88.61
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.69	96.95
\$ 83 Toluene-d8 (Surr)	10.0	11.2	112.22
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.84	98.41

Euofins Lancaster Laboratories Environment Testing, LLC

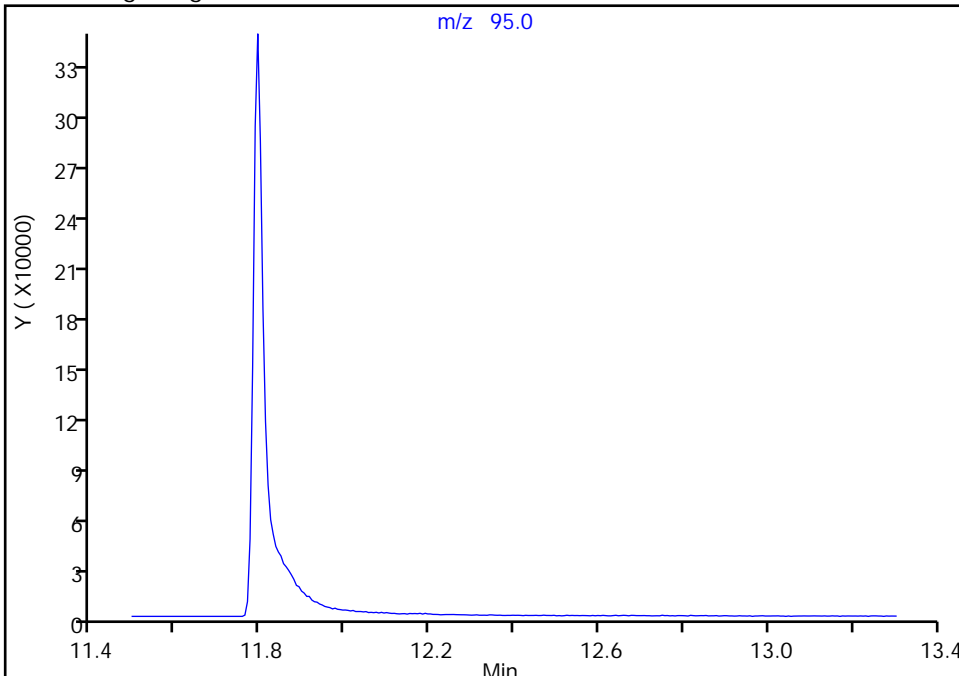
Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01X06.D
Injection Date: 01-Jun-2023 22:13:30 Instrument ID: 10193
Lims ID: MB
Client ID:
Operator ID: gaw91131 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

\$ 124 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Signal: 1

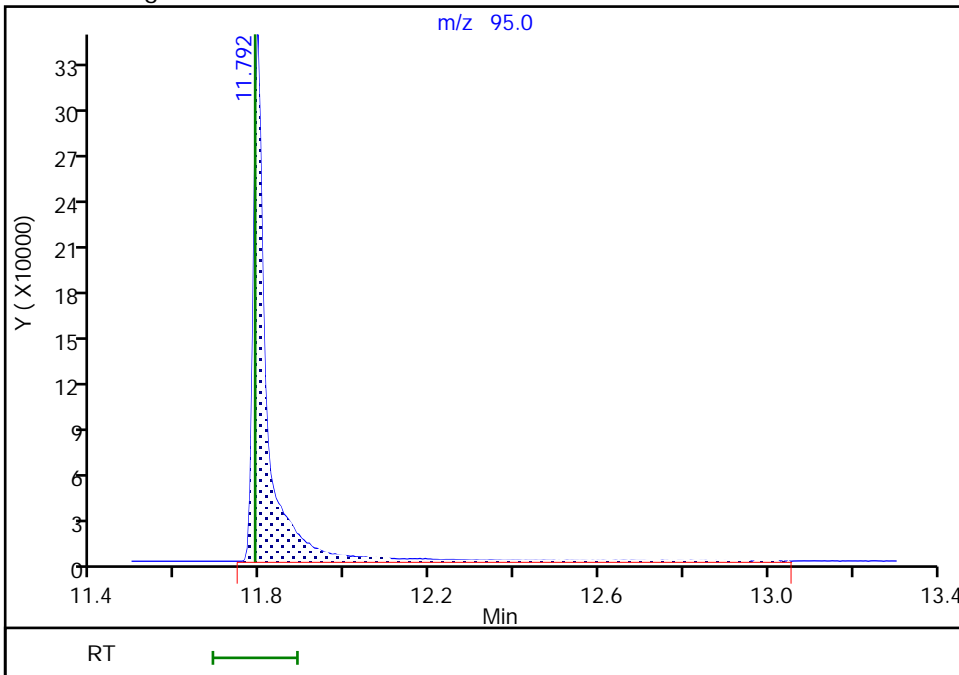
Not Detected
Expected RT: 11.79

Processing Integration Results



Manual Integration Results

RT: 11.79
Area: 802082
Amount: 9.841183
Amount Units: ug/l



Reviewer: JS6E, 01-Jun-2023 22:41:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Missed Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 410-381658/4

Matrix: Water

Lab File ID: CY31X03.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 05/31/2023 21:30

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.: 381658

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.26		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.60		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.75		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.34		0.50	0.080
75-34-3	1,1-Dichloroethane	5.05		0.50	0.10
75-35-4	1,1-Dichloroethene	5.12		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.22		0.50	0.080
107-06-2	1,2-Dichloroethane	4.46		0.50	0.070
78-87-5	1,2-Dichloropropane	5.36		0.50	0.10
78-93-3	2-Butanone (MEK)	65.5		5.0	1.0
591-78-6	2-Hexanone	64.6		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	63.7		5.0	1.0
67-64-1	Acetone	66.4		5.0	1.0
71-43-2	Benzene	5.30		0.50	0.10
74-97-5	Bromochloromethane	4.87		0.50	0.080
75-27-4	Bromodichloromethane	4.78		0.50	0.080
75-25-2	Bromoform	4.59		1.0	0.30
74-83-9	Bromomethane	4.19		0.50	0.10
75-15-0	Carbon disulfide	5.16		1.0	0.10
56-23-5	Carbon tetrachloride	4.55		0.50	0.10
108-90-7	Chlorobenzene	5.27		0.50	0.070
75-00-3	Chloroethane	4.32		0.50	0.10
67-66-3	Chloroform	4.87		0.50	0.090
74-87-3	Chloromethane	4.34		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	5.22		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.75		0.50	0.10
124-48-1	Dibromochloromethane	5.04		0.50	0.080
100-41-4	Ethylbenzene	5.54		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.77		0.50	0.080
75-09-2	Methylene Chloride	5.13		0.50	0.10
100-42-5	Styrene	5.44		0.50	0.070
127-18-4	Tetrachloroethene	4.99		0.50	0.20
108-88-3	Toluene	5.56		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1
 Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-381658/4

Matrix: Water Lab File ID: CY31X03.D

Analysis Method: 8260D Date Collected: _____

Sample wt/vol: 25 (mL) Date Analyzed: 05/31/2023 21:30

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.: 381658 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	4.94		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.31		0.50	0.080
79-01-6	Trichloroethene	4.84		0.50	0.080
75-01-4	Vinyl chloride	4.01		0.50	0.10
1330-20-7	Xylenes, Total	16.4		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	107		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X03.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 31-May-2023 21:30:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-004
 Misc. Info.: LCS
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 14:52:19 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: JS6E

Date: 31-May-2023 21:52:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.721	1.715	0.006	99	285798	5.00	3.81	M
5 Chloromethane	50	1.879	1.879	0.000	99	381677	5.00	4.34	
6 Vinyl chloride	62	1.983	1.983	0.000	98	336971	5.00	4.01	
7 Butadiene	39	2.001	1.995	0.006	91	471014	5.00	6.03	
9 Bromomethane	94	2.270	2.264	0.006	90	239810	5.00	4.19	
10 Chloroethane	64	2.331	2.325	0.006	100	213250	5.00	4.32	
11 Dichlorofluoromethane	67	2.544	2.544	0.000	97	503181	5.00	4.32	
13 Pentane	43	2.593	2.587	0.006	97	452867	5.00	5.48	
12 Trichlorofluoromethane	101	2.593	2.593	0.000	98	314025	5.00	3.12	
14 Ethyl ether	59	2.769	2.770	-0.001	92	252476	5.01	4.86	
16 1,2-Dichloro-1,1,2-trifluoroethane	67	2.867	2.867	0.000	94	320315	5.00	4.48	
18 1,1-Dichloroethene	96	3.032	3.032	0.000	97	259281	5.00	5.12	
20 Acetone	43	3.074	3.062	0.012	100	566685	62.5	66.4	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.080	3.080	0.000	86	237706	5.00	4.62	
22 Iodomethane	142	3.196	3.190	0.006	98	491464	5.00	4.65	
24 Isopropyl alcohol	45	3.239	3.215	0.024	42	74381	37.5	44.9	
25 Carbon disulfide	76	3.288	3.276	0.012	99	908796	5.00	5.16	M
26 Methyl acetate	43	3.422	3.410	0.012	37	167723	5.00	6.13	
29 3-Chloro-1-propene	41	3.428	3.422	0.006	93	503236	5.00	5.54	
30 Methylene Chloride	84	3.586	3.580	0.006	94	311213	5.00	5.13	
* 31 t-Butyl alcohol-d10 (IS)	65	3.647	3.641	0.006	96	179147	50.0	50.0	
32 2-Methyl-2-propanol	59	3.739	3.733	0.006	99	175680	50.0	51.1	
33 Acrylonitrile	53	3.897	3.891	0.006	100	335228	25.0	27.1	
34 Methyl tert-butyl ether	73	3.928	3.928	0.000	90	834200	5.00	4.77	
35 trans-1,2-Dichloroethene	96	3.934	3.934	0.000	98	306045	5.00	4.94	
36 Hexane	57	4.324	4.318	0.006	94	406151	5.00	5.17	
37 1,1-Dichloroethane	63	4.556	4.556	0.000	96	565863	5.00	5.05	
39 Isopropyl ether	45	4.629	4.623	0.006	95	1094886	5.00	5.38	
40 2-Chloro-1,3-butadiene	53	4.672	4.672	0.000	90	442557	5.00	4.87	
41 Tert-butyl ethyl ether	59	5.178	5.184	-0.006	98	1016632	5.00	4.96	
42 2-Butanone (MEK)	43	5.415	5.409	0.006	100	1108553	62.5	65.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 cis-1,2-Dichloroethene	96	5.421	5.421	0.000	80	353182	5.00	5.22	
44 2,2-Dichloropropane	77	5.428	5.428	0.000	57	453370	5.00	4.57	
45 Propionitrile	54	5.537	5.507	0.030	98	180275	37.5	48.8	
47 Methacrylonitrile	67	5.720	5.714	0.006	92	672780	37.5	37.1	
48 Chlorobromomethane	128	5.763	5.757	0.006	97	153452	5.00	4.87	
49 Tetrahydrofuran	71	5.793	5.793	0.000	79	126324	25.0	23.4	
50 Chloroform	83	5.921	5.921	0.000	93	545728	5.00	4.87	
53 1,1,1-Trichloroethane	97	6.141	6.135	0.006	99	454228	5.00	4.60	
\$ 54 Dibromofluoromethane (Surr)	113	6.147	6.141	0.006	94	481120	10.0	9.23	
55 Cyclohexane	56	6.232	6.232	0.000	91	516485	5.00	5.15	
56 Carbon tetrachloride	117	6.354	6.348	0.006	97	384346	5.00	4.55	
57 1,1-Dichloropropene	75	6.366	6.366	0.000	97	424806	5.00	5.08	
58 Isobutyl alcohol	41	6.628	6.598	0.030	83	110959	125.0	127.9	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.610	6.604	0.006	100	104693	10.0	10.2	
60 Benzene	78	6.628	6.629	-0.001	97	1355133	5.00	5.30	
61 1,2-Dichloroethane	62	6.720	6.714	0.006	97	329634	5.00	4.46	
64 Tert-amyl methyl ether	73	6.842	6.842	0.000	99	935350	5.00	4.94	
* 65 Fluorobenzene (IS)	96	7.055	7.049	0.006	99	2000528	10.0	10.0	
66 n-Heptane	43	7.074	7.068	0.006	94	449164	5.00	5.47	
67 n-Butanol	56	7.573	7.525	0.048	90	152510	250.0	207.5	
68 Trichloroethene	95	7.549	7.543	0.006	99	328363	5.00	4.84	
69 Methylcyclohexane	83	7.842	7.842	0.000	92	518733	5.00	4.77	
70 1,2-Dichloropropane	63	7.878	7.878	0.000	98	359922	5.00	5.36	
71 2-ethoxy-2-methyl butane	87	7.909	7.903	0.006	92	515818	5.00	4.79	
73 Methyl methacrylate	69	8.000	7.994	0.006	93	151762	5.00	4.25	
74 1,4-Dioxane	88	8.012	8.000	0.012	31	28345	125.0	149.3	
72 Dibromomethane	93	8.000	8.000	0.000	95	159396	5.00	4.81	
76 Dichlorobromomethane	83	8.244	8.244	0.000	99	404380	5.00	4.78	
77 2-Nitropropane	41	8.531	8.531	0.000	97	44842	5.00	3.93	
78 1-Bromo-2-chloroethane	63	8.646	8.640	0.006	98	351613	5.00	4.99	
80 cis-1,3-Dichloropropene	75	8.817	8.817	0.000	96	493776	5.00	4.75	
82 4-Methyl-2-pentanone (MIBK)	43	9.024	9.024	0.000	97	2987747	62.5	63.7	
\$ 83 Toluene-d8 (Surr)	98	9.152	9.152	0.000	93	2145477	10.0	10.7	
84 Toluene	92	9.238	9.238	0.000	98	859827	5.00	5.56	
85 trans-1,3-Dichloropropene	75	9.549	9.543	0.006	92	410976	5.00	5.31	
86 Ethyl methacrylate	69	9.634	9.628	0.006	90	345100	5.00	5.51	
87 1,1,2-Trichloroethane	97	9.762	9.762	0.000	89	245962	5.00	5.34	
88 Tetrachloroethene	166	9.841	9.841	0.000	97	364794	5.00	4.99	
89 1,3-Dichloropropane	76	9.933	9.933	0.000	91	416897	5.00	5.62	
106 2-Hexanone	43	10.012	10.006	0.006	97	1975790	62.5	64.6	
108 Chlorodibromomethane	129	10.158	10.158	0.000	90	292201	5.00	5.04	
110 Ethylene Dibromide	107	10.274	10.268	0.006	99	226305	5.00	5.22	
* 111 Chlorobenzene-d5 (IS)	117	10.737	10.738	-0.001	85	1680482	10.0	10.0	
112 1-Chlorohexane	91	10.756	10.756	0.000	98	436290	5.00	4.94	
113 Chlorobenzene	112	10.762	10.762	0.000	95	970234	5.00	5.27	
114 1,1,1,2-Tetrachloroethane	131	10.853	10.853	0.000	97	336744	5.00	5.26	
115 Ethylbenzene	91	10.859	10.859	0.000	98	1653957	5.00	5.54	
116 m-Xylene & p-Xylene	106	10.981	10.981	0.000	97	1319713	10.0	10.9	
118 o-Xylene	106	11.323	11.323	0.000	97	653573	5.00	5.46	
119 Styrene	104	11.347	11.341	0.006	95	1062683	5.00	5.44	
120 Bromoform	173	11.499	11.500	-0.001	97	167668	5.00	4.59	
121 Isopropylbenzene	105	11.640	11.640	0.000	95	1661853	5.00	5.41	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 124 4-Bromofluorobenzene (Surr)	95	11.786	11.786	0.000	92	823745	10.0	9.60	
126 1,1,2,2-Tetrachloroethane	83	11.902	11.902	0.000	73	319937	5.00	5.75	
125 Bromobenzene	156	11.902	11.902	0.000	91	416492	5.00	5.44	
127 trans-1,4-Dichloro-2-butene	53	11.932	11.926	0.006	87	174760	25.0	13.1	
128 1,2,3-Trichloropropane	110	11.945	11.945	0.000	80	79177	5.00	5.41	
129 N-Propylbenzene	91	11.981	11.975	0.006	99	1923846	5.00	5.64	
130 2-Chlorotoluene	126	12.054	12.054	0.000	97	404005	5.00	5.48	
131 1,3,5-Trimethylbenzene	105	12.121	12.121	0.000	94	1425633	5.00	5.57	
132 4-Chlorotoluene	126	12.152	12.152	0.000	97	413596	5.00	5.44	
133 tert-Butylbenzene	134	12.365	12.365	0.000	94	294030	5.00	5.00	
135 1,2,4-Trimethylbenzene	105	12.414	12.414	0.000	98	1481202	5.00	5.61	
136 sec-Butylbenzene	105	12.536	12.536	0.000	94	1846696	5.00	5.70	
137 1,3-Dichlorobenzene	146	12.633	12.633	0.000	98	791026	5.00	5.32	
138 4-Isopropyltoluene	119	12.652	12.646	0.006	97	1591752	5.00	5.49	
* 139 1,4-Dichlorobenzene-d4	152	12.694	12.688	0.006	94	993453	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.713	12.707	0.006	95	862659	5.00	5.76	
141 1,2,3-Trimethylbenzene	120	12.725	12.719	0.006	98	660756	5.00	5.40	
142 Benzyl chloride	126	12.798	12.792	0.006	98	120884	5.00	5.34	
145 p-Diethylbenzene	119	12.926	12.926	0.000	94	985241	5.00	5.52	
143 n-Butylbenzene	92	12.944	12.944	0.000	97	749687	5.00	5.56	
144 1,2-Dichlorobenzene	146	12.975	12.975	0.000	99	748867	5.00	5.39	
148 1,2-Dibromo-3-Chloropropane	155	13.542	13.536	0.006	86	36836	5.00	4.91	
149 1,3,5-Trichlorobenzene	180	13.664	13.658	0.006	98	622212	5.00	5.33	
150 1,2,4-Trichlorobenzene	180	14.090	14.091	-0.001	94	494841	5.00	5.55	
151 Hexachlorobutadiene	225	14.170	14.170	0.000	96	281462	5.00	5.36	
152 Naphthalene	128	14.273	14.267	0.006	97	809657	5.00	5.67	
153 1,2,3-Trichlorobenzene	180	14.420	14.414	0.006	95	387734	5.00	5.50	
154 2-Methylnaphthalene	142	15.035	15.023	0.012	93	282431	5.00	4.08	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00111

Amount Added: 6.25

Units: uL

MSV_QC_Gas826_00142

Amount Added: 6.25

Units: uL

MSV_LCS_EE_00007

Amount Added: 6.25

Units: uL

MSV_HP25_ISSS_00070

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X03.D

Injection Date: 31-May-2023 21:30:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

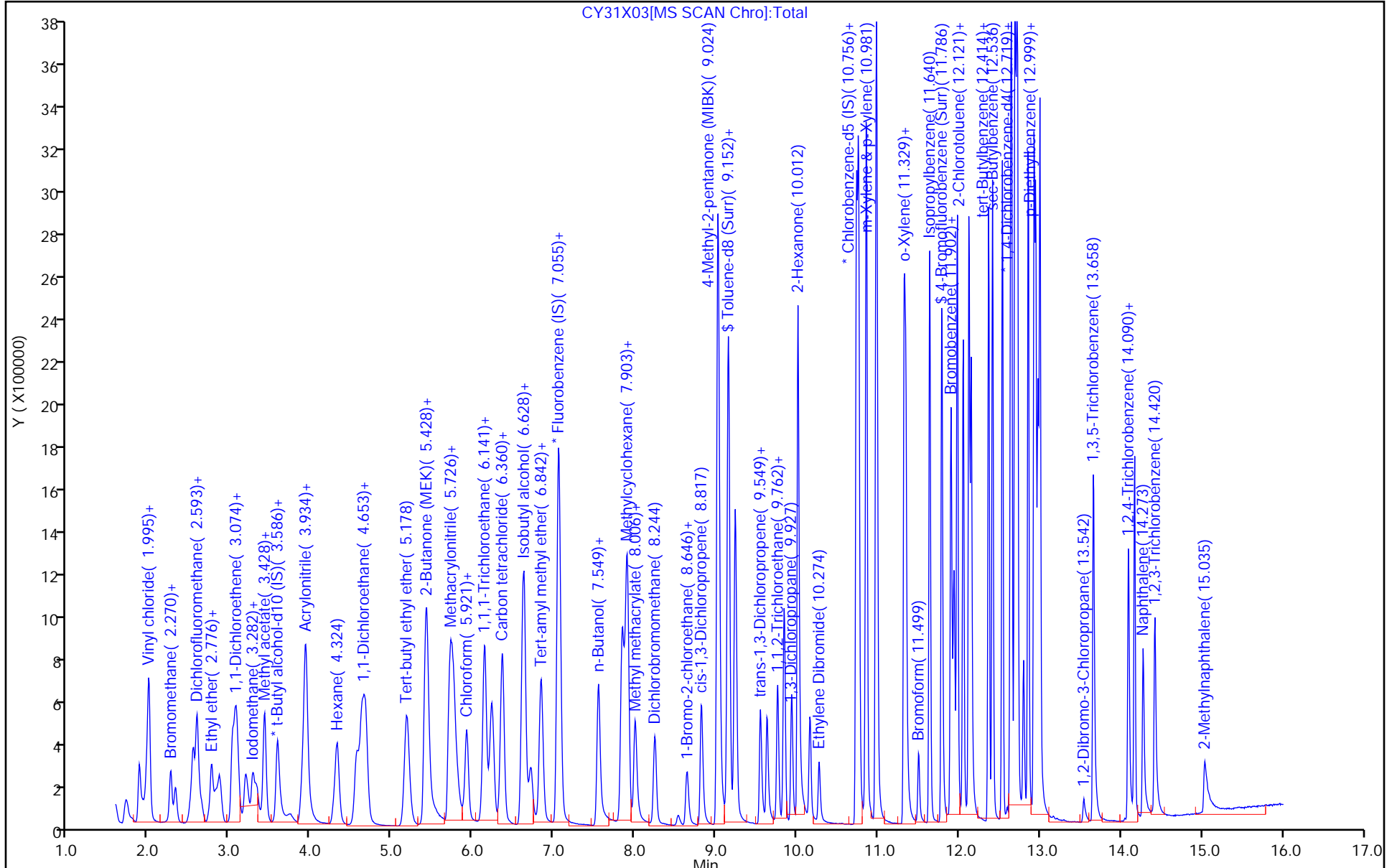
ALS Bottle#: 3

Method: MSV_10193_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\10193\20230531-85466.b\CY31X03.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 31-May-2023 21:30:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-004
 Misc. Info.: LCS
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 14:52:19 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: JS6E

Date: 31-May-2023 21:52:29

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.23	92.34
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	101.96
\$ 83 Toluene-d8 (Surr)	10.0	10.7	106.89
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.60	96.03

Eurofins Lancaster Laboratories Environment Testing, LLC

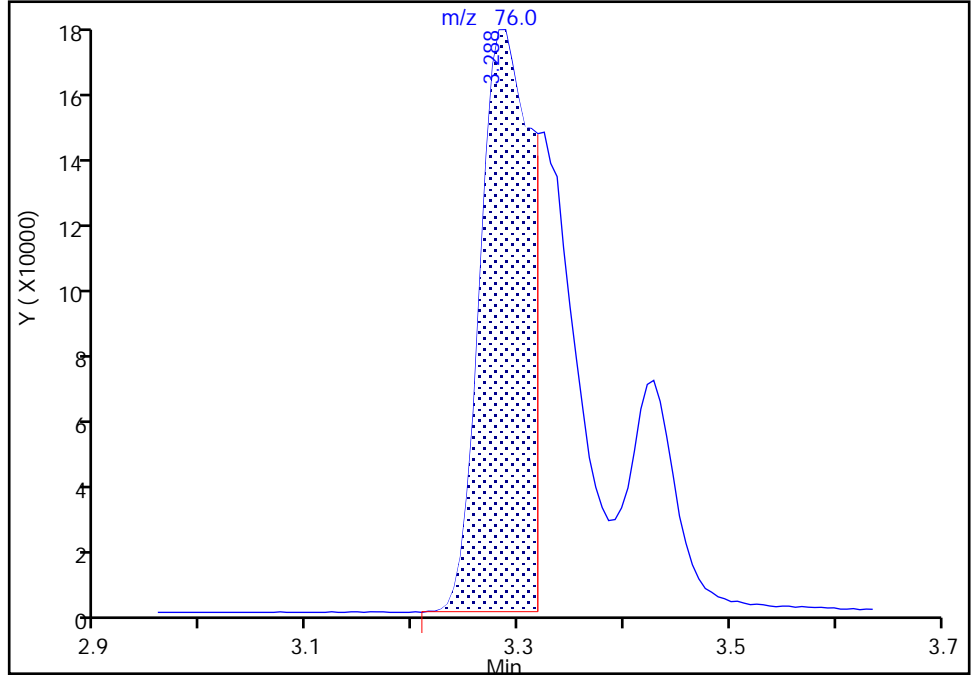
Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X03.D
Injection Date: 31-May-2023 21:30:30 Instrument ID: 10193
Lims ID: LCS
Client ID:
Operator ID: gaw91131 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

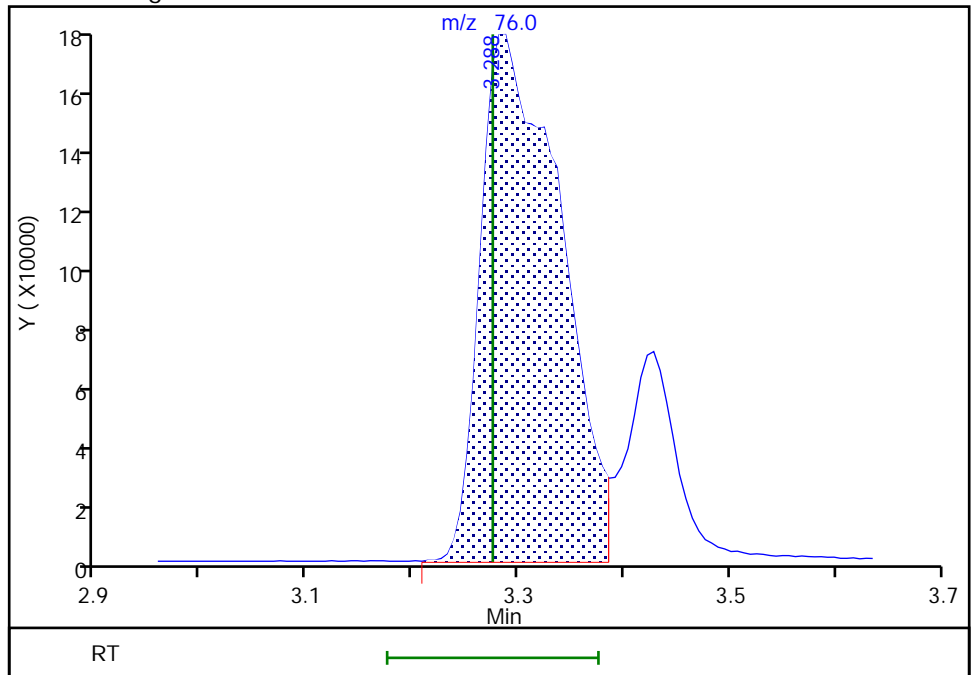
RT: 3.29
Area: 587368
Amount: 3.337074
Amount Units: ug/l

Processing Integration Results



RT: 3.29
Area: 908796
Amount: 5.163236
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 31-May-2023 21:51:46 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 410-382118/4

Matrix: Water

Lab File ID: CU01X03.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 21:04

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.: 382118

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.11		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.17		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.92		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.28		0.50	0.080
75-34-3	1,1-Dichloroethane	4.46		0.50	0.10
75-35-4	1,1-Dichloroethene	4.64		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.26		0.50	0.080
107-06-2	1,2-Dichloroethane	4.03		0.50	0.070
78-87-5	1,2-Dichloropropane	4.72		0.50	0.10
78-93-3	2-Butanone (MEK)	66.5		5.0	1.0
591-78-6	2-Hexanone	66.8		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	68.3		5.0	1.0
67-64-1	Acetone	63.3		5.0	1.0
71-43-2	Benzene	4.71		0.50	0.10
74-97-5	Bromochloromethane	4.27		0.50	0.080
75-27-4	Bromodichloromethane	4.21		0.50	0.080
75-25-2	Bromoform	4.45		1.0	0.30
74-83-9	Bromomethane	3.61		0.50	0.10
75-15-0	Carbon disulfide	4.54		1.0	0.10
56-23-5	Carbon tetrachloride	4.13		0.50	0.10
108-90-7	Chlorobenzene	5.18		0.50	0.070
75-00-3	Chloroethane	3.88		0.50	0.10
67-66-3	Chloroform	4.31		0.50	0.090
74-87-3	Chloromethane	3.82		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	4.51		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.21		0.50	0.10
124-48-1	Dibromochloromethane	4.98		0.50	0.080
100-41-4	Ethylbenzene	5.51		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.19		0.50	0.080
75-09-2	Methylene Chloride	4.55		0.50	0.10
100-42-5	Styrene	5.24		0.50	0.070
127-18-4	Tetrachloroethene	5.01		0.50	0.20
108-88-3	Toluene	5.61		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 410-382118/4

Matrix: Water Lab File ID: CU01X03.D

Analysis Method: 8260D Date Collected: _____

Sample wt/vol: 25 (mL) Date Analyzed: 06/01/2023 21:04

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.: 382118 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	4.29		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.32		0.50	0.080
79-01-6	Trichloroethene	4.29		0.50	0.080
75-01-4	Vinyl chloride	3.61		0.50	0.10
1330-20-7	Xylenes, Total	16.0		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)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	88		80-120
2037-26-5	Toluene-d8 (Surr)	115		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01X03.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 01-Jun-2023 21:04:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085572-004
 Misc. Info.: LCS
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 05-Jun-2023 10:14:23 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1679

First Level Reviewer: JS6E

Date: 01-Jun-2023 21:29:03

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.721	1.727	-0.006	99	285282	5.00	3.48	M
5 Chloromethane	50	1.880	1.892	-0.012	98	366722	5.00	3.82	
6 Vinyl chloride	62	1.983	1.989	-0.006	98	331772	5.00	3.61	
7 Butadiene	39	2.001	2.007	-0.006	91	458499	5.00	5.37	
9 Bromomethane	94	2.270	2.276	-0.006	89	225732	5.00	3.61	
10 Chloroethane	64	2.331	2.337	-0.006	100	209523	5.00	3.88	
11 Dichlorofluoromethane	67	2.544	2.556	-0.012	97	494642	5.00	3.89	
13 Pentane	43	2.593	2.599	-0.006	97	457936	5.00	5.07	
12 Trichlorofluoromethane	101	2.593	2.605	-0.012	97	322604	5.00	2.93	
16 1,2-Dichloro-1,1,2-trifluoroethane	67	2.867	2.873	-0.006	94	327952	5.00	4.20	
18 1,1-Dichloroethene	96	3.038	3.044	-0.006	97	256439	5.00	4.64	
20 Acetone	43	3.068	3.074	-0.006	100	488067	62.5	63.3	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.087	3.093	-0.006	92	231375	5.00	4.12	
22 Iodomethane	142	3.196	3.208	-0.012	98	465022	5.00	4.03	
24 Isopropyl alcohol	45	3.221	3.227	-0.006	34	61493	37.5	41.1	
25 Carbon disulfide	76	3.288	3.294	-0.006	99	873803	5.00	4.54	M
26 Methyl acetate	43	3.422	3.422	0.000	94	119870	5.00	4.85	M
29 3-Chloro-1-propene	41	3.428	3.434	-0.006	93	488740	5.00	4.92	
30 Methylene Chloride	84	3.587	3.599	-0.012	94	301498	5.00	4.55	
* 31 t-Butyl alcohol-d10 (IS)	65	3.635	3.647	-0.012	97	161877	50.0	50.0	
32 2-Methyl-2-propanol	59	3.739	3.745	-0.006	99	133472	50.0	43.0	
33 Acrylonitrile	53	3.897	3.891	0.006	99	306632	25.0	27.4	
34 Methyl tert-butyl ether	73	3.940	3.940	0.000	95	800884	5.00	4.19	
35 trans-1,2-Dichloroethene	96	3.940	3.940	0.000	98	289884	5.00	4.29	
36 Hexane	57	4.318	4.330	-0.012	93	413418	5.00	4.81	
37 1,1-Dichloroethane	63	4.562	4.568	-0.006	96	545880	5.00	4.46	
39 Isopropyl ether	45	4.635	4.641	-0.006	95	1061008	5.00	4.77	
40 2-Chloro-1,3-butadiene	53	4.678	4.684	-0.006	90	433758	5.00	4.37	
41 Tert-butyl ethyl ether	59	5.184	5.190	-0.006	98	1002344	5.00	4.47	
42 2-Butanone (MEK)	43	5.415	5.421	-0.006	100	1016196	62.5	66.5	
43 cis-1,2-Dichloroethene	96	5.428	5.428	0.000	82	333354	5.00	4.51	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2,2-Dichloropropane	77	5.428	5.440	-0.012	88	446071	5.00	4.12	
45 Propionitrile	54	5.550	5.519	0.031	97	158573	37.5	47.5	
47 Methacrylonitrile	67	5.720	5.720	0.000	91	624627	37.5	38.1	
48 Chlorobromomethane	128	5.763	5.769	-0.006	97	146983	5.00	4.27	
49 Tetrahydrofuran	71	5.793	5.793	0.000	91	123838	25.0	25.3	
50 Chloroform	83	5.921	5.927	-0.006	93	527417	5.00	4.31	
53 1,1,1-Trichloroethane	97	6.141	6.147	-0.006	98	450359	5.00	4.17	
\$ 54 Dibromofluoromethane (Surr)	113	6.147	6.147	0.000	94	501104	10.0	8.80	
55 Cyclohexane	56	6.232	6.238	-0.006	92	520614	5.00	4.75	
56 Carbon tetrachloride	117	6.354	6.360	-0.006	97	381567	5.00	4.13	
57 1,1-Dichloropropene	75	6.366	6.372	-0.006	98	421132	5.00	4.60	
58 Isobutyl alcohol	41	6.623	6.604	0.019	71	92167	125.0	117.6	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.610	6.616	-0.006	100	104543	10.0	9.32	
60 Benzene	78	6.635	6.635	0.000	97	1315461	5.00	4.71	
61 1,2-Dichloroethane	62	6.720	6.720	0.000	97	325532	5.00	4.03	
64 Tert-amyl methyl ether	73	6.842	6.848	-0.006	99	915548	5.00	4.43	
* 65 Fluorobenzene (IS)	96	7.055	7.061	-0.006	99	2186329	10.0	10.0	
66 n-Heptane	43	7.074	7.074	0.000	94	450347	5.00	5.02	
67 n-Butanol	56	7.586	7.531	0.055	91	129682	250.0	197.7	
68 Trichloroethene	95	7.549	7.549	0.000	99	317693	5.00	4.29	
69 Methylcyclohexane	83	7.842	7.842	0.000	92	528985	5.00	4.45	
70 1,2-Dichloropropane	63	7.878	7.884	-0.006	98	346241	5.00	4.72	
71 2-ethoxy-2-methyl butane	87	7.909	7.909	0.000	92	502788	5.00	4.27	
73 Methyl methacrylate	69	8.006	8.000	0.006	93	147154	5.00	4.56	
72 Dibromomethane	93	8.000	8.000	0.000	97	155700	5.00	4.30	
74 1,4-Dioxane	88	8.019	8.006	0.013	29	28528	125.0	166.3	
76 Dichlorobromomethane	83	8.244	8.244	0.000	99	389696	5.00	4.21	
77 2-Nitropropane	41	8.537	8.531	0.006	98	42155	5.00	4.09	
78 1-Bromo-2-chloroethane	63	8.640	8.640	0.000	99	349505	5.00	4.54	
80 cis-1,3-Dichloropropene	75	8.817	8.823	-0.006	96	478063	5.00	4.21	
82 4-Methyl-2-pentanone (MIBK)	43	9.025	9.024	0.001	96	2892241	62.5	68.3	
\$ 83 Toluene-d8 (Surr)	98	9.153	9.152	0.001	93	2260571	10.0	11.5	
84 Toluene	92	9.238	9.244	-0.006	98	847243	5.00	5.61	
85 trans-1,3-Dichloropropene	75	9.549	9.549	0.000	92	402164	5.00	5.32	
86 Ethyl methacrylate	69	9.634	9.628	0.006	90	332269	5.00	5.43	
87 1,1,2-Trichloroethane	97	9.762	9.762	0.000	90	237157	5.00	5.28	
88 Tetrachloroethene	166	9.841	9.841	0.000	97	357153	5.00	5.01	
89 1,3-Dichloropropane	76	9.939	9.933	0.006	91	410651	5.00	5.67	
106 2-Hexanone	43	10.012	10.012	0.000	96	1846298	62.5	66.8	
108 Chlorodibromomethane	129	10.165	10.158	0.007	90	281453	5.00	4.98	
110 Ethylene Dibromide	107	10.274	10.274	0.000	98	222535	5.00	5.26	
* 111 Chlorobenzene-d5 (IS)	117	10.738	10.737	0.001	85	1640401	10.0	10.0	
112 1-Chlorohexane	91	10.756	10.756	0.000	96	431002	5.00	5.00	
113 Chlorobenzene	112	10.762	10.762	0.000	95	930801	5.00	5.18	
114 1,1,1,2-Tetrachloroethane	131	10.853	10.853	0.000	97	319009	5.00	5.11	
115 Ethylbenzene	91	10.860	10.859	0.001	98	1605117	5.00	5.51	
116 m-Xylene & p-Xylene	106	10.981	10.981	0.000	97	1262213	10.0	10.7	
118 o-Xylene	106	11.323	11.323	0.000	97	621781	5.00	5.32	
119 Styrene	104	11.347	11.341	0.006	95	1000741	5.00	5.24	
120 Bromoform	173	11.506	11.499	0.007	98	158772	5.00	4.45	
121 Isopropylbenzene	105	11.640	11.640	0.000	96	1623880	5.00	5.41	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.786	11.786	0.000	92	807758	10.0	9.65	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
126 1,1,2,2-Tetrachloroethane	83	11.902	11.902	0.000	73	311103	5.00	5.92	
125 Bromobenzene	156	11.902	11.902	0.000	92	401090	5.00	5.54	
127 trans-1,4-Dichloro-2-butene	53	11.932	11.926	0.006	85	147387	25.0	11.7	
128 1,2,3-Trichloropropane	110	11.945	11.945	0.000	80	76802	5.00	5.56	
129 N-Propylbenzene	91	11.981	11.981	0.000	99	1875712	5.00	5.82	
130 2-Chlorotoluene	126	12.054	12.054	0.000	97	390692	5.00	5.61	
131 1,3,5-Trimethylbenzene	105	12.121	12.121	0.000	94	1381689	5.00	5.72	
132 4-Chlorotoluene	126	12.152	12.152	0.000	98	396810	5.00	5.53	
133 tert-Butylbenzene	134	12.365	12.365	0.000	93	288439	5.00	5.20	
135 1,2,4-Trimethylbenzene	105	12.414	12.414	0.000	97	1407256	5.00	5.64	
136 sec-Butylbenzene	105	12.536	12.536	0.000	94	1775377	5.00	5.80	
137 1,3-Dichlorobenzene	146	12.634	12.633	0.001	98	752091	5.00	5.35	
138 4-Isopropyltoluene	119	12.652	12.652	0.000	97	1539547	5.00	5.63	
* 139 1,4-Dichlorobenzene-d4	152	12.695	12.688	0.007	93	938190	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.713	12.707	0.006	95	809690	5.00	5.72	
141 1,2,3-Trimethylbenzene	120	12.725	12.725	0.000	98	634318	5.00	5.49	
142 Benzyl chloride	126	12.798	12.792	0.006	98	107463	5.00	5.03	
145 p-Diethylbenzene	119	12.926	12.926	0.000	94	951349	5.00	5.64	
143 n-Butylbenzene	92	12.944	12.944	0.000	97	728623	5.00	5.72	
144 1,2-Dichlorobenzene	146	12.975	12.975	0.000	99	714643	5.00	5.45	
148 1,2-Dibromo-3-Chloropropane	155	13.548	13.536	0.012	87	33101	5.00	4.67	
149 1,3,5-Trichlorobenzene	180	13.664	13.658	0.006	98	584402	5.00	5.30	
150 1,2,4-Trichlorobenzene	180	14.097	14.090	0.007	94	441997	5.00	5.25	
151 Hexachlorobutadiene	225	14.170	14.170	0.000	96	274956	5.00	5.55	
152 Naphthalene	128	14.273	14.267	0.006	97	795378	5.00	5.90	
153 1,2,3-Trichlorobenzene	180	14.420	14.414	0.006	96	382225	5.00	5.74	
154 2-Methylnaphthalene	142	15.042	15.023	0.019	92	297045	5.00	4.52	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00111

Amount Added: 12.50

Units: uL

MSV_QC_Gas826_00142

Amount Added: 12.50

Units: uL

MSV_HP25_ISSS_00071

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01X03.D

Injection Date: 01-Jun-2023 21:04:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

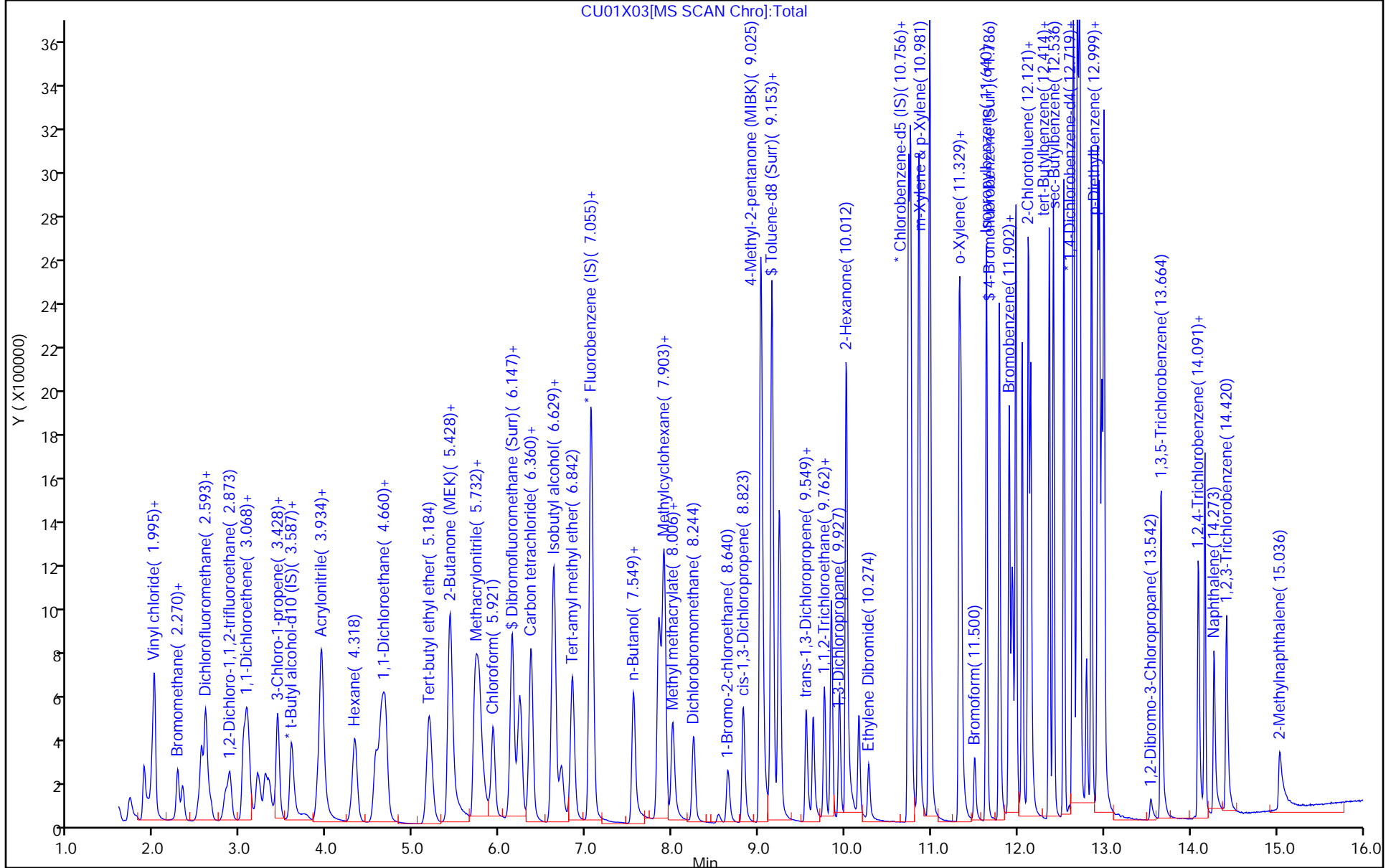
ALS Bottle#: 3

Method: MSV_10193_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\10193\20230601-85572.b\CU01X03.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 01-Jun-2023 21:04:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085572-004
 Misc. Info.: LCS
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 05-Jun-2023 10:14:23 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1679

First Level Reviewer: JS6E

Date: 01-Jun-2023 21:29:03

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	8.80	88.01
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.32	93.16
\$ 83 Toluene-d8 (Surr)	10.0	11.5	115.38
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.65	96.46

Eurofins Lancaster Laboratories Environment Testing, LLC

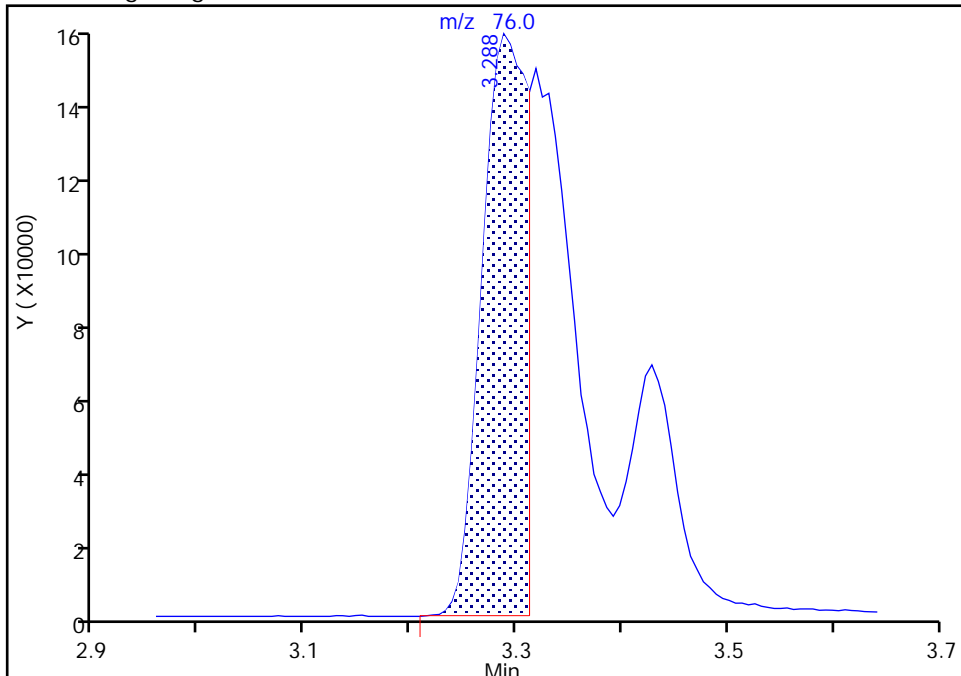
Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01X03.D
Injection Date: 01-Jun-2023 21:04:30 Instrument ID: 10193
Lims ID: LCS
Client ID:
Operator ID: gaw91131 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

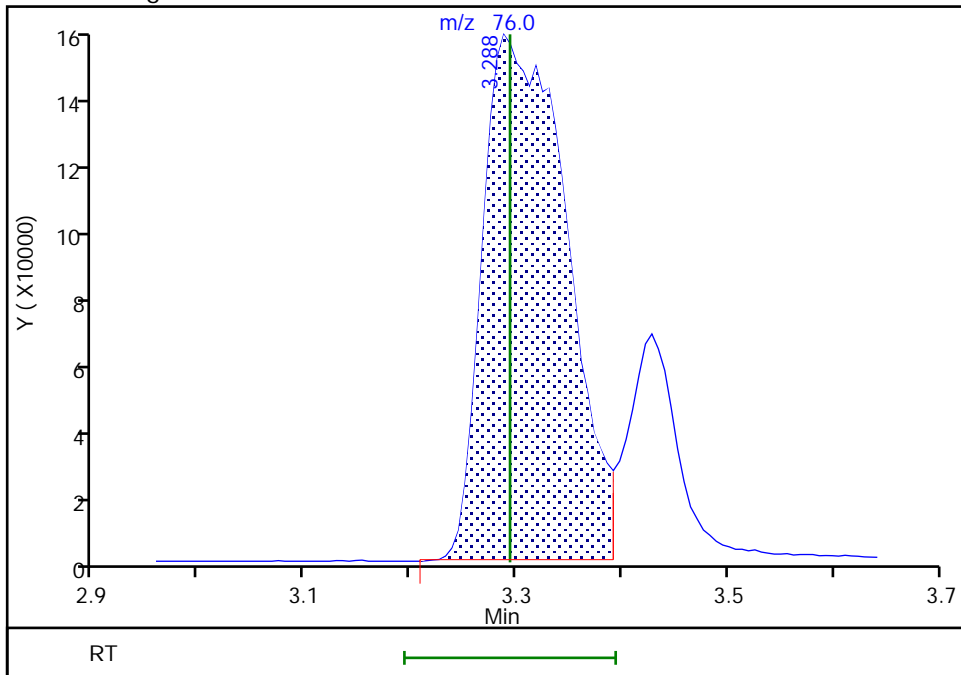
RT: 3.29
Area: 476023
Amount: 2.474643
Amount Units: ug/l

Processing Integration Results



RT: 3.29
Area: 873803
Amount: 4.542534
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 01-Jun-2023 21:27:55 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCSD 410-382118/5

Matrix: Water

Lab File ID: CU01X04.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 06/01/2023 21:28

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.: 382118

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.07		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.13		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.89		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.35		0.50	0.080
75-34-3	1,1-Dichloroethane	4.38		0.50	0.10
75-35-4	1,1-Dichloroethene	4.57		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.26		0.50	0.080
107-06-2	1,2-Dichloroethane	3.81		0.50	0.070
78-87-5	1,2-Dichloropropane	4.77		0.50	0.10
78-93-3	2-Butanone (MEK)	66.5		5.0	1.0
591-78-6	2-Hexanone	66.5		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	64.2		5.0	1.0
67-64-1	Acetone	63.5		5.0	1.0
71-43-2	Benzene	4.66		0.50	0.10
74-97-5	Bromochloromethane	4.21		0.50	0.080
75-27-4	Bromodichloromethane	4.23		0.50	0.080
75-25-2	Bromoform	4.41		1.0	0.30
74-83-9	Bromomethane	3.61		0.50	0.10
75-15-0	Carbon disulfide	4.37		1.0	0.10
56-23-5	Carbon tetrachloride	4.06		0.50	0.10
108-90-7	Chlorobenzene	5.21		0.50	0.070
75-00-3	Chloroethane	3.73		0.50	0.10
67-66-3	Chloroform	4.29		0.50	0.090
74-87-3	Chloromethane	3.52		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	4.57		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.31		0.50	0.10
124-48-1	Dibromochloromethane	5.06		0.50	0.080
100-41-4	Ethylbenzene	5.46		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.26		0.50	0.080
75-09-2	Methylene Chloride	4.55		0.50	0.10
100-42-5	Styrene	5.33		0.50	0.070
127-18-4	Tetrachloroethene	4.97		0.50	0.20
108-88-3	Toluene	5.54		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1
 Environment Testing, LLC

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-382118/5

Matrix: Water Lab File ID: CU01X04.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25 (mL) Date Analyzed: 06/01/2023 21:28

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.: 382118 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	4.23		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.39		0.50	0.080
79-01-6	Trichloroethene	4.29		0.50	0.080
75-01-4	Vinyl chloride	3.54		0.50	0.10
1330-20-7	Xylenes, Total	16.2		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	88		80-120
2037-26-5	Toluene-d8 (Surr)	115		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01X04.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 01-Jun-2023 21:28:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085572-005
 Misc. Info.: LCSD
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 05-Jun-2023 10:25:40 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1679

First Level Reviewer: JS6E

Date: 01-Jun-2023 21:53:31

Compound	Sig	RT (min.)	Exp RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.721	1.727	-0.006	99	278160	5.00	3.41	M
5 Chloromethane	50	1.880	1.892	-0.012	99	336743	5.00	3.52	
6 Vinyl chloride	62	1.983	1.989	-0.006	98	323393	5.00	3.54	
7 Butadiene	39	2.001	2.007	-0.006	91	418587	5.00	4.93	
9 Bromomethane	94	2.276	2.276	0.000	91	225093	5.00	3.61	
10 Chloroethane	64	2.331	2.337	-0.006	100	200253	5.00	3.73	
11 Dichlorofluoromethane	67	2.550	2.556	-0.006	97	476180	5.00	3.76	
13 Pentane	43	2.593	2.599	-0.006	99	453101	5.00	5.04	
12 Trichlorofluoromethane	101	2.599	2.605	-0.006	95	299796	5.00	2.74	
16 1,2-Dichloro-1,1,2-trifluoroethane	67	2.867	2.873	-0.006	94	313144	5.00	4.03	
18 1,1-Dichloroethene	96	3.044	3.044	0.000	97	251425	5.00	4.57	
20 Acetone	43	3.068	3.074	-0.006	100	504441	62.5	63.5	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.087	3.093	-0.006	93	226438	5.00	4.05	
22 Iodomethane	142	3.221	3.208	0.013	98	462127	5.00	4.02	
24 Isopropyl alcohol	45	3.227	3.227	0.000	34	61299	37.5	39.8	
25 Carbon disulfide	76	3.337	3.294	0.043	99	835955	5.00	4.37	
26 Methyl acetate	43	3.422	3.422	0.000	33	129050	5.00	5.06	M
29 3-Chloro-1-propene	41	3.428	3.434	-0.006	93	484283	5.00	4.90	
30 Methylene Chloride	84	3.586	3.599	-0.013	93	300138	5.00	4.55	
* 31 t-Butyl alcohol-d10 (IS)	65	3.623	3.647	-0.024	97	166759	50.0	50.0	
32 2-Methyl-2-propanol	59	3.733	3.745	-0.012	100	139002	50.0	43.5	
33 Acrylonitrile	53	3.897	3.891	0.006	99	312807	25.0	27.2	
34 Methyl tert-butyl ether	73	3.928	3.940	-0.012	96	811922	5.00	4.26	
35 trans-1,2-Dichloroethene	96	3.934	3.940	-0.006	98	284866	5.00	4.23	
36 Hexane	57	4.318	4.330	-0.012	93	418185	5.00	4.89	
37 1,1-Dichloroethane	63	4.562	4.568	-0.006	96	533443	5.00	4.38	
39 Isopropyl ether	45	4.629	4.641	-0.012	95	1059970	5.00	4.79	
40 2-Chloro-1,3-butadiene	53	4.678	4.684	-0.006	90	423659	5.00	4.29	
41 Tert-butyl ethyl ether	59	5.178	5.190	-0.012	98	990236	5.00	4.44	
42 2-Butanone (MEK)	43	5.422	5.421	0.001	100	1047056	62.5	66.5	
43 cis-1,2-Dichloroethene	96	5.422	5.428	-0.006	81	336454	5.00	4.57	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2,2-Dichloropropane	77	5.428	5.440	-0.012	88	441649	5.00	4.09	
45 Propionitrile	54	5.556	5.519	0.037	98	161911	37.5	47.1	
47 Methacrylonitrile	67	5.726	5.720	0.006	92	660879	37.5	39.1	
48 Chlorobromomethane	128	5.757	5.769	-0.012	97	144278	5.00	4.21	
49 Tetrahydrofuran	71	5.787	5.793	-0.006	86	117571	25.0	23.3	
50 Chloroform	83	5.921	5.927	-0.006	93	522782	5.00	4.29	
53 1,1,1-Trichloroethane	97	6.135	6.147	-0.012	98	444161	5.00	4.13	
\$ 54 Dibromofluoromethane (Surr)	113	6.147	6.147	0.000	94	499874	10.0	8.82	
55 Cyclohexane	56	6.232	6.238	-0.006	92	516352	5.00	4.73	
56 Carbon tetrachloride	117	6.348	6.360	-0.012	97	373880	5.00	4.06	
57 1,1-Dichloropropene	75	6.366	6.372	-0.006	98	418656	5.00	4.60	
58 Isobutyl alcohol	41	6.635	6.604	0.031	37	93868	125.0	116.3	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.610	6.616	-0.006	99	106748	10.0	9.56	
60 Benzene	78	6.629	6.635	-0.006	97	1294888	5.00	4.66	
61 1,2-Dichloroethane	62	6.720	6.720	0.000	97	306232	5.00	3.81	
64 Tert-amyl methyl ether	73	6.842	6.848	-0.006	99	906121	5.00	4.40	
* 65 Fluorobenzene (IS)	96	7.055	7.061	-0.006	98	2176382	10.0	10.0	
66 n-Heptane	43	7.068	7.074	-0.006	94	453514	5.00	5.08	
67 n-Butanol	56	7.580	7.531	0.049	90	124561	250.0	187.2	
68 Trichloroethene	95	7.549	7.549	0.000	99	316218	5.00	4.29	
69 Methylcyclohexane	83	7.842	7.842	0.000	92	515151	5.00	4.35	
70 1,2-Dichloropropane	63	7.878	7.884	-0.006	98	348072	5.00	4.77	
71 2-ethoxy-2-methyl butane	87	7.909	7.909	0.000	92	494596	5.00	4.22	
73 Methyl methacrylate	69	8.006	8.000	0.006	93	148285	5.00	4.46	
72 Dibromomethane	93	8.000	8.000	0.000	95	150959	5.00	4.18	
74 1,4-Dioxane	88	8.012	8.006	0.006	30	30276	125.0	171.4	
76 Dichlorobromomethane	83	8.244	8.244	0.000	99	389518	5.00	4.23	
77 2-Nitropropane	41	8.531	8.531	0.000	98	43185	5.00	4.07	
78 1-Bromo-2-chloroethane	63	8.646	8.640	0.006	98	350440	5.00	4.57	
80 cis-1,3-Dichloropropene	75	8.823	8.823	0.000	96	486678	5.00	4.31	
82 4-Methyl-2-pentanone (MIBK)	43	9.024	9.024	0.000	97	2803783	62.5	64.2	
\$ 83 Toluene-d8 (Surr)	98	9.152	9.152	0.000	93	2221644	10.0	11.5	
84 Toluene	92	9.238	9.244	-0.006	98	826320	5.00	5.54	
85 trans-1,3-Dichloropropene	75	9.549	9.549	0.000	92	401937	5.00	5.39	
86 Ethyl methacrylate	69	9.634	9.628	0.006	90	337838	5.00	5.60	
87 1,1,2-Trichloroethane	97	9.762	9.762	0.000	89	237196	5.00	5.35	
88 Tetrachloroethene	166	9.841	9.841	0.000	98	350235	5.00	4.97	
89 1,3-Dichloropropane	76	9.933	9.933	0.000	91	408133	5.00	5.71	
106 2-Hexanone	43	10.012	10.012	0.000	97	1892679	62.5	66.5	
108 Chlorodibromomethane	129	10.164	10.158	0.006	90	282348	5.00	5.06	
110 Ethylene Dibromide	107	10.274	10.274	0.000	99	219750	5.00	5.26	
* 111 Chlorobenzene-d5 (IS)	117	10.738	10.737	0.001	85	1619002	10.0	10.0	
112 1-Chlorohexane	91	10.756	10.756	0.000	96	423979	5.00	4.99	
113 Chlorobenzene	112	10.762	10.762	0.000	96	924935	5.00	5.21	
114 1,1,1,2-Tetrachloroethane	131	10.853	10.853	0.000	97	312647	5.00	5.07	
115 Ethylbenzene	91	10.859	10.859	0.000	98	1570206	5.00	5.46	
116 m-Xylene & p-Xylene	106	10.981	10.981	0.000	96	1259518	10.0	10.8	
118 o-Xylene	106	11.323	11.323	0.000	97	617000	5.00	5.35	
119 Styrene	104	11.347	11.341	0.006	95	1004054	5.00	5.33	
120 Bromoform	173	11.506	11.499	0.007	97	155512	5.00	4.41	
121 Isopropylbenzene	105	11.640	11.640	0.000	96	1591784	5.00	5.38	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.786	11.786	0.000	91	796792	10.0	9.64	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
126 1,1,2,2-Tetrachloroethane	83	11.902	11.902	0.000	72	307074	5.00	5.89	
125 Bromobenzene	156	11.902	11.902	0.000	92	398637	5.00	5.55	
127 trans-1,4-Dichloro-2-butene	53	11.932	11.926	0.006	86	149400	25.0	11.9	
128 1,2,3-Trichloropropane	110	11.945	11.945	0.000	80	76059	5.00	5.55	
129 N-Propylbenzene	91	11.981	11.981	0.000	99	1818231	5.00	5.69	
130 2-Chlorotoluene	126	12.054	12.054	0.000	97	378452	5.00	5.48	
131 1,3,5-Trimethylbenzene	105	12.121	12.121	0.000	94	1360227	5.00	5.67	
132 4-Chlorotoluene	126	12.152	12.152	0.000	98	393298	5.00	5.52	
133 tert-Butylbenzene	134	12.365	12.365	0.000	93	283144	5.00	5.14	
135 1,2,4-Trimethylbenzene	105	12.414	12.414	0.000	98	1379107	5.00	5.58	
136 sec-Butylbenzene	105	12.536	12.536	0.000	94	1733132	5.00	5.71	
137 1,3-Dichlorobenzene	146	12.640	12.633	0.007	98	737832	5.00	5.29	
138 4-Isopropyltoluene	119	12.652	12.652	0.000	97	1493466	5.00	5.50	
* 139 1,4-Dichlorobenzene-d4	152	12.694	12.688	0.006	93	930713	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.713	12.707	0.006	95	816538	5.00	5.82	
141 1,2,3-Trimethylbenzene	120	12.725	12.725	0.000	98	601665	5.00	5.25	
142 Benzyl chloride	126	12.798	12.792	0.006	98	102084	5.00	4.82	
145 p-Diethylbenzene	119	12.926	12.926	0.000	94	920759	5.00	5.51	
143 n-Butylbenzene	92	12.951	12.944	0.007	97	702754	5.00	5.56	
144 1,2-Dichlorobenzene	146	12.975	12.975	0.000	98	701398	5.00	5.39	
148 1,2-Dibromo-3-Chloropropane	155	13.542	13.536	0.006	84	32880	5.00	4.68	
149 1,3,5-Trichlorobenzene	180	13.664	13.658	0.006	98	577756	5.00	5.28	
150 1,2,4-Trichlorobenzene	180	14.097	14.090	0.007	94	433762	5.00	5.19	
151 Hexachlorobutadiene	225	14.170	14.170	0.000	97	261551	5.00	5.32	
152 Naphthalene	128	14.273	14.267	0.006	97	754240	5.00	5.64	
153 1,2,3-Trichlorobenzene	180	14.420	14.414	0.006	96	351085	5.00	5.31	
154 2-Methylnaphthalene	142	15.042	15.023	0.019	92	243391	5.00	3.77	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00111

Amount Added: 12.50

Units: uL

MSV_QC_Gas826_00142

Amount Added: 12.50

Units: uL

MSV_HP25_ISSS_00071

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\CU01X04.D

Injection Date: 01-Jun-2023 21:28:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: LCSD

Worklist Smp#: 5

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

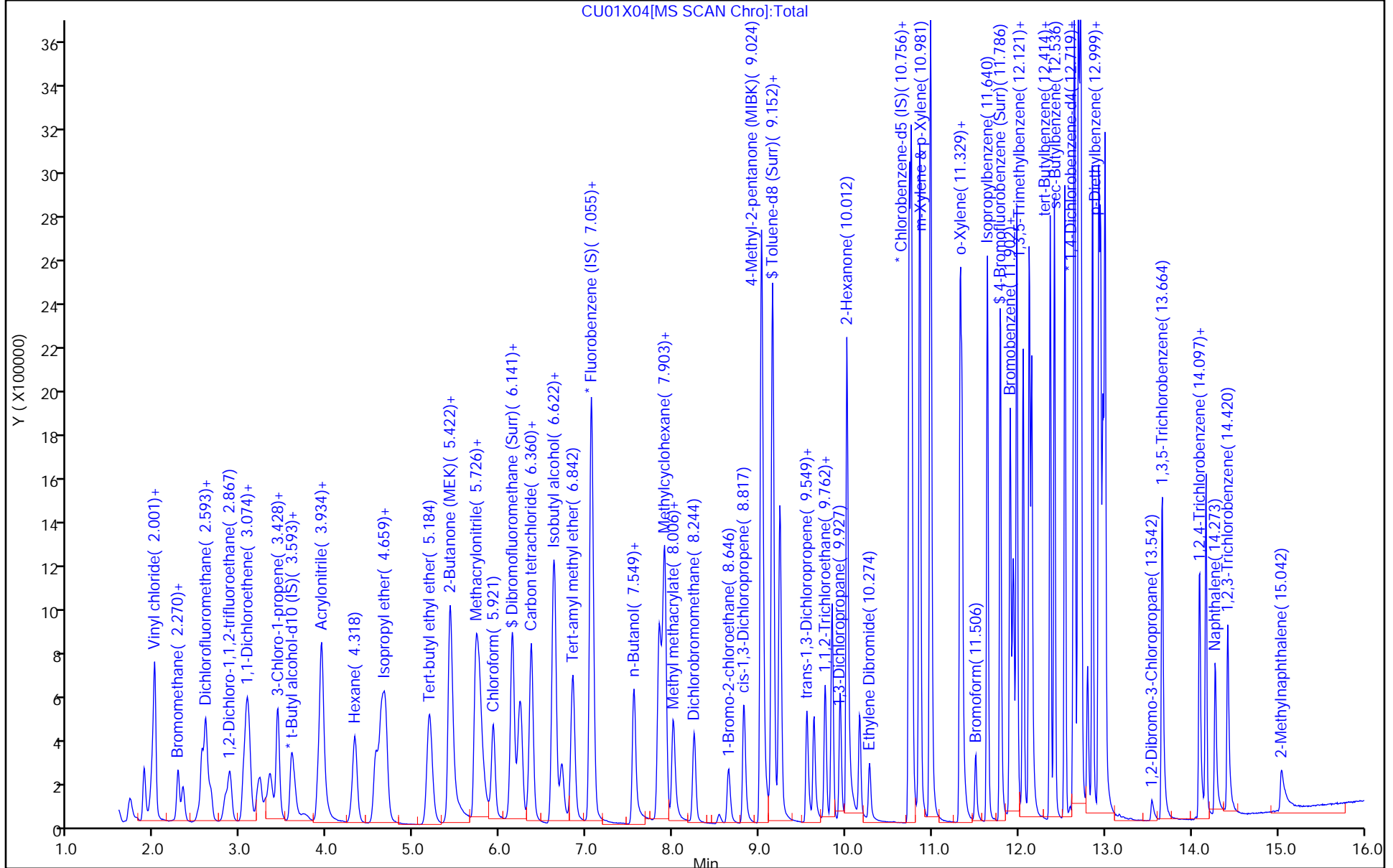
ALS Bottle#: 4

Method: MSV_10193_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\10193\20230601-85572.b\CU01X04.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 01-Jun-2023 21:28:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085572-005
 Misc. Info.: LCSD
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230601-85572.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 05-Jun-2023 10:25:40 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1679

First Level Reviewer: JS6E

Date: 01-Jun-2023 21:53:31

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	8.82	88.19
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.56	95.56
\$ 83 Toluene-d8 (Surr)	10.0	11.5	114.89
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.64	96.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-6 MS

Matrix: Water

Lab File ID: CY31X08.D

Analysis Method: 8260D

Date Collected: 05/23/2023 11:38

Sample wt/vol: 25 (mL)

Date Analyzed: 05/31/2023 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.: 381658

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.74		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.66		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	6.14		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.70		0.50	0.080
75-34-3	1,1-Dichloroethane	5.75		0.50	0.10
75-35-4	1,1-Dichloroethene	6.42		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.52		0.50	0.080
107-06-2	1,2-Dichloroethane	4.66		0.50	0.070
78-87-5	1,2-Dichloropropane	5.86		0.50	0.10
78-93-3	2-Butanone (MEK)	70.5		5.0	1.0
591-78-6	2-Hexanone	72.5		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	71.5		5.0	1.0
67-64-1	Acetone	69.8		5.0	1.0
71-43-2	Benzene	5.95		0.50	0.10
74-97-5	Bromochloromethane	5.27		0.50	0.080
75-27-4	Bromodichloromethane	5.15		0.50	0.080
75-25-2	Bromoform	4.83		1.0	0.30
74-83-9	Bromomethane	4.93		0.50	0.10
75-15-0	Carbon disulfide	6.09		1.0	0.10
56-23-5	Carbon tetrachloride	5.54		0.50	0.10
108-90-7	Chlorobenzene	5.80		0.50	0.070
75-00-3	Chloroethane	5.11		0.50	0.10
67-66-3	Chloroform	5.57		0.50	0.090
74-87-3	Chloromethane	5.46		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	6.83		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.15		0.50	0.10
124-48-1	Dibromochloromethane	5.43		0.50	0.080
100-41-4	Ethylbenzene	6.34		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.00		0.50	0.080
75-09-2	Methylene Chloride	5.67		0.50	0.10
100-42-5	Styrene	5.93		0.50	0.070
127-18-4	Tetrachloroethene	10.3		0.50	0.20
108-88-3	Toluene	6.37		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-6 MS

Matrix: Water

Lab File ID: CY31X08.D

Analysis Method: 8260D

Date Collected: 05/23/2023 11:38

Sample wt/vol: 25 (mL)

Date Analyzed: 05/31/2023 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.: 381658

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.63		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.58		0.50	0.080
79-01-6	Trichloroethene	6.43		0.50	0.080
75-01-4	Vinyl chloride	5.40		0.50	0.10
1330-20-7	Xylenes, Total	18.4		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)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	108		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X08.D
 Lims ID: 410-127761-A-6 MS
 Client ID: HD-COD-SW-15-0/1-0 MS
 Sample Type: MS
 Inject. Date: 31-May-2023 23:22:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-009
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 15:01:46 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp

Date:

01-Jun-2023 15:01:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.709	1.715	-0.006	99	367559	5.00	4.99	M
5 Chloromethane	50	1.880	1.879	0.001	99	471485	5.00	5.46	
6 Vinyl chloride	62	1.983	1.983	0.000	98	446229	5.00	5.40	
7 Butadiene	39	1.995	1.995	0.000	91	571269	5.00	7.44	
9 Bromomethane	94	2.264	2.264	0.000	90	277464	5.00	4.93	
10 Chloroethane	64	2.325	2.325	0.000	100	248301	5.00	5.11	
11 Dichlorofluoromethane	67	2.544	2.544	0.000	97	598109	5.00	5.23	
13 Pentane	43	2.593	2.587	0.006	98	630642	5.00	7.76	
12 Trichlorofluoromethane	101	2.593	2.593	0.000	98	420869	5.00	4.25	
14 Ethyl ether	59	2.770	2.770	0.000	93	268555	5.01	5.26	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.867	2.867	0.000	94	409438	5.00	5.83	
18 1,1-Dichloroethene	96	3.026	3.032	-0.006	98	319325	5.00	6.42	
20 Acetone	43	3.062	3.062	0.000	100	537287	62.6	69.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.081	3.080	0.001	91	306753	5.00	6.07	
22 Iodomethane	142	3.196	3.190	0.006	98	541326	5.00	5.21	
24 Isopropyl alcohol	45	3.227	3.215	0.012	96	58839	37.5	39.4	
25 Carbon disulfide	76	3.282	3.276	0.006	99	1053899	5.00	6.09	M
26 Methyl acetate	43	3.410	3.410	0.000	40	133923	5.00	5.42	
29 3-Chloro-1-propene	41	3.422	3.422	0.000	93	556570	5.00	6.23	
30 Methylene Chloride	84	3.587	3.580	0.007	93	338060	5.00	5.67	
* 31 t-Butyl alcohol-d10 (IS)	65	3.623	3.641	-0.018	95	161627	50.0	50.0	
32 2-Methyl-2-propanol	59	3.733	3.733	0.000	100	136624	50.0	44.1	
33 Acrylonitrile	53	3.891	3.891	0.000	99	324094	25.0	29.0	
34 Methyl tert-butyl ether	73	3.928	3.928	0.000	96	859843	5.00	5.00	
35 trans-1,2-Dichloroethene	96	3.934	3.934	0.000	98	342562	5.00	5.63	
36 Hexane	57	4.318	4.318	0.000	93	559237	5.00	7.24	
37 1,1-Dichloroethane	63	4.556	4.556	0.000	96	633573	5.00	5.75	
39 Isopropyl ether	45	4.629	4.623	0.006	98	1144671	5.00	5.72	
40 2-Chloro-1,3-butadiene	53	4.672	4.672	0.000	90	510667	5.00	5.72	
41 Tert-butyl ethyl ether	59	5.184	5.184	0.000	98	1062829	5.00	5.27	
42 2-Butanone (MEK)	43	5.415	5.409	0.006	100	1076349	62.6	70.5	
43 cis-1,2-Dichloroethene	96	5.422	5.421	0.001	82	454375	5.00	6.83	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2,2-Dichloropropane	77	5.428	5.428	0.000	88	527351	5.00	5.41	
45 Propionitrile	54	5.537	5.507	0.030	97	140524	37.5	42.1	
47 Methacrylonitrile	67	5.720	5.714	0.006	92	667147	37.5	40.7	
48 Chlorobromomethane	128	5.763	5.757	0.006	96	163096	5.00	5.27	
49 Tetrahydrofuran	71	5.787	5.793	-0.006	91	121278	25.0	24.9	
50 Chloroform	83	5.921	5.921	0.000	93	613224	5.00	5.57	
53 1,1,1-Trichloroethane	97	6.135	6.135	0.000	98	550250	5.00	5.66	
\$ 54 Dibromofluoromethane (Surr)	113	6.141	6.141	0.000	94	473815	10.0	9.25	
55 Cyclohexane	56	6.232	6.232	0.000	91	668931	5.00	6.78	
56 Carbon tetrachloride	117	6.348	6.348	0.000	97	460472	5.00	5.54	
57 1,1-Dichloropropene	75	6.366	6.366	0.000	98	498182	5.00	6.05	
58 Isobutyl alcohol	41	6.629	6.598	0.031	58	92566	125.1	118.3	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.610	6.604	0.006	99	96434	10.0	9.55	
60 Benzene	78	6.629	6.629	0.000	97	1495210	5.00	5.95	
61 1,2-Dichloroethane	62	6.714	6.714	0.000	97	338132	5.00	4.66	
64 Tert-amyl methyl ether	73	6.842	6.842	0.000	99	969421	5.00	5.21	
* 65 Fluorobenzene (IS)	96	7.055	7.049	0.006	97	1967191	10.0	10.0	
66 n-Heptane	43	7.074	7.068	0.006	93	617851	5.00	7.65	
67 n-Butanol	56	7.586	7.525	0.061	91	113270	250.2	178.1	
68 Trichloroethene	95	7.549	7.543	0.006	98	428439	5.00	6.43	
69 Methylcyclohexane	83	7.842	7.842	0.000	93	691336	5.00	6.47	
70 1,2-Dichloropropane	63	7.878	7.878	0.000	97	386815	5.00	5.86	
71 2-ethoxy-2-methyl butane	87	7.903	7.903	0.000	92	543937	5.00	5.14	
73 Methyl methacrylate	69	8.000	7.994	0.006	93	155748	5.00	4.84	
74 1,4-Dioxane	88	8.006	8.000	0.006	30	27212	125.1	158.9	
72 Dibromomethane	93	8.000	8.000	0.000	97	164989	5.00	5.06	
76 Dichlorobromomethane	83	8.244	8.244	0.000	99	428928	5.00	5.15	
77 2-Nitropropane	41	8.531	8.531	0.000	99	39987	5.00	3.89	
78 1-Bromo-2-chloroethane	63	8.640	8.640	0.000	98	377025	5.00	5.44	
80 cis-1,3-Dichloropropene	75	8.817	8.817	0.000	97	526085	5.00	5.15	
82 4-Methyl-2-pentanone (MIBK)	43	9.025	9.024	0.000	97	3023203	62.6	71.5	
\$ 83 Toluene-d8 (Surr)	98	9.153	9.152	0.001	93	2130525	10.0	10.8	
84 Toluene	92	9.238	9.238	0.000	98	969978	5.00	6.37	
85 trans-1,3-Dichloropropene	75	9.549	9.543	0.006	92	425039	5.00	5.58	
86 Ethyl methacrylate	69	9.628	9.628	0.000	90	358625	5.00	5.82	
87 1,1,2-Trichloroethane	97	9.762	9.762	0.000	90	258116	5.00	5.70	
88 Tetrachloroethene	166	9.841	9.841	0.000	98	743602	5.00	10.3	
89 1,3-Dichloropropane	76	9.933	9.933	0.000	91	441086	5.00	6.05	
106 2-Hexanone	43	10.012	10.006	0.006	96	1999998	62.6	72.5	
108 Chlorodibromomethane	129	10.158	10.158	0.000	90	309586	5.00	5.43	
110 Ethylene Dibromide	107	10.274	10.268	0.006	98	235381	5.00	5.52	
* 111 Chlorobenzene-d5 (IS)	117	10.738	10.738	0.000	85	1653135	10.0	10.0	
112 1-Chlorohexane	91	10.756	10.756	0.000	97	524099	5.00	6.04	
113 Chlorobenzene	112	10.762	10.762	0.000	95	1051576	5.00	5.80	
114 1,1,1,2-Tetrachloroethane	131	10.853	10.853	0.000	97	361514	5.00	5.74	
115 Ethylbenzene	91	10.860	10.859	0.001	98	1861914	5.00	6.34	
116 m-Xylene & p-Xylene	106	10.981	10.981	0.000	97	1475048	10.0	12.4	
118 o-Xylene	106	11.323	11.323	0.000	97	710509	5.00	6.03	
119 Styrene	104	11.347	11.341	0.006	95	1141073	5.00	5.93	
120 Bromoform	173	11.500	11.500	0.000	98	173769	5.00	4.83	
121 Isopropylbenzene	105	11.640	11.640	0.000	95	1883303	5.00	6.23	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.786	11.786	0.000	92	814104	10.0	9.65	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
126 1,1,2,2-Tetrachloroethane	83	11.902	11.902	0.000	71	329706	5.00	6.14	
125 Bromobenzene	156	11.902	11.902	0.000	91	449462	5.00	6.08	
127 trans-1,4-Dichloro-2-butene	53	11.932	11.926	0.006	81	144366	25.0	11.2	
128 1,2,3-Trichloropropane	110	11.945	11.945	0.000	81	81313	5.00	5.76	
129 N-Propylbenzene	91	11.981	11.975	0.006	99	2180588	5.00	6.62	
130 2-Chlorotoluene	126	12.054	12.054	0.000	97	442330	5.00	6.22	
131 1,3,5-Trimethylbenzene	105	12.121	12.121	0.000	94	1572478	5.00	6.37	
132 4-Chlorotoluene	126	12.152	12.152	0.000	97	457799	5.00	6.24	
133 tert-Butylbenzene	134	12.365	12.365	0.000	93	335815	5.00	5.92	
135 1,2,4-Trimethylbenzene	105	12.414	12.414	0.000	97	1621167	5.00	6.36	
136 sec-Butylbenzene	105	12.536	12.536	0.000	94	2115484	5.00	6.76	
137 1,3-Dichlorobenzene	146	12.634	12.633	0.001	98	862981	5.00	6.01	
138 4-Isopropyltoluene	119	12.652	12.646	0.006	97	1809134	5.00	6.47	
* 139 1,4-Dichlorobenzene-d4	152	12.695	12.688	0.007	93	958639	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.713	12.707	0.006	96	892767	5.00	6.17	
141 1,2,3-Trimethylbenzene	120	12.725	12.719	0.006	98	711743	5.00	6.03	
142 Benzyl chloride	126	12.798	12.792	0.006	98	126251	5.00	5.78	
145 p-Diethylbenzene	119	12.926	12.926	0.000	94	1105996	5.00	6.42	
143 n-Butylbenzene	92	12.951	12.944	0.007	97	875058	5.00	6.73	
144 1,2-Dichlorobenzene	146	12.975	12.975	0.000	99	797538	5.00	5.95	
148 1,2-Dibromo-3-Chloropropane	155	13.542	13.536	0.006	87	37634	5.00	5.20	
149 1,3,5-Trichlorobenzene	180	13.658	13.658	0.000	98	675805	5.00	6.00	
150 1,2,4-Trichlorobenzene	180	14.091	14.091	0.000	94	515542	5.00	5.99	
151 Hexachlorobutadiene	225	14.170	14.170	0.000	96	327470	5.00	6.46	
152 Naphthalene	128	14.273	14.267	0.006	97	807977	5.00	5.86	
153 1,2,3-Trichlorobenzene	180	14.420	14.414	0.006	96	406530	5.00	5.97	
154 2-Methylnaphthalene	142	15.036	15.023	0.013	92	256842	5.00	3.86	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00111

Amount Added: 5.38

Units: uL

MSV_QC_Gas826_00142

Amount Added: 5.38

Units: uL

MSV_LCS_EE_00007

Amount Added: 5.38

Units: uL

MSV_HP25_ISSS_00070

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X08.D

Injection Date: 31-May-2023 23:22:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-127761-A-6 MS

Worklist Smp#: 9

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

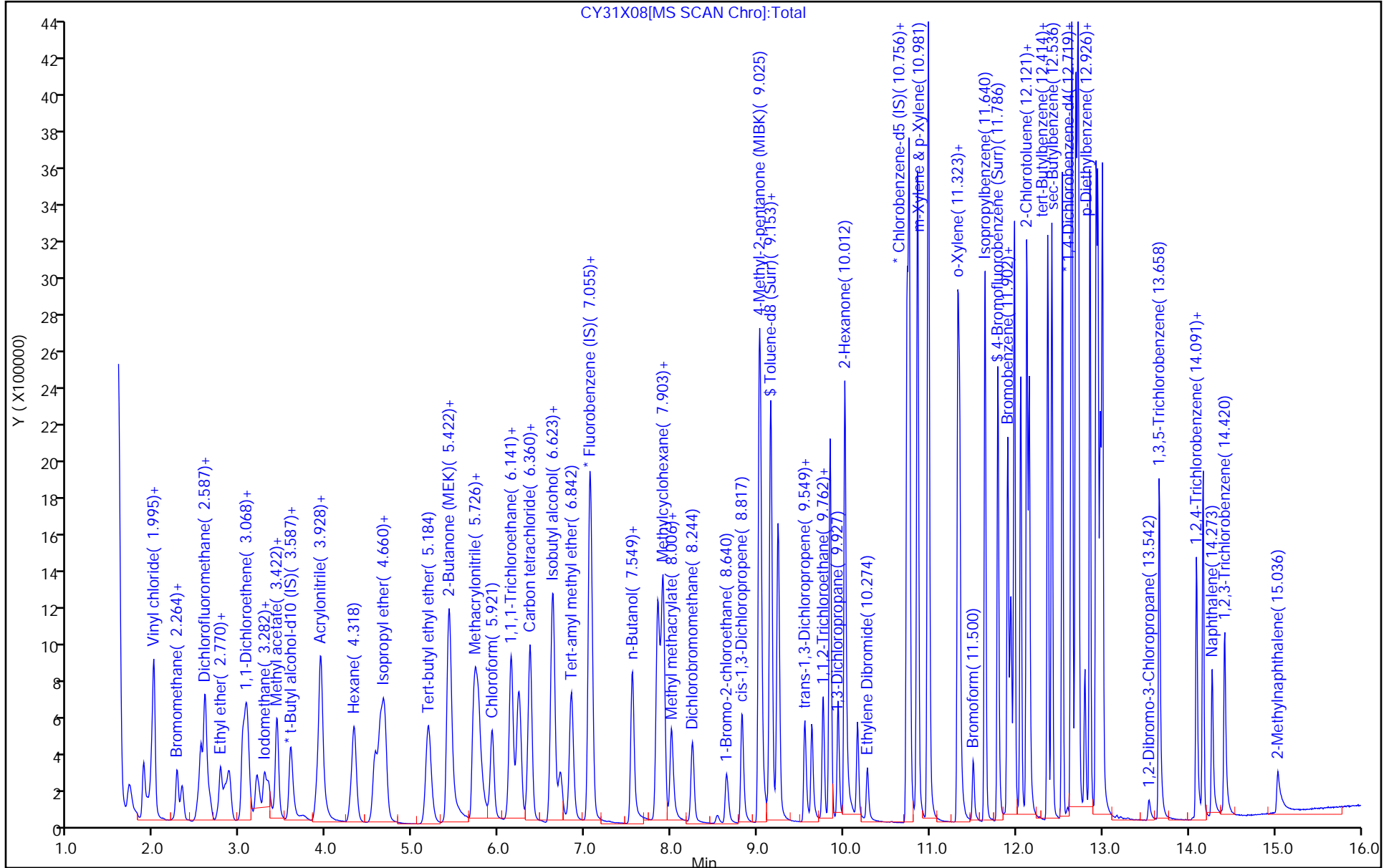
ALS Bottle#: 8

Method: MSV_10193_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\10193\20230531-85466.b\CY31X08.D
 Lims ID: 410-127761-A-6 MS
 Client ID: HD-COD-SW-15-0/1-0 MS
 Sample Type: MS
 Inject. Date: 31-May-2023 23:22:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-009
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 15:01:46 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp

Date: 01-Jun-2023 15:01:46

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.25	92.48
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.55	95.51
\$ 83 Toluene-d8 (Surr)	10.0	10.8	107.90
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.65	96.47

Eurofins Lancaster Laboratories Environment Testing, LLC

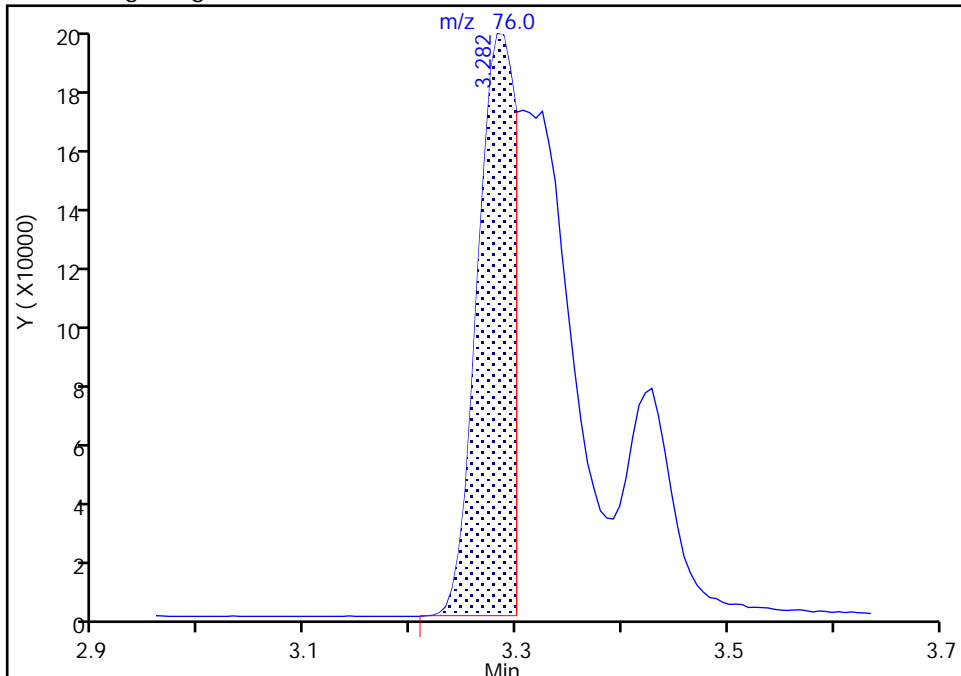
Data File:	\\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X08.D		
Injection Date:	31-May-2023 23:22:30	Instrument ID:	10193
Lims ID:	410-127761-A-6 MS		
Client ID:	HD-COD-SW-15-0/1-0 MS		
Operator ID:	gaw91131	ALS Bottle#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D
Column:	Rxi-624Sil MS Capillary Column (0.25mm ID)	Detector:	MS Quad
		Worklist Smp#:	9

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

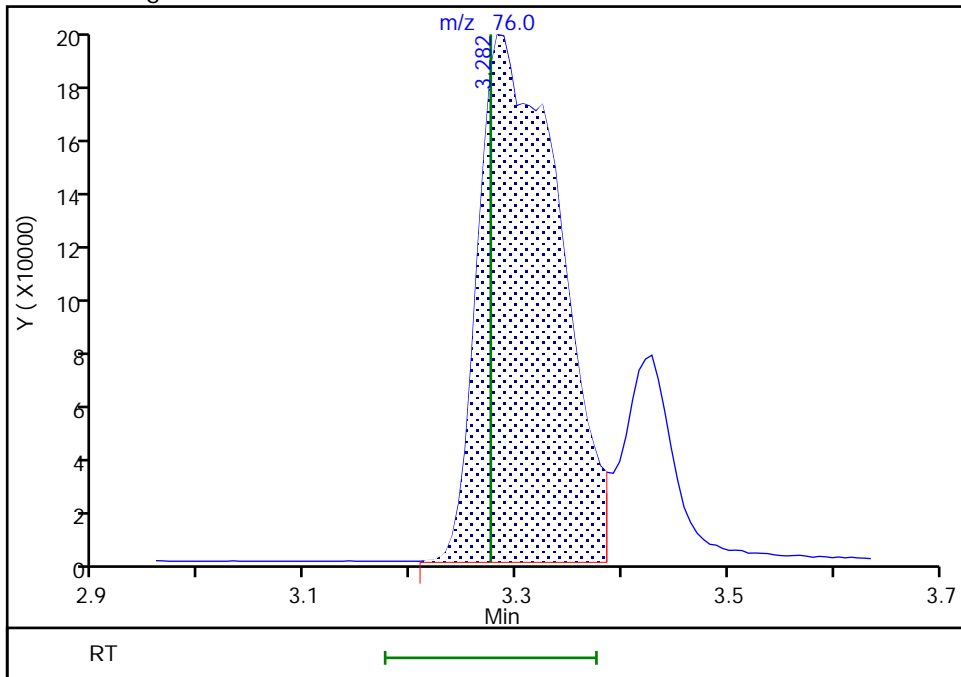
RT: 3.28
 Area: 496497
 Amount: 2.868602
 Amount Units: ug/l

Processing Integration Results



RT: 3.28
 Area: 1053899
 Amount: 6.089094
 Amount Units: ug/l

Manual Integration Results



Reviewer: kaewrungrueangp, 01-Jun-2023 15:01:24 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.: 410-127761-1

SDG No.:

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

Lab Sample ID: 410-127761-6 MSD

Matrix: Water

Lab File ID: CY31X09.D

Analysis Method: 8260D

Date Collected: 05/23/2023 11:38

Sample wt/vol: 25 (mL)

Date Analyzed: 05/31/2023 23:44

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.: 381658

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.68		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.61		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.94		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.50		0.50	0.080
75-34-3	1,1-Dichloroethane	5.73		0.50	0.10
75-35-4	1,1-Dichloroethene	6.29		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.55		0.50	0.080
107-06-2	1,2-Dichloroethane	4.65		0.50	0.070
78-87-5	1,2-Dichloropropane	5.79		0.50	0.10
78-93-3	2-Butanone (MEK)	68.3		5.0	1.0
591-78-6	2-Hexanone	69.7		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	68.6		5.0	1.0
67-64-1	Acetone	66.0		5.0	1.0
71-43-2	Benzene	5.93		0.50	0.10
74-97-5	Bromochloromethane	5.21		0.50	0.080
75-27-4	Bromodichloromethane	5.06		0.50	0.080
75-25-2	Bromoform	4.77		1.0	0.30
74-83-9	Bromomethane	4.73		0.50	0.10
75-15-0	Carbon disulfide	6.04		1.0	0.10
56-23-5	Carbon tetrachloride	5.51		0.50	0.10
108-90-7	Chlorobenzene	5.71		0.50	0.070
75-00-3	Chloroethane	5.01		0.50	0.10
67-66-3	Chloroform	5.55		0.50	0.090
74-87-3	Chloromethane	5.22		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	6.63		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.07		0.50	0.10
124-48-1	Dibromochloromethane	5.28		0.50	0.080
100-41-4	Ethylbenzene	6.22		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.99		0.50	0.080
75-09-2	Methylene Chloride	5.67		0.50	0.10
100-42-5	Styrene	5.84		0.50	0.070
127-18-4	Tetrachloroethene	10.2		0.50	0.20
108-88-3	Toluene	6.13		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1
 Environment Testing, LLC

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MSD Lab Sample ID: 410-127761-6 MSD
 MSD

Matrix: Water Lab File ID: CY31X09.D

Analysis Method: 8260D Date Collected: 05/23/2023 11:38

Sample wt/vol: 25 (mL) Date Analyzed: 05/31/2023 23:44

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.: 381658 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.59		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.45		0.50	0.080
79-01-6	Trichloroethene	6.36		0.50	0.080
75-01-4	Vinyl chloride	5.10		0.50	0.10
1330-20-7	Xylenes, Total	18.0		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	106		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X09.D
 Lims ID: 410-127761-A-6 MSD
 Client ID: HD-COD-SW-15-0/1-0 MSD
 Sample Type: MSD
 Inject. Date: 31-May-2023 23:44:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-010
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 15:10:12 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp

Date:

01-Jun-2023 15:10:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.715	1.715	0.000	99	366283	5.00	4.96	M
5 Chloromethane	50	1.879	1.879	0.000	99	452189	5.00	5.22	
6 Vinyl chloride	62	1.977	1.983	-0.006	98	422631	5.00	5.10	
7 Butadiene	39	1.995	1.995	0.000	90	559698	5.00	7.27	
9 Bromomethane	94	2.263	2.264	-0.001	90	267047	5.00	4.73	
10 Chloroethane	64	2.324	2.325	-0.001	100	244169	5.00	5.01	
11 Dichlorofluoromethane	67	2.544	2.544	0.000	97	583763	5.00	5.09	
13 Pentane	43	2.587	2.587	0.000	97	629645	5.00	7.73	
12 Trichlorofluoromethane	101	2.587	2.593	-0.006	98	418066	5.00	4.21	
14 Ethyl ether	59	2.769	2.770	-0.001	93	259373	5.01	5.06	
16 1,2-Dichloro-1,1,2-trifluoroethane	67	2.867	2.867	0.000	94	390541	5.00	5.54	
18 1,1-Dichloroethene	96	3.026	3.032	-0.006	97	313876	5.00	6.29	
20 Acetone	43	3.068	3.062	0.006	100	521903	62.6	66.0	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.074	3.080	-0.006	91	309887	5.00	6.11	
22 Iodomethane	142	3.190	3.190	0.000	98	540850	5.00	5.19	
24 Isopropyl alcohol	45	3.221	3.215	0.006	33	55143	37.5	36.0	
25 Carbon disulfide	76	3.282	3.276	0.006	99	1048673	5.00	6.04	M
26 Methyl acetate	43	3.416	3.410	0.006	35	141012	5.00	5.56	
29 3-Chloro-1-propene	41	3.422	3.422	0.000	93	557180	5.00	6.22	
30 Methylene Chloride	84	3.580	3.580	0.000	93	338841	5.00	5.67	
* 31 t-Butyl alcohol-d10 (IS)	65	3.629	3.641	-0.012	96	165969	50.0	50.0	
32 2-Methyl-2-propanol	59	3.739	3.733	0.006	100	133408	50.0	41.9	
33 Acrylonitrile	53	3.897	3.891	0.006	100	325465	25.0	28.4	
34 Methyl tert-butyl ether	73	3.928	3.928	0.000	95	861958	5.00	4.99	
35 trans-1,2-Dichloroethene	96	3.928	3.934	-0.006	99	341531	5.00	5.59	
36 Hexane	57	4.318	4.318	0.000	92	571426	5.00	7.37	
37 1,1-Dichloroethane	63	4.556	4.556	0.000	96	633239	5.00	5.73	
39 Isopropyl ether	45	4.629	4.623	0.006	95	1144896	5.00	5.70	
40 2-Chloro-1,3-butadiene	53	4.678	4.672	0.006	90	511338	5.00	5.71	
41 Tert-butyl ethyl ether	59	5.184	5.184	0.000	98	1067309	5.00	5.28	
42 2-Butanone (MEK)	43	5.409	5.409	0.000	100	1071285	62.6	68.3	
43 cis-1,2-Dichloroethene	96	5.421	5.421	0.000	82	442451	5.00	6.63	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2,2-Dichloropropane	77	5.421	5.428	-0.007	58	530945	5.00	5.43	
45 Propionitrile	54	5.549	5.507	0.042	98	173754	37.5	50.7	
47 Methacrylonitrile	67	5.726	5.714	0.012	91	679210	37.5	40.4	
48 Chlorobromomethane	128	5.763	5.757	0.006	97	161788	5.00	5.21	
49 Tetrahydrofuran	71	5.799	5.793	0.006	79	124580	25.0	24.9	
50 Chloroform	83	5.921	5.921	0.000	93	613649	5.00	5.55	
53 1,1,1-Trichloroethane	97	6.141	6.135	0.006	99	546396	5.00	5.61	
\$ 54 Dibromofluoromethane (Surr)	113	6.141	6.141	0.000	94	475159	10.0	9.25	
55 Cyclohexane	56	6.232	6.232	0.000	91	670323	5.00	6.77	
56 Carbon tetrachloride	117	6.354	6.348	0.006	97	459214	5.00	5.51	
57 1,1-Dichloropropene	75	6.366	6.366	0.000	98	500388	5.00	6.06	
58 Isobutyl alcohol	41	6.622	6.598	0.024	85	83547	125.1	104.0	
\$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.610	6.604	0.006	100	103664	10.0	10.2	
60 Benzene	78	6.628	6.629	-0.001	97	1494857	5.00	5.93	
61 1,2-Dichloroethane	62	6.714	6.714	0.000	97	338992	5.00	4.65	
64 Tert-amyl methyl ether	73	6.842	6.842	0.000	99	965163	5.00	5.17	
* 65 Fluorobenzene (IS)	96	7.049	7.049	0.000	97	1973136	10.0	10.0	
66 n-Heptane	43	7.073	7.068	0.005	93	625981	5.00	7.73	
67 n-Butanol	56	7.586	7.525	0.061	90	102038	250.2	161.3	
68 Trichloroethene	95	7.543	7.543	0.000	99	425606	5.00	6.36	
69 Methylcyclohexane	83	7.842	7.842	0.000	91	691140	5.00	6.44	
70 1,2-Dichloropropane	63	7.878	7.878	0.000	95	382885	5.00	5.79	
71 2-ethoxy-2-methyl butane	87	7.909	7.903	0.006	92	539427	5.00	5.08	
73 Methyl methacrylate	69	8.006	7.994	0.012	93	153529	5.00	4.64	
74 1,4-Dioxane	88	8.018	8.000	0.018	31	27022	125.1	153.7	
72 Dibromomethane	93	8.000	8.000	0.000	97	164919	5.00	5.04	
76 Dichlorobromomethane	83	8.244	8.244	0.000	100	422507	5.00	5.06	
77 2-Nitropropane	41	8.537	8.531	0.006	99	42746	5.00	4.05	
78 1-Bromo-2-chloroethane	63	8.640	8.640	0.000	99	367576	5.00	5.29	
80 cis-1,3-Dichloropropene	75	8.823	8.817	0.006	96	519598	5.00	5.07	
82 4-Methyl-2-pentanone (MIBK)	43	9.024	9.024	0.000	97	2978348	62.6	68.6	
\$ 83 Toluene-d8 (Surr)	98	9.152	9.152	0.000	93	2106524	10.0	10.6	
84 Toluene	92	9.238	9.238	0.000	98	941085	5.00	6.13	
85 trans-1,3-Dichloropropene	75	9.549	9.543	0.006	92	418160	5.00	5.45	
86 Ethyl methacrylate	69	9.628	9.628	0.000	90	354962	5.00	5.71	
87 1,1,2-Trichloroethane	97	9.762	9.762	0.000	90	251313	5.00	5.50	
88 Tetrachloroethene	166	9.841	9.841	0.000	98	740015	5.00	10.2	
89 1,3-Dichloropropane	76	9.933	9.933	0.000	91	435027	5.00	5.92	
106 2-Hexanone	43	10.012	10.006	0.006	96	1974639	62.6	69.7	
108 Chlorodibromomethane	129	10.158	10.158	0.000	90	303632	5.00	5.28	
110 Ethylene Dibromide	107	10.274	10.268	0.006	99	238369	5.00	5.55	
* 111 Chlorobenzene-d5 (IS)	117	10.737	10.738	-0.001	85	1666832	10.0	10.0	
112 1-Chlorohexane	91	10.756	10.756	0.000	96	521529	5.00	5.96	
113 Chlorobenzene	112	10.762	10.762	0.000	95	1042685	5.00	5.71	
114 1,1,1,2-Tetrachloroethane	131	10.853	10.853	0.000	96	360438	5.00	5.68	
115 Ethylbenzene	91	10.859	10.859	0.000	98	1841729	5.00	6.22	
116 m-Xylene & p-Xylene	106	10.981	10.981	0.000	97	1452474	10.0	12.1	
118 o-Xylene	106	11.323	11.323	0.000	97	704781	5.00	5.94	
119 Styrene	104	11.347	11.341	0.006	95	1133139	5.00	5.84	
120 Bromoform	173	11.499	11.500	-0.001	98	172965	5.00	4.77	
121 Isopropylbenzene	105	11.640	11.640	0.000	95	1864340	5.00	6.12	
\$ 124 4-Bromofluorobenzene (Surr)	95	11.786	11.786	0.000	93	819140	10.0	9.63	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
126 1,1,2,2-Tetrachloroethane	83	11.902	11.902	0.000	70	325876	5.00	5.94	
125 Bromobenzene	156	11.902	11.902	0.000	91	447227	5.00	5.92	
127 trans-1,4-Dichloro-2-butene	53	11.932	11.926	0.006	85	149350	25.0	11.3	
128 1,2,3-Trichloropropane	110	11.944	11.945	-0.001	82	81102	5.00	5.62	
129 N-Propylbenzene	91	11.981	11.975	0.006	99	2147486	5.00	6.38	
130 2-Chlorotoluene	126	12.054	12.054	0.000	97	438382	5.00	6.03	
131 1,3,5-Trimethylbenzene	105	12.121	12.121	0.000	94	1568447	5.00	6.22	
132 4-Chlorotoluene	126	12.152	12.152	0.000	97	438284	5.00	5.85	
133 tert-Butylbenzene	134	12.365	12.365	0.000	93	327061	5.00	5.64	
135 1,2,4-Trimethylbenzene	105	12.414	12.414	0.000	97	1587702	5.00	6.10	
136 sec-Butylbenzene	105	12.536	12.536	0.000	94	2086049	5.00	6.52	
137 1,3-Dichlorobenzene	146	12.633	12.633	0.000	98	851201	5.00	5.80	
138 4-Isopropyltoluene	119	12.652	12.646	0.006	97	1780609	5.00	6.23	
* 139 1,4-Dichlorobenzene-d4	152	12.694	12.688	0.006	95	979686	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.713	12.707	0.006	96	900478	5.00	6.09	
141 1,2,3-Trimethylbenzene	120	12.725	12.719	0.006	98	710583	5.00	5.89	
142 Benzyl chloride	126	12.798	12.792	0.006	98	117548	5.00	5.27	
145 p-Diethylbenzene	119	12.926	12.926	0.000	94	1099557	5.00	6.25	
143 n-Butylbenzene	92	12.950	12.944	0.006	97	861852	5.00	6.48	
144 1,2-Dichlorobenzene	146	12.975	12.975	0.000	99	791882	5.00	5.78	
148 1,2-Dibromo-3-Chloropropane	155	13.542	13.536	0.006	87	35765	5.00	4.83	
149 1,3,5-Trichlorobenzene	180	13.658	13.658	0.000	98	678980	5.00	5.90	
150 1,2,4-Trichlorobenzene	180	14.090	14.091	-0.001	94	516631	5.00	5.88	
151 Hexachlorobutadiene	225	14.170	14.170	0.000	96	330498	5.00	6.38	
152 Naphthalene	128	14.273	14.267	0.006	97	826009	5.00	5.86	
153 1,2,3-Trichlorobenzene	180	14.420	14.414	0.006	96	409908	5.00	5.89	
154 2-Methylnaphthalene	142	15.035	15.023	0.012	92	278673	5.00	4.08	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00111

Amount Added: 5.38

Units: uL

MSV_QC_Gas826_00142

Amount Added: 5.38

Units: uL

MSV_LCS_EE_00007

Amount Added: 5.38

Units: uL

MSV_HP25_ISSS_00070

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X09.D

Injection Date: 31-May-2023 23:44:30

Instrument ID: 10193

Operator ID: gaw91131

Lims ID: 410-127761-A-6 MSD

Worklist Smp#: 10

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

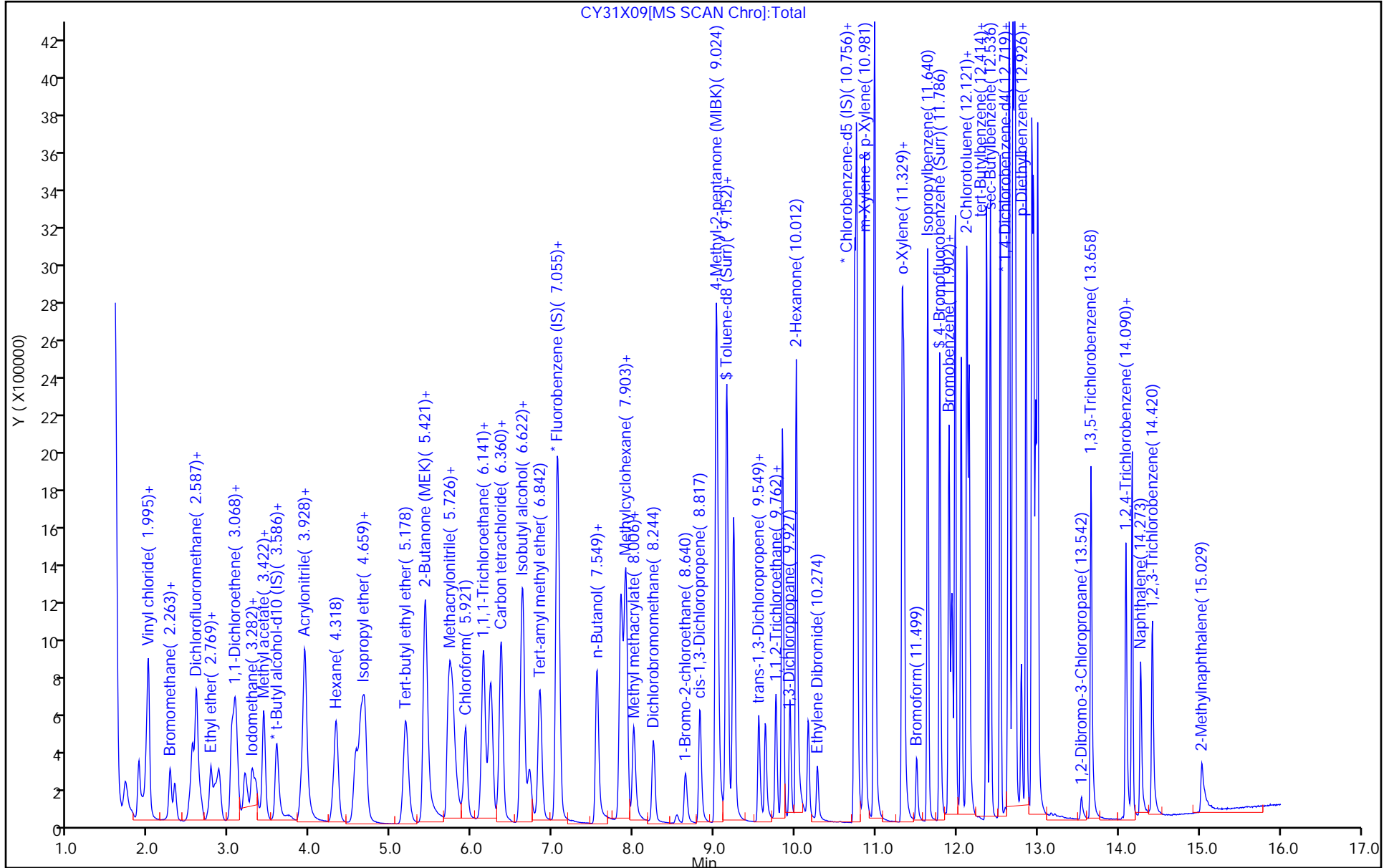
ALS Bottle#: 9

Method: MSV_10193_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\10193\20230531-85466.b\CY31X09.D
 Lims ID: 410-127761-A-6 MSD
 Client ID: HD-COD-SW-15-0/1-0 MSD
 Sample Type: MSD
 Inject. Date: 31-May-2023 23:44:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0085466-010
 Operator ID: gaw91131 Instrument ID: 10193
 Method: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\MSV_10193_25mL.m
 Limit Group: MSV - 8260C_D
 Last Update: 01-Jun-2023 15:10:12 Calib Date: 01-May-2023 21:14:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\10193\20230501-82854.b\CY01X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1611

First Level Reviewer: kaewrungrueangp

Date: 01-Jun-2023 15:10:12

Compound	Amount Added	Amount Recovered	% Rec.
\$ 54 Dibromofluoromethane (Surr)	10.0	9.25	92.47
\$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.36
\$ 83 Toluene-d8 (Surr)	10.0	10.6	105.81
\$ 124 4-Bromofluorobenzene (Surr)	10.0	9.63	96.27

Eurofins Lancaster Laboratories Environment Testing, LLC

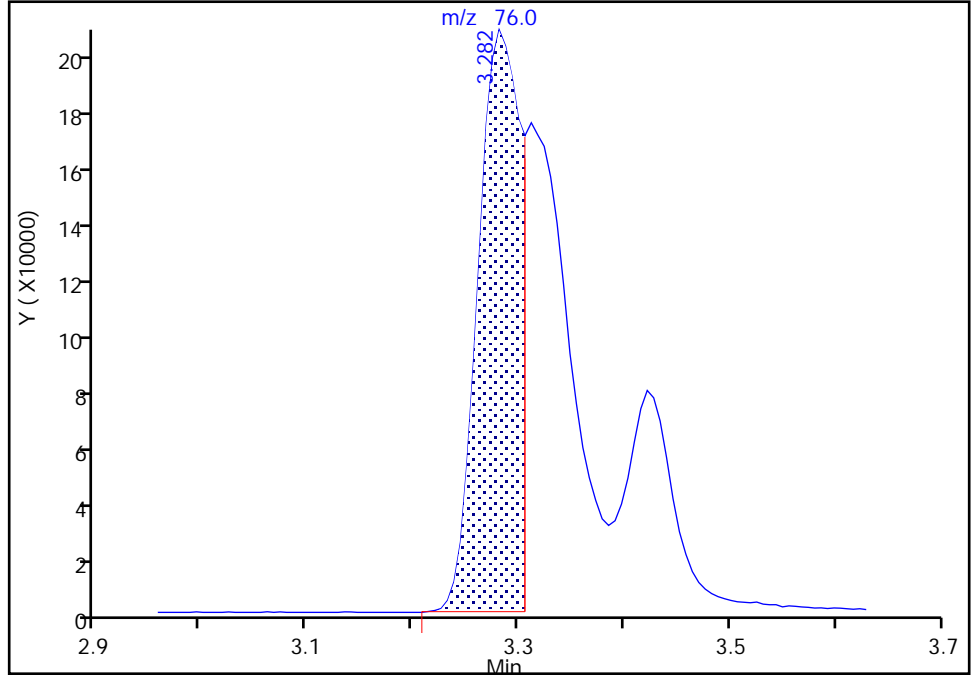
Data File: \\chromfs\Lancaster\ChromData\10193\20230531-85466.b\CY31X09.D
 Injection Date: 31-May-2023 23:44:30 Instrument ID: 10193
 Lims ID: 410-127761-A-6 MSD
 Client ID: HD-COD-SW-15-0/1-0 MSD
 Operator ID: gaw91131 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
 Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

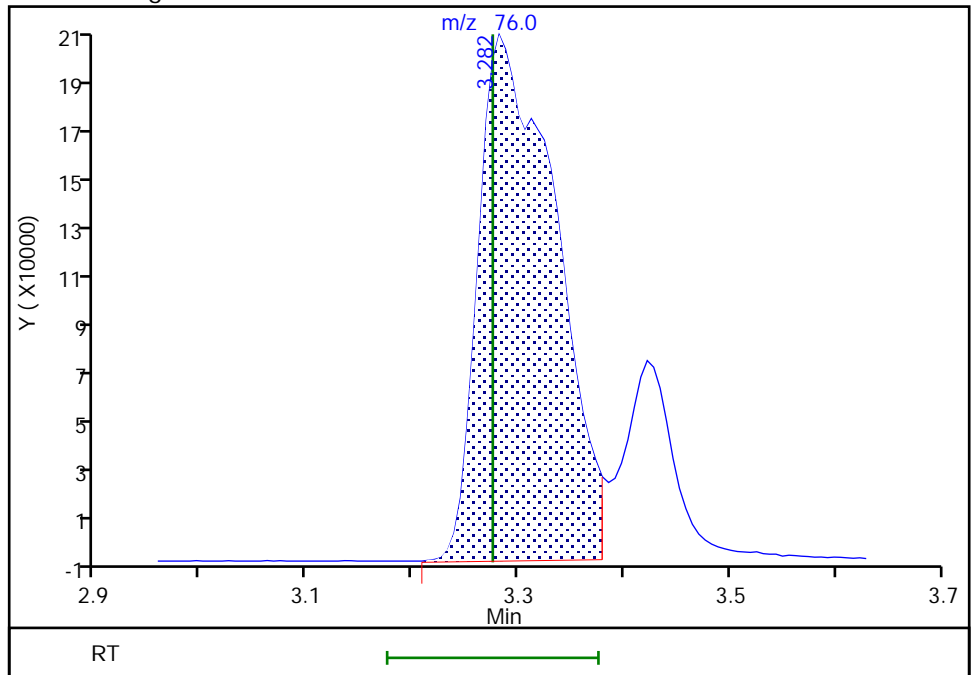
RT: 3.28
 Area: 590280
 Amount: 3.400175
 Amount Units: ug/l

Processing Integration Results



RT: 3.28
 Area: 1048673
 Amount: 6.040645
 Amount Units: ug/l

Manual Integration Results



Reviewer: kaewrungrueangp, 01-Jun-2023 15:09:48 07:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-127761-1

SDG No.: _____

Instrument ID: 10193Start Date: 05/01/2023 14:22Analysis Batch Number: 370594End Date: 05/01/2023 21:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-370594/1		05/01/2023 14:22	1	CY01T01.D	R-624Si1MS 30m 0.25 (mm)
IC 410-370594/3		05/01/2023 15:17	1	CY01X02.D	R-624Si1MS 30m 0.25 (mm)
IC 410-370594/4		05/01/2023 15:40	1	CY01X03.D	R-624Si1MS 30m 0.25 (mm)
IC 410-370594/5		05/01/2023 16:02	1	CY01X04.D	R-624Si1MS 30m 0.25 (mm)
IC 410-370594/6		05/01/2023 16:24	1	CY01X05.D	R-624Si1MS 30m 0.25 (mm)
IC 410-370594/7		05/01/2023 16:47	1	CY01X06.D	R-624Si1MS 30m 0.25 (mm)
IC 410-370594/8		05/01/2023 17:09	1	CY01X07.D	R-624Si1MS 30m 0.25 (mm)
IC 410-370594/9		05/01/2023 17:31	1	CY01X08.D	R-624Si1MS 30m 0.25 (mm)
ICV 410-370594/11		05/01/2023 18:16	1		R-624Si1MS 30m 0.25 (mm)
IC 410-370594/13		05/01/2023 19:00	1	CY01X12.D	R-624Si1MS 30m 0.25 (mm)
IC 410-370594/14		05/01/2023 19:22	1	CY01X13.D	R-624Si1MS 30m 0.25 (mm)
IC 410-370594/15		05/01/2023 19:45	1	CY01X14.D	R-624Si1MS 30m 0.25 (mm)
IC 410-370594/16		05/01/2023 20:07	1	CY01X15.D	R-624Si1MS 30m 0.25 (mm)
IC 410-370594/17		05/01/2023 20:29	1	CY01X16.D	R-624Si1MS 30m 0.25 (mm)
ICIS 410-370594/18		05/01/2023 20:52	1	CY01X17.D	R-624Si1MS 30m 0.25 (mm)
IC 410-370594/19		05/01/2023 21:14	1	CY01X18.D	R-624Si1MS 30m 0.25 (mm)
ICV 410-370594/21		05/01/2023 21:58	1	CY01X20.D	R-624Si1MS 30m 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-127761-1

SDG No.: _____

Instrument ID: 10193 Start Date: 05/31/2023 20:33

Analysis Batch Number: 381658 End Date: 06/01/2023 07:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-381658/1		05/31/2023 20:33	1	CY31T01.D	R-624Si1MS 30m 0.25 (mm)
CCVIS 410-381658/3		05/31/2023 21:08	1	CY31X02.D	R-624Si1MS 30m 0.25 (mm)
LCS 410-381658/4		05/31/2023 21:30	1	CY31X03.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		05/31/2023 21:52	1		R-624Si1MS 30m 0.25 (mm)
MB 410-381658/6		05/31/2023 22:15	1	CY31X05.D	R-624Si1MS 30m 0.25 (mm)
410-127761-14	HD-QC1-0/1-2	05/31/2023 22:37	1	CY31X06.D	R-624Si1MS 30m 0.25 (mm)
410-127761-6	HD-COD-SW-15-0/1-0	05/31/2023 22:59	1	CY31X07.D	R-624Si1MS 30m 0.25 (mm)
410-127761-6 MS	HD-COD-SW-15-0/1-0 MS MS	05/31/2023 23:22	1	CY31X08.D	R-624Si1MS 30m 0.25 (mm)
410-127761-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	05/31/2023 23:44	1	CY31X09.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/01/2023 00:28	20		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/01/2023 00:51	100		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/01/2023 01:13	20000		R-624Si1MS 30m 0.25 (mm)
410-127761-1	HD-COD-SW-6-0/1-0	06/01/2023 01:35	1	CY31X14.D	R-624Si1MS 30m 0.25 (mm)
410-127761-2	HD-COD-SW-7-0/1-0	06/01/2023 01:58	1	CY31X15.D	R-624Si1MS 30m 0.25 (mm)
410-127761-3	HD-COD-SW-8-0/1-0	06/01/2023 02:20	1	CY31X16.D	R-624Si1MS 30m 0.25 (mm)
410-127761-4	HD-COD-SW-9-0/1-0	06/01/2023 02:42	1	CY31X17.D	R-624Si1MS 30m 0.25 (mm)
410-127761-5	HD-COD-SW-13-0/1-0	06/01/2023 03:04	1	CY31X18.D	R-624Si1MS 30m 0.25 (mm)
410-127761-7	HD-COD-SW-16-0/1-0	06/01/2023 03:27	1	CY31X19.D	R-624Si1MS 30m 0.25 (mm)
410-127761-8	HD-COD-SW-17-0/1-0	06/01/2023 03:49	1	CY31X20.D	R-624Si1MS 30m 0.25 (mm)
410-127761-9	HD-COD-SW-26-0/1-0	06/01/2023 04:11	1	CY31X21.D	R-624Si1MS 30m 0.25 (mm)
410-127761-10	HD-COD-SW-27-0/1-0	06/01/2023 04:34	1	CY31X22.D	R-624Si1MS 30m 0.25 (mm)
410-127761-11	HD-COD-SW-28-0/1-0	06/01/2023 04:56	1	CY31X23.D	R-624Si1MS 30m 0.25 (mm)
410-127761-12	HD-COD-SW-29-0/1-0	06/01/2023 05:18	1	CY31X24.D	R-624Si1MS 30m 0.25 (mm)
410-127761-13	HD-QC1-0/1-1	06/01/2023 05:40	1	CY31X25.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/01/2023 06:03	50		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/01/2023 06:25	500		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/01/2023 06:47	50		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/01/2023 07:09	500		R-624Si1MS 30m 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-127761-1

SDG No.: _____

Instrument ID: 10193 Start Date: 06/01/2023 20:07

Analysis Batch Number: 382118 End Date: 06/02/2023 06:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-382118/1		06/01/2023 20:07	1	CU01T01.D	R-624Si1MS 30m 0.25 (mm)
CCVIS 410-382118/3		06/01/2023 20:41	1	CU01X02.D	R-624Si1MS 30m 0.25 (mm)
LCS 410-382118/4		06/01/2023 21:04	1	CU01X03.D	R-624Si1MS 30m 0.25 (mm)
LCSD 410-382118/5		06/01/2023 21:28	1	CU01X04.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/01/2023 21:51	1		R-624Si1MS 30m 0.25 (mm)
MB 410-382118/7		06/01/2023 22:13	1	CU01X06.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/01/2023 22:35	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/01/2023 22:57	20		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/01/2023 23:20	20		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/01/2023 23:42	200		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/02/2023 00:04	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/02/2023 00:27	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/02/2023 00:49	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/02/2023 01:11	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/02/2023 01:33	10		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/02/2023 01:56	10		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/02/2023 02:18	10		R-624Si1MS 30m 0.25 (mm)
410-127761-8 DL	HD-COD-SW-17-0/1-0 DL	06/02/2023 02:40	10	CU01X18.D	R-624Si1MS 30m 0.25 (mm)
410-127761-13 DL	HD-QC1-0/1-1 DL	06/02/2023 03:03	10	CU01X19.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/02/2023 03:25	10		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/02/2023 03:47	100		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/02/2023 04:09	20		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/02/2023 04:32	20		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/02/2023 04:54	200		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/02/2023 05:16	100		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/02/2023 05:39	100		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/02/2023 06:01	200		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		06/02/2023 06:23	200		R-624Si1MS 30m 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1

SDG No.: _____

Batch Number: 370594 Batch Start Date: 05/01/23 14:22 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	LCS_ETBR 00005	MSV_CCV_CYC 00005	MSV_CCV_V5ACE 00023
BFB 410-370594/1		8260D		1 uL	1 uL				
IC 410-370594/3		8260D		25 mL	25 mL	2684		1.6 uL	0.2 uL
IC 410-370594/4		8260D		25 mL	25 mL	2864		4 uL	0.5 uL
IC 410-370594/5		8260D		25 mL	25 mL	2864		4 uL	0.5 uL
IC 410-370594/6		8260D		25 mL	25 mL	2864		8 uL	1 uL
IC 410-370594/7		8260D		25 mL	25 mL	2864		8 uL	1 uL
IC 410-370594/8		8260D		25 mL	25 mL	2864		8 uL	1 uL
IC 410-370594/9		8260D		25 mL	25 mL	2864		20 uL	2.5 uL
IC 410-370594/13		8260D		25 mL	25 mL	2864			
IC 410-370594/14		8260D		25 mL	25 mL	2864			
IC 410-370594/15		8260D		25 mL	25 mL	2864			
IC 410-370594/16		8260D		25 mL	25 mL	2864			
IC 410-370594/17		8260D		25 mL	25 mL	2864			
ICIS 410-370594/18		8260D		25 mL	25 mL	2864			
IC 410-370594/19		8260D		25 mL	25 mL	2864			
ICV 410-370594/21		8260D		25 mL	25 mL	2864	12.5 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_DME 00047	MSV_HP25_ISO 00008	MSV_HP25_ISSS 00068	MSV_LCS_ACROL 00111	MSV_LCS_EE 00005	MSV_LCS_Penta 00028
BFB 410-370594/1		8260D							
IC 410-370594/3		8260D		0.2 uL	1 uL				
IC 410-370594/4		8260D		0.5 uL	1 uL				
IC 410-370594/5		8260D		0.5 uL	1 uL				
IC 410-370594/6		8260D		1 uL	1 uL				
IC 410-370594/7		8260D		1 uL	1 uL				
IC 410-370594/8		8260D		1 uL	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.: 410-127761-1

SDG No.: _____

Batch Number: 370594 Batch Start Date: 05/01/23 14:22 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_DME 00047	MSV_HP25_ISO 00008	MSV_HP25_ISSS 00068	MSV_LCS_ACROL 00111	MSV_LCS_EE 00005	MSV_LCS_Penta 00028
IC 410-370594/9		8260D		2.5 uL	1 uL				
IC 410-370594/13		8260D				1 uL			
IC 410-370594/14		8260D				1 uL			
IC 410-370594/15		8260D				1 uL			
IC 410-370594/16		8260D				1 uL			
IC 410-370594/17		8260D				1 uL			
ICIS 410-370594/18		8260D				1 uL			
IC 410-370594/19		8260D				1 uL			
ICV 410-370594/21		8260D				1 uL	12.5 uL	12.5 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_VOC#1 00107	MSV_LL_#1_826 00075	MSV_LL_#2_826 00083	MSV_LL_GAS826 00148	MSV_QC_Gas826 00137	MSV_V_BFB 00011
BFB 410-370594/1		8260D							1 uL
IC 410-370594/3		8260D							
IC 410-370594/4		8260D							
IC 410-370594/5		8260D							
IC 410-370594/6		8260D							
IC 410-370594/7		8260D							
IC 410-370594/8		8260D							
IC 410-370594/9		8260D							
IC 410-370594/13		8260D			2 uL	2 uL	2 uL		
IC 410-370594/14		8260D			2 uL	2 uL	2 uL		
IC 410-370594/15		8260D			2 uL	2 uL	2 uL		
IC 410-370594/16		8260D			2 uL	2 uL	2 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1

SDG No.: _____

Batch Number: 370594 Batch Start Date: 05/01/23 14:22 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_VOC#1 00107	MSV_LL_#1_826 00075	MSV_LL_#2_826 00083	MSV_LL_GAS826 00148	MSV_QC_Gas826 00137	MSV_V_BFB 00011
IC 410-370594/17		8260D			5 uL	5 uL	5 uL		
ICIS 410-370594/18		8260D			10 uL	10 uL	10 uL		
IC 410-370594/19		8260D			25 uL	25 uL	25 uL		
ICV 410-370594/21		8260D		12.5 uL				12.5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_SMRV4 00058					
BFB 410-370594/1		8260D							
IC 410-370594/3		8260D		1 uL					
IC 410-370594/4		8260D		2.5 uL					
IC 410-370594/5		8260D		2.5 uL					
IC 410-370594/6		8260D		5 uL					
IC 410-370594/7		8260D		5 uL					
IC 410-370594/8		8260D		5 uL					
IC 410-370594/9		8260D		12.5 uL					
IC 410-370594/13		8260D							
IC 410-370594/14		8260D							
IC 410-370594/15		8260D							
IC 410-370594/16		8260D							
IC 410-370594/17		8260D							
ICIS 410-370594/18		8260D							
IC 410-370594/19		8260D							
ICV 410-370594/21		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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1

SDG No.: _____

Batch Number: 370594 Batch Start Date: 05/01/23 14:22 Batch Analyst: Kephart, Kayla

Batch 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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1

SDG No.: _____

Batch Number: 381658 Batch Start Date: 05/31/23 20:33 Batch Analyst: Walmer, Gavin

Batch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloChe ck	Headspace	Lot#Vial
BFB 410-381658/1		8260D		1 uL	1 uL				
CCVIS 410-381658/3		8260D		25 mL	25 mL				2692
LCS 410-381658/4		8260D		25 mL	25 mL				2692
MB 410-381658/6		8260D		25 mL	25 mL				2692
410-127761-A-14	HD-QC1-0/1-2	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-127761-A-6	HD-COD-SW-15-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-127761-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-127761-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-127761-A-1	HD-COD-SW-6-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-127761-A-2	HD-COD-SW-7-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-127761-A-3	HD-COD-SW-8-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-127761-A-4	HD-COD-SW-9-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-127761-A-5	HD-COD-SW-13-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-127761-A-7	HD-COD-SW-16-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-127761-A-8	HD-COD-SW-17-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-127761-A-9	HD-COD-SW-26-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-127761-A-10	HD-COD-SW-27-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-127761-A-11	HD-COD-SW-28-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-127761-A-12	HD-COD-SW-29-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-127761-A-13	HD-QC1-0/1-1	8260D	T	25 mL	25 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_HP25_ISSS 00070	MSV_LCS_EE 00007	MSV_LCS_VOC#1 00111	MSV_LL_#1_826 00078	MSV_LL_#2_826 00089	MSV_LL_GAS826 00152

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.: 410-127761-1

SDG No.: _____

Batch Number: 381658 Batch Start Date: 05/31/23 20:33 Batch Analyst: Walmer, Gavin

Batch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_HP25_ISSS 00070	MSV_LCS_EE 00007	MSV_LCS_VOC#1 00111	MSV_LL_#1_826 00078	MSV_LL_#2_826 00089	MSV_LL_GAS826 00152
BFB 410-381658/1		8260D							
CCVIS 410-381658/3		8260D		1 uL			10 uL	10 uL	10 uL
LCS 410-381658/4		8260D		1 uL	6.25 uL	6.25 uL			
MB 410-381658/6		8260D		1 uL					
410-127761-A-14	HD-QC1-0/1-2	8260D	T	1 uL					
410-127761-A-6	HD-COD-SW-15-0/1-0	8260D	T	1 uL					
410-127761-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	T	1 uL	5.38 uL	5.38 uL			
410-127761-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	T	1 uL	5.38 uL	5.38 uL			
410-127761-A-1	HD-COD-SW-6-0/1-0	8260D	T	1 uL					
410-127761-A-2	HD-COD-SW-7-0/1-0	8260D	T	1 uL					
410-127761-A-3	HD-COD-SW-8-0/1-0	8260D	T	1 uL					
410-127761-A-4	HD-COD-SW-9-0/1-0	8260D	T	1 uL					
410-127761-A-5	HD-COD-SW-13-0/1-0	8260D	T	1 uL					
410-127761-A-7	HD-COD-SW-16-0/1-0	8260D	T	1 uL					
410-127761-A-8	HD-COD-SW-17-0/1-0	8260D	T	1 uL					
410-127761-A-9	HD-COD-SW-26-0/1-0	8260D	T	1 uL					
410-127761-A-10	HD-COD-SW-27-0/1-0	8260D	T	1 uL					
410-127761-A-11	HD-COD-SW-28-0/1-0	8260D	T	1 uL					
410-127761-A-12	HD-COD-SW-29-0/1-0	8260D	T	1 uL					
410-127761-A-13	HD-QC1-0/1-1	8260D	T	1 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_QC_Gas826 00142	MSV_V_BFB 00011				

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.: 410-127761-1

SDG No.: _____

Batch Number: 381658 Batch Start Date: 05/31/23 20:33 Batch Analyst: Walmer, Gavin

Batch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_QC_Gas826 00142	MSV_V_BFB 00011				
BFB 410-381658/1		8260D			1 uL				
CCVIS 410-381658/3		8260D							
LCS 410-381658/4		8260D		6.25 uL					
MB 410-381658/6		8260D							
410-127761-A-14	HD-QC1-0/1-2	8260D	T						
410-127761-A-6	HD-COD-SW-15-0/1-0	8260D	T						
410-127761-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	T	5.38 uL					
410-127761-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	T	5.38 uL					
410-127761-A-1	HD-COD-SW-6-0/1-0	8260D	T						
410-127761-A-2	HD-COD-SW-7-0/1-0	8260D	T						
410-127761-A-3	HD-COD-SW-8-0/1-0	8260D	T						
410-127761-A-4	HD-COD-SW-9-0/1-0	8260D	T						
410-127761-A-5	HD-COD-SW-13-0/1-0	8260D	T						
410-127761-A-7	HD-COD-SW-16-0/1-0	8260D	T						
410-127761-A-8	HD-COD-SW-17-0/1-0	8260D	T						
410-127761-A-9	HD-COD-SW-26-0/1-0	8260D	T						
410-127761-A-10	HD-COD-SW-27-0/1-0	8260D	T						
410-127761-A-11	HD-COD-SW-28-0/1-0	8260D	T						
410-127761-A-12	HD-COD-SW-29-0/1-0	8260D	T						
410-127761-A-13	HD-QC1-0/1-1	8260D	T						

Batch Notes	

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.: 410-127761-1

SDG No.: _____

Batch Number: 381658 Batch Start Date: 05/31/23 20:33 Batch Analyst: Walmer, GavinBatch Method: 8260D Batch End Date: _____

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1

SDG No.: _____

Batch Number: 382118 Batch Start Date: 06/01/23 20:07 Batch Analyst: Walmer, Gavin

Batch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloChe ck	Headspace	Lot#Vial
BFB 410-382118/1		8260D		1 uL	1 uL				
CCVIS 410-382118/3		8260D		25 mL	25 mL				2692
LCS 410-382118/4		8260D		25 mL	25 mL				2692
LCSD 410-382118/5		8260D		25 mL	25 mL				2692
MB 410-382118/7		8260D		25 mL	25 mL				2692
410-127761-B-8	HD-COD-SW-17-0/1 -0	8260D	T	25 mL	25 mL	<2 SU	N	N	2692
410-127761-B-13	HD-QC1-0/1-1	8260D	T	25 mL	25 mL	<2 SU	N	N	2692

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_HP25_ISSS 00071	MSV_LCS_VOC#1 00111	MSV_LL_#1_826 00078	MSV_LL_#2_826 00089	MSV_LL_GAS826 00152	MSV_QC_Gas826 00142
BFB 410-382118/1		8260D							
CCVIS 410-382118/3		8260D		1 uL		12.5 uL	12.5 uL	12.5 uL	
LCS 410-382118/4		8260D		1 uL	12.5 uL				12.5 uL
LCSD 410-382118/5		8260D		1 uL	12.5 uL				12.5 uL
MB 410-382118/7		8260D		1 uL					
410-127761-B-8	HD-COD-SW-17-0/1 -0	8260D	T	1 uL					
410-127761-B-13	HD-QC1-0/1-1	8260D	T	1 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_BFB 00011					
BFB 410-382118/1		8260D		1 uL					
CCVIS 410-382118/3		8260D							
LCS 410-382118/4		8260D							
LCSD 410-382118/5		8260D							
MB 410-382118/7		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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-127761-1

SDG No.: _____

Batch Number: 382118 Batch Start Date: 06/01/23 20:07 Batch Analyst: Walmer, Gavin

Batch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_BFB 00011					
410-127761-B-8	HD-COD-SW-17-0/1 -0	8260D	T						
410-127761-B-13	HD-QC1-0/1-1	8260D	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



370472
HARRISBURG PA
Environmental



410-127761 Chain of Custody

1/Chain of Custody

1 of 2

Lancaster Laboratories
Environmental

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		<input type="checkbox"/> Tissue	<input type="checkbox"/> Ground	<input checked="" type="checkbox"/> Surface	Preservation Codes								SF #: _____			
Project Manager: Chris O'Neil		P.O. #: 10012.51		<input type="checkbox"/> Potable	<input type="checkbox"/> NPDES										SCR #: _____			
Sampler: Casey Littlefield / Lucas Grimm		PWSID #: N/A		<input type="checkbox"/> Soil	<input type="checkbox"/> Water	<input type="checkbox"/> Other:									Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ P = H ₃ PO ₄ O = Other			
Phone #: (717) 901-8176 / (717) 756-1246		Quote #:													Remarks			
State where samples were collected: York, PA		For Compliance: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																
Sample Identification																		
		Collection		Grab	Composite													
		Date	Time				Total # of Containers											
HD-COD-SW-6-0/1-0		5/23/2023	1033	X			3	X									All samples	
HD-COD-SW-7-0/1-0			1110	X			3	X									preserved on	
HD-COD-SW-8-0/1-0			0920	X			3	X									ice	
HD-COD-SW-9-0/1-0			1255	X			3	X										
HD-COD-SW-13-0/1-0			0945	X			3	X										
HD-COD-SW-15-0/1-0			1138	X			3	X										
HD-COD-SW-15-0/1-0 MS			1138	X			3	X										
HD-COD-SW-15-0/1-0 MSD			1138	X			3	X										
HD-COD-SW-16-0/1-0			1005	X			3	X										
HD-COD-SW-17-0/1-0			1015	X			3	X										
Turnaround Time Requested (TAT) (please check): Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> (Rush TAT is subject to laboratory approval and surcharges.)				Relinquished by: <i>[Signature]</i>			Date	Time	Received by: <i>[Signature]</i>			Date	Time					
Date results are needed: STANDARD				Relinquished by: <i>[Signature]</i>			5/23/23	1410	5/23/23			1410						
Rush results requested by (please check): E-Mail <input checked="" type="checkbox"/> Phone <input type="checkbox"/>				Relinquished by: <i>[Signature]</i>			5/23/23	1440	5/23/23			1440						
E-mail Address: ON FILE				Relinquished by: <i>[Signature]</i>			5/23/23	1635										
Phone: _____				Relinquished by: _____														
Data Package Options (please check if required)				Relinquished by: _____					Received by: _____									
Type I (Validation/non-CLP) <input type="checkbox"/>		MA MCP <input type="checkbox"/>		Relinquished by: _____					Received by: _____									
Type III (Reduced non-CLP) <input type="checkbox"/>		CT RCP <input type="checkbox"/>		Relinquished by: _____					Received by: _____									
Type VI (Raw Data Only) <input type="checkbox"/>		TX TRRP-13 <input type="checkbox"/>		Relinquished by: _____					Received by: _____									
NJ DKQP <input type="checkbox"/>		NYSDEC Category <input type="checkbox"/> A or <input type="checkbox"/> B		Relinquished by: _____					Received by: _____									
EDD Required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, format: _____ List				Relinquished by: _____					Received by: _____									
CLP Like Deliverables, Project Specific Analyte List				Relinquished by: _____					Received by: _____									
UPS _____ FedEx _____ Other _____				Relinquished by: _____					Received by: _____									
Raw 4.8 Temperature upon receipt <u>6.1</u> °C				Relinquished by: _____					Received by: _____									

NK

37047 Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

HARRISBURG PA

2 of 2

Acct. # _____ Group # _____ Sample # _____

Client: Groundwater Sciences Corporation				Matrix			Analyses Requested								For Lab Use Only		
Project Name/#: FYNOP Monthly Surface Water		Site ID #: FYNOP, York PA		<input type="checkbox"/> Tissue	<input type="checkbox"/> Ground	<input checked="" type="checkbox"/> Surface	Preservation Codes								SF #: _____		
Project Manager: Chris O'Neil		P.O. #: 10012.51		<input type="checkbox"/> Potable	<input type="checkbox"/> NPDES	Other: Trip Blank									SCR #: _____		
Sampler: Casey Littlefield / Lucas Grimm		PWSID #: N/A		<input type="checkbox"/> Water													
Phone #: (717) 901-8176 / (717) 756-1246		Quote #:				Total # of Containers									Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ P = H ₃ PO ₄ O = Other		
State where samples were collected: York, PA		For Compliance: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		<input type="checkbox"/> Sediment													
Collection				Soil	Water	Other: Trip Blank	Total # of Containers									Remarks	
Sample Identification		Date	Time														
HD-COD-SW-26-0/1-0		5/23/2023	1056	X			3	X								All samples	
HD-COD-SW-27-0/1-0			1130	X			3	X								preserved on ice	
HD-COD-SW-28-0/1-0			1308	X			3	X									
HD-COD-SW-29-0/1-0			0907	X			3	X									
HD-QC1-0/1-1			1200	X			3	X									
HD-QC1-0/1-2			—	X		X	2	X								Trip Blank	
Turnaround Time Requested (TAT) (please check): Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> (Rush TAT is subject to laboratory approval and surcharges.)				Relinquished by: <i>[Signature]</i>		Date	Time	Received by: <i>[Signature]</i>		Date	Time						
Date results are needed: STANDARD				Relinquished by: <i>[Signature]</i>		5/23/23	1410	Received by: <i>[Signature]</i>		5/23/23	1410						
Rush results requested by (please check): E-Mail <input checked="" type="checkbox"/> Phone <input type="checkbox"/>				Relinquished by: <i>[Signature]</i>		5/23/23	1440	Received by: <i>[Signature]</i>		5/23/23	1440						
E-mail Address: ON FILE				Relinquished by: <i>[Signature]</i>		5/23/23	1635	Received by: <i>[Signature]</i>									
Phone: _____				Relinquished by: _____		Date	Time	Received by: _____		Date	Time						
Data Package Options (please check if required)				Relinquished by: _____		Date	Time	Received by: _____		Date	Time						
Type I (Validation/non-CLP)	<input type="checkbox"/>	MA MCP	<input type="checkbox"/>	Relinquished by: _____		Date	Time	Received by: <i>[Signature]</i>		5-23-23	1635						
Type III (Reduced non-CLP)	<input type="checkbox"/>	CT RCP	<input type="checkbox"/>	Relinquished by: _____		Date	Time	Received by: _____		Date	Time						
Type VI (Raw Data Only)	<input type="checkbox"/>	TX TRRP-13	<input type="checkbox"/>	Relinquished by: _____		Date	Time	Received by: _____		Date	Time						
NJ DKQP	<input type="checkbox"/>	NYSDEC Category	<input type="checkbox"/> A or <input type="checkbox"/> B	Relinquished by Commercial Carrier:				Temperature upon receipt Raw 4.8 corr 4.1 °C									
EDD Required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, format: _____ List				CLP Like Deliverables, Project Specific Analyte		UPS _____ FedEx _____ Other _____											

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Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-127761-1

Login Number: 127761

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Kanagy, Nicholas

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	