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ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/3/2023 12:04 AM

JOB DESCRIPTION

fYNOP Monthly Surface water

JOB NUMBER

410-113568-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

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

Authorization

Generated
2/3/2023 12:04 AM

Authorized for release by
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Table of Contents

Qualifiers

GC/MS VOA

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

Glossary

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

Job Narrative
410-113568-1

Receipt
The samples were received on 1/26/2023 6:03 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 1.4°C

GC/MS VOA
Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-340101 recovered outside acceptance criteria, low biased, for Carbon disulfide. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

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

Detection Summary

Client: Groundwater Sciences Corporation
Job ID: 410-113568-1
Project/Site: fYNOP Monthly Surface water

Client Sample ID: HD-COD-SW-6-0/1-0
Lab Sample ID: 410-113568-1

No Detections.

Client Sample ID: HD-COD-SW-7-0/1-0
Lab Sample ID: 410-113568-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.14	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-8-0/1-0
Lab Sample ID: 410-113568-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.6	J	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.16	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.46	J	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.16	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-9-0/1-0
Lab Sample ID: 410-113568-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.2	J	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.14	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.13	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-13-0/1-0
Lab Sample ID: 410-113568-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.1	J	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.15	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.55		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.16	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-15-0/1-0
Lab Sample ID: 410-113568-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.37	J	0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.14	J	0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.19	J	0.50	0.10	ug/L	1		8260D	Total/NA
Acetone	1.1	J	5.0	1.0	ug/L	1		8260D	Total/NA
Chloroform	0.27	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.3		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	5.5		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	1.8		0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-16-0/1-0
Lab Sample ID: 410-113568-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.15	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.87		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.17	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-17-0/1-0
Lab Sample ID: 410-113568-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	5.4		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	1.0		0.50	0.10	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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

Lab Sample ID: 410-113568-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.49	J	0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.25	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	3.1		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	3.6		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	60		5.0	2.0	ug/L	10		8260D	Total/NA

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

Lab Sample ID: 410-113568-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.18	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.12	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.1		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.15	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-113568-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.14	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.15	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-113568-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.5	J	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.14	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-29-0/1-0

Lab Sample ID: 410-113568-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.15	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.27	J	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.15	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-113568-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	5.4		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	1.0		0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.47	J	0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.25	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	3.1		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	3.6		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	65		5.0	2.0	ug/L	10		8260D	Total/NA

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

Lab Sample ID: 410-113568-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.6	J	5.0	1.0	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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

Lab Sample ID: 410-113568-1

Date Collected: 01/25/23 10:05

Matrix: Water

Date Received: 01/26/23 18:03

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			01/31/23 13:02	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 13:02	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			01/31/23 13:02	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 13:02	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			01/31/23 13:02	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 13:02	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			01/31/23 13:02	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			01/31/23 13:02	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			01/31/23 13:02	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			01/31/23 13:02	1
2-Hexanone	ND		5.0	0.10	ug/L			01/31/23 13:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			01/31/23 13:02	1
Acetone	ND		5.0	1.0	ug/L			01/31/23 13:02	1
Benzene	ND		0.50	0.10	ug/L			01/31/23 13:02	1
Bromochloromethane	ND		0.50	0.080	ug/L			01/31/23 13:02	1
Bromodichloromethane	ND		0.50	0.080	ug/L			01/31/23 13:02	1
Bromoform	ND		1.0	0.30	ug/L			01/31/23 13:02	1
Bromomethane	ND		0.50	0.10	ug/L			01/31/23 13:02	1
Carbon disulfide	ND	^c cn	1.0	0.10	ug/L			01/31/23 13:02	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			01/31/23 13:02	1
Chlorobenzene	ND		0.50	0.070	ug/L			01/31/23 13:02	1
Chloroethane	ND		0.50	0.10	ug/L			01/31/23 13:02	1
Chloroform	ND		0.50	0.090	ug/L			01/31/23 13:02	1
Chloromethane	ND		0.50	0.10	ug/L			01/31/23 13:02	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			01/31/23 13:02	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			01/31/23 13:02	1
Dibromochloromethane	ND		0.50	0.080	ug/L			01/31/23 13:02	1
Ethylbenzene	ND		0.50	0.080	ug/L			01/31/23 13:02	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			01/31/23 13:02	1
Methylene Chloride	ND		0.50	0.10	ug/L			01/31/23 13:02	1
Styrene	ND		0.50	0.070	ug/L			01/31/23 13:02	1
Tetrachloroethene	ND		0.50	0.20	ug/L			01/31/23 13:02	1
Toluene	ND		0.50	0.080	ug/L			01/31/23 13:02	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 13:02	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			01/31/23 13:02	1
Trichloroethene	ND		0.50	0.080	ug/L			01/31/23 13:02	1
Vinyl chloride	ND		0.50	0.10	ug/L			01/31/23 13:02	1
Xylenes, Total	ND		1.0	0.070	ug/L			01/31/23 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*01/31/23 13:02*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*01/31/23 13:02*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*01/31/23 13:02*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*01/31/23 13:02*	*1*

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

Lab Sample ID: 410-113568-2

Date Collected: 01/25/23 11:12

Matrix: Water

Date Received: 01/26/23 18:03

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			01/31/23 13:24	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 13:24	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			01/31/23 13:24	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 13:24	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			01/31/23 13:24	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 13:24	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			01/31/23 13:24	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			01/31/23 13:24	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			01/31/23 13:24	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			01/31/23 13:24	1
2-Hexanone	ND		5.0	0.10	ug/L			01/31/23 13:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			01/31/23 13:24	1
Acetone	ND		5.0	1.0	ug/L			01/31/23 13:24	1
Benzene	ND		0.50	0.10	ug/L			01/31/23 13:24	1
Bromochloromethane	ND		0.50	0.080	ug/L			01/31/23 13:24	1
Bromodichloromethane	ND		0.50	0.080	ug/L			01/31/23 13:24	1
Bromoform	ND		1.0	0.30	ug/L			01/31/23 13:24	1
Bromomethane	ND		0.50	0.10	ug/L			01/31/23 13:24	1
Carbon disulfide	ND	^c cn	1.0	0.10	ug/L			01/31/23 13:24	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			01/31/23 13:24	1
Chlorobenzene	ND		0.50	0.070	ug/L			01/31/23 13:24	1
Chloroethane	ND		0.50	0.10	ug/L			01/31/23 13:24	1
Chloroform	ND		0.50	0.090	ug/L			01/31/23 13:24	1
Chloromethane	ND		0.50	0.10	ug/L			01/31/23 13:24	1
cis-1,2-Dichloroethene	**0.14**	**J**	0.50	0.080	ug/L			01/31/23 13:24	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			01/31/23 13:24	1
Dibromochloromethane	ND		0.50	0.080	ug/L			01/31/23 13:24	1
Ethylbenzene	ND		0.50	0.080	ug/L			01/31/23 13:24	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			01/31/23 13:24	1
Methylene Chloride	ND		0.50	0.10	ug/L			01/31/23 13:24	1
Styrene	ND		0.50	0.070	ug/L			01/31/23 13:24	1
Tetrachloroethene	ND		0.50	0.20	ug/L			01/31/23 13:24	1
Toluene	ND		0.50	0.080	ug/L			01/31/23 13:24	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 13:24	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			01/31/23 13:24	1
Trichloroethene	**0.16**	**J**	0.50	0.080	ug/L			01/31/23 13:24	1
Vinyl chloride	ND		0.50	0.10	ug/L			01/31/23 13:24	1
Xylenes, Total	ND		1.0	0.070	ug/L			01/31/23 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*01/31/23 13:24*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*01/31/23 13:24*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*01/31/23 13:24*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*01/31/23 13:24*	*1*

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

Lab Sample ID: 410-113568-3

Date Collected: 01/25/23 08:55

Matrix: Water

Date Received: 01/26/23 18:03

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			01/31/23 13:46	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 13:46	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			01/31/23 13:46	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 13:46	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			01/31/23 13:46	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 13:46	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			01/31/23 13:46	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			01/31/23 13:46	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			01/31/23 13:46	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			01/31/23 13:46	1
2-Hexanone	ND		5.0	0.10	ug/L			01/31/23 13:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			01/31/23 13:46	1
Acetone	**1.6**	**J**	5.0	1.0	ug/L			01/31/23 13:46	1
Benzene	ND		0.50	0.10	ug/L			01/31/23 13:46	1
Bromochloromethane	ND		0.50	0.080	ug/L			01/31/23 13:46	1
Bromodichloromethane	ND		0.50	0.080	ug/L			01/31/23 13:46	1
Bromoform	ND		1.0	0.30	ug/L			01/31/23 13:46	1
Bromomethane	ND		0.50	0.10	ug/L			01/31/23 13:46	1
Carbon disulfide	ND	^c cn	1.0	0.10	ug/L			01/31/23 13:46	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			01/31/23 13:46	1
Chlorobenzene	ND		0.50	0.070	ug/L			01/31/23 13:46	1
Chloroethane	ND		0.50	0.10	ug/L			01/31/23 13:46	1
Chloroform	ND		0.50	0.090	ug/L			01/31/23 13:46	1
Chloromethane	ND		0.50	0.10	ug/L			01/31/23 13:46	1
cis-1,2-Dichloroethene	**0.16**	**J**	0.50	0.080	ug/L			01/31/23 13:46	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			01/31/23 13:46	1
Dibromochloromethane	ND		0.50	0.080	ug/L			01/31/23 13:46	1
Ethylbenzene	ND		0.50	0.080	ug/L			01/31/23 13:46	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			01/31/23 13:46	1
Methylene Chloride	ND		0.50	0.10	ug/L			01/31/23 13:46	1
Styrene	ND		0.50	0.070	ug/L			01/31/23 13:46	1
Tetrachloroethene	**0.46**	**J**	0.50	0.20	ug/L			01/31/23 13:46	1
Toluene	ND		0.50	0.080	ug/L			01/31/23 13:46	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 13:46	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			01/31/23 13:46	1
Trichloroethene	**0.16**	**J**	0.50	0.080	ug/L			01/31/23 13:46	1
Vinyl chloride	ND		0.50	0.10	ug/L			01/31/23 13:46	1
Xylenes, Total	ND		1.0	0.070	ug/L			01/31/23 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*01/31/23 13:46*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*01/31/23 13:46*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*01/31/23 13:46*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*01/31/23 13:46*	*1*

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

Lab Sample ID: 410-113568-4

Date Collected: 01/25/23 12:45

Matrix: Water

Date Received: 01/26/23 18:03

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			01/31/23 14:09	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 14:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			01/31/23 14:09	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 14:09	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			01/31/23 14:09	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 14:09	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			01/31/23 14:09	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			01/31/23 14:09	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			01/31/23 14:09	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			01/31/23 14:09	1
2-Hexanone	ND		5.0	0.10	ug/L			01/31/23 14:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			01/31/23 14:09	1
Acetone	**1.2**	**J**	5.0	1.0	ug/L			01/31/23 14:09	1
Benzene	ND		0.50	0.10	ug/L			01/31/23 14:09	1
Bromochloromethane	ND		0.50	0.080	ug/L			01/31/23 14:09	1
Bromodichloromethane	ND		0.50	0.080	ug/L			01/31/23 14:09	1
Bromoform	ND		1.0	0.30	ug/L			01/31/23 14:09	1
Bromomethane	ND		0.50	0.10	ug/L			01/31/23 14:09	1
Carbon disulfide	ND	^c cn	1.0	0.10	ug/L			01/31/23 14:09	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			01/31/23 14:09	1
Chlorobenzene	ND		0.50	0.070	ug/L			01/31/23 14:09	1
Chloroethane	ND		0.50	0.10	ug/L			01/31/23 14:09	1
Chloroform	ND		0.50	0.090	ug/L			01/31/23 14:09	1
Chloromethane	ND		0.50	0.10	ug/L			01/31/23 14:09	1
cis-1,2-Dichloroethene	**0.14**	**J**	0.50	0.080	ug/L			01/31/23 14:09	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			01/31/23 14:09	1
Dibromochloromethane	ND		0.50	0.080	ug/L			01/31/23 14:09	1
Ethylbenzene	ND		0.50	0.080	ug/L			01/31/23 14:09	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			01/31/23 14:09	1
Methylene Chloride	ND		0.50	0.10	ug/L			01/31/23 14:09	1
Styrene	ND		0.50	0.070	ug/L			01/31/23 14:09	1
Tetrachloroethene	ND		0.50	0.20	ug/L			01/31/23 14:09	1
Toluene	ND		0.50	0.080	ug/L			01/31/23 14:09	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 14:09	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			01/31/23 14:09	1
Trichloroethene	**0.13**	**J**	0.50	0.080	ug/L			01/31/23 14:09	1
Vinyl chloride	ND		0.50	0.10	ug/L			01/31/23 14:09	1
Xylenes, Total	ND		1.0	0.070	ug/L			01/31/23 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*01/31/23 14:09*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*01/31/23 14:09*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*01/31/23 14:09*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*01/31/23 14:09*	*1*

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

Lab Sample ID: 410-113568-5

Date Collected: 01/25/23 09:18

Matrix: Water

Date Received: 01/26/23 18:03

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			01/31/23 14:31	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 14:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			01/31/23 14:31	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 14:31	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			01/31/23 14:31	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 14:31	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			01/31/23 14:31	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			01/31/23 14:31	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			01/31/23 14:31	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			01/31/23 14:31	1
2-Hexanone	ND		5.0	0.10	ug/L			01/31/23 14:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			01/31/23 14:31	1
Acetone	**1.1**	**J**	5.0	1.0	ug/L			01/31/23 14:31	1
Benzene	ND		0.50	0.10	ug/L			01/31/23 14:31	1
Bromochloromethane	ND		0.50	0.080	ug/L			01/31/23 14:31	1
Bromodichloromethane	ND		0.50	0.080	ug/L			01/31/23 14:31	1
Bromoform	ND		1.0	0.30	ug/L			01/31/23 14:31	1
Bromomethane	ND		0.50	0.10	ug/L			01/31/23 14:31	1
Carbon disulfide	ND	^c cn	1.0	0.10	ug/L			01/31/23 14:31	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			01/31/23 14:31	1
Chlorobenzene	ND		0.50	0.070	ug/L			01/31/23 14:31	1
Chloroethane	ND		0.50	0.10	ug/L			01/31/23 14:31	1
Chloroform	ND		0.50	0.090	ug/L			01/31/23 14:31	1
Chloromethane	ND		0.50	0.10	ug/L			01/31/23 14:31	1
cis-1,2-Dichloroethene	**0.15**	**J**	0.50	0.080	ug/L			01/31/23 14:31	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			01/31/23 14:31	1
Dibromochloromethane	ND		0.50	0.080	ug/L			01/31/23 14:31	1
Ethylbenzene	ND		0.50	0.080	ug/L			01/31/23 14:31	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			01/31/23 14:31	1
Methylene Chloride	ND		0.50	0.10	ug/L			01/31/23 14:31	1
Styrene	ND		0.50	0.070	ug/L			01/31/23 14:31	1
Tetrachloroethene	**0.55**		0.50	0.20	ug/L			01/31/23 14:31	1
Toluene	ND		0.50	0.080	ug/L			01/31/23 14:31	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 14:31	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			01/31/23 14:31	1
Trichloroethene	**0.16**	**J**	0.50	0.080	ug/L			01/31/23 14:31	1
Vinyl chloride	ND		0.50	0.10	ug/L			01/31/23 14:31	1
Xylenes, Total	ND		1.0	0.070	ug/L			01/31/23 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*01/31/23 14:31*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*01/31/23 14:31*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*01/31/23 14:31*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*01/31/23 14:31*	*1*

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

Lab Sample ID: 410-113568-6

Date Collected: 01/25/23 11:40

Matrix: Water

Date Received: 01/26/23 18:03

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			01/31/23 14:53	1
1,1,1-Trichloroethane	**0.37**	**J**	0.50	0.080	ug/L			01/31/23 14:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			01/31/23 14:53	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 14:53	1
1,1-Dichloroethane	**0.14**	**J**	0.50	0.10	ug/L			01/31/23 14:53	1
1,1-Dichloroethene	**0.19**	**J**	0.50	0.10	ug/L			01/31/23 14:53	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			01/31/23 14:53	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			01/31/23 14:53	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			01/31/23 14:53	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			01/31/23 14:53	1
2-Hexanone	ND		5.0	0.10	ug/L			01/31/23 14:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			01/31/23 14:53	1
Acetone	**1.1**	**J**	5.0	1.0	ug/L			01/31/23 14:53	1
Benzene	ND		0.50	0.10	ug/L			01/31/23 14:53	1
Bromochloromethane	ND		0.50	0.080	ug/L			01/31/23 14:53	1
Bromodichloromethane	ND		0.50	0.080	ug/L			01/31/23 14:53	1
Bromoform	ND		1.0	0.30	ug/L			01/31/23 14:53	1
Bromomethane	ND		0.50	0.10	ug/L			01/31/23 14:53	1
Carbon disulfide	ND	^c cn	1.0	0.10	ug/L			01/31/23 14:53	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			01/31/23 14:53	1
Chlorobenzene	ND		0.50	0.070	ug/L			01/31/23 14:53	1
Chloroethane	ND		0.50	0.10	ug/L			01/31/23 14:53	1
Chloroform	**0.27**	**J**	0.50	0.090	ug/L			01/31/23 14:53	1
Chloromethane	ND		0.50	0.10	ug/L			01/31/23 14:53	1
cis-1,2-Dichloroethene	**2.3**		0.50	0.080	ug/L			01/31/23 14:53	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			01/31/23 14:53	1
Dibromochloromethane	ND		0.50	0.080	ug/L			01/31/23 14:53	1
Ethylbenzene	ND		0.50	0.080	ug/L			01/31/23 14:53	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			01/31/23 14:53	1
Methylene Chloride	ND		0.50	0.10	ug/L			01/31/23 14:53	1
Styrene	ND		0.50	0.070	ug/L			01/31/23 14:53	1
Tetrachloroethene	**5.5**		0.50	0.20	ug/L			01/31/23 14:53	1
Toluene	ND		0.50	0.080	ug/L			01/31/23 14:53	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 14:53	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			01/31/23 14:53	1
Trichloroethene	**1.8**		0.50	0.080	ug/L			01/31/23 14:53	1
Vinyl chloride	ND		0.50	0.10	ug/L			01/31/23 14:53	1
Xylenes, Total	ND		1.0	0.070	ug/L			01/31/23 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*01/31/23 14:53*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*01/31/23 14:53*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*01/31/23 14:53*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*01/31/23 14:53*	*1*

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

Lab Sample ID: 410-113568-7

Date Collected: 01/25/23 09:33

Matrix: Water

Date Received: 01/26/23 18:03

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			01/31/23 16:00	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 16:00	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			01/31/23 16:00	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 16:00	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			01/31/23 16:00	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 16:00	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			01/31/23 16:00	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			01/31/23 16:00	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			01/31/23 16:00	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			01/31/23 16:00	1
2-Hexanone	ND		5.0	0.10	ug/L			01/31/23 16:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			01/31/23 16:00	1
Acetone	**1.3**	**J**	5.0	1.0	ug/L			01/31/23 16:00	1
Benzene	ND		0.50	0.10	ug/L			01/31/23 16:00	1
Bromochloromethane	ND		0.50	0.080	ug/L			01/31/23 16:00	1
Bromodichloromethane	ND		0.50	0.080	ug/L			01/31/23 16:00	1
Bromoform	ND		1.0	0.30	ug/L			01/31/23 16:00	1
Bromomethane	ND		0.50	0.10	ug/L			01/31/23 16:00	1
Carbon disulfide	ND	^c cn	1.0	0.10	ug/L			01/31/23 16:00	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			01/31/23 16:00	1
Chlorobenzene	ND		0.50	0.070	ug/L			01/31/23 16:00	1
Chloroethane	ND		0.50	0.10	ug/L			01/31/23 16:00	1
Chloroform	ND		0.50	0.090	ug/L			01/31/23 16:00	1
Chloromethane	ND		0.50	0.10	ug/L			01/31/23 16:00	1
cis-1,2-Dichloroethene	**0.15**	**J**	0.50	0.080	ug/L			01/31/23 16:00	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			01/31/23 16:00	1
Dibromochloromethane	ND		0.50	0.080	ug/L			01/31/23 16:00	1
Ethylbenzene	ND		0.50	0.080	ug/L			01/31/23 16:00	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			01/31/23 16:00	1
Methylene Chloride	ND		0.50	0.10	ug/L			01/31/23 16:00	1
Styrene	ND		0.50	0.070	ug/L			01/31/23 16:00	1
Tetrachloroethene	**0.87**		0.50	0.20	ug/L			01/31/23 16:00	1
Toluene	ND		0.50	0.080	ug/L			01/31/23 16:00	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 16:00	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			01/31/23 16:00	1
Trichloroethene	**0.17**	**J**	0.50	0.080	ug/L			01/31/23 16:00	1
Vinyl chloride	ND		0.50	0.10	ug/L			01/31/23 16:00	1
Xylenes, Total	ND		1.0	0.070	ug/L			01/31/23 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*01/31/23 16:00*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*01/31/23 16:00*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*01/31/23 16:00*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*01/31/23 16:00*	*1*

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

Lab Sample ID: 410-113568-8

Date Collected: 01/25/23 09:45

Matrix: Water

Date Received: 01/26/23 18:03

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			01/31/23 16:21	1
1,1,1-Trichloroethane	**5.4**		0.50	0.080	ug/L			01/31/23 16:21	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			01/31/23 16:21	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 16:21	1
1,1-Dichloroethane	**1.0**		0.50	0.10	ug/L			01/31/23 16:21	1
1,1-Dichloroethene	**0.49**	**J**	0.50	0.10	ug/L			01/31/23 16:21	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			01/31/23 16:21	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			01/31/23 16:21	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			01/31/23 16:21	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			01/31/23 16:21	1
2-Hexanone	ND		5.0	0.10	ug/L			01/31/23 16:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			01/31/23 16:21	1
Acetone	ND		5.0	1.0	ug/L			01/31/23 16:21	1
Benzene	ND		0.50	0.10	ug/L			01/31/23 16:21	1
Bromochloromethane	ND		0.50	0.080	ug/L			01/31/23 16:21	1
Bromodichloromethane	ND		0.50	0.080	ug/L			01/31/23 16:21	1
Bromoform	ND		1.0	0.30	ug/L			01/31/23 16:21	1
Bromomethane	ND		0.50	0.10	ug/L			01/31/23 16:21	1
Carbon disulfide	ND	^c cn	1.0	0.10	ug/L			01/31/23 16:21	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			01/31/23 16:21	1
Chlorobenzene	ND		0.50	0.070	ug/L			01/31/23 16:21	1
Chloroethane	ND		0.50	0.10	ug/L			01/31/23 16:21	1
Chloroform	**0.25**	**J**	0.50	0.090	ug/L			01/31/23 16:21	1
Chloromethane	ND		0.50	0.10	ug/L			01/31/23 16:21	1
cis-1,2-Dichloroethene	**3.1**		0.50	0.080	ug/L			01/31/23 16:21	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			01/31/23 16:21	1
Dibromochloromethane	ND		0.50	0.080	ug/L			01/31/23 16:21	1
Ethylbenzene	ND		0.50	0.080	ug/L			01/31/23 16:21	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			01/31/23 16:21	1
Methylene Chloride	ND		0.50	0.10	ug/L			01/31/23 16:21	1
Styrene	ND		0.50	0.070	ug/L			01/31/23 16:21	1
Toluene	ND		0.50	0.080	ug/L			01/31/23 16:21	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 16:21	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			01/31/23 16:21	1
Trichloroethene	**3.6**		0.50	0.080	ug/L			01/31/23 16:21	1
Vinyl chloride	ND		0.50	0.10	ug/L			01/31/23 16:21	1
Xylenes, Total	ND		1.0	0.070	ug/L			01/31/23 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*01/31/23 16:21*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*01/31/23 16:21*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*01/31/23 16:21*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*01/31/23 16:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**60**		5.0	2.0	ug/L			02/02/23 20:27	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*02/02/23 20:27*	*10*

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

Lab Sample ID: 410-113568-8

Date Collected: 01/25/23 09:45

Matrix: Water

Date Received: 01/26/23 18:03

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*02/02/23 20:27*	*10*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*02/02/23 20:27*	*10*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/02/23 20:27*	*10*

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

Lab Sample ID: 410-113568-9

Date Collected: 01/25/23 10:50

Matrix: Water

Date Received: 01/26/23 18:03

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			01/31/23 16:43	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 16:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			01/31/23 16:43	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 16:43	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			01/31/23 16:43	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 16:43	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			01/31/23 16:43	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			01/31/23 16:43	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			01/31/23 16:43	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			01/31/23 16:43	1
2-Hexanone	ND		5.0	0.10	ug/L			01/31/23 16:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			01/31/23 16:43	1
Acetone	ND		5.0	1.0	ug/L			01/31/23 16:43	1
Benzene	ND		0.50	0.10	ug/L			01/31/23 16:43	1
Bromochloromethane	ND		0.50	0.080	ug/L			01/31/23 16:43	1
Bromodichloromethane	ND		0.50	0.080	ug/L			01/31/23 16:43	1
Bromoform	ND		1.0	0.30	ug/L			01/31/23 16:43	1
Bromomethane	ND		0.50	0.10	ug/L			01/31/23 16:43	1
Carbon disulfide	ND	^c cn	1.0	0.10	ug/L			01/31/23 16:43	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			01/31/23 16:43	1
Chlorobenzene	ND		0.50	0.070	ug/L			01/31/23 16:43	1
Chloroethane	ND		0.50	0.10	ug/L			01/31/23 16:43	1
Chloroform	**0.18**	**J**	0.50	0.090	ug/L			01/31/23 16:43	1
Chloromethane	ND		0.50	0.10	ug/L			01/31/23 16:43	1
cis-1,2-Dichloroethene	**0.12**	**J**	0.50	0.080	ug/L			01/31/23 16:43	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			01/31/23 16:43	1
Dibromochloromethane	ND		0.50	0.080	ug/L			01/31/23 16:43	1
Ethylbenzene	ND		0.50	0.080	ug/L			01/31/23 16:43	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			01/31/23 16:43	1
Methylene Chloride	ND		0.50	0.10	ug/L			01/31/23 16:43	1
Styrene	ND		0.50	0.070	ug/L			01/31/23 16:43	1
Tetrachloroethene	**1.1**		0.50	0.20	ug/L			01/31/23 16:43	1
Toluene	ND		0.50	0.080	ug/L			01/31/23 16:43	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 16:43	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			01/31/23 16:43	1
Trichloroethene	**0.15**	**J**	0.50	0.080	ug/L			01/31/23 16:43	1
Vinyl chloride	ND		0.50	0.10	ug/L			01/31/23 16:43	1
Xylenes, Total	ND		1.0	0.070	ug/L			01/31/23 16:43	1

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

Lab Sample ID: 410-113568-9

Date Collected: 01/25/23 10:50

Matrix: Water

Date Received: 01/26/23 18:03

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*01/31/23 16:43*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*01/31/23 16:43*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*01/31/23 16:43*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*01/31/23 16:43*	*1*

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

Lab Sample ID: 410-113568-10

Date Collected: 01/25/23 11:25

Matrix: Water

Date Received: 01/26/23 18:03

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			01/31/23 17:05	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 17:05	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			01/31/23 17:05	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 17:05	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			01/31/23 17:05	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 17:05	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			01/31/23 17:05	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			01/31/23 17:05	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			01/31/23 17:05	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			01/31/23 17:05	1
2-Hexanone	ND		5.0	0.10	ug/L			01/31/23 17:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			01/31/23 17:05	1
Acetone	ND		5.0	1.0	ug/L			01/31/23 17:05	1
Benzene	ND		0.50	0.10	ug/L			01/31/23 17:05	1
Bromochloromethane	ND		0.50	0.080	ug/L			01/31/23 17:05	1
Bromodichloromethane	ND		0.50	0.080	ug/L			01/31/23 17:05	1
Bromoform	ND		1.0	0.30	ug/L			01/31/23 17:05	1
Bromomethane	ND		0.50	0.10	ug/L			01/31/23 17:05	1
Carbon disulfide	ND	^c cn	1.0	0.10	ug/L			01/31/23 17:05	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			01/31/23 17:05	1
Chlorobenzene	ND		0.50	0.070	ug/L			01/31/23 17:05	1
Chloroethane	ND		0.50	0.10	ug/L			01/31/23 17:05	1
Chloroform	ND		0.50	0.090	ug/L			01/31/23 17:05	1
Chloromethane	ND		0.50	0.10	ug/L			01/31/23 17:05	1
cis-1,2-Dichloroethene	**0.14**	**J**	0.50	0.080	ug/L			01/31/23 17:05	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			01/31/23 17:05	1
Dibromochloromethane	ND		0.50	0.080	ug/L			01/31/23 17:05	1
Ethylbenzene	ND		0.50	0.080	ug/L			01/31/23 17:05	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			01/31/23 17:05	1
Methylene Chloride	ND		0.50	0.10	ug/L			01/31/23 17:05	1
Styrene	ND		0.50	0.070	ug/L			01/31/23 17:05	1
Tetrachloroethene	ND		0.50	0.20	ug/L			01/31/23 17:05	1
Toluene	ND		0.50	0.080	ug/L			01/31/23 17:05	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 17:05	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			01/31/23 17:05	1
Trichloroethene	**0.15**	**J**	0.50	0.080	ug/L			01/31/23 17:05	1
Vinyl chloride	ND		0.50	0.10	ug/L			01/31/23 17:05	1
Xylenes, Total	ND		1.0	0.070	ug/L			01/31/23 17:05	1

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

Lab Sample ID: 410-113568-10

Date Collected: 01/25/23 11:25

Matrix: Water

Date Received: 01/26/23 18:03

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*01/31/23 17:05*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*01/31/23 17:05*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*01/31/23 17:05*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*01/31/23 17:05*	*1*

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

Lab Sample ID: 410-113568-11

Date Collected: 01/25/23 12:55

Matrix: Water

Date Received: 01/26/23 18:03

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			01/31/23 17:26	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 17:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			01/31/23 17:26	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 17:26	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			01/31/23 17:26	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 17:26	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			01/31/23 17:26	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			01/31/23 17:26	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			01/31/23 17:26	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			01/31/23 17:26	1
2-Hexanone	ND		5.0	0.10	ug/L			01/31/23 17:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			01/31/23 17:26	1
Acetone	**1.5**	**J**	5.0	1.0	ug/L			01/31/23 17:26	1
Benzene	ND		0.50	0.10	ug/L			01/31/23 17:26	1
Bromochloromethane	ND		0.50	0.080	ug/L			01/31/23 17:26	1
Bromodichloromethane	ND		0.50	0.080	ug/L			01/31/23 17:26	1
Bromoform	ND		1.0	0.30	ug/L			01/31/23 17:26	1
Bromomethane	ND		0.50	0.10	ug/L			01/31/23 17:26	1
Carbon disulfide	ND	^c cn	1.0	0.10	ug/L			01/31/23 17:26	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			01/31/23 17:26	1
Chlorobenzene	ND		0.50	0.070	ug/L			01/31/23 17:26	1
Chloroethane	ND		0.50	0.10	ug/L			01/31/23 17:26	1
Chloroform	ND		0.50	0.090	ug/L			01/31/23 17:26	1
Chloromethane	ND		0.50	0.10	ug/L			01/31/23 17:26	1
cis-1,2-Dichloroethene	**0.14**	**J**	0.50	0.080	ug/L			01/31/23 17:26	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			01/31/23 17:26	1
Dibromochloromethane	ND		0.50	0.080	ug/L			01/31/23 17:26	1
Ethylbenzene	ND		0.50	0.080	ug/L			01/31/23 17:26	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			01/31/23 17:26	1
Methylene Chloride	ND		0.50	0.10	ug/L			01/31/23 17:26	1
Styrene	ND		0.50	0.070	ug/L			01/31/23 17:26	1
Tetrachloroethene	ND		0.50	0.20	ug/L			01/31/23 17:26	1
Toluene	ND		0.50	0.080	ug/L			01/31/23 17:26	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 17:26	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			01/31/23 17:26	1
Trichloroethene	**0.14**	**J**	0.50	0.080	ug/L			01/31/23 17:26	1
Vinyl chloride	ND		0.50	0.10	ug/L			01/31/23 17:26	1
Xylenes, Total	ND		1.0	0.070	ug/L			01/31/23 17:26	1

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

Lab Sample ID: 410-113568-11

Date Collected: 01/25/23 12:55

Matrix: Water

Date Received: 01/26/23 18:03

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*01/31/23 17:26*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*01/31/23 17:26*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*01/31/23 17:26*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*01/31/23 17:26*	*1*

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

Lab Sample ID: 410-113568-12

Date Collected: 01/25/23 08:45

Matrix: Water

Date Received: 01/26/23 18:03

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			01/31/23 17:48	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 17:48	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			01/31/23 17:48	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 17:48	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			01/31/23 17:48	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 17:48	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			01/31/23 17:48	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			01/31/23 17:48	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			01/31/23 17:48	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			01/31/23 17:48	1
2-Hexanone	ND		5.0	0.10	ug/L			01/31/23 17:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			01/31/23 17:48	1
Acetone	ND		5.0	1.0	ug/L			01/31/23 17:48	1
Benzene	ND		0.50	0.10	ug/L			01/31/23 17:48	1
Bromochloromethane	ND		0.50	0.080	ug/L			01/31/23 17:48	1
Bromodichloromethane	ND		0.50	0.080	ug/L			01/31/23 17:48	1
Bromoform	ND		1.0	0.30	ug/L			01/31/23 17:48	1
Bromomethane	ND		0.50	0.10	ug/L			01/31/23 17:48	1
Carbon disulfide	ND	^c cn	1.0	0.10	ug/L			01/31/23 17:48	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			01/31/23 17:48	1
Chlorobenzene	ND		0.50	0.070	ug/L			01/31/23 17:48	1
Chloroethane	ND		0.50	0.10	ug/L			01/31/23 17:48	1
Chloroform	ND		0.50	0.090	ug/L			01/31/23 17:48	1
Chloromethane	ND		0.50	0.10	ug/L			01/31/23 17:48	1
cis-1,2-Dichloroethene	**0.15**	**J**	0.50	0.080	ug/L			01/31/23 17:48	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			01/31/23 17:48	1
Dibromochloromethane	ND		0.50	0.080	ug/L			01/31/23 17:48	1
Ethylbenzene	ND		0.50	0.080	ug/L			01/31/23 17:48	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			01/31/23 17:48	1
Methylene Chloride	ND		0.50	0.10	ug/L			01/31/23 17:48	1
Styrene	ND		0.50	0.070	ug/L			01/31/23 17:48	1
Tetrachloroethene	**0.27**	**J**	0.50	0.20	ug/L			01/31/23 17:48	1
Toluene	ND		0.50	0.080	ug/L			01/31/23 17:48	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 17:48	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			01/31/23 17:48	1
Trichloroethene	**0.15**	**J**	0.50	0.080	ug/L			01/31/23 17:48	1
Vinyl chloride	ND		0.50	0.10	ug/L			01/31/23 17:48	1
Xylenes, Total	ND		1.0	0.070	ug/L			01/31/23 17:48	1

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

Lab Sample ID: 410-113568-12

Date Collected: 01/25/23 08:45

Matrix: Water

Date Received: 01/26/23 18:03

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*01/31/23 17:48*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*01/31/23 17:48*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*01/31/23 17:48*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*01/31/23 17:48*	*1*

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

Lab Sample ID: 410-113568-13

Date Collected: 01/25/23 08:00

Matrix: Water

Date Received: 01/26/23 18:03

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			01/31/23 12:18	1
1,1,1-Trichloroethane	**5.4**		0.50	0.080	ug/L			01/31/23 12:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			01/31/23 12:18	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 12:18	1
1,1-Dichloroethane	**1.0**		0.50	0.10	ug/L			01/31/23 12:18	1
1,1-Dichloroethene	**0.47**	**J**	0.50	0.10	ug/L			01/31/23 12:18	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			01/31/23 12:18	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			01/31/23 12:18	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			01/31/23 12:18	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			01/31/23 12:18	1
2-Hexanone	ND		5.0	0.10	ug/L			01/31/23 12:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			01/31/23 12:18	1
Acetone	ND		5.0	1.0	ug/L			01/31/23 12:18	1
Benzene	ND		0.50	0.10	ug/L			01/31/23 12:18	1
Bromochloromethane	ND		0.50	0.080	ug/L			01/31/23 12:18	1
Bromodichloromethane	ND		0.50	0.080	ug/L			01/31/23 12:18	1
Bromoform	ND		1.0	0.30	ug/L			01/31/23 12:18	1
Bromomethane	ND		0.50	0.10	ug/L			01/31/23 12:18	1
Carbon disulfide	ND	^c cn	1.0	0.10	ug/L			01/31/23 12:18	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			01/31/23 12:18	1
Chlorobenzene	ND		0.50	0.070	ug/L			01/31/23 12:18	1
Chloroethane	ND		0.50	0.10	ug/L			01/31/23 12:18	1
Chloroform	**0.25**	**J**	0.50	0.090	ug/L			01/31/23 12:18	1
Chloromethane	ND		0.50	0.10	ug/L			01/31/23 12:18	1
cis-1,2-Dichloroethene	**3.1**		0.50	0.080	ug/L			01/31/23 12:18	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			01/31/23 12:18	1
Dibromochloromethane	ND		0.50	0.080	ug/L			01/31/23 12:18	1
Ethylbenzene	ND		0.50	0.080	ug/L			01/31/23 12:18	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			01/31/23 12:18	1
Methylene Chloride	ND		0.50	0.10	ug/L			01/31/23 12:18	1
Styrene	ND		0.50	0.070	ug/L			01/31/23 12:18	1
Toluene	ND		0.50	0.080	ug/L			01/31/23 12:18	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 12:18	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			01/31/23 12:18	1
Trichloroethene	**3.6**		0.50	0.080	ug/L			01/31/23 12:18	1
Vinyl chloride	ND		0.50	0.10	ug/L			01/31/23 12:18	1
Xylenes, Total	ND		1.0	0.070	ug/L			01/31/23 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*01/31/23 12:18*	*1*

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

Lab Sample ID: 410-113568-13

Date Collected: 01/25/23 08:00

Matrix: Water

Date Received: 01/26/23 18:03

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*01/31/23 12:18*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*01/31/23 12:18*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*01/31/23 12:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**65**		5.0	2.0	ug/L			02/02/23 20:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*02/02/23 20:49*	*10*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*02/02/23 20:49*	*10*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*02/02/23 20:49*	*10*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/02/23 20:49*	*10*

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

Lab Sample ID: 410-113568-14

Date Collected: 01/25/23 00:00

Matrix: Water

Date Received: 01/26/23 18:03

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			01/31/23 12:40	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 12:40	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			01/31/23 12:40	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 12:40	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			01/31/23 12:40	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 12:40	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			01/31/23 12:40	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			01/31/23 12:40	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			01/31/23 12:40	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			01/31/23 12:40	1
2-Hexanone	ND		5.0	0.10	ug/L			01/31/23 12:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			01/31/23 12:40	1
Acetone	**1.6**	**J**	5.0	1.0	ug/L			01/31/23 12:40	1
Benzene	ND		0.50	0.10	ug/L			01/31/23 12:40	1
Bromochloromethane	ND		0.50	0.080	ug/L			01/31/23 12:40	1
Bromodichloromethane	ND		0.50	0.080	ug/L			01/31/23 12:40	1
Bromoform	ND		1.0	0.30	ug/L			01/31/23 12:40	1
Bromomethane	ND		0.50	0.10	ug/L			01/31/23 12:40	1
Carbon disulfide	ND	^c cn	1.0	0.10	ug/L			01/31/23 12:40	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			01/31/23 12:40	1
Chlorobenzene	ND		0.50	0.070	ug/L			01/31/23 12:40	1
Chloroethane	ND		0.50	0.10	ug/L			01/31/23 12:40	1
Chloroform	ND		0.50	0.090	ug/L			01/31/23 12:40	1
Chloromethane	ND		0.50	0.10	ug/L			01/31/23 12:40	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			01/31/23 12:40	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			01/31/23 12:40	1
Dibromochloromethane	ND		0.50	0.080	ug/L			01/31/23 12:40	1
Ethylbenzene	ND		0.50	0.080	ug/L			01/31/23 12:40	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			01/31/23 12:40	1
Methylene Chloride	ND		0.50	0.10	ug/L			01/31/23 12:40	1

Client: Groundwater Sciences Corporation
Job ID: 410-113568-1
Project/Site: fYNOP Monthly Surface water

Client Sample ID: HD-QC1-0/1-2
Lab Sample ID: 410-113568-14
Date Collected: 01/25/23 00:00
Matrix: Water
Date Received: 01/26/23 18:03

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			01/31/23 12:40	1
Tetrachloroethene	ND		0.50	0.20	ug/L			01/31/23 12:40	1
Toluene	ND		0.50	0.080	ug/L			01/31/23 12:40	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 12:40	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			01/31/23 12:40	1
Trichloroethene	ND		0.50	0.080	ug/L			01/31/23 12:40	1
Vinyl chloride	ND		0.50	0.10	ug/L			01/31/23 12:40	1
Xylenes, Total	ND		1.0	0.070	ug/L			01/31/23 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*01/31/23 12:40*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*01/31/23 12:40*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*01/31/23 12:40*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*01/31/23 12:40*	*1*

Default Detection Limits

Client: Groundwater Sciences Corporation
Job ID: 410-113568-1
Project/Site: fYNOP Monthly Surface water

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: 410-113568-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-113568-1	HD-COD-SW-6-0/1-0	106	98	103	99
410-113568-2	HD-COD-SW-7-0/1-0	104	98	103	100
410-113568-3	HD-COD-SW-8-0/1-0	106	98	104	99
410-113568-4	HD-COD-SW-9-0/1-0	105	98	103	99
410-113568-5	HD-COD-SW-13-0/1-0	106	98	103	99
410-113568-6	HD-COD-SW-15-0/1-0	103	97	104	98
410-113568-6 MS	HD-COD-SW-15-0/1-0 MS	101	100	102	100
410-113568-6 MSD	HD-COD-SW-15-0/1-0 MSD	103	102	103	100
410-113568-7	HD-COD-SW-16-0/1-0	105	98	102	99
410-113568-8	HD-COD-SW-17-0/1-0	105	97	103	96
410-113568-8 - DL	HD-COD-SW-17-0/1-0	101	100	102	98
410-113568-9	HD-COD-SW-26-0/1-0	104	98	103	99
410-113568-10	HD-COD-SW-27-0/1-0	105	98	103	99
410-113568-11	HD-COD-SW-28-0/1-0	106	97	103	99
410-113568-12	HD-COD-SW-29-0/1-0	102	99	103	99
410-113568-13	HD-QC1-0/1-1	104	97	102	97
410-113568-13 - DL	HD-QC1-0/1-1	101	100	100	98
410-113568-14	HD-QC1-0/1-2	110	99	103	99
LCS 410-340101/4	Lab Control Sample	101	101	102	101
LCS 410-340956/5	Lab Control Sample	103	100	102	100
MB 410-340101/6	Method Blank	105	99	101	99
MB 410-340956/8	Method Blank	105	99	102	98

Surrogate Legend

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

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

Lab Sample ID: MB 410-340101/6
Matrix: Water
Analysis Batch: 340101

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			01/31/23 11:56	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 11:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			01/31/23 11:56	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			01/31/23 11:56	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			01/31/23 11:56	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 11:56	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			01/31/23 11:56	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			01/31/23 11:56	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			01/31/23 11:56	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			01/31/23 11:56	1
2-Hexanone	ND		5.0	0.10	ug/L			01/31/23 11:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			01/31/23 11:56	1
Acetone	ND		5.0	1.0	ug/L			01/31/23 11:56	1
Benzene	ND		0.50	0.10	ug/L			01/31/23 11:56	1
Bromochloromethane	ND		0.50	0.080	ug/L			01/31/23 11:56	1
Bromodichloromethane	ND		0.50	0.080	ug/L			01/31/23 11:56	1
Bromoform	ND		1.0	0.30	ug/L			01/31/23 11:56	1
Bromomethane	ND		0.50	0.10	ug/L			01/31/23 11:56	1
Carbon disulfide	ND		1.0	0.10	ug/L			01/31/23 11:56	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			01/31/23 11:56	1
Chlorobenzene	ND		0.50	0.070	ug/L			01/31/23 11:56	1
Chloroethane	ND		0.50	0.10	ug/L			01/31/23 11:56	1
Chloroform	ND		0.50	0.090	ug/L			01/31/23 11:56	1
Chloromethane	ND		0.50	0.10	ug/L			01/31/23 11:56	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			01/31/23 11:56	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			01/31/23 11:56	1
Dibromochloromethane	ND		0.50	0.080	ug/L			01/31/23 11:56	1
Ethylbenzene	ND		0.50	0.080	ug/L			01/31/23 11:56	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			01/31/23 11:56	1
Methylene Chloride	ND		0.50	0.10	ug/L			01/31/23 11:56	1
Styrene	ND		0.50	0.070	ug/L			01/31/23 11:56	1
Tetrachloroethene	ND		0.50	0.20	ug/L			01/31/23 11:56	1
Toluene	ND		0.50	0.080	ug/L			01/31/23 11:56	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			01/31/23 11:56	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			01/31/23 11:56	1
Trichloroethene	ND		0.50	0.080	ug/L			01/31/23 11:56	1
Vinyl chloride	ND		0.50	0.10	ug/L			01/31/23 11:56	1
Xylenes, Total	ND		1.0	0.070	ug/L			01/31/23 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*01/31/23 11:56*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*01/31/23 11:56*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*01/31/23 11:56*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*01/31/23 11:56*	*1*

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

Lab Sample ID: LCS 410-340101/4
Matrix: Water
Analysis Batch: 340101

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	4.91		ug/L		98	71 - 134
1,1,1-Trichloroethane	5.00	4.79		ug/L		96	78 - 126
1,1,2,2-Tetrachloroethane	5.00	4.83		ug/L		97	75 - 123
1,1,2-Trichloroethane	5.00	4.67		ug/L		93	80 - 120
1,1-Dichloroethane	5.00	4.63		ug/L		93	74 - 120
1,1-Dichloroethene	5.00	4.61		ug/L		92	80 - 131
1,2-Dibromoethane (EDB)	5.00	4.84		ug/L		97	80 - 120
1,2-Dichloroethane	5.00	4.56		ug/L		91	69 - 122
1,2-Dichloropropane	5.00	4.79		ug/L		96	80 - 120
2-Butanone (MEK)	62.5	60.4		ug/L		97	59 - 141
2-Hexanone	62.5	57.8		ug/L		92	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	57.7		ug/L		92	55 - 140
Acetone	62.5	60.0		ug/L		96	60 - 146
Benzene	5.00	4.77		ug/L		95	80 - 120
Bromochloromethane	5.00	4.92		ug/L		98	80 - 120
Bromodichloromethane	5.00	4.83		ug/L		97	73 - 124
Bromoform	5.00	4.78		ug/L		96	49 - 144
Bromomethane	5.00	4.28		ug/L		86	60 - 136
Carbon disulfide	5.00	5.16		ug/L		103	67 - 130
Carbon tetrachloride	5.00	4.72		ug/L		94	64 - 141
Chlorobenzene	5.00	4.60		ug/L		92	80 - 120
Chloroethane	5.00	4.31		ug/L		86	63 - 120
Chloroform	5.00	4.73		ug/L		95	80 - 120
Chloromethane	5.00	4.14		ug/L		83	56 - 124
cis-1,2-Dichloroethene	5.00	4.74		ug/L		95	80 - 122
cis-1,3-Dichloropropene	5.00	4.75		ug/L		95	67 - 121
Dibromochloromethane	5.00	4.85		ug/L		97	64 - 138
Ethylbenzene	5.00	4.81		ug/L		96	80 - 120
Methyl tert-butyl ether	5.00	5.04		ug/L		101	69 - 120
Methylene Chloride	5.00	4.71		ug/L		94	80 - 120
Styrene	5.00	5.03		ug/L		101	80 - 120
Tetrachloroethene	5.00	4.64		ug/L		93	80 - 120
Toluene	5.00	4.71		ug/L		94	80 - 120
trans-1,2-Dichloroethene	5.00	4.57		ug/L		91	80 - 122
trans-1,3-Dichloropropene	5.00	4.85		ug/L		97	61 - 129
Trichloroethene	5.00	4.58		ug/L		92	80 - 120
Vinyl chloride	5.00	4.17		ug/L		83	60 - 125
Xylenes, Total	15.0	14.6		ug/L		97	80 - 120

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

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

Lab Sample ID: 410-113568-6 MS
Matrix: Water
Analysis Batch: 340101

Client Sample ID: HD-COD-SW-15-0/1-0 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		5.00	5.30		ug/L		106	71 - 134
1,1,1-Trichloroethane	0.37	J	5.00	5.81		ug/L		109	78 - 126
1,1,2,2-Tetrachloroethane	ND		5.00	5.17		ug/L		103	75 - 123
1,1,2-Trichloroethane	ND		5.00	5.07		ug/L		101	80 - 120
1,1-Dichloroethane	0.14	J	5.00	5.33		ug/L		104	74 - 120
1,1-Dichloroethene	0.19	J	5.00	5.44		ug/L		105	80 - 131
1,2-Dibromoethane (EDB)	ND		5.00	5.21		ug/L		104	80 - 120
1,2-Dichloroethane	ND		5.00	5.26		ug/L		105	69 - 122
1,2-Dichloropropane	ND		5.00	5.31		ug/L		106	80 - 120
2-Butanone (MEK)	ND		62.6	61.8		ug/L		99	59 - 141
2-Hexanone	ND		62.6	60.2		ug/L		96	52 - 140
4-Methyl-2-pentanone (MIBK)	ND		62.6	59.4		ug/L		95	55 - 140
Acetone	1.1	J	62.6	64.3		ug/L		101	60 - 146
Benzene	ND		5.00	5.32		ug/L		106	80 - 120
Bromochloromethane	ND		5.00	5.35		ug/L		107	80 - 120
Bromodichloromethane	ND		5.00	5.31		ug/L		106	73 - 124
Bromoform	ND		5.00	4.87		ug/L		97	49 - 144
Bromomethane	ND		5.00	4.72		ug/L		94	60 - 136
Carbon disulfide	ND	^c cn	5.00	5.87		ug/L		117	67 - 130
Carbon tetrachloride	ND		5.00	5.49		ug/L		110	64 - 141
Chlorobenzene	ND		5.00	5.04		ug/L		101	80 - 120
Chloroethane	ND		5.00	4.81		ug/L		96	63 - 120
Chloroform	0.27	J	5.00	5.54		ug/L		105	80 - 120
Chloromethane	ND		5.00	4.57		ug/L		91	80 - 120
cis-1,2-Dichloroethene	2.3		5.00	7.62		ug/L		107	80 - 122
cis-1,3-Dichloropropene	ND		5.00	5.11		ug/L		102	67 - 121
Dibromochloromethane	ND		5.00	5.07		ug/L		101	64 - 138
Ethylbenzene	ND		5.00	5.34		ug/L		107	80 - 120
Methyl tert-butyl ether	ND		5.00	5.38		ug/L		107	69 - 120
Methylene Chloride	ND		5.00	5.19		ug/L		104	80 - 120
Styrene	ND		5.00	5.50		ug/L		110	80 - 120
Tetrachloroethene	5.5		5.00	10.7		ug/L		104	80 - 120
Toluene	ND		5.00	5.18		ug/L		104	80 - 120
trans-1,2-Dichloroethene	ND		5.00	5.22		ug/L		104	80 - 122
trans-1,3-Dichloropropene	ND		5.00	5.01		ug/L		100	61 - 129
Trichloroethene	1.8		5.00	7.04		ug/L		105	80 - 120
Vinyl chloride	ND		5.00	4.76		ug/L		95	60 - 125
Xylenes, Total	ND		15.0	16.1		ug/L		107	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

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

Lab Sample ID: 410-113568-6 MSD
Matrix: Water
Analysis Batch: 340101

Client Sample ID: HD-COD-SW-15-0/1-0 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		5.00	5.21		ug/L		104	71 - 134	2	30
1,1,1-Trichloroethane	0.37	J	5.00	5.78		ug/L		108	78 - 126	1	30
1,1,2,2-Tetrachloroethane	ND		5.00	5.20		ug/L		104	75 - 123	1	30
1,1,2-Trichloroethane	ND		5.00	5.03		ug/L		100	80 - 120	1	30
1,1-Dichloroethane	0.14	J	5.00	5.28		ug/L		103	74 - 120	1	30
1,1-Dichloroethene	0.19	J	5.00	5.41		ug/L		104	80 - 131	0	30
1,2-Dibromoethane (EDB)	ND		5.00	5.18		ug/L		104	80 - 120	0	30
1,2-Dichloroethane	ND		5.00	4.98		ug/L		100	69 - 122	5	30
1,2-Dichloropropane	ND		5.00	5.30		ug/L		106	80 - 120	0	30
2-Butanone (MEK)	ND		62.6	58.1		ug/L		93	59 - 141	6	30
2-Hexanone	ND		62.6	55.7		ug/L		89	52 - 140	8	30
4-Methyl-2-pentanone (MIBK)	ND		62.6	55.5		ug/L		89	55 - 140	7	30
Acetone	1.1	J	62.6	59.5		ug/L		93	60 - 146	8	30
Benzene	ND		5.00	5.30		ug/L		106	80 - 120	0	30
Bromochloromethane	ND		5.00	5.34		ug/L		107	80 - 120	0	30
Bromodichloromethane	ND		5.00	5.26		ug/L		105	73 - 124	1	30
Bromoform	ND		5.00	4.81		ug/L		96	49 - 144	1	30
Bromomethane	ND		5.00	4.84		ug/L		97	60 - 136	3	30
Carbon disulfide	ND	^c cn	5.00	5.77		ug/L		115	67 - 130	2	30
Carbon tetrachloride	ND		5.00	5.48		ug/L		110	64 - 141	0	30
Chlorobenzene	ND		5.00	5.04		ug/L		101	80 - 120	0	30
Chloroethane	ND		5.00	5.05		ug/L		101	63 - 120	5	30
Chloroform	0.27	J	5.00	5.48		ug/L		104	80 - 120	1	30
Chloromethane	ND		5.00	4.85		ug/L		97	80 - 120	6	30
cis-1,2-Dichloroethene	2.3		5.00	7.63		ug/L		107	80 - 122	0	30
cis-1,3-Dichloropropene	ND		5.00	5.13		ug/L		102	67 - 121	0	30
Dibromochloromethane	ND		5.00	5.07		ug/L		101	64 - 138	0	30
Ethylbenzene	ND		5.00	5.28		ug/L		105	80 - 120	1	30
Methyl tert-butyl ether	ND		5.00	5.37		ug/L		107	69 - 120	0	30
Methylene Chloride	ND		5.00	5.13		ug/L		103	80 - 120	1	30
Styrene	ND		5.00	5.48		ug/L		109	80 - 120	0	30
Tetrachloroethene	5.5		5.00	10.8		ug/L		105	80 - 120	1	30
Toluene	ND		5.00	5.21		ug/L		104	80 - 120	1	30
trans-1,2-Dichloroethene	ND		5.00	5.16		ug/L		103	80 - 122	1	30
trans-1,3-Dichloropropene	ND		5.00	5.07		ug/L		101	61 - 129	1	30
Trichloroethene	1.8		5.00	7.00		ug/L		104	80 - 120	1	30
Vinyl chloride	ND		5.00	4.89		ug/L		98	60 - 125	3	30
Xylenes, Total	ND		15.0	16.1		ug/L		107	80 - 120	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

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

Lab Sample ID: MB 410-340956/8
Matrix: Water
Analysis Batch: 340956

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			02/02/23 12:44	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/02/23 12:44	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			02/02/23 12:44	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/02/23 12:44	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/02/23 12:44	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/02/23 12:44	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/02/23 12:44	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/02/23 12:44	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/02/23 12:44	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/02/23 12:44	1
2-Hexanone	ND		5.0	0.10	ug/L			02/02/23 12:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/02/23 12:44	1
Acetone	ND		5.0	1.0	ug/L			02/02/23 12:44	1
Benzene	ND		0.50	0.10	ug/L			02/02/23 12:44	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/02/23 12:44	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/02/23 12:44	1
Bromoform	ND		1.0	0.30	ug/L			02/02/23 12:44	1
Bromomethane	ND		0.50	0.10	ug/L			02/02/23 12:44	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/02/23 12:44	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/02/23 12:44	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/02/23 12:44	1
Chloroethane	ND		0.50	0.10	ug/L			02/02/23 12:44	1
Chloroform	ND		0.50	0.090	ug/L			02/02/23 12:44	1
Chloromethane	ND		0.50	0.10	ug/L			02/02/23 12:44	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/02/23 12:44	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/02/23 12:44	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/02/23 12:44	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/02/23 12:44	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/02/23 12:44	1
Methylene Chloride	ND		0.50	0.10	ug/L			02/02/23 12:44	1
Styrene	ND		0.50	0.070	ug/L			02/02/23 12:44	1
Tetrachloroethene	ND		0.50	0.20	ug/L			02/02/23 12:44	1
Toluene	ND		0.50	0.080	ug/L			02/02/23 12:44	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/02/23 12:44	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/02/23 12:44	1
Trichloroethene	ND		0.50	0.080	ug/L			02/02/23 12:44	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/02/23 12:44	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/02/23 12:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*02/02/23 12:44*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*02/02/23 12:44*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*02/02/23 12:44*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*02/02/23 12:44*	*1*

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

Lab Sample ID: LCS 410-340956/5
Matrix: Water
Analysis Batch: 340956

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	4.94		ug/L		99	71 - 134
1,1,1-Trichloroethane	5.00	4.76		ug/L		95	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.11		ug/L		102	75 - 123
1,1,2-Trichloroethane	5.00	4.89		ug/L		98	80 - 120
1,1-Dichloroethane	5.00	4.75		ug/L		95	74 - 120
1,1-Dichloroethene	5.00	4.47		ug/L		89	80 - 131
1,2-Dibromoethane (EDB)	5.00	4.94		ug/L		99	80 - 120
1,2-Dichloroethane	5.00	4.78		ug/L		96	69 - 122
1,2-Dichloropropane	5.00	4.97		ug/L		99	80 - 120
2-Butanone (MEK)	62.5	63.6		ug/L		102	59 - 141
2-Hexanone	62.5	62.2		ug/L		99	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	60.1		ug/L		96	55 - 140
Acetone	62.5	64.3		ug/L		103	60 - 146
Benzene	5.00	4.82		ug/L		96	80 - 120
Bromochloromethane	5.00	5.03		ug/L		101	80 - 120
Bromodichloromethane	5.00	5.01		ug/L		100	73 - 124
Bromoform	5.00	4.72		ug/L		94	49 - 144
Bromomethane	5.00	4.30		ug/L		86	60 - 136
Carbon disulfide	5.00	5.09		ug/L		102	67 - 130
Carbon tetrachloride	5.00	4.76		ug/L		95	64 - 141
Chlorobenzene	5.00	4.65		ug/L		93	80 - 120
Chloroethane	5.00	4.29		ug/L		86	63 - 120
Chloroform	5.00	4.83		ug/L		97	80 - 120
Chloromethane	5.00	4.14		ug/L		83	56 - 124
cis-1,2-Dichloroethene	5.00	4.85		ug/L		97	80 - 122
cis-1,3-Dichloropropene	5.00	4.81		ug/L		96	67 - 121
Dibromochloromethane	5.00	4.88		ug/L		98	64 - 138
Ethylbenzene	5.00	4.81		ug/L		96	80 - 120
Methyl tert-butyl ether	5.00	5.09		ug/L		102	69 - 120
Methylene Chloride	5.00	4.76		ug/L		95	80 - 120
Styrene	5.00	5.14		ug/L		103	80 - 120
Tetrachloroethene	5.00	4.58		ug/L		92	80 - 120
Toluene	5.00	4.69		ug/L		94	80 - 120
trans-1,2-Dichloroethene	5.00	4.61		ug/L		92	80 - 122
trans-1,3-Dichloropropene	5.00	4.90		ug/L		98	61 - 129
Trichloroethene	5.00	4.66		ug/L		93	80 - 120
Vinyl chloride	5.00	4.07		ug/L		81	60 - 125
Xylenes, Total	15.0	14.8		ug/L		98	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

GC/MS VOA

Analysis Batch: 340101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-113568-1	HD-COD-SW-6-0/1-0	Total/NA	Water	8260D	
410-113568-2	HD-COD-SW-7-0/1-0	Total/NA	Water	8260D	
410-113568-3	HD-COD-SW-8-0/1-0	Total/NA	Water	8260D	
410-113568-4	HD-COD-SW-9-0/1-0	Total/NA	Water	8260D	
410-113568-5	HD-COD-SW-13-0/1-0	Total/NA	Water	8260D	
410-113568-6	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	
410-113568-7	HD-COD-SW-16-0/1-0	Total/NA	Water	8260D	
410-113568-8	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-113568-9	HD-COD-SW-26-0/1-0	Total/NA	Water	8260D	
410-113568-10	HD-COD-SW-27-0/1-0	Total/NA	Water	8260D	
410-113568-11	HD-COD-SW-28-0/1-0	Total/NA	Water	8260D	
410-113568-12	HD-COD-SW-29-0/1-0	Total/NA	Water	8260D	
410-113568-13	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-113568-14	HD-QC1-0/1-2	Total/NA	Water	8260D	
MB 410-340101/6	Method Blank	Total/NA	Water	8260D	
LCS 410-340101/4	Lab Control Sample	Total/NA	Water	8260D	
410-113568-6 MS	HD-COD-SW-15-0/1-0 MS	Total/NA	Water	8260D	
410-113568-6 MSD	HD-COD-SW-15-0/1-0 MSD	Total/NA	Water	8260D	

Analysis Batch: 340956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-113568-8 - DL	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-113568-13 - DL	HD-QC1-0/1-1	Total/NA	Water	8260D	
MB 410-340956/8	Method Blank	Total/NA	Water	8260D	
LCS 410-340956/5	Lab Control Sample	Total/NA	Water	8260D	

Client Sample ID: HD-COD-SW-6-0/1-0
Lab Sample ID: 410-113568-1

Date Collected: 01/25/23 10:05
Matrix: Water
Date Received: 01/26/23 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	340101	DVW2	ELLE	01/31/23 13:02

Client Sample ID: HD-COD-SW-7-0/1-0
Lab Sample ID: 410-113568-2

Date Collected: 01/25/23 11:12
Matrix: Water
Date Received: 01/26/23 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	340101	DVW2	ELLE	01/31/23 13:24

Client Sample ID: HD-COD-SW-8-0/1-0
Lab Sample ID: 410-113568-3

Date Collected: 01/25/23 08:55
Matrix: Water
Date Received: 01/26/23 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	340101	DVW2	ELLE	01/31/23 13:46

Client Sample ID: HD-COD-SW-9-0/1-0
Lab Sample ID: 410-113568-4

Date Collected: 01/25/23 12:45
Matrix: Water
Date Received: 01/26/23 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	340101	DVW2	ELLE	01/31/23 14:09

Client Sample ID: HD-COD-SW-13-0/1-0
Lab Sample ID: 410-113568-5

Date Collected: 01/25/23 09:18
Matrix: Water
Date Received: 01/26/23 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	340101	DVW2	ELLE	01/31/23 14:31

Client Sample ID: HD-COD-SW-15-0/1-0
Lab Sample ID: 410-113568-6

Date Collected: 01/25/23 11:40
Matrix: Water
Date Received: 01/26/23 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	340101	DVW2	ELLE	01/31/23 14:53

Client Sample ID: HD-COD-SW-16-0/1-0
Lab Sample ID: 410-113568-7

Date Collected: 01/25/23 09:33
Matrix: Water
Date Received: 01/26/23 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	340101	DVW2	ELLE	01/31/23 16:00

Client Sample ID: HD-COD-SW-17-0/1-0
Lab Sample ID: 410-113568-8

Date Collected: 01/25/23 09:45
Matrix: Water
Date Received: 01/26/23 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	340101	DVW2	ELLE	01/31/23 16:21
Total/NA	Analysis	8260D	DL	10	340956	DVW2	ELLE	02/02/23 20:27

Client Sample ID: HD-COD-SW-26-0/1-0
Lab Sample ID: 410-113568-9

Date Collected: 01/25/23 10:50
Matrix: Water
Date Received: 01/26/23 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	340101	DVW2	ELLE	01/31/23 16:43

Client Sample ID: HD-COD-SW-27-0/1-0
Lab Sample ID: 410-113568-10

Date Collected: 01/25/23 11:25
Matrix: Water
Date Received: 01/26/23 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	340101	DVW2	ELLE	01/31/23 17:05

Client Sample ID: HD-COD-SW-28-0/1-0
Lab Sample ID: 410-113568-11

Date Collected: 01/25/23 12:55
Matrix: Water
Date Received: 01/26/23 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	340101	DVW2	ELLE	01/31/23 17:26

Client Sample ID: HD-COD-SW-29-0/1-0
Lab Sample ID: 410-113568-12

Date Collected: 01/25/23 08:45
Matrix: Water
Date Received: 01/26/23 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	340101	DVW2	ELLE	01/31/23 17:48

Client Sample ID: HD-QC1-0/1-1
Lab Sample ID: 410-113568-13

Date Collected: 01/25/23 08:00
Matrix: Water
Date Received: 01/26/23 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	340101	DVW2	ELLE	01/31/23 12:18
Total/NA	Analysis	8260D	DL	10	340956	DVW2	ELLE	02/02/23 20:49

Client Sample ID: HD-QC1-0/1-2
Lab Sample ID: 410-113568-14

Date Collected: 01/25/23 00:00
Matrix: Water
Date Received: 01/26/23 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	340101	DVW2	ELLE	01/31/23 12:40

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
Job ID: 410-113568-1
Project/Site: fYNOP Monthly Surface water

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
Job ID: 410-113568-1
Project/Site: fYNOP Monthly Surface water

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
Job ID: 410-113568-1
Project/Site: fYNOP Monthly Surface water

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-113568-1	HD-COD-SW-6-0/1-0	Water	01/25/23 10:05	01/26/23 18:03
410-113568-2	HD-COD-SW-7-0/1-0	Water	01/25/23 11:12	01/26/23 18:03
410-113568-3	HD-COD-SW-8-0/1-0	Water	01/25/23 08:55	01/26/23 18:03
410-113568-4	HD-COD-SW-9-0/1-0	Water	01/25/23 12:45	01/26/23 18:03
410-113568-5	HD-COD-SW-13-0/1-0	Water	01/25/23 09:18	01/26/23 18:03
410-113568-6	HD-COD-SW-15-0/1-0	Water	01/25/23 11:40	01/26/23 18:03
410-113568-7	HD-COD-SW-16-0/1-0	Water	01/25/23 09:33	01/26/23 18:03
410-113568-8	HD-COD-SW-17-0/1-0	Water	01/25/23 09:45	01/26/23 18:03
410-113568-9	HD-COD-SW-26-0/1-0	Water	01/25/23 10:50	01/26/23 18:03
410-113568-10	HD-COD-SW-27-0/1-0	Water	01/25/23 11:25	01/26/23 18:03
410-113568-11	HD-COD-SW-28-0/1-0	Water	01/25/23 12:55	01/26/23 18:03
410-113568-12	HD-COD-SW-29-0/1-0	Water	01/25/23 08:45	01/26/23 18:03
410-113568-13	HD-QC1-0/1-1	Water	01/25/23 08:00	01/26/23 18:03
410-113568-14	HD-QC1-0/1-2	Water	01/25/23 00:00	01/26/23 18:03

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-113568-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 336478

Lab Sample ID: IC 410-336478/3 Client Sample ID:

Date Analyzed: 01/18/23 10:40 Lab File ID: JD18X02.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.21	Incomplete Integration	DVW2	01/18/23 11:07
Ethyl ether	3.14	Incomplete Integration	DVW2	01/18/23 11:07
Freon 123a	3.20	Incomplete Integration	DVW2	01/18/23 11:07
Methyl acetate	3.86	Incomplete Integration	DVW2	01/18/23 11:07
t-Butyl alcohol-d10 (IS)	4.06	Incomplete Integration	DVW2	01/18/23 11:07
t-Butyl alcohol	4.20	Incomplete Integration	DVW2	01/18/23 11:07
Propionitrile	6.06	Incomplete Integration	DVW2	01/18/23 11:08
Isobutyl alcohol	7.06	Incomplete Integration	DVW2	01/18/23 11:08
Methyl methacrylate	8.48	Incomplete Integration	DVW2	01/18/23 11:08
2-Nitropropane	9.01	Incomplete Integration	DVW2	01/18/23 11:08

Lab Sample ID: IC 410-336478/4 Client Sample ID:

Date Analyzed: 01/18/23 11:02 Lab File ID: JD18X03.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.47	Incomplete Integration	DVW2	01/18/23 11:28
Methyl acetate	3.87	Incomplete Integration	DVW2	01/18/23 11:29
t-Butyl alcohol-d10 (IS)	4.10	Incomplete Integration	DVW2	01/18/23 11:29
t-Butyl alcohol	4.21	Incomplete Integration	DVW2	01/18/23 11:29
trans-1,2-Dichloroethene	4.47	Incomplete Integration	DVW2	01/18/23 11:29
2-Chloro-1,3-butadiene	5.26	Incomplete Integration	DVW2	01/18/23 11:29
Propionitrile	6.03	Incomplete Integration	DVW2	01/18/23 11:30
Isobutyl alcohol	7.07	Incomplete Integration	DVW2	01/18/23 11:30
1,4-Dioxane	8.47	Incomplete Integration	DVW2	01/18/23 11:30

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-113568-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 336478

Lab Sample ID: IC 410-336478/5 Client Sample ID:

Date Analyzed: 01/18/23 11:24 Lab File ID: JD18X04.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.90	Incomplete Integration	DVW2	01/18/23 11:48
1,3-Butadiene	2.22	Incomplete Integration	DVW2	01/18/23 11:49
Ethyl ether	3.14	Incomplete Integration	DVW2	01/18/23 11:49
Acetone	3.47	Incomplete Integration	DVW2	01/18/23 11:49
Methyl acetate	3.86	Incomplete Integration	DVW2	01/18/23 11:50
t-Butyl alcohol-d10 (IS)	4.10	Incomplete Integration	DVW2	01/18/23 11:50
1,4-Dioxane	8.48	Incomplete Integration	DVW2	01/18/23 11:51

Lab Sample ID: IC 410-336478/6 Client Sample ID:

Date Analyzed: 01/18/23 11:46 Lab File ID: JD18X05.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.08	Incomplete Integration	DVW2	01/18/23 12:09
Acetone	3.45	Incomplete Integration	DVW2	01/18/23 12:14
t-Butyl alcohol-d10 (IS)	4.08	Incomplete Integration	DVW2	01/18/23 12:15
1,4-Dioxane	8.47	Incomplete Integration	DVW2	01/18/23 12:16

Lab Sample ID: IC 410-336478/7 Client Sample ID:

Date Analyzed: 01/18/23 12:09 Lab File ID: JD18X06.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.46	Incomplete Integration	DVW2	01/18/23 12:31
Methyl acetate	3.87	Incomplete Integration	DVW2	01/18/23 12:31
t-Butyl alcohol-d10 (IS)	4.09	Incomplete Integration	DVW2	01/18/23 12:32
1,4-Dioxane	8.49	Incomplete Integration	DVW2	01/18/23 12:32

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-113568-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 336478

Lab Sample ID: ICIS 410-336478/8 Client Sample ID:

Date Analyzed: 01/18/23 12:31 Lab File ID: JD18X07.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol-d10 (IS)	4.10	Incomplete Integration	DVW2	01/18/23 12:58
1,4-Dioxane	8.48	Incomplete Integration	DVW2	01/18/23 12:58

Lab Sample ID: IC 410-336478/9 Client Sample ID:

Date Analyzed: 01/18/23 12:53 Lab File ID: JD18X08.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.86	Incomplete Integration	DVW2	01/18/23 13:16
t-Butyl alcohol-d10 (IS)	4.09	Incomplete Integration	DVW2	01/18/23 13:16
Isobutyl alcohol	7.07	Incomplete Integration	DVW2	01/18/23 13:17
1,4-Dioxane	8.47	Incomplete Integration	DVW2	01/18/23 13:17

Lab Sample ID: ICV 410-336478/11 Client Sample ID:

Date Analyzed: 01/18/23 13:37 Lab File ID: JD18X10.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.48	Incomplete Integration	DVW2	01/18/23 14:39

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-113568-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 340101

Lab Sample ID: CCVIS 410-340101/3 Client Sample ID:

Date Analyzed: 01/31/23 10:50 Lab File ID: GJ31X02.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.48	Incomplete Integration	DVW2	01/31/23 11:12

Lab Sample ID: 410-113568-13 Client Sample ID: HD-QC1-0/1-1

Date Analyzed: 01/31/23 12:18 Lab File ID: GJ31X06.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone		Invalid Compound ID	kaewrungrueangp	02/01/23 09:07
Chlorobenzene	11.10	Peak assignment corrected	kaewrungrueangp	02/01/23 09:08

Lab Sample ID: 410-113568-1 Client Sample ID: HD-COD-SW-6-0/1-0

Date Analyzed: 01/31/23 13:02 Lab File ID: GJ31X08.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroform	6.46	Peak assignment corrected	kaewrungrueangp	02/01/23 09:11

Lab Sample ID: 410-113568-2 Client Sample ID: HD-COD-SW-7-0/1-0

Date Analyzed: 01/31/23 13:24 Lab File ID: GJ31X09.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroform	6.45	Peak assignment corrected	kaewrungrueangp	02/01/23 09:12

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-113568-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 340101

Lab Sample ID: 410-113568-3 Client Sample ID: HD-COD-SW-8-0/1-0

Date Analyzed: 01/31/23 13:46 Lab File ID: GJ31X10.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	8.06	Peak assignment corrected	kaewrungrueangp	02/01/23 09:14
1,1,1-Trichloroethane		Peak assignment corrected	kaewrungrueangp	02/01/23 09:14

Lab Sample ID: 410-113568-4 Client Sample ID: HD-COD-SW-9-0/1-0

Date Analyzed: 01/31/23 14:09 Lab File ID: GJ31X11.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	5.98	Incomplete Integration	kaewrungrueangp	02/01/23 09:15
Chloroform	6.46	Incomplete Integration	kaewrungrueangp	02/01/23 09:15
1,2-Dichloroethane-d4 (Surr)	7.12	Incomplete Integration	kaewrungrueangp	02/01/23 09:15

Lab Sample ID: 410-113568-5 Client Sample ID: HD-COD-SW-13-0/1-0

Date Analyzed: 01/31/23 14:31 Lab File ID: GJ31X12.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	8.04	Peak assignment corrected	kaewrungrueangp	02/01/23 09:16

Lab Sample ID: 410-113568-6 Client Sample ID: HD-COD-SW-15-0/1-0

Date Analyzed: 01/31/23 14:53 Lab File ID: GJ31X13.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon tetrachloride	6.90	Incomplete Integration	kaewrungrueangp	02/01/23 09:17

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-113568-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 340101

Lab Sample ID: 410-113568-8 Client Sample ID: HD-COD-SW-17-0/1-0

Date Analyzed: 01/31/23 16:21 Lab File ID: GJ31X17.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlorobenzene	11.09	Peak assignment corrected	kaewrungrueangp	02/01/23 09:21

Lab Sample ID: 410-113568-11 Client Sample ID: HD-COD-SW-28-0/1-0

Date Analyzed: 01/31/23 17:26 Lab File ID: GJ31X20.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.08	Peak assignment corrected	kaewrungrueangp	02/01/23 09:23
Trichloroethene	8.04	Peak assignment corrected	kaewrungrueangp	02/01/23 09:23

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-113568-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 340956

Lab Sample ID: CCVIS 410-340956/3 Client Sample ID:

Date Analyzed: 02/02/23 10:53 Lab File ID: GF02X02.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.86	Incomplete Integration	DVW2	02/02/23 11:17
1,4-Dioxane	8.48	Incomplete Integration	DVW2	02/02/23 11:17

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-113568-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_29_826ISS_00037	02/02/23	08/02/22	Methanol, Lot EB679	10 mL	MSV_8260_SS_00715	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_00473	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_00715	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_00473	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_LCS_VOC#1_00091	02/14/23	01/15/23	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00111	1 mL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							Benzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Styrene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00109	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00109	1 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-113568-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00111	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_00109	04/30/25		Restek, Lot A0184412		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00109	01/31/24		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_00093	02/28/23	01/29/23	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00113	1 mL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							Benzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-113568-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00112	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00112	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_00113	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

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-113568-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_M_MIX2SEC_00112	04/30/25		Restek, Lot A0184412		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00112	04/30/24		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_00065	02/14/23	01/16/23	Methanol, Lot EB679	1 mL	MSV_CCV_VOC#1_00106	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methylene Chloride	50 ug/mL

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-113568-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_CCV_VOC#3_00107	200 uL	Acrolein	2499.78 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

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-113568-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSV_V_VOA2_00176	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
.MSV_CCV_VOC#1_00106	02/14/23	01/15/23	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00107	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-113568-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00103	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
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_MegaMIX#1_00107	02/14/23		Restek, Lot A0184527		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-113568-1

SDG No.:

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

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-113568-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MSV_MegaMix#2_00103	02/14/23		Restek, Lot A0173454		(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_00107	02/14/23	01/15/23	Methanol, Lot EB679	5 mL	MSV_CCV_ACR_00008	0.5 mL	Acrolein	12498.9 ug/mL
					MSV_V_Ketones_00107	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_00008	02/16/23	12/18/22	Methanol, Lot EB679	10 mL	MSV_VACR_STK_00030	9.362 mL	Acrolein	124989 ug/mL
...MSV_VACR_STK_00030	02/16/23	12/18/22	Methanol, Lot EB679	10 mL	MSV_ACROLEIN_00023	1.4402 g	Acrolein	133507 ug/mL
....MSV_ACROLEIN_00023	11/30/23		Chem Service, Lot 13910600		(Purchased Reagent)		Acrolein	0.927 g/g
..MSV_V_Ketones_00107	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
							Acetone	12500 ug/mL
.MSV_V_VOA2_00176	02/14/23	01/15/23	Methanol, Lot EB679	5 mL	MSV_V#2B_00304	1 mL	1,4-Dioxane	12500 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Methacrylonitrile	2500 ug/mL
							n-Butanol	25000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-113568-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Propionitrile	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_V#2B_00304	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_#2_826_00071	01/26/23	01/16/23	Methanol, Lot EB679	1 mL	MSV_CCV_EE_00004	50 uL	Ethyl ether	49.9996 ug/mL
					MSV_V_PentaCL_00028	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_00028	02/08/23		Restek, Lot A0184174		(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_GAS826_00132	01/23/23	01/16/23	Methanol, Lot EB679	1 mL	MSV_CCV_GASES_00371	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_00371	01/23/23		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_00134	02/07/23	01/31/23	Methanol, Lot EB679	1 mL	MSV_CCV_GASES_00383	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00383	02/07/23		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_00120	01/22/23	01/16/23	Methanol, Lot EB679	1 mL	MSV_QC_2K_GAS_00128	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-113568-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_QC_2K_GAS_00128	01/22/23		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_00122	02/03/23	01/29/23	Methanol, Lot EB679	1 mL	MSV_QC_2K_GAS_00130	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00130	02/03/23		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

Reagent

MSV_4BFB_NEAT_00007

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

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.

Analytical Test	Value
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.

PJLA Testing

PJLA Reference Material Producer

COA Form
Revision 3 (3/2015)

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

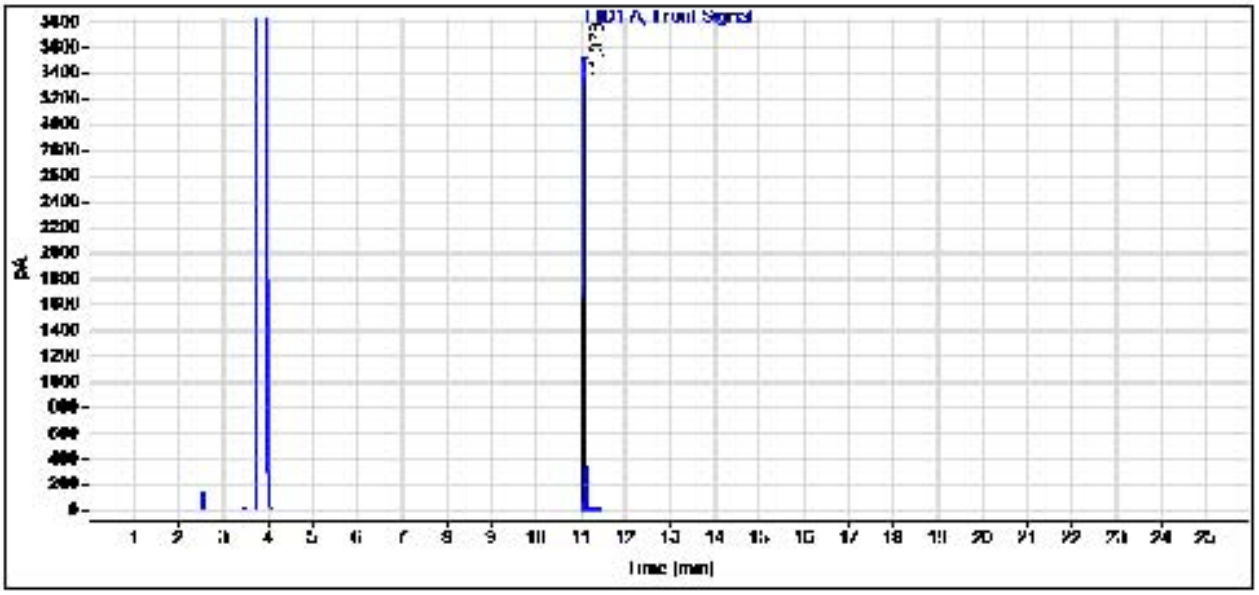
CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2022 DATA\0522\FID010615.D

Sample name: N-10809

Instrument:	GC 1	**Sample type:**	Sample
Injection date:	5/12/2022 11:36:15 AM	**Location:**	Vial 43
Acq. method:	MIX1.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%
11.078	BB	0.0355	7895.3311	3478.6162	100.0000
		Sum	7895.3311		

Reagent

MSV_M_MIX1SEC_00111

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577493 **Lot No.:** A0184354

Description : Custom VOC MegaMix®.SEC #1 Standard

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

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

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

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-Dichloroethene	1,003.8 µg/mL	+/- 9.9833 µg/mL	Gravimetric
	CAS # 75-35-4.SEC (Lot 9201700)		+/- 56.8592 µg/mL	Unstressed
	Purity 99%		+/- 58.1629 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	1,001.8 µg/mL	+/- 9.9634 µg/mL	Gravimetric
	CAS # 75-09-2.SEC (Lot FGM02)		+/- 56.7459 µg/mL	Unstressed
	Purity 99%		+/- 58.0470 µg/mL	Stressed
3	trans-1,2-Dichloroethene	1,000.3 µg/mL	+/- 9.9490 µg/mL	Gravimetric
	CAS # 156-60-5.SEC (Lot TS5UB)		+/- 56.6637 µg/mL	Unstressed
	Purity 99%		+/- 57.9630 µg/mL	Stressed
4	1,1-Dichloroethane	1,002.0 µg/mL	+/- 9.9659 µg/mL	Gravimetric
	CAS # 75-34-3.SEC (Lot 7482000)		+/- 56.7600 µg/mL	Unstressed
	Purity 99%		+/- 58.0615 µg/mL	Stressed
5	2,2-Dichloropropane	1,000.0 µg/mL	+/- 9.9222 µg/mL	Gravimetric
	CAS # 594-20-7.SEC (Lot I7E8E)		+/- 56.6441 µg/mL	Unstressed
	Purity 98%		+/- 57.9431 µg/mL	Stressed
6	cis-1,2-Dichloroethene	1,000.1 µg/mL	+/- 9.9225 µg/mL	Gravimetric
	CAS # 156-59-2.SEC (Lot YZO5O)		+/- 56.6460 µg/mL	Unstressed
	Purity 99%		+/- 57.9451 µg/mL	Stressed
7	Chloroform	1,000.8 µg/mL	+/- 9.9535 µg/mL	Gravimetric
	CAS # 67-66-3.SEC (Lot 1297547)		+/- 56.6892 µg/mL	Unstressed
	Purity 99%		+/- 57.9891 µg/mL	Stressed

8	Bromochloromethane		1,000.1	µg/mL	+/-	9.9231	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 8529200)			+/-	56.6496	µg/mL	Unstressed
	Purity 99%				+/-	57.9487	µg/mL	Stressed
9	1,1,1-trichloroethane		1,000.3	µg/mL	+/-	9.9491	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	56.6645	µg/mL	Unstressed
	Purity 98%				+/-	57.9637	µg/mL	Stressed
10	1,1-Dichloropropene		1,002.5	µg/mL	+/-	9.9470	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 8541600)			+/-	56.7861	µg/mL	Unstressed
	Purity 95%				+/-	58.0883	µg/mL	Stressed
11	Carbon tetrachloride		1,000.8	µg/mL	+/-	9.9535	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	56.6892	µg/mL	Unstressed
	Purity 99%				+/-	57.9891	µg/mL	Stressed
12	1,2-Dichloroethane		1,000.6	µg/mL	+/-	9.9524	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot 00016165)			+/-	56.6831	µg/mL	Unstressed
	Purity 99%				+/-	57.9828	µg/mL	Stressed
13	Benzene		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
14	Trichloroethene		1,000.9	µg/mL	+/-	9.9548	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	56.6965	µg/mL	Unstressed
	Purity 99%				+/-	57.9965	µg/mL	Stressed
15	1,2-Dichloropropane		1,000.1	µg/mL	+/-	9.9474	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/-	56.6547	µg/mL	Unstressed
	Purity 99%				+/-	57.9537	µg/mL	Stressed
16	Bromodichloromethane		1,000.8	µg/mL	+/-	9.9539	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)			+/-	56.6918	µg/mL	Unstressed
	Purity 99%				+/-	57.9917	µg/mL	Stressed
17	Dibromomethane		1,000.1	µg/mL	+/-	9.9231	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot MOKKJ)			+/-	56.6496	µg/mL	Unstressed
	Purity 99%				+/-	57.9487	µg/mL	Stressed
18	cis-1,3-Dichloropropene		1,000.9	µg/mL	+/-	9.9550	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	56.6979	µg/mL	Unstressed
	Purity 98%				+/-	57.9980	µg/mL	Stressed
19	Toluene		1,000.0	µg/mL	+/-	9.9222	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	56.6446	µg/mL	Unstressed
	Purity 99%				+/-	57.9436	µg/mL	Stressed
20	trans-1,3-Dichloropropene		1,002.1	µg/mL	+/-	9.9673	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	56.7679	µg/mL	Unstressed
	Purity 96%				+/-	58.0696	µg/mL	Stressed
21	1,1,2-Trichloroethane		1,001.3	µg/mL	+/-	9.9585	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/-	56.7176	µg/mL	Unstressed
	Purity 99%				+/-	58.0180	µg/mL	Stressed
22	1,3-Dichloropropane		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
23	Tetrachloroethene		1,000.2	µg/mL	+/-	9.9484	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	56.6603	µg/mL	Unstressed
	Purity 99%				+/-	57.9595	µg/mL	Stressed

24	Dibromochloromethane		1,000.5	µg/mL	+/-	9.9509	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)			+/-	56.6743	µg/mL	Unstressed
	Purity 97%				+/-	57.9738	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		1,000.1	µg/mL	+/-	9.9230	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 7511900)			+/-	56.6489	µg/mL	Unstressed
	Purity 99%				+/-	57.9480	µg/mL	Stressed
26	Chlorobenzene		1,001.4	µg/mL	+/-	9.9598	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	56.7253	µg/mL	Unstressed
	Purity 99%				+/-	58.0260	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		1,000.1	µg/mL	+/-	9.9230	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)			+/-	56.6489	µg/mL	Unstressed
	Purity 99%				+/-	57.9480	µg/mL	Stressed
28	Ethylbenzene		1,000.2	µg/mL	+/-	9.9235	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)			+/-	56.6517	µg/mL	Unstressed
	Purity 99%				+/-	57.9509	µg/mL	Stressed
29	m-Xylene		1,000.2	µg/mL	+/-	9.9235	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot 7ZV6F)			+/-	56.6517	µg/mL	Unstressed
	Purity 99%				+/-	57.9509	µg/mL	Stressed
30	p-Xylene		1,000.1	µg/mL	+/-	9.9224	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot D6UOA)			+/-	56.6453	µg/mL	Unstressed
	Purity 99%				+/-	57.9444	µg/mL	Stressed
31	o-Xylene		1,000.1	µg/mL	+/-	9.9225	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)			+/-	56.6460	µg/mL	Unstressed
	Purity 99%				+/-	57.9451	µg/mL	Stressed
32	Styrene		1,000.1	µg/mL	+/-	9.9231	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)			+/-	56.6496	µg/mL	Unstressed
	Purity 99%				+/-	57.9487	µg/mL	Stressed
33	Isopropylbenzene (cumene)		1,000.0	µg/mL	+/-	9.9220	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot JN4EC)			+/-	56.6432	µg/mL	Unstressed
	Purity 99%				+/-	57.9422	µg/mL	Stressed
34	Bromoform		1,001.7	µg/mL	+/-	9.9633	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 9170700)			+/-	56.7453	µg/mL	Unstressed
	Purity 99%				+/-	58.0464	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		1,001.6	µg/mL	+/-	9.9624	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot BCCB0724)			+/-	56.7398	µg/mL	Unstressed
	Purity 98%				+/-	58.0408	µg/mL	Stressed
36	1,2,3-Trichloropropane		1,000.0	µg/mL	+/-	9.9222	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)			+/-	56.6446	µg/mL	Unstressed
	Purity 99%				+/-	57.9436	µg/mL	Stressed
37	n-Propylbenzene		1,000.1	µg/mL	+/-	9.9224	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)			+/-	56.6453	µg/mL	Unstressed
	Purity 99%				+/-	57.9444	µg/mL	Stressed
38	Bromobenzene		1,000.2	µg/mL	+/-	9.9234	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 8DKWJ)			+/-	56.6510	µg/mL	Unstressed
	Purity 99%				+/-	57.9502	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		1,000.1	µg/mL	+/-	9.9225	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot TOOOF)			+/-	56.6460	µg/mL	Unstressed
	Purity 99%				+/-	57.9451	µg/mL	Stressed

40	2-Chlorotoluene		1,000.0	µg/mL	+/-	9.9220	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot BRHPM)			+/-	56.6432	µg/mL	Unstressed
	Purity 99%				+/-	57.9422	µg/mL	Stressed
41	4-Chlorotoluene		1,000.1	µg/mL	+/-	9.9227	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot S5SKD)			+/-	56.6475	µg/mL	Unstressed
	Purity 99%				+/-	57.9465	µg/mL	Stressed
42	tert-Butylbenzene		1,000.1	µg/mL	+/-	9.9226	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	56.6468	µg/mL	Unstressed
	Purity 99%				+/-	57.9458	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
44	sec-Butylbenzene		1,000.1	µg/mL	+/-	9.9226	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot O4HRF)			+/-	56.6468	µg/mL	Unstressed
	Purity 99%				+/-	57.9458	µg/mL	Stressed
45	4-Isopropyltoluene (p-cymene)		1,000.1	µg/mL	+/-	9.9226	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 8380000)			+/-	56.6468	µg/mL	Unstressed
	Purity 99%				+/-	57.9458	µg/mL	Stressed
46	1,3-Dichlorobenzene		1,000.1	µg/mL	+/-	9.9467	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	56.6504	µg/mL	Unstressed
	Purity 99%				+/-	57.9494	µg/mL	Stressed
47	1,4-Dichlorobenzene		1,002.5	µg/mL	+/-	9.9708	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot YWKDC-MK)			+/-	56.7875	µg/mL	Unstressed
	Purity 99%				+/-	58.0896	µg/mL	Stressed
48	n-Butylbenzene		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
49	1,2-Dichlorobenzene		1,001.6	µg/mL	+/-	9.9619	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	56.7374	µg/mL	Unstressed
	Purity 99%				+/-	58.0383	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		1,000.0	µg/mL	+/-	9.9220	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot Q135-105)			+/-	56.6432	µg/mL	Unstressed
	Purity 99%				+/-	57.9422	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		1,000.1	µg/mL	+/-	9.9224	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot IGLFA)			+/-	56.6453	µg/mL	Unstressed
	Purity 99%				+/-	57.9444	µg/mL	Stressed
52	Hexachlorobutadiene		1,000.8	µg/mL	+/-	9.9297	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 8532700)			+/-	56.6870	µg/mL	Unstressed
	Purity 97%				+/-	57.9870	µg/mL	Stressed
53	Naphthalene		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot SKZ5N)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		1,000.7	µg/mL	+/-	9.9292	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	56.6844	µg/mL	Unstressed
	Purity 98%				+/-	57.9843	µg/mL	Stressed

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

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

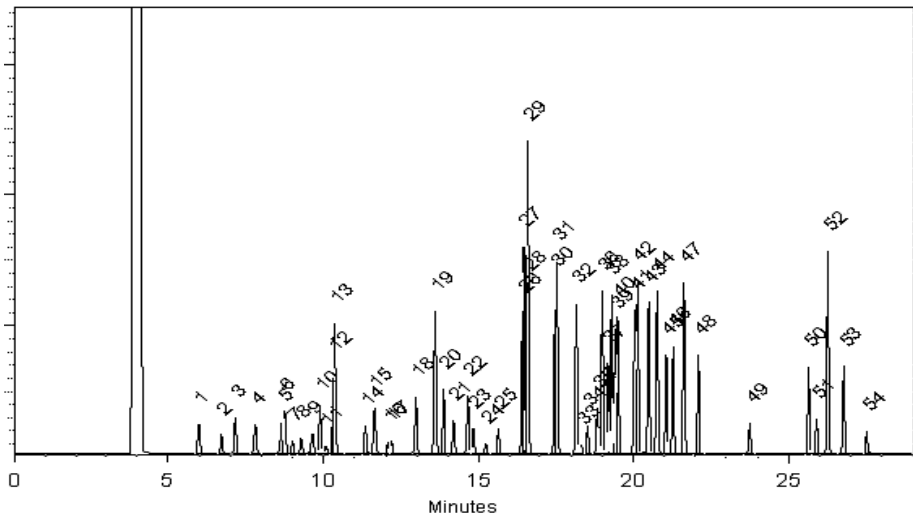
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Katelyn McGinni - Operations Tech I

Date Mixed: 21-Apr-2022 **Balance:** B345965662

Marlina Cowan - Operations Tech I

Date Passed: 27-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX1SEC_00113

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577493 **Lot No.:** A0184354

Description : Custom VOC MegaMix®.SEC #1 Standard

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

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

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

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-Dichloroethene	1,003.8 µg/mL	+/- 9.9833 µg/mL	Gravimetric
	CAS # 75-35-4.SEC (Lot 9201700)		+/- 56.8592 µg/mL	Unstressed
	Purity 99%		+/- 58.1629 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	1,001.8 µg/mL	+/- 9.9634 µg/mL	Gravimetric
	CAS # 75-09-2.SEC (Lot FGM02)		+/- 56.7459 µg/mL	Unstressed
	Purity 99%		+/- 58.0470 µg/mL	Stressed
3	trans-1,2-Dichloroethene	1,000.3 µg/mL	+/- 9.9490 µg/mL	Gravimetric
	CAS # 156-60-5.SEC (Lot TS5UB)		+/- 56.6637 µg/mL	Unstressed
	Purity 99%		+/- 57.9630 µg/mL	Stressed
4	1,1-Dichloroethane	1,002.0 µg/mL	+/- 9.9659 µg/mL	Gravimetric
	CAS # 75-34-3.SEC (Lot 7482000)		+/- 56.7600 µg/mL	Unstressed
	Purity 99%		+/- 58.0615 µg/mL	Stressed
5	2,2-Dichloropropane	1,000.0 µg/mL	+/- 9.9222 µg/mL	Gravimetric
	CAS # 594-20-7.SEC (Lot I7E8E)		+/- 56.6441 µg/mL	Unstressed
	Purity 98%		+/- 57.9431 µg/mL	Stressed
6	cis-1,2-Dichloroethene	1,000.1 µg/mL	+/- 9.9225 µg/mL	Gravimetric
	CAS # 156-59-2.SEC (Lot YZO5O)		+/- 56.6460 µg/mL	Unstressed
	Purity 99%		+/- 57.9451 µg/mL	Stressed
7	Chloroform	1,000.8 µg/mL	+/- 9.9535 µg/mL	Gravimetric
	CAS # 67-66-3.SEC (Lot 1297547)		+/- 56.6892 µg/mL	Unstressed
	Purity 99%		+/- 57.9891 µg/mL	Stressed

8	Bromochloromethane		1,000.1	µg/mL	+/-	9.9231	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 8529200)			+/-	56.6496	µg/mL	Unstressed
	Purity 99%				+/-	57.9487	µg/mL	Stressed
9	1,1,1-trichloroethane		1,000.3	µg/mL	+/-	9.9491	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	56.6645	µg/mL	Unstressed
	Purity 98%				+/-	57.9637	µg/mL	Stressed
10	1,1-Dichloropropene		1,002.5	µg/mL	+/-	9.9470	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 8541600)			+/-	56.7861	µg/mL	Unstressed
	Purity 95%				+/-	58.0883	µg/mL	Stressed
11	Carbon tetrachloride		1,000.8	µg/mL	+/-	9.9535	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	56.6892	µg/mL	Unstressed
	Purity 99%				+/-	57.9891	µg/mL	Stressed
12	1,2-Dichloroethane		1,000.6	µg/mL	+/-	9.9524	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot 00016165)			+/-	56.6831	µg/mL	Unstressed
	Purity 99%				+/-	57.9828	µg/mL	Stressed
13	Benzene		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
14	Trichloroethene		1,000.9	µg/mL	+/-	9.9548	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	56.6965	µg/mL	Unstressed
	Purity 99%				+/-	57.9965	µg/mL	Stressed
15	1,2-Dichloropropane		1,000.1	µg/mL	+/-	9.9474	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/-	56.6547	µg/mL	Unstressed
	Purity 99%				+/-	57.9537	µg/mL	Stressed
16	Bromodichloromethane		1,000.8	µg/mL	+/-	9.9539	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)			+/-	56.6918	µg/mL	Unstressed
	Purity 99%				+/-	57.9917	µg/mL	Stressed
17	Dibromomethane		1,000.1	µg/mL	+/-	9.9231	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot MOKKJ)			+/-	56.6496	µg/mL	Unstressed
	Purity 99%				+/-	57.9487	µg/mL	Stressed
18	cis-1,3-Dichloropropene		1,000.9	µg/mL	+/-	9.9550	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	56.6979	µg/mL	Unstressed
	Purity 98%				+/-	57.9980	µg/mL	Stressed
19	Toluene		1,000.0	µg/mL	+/-	9.9222	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	56.6446	µg/mL	Unstressed
	Purity 99%				+/-	57.9436	µg/mL	Stressed
20	trans-1,3-Dichloropropene		1,002.1	µg/mL	+/-	9.9673	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	56.7679	µg/mL	Unstressed
	Purity 96%				+/-	58.0696	µg/mL	Stressed
21	1,1,2-Trichloroethane		1,001.3	µg/mL	+/-	9.9585	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/-	56.7176	µg/mL	Unstressed
	Purity 99%				+/-	58.0180	µg/mL	Stressed
22	1,3-Dichloropropane		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
23	Tetrachloroethene		1,000.2	µg/mL	+/-	9.9484	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	56.6603	µg/mL	Unstressed
	Purity 99%				+/-	57.9595	µg/mL	Stressed

24	Dibromochloromethane		1,000.5	µg/mL	+/-	9.9509	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)			+/-	56.6743	µg/mL	Unstressed
	Purity 97%				+/-	57.9738	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		1,000.1	µg/mL	+/-	9.9230	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 7511900)			+/-	56.6489	µg/mL	Unstressed
	Purity 99%				+/-	57.9480	µg/mL	Stressed
26	Chlorobenzene		1,001.4	µg/mL	+/-	9.9598	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	56.7253	µg/mL	Unstressed
	Purity 99%				+/-	58.0260	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		1,000.1	µg/mL	+/-	9.9230	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)			+/-	56.6489	µg/mL	Unstressed
	Purity 99%				+/-	57.9480	µg/mL	Stressed
28	Ethylbenzene		1,000.2	µg/mL	+/-	9.9235	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)			+/-	56.6517	µg/mL	Unstressed
	Purity 99%				+/-	57.9509	µg/mL	Stressed
29	m-Xylene		1,000.2	µg/mL	+/-	9.9235	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot 7ZV6F)			+/-	56.6517	µg/mL	Unstressed
	Purity 99%				+/-	57.9509	µg/mL	Stressed
30	p-Xylene		1,000.1	µg/mL	+/-	9.9224	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot D6UOA)			+/-	56.6453	µg/mL	Unstressed
	Purity 99%				+/-	57.9444	µg/mL	Stressed
31	o-Xylene		1,000.1	µg/mL	+/-	9.9225	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)			+/-	56.6460	µg/mL	Unstressed
	Purity 99%				+/-	57.9451	µg/mL	Stressed
32	Styrene		1,000.1	µg/mL	+/-	9.9231	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)			+/-	56.6496	µg/mL	Unstressed
	Purity 99%				+/-	57.9487	µg/mL	Stressed
33	Isopropylbenzene (cumene)		1,000.0	µg/mL	+/-	9.9220	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot JN4EC)			+/-	56.6432	µg/mL	Unstressed
	Purity 99%				+/-	57.9422	µg/mL	Stressed
34	Bromoform		1,001.7	µg/mL	+/-	9.9633	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 9170700)			+/-	56.7453	µg/mL	Unstressed
	Purity 99%				+/-	58.0464	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		1,001.6	µg/mL	+/-	9.9624	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot BCCB0724)			+/-	56.7398	µg/mL	Unstressed
	Purity 98%				+/-	58.0408	µg/mL	Stressed
36	1,2,3-Trichloropropane		1,000.0	µg/mL	+/-	9.9222	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)			+/-	56.6446	µg/mL	Unstressed
	Purity 99%				+/-	57.9436	µg/mL	Stressed
37	n-Propylbenzene		1,000.1	µg/mL	+/-	9.9224	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)			+/-	56.6453	µg/mL	Unstressed
	Purity 99%				+/-	57.9444	µg/mL	Stressed
38	Bromobenzene		1,000.2	µg/mL	+/-	9.9234	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 8DKWJ)			+/-	56.6510	µg/mL	Unstressed
	Purity 99%				+/-	57.9502	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		1,000.1	µg/mL	+/-	9.9225	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot TOOOF)			+/-	56.6460	µg/mL	Unstressed
	Purity 99%				+/-	57.9451	µg/mL	Stressed

40	2-Chlorotoluene		1,000.0	µg/mL	+/-	9.9220	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot BRHPM)			+/-	56.6432	µg/mL	Unstressed
	Purity 99%				+/-	57.9422	µg/mL	Stressed
41	4-Chlorotoluene		1,000.1	µg/mL	+/-	9.9227	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot S5SKD)			+/-	56.6475	µg/mL	Unstressed
	Purity 99%				+/-	57.9465	µg/mL	Stressed
42	tert-Butylbenzene		1,000.1	µg/mL	+/-	9.9226	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	56.6468	µg/mL	Unstressed
	Purity 99%				+/-	57.9458	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
44	sec-Butylbenzene		1,000.1	µg/mL	+/-	9.9226	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot O4HRF)			+/-	56.6468	µg/mL	Unstressed
	Purity 99%				+/-	57.9458	µg/mL	Stressed
45	4-Isopropyltoluene (p-cymene)		1,000.1	µg/mL	+/-	9.9226	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 8380000)			+/-	56.6468	µg/mL	Unstressed
	Purity 99%				+/-	57.9458	µg/mL	Stressed
46	1,3-Dichlorobenzene		1,000.1	µg/mL	+/-	9.9467	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	56.6504	µg/mL	Unstressed
	Purity 99%				+/-	57.9494	µg/mL	Stressed
47	1,4-Dichlorobenzene		1,002.5	µg/mL	+/-	9.9708	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot YWKDC-MK)			+/-	56.7875	µg/mL	Unstressed
	Purity 99%				+/-	58.0896	µg/mL	Stressed
48	n-Butylbenzene		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
49	1,2-Dichlorobenzene		1,001.6	µg/mL	+/-	9.9619	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	56.7374	µg/mL	Unstressed
	Purity 99%				+/-	58.0383	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		1,000.0	µg/mL	+/-	9.9220	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot Q135-105)			+/-	56.6432	µg/mL	Unstressed
	Purity 99%				+/-	57.9422	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		1,000.1	µg/mL	+/-	9.9224	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot IGLFA)			+/-	56.6453	µg/mL	Unstressed
	Purity 99%				+/-	57.9444	µg/mL	Stressed
52	Hexachlorobutadiene		1,000.8	µg/mL	+/-	9.9297	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 8532700)			+/-	56.6870	µg/mL	Unstressed
	Purity 97%				+/-	57.9870	µg/mL	Stressed
53	Naphthalene		1,000.1	µg/mL	+/-	9.9229	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot SKZ5N)			+/-	56.6482	µg/mL	Unstressed
	Purity 99%				+/-	57.9473	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		1,000.7	µg/mL	+/-	9.9292	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	56.6844	µg/mL	Unstressed
	Purity 98%				+/-	57.9843	µg/mL	Stressed

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

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

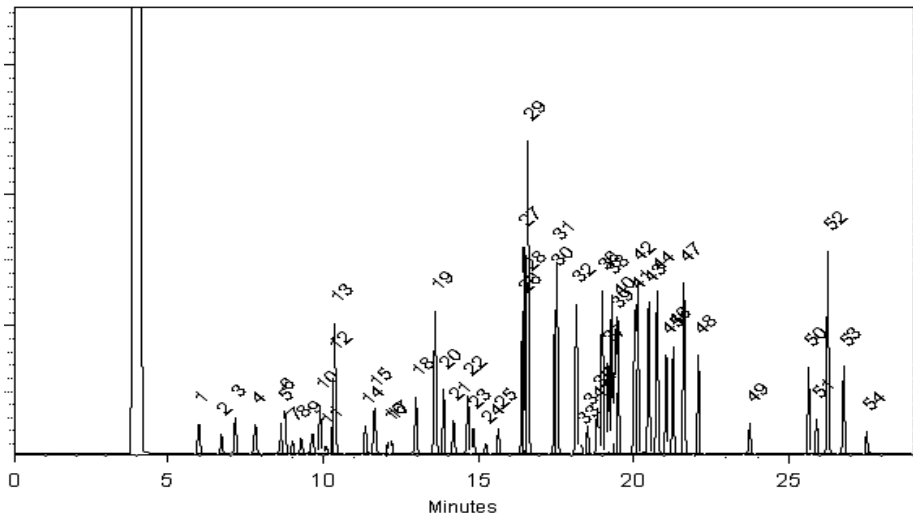
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Katelyn McGinni - Operations Tech I

Date Mixed: 21-Apr-2022 **Balance:** B345965662

Marlina Cowan - Operations Tech I

Date Passed: 27-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX2SEC_00109

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577494 **Lot No.:** A0184412

Description : Custom VOC MegaMix®.SEC #2 Standard

Custom VOC MegaMix®.SEC #2 Standard 1,000-50,000µg/mL, P&T Methanol, 1mL/ampul

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

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

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Pentane (C5)	1,008.7 µg/mL	+/- 5.9912 µg/mL	Gravimetric
	CAS # 109-66-0.SEC (Lot FGH02)		+/- 49.9116 µg/mL	Unstressed
	Purity 99%		+/- 51.1520 µg/mL	Stressed
2	2-Propanol (isopropanol)	7,505.3 µg/mL	+/- 43.9454 µg/mL	Gravimetric
	CAS # 67-63-0.SEC (Lot G6HNF)		+/- 371.3091 µg/mL	Unstressed
	Purity 99%		+/- 380.5402 µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,010.0 µg/mL	+/- 5.9991 µg/mL	Gravimetric
	CAS # 76-13-1.SEC (Lot 18342)		+/- 49.9776 µg/mL	Unstressed
	Purity 99%		+/- 51.2196 µg/mL	Stressed
4	tert-Butanol (TBA)	10,043.3 µg/mL	+/- 58.8059 µg/mL	Gravimetric
	CAS # 75-65-0.SEC (Lot ZSJ2O)		+/- 496.8708 µg/mL	Unstressed
	Purity 99%		+/- 509.2235 µg/mL	Stressed
5	Methyl acetate	1,002.0 µg/mL	+/- 5.9516 µg/mL	Gravimetric
	CAS # 79-20-9.SEC (Lot UCNEL)		+/- 49.5817 µg/mL	Unstressed
	Purity 99%		+/- 50.8139 µg/mL	Stressed
6	Iodomethane (methyl iodide)	1,003.3 µg/mL	+/- 5.9595 µg/mL	Gravimetric
	CAS # 74-88-4.SEC (Lot Y25A027)		+/- 49.6477 µg/mL	Unstressed
	Purity 99%		+/- 50.8815 µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	1,003.3 µg/mL	+/- 5.9595 µg/mL	Gravimetric
	CAS # 107-05-1.SEC (Lot RD210329)		+/- 49.6477 µg/mL	Unstressed
	Purity 99%		+/- 50.8815 µg/mL	Stressed

8	Carbon disulfide		1,008.7	µg/mL	+/-	5.9912	µg/mL	Gravimetric
	CAS # 75-15-0.SEC	(Lot MKBL1376V)			+/-	49.9116	µg/mL	Unstressed
	Purity 99%				+/-	51.1520	µg/mL	Stressed
9	Acrylonitrile		5,034.7	µg/mL	+/-	29.5462	µg/mL	Gravimetric
	CAS # 107-13-1.SEC	(Lot V54AD)			+/-	249.0865	µg/mL	Unstressed
	Purity 99%				+/-	255.2787	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		1,008.0	µg/mL	+/-	5.9872	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC	(Lot ZHKYA)			+/-	49.8786	µg/mL	Unstressed
	Purity 99%				+/-	51.1182	µg/mL	Stressed
11	n-Hexane (C6)		1,002.7	µg/mL	+/-	5.9555	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot 10188491)			+/-	49.6147	µg/mL	Unstressed
	Purity 99%				+/-	50.8477	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		1,002.7	µg/mL	+/-	5.9555	µg/mL	Gravimetric
	CAS # 108-20-3.SEC	(Lot LL7TN-SH)			+/-	49.6147	µg/mL	Unstressed
	Purity 99%				+/-	50.8477	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		1,006.7	µg/mL	+/-	5.9793	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210927JLM)			+/-	49.8127	µg/mL	Unstressed
	Purity 99%				+/-	51.0506	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		1,004.2	µg/mL	+/-	5.9645	µg/mL	Gravimetric
	CAS # 637-92-3.SEC	(Lot UCI5B)			+/-	49.6893	µg/mL	Unstressed
	Purity 98%				+/-	50.9241	µg/mL	Stressed
15	Propionitrile		7,512.7	µg/mL	+/-	43.9883	µg/mL	Gravimetric
	CAS # 107-12-0.SEC	(Lot PS48O)			+/-	371.6719	µg/mL	Unstressed
	Purity 99%				+/-	380.9121	µg/mL	Stressed
16	Methacrylonitrile		7,502.7	µg/mL	+/-	43.9298	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012020)			+/-	371.1772	µg/mL	Unstressed
	Purity 99%				+/-	380.4050	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		25,034.0	µg/mL	+/-	146.5796	µg/mL	Gravimetric
	CAS # 78-83-1.SEC	(Lot YNG3K)			+/-	1,238.4996	µg/mL	Unstressed
	Purity 99%				+/-	1,269.2900	µg/mL	Stressed
18	Tetrahydrofuran		5,008.7	µg/mL	+/-	29.3937	µg/mL	Gravimetric
	CAS # 109-99-9.SEC	(Lot 3NYHE)			+/-	247.8002	µg/mL	Unstressed
	Purity 99%				+/-	253.9604	µg/mL	Stressed
19	Cyclohexane		1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	49.6807	µg/mL	Unstressed
	Purity 99%				+/-	50.9153	µg/mL	Stressed
20	1-Butanol		50,012.0	µg/mL	+/-	292.8313	µg/mL	Gravimetric
	CAS # 71-36-3.SEC	(Lot RSHAH)			+/-	2,474.2286	µg/mL	Unstressed
	Purity 99%				+/-	2,535.7406	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		1,009.4	µg/mL	+/-	5.9955	µg/mL	Gravimetric
	CAS # 994-05-8.SEC	(Lot 12075100)			+/-	49.9479	µg/mL	Unstressed
	Purity 98%				+/-	51.1892	µg/mL	Stressed
22	n-Heptane (C7)		1,007.3	µg/mL	+/-	5.9833	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot TFHUC)			+/-	49.8456	µg/mL	Unstressed
	Purity 99%				+/-	51.0844	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		1,004.7	µg/mL	+/-	5.9674	µg/mL	Gravimetric
	CAS # 919-94-8.SEC	(Lot 11370700)			+/-	49.7137	µg/mL	Unstressed
	Purity 99%				+/-	50.9491	µg/mL	Stressed

24	Methylcyclohexane		1,005.3 µg/mL	+/-	5.9714	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot Q02QG)		+/-	49.7467	µg/mL	Unstressed
	Purity 99%			+/-	50.9829	µg/mL	Stressed
25	Methyl methacrylate		1,004.0 µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 80-62-6.SEC	(Lot G01X021)		+/-	49.6807	µg/mL	Unstressed
	Purity 99%			+/-	50.9153	µg/mL	Stressed
26	1,4-Dioxane		25,019.3 µg/mL	+/-	146.4937	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot KLE2K)		+/-	1,237.7740	µg/mL	Unstressed
	Purity 99%			+/-	1,268.5463	µg/mL	Stressed
27	2-Nitropropane		1,010.0 µg/mL	+/-	5.9991	µg/mL	Gravimetric
	CAS # 79-46-9.SEC	(Lot F43IA)		+/-	49.9776	µg/mL	Unstressed
	Purity 99%			+/-	51.2196	µg/mL	Stressed
28	Ethyl methacrylate		1,001.3 µg/mL	+/-	5.9476	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot AQSPO)		+/-	49.5487	µg/mL	Unstressed
	Purity 99%			+/-	50.7801	µg/mL	Stressed
29	1-Chlorohexane		1,000.7 µg/mL	+/-	5.9437	µg/mL	Gravimetric
	CAS # 544-10-5.SEC	(Lot 13075400)		+/-	49.5158	µg/mL	Unstressed
	Purity 99%			+/-	50.7463	µg/mL	Stressed
30	trans-1,4-Dichloro-2-butene		5,014.9 µg/mL	+/-	29.4302	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot RD220126S)		+/-	248.1086	µg/mL	Unstressed
	Purity 97%			+/-	254.2764	µg/mL	Stressed
31	1,2,3-Trimethylbenzene		1,003.5 µg/mL	+/-	5.9606	µg/mL	Gravimetric
	CAS # 526-73-8.SEC	(Lot 11386600)		+/-	49.6569	µg/mL	Unstressed
	Purity 98%			+/-	50.8910	µg/mL	Stressed
32	1,3-Diethylbenzene		1,001.3 µg/mL	+/-	5.9476	µg/mL	Gravimetric
	CAS # 141-93-5.SEC	(Lot 113566-1)		+/-	49.5487	µg/mL	Unstressed
	Purity 99%			+/-	50.7801	µg/mL	Stressed
33	Benzyl chloride		1,001.3 µg/mL	+/-	5.9476	µg/mL	Gravimetric
	CAS # 100-44-7.SEC	(Lot H29N03)		+/-	49.5487	µg/mL	Unstressed
	Purity 99%			+/-	50.7801	µg/mL	Stressed
34	1,4-Diethylbenzene		1,001.6 µg/mL	+/-	5.9490	µg/mL	Gravimetric
	CAS # 105-05-5.SEC	(Lot FBQ02)		+/-	49.5600	µg/mL	Unstressed
	Purity 98%			+/-	50.7916	µg/mL	Stressed
35	1,2-Diethylbenzene		1,002.0 µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 135-01-3.SEC	(Lot BCBF3667V)		+/-	49.5817	µg/mL	Unstressed
	Purity 99%			+/-	50.8139	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		1,009.3 µg/mL	+/-	5.9951	µg/mL	Gravimetric
	CAS # 108-70-3.SEC	(Lot I28U021)		+/-	49.9446	µg/mL	Unstressed
	Purity 99%			+/-	51.1858	µg/mL	Stressed
37	2-Methylnaphthalene		1,002.7 µg/mL	+/-	5.9555	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)		+/-	49.6147	µg/mL	Unstressed
	Purity 99%			+/-	50.8477	µg/mL	Stressed

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

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

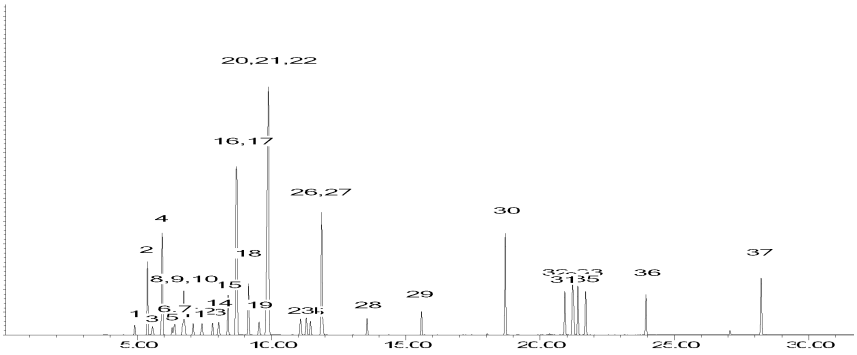
Carrier Gas:
helium-constant pressure 30 psi

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.

Lane Kibe - Mix Technician

Date Mixed: 22-Apr-2022 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX2SEC_00112

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577494 **Lot No.:** A0184412

Description : Custom VOC MegaMix®.SEC #2 Standard

Custom VOC MegaMix®.SEC #2 Standard 1,000-50,000µg/mL, P&T Methanol, 1mL/ampul

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

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

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	n-Pentane (C5)	1,008.7 µg/mL	+/- 5.9912	µg/mL	Gravimetric
	CAS # 109-66-0.SEC (Lot FGH02)		+/- 49.9116	µg/mL	Unstressed
	Purity 99%		+/- 51.1520	µg/mL	Stressed
2	2-Propanol (isopropanol)	7,505.3 µg/mL	+/- 43.9454	µg/mL	Gravimetric
	CAS # 67-63-0.SEC (Lot G6HNF)		+/- 371.3091	µg/mL	Unstressed
	Purity 99%		+/- 380.5402	µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,010.0 µg/mL	+/- 5.9991	µg/mL	Gravimetric
	CAS # 76-13-1.SEC (Lot 18342)		+/- 49.9776	µg/mL	Unstressed
	Purity 99%		+/- 51.2196	µg/mL	Stressed
4	tert-Butanol (TBA)	10,043.3 µg/mL	+/- 58.8059	µg/mL	Gravimetric
	CAS # 75-65-0.SEC (Lot ZSJ2O)		+/- 496.8708	µg/mL	Unstressed
	Purity 99%		+/- 509.2235	µg/mL	Stressed
5	Methyl acetate	1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 79-20-9.SEC (Lot UCNEL)		+/- 49.5817	µg/mL	Unstressed
	Purity 99%		+/- 50.8139	µg/mL	Stressed
6	Iodomethane (methyl iodide)	1,003.3 µg/mL	+/- 5.9595	µg/mL	Gravimetric
	CAS # 74-88-4.SEC (Lot Y25A027)		+/- 49.6477	µg/mL	Unstressed
	Purity 99%		+/- 50.8815	µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	1,003.3 µg/mL	+/- 5.9595	µg/mL	Gravimetric
	CAS # 107-05-1.SEC (Lot RD210329)		+/- 49.6477	µg/mL	Unstressed
	Purity 99%		+/- 50.8815	µg/mL	Stressed

8	Carbon disulfide		1,008.7	µg/mL	+/-	5.9912	µg/mL	Gravimetric
	CAS # 75-15-0.SEC	(Lot MKBL1376V)			+/-	49.9116	µg/mL	Unstressed
	Purity 99%				+/-	51.1520	µg/mL	Stressed
9	Acrylonitrile		5,034.7	µg/mL	+/-	29.5462	µg/mL	Gravimetric
	CAS # 107-13-1.SEC	(Lot V54AD)			+/-	249.0865	µg/mL	Unstressed
	Purity 99%				+/-	255.2787	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		1,008.0	µg/mL	+/-	5.9872	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC	(Lot ZHKYA)			+/-	49.8786	µg/mL	Unstressed
	Purity 99%				+/-	51.1182	µg/mL	Stressed
11	n-Hexane (C6)		1,002.7	µg/mL	+/-	5.9555	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot 10188491)			+/-	49.6147	µg/mL	Unstressed
	Purity 99%				+/-	50.8477	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		1,002.7	µg/mL	+/-	5.9555	µg/mL	Gravimetric
	CAS # 108-20-3.SEC	(Lot LL7TN-SH)			+/-	49.6147	µg/mL	Unstressed
	Purity 99%				+/-	50.8477	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		1,006.7	µg/mL	+/-	5.9793	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210927JLM)			+/-	49.8127	µg/mL	Unstressed
	Purity 99%				+/-	51.0506	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		1,004.2	µg/mL	+/-	5.9645	µg/mL	Gravimetric
	CAS # 637-92-3.SEC	(Lot UCI5B)			+/-	49.6893	µg/mL	Unstressed
	Purity 98%				+/-	50.9241	µg/mL	Stressed
15	Propionitrile		7,512.7	µg/mL	+/-	43.9883	µg/mL	Gravimetric
	CAS # 107-12-0.SEC	(Lot PS48O)			+/-	371.6719	µg/mL	Unstressed
	Purity 99%				+/-	380.9121	µg/mL	Stressed
16	Methacrylonitrile		7,502.7	µg/mL	+/-	43.9298	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012020)			+/-	371.1772	µg/mL	Unstressed
	Purity 99%				+/-	380.4050	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		25,034.0	µg/mL	+/-	146.5796	µg/mL	Gravimetric
	CAS # 78-83-1.SEC	(Lot YNG3K)			+/-	1,238.4996	µg/mL	Unstressed
	Purity 99%				+/-	1,269.2900	µg/mL	Stressed
18	Tetrahydrofuran		5,008.7	µg/mL	+/-	29.3937	µg/mL	Gravimetric
	CAS # 109-99-9.SEC	(Lot 3NYHE)			+/-	247.8002	µg/mL	Unstressed
	Purity 99%				+/-	253.9604	µg/mL	Stressed
19	Cyclohexane		1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	49.6807	µg/mL	Unstressed
	Purity 99%				+/-	50.9153	µg/mL	Stressed
20	1-Butanol		50,012.0	µg/mL	+/-	292.8313	µg/mL	Gravimetric
	CAS # 71-36-3.SEC	(Lot RSHAH)			+/-	2,474.2286	µg/mL	Unstressed
	Purity 99%				+/-	2,535.7406	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		1,009.4	µg/mL	+/-	5.9955	µg/mL	Gravimetric
	CAS # 994-05-8.SEC	(Lot 12075100)			+/-	49.9479	µg/mL	Unstressed
	Purity 98%				+/-	51.1892	µg/mL	Stressed
22	n-Heptane (C7)		1,007.3	µg/mL	+/-	5.9833	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot TFHUC)			+/-	49.8456	µg/mL	Unstressed
	Purity 99%				+/-	51.0844	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		1,004.7	µg/mL	+/-	5.9674	µg/mL	Gravimetric
	CAS # 919-94-8.SEC	(Lot 11370700)			+/-	49.7137	µg/mL	Unstressed
	Purity 99%				+/-	50.9491	µg/mL	Stressed

24	Methylcyclohexane		1,005.3	µg/mL	+/-	5.9714	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot Q02QG)			+/-	49.7467	µg/mL	Unstressed
	Purity 99%				+/-	50.9829	µg/mL	Stressed
25	Methyl methacrylate		1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
	CAS # 80-62-6.SEC	(Lot G01X021)			+/-	49.6807	µg/mL	Unstressed
	Purity 99%				+/-	50.9153	µg/mL	Stressed
26	1,4-Dioxane		25,019.3	µg/mL	+/-	146.4937	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot KLE2K)			+/-	1,237.7740	µg/mL	Unstressed
	Purity 99%				+/-	1,268.5463	µg/mL	Stressed
27	2-Nitropropane		1,010.0	µg/mL	+/-	5.9991	µg/mL	Gravimetric
	CAS # 79-46-9.SEC	(Lot F43IA)			+/-	49.9776	µg/mL	Unstressed
	Purity 99%				+/-	51.2196	µg/mL	Stressed
28	Ethyl methacrylate		1,001.3	µg/mL	+/-	5.9476	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot AQSPO)			+/-	49.5487	µg/mL	Unstressed
	Purity 99%				+/-	50.7801	µg/mL	Stressed
29	1-Chlorohexane		1,000.7	µg/mL	+/-	5.9437	µg/mL	Gravimetric
	CAS # 544-10-5.SEC	(Lot 13075400)			+/-	49.5158	µg/mL	Unstressed
	Purity 99%				+/-	50.7463	µg/mL	Stressed
30	trans-1,4-Dichloro-2-butene		5,014.9	µg/mL	+/-	29.4302	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot RD220126S)			+/-	248.1086	µg/mL	Unstressed
	Purity 97%				+/-	254.2764	µg/mL	Stressed
31	1,2,3-Trimethylbenzene		1,003.5	µg/mL	+/-	5.9606	µg/mL	Gravimetric
	CAS # 526-73-8.SEC	(Lot 11386600)			+/-	49.6569	µg/mL	Unstressed
	Purity 98%				+/-	50.8910	µg/mL	Stressed
32	1,3-Diethylbenzene		1,001.3	µg/mL	+/-	5.9476	µg/mL	Gravimetric
	CAS # 141-93-5.SEC	(Lot 113566-1)			+/-	49.5487	µg/mL	Unstressed
	Purity 99%				+/-	50.7801	µg/mL	Stressed
33	Benzyl chloride		1,001.3	µg/mL	+/-	5.9476	µg/mL	Gravimetric
	CAS # 100-44-7.SEC	(Lot H29N03)			+/-	49.5487	µg/mL	Unstressed
	Purity 99%				+/-	50.7801	µg/mL	Stressed
34	1,4-Diethylbenzene		1,001.6	µg/mL	+/-	5.9490	µg/mL	Gravimetric
	CAS # 105-05-5.SEC	(Lot FBQ02)			+/-	49.5600	µg/mL	Unstressed
	Purity 98%				+/-	50.7916	µg/mL	Stressed
35	1,2-Diethylbenzene		1,002.0	µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 135-01-3.SEC	(Lot BCBF3667V)			+/-	49.5817	µg/mL	Unstressed
	Purity 99%				+/-	50.8139	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		1,009.3	µg/mL	+/-	5.9951	µg/mL	Gravimetric
	CAS # 108-70-3.SEC	(Lot I28U021)			+/-	49.9446	µg/mL	Unstressed
	Purity 99%				+/-	51.1858	µg/mL	Stressed
37	2-Methylnaphthalene		1,002.7	µg/mL	+/-	5.9555	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)			+/-	49.6147	µg/mL	Unstressed
	Purity 99%				+/-	50.8477	µg/mL	Stressed

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

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

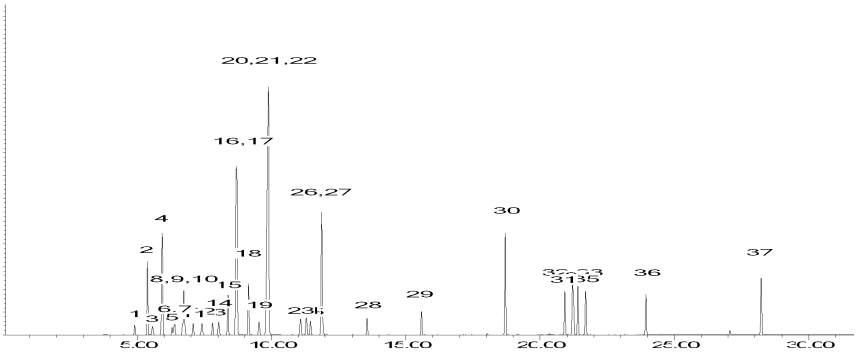
Carrier Gas:
helium-constant pressure 30 psi

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.

Lane Kibe - Mix Technician

Date Mixed: 22-Apr-2022 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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_MegaMIX#1_00107

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577486 **Lot No.:** A0184527

Description : Custom VOC MegaMix® #1 Standard

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

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

Expiration Date : April 30, 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	1,1-dichloroethene	5,048.5 µg/mL	+/- 35.8563 µg/mL	Gravimetric
	CAS # 75-35-4 (Lot SHBK2437)		+/- 283.8125 µg/mL	Unstressed
	Purity 99%		+/- 290.4188 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	5,038.2 µg/mL	+/- 35.7831 µg/mL	Gravimetric
	CAS # 75-09-2 (Lot 218028)		+/- 283.2328 µg/mL	Unstressed
	Purity 99%		+/- 289.8256 µg/mL	Stressed
3	trans-1,2-Dichloroethene	5,048.7 µg/mL	+/- 35.8576 µg/mL	Gravimetric
	CAS # 156-60-5 (Lot MKBH9850V)		+/- 283.8231 µg/mL	Unstressed
	Purity 99%		+/- 290.4296 µg/mL	Stressed
4	1,1-Dichloroethane	5,046.4 µg/mL	+/- 35.8412 µg/mL	Gravimetric
	CAS # 75-34-3 (Lot 580900)		+/- 283.6931 µg/mL	Unstressed
	Purity 99%		+/- 290.2966 µg/mL	Stressed
5	2,2-Dichloropropane	5,049.3 µg/mL	+/- 36.0322 µg/mL	Gravimetric
	CAS # 594-20-7 (Lot RD220222)		+/- 283.8791 µg/mL	Unstressed
	Purity 99%		+/- 290.4859 µg/mL	Stressed
6	cis-1,2-Dichloroethene	5,049.4 µg/mL	+/- 36.0329 µg/mL	Gravimetric
	CAS # 156-59-2 (Lot MKCP7830)		+/- 283.8847 µg/mL	Unstressed
	Purity 99%		+/- 290.4917 µg/mL	Stressed
7	chloroform	5,045.8 µg/mL	+/- 35.8368 µg/mL	Gravimetric
	CAS # 67-66-3 (Lot SHBN8469)		+/- 283.6579 µg/mL	Unstressed
	Purity 99%		+/- 290.2606 µg/mL	Stressed

8	Bromochloromethane		5,049.4	µg/mL	+/-	36.0329	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)			+/-	283.8847	µg/mL	Unstressed
	Purity 99%				+/-	290.4917	µg/mL	Stressed
9	1,1,1-trichloroethane		5,044.1	µg/mL	+/-	35.8248	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot RD220215)			+/-	283.5631	µg/mL	Unstressed
	Purity 99%				+/-	290.1636	µg/mL	Stressed
10	1,1-Dichloropropene		5,042.1	µg/mL	+/-	35.9808	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 220217JLM)			+/-	283.4743	µg/mL	Unstressed
	Purity 99%				+/-	290.0717	µg/mL	Stressed
11	carbon tetrachloride		5,046.6	µg/mL	+/-	35.8430	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBL8097)			+/-	283.7071	µg/mL	Unstressed
	Purity 99%				+/-	290.3110	µg/mL	Stressed
12	1,2-Dichloroethane		5,046.8	µg/mL	+/-	35.8439	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKCN9758)			+/-	283.7142	µg/mL	Unstressed
	Purity 99%				+/-	290.3182	µg/mL	Stressed
13	Benzene		5,048.9	µg/mL	+/-	36.0293	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot MKCM9242)			+/-	283.8566	µg/mL	Unstressed
	Purity 99%				+/-	290.4629	µg/mL	Stressed
14	Trichloroethene		5,049.6	µg/mL	+/-	35.8643	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBL5816)			+/-	283.8758	µg/mL	Unstressed
	Purity 99%				+/-	290.4835	µg/mL	Stressed
15	1,2-Dichloropropane		5,045.3	µg/mL	+/-	35.8337	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	283.6333	µg/mL	Unstressed
	Purity 99%				+/-	290.2355	µg/mL	Stressed
16	bromodichloromethane		5,047.1	µg/mL	+/-	35.8461	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCM7156)			+/-	283.7317	µg/mL	Unstressed
	Purity 99%				+/-	290.3361	µg/mL	Stressed
17	Dibromomethane		5,049.9	µg/mL	+/-	36.0365	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10215970)			+/-	283.9128	µg/mL	Unstressed
	Purity 99%				+/-	290.5204	µg/mL	Stressed
18	cis-1,3-Dichloropropene		5,044.3	µg/mL	+/-	35.8261	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot RD211111)			+/-	283.5736	µg/mL	Unstressed
	Purity 99%				+/-	290.1743	µg/mL	Stressed
19	Toluene		5,048.6	µg/mL	+/-	36.0272	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot MKCQ2779)			+/-	283.8397	µg/mL	Unstressed
	Purity 99%				+/-	290.4456	µg/mL	Stressed
20	trans-1,3-Dichloropropene		5,049.6	µg/mL	+/-	35.8639	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot RD220207A)			+/-	283.8728	µg/mL	Unstressed
	Purity 98%				+/-	290.4805	µg/mL	Stressed
21	1,1,2-Trichloroethane		5,048.6	µg/mL	+/-	35.8567	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	283.8160	µg/mL	Unstressed
	Purity 99%				+/-	290.4224	µg/mL	Stressed
22	1,3-Dichloropropane		5,049.7	µg/mL	+/-	36.0350	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCCB9817)			+/-	283.9016	µg/mL	Unstressed
	Purity 99%				+/-	290.5089	µg/mL	Stressed
23	Tetrachloroethene		5,049.5	µg/mL	+/-	35.8634	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	283.8688	µg/mL	Unstressed
	Purity 99%				+/-	290.4763	µg/mL	Stressed

24	dibromochloromethane		5,048.9	µg/mL	+/-	35.8590	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCM8659)			+/-	283.8336	µg/mL	Unstressed
	Purity 99%				+/-	290.4404	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		5,048.0	µg/mL	+/-	36.0229	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBP2268V)			+/-	283.8060	µg/mL	Unstressed
	Purity 99%				+/-	290.4111	µg/mL	Stressed
26	Chlorobenzene		5,047.7	µg/mL	+/-	35.8505	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBL8110)			+/-	283.7669	µg/mL	Unstressed
	Purity 99%				+/-	290.3721	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		5,049.1	µg/mL	+/-	36.0308	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot GC01)			+/-	283.8678	µg/mL	Unstressed
	Purity 99%				+/-	290.4744	µg/mL	Stressed
28	Ethylbenzene		5,049.7	µg/mL	+/-	36.0350	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBM4308)			+/-	283.9016	µg/mL	Unstressed
	Purity 99%				+/-	290.5089	µg/mL	Stressed
29	m-Xylene		5,048.2	µg/mL	+/-	36.0243	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBM4841)			+/-	283.8172	µg/mL	Unstressed
	Purity 99%				+/-	290.4226	µg/mL	Stressed
30	p-Xylene		5,046.5	µg/mL	+/-	36.0122	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot 10234437)			+/-	283.7216	µg/mL	Unstressed
	Purity 99%				+/-	290.3248	µg/mL	Stressed
31	o-Xylene		5,049.3	µg/mL	+/-	36.0322	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBM0472)			+/-	283.8791	µg/mL	Unstressed
	Purity 99%				+/-	290.4859	µg/mL	Stressed
32	Styrene		5,049.0	µg/mL	+/-	36.0301	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKCP3941)			+/-	283.8622	µg/mL	Unstressed
	Purity 99%				+/-	290.4686	µg/mL	Stressed
33	Isopropylbenzene (cumene)		5,046.5	µg/mL	+/-	36.0122	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot Z20D022)			+/-	283.7216	µg/mL	Unstressed
	Purity 99%				+/-	290.3248	µg/mL	Stressed
34	bromoform		5,045.7	µg/mL	+/-	35.8365	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBK4455)			+/-	283.6559	µg/mL	Unstressed
	Purity 98%				+/-	290.2585	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		5,045.8	µg/mL	+/-	35.8368	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	283.6579	µg/mL	Unstressed
	Purity 99%				+/-	290.2606	µg/mL	Stressed
36	1,2,3-Trichloropropane		5,049.4	µg/mL	+/-	36.0329	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot 332900)			+/-	283.8847	µg/mL	Unstressed
	Purity 99%				+/-	290.4917	µg/mL	Stressed
37	n-Propylbenzene		5,044.7	µg/mL	+/-	35.9994	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKCM4174)			+/-	283.6204	µg/mL	Unstressed
	Purity 99%				+/-	290.2213	µg/mL	Stressed
38	Bromobenzene		5,047.8	µg/mL	+/-	36.0215	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot WXBC5147V)			+/-	283.7947	µg/mL	Unstressed
	Purity 99%				+/-	290.3996	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		5,046.6	µg/mL	+/-	36.0129	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCCD0427)			+/-	283.7273	µg/mL	Unstressed
	Purity 99%				+/-	290.3306	µg/mL	Stressed

40	2-Chlorotoluene		5,049.7	µg/mL	+/-	36.0350	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKCF5243)			+/-	283.9016	µg/mL	Unstressed
	Purity 99%				+/-	290.5089	µg/mL	Stressed
41	4-Chlorotoluene		5,047.7	µg/mL	+/-	36.0208	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKCC8496)			+/-	283.7891	µg/mL	Unstressed
	Purity 99%				+/-	290.3939	µg/mL	Stressed
42	tert-Butylbenzene		5,048.3	µg/mL	+/-	36.0251	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot STBJ1937)			+/-	283.8228	µg/mL	Unstressed
	Purity 99%				+/-	290.4284	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		5,048.0	µg/mL	+/-	36.0228	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot WXBC9428V)			+/-	283.8049	µg/mL	Unstressed
	Purity 98%				+/-	290.4100	µg/mL	Stressed
44	sec-Butylbenzene		5,045.8	µg/mL	+/-	36.0072	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKCN2920)			+/-	283.6823	µg/mL	Unstressed
	Purity 99%				+/-	290.2846	µg/mL	Stressed
45	p-Isopropyltoluene (p-Cymene)		5,048.3	µg/mL	+/-	36.0251	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKCP6638)			+/-	283.8228	µg/mL	Unstressed
	Purity 99%				+/-	290.4284	µg/mL	Stressed
46	1,3-Dichlorobenzene		5,045.8	µg/mL	+/-	35.8368	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBZ7498)			+/-	283.6579	µg/mL	Unstressed
	Purity 99%				+/-	290.2606	µg/mL	Stressed
47	1,4-Dichlorobenzene		5,018.0	µg/mL	+/-	35.6397	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	282.0979	µg/mL	Unstressed
	Purity 99%				+/-	288.6643	µg/mL	Stressed
48	n-Butylbenzene		5,045.6	µg/mL	+/-	36.0058	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09418JJ)			+/-	283.6710	µg/mL	Unstressed
	Purity 99%				+/-	290.2730	µg/mL	Stressed
49	1,2-Dichlorobenzene		5,045.0	µg/mL	+/-	35.8314	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBN3835)			+/-	283.6158	µg/mL	Unstressed
	Purity 99%				+/-	290.2175	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		5,046.4	µg/mL	+/-	36.0117	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot HBMVB)			+/-	283.7174	µg/mL	Unstressed
	Purity 97%				+/-	290.3205	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		5,049.9	µg/mL	+/-	36.0365	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBM0526)			+/-	283.9128	µg/mL	Unstressed
	Purity 99%				+/-	290.5204	µg/mL	Stressed
52	Hexachlorobutadiene		5,043.1	µg/mL	+/-	35.9880	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot X05J)			+/-	283.5305	µg/mL	Unstressed
	Purity 99%				+/-	290.1292	µg/mL	Stressed
53	Naphthalene		5,047.6	µg/mL	+/-	36.0201	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKCH0219)			+/-	283.7835	µg/mL	Unstressed
	Purity 99%				+/-	290.3881	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		5,047.7	µg/mL	+/-	36.0208	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)			+/-	283.7891	µg/mL	Unstressed
	Purity 99%				+/-	290.3939	µg/mL	Stressed

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

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

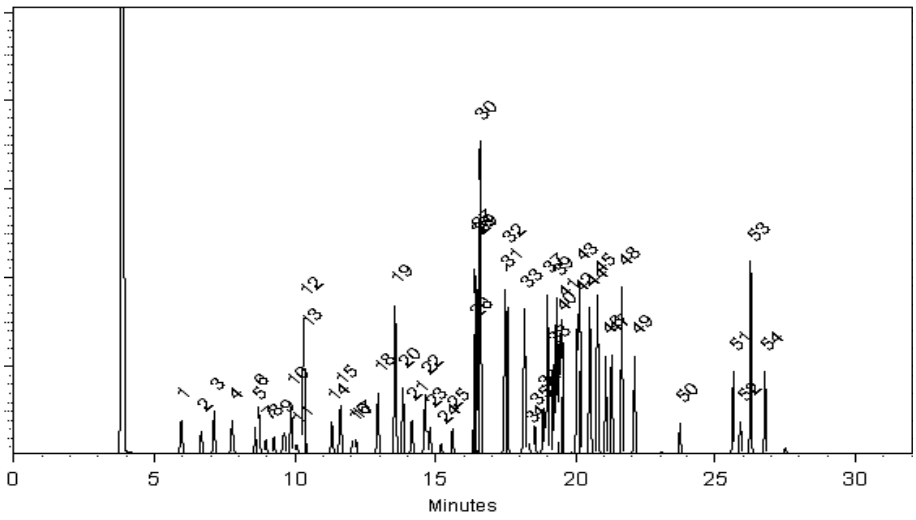
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Bethany Lowery - Operations Tech I

Date Mixed: 26-Apr-2022 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 28-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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_MegaMix#2_00103

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.:** A0173454

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, 2024 **Storage:** 0°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Pentane (C5)	5,000.8 µg/mL	+/- 34.9563 µg/mL	Gravimetric
	CAS # 109-66-0 (Lot SHBM6577)		+/- 248.1404 µg/mL	Unstressed
	Purity 99%		+/- 254.2734 µg/mL	Stressed
2	2-Propanol (isopropanol)	25,000.0 µg/mL	+/- 146.3805 µg/mL	Gravimetric
	CAS # 67-63-0 (Lot SHBH7211)		+/- 1,236.8175 µg/mL	Unstressed
	Purity 99%		+/- 1,267.5661 µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	5,000.0 µg/mL	+/- 34.9505 µg/mL	Gravimetric
	CAS # 76-13-1 (Lot 00016133)		+/- 248.0991 µg/mL	Unstressed
	Purity 99%		+/- 254.2310 µg/mL	Stressed
4	tert-Butanol (TBA)	25,010.0 µg/mL	+/- 146.4390 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot SHBM7694)		+/- 1,237.3122 µg/mL	Unstressed
	Purity 99%		+/- 1,268.0731 µg/mL	Stressed
5	Methyl acetate	5,000.2 µg/mL	+/- 34.9516 µg/mL	Gravimetric
	CAS # 79-20-9 (Lot SHBM1320)		+/- 248.1073 µg/mL	Unstressed
	Purity 99%		+/- 254.2395 µg/mL	Stressed
6	Iodomethane (methyl iodide)	5,001.7 µg/mL	+/- 34.9621 µg/mL	Gravimetric
	CAS # 74-88-4 (Lot RD210503)		+/- 248.1818 µg/mL	Unstressed
	Purity 99%		+/- 254.3157 µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	5,000.7 µg/mL	+/- 34.9551 µg/mL	Gravimetric
	CAS # 107-05-1 (Lot RD210402)		+/- 248.1321 µg/mL	Unstressed
	Purity 99%		+/- 254.2649 µg/mL	Stressed

8	Carbon disulfide		5,004.2	µg/mL	+/-	34.9796	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot N28F701)			+/-	248.3058	µg/mL	Unstressed
	Purity 99%				+/-	254.4428	µg/mL	Stressed
9	Acrylonitrile		12,506.0	µg/mL	+/-	73.2254	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot M25F024)			+/-	618.7056	µg/mL	Unstressed
	Purity 99%				+/-	634.0873	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBM3541)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
11	n-Hexane (C6)		5,000.5	µg/mL	+/-	34.9540	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL9879)			+/-	248.1239	µg/mL	Unstressed
	Purity 99%				+/-	254.2564	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		5,003.3	µg/mL	+/-	34.9738	µg/mL	Gravimetric
	CAS # 108-20-3	(Lot SHBH1927V)			+/-	248.2645	µg/mL	Unstressed
	Purity 99%				+/-	254.4005	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		5,001.2	µg/mL	+/-	34.9586	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210413JLM)			+/-	248.1570	µg/mL	Unstressed
	Purity 99%				+/-	254.2903	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKCM3774)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
15	Propionitrile		25,006.7	µg/mL	+/-	146.4195	µg/mL	Gravimetric
	CAS # 107-12-0	(Lot BCCC1173)			+/-	1,237.1473	µg/mL	Unstressed
	Purity 99%				+/-	1,267.9041	µg/mL	Stressed
16	Methacrylonitrile		12,500.7	µg/mL	+/-	73.1942	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012020)			+/-	618.4417	µg/mL	Unstressed
	Purity 99%				+/-	633.8168	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,500.7	µg/mL	+/-	365.9551	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBM4836)			+/-	3,092.0767	µg/mL	Unstressed
	Purity 99%				+/-	3,168.9490	µg/mL	Stressed
18	Tetrahydrofuran		25,010.0	µg/mL	+/-	146.4390	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBM8962)			+/-	1,237.3122	µg/mL	Unstressed
	Purity 99%				+/-	1,268.0731	µg/mL	Stressed
19	Cyclohexane		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKCF5831)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
20	1-Butanol		62,504.0	µg/mL	+/-	365.9747	µg/mL	Gravimetric
	CAS # 71-36-3	(Lot SHBM5061)			+/-	3,092.2416	µg/mL	Unstressed
	Purity 99%				+/-	3,169.1180	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		5,001.7	µg/mL	+/-	34.9621	µg/mL	Gravimetric
	CAS # 994-05-8	(Lot HMBG7745V)			+/-	248.1818	µg/mL	Unstressed
	Purity 99%				+/-	254.3157	µg/mL	Stressed
22	n-Heptane (C7)		5,002.3	µg/mL	+/-	34.9668	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SHBL9221)			+/-	248.2148	µg/mL	Unstressed
	Purity 99%				+/-	254.3496	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 919-94-8	(Lot 76U3A)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed

24	Methylcyclohexane		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBL0078)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed
25	Methyl methacrylate		5,001.0	µg/mL	+/-	34.9574	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot MKCN3027)			+/-	248.1487	µg/mL	Unstressed
	Purity 99%				+/-	254.2818	µg/mL	Stressed
26	1,4-Dioxane		62,503.3	µg/mL	+/-	365.9708	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBM5092)			+/-	3,092.2086	µg/mL	Unstressed
	Purity 99%				+/-	3,169.0842	µg/mL	Stressed
27	2-Nitropropane		25,000.8	µg/mL	+/-	146.3851	µg/mL	Gravimetric
	CAS # 79-46-9	(Lot BCCB9352)			+/-	1,236.8561	µg/mL	Unstressed
	Purity 97%				+/-	1,267.6056	µg/mL	Stressed
28	Ethyl methacrylate		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot MKCL0907)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
29	1-Chlorohexane		5,000.0	µg/mL	+/-	34.9502	µg/mL	Gravimetric
	CAS # 544-10-5	(Lot BCBS3368V)			+/-	248.0971	µg/mL	Unstressed
	Purity 98%				+/-	254.2290	µg/mL	Stressed
30	trans-1,4-dichloro-2-butene		12,510.9	µg/mL	+/-	73.2539	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot RD210617)			+/-	618.9463	µg/mL	Unstressed
	Purity 95%				+/-	634.3340	µg/mL	Stressed
31	1,2,3-Trimethylbenzene		5,000.0	µg/mL	+/-	34.9502	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 8776.10-36)			+/-	248.0971	µg/mL	Unstressed
	Purity 98%				+/-	254.2290	µg/mL	Stressed
32	1,3-Diethylbenzene		5,000.9	µg/mL	+/-	34.9570	µg/mL	Gravimetric
	CAS # 141-93-5	(Lot BCBT8967)			+/-	248.1457	µg/mL	Unstressed
	Purity 98%				+/-	254.2788	µg/mL	Stressed
33	Benzyl chloride		5,000.8	µg/mL	+/-	34.9563	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBH2102V)			+/-	248.1404	µg/mL	Unstressed
	Purity 99%				+/-	254.2734	µg/mL	Stressed
34	1,4-Diethylbenzene		5,001.4	µg/mL	+/-	34.9605	µg/mL	Gravimetric
	CAS # 105-05-5	(Lot RLHJK)			+/-	248.1700	µg/mL	Unstressed
	Purity 98%				+/-	254.3037	µg/mL	Stressed
35	1,2-Diethylbenzene		5,000.5	µg/mL	+/-	34.9540	µg/mL	Gravimetric
	CAS # 135-01-3	(Lot ECH2970181)			+/-	248.1239	µg/mL	Unstressed
	Purity 99%				+/-	254.2564	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		5,000.2	µg/mL	+/-	34.9516	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/-	248.1073	µg/mL	Unstressed
	Purity 99%				+/-	254.2395	µg/mL	Stressed
37	2-Methylnaphthalene		5,001.0	µg/mL	+/-	34.9574	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot STBG8884)			+/-	248.1487	µg/mL	Unstressed
	Purity 99%				+/-	254.2818	µg/mL	Stressed

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

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

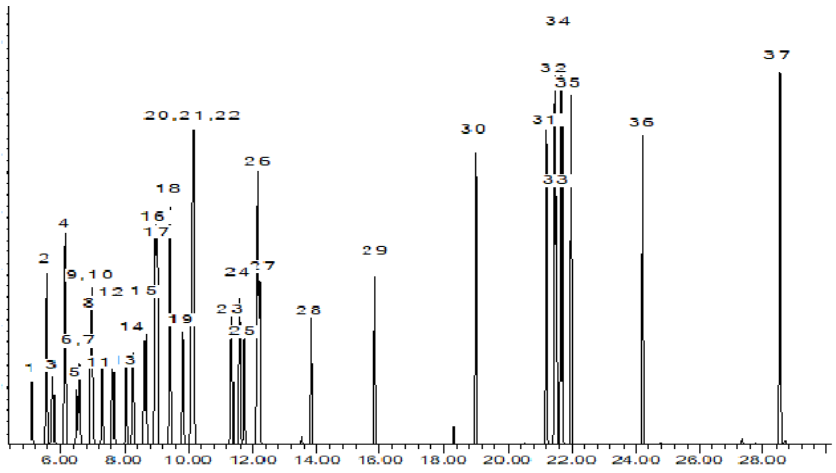
Carrier Gas:
helium-constant pressure 30 psi

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.

Russ Bookhamer - Operations Technician I

Date Mixed: 16-Jun-2021 **Balance:** B707717271

Alexis Shelow - Operations Tech I

Date Passed: 30-Jun-2021

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:

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

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_Q_Ketones_00109

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721.SEC **Lot No.:** A0184721

Description : 8260 List 1/ Std #2 Ketones (2015)

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

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

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

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,520.4 µg/mL	+/- 73.3097 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot T20G008)		+/- 755.4610 µg/mL	Unstressed
	Purity 99%		+/- 757.2544 µg/mL	Stressed
2	2-Butanone (MEK)	12,520.8 µg/mL	+/- 73.3120 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot HDLUO)		+/- 755.4852 µg/mL	Unstressed
	Purity 99%		+/- 757.2786 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,514.8 µg/mL	+/- 73.2769 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 755.1231 µg/mL	Unstressed
	Purity 99%		+/- 756.9157 µg/mL	Stressed
4	2-Hexanone	12,514.0 µg/mL	+/- 73.2722 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 755.0749 µg/mL	Unstressed
	Purity 99%		+/- 756.8673 µg/mL	Stressed

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

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

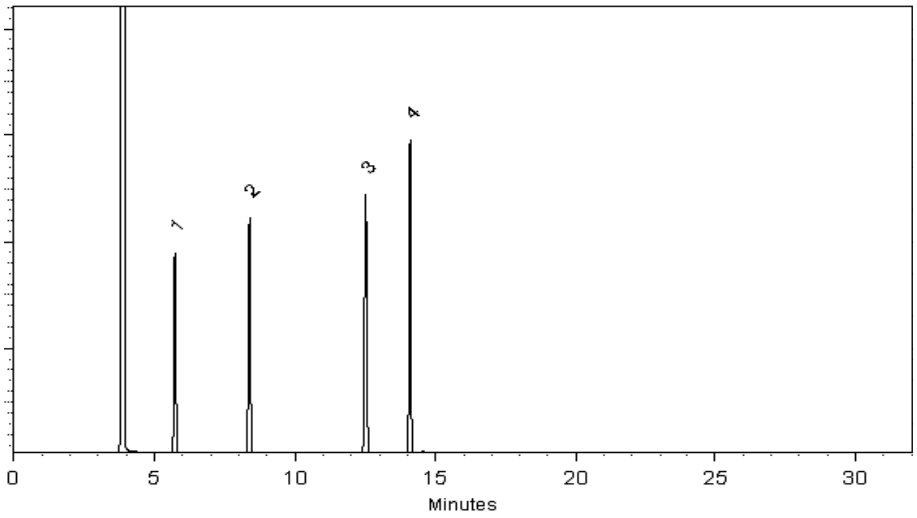
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Jess Hoy - Operations Tech I

Date Mixed: 29-Apr-2022 **Balance:** B345965662

Christie Mills - Operations Technician II

Date Passed: 03-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:

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

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_Q_Ketones_00112

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721.SEC **Lot No.:** A0184721

Description : 8260 List 1/ Std #2 Ketones (2015)

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

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

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

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,520.4 µg/mL	+/- 73.3097 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot T20G008)		+/- 755.4610 µg/mL	Unstressed
	Purity 99%		+/- 757.2544 µg/mL	Stressed
2	2-Butanone (MEK)	12,520.8 µg/mL	+/- 73.3120 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot HDLUO)		+/- 755.4852 µg/mL	Unstressed
	Purity 99%		+/- 757.2786 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,514.8 µg/mL	+/- 73.2769 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 755.1231 µg/mL	Unstressed
	Purity 99%		+/- 756.9157 µg/mL	Stressed
4	2-Hexanone	12,514.0 µg/mL	+/- 73.2722 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 755.0749 µg/mL	Unstressed
	Purity 99%		+/- 756.8673 µg/mL	Stressed

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

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

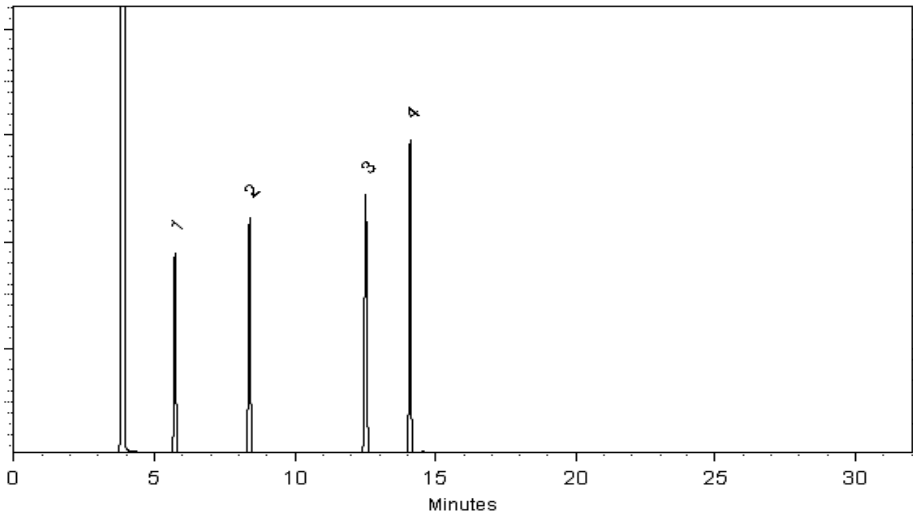
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Jess Hoy - Operations Tech I

Date Mixed: 29-Apr-2022 **Balance:** B345965662

Christie Mills - Operations Technician II

Date Passed: 03-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:

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

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

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

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

C E R T I F I E D V A L U E S

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

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

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

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

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

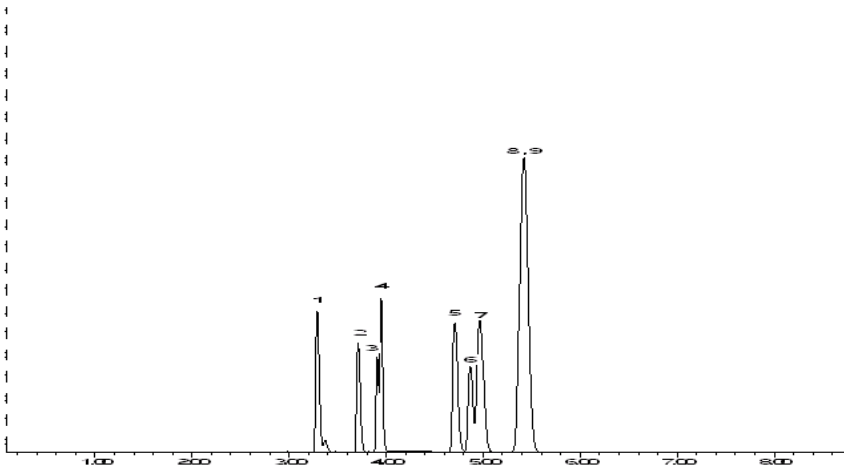
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Brandon Reish - Mix Technician

Date Mixed: 05-May-2022 **Balance:** 1127510105

Marlina Cowan - Operations Tech I

Date Passed: 10-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- 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:

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

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- 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
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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:

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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

C E R T I F I E D V A L U E S

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

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

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

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

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

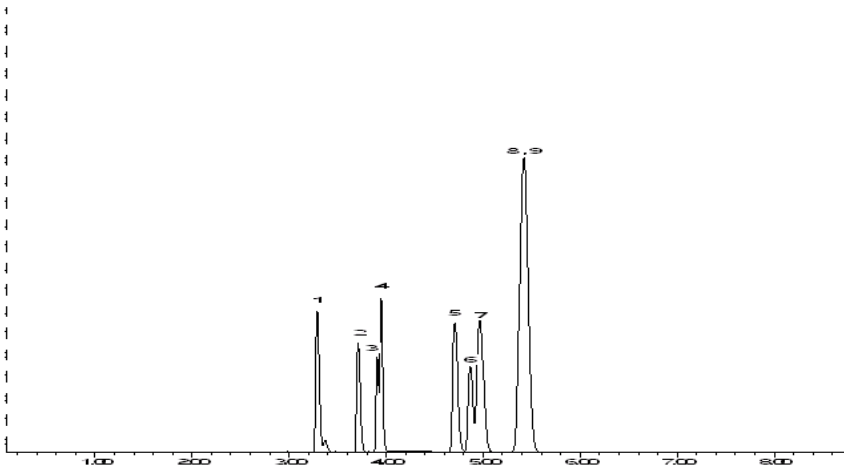
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Brandon Reish - Mix Technician

Date Mixed: 05-May-2022 **Balance:** 1127510105

Marlina Cowan - Operations Tech I

Date Passed: 10-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- 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:

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

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- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_Ketones_00107

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721 **Lot No.:** A0180742

Description : 8260 List 1/ Std #2 Ketones (2015)

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

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

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

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,524.0 µg/mL	+/- 73.3308 µg/mL	Gravimetric
	CAS # 67-64-1 (Lot MKCP0755)		+/- 755.6782 µg/mL	Unstressed
	Purity 99%		+/- 757.4721 µg/mL	Stressed
2	2-Butanone (MEK)	12,529.5 µg/mL	+/- 73.3630 µg/mL	Gravimetric
	CAS # 78-93-3 (Lot SHBN2844)		+/- 756.0101 µg/mL	Unstressed
	Purity 99%		+/- 757.8048 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,541.5 µg/mL	+/- 73.4332 µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBN3601)		+/- 756.7342 µg/mL	Unstressed
	Purity 99%		+/- 758.5305 µg/mL	Stressed
4	2-Hexanone	12,548.0 µg/mL	+/- 73.4713 µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKCL1599)		+/- 757.1264 µg/mL	Unstressed
	Purity 99%		+/- 758.9237 µg/mL	Stressed

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

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

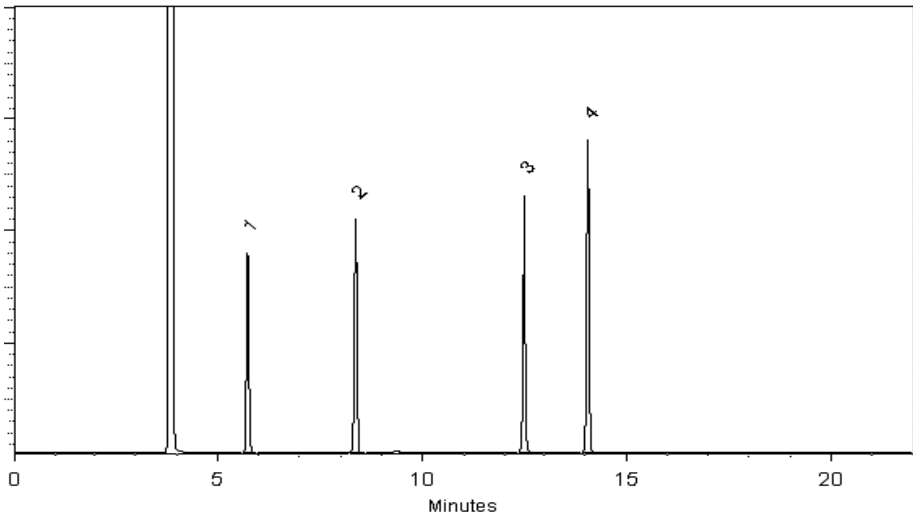
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Penelope Riglin - Operations Tech I

Date Mixed: 18-Jan-2022 **Balance:** B707717271

Marlina Cowan - Operations Tech I

Date Passed: 20-Jan-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:

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

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25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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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

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CERTIFIED REFERENCE MATERIAL

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Certificate #3222.02

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

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

Description : Custom Pentachloroethane Standard

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

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

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

Ship: Ambient

C E R T I F I E D V A L U E S

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

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

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

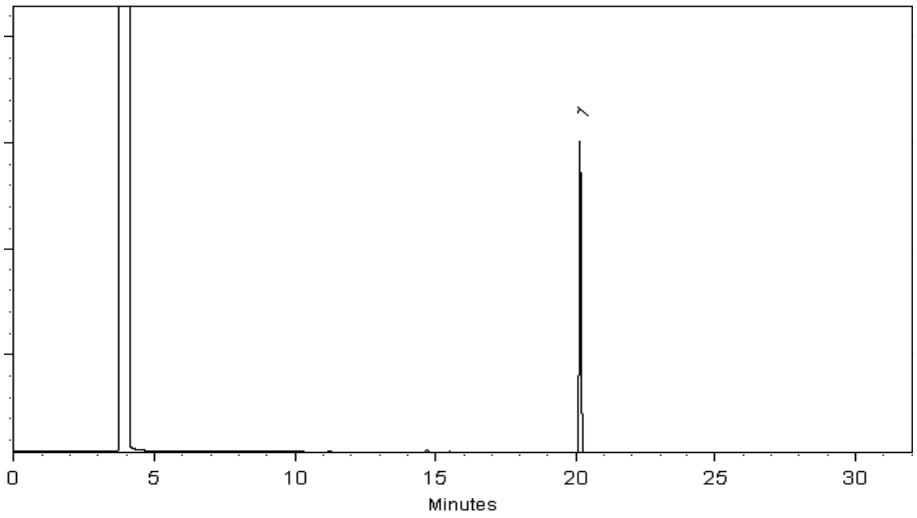
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Nick Yaw - Operations Tech I

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

Christie Mills - Operations Technician II

Date Passed: 20-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Method 8260D Low Level

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-113568-1

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	410-113568-1	103	106	99	98
HD-COD-SW-7-0/1-0	410-113568-2	103	104	100	98
HD-COD-SW-8-0/1-0	410-113568-3	104	106	99	98
HD-COD-SW-9-0/1-0	410-113568-4	103	105	99	98
HD-COD-SW-13-0/1-0	410-113568-5	103	106	99	98
HD-COD-SW-15-0/1-0	410-113568-6	104	103	98	97
HD-COD-SW-16-0/1-0	410-113568-7	102	105	99	98
HD-COD-SW-17-0/1-0	410-113568-8	103	105	96	97
HD-COD-SW-17-0/1-0 DL	410-113568-8 DL	102	101	98	100
HD-COD-SW-26-0/1-0	410-113568-9	103	104	99	98
HD-COD-SW-27-0/1-0	410-113568-10	103	105	99	98
HD-COD-SW-28-0/1-0	410-113568-11	103	106	99	97
HD-COD-SW-29-0/1-0	410-113568-12	103	102	99	99
HD-QC1-0/1-1	410-113568-13	102	104	97	97
HD-QC1-0/1-1 DL	410-113568-13 DL	100	101	98	100
HD-QC1-0/1-2	410-113568-14	103	110	99	99
	MB 410-340101/6	101	105	99	99
	MB 410-340956/8	102	105	98	99
	LCS 410-340101/4	102	101	101	101
	LCS 410-340956/5	102	103	100	100
HD-COD-SW-15-0/1-0 MS MS	410-113568-6 MS	102	101	100	100
HD-COD-SW-15-0/1-0 MSD MSD	410-113568-6 MSD	103	103	100	102

	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 II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-113568-1

SDG No.:

Matrix: Water Level: Low Lab File ID: GJ31X03.D

Lab ID: LCS 410-340101/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	4.91	98	71-134	
1,1,1-Trichloroethane	5.00	4.79	96	78-126	
1,1,2,2-Tetrachloroethane	5.00	4.83	97	75-123	
1,1,2-Trichloroethane	5.00	4.67	93	80-120	
1,1-Dichloroethane	5.00	4.63	93	74-120	
1,1-Dichloroethene	5.00	4.61	92	80-131	
1,2-Dibromoethane (EDB)	5.00	4.84	97	80-120	
1,2-Dichloroethane	5.00	4.56	91	69-122	
1,2-Dichloropropane	5.00	4.79	96	80-120	
2-Butanone (MEK)	62.5	60.4	97	59-141	
2-Hexanone	62.5	57.8	92	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	57.7	92	55-140	
Acetone	62.5	60.0	96	60-146	
Benzene	5.00	4.77	95	80-120	
Bromochloromethane	5.00	4.92	98	80-120	
Bromodichloromethane	5.00	4.83	97	73-124	
Bromoform	5.00	4.78	96	49-144	
Bromomethane	5.00	4.28	86	60-136	
Carbon disulfide	5.00	5.16	103	67-130	
Carbon tetrachloride	5.00	4.72	94	64-141	
Chlorobenzene	5.00	4.60	92	80-120	
Chloroethane	5.00	4.31	86	63-120	
Chloroform	5.00	4.73	95	80-120	
Chloromethane	5.00	4.14	83	56-124	
cis-1,2-Dichloroethene	5.00	4.74	95	80-122	
cis-1,3-Dichloropropene	5.00	4.75	95	67-121	
Dibromochloromethane	5.00	4.85	97	64-138	
Ethylbenzene	5.00	4.81	96	80-120	
Methyl tert-butyl ether	5.00	5.04	101	69-120	
Methylene Chloride	5.00	4.71	94	80-120	
Styrene	5.00	5.03	101	80-120	
Tetrachloroethene	5.00	4.64	93	80-120	
Toluene	5.00	4.71	94	80-120	
trans-1,2-Dichloroethene	5.00	4.57	91	80-122	
trans-1,3-Dichloropropene	5.00	4.85	97	61-129	
Trichloroethene	5.00	4.58	92	80-120	
Vinyl chloride	5.00	4.17	83	60-125	
Xylenes, Total	15.0	14.6	97	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-113568-1

SDG No.:

Matrix: Water Level: Low Lab File ID: GF02X04.D

Lab ID: LCS 410-340956/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	4.94	99	71-134	
1,1,1-Trichloroethane	5.00	4.76	95	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.11	102	75-123	
1,1,2-Trichloroethane	5.00	4.89	98	80-120	
1,1-Dichloroethane	5.00	4.75	95	74-120	
1,1-Dichloroethene	5.00	4.47	89	80-131	
1,2-Dibromoethane (EDB)	5.00	4.94	99	80-120	
1,2-Dichloroethane	5.00	4.78	96	69-122	
1,2-Dichloropropane	5.00	4.97	99	80-120	
2-Butanone (MEK)	62.5	63.6	102	59-141	
2-Hexanone	62.5	62.2	99	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	60.1	96	55-140	
Acetone	62.5	64.3	103	60-146	
Benzene	5.00	4.82	96	80-120	
Bromochloromethane	5.00	5.03	101	80-120	
Bromodichloromethane	5.00	5.01	100	73-124	
Bromoform	5.00	4.72	94	49-144	
Bromomethane	5.00	4.30	86	60-136	
Carbon disulfide	5.00	5.09	102	67-130	
Carbon tetrachloride	5.00	4.76	95	64-141	
Chlorobenzene	5.00	4.65	93	80-120	
Chloroethane	5.00	4.29	86	63-120	
Chloroform	5.00	4.83	97	80-120	
Chloromethane	5.00	4.14	83	56-124	
cis-1,2-Dichloroethene	5.00	4.85	97	80-122	
cis-1,3-Dichloropropene	5.00	4.81	96	67-121	
Dibromochloromethane	5.00	4.88	98	64-138	
Ethylbenzene	5.00	4.81	96	80-120	
Methyl tert-butyl ether	5.00	5.09	102	69-120	
Methylene Chloride	5.00	4.76	95	80-120	
Styrene	5.00	5.14	103	80-120	
Tetrachloroethene	5.00	4.58	92	80-120	
Toluene	5.00	4.69	94	80-120	
trans-1,2-Dichloroethene	5.00	4.61	92	80-122	
trans-1,3-Dichloropropene	5.00	4.90	98	61-129	
Trichloroethene	5.00	4.66	93	80-120	
Vinyl chloride	5.00	4.07	81	60-125	
Xylenes, Total	15.0	14.8	98	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-113568-1

SDG No.:

Matrix: Water Level: Low Lab File ID: GJ31X14.D

Lab ID: 410-113568-6 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	5.30	106	71-134	
1,1,1-Trichloroethane	5.00	0.37 J	5.81	109	78-126	
1,1,2,2-Tetrachloroethane	5.00	ND	5.17	103	75-123	
1,1,2-Trichloroethane	5.00	ND	5.07	101	80-120	
1,1-Dichloroethane	5.00	0.14 J	5.33	104	74-120	
1,1-Dichloroethene	5.00	0.19 J	5.44	105	80-131	
1,2-Dibromoethane (EDB)	5.00	ND	5.21	104	80-120	
1,2-Dichloroethane	5.00	ND	5.26	105	69-122	
1,2-Dichloropropane	5.00	ND	5.31	106	80-120	
2-Butanone (MEK)	62.6	ND	61.8	99	59-141	
2-Hexanone	62.6	ND	60.2	96	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	ND	59.4	95	55-140	
Acetone	62.6	1.1 J	64.3	101	60-146	
Benzene	5.00	ND	5.32	106	80-120	
Bromochloromethane	5.00	ND	5.35	107	80-120	
Bromodichloromethane	5.00	ND	5.31	106	73-124	
Bromoform	5.00	ND	4.87	97	49-144	
Bromomethane	5.00	ND	4.72	94	60-136	
Carbon disulfide	5.00	ND	5.87	117	67-130	
Carbon tetrachloride	5.00	ND	5.49	110	64-141	
Chlorobenzene	5.00	ND	5.04	101	80-120	
Chloroethane	5.00	ND	4.81	96	63-120	
Chloroform	5.00	0.27 J	5.54	105	80-120	
Chloromethane	5.00	ND	4.57	91	80-120	
cis-1,2-Dichloroethene	5.00	2.3	7.62	107	80-122	
cis-1,3-Dichloropropene	5.00	ND	5.11	102	67-121	
Dibromochloromethane	5.00	ND	5.07	101	64-138	
Ethylbenzene	5.00	ND	5.34	107	80-120	
Methyl tert-butyl ether	5.00	ND	5.38	107	69-120	
Methylene Chloride	5.00	ND	5.19	104	80-120	
Styrene	5.00	ND	5.50	110	80-120	
Tetrachloroethene	5.00	5.5	10.7	104	80-120	
Toluene	5.00	ND	5.18	104	80-120	
trans-1,2-Dichloroethene	5.00	ND	5.22	104	80-122	
trans-1,3-Dichloropropene	5.00	ND	5.01	100	61-129	
Trichloroethene	5.00	1.8	7.04	105	80-120	
Vinyl chloride	5.00	ND	4.76	95	60-125	
Xylenes, Total	15.0	ND	16.1	107	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-113568-1

SDG No.:

Matrix: Water Level: Low Lab File ID: GJ31X15.D

Lab ID: 410-113568-6 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	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.21	104	2	30	71-134	
1,1,1-Trichloroethane	5.00	5.78	108	1	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.20	104	1	30	75-123	
1,1,2-Trichloroethane	5.00	5.03	100	1	30	80-120	
1,1-Dichloroethane	5.00	5.28	103	1	30	74-120	
1,1-Dichloroethene	5.00	5.41	104	0	30	80-131	
1,2-Dibromoethane (EDB)	5.00	5.18	104	0	30	80-120	
1,2-Dichloroethane	5.00	4.98	100	5	30	69-122	
1,2-Dichloropropane	5.00	5.30	106	0	30	80-120	
2-Butanone (MEK)	62.6	58.1	93	6	30	59-141	
2-Hexanone	62.6	55.7	89	8	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	55.5	89	7	30	55-140	
Acetone	62.6	59.5	93	8	30	60-146	
Benzene	5.00	5.30	106	0	30	80-120	
Bromochloromethane	5.00	5.34	107	0	30	80-120	
Bromodichloromethane	5.00	5.26	105	1	30	73-124	
Bromoform	5.00	4.81	96	1	30	49-144	
Bromomethane	5.00	4.84	97	3	30	60-136	
Carbon disulfide	5.00	5.77	115	2	30	67-130	
Carbon tetrachloride	5.00	5.48	110	0	30	64-141	
Chlorobenzene	5.00	5.04	101	0	30	80-120	
Chloroethane	5.00	5.05	101	5	30	63-120	
Chloroform	5.00	5.48	104	1	30	80-120	
Chloromethane	5.00	4.85	97	6	30	80-120	
cis-1,2-Dichloroethene	5.00	7.63	107	0	30	80-122	
cis-1,3-Dichloropropene	5.00	5.13	102	0	30	67-121	
Dibromochloromethane	5.00	5.07	101	0	30	64-138	
Ethylbenzene	5.00	5.28	105	1	30	80-120	
Methyl tert-butyl ether	5.00	5.37	107	0	30	69-120	
Methylene Chloride	5.00	5.13	103	1	30	80-120	
Styrene	5.00	5.48	109	0	30	80-120	
Tetrachloroethene	5.00	10.8	105	1	30	80-120	
Toluene	5.00	5.21	104	1	30	80-120	
trans-1,2-Dichloroethene	5.00	5.16	103	1	30	80-122	
trans-1,3-Dichloropropene	5.00	5.07	101	1	30	61-129	
Trichloroethene	5.00	7.00	104	1	30	80-120	
Vinyl chloride	5.00	4.89	98	3	30	60-125	
Xylenes, Total	15.0	16.1	107	0	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-113568-1

SDG No.:

Lab File ID: GJ31X05.D Lab Sample ID: MB 410-340101/6

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

Instrument ID: 16334 Date Analyzed: 01/31/2023 11:56

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 410-340101/4	GJ31X03.D	01/31/2023 11:12
HD-QC1-0/1-1	410-113568-13	GJ31X06.D	01/31/2023 12:18
HD-QC1-0/1-2	410-113568-14	GJ31X07.D	01/31/2023 12:40
HD-COD-SW-6-0/1-0	410-113568-1	GJ31X08.D	01/31/2023 13:02
HD-COD-SW-7-0/1-0	410-113568-2	GJ31X09.D	01/31/2023 13:24
HD-COD-SW-8-0/1-0	410-113568-3	GJ31X10.D	01/31/2023 13:46
HD-COD-SW-9-0/1-0	410-113568-4	GJ31X11.D	01/31/2023 14:09
HD-COD-SW-13-0/1-0	410-113568-5	GJ31X12.D	01/31/2023 14:31
HD-COD-SW-15-0/1-0	410-113568-6	GJ31X13.D	01/31/2023 14:53
HD-COD-SW-15-0/1-0 MS MS	410-113568-6 MS	GJ31X14.D	01/31/2023 15:15
HD-COD-SW-15-0/1-0 MSD MSD	410-113568-6 MSD	GJ31X15.D	01/31/2023 15:38
HD-COD-SW-16-0/1-0	410-113568-7	GJ31X16.D	01/31/2023 16:00
HD-COD-SW-17-0/1-0	410-113568-8	GJ31X17.D	01/31/2023 16:21
HD-COD-SW-26-0/1-0	410-113568-9	GJ31X18.D	01/31/2023 16:43
HD-COD-SW-27-0/1-0	410-113568-10	GJ31X19.D	01/31/2023 17:05
HD-COD-SW-28-0/1-0	410-113568-11	GJ31X20.D	01/31/2023 17:26
HD-COD-SW-29-0/1-0	410-113568-12	GJ31X21.D	01/31/2023 17:48

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-113568-1

SDG No.:

Lab File ID: GF02X07.D Lab Sample ID: MB 410-340956/8

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

Instrument ID: 16334 Date Analyzed: 02/02/2023 12:44

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 410-340956/5	GF02X04.D	02/02/2023 11:37
HD-COD-SW-17-0/1-0 DL	410-113568-8 DL	GF02X28.D	02/02/2023 20:27
HD-QC1-0/1-1 DL	410-113568-13 DL	GF02X29.D	02/02/2023 20:49

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

Lab Name: Eurofins Lancaster Laboratories Env: Job No.: 410-113568-1

SDG No.:

Lab File ID: JD18T01.D BFB Injection Date: 01/18/2023

Instrument ID: 16334 BFB Injection Time: 09:58

Analysis Batch No.: 336478

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.6	
75	30.0 - 60.0 % of mass 95	47.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	84.5	
175	5.0 - 9.0 % of mass 174	6.9	(8.2) 1
176	95.0 - 101.0 % of mass 174	82.7	(97.9) 1
177	5.0 - 9.0 % of mass 176	5.7	(6.9) 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 410-336478/3	JD18X02.D	01/18/2023	10:40
	IC 410-336478/4	JD18X03.D	01/18/2023	11:02
	IC 410-336478/5	JD18X04.D	01/18/2023	11:24
	IC 410-336478/6	JD18X05.D	01/18/2023	11:46
	IC 410-336478/7	JD18X06.D	01/18/2023	12:09
	ICIS 410-336478/8	JD18X07.D	01/18/2023	12:31
	IC 410-336478/9	JD18X08.D	01/18/2023	12:53
	ICV 410-336478/11	JD18X10.D	01/18/2023	13:37

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

Lab Name: Eurofins Lancaster Laboratories Env: Job No.: 410-113568-1

SDG No.:

Lab File ID: GJ31T01.D BFB Injection Date: 01/31/2023

Instrument ID: 16334 BFB Injection Time: 10:15

Analysis Batch No.: 340101

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.4	
75	30.0 - 60.0 % of mass 95	48.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	81.0	
175	5.0 - 9.0 % of mass 174	6.4	(7.8) 1
176	95.0 - 101.0 % of mass 174	79.5	(98.2) 1
177	5.0 - 9.0 % of mass 176	5.6	(7.0) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-340101/3	GJ31X02.D	01/31/2023	10:50
	LCS 410-340101/4	GJ31X03.D	01/31/2023	11:12
	MB 410-340101/6	GJ31X05.D	01/31/2023	11:56
HD-QC1-0/1-1	410-113568-13	GJ31X06.D	01/31/2023	12:18
HD-QC1-0/1-2	410-113568-14	GJ31X07.D	01/31/2023	12:40
HD-COD-SW-6-0/1-0	410-113568-1	GJ31X08.D	01/31/2023	13:02
HD-COD-SW-7-0/1-0	410-113568-2	GJ31X09.D	01/31/2023	13:24
HD-COD-SW-8-0/1-0	410-113568-3	GJ31X10.D	01/31/2023	13:46
HD-COD-SW-9-0/1-0	410-113568-4	GJ31X11.D	01/31/2023	14:09
HD-COD-SW-13-0/1-0	410-113568-5	GJ31X12.D	01/31/2023	14:31
HD-COD-SW-15-0/1-0	410-113568-6	GJ31X13.D	01/31/2023	14:53
HD-COD-SW-15-0/1-0 MS MS	410-113568-6 MS	GJ31X14.D	01/31/2023	15:15
HD-COD-SW-15-0/1-0 MSD MSD	410-113568-6 MSD	GJ31X15.D	01/31/2023	15:38
HD-COD-SW-16-0/1-0	410-113568-7	GJ31X16.D	01/31/2023	16:00
HD-COD-SW-17-0/1-0	410-113568-8	GJ31X17.D	01/31/2023	16:21
HD-COD-SW-26-0/1-0	410-113568-9	GJ31X18.D	01/31/2023	16:43
HD-COD-SW-27-0/1-0	410-113568-10	GJ31X19.D	01/31/2023	17:05
HD-COD-SW-28-0/1-0	410-113568-11	GJ31X20.D	01/31/2023	17:26
HD-COD-SW-29-0/1-0	410-113568-12	GJ31X21.D	01/31/2023	17:48

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

Lab Name: Eurofins Lancaster Laboratories Env: Job No.: 410-113568-1

SDG No.:

Lab File ID: GF02T01.D BFB Injection Date: 02/02/2023

Instrument ID: 16334 BFB Injection Time: 10:14

Analysis Batch No.: 340956

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.7	
75	30.0 - 60.0 % of mass 95	49.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	82.8	
175	5.0 - 9.0 % of mass 174	6.3	(7.7) 1
176	95.0 - 101.0 % of mass 174	80.5	(97.2) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.4) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-340956/3	GF02X02.D	02/02/2023	10:53
	LCS 410-340956/5	GF02X04.D	02/02/2023	11:37
	MB 410-340956/8	GF02X07.D	02/02/2023	12:44
HD-COD-SW-17-0/1-0 DL	410-113568-8 DL	GF02X28.D	02/02/2023	20:27
HD-QC1-0/1-1 DL	410-113568-13 DL	GF02X29.D	02/02/2023	20:49

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-113568-1

SDG No.:

Sample No.: ICIS 410-336478/8 Date Analyzed: 01/18/2023 12:31

Instrument ID: 16334 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): JD18X07.D Heated Purge: (Y/N) N

Calibration ID: 46382

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		179954	4.10	3141631	7.57	2381599	11.07
UPPER LIMIT		359908	4.60	6283262	8.07	4763198	11.57
LOWER LIMIT		89977	3.60	1570816	7.07	1190800	10.57
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-336478/11		177850	4.09	3162130	7.57	2387435	11.07
CCVIS 410-340101/3		224047	4.07	2939273	7.56	2255600	11.07
CCVIS 410-340956/3		200490	4.07	3021152	7.57	2304713	11.06

TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
CBZd5 = Chlorobenzene-d5 (IS)

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-113568-1

SDG No.:

Sample No.: ICIS 410-336478/8 Date Analyzed: 01/18/2023 12:31

Instrument ID: 16334 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): JD18X07.D Heated Purge: (Y/N) N

Calibration ID: 46382

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		1400357	12.94				
UPPER LIMIT		2800714	13.44				
LOWER LIMIT		700179	12.44				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-336478/11		1384764	12.94				
CCVIS 410-340101/3		1326974	12.94				
CCVIS 410-340956/3		1360710	12.94				

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-113568-1

SDG No.:

Sample No.: CCVIS 410-340101/3 Date Analyzed: 01/31/2023 10:50

Instrument ID: 16334 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): GJ31X02.D Heated Purge: (Y/N) N

Calibration ID: 46382

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		224047	4.07	2939273	7.56	2255600	11.07
UPPER LIMIT		448094	4.57	5878546	8.06	4511200	11.57
LOWER LIMIT		112024	3.57	1469637	7.06	1127800	10.57
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-340101/4		208388	4.09	2992136	7.57	2261536	11.07
MB 410-340101/6		212840	4.11	2841819	7.57	2143767	11.07
410-113568-13	HD-QC1-0/1-1	204992	4.08	2864553	7.57	2225969	11.07
410-113568-14	HD-QC1-0/1-2	280431	4.10	2862694	7.57	2190331	11.07
410-113568-1	HD-COD-SW-6-0/1-0	213037	4.09	2800452	7.57	2148037	11.07
410-113568-2	HD-COD-SW-7-0/1-0	211309	4.11	2670273	7.57	2026572	11.07
410-113568-3	HD-COD-SW-8-0/1-0	216010	4.10	2762047	7.57	2113659	11.07
410-113568-4	HD-COD-SW-9-0/1-0	221997	4.09	2774844	7.57	2126229	11.07
410-113568-5	HD-COD-SW-13-0/1-0	220885	4.09	2797918	7.57	2135512	11.07
410-113568-6	HD-COD-SW-15-0/1-0	194175	4.10	2804894	7.57	2147498	11.07
410-113568-6 MS	HD-COD-SW-15-0/1-0 MS MS	204547	4.10	2903421	7.57	2219017	11.07
410-113568-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	225913	4.08	2953125	7.57	2261684	11.07
410-113568-7	HD-COD-SW-16-0/1-0	225798	4.09	2804515	7.56	2143585	11.07
410-113568-8	HD-COD-SW-17-0/1-0	234870	4.08	2854246	7.56	2223388	11.07
410-113568-9	HD-COD-SW-26-0/1-0	225583	4.09	2783167	7.57	2145173	11.07
410-113568-10	HD-COD-SW-27-0/1-0	227085	4.11	2793590	7.57	2131196	11.07
410-113568-11	HD-COD-SW-28-0/1-0	220335	4.09	2770532	7.57	2114619	11.07
410-113568-12	HD-COD-SW-29-0/1-0	232274	4.09	2775801	7.57	2099159	11.07

TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
CBZd5 = Chlorobenzene-d5 (IS)

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-113568-1

SDG No.:

Sample No.: CCVIS 410-340101/3 Date Analyzed: 01/31/2023 10:50

Instrument ID: 16334 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): GJ31X02.D Heated Purge: (Y/N) N

Calibration ID: 46382

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		1326974	12.94				
UPPER LIMIT		2653948	13.44				
LOWER LIMIT		663487	12.44				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-340101/4		1330362	12.94				
MB 410-340101/6		1235957	12.94				
410-113568-13	HD-QC1-0/1-1	1247434	12.94				
410-113568-14	HD-QC1-0/1-2	1263610	12.94				
410-113568-1	HD-COD-SW-6-0/1-0	1225838	12.94				
410-113568-2	HD-COD-SW-7-0/1-0	1156733	12.94				
410-113568-3	HD-COD-SW-8-0/1-0	1212993	12.94				
410-113568-4	HD-COD-SW-9-0/1-0	1221253	12.94				
410-113568-5	HD-COD-SW-13-0/1-0	1217476	12.94				
410-113568-6	HD-COD-SW-15-0/1-0	1223475	12.94				
410-113568-6 MS	HD-COD-SW-15-0/1-0 MS MS	1306709	12.94				
410-113568-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	1327073	12.94				
410-113568-7	HD-COD-SW-16-0/1-0	1211982	12.94				
410-113568-8	HD-COD-SW-17-0/1-0	1243030	12.94				
410-113568-9	HD-COD-SW-26-0/1-0	1221127	12.94				
410-113568-10	HD-COD-SW-27-0/1-0	1217420	12.94				
410-113568-11	HD-COD-SW-28-0/1-0	1211770	12.94				
410-113568-12	HD-COD-SW-29-0/1-0	1191348	12.94				

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 Environment Testing, LLC Job No.: 410-113568-1

SDG No.:

Sample No.: CCVIS 410-340956/3 Date Analyzed: 02/02/2023 10:53

Instrument ID: 16334 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): GF02X02.D Heated Purge: (Y/N) N

Calibration ID: 46382

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		200490	4.07	3021152	7.57	2304713	11.06
UPPER LIMIT		400980	4.57	6042304	8.07	4609426	11.56
LOWER LIMIT		100245	3.57	1510576	7.07	1152357	10.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-340956/5		204906	4.08	2958868	7.56	2278865	11.07
MB 410-340956/8		214304	4.09	2799252	7.57	2145291	11.07
410-113568-8 DL	HD-COD-SW-17-0/1-0 DL	177560	4.09	2958749	7.57	2300808	11.06
410-113568-13 DL	HD-QC1-0/1-1 DL	200763	4.09	2852164	7.57	2198280	11.07

TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
CBZd5 = Chlorobenzene-d5 (IS)

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-113568-1

SDG No.:

Sample No.: CCVIS 410-340956/3 Date Analyzed: 02/02/2023 10:53

Instrument ID: 16334 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): GF02X02.D Heated Purge: (Y/N) N

Calibration ID: 46382

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		1360710	12.94				
UPPER LIMIT		2721420	13.44				
LOWER LIMIT		680355	12.44				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-340956/5		1332152	12.94				
MB 410-340956/8		1212764	12.94				
410-113568-8 DL	HD-COD-SW-17-0/1-0 DL	1298843	12.94				
410-113568-13 DL	HD-QC1-0/1-1 DL	1263916	12.94				

DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-6-0/1-0
Lab Sample ID: 410-113568-1

Matrix: Water
Lab File ID: GJ31X08.D

Analysis Method: 8260D
Date Collected: 01/25/2023 10:05

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 13:02

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.: 340101
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	^c cn	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 Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-6-0/1-0
Lab Sample ID: 410-113568-1

Matrix: Water
Lab File ID: GJ31X08.D

Analysis Method: 8260D
Date Collected: 01/25/2023 10:05

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 13:02

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.: 340101
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)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X08.D
Lims ID: 410-113568-A-1
Client ID: HD-COD-SW-6-0/1-0
Sample Type: Client
Inject. Date: 31-Jan-2023 13:02:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076112-009
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Feb-2023 09:11:41 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1655

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:11:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.093				ND	7
6 Vinyl chloride	62		2.203				ND	
9 Bromomethane	94		2.532				ND	
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96		3.428				ND	
19 Acetone	43	3.477	3.452	0.025	86	11574	0.9705	
24 Carbon disulfide	76		3.714				ND	7
29 Methylene Chloride	84		4.068				ND	7
* 30 t-Butyl alcohol-d10 (IS)	65	4.092	4.074	0.018	1	213037	50.0	
33 Methyl tert-butyl ether	73		4.464				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63		5.135				ND	
41 2-Butanone (MEK)	43		5.940				ND	
42 cis-1,2-Dichloroethene	96	5.976	5.970	0.006	77	5328	0.0653	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.464	6.452	0.012	89	5719	0.0436	a
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	94	693815	10.3	
53 1,1,1-Trichloroethane	97		6.683				ND	
55 Carbon tetrachloride	117		6.897				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.122	0.006	28	146846	10.6	
60 Benzene	78		7.159				ND	7
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.561	0.006	99	2800452	10.0	
68 Trichloroethene	95	8.043	8.043	0.000	93	4787	0.0584	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	7
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	7
$ 83 Toluene-d8 (Surr)	98	9.597	9.591	0.006	94	2796316	9.85	
84 Toluene	92		9.671				ND	7
85 trans-1,3-Dichloropropene	75		9.933				ND	
107 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166		10.225				ND	7
110 2-Hexanone	43		10.359				ND	
112 Chlorodibromomethane	129		10.518				ND	
113 Ethylene Dibromide	107		10.628				ND	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	86	2148037	10.0	
116 Chlorobenzene	112		11.091				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
118 Ethylbenzene	91		11.176				ND	
S 119 Xylenes, Total	106		11.245				ND	7
120 m-Xylene & p-Xylene	106		11.292				ND	7
121 o-Xylene	106		11.621				ND	
122 Styrene	104		11.640				ND	
123 Bromoform	173		11.792				ND	
$ 127 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	91	1021918	9.78	
128 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	1225838	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSV_29_826ISS_00037 Amount Added: 1.00 Units: uL Run Reagent

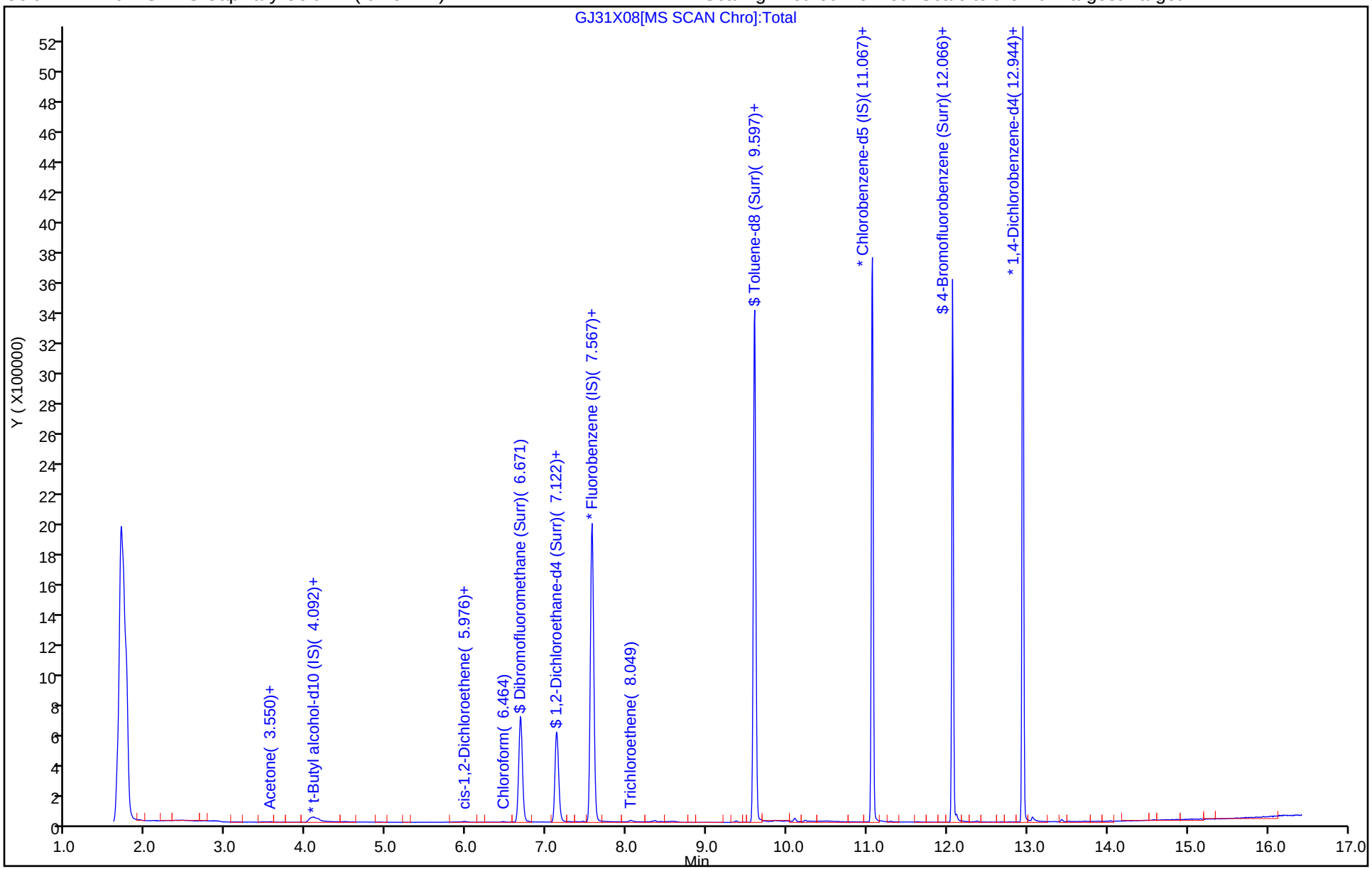
Report Date: 01-Feb-2023 09:11:42 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X08.D

Injection Date:	31-Jan-2023 13:02:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-113568-A-1	Lab Sample ID:	410-113568-1	Worklist Smp#:	9
Client ID:	HD-COD-SW-6-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X08.D				
Lims ID:	410-113568-A-1				
Client ID:	HD-COD-SW-6-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Jan-2023 13:02:30	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0076112-009				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Feb-2023 09:11:41	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1655				

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:11:41

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	103.21
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.51
$ 83 Toluene-d8 (Surr)	10.0	9.85	98.52
$ 127 4-Bromofluorobenzene (Surr)	10.0	9.78	97.82

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

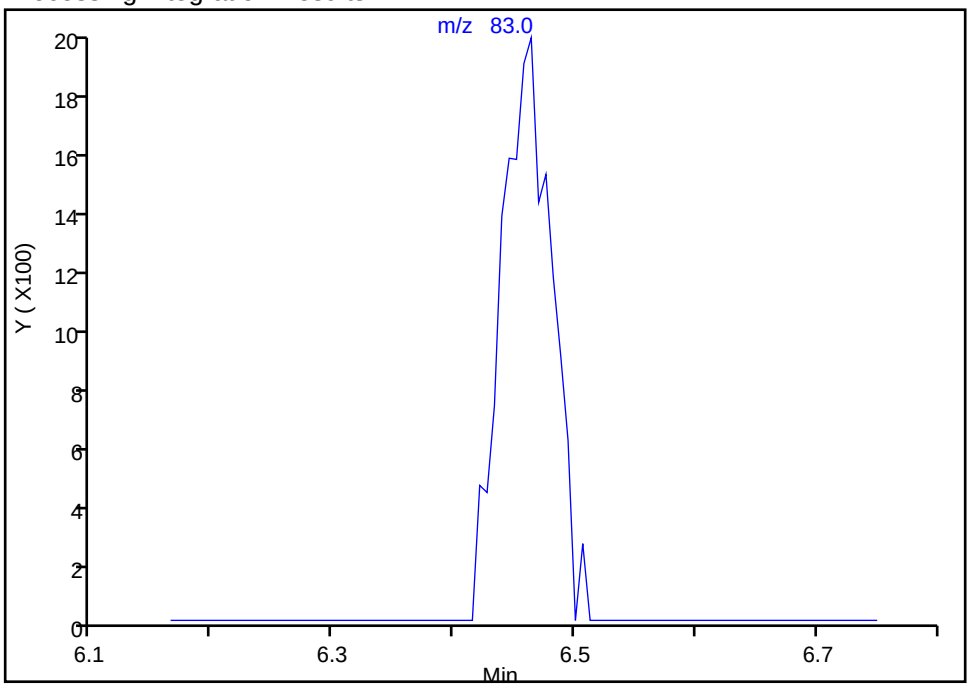
Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X08.D				
Injection Date:	31-Jan-2023 13:02:30	Instrument ID:	16334		
Lims ID:	410-113568-A-1	Lab Sample ID:	410-113568-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

51 Chloroform, CAS: 67-66-3

Signal: 1

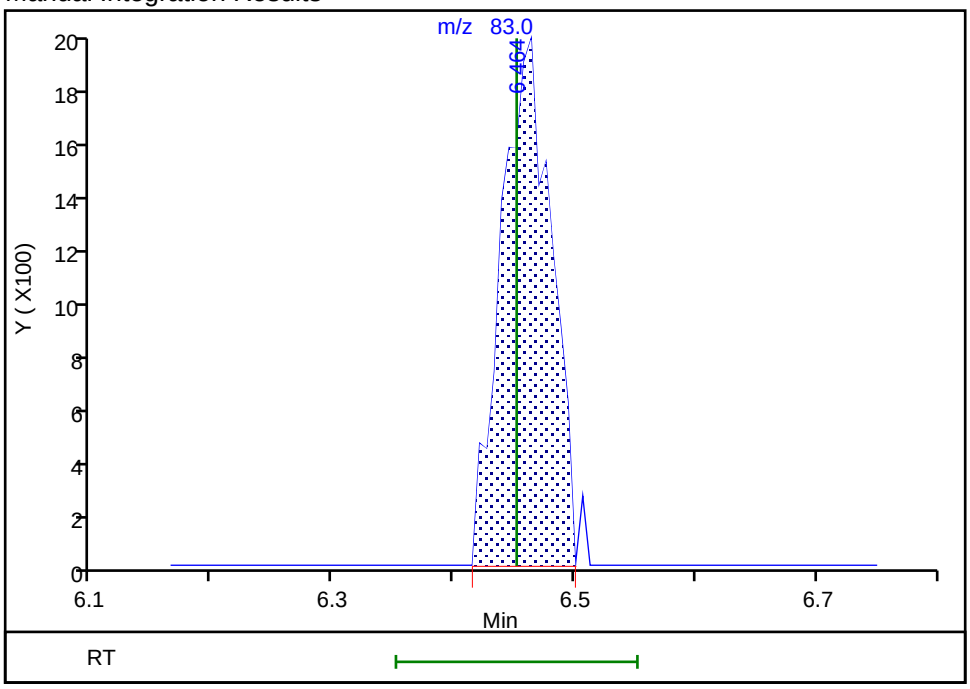
Not Detected
Expected RT: 6.45

Processing Integration Results



Manual Integration Results

RT: 6.46
Area: 5719
Amount: 0.043591
Amount Units: ug/l



Reviewer: kaewrungrueangp, 01-Feb-2023 09:11:29
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0
Lab Sample ID: 410-113568-2

Matrix: Water
Lab File ID: GJ31X09.D

Analysis Method: 8260D
Date Collected: 01/25/2023 11:12

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 13:24

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 340101
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	^c cn	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	0.14	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 Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0
Lab Sample ID: 410-113568-2

Matrix: Water
Lab File ID: GJ31X09.D

Analysis Method: 8260D
Date Collected: 01/25/2023 11:12

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 13:24

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 340101
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)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X09.D
Lims ID: 410-113568-A-2
Client ID: HD-COD-SW-7-0/1-0
Sample Type: Client
Inject. Date: 31-Jan-2023 13:24:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076112-010
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Feb-2023 09:12:20 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1655

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:12:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.093				ND	
6 Vinyl chloride	62		2.203				ND	7
9 Bromomethane	94		2.532				ND	7
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96		3.428				ND	7
19 Acetone	43	3.471	3.452	0.019	78	9259	0.7827	
24 Carbon disulfide	76		3.714				ND	7
29 Methylene Chloride	84		4.068				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.105	4.074	0.031	1	211309	50.0	
33 Methyl tert-butyl ether	73		4.464				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63		5.135				ND	
41 2-Butanone (MEK)	43		5.940				ND	
42 cis-1,2-Dichloroethene	96	5.988	5.970	0.018	79	11041	0.1420	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.452	6.452	0.000	90	7875	0.0630	a
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.671	0.000	94	661064	10.3	
53 1,1,1-Trichloroethane	97		6.683				ND	
55 Carbon tetrachloride	117		6.897				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.134	7.122	0.012	24	138381	10.4	
60 Benzene	78		7.159				ND	7
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.561	0.006	99	2670273	10.0	
68 Trichloroethene	95	8.049	8.043	0.006	97	12286	0.1573	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	7
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	7
$ 83 Toluene-d8 (Surr)	98	9.597	9.591	0.006	94	2687332	10.0	
84 Toluene	92		9.671				ND	7
85 trans-1,3-Dichloropropene	75		9.933				ND	
107 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	10.231	10.225	0.006	93	5213	0.0588	
110 2-Hexanone	43		10.359				ND	
112 Chlorodibromomethane	129		10.518				ND	
113 Ethylene Dibromide	107		10.628				ND	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	86	2026572	10.0	
116 Chlorobenzene	112		11.091				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
118 Ethylbenzene	91		11.176				ND	
S 119 Xylenes, Total	106		11.245				ND	7
120 m-Xylene & p-Xylene	106		11.292				ND	7
121 o-Xylene	106		11.621				ND	
122 Styrene	104		11.640				ND	7
123 Bromoform	173		11.792				ND	
$ 127 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	91	968441	9.83	
128 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	1156733	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

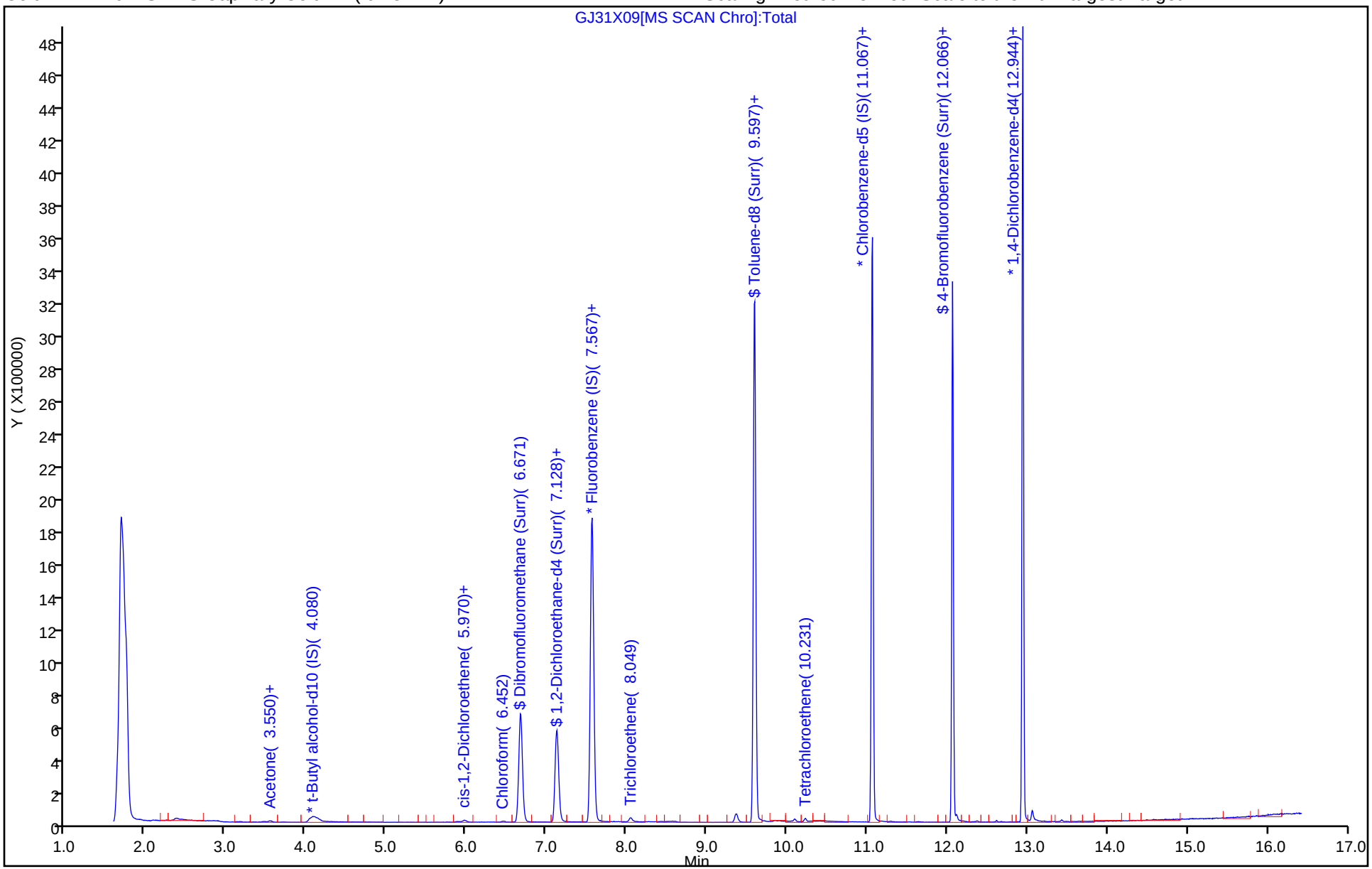
MSV_29_826ISS_00037 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 01-Feb-2023 09:12:21 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X09.D				
Injection Date:	31-Jan-2023 13:24:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-113568-A-2	Lab Sample ID:	410-113568-2	Worklist Smp#:	10
Client ID:	HD-COD-SW-7-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X09.D				
Lims ID:	410-113568-A-2				
Client ID:	HD-COD-SW-7-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Jan-2023 13:24:30	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0076112-010				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Feb-2023 09:12:20	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1655				

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:12:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	103.13
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.27
$ 83 Toluene-d8 (Surr)	10.0	10.0	100.35
$ 127 4-Bromofluorobenzene (Surr)	10.0	9.83	98.25

Report Date: 01-Feb-2023 09:12:21 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X09.D

Injection Date: 31-Jan-2023 13:24:30 Instrument ID: 16334

Lims ID: 410-113568-A-2 Lab Sample ID: 410-113568-2

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

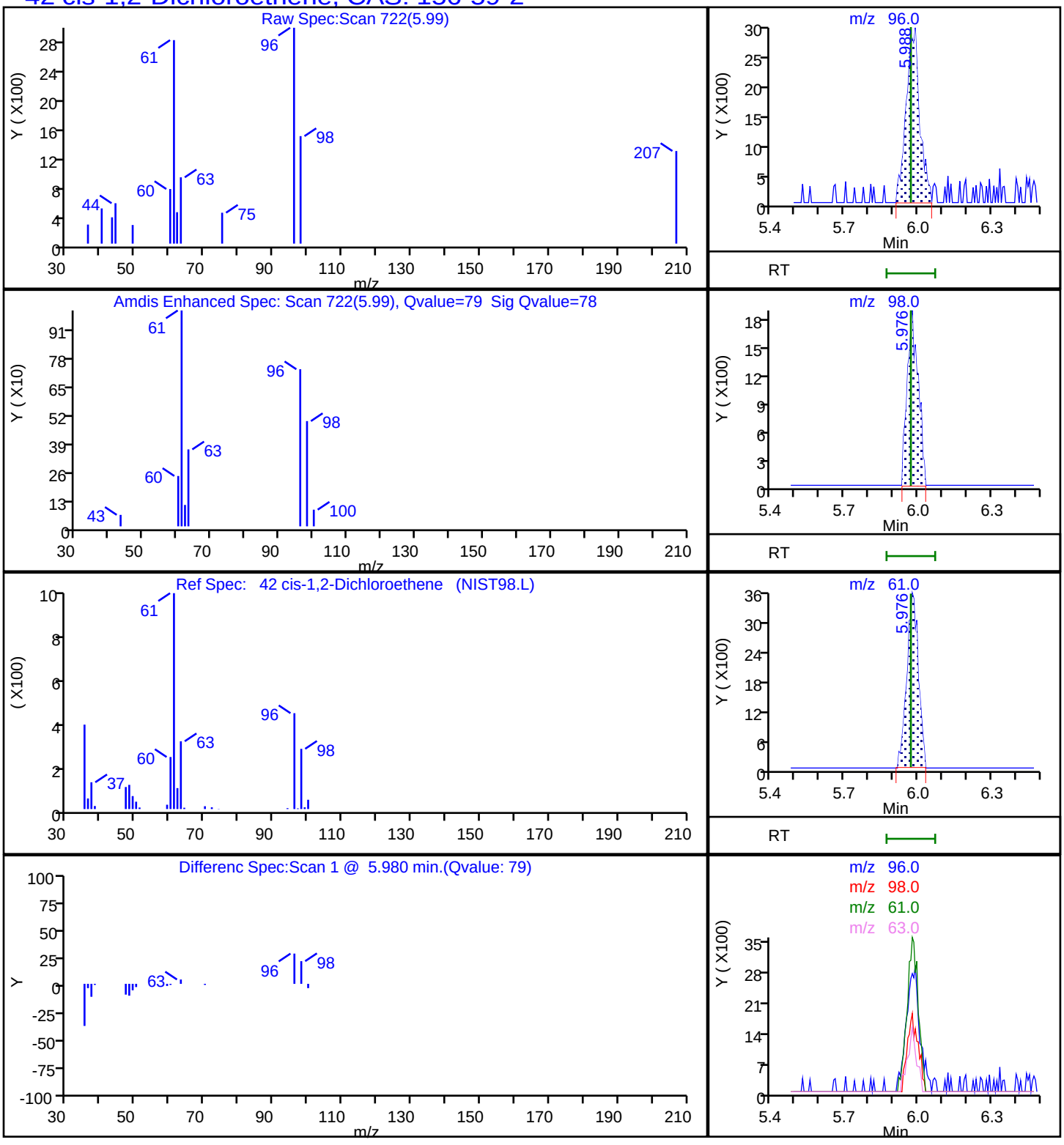
Operator ID: knk41612 ALS Bottle#: 9 Worklist Smp#: 10

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_16334_25mL Limit Group: MSV - 8260C_D

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

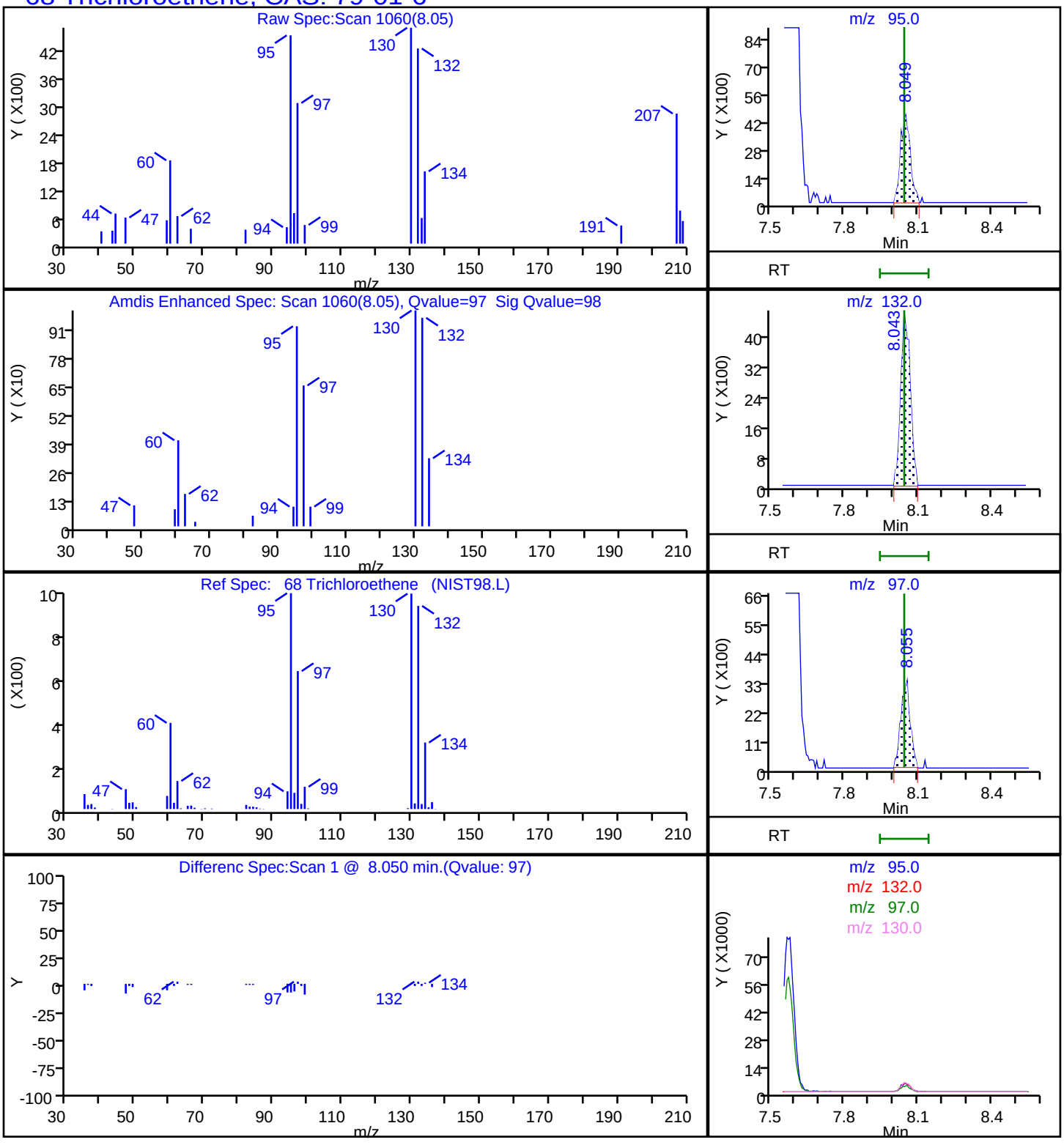
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X09.D				
Injection Date:	31-Jan-2023 13:24:30	Instrument ID:	16334		
Lims ID:	410-113568-A-2	Lab Sample ID:	410-113568-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

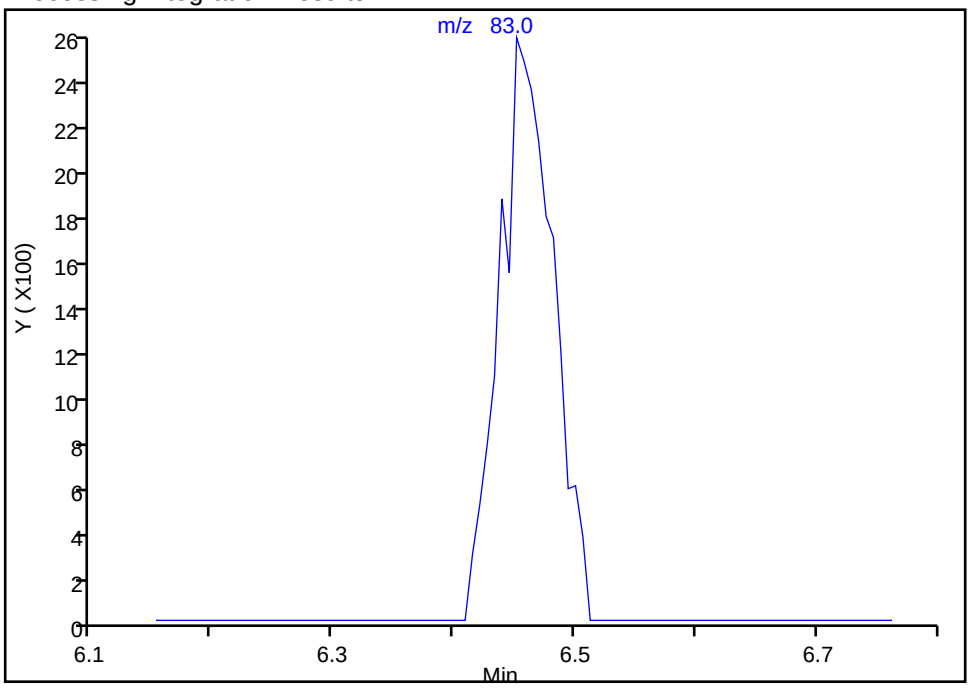
Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X09.D				
Injection Date:	31-Jan-2023 13:24:30	Instrument ID:	16334		
Lims ID:	410-113568-A-2	Lab Sample ID:	410-113568-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

51 Chloroform, CAS: 67-66-3

Signal: 1

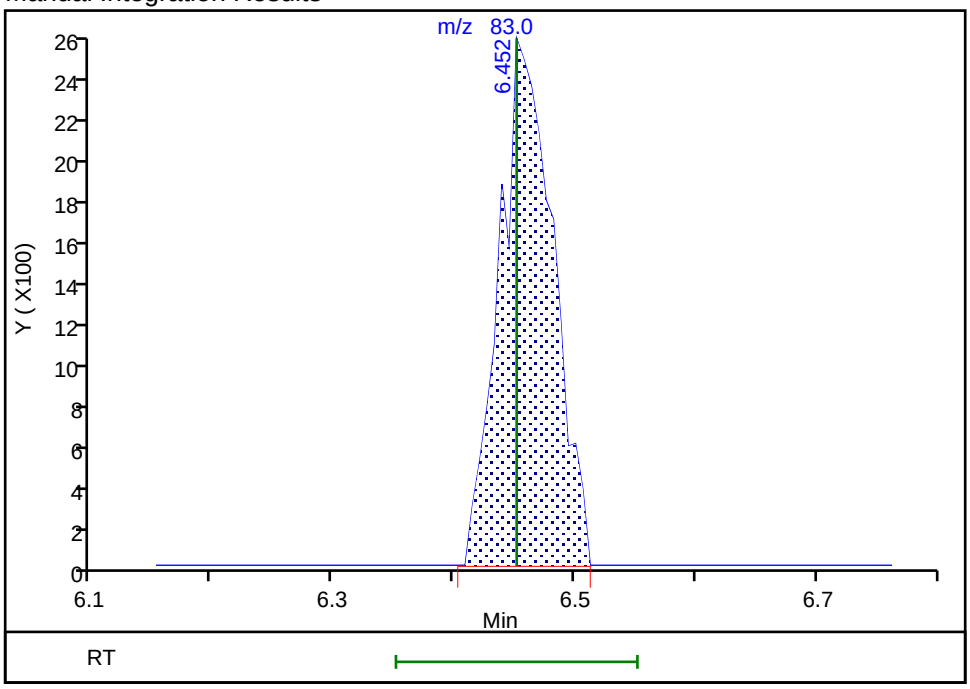
Not Detected
Expected RT: 6.45

Processing Integration Results



Manual Integration Results

RT: 6.45
Area: 7875
Amount: 0.062950
Amount Units: ug/l



Reviewer: kaewrungrueangp, 01-Feb-2023 09:12:06
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-8-0/1-0
Lab Sample ID: 410-113568-3

Matrix: Water
Lab File ID: GJ31X10.D

Analysis Method: 8260D
Date Collected: 01/25/2023 08:55

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 13:46

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.: 340101
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	1.6	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	^c cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.16	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.46	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.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-8-0/1-0
Lab Sample ID: 410-113568-3

Matrix: Water
Lab File ID: GJ31X10.D

Analysis Method: 8260D
Date Collected: 01/25/2023 08:55

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 13:46

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.: 340101
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)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X10.D
Lims ID: 410-113568-A-3
Client ID: HD-COD-SW-8-0/1-0
Sample Type: Client
Inject. Date: 31-Jan-2023 13:46:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076112-011
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Feb-2023 09:15:07 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1655

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:15:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.093	2.093	0.000	96	5266	0.0484	
6 Vinyl chloride	62		2.203				ND	7
9 Bromomethane	94		2.532				ND	7
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96		3.428				ND	
19 Acetone	43	3.464	3.452	0.012	96	19557	1.62	
24 Carbon disulfide	76		3.714				ND	7
29 Methylene Chloride	84		4.068				ND	7
* 30 t-Butyl alcohol-d10 (IS)	65	4.098	4.074	0.024	1	216010	50.0	
33 Methyl tert-butyl ether	73		4.464				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63		5.135				ND	
41 2-Butanone (MEK)	43		5.940				ND	
42 cis-1,2-Dichloroethene	96	5.976	5.970	0.006	80	12567	0.1562	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.458	6.452	0.006	92	5194	0.0401	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.671	0.000	94	687283	10.4	
53 1,1,1-Trichloroethane	97		6.683				ND	U
55 Carbon tetrachloride	117		6.897				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.122	0.006	20	145005	10.6	
60 Benzene	78		7.159				ND	7
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.561	0.006	99	2762047	10.0	
68 Trichloroethene	95	8.055	8.043	0.012	94	13317	0.1649	a
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	7
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	7
$ 83 Toluene-d8 (Surr)	98	9.591	9.591	0.000	94	2761721	9.89	
84 Toluene	92		9.671				ND	7
85 trans-1,3-Dichloropropene	75		9.933				ND	
107 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	10.225	10.225	0.000	97	42512	0.4596	
110 2-Hexanone	43		10.359				ND	
112 Chlorodibromomethane	129		10.518				ND	
113 Ethylene Dibromide	107		10.628				ND	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	86	2113659	10.0	
116 Chlorobenzene	112		11.091				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
118 Ethylbenzene	91		11.176				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
120 m-Xylene & p-Xylene	106		11.292				ND	7
121 o-Xylene	106		11.621				ND	7
122 Styrene	104		11.640				ND	
123 Bromoform	173		11.792				ND	
$ 127 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	91	1007399	9.80	
128 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	1212993	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

MSV_29_826ISS_00037 Amount Added: 1.00 Units: uL Run Reagent

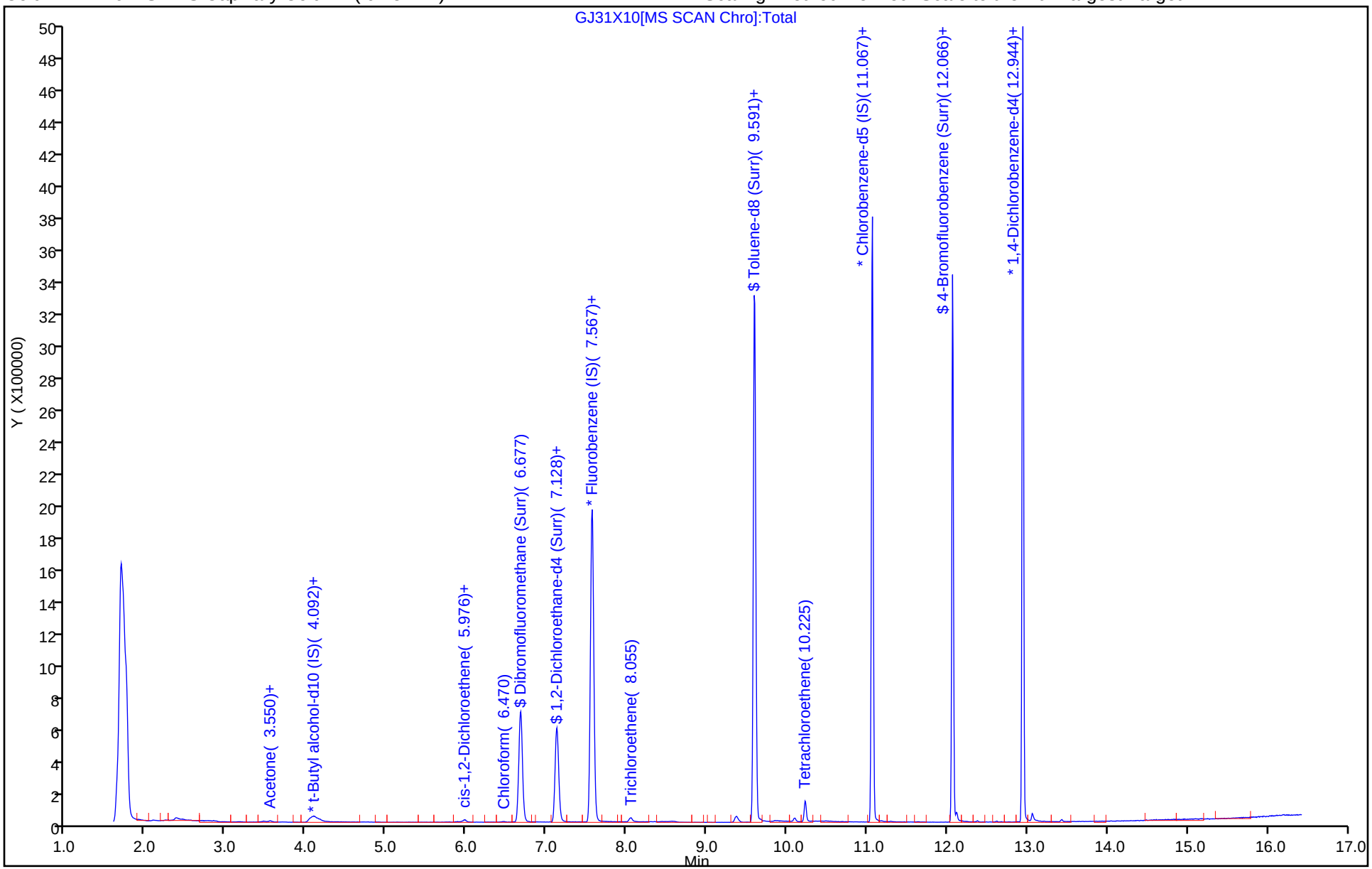
Report Date: 01-Feb-2023 09:15:08 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X10.D

Injection Date:	31-Jan-2023 13:46:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-113568-A-3	Lab Sample ID:	410-113568-3	Worklist Smp#:	11
Client ID:	HD-COD-SW-8-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X10.D				
Lims ID:	410-113568-A-3				
Client ID:	HD-COD-SW-8-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Jan-2023 13:46:30	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0076112-011				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Feb-2023 09:15:07	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1655				

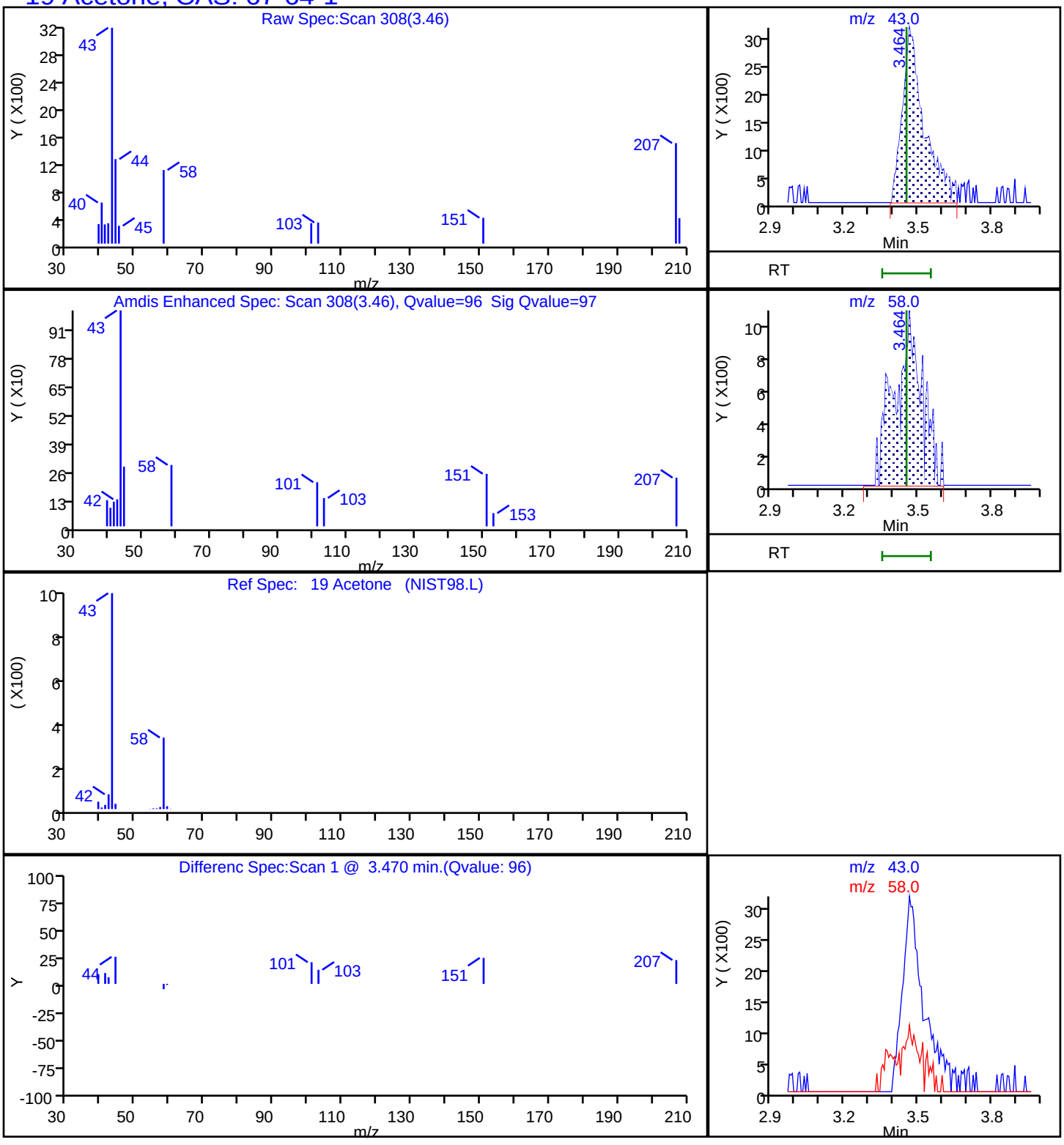
First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:15:07

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.4	103.66
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.63
$ 83 Toluene-d8 (Surr)	10.0	9.89	98.88
$ 127 4-Bromofluorobenzene (Surr)	10.0	9.80	97.99

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X10.D				
Injection Date:	31-Jan-2023 13:46:30	Instrument ID:	16334		
Lims ID:	410-113568-A-3	Lab Sample ID:	410-113568-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

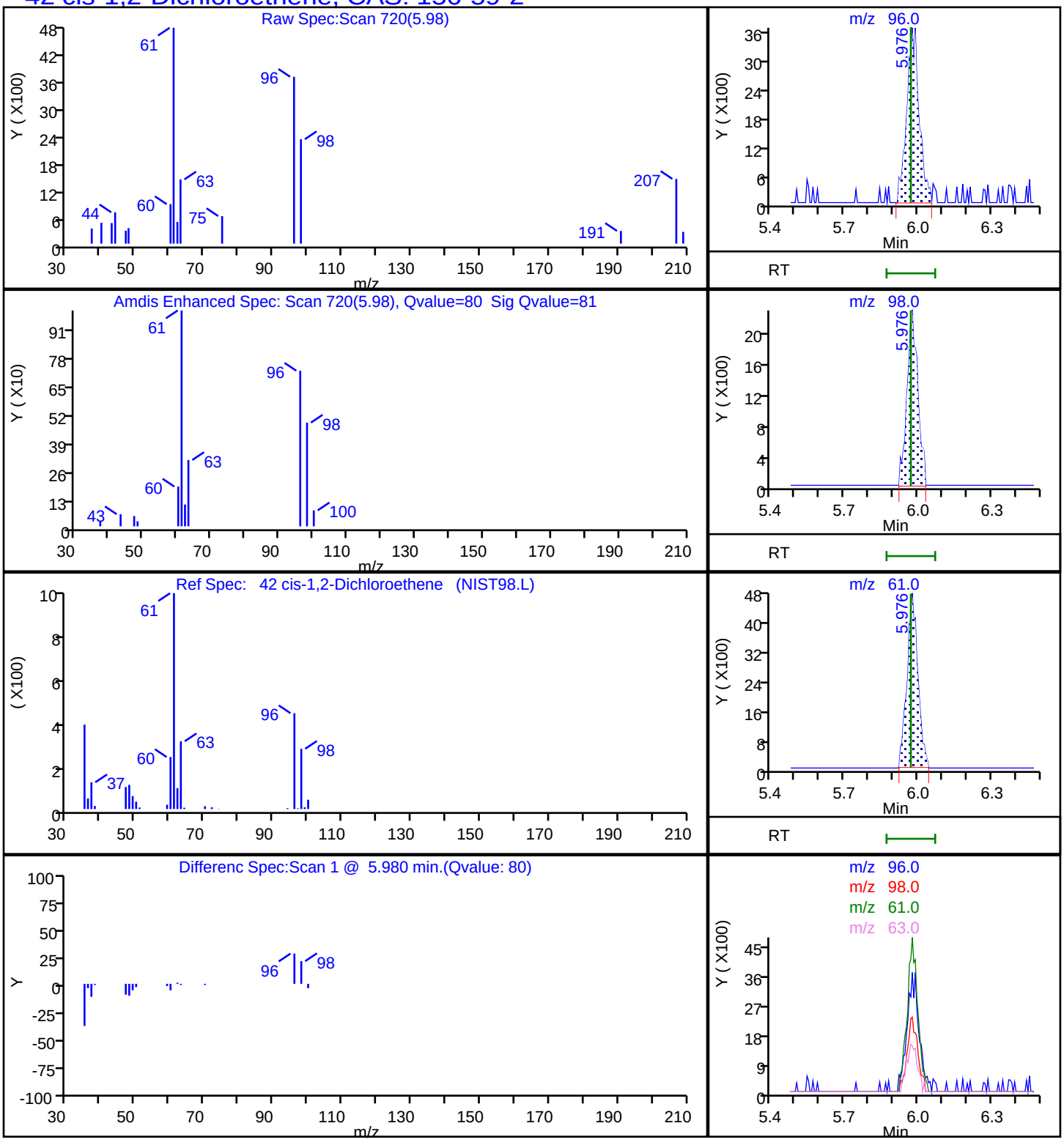
19 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X10.D
Injection Date: 31-Jan-2023 13:46:30 Instrument ID: 16334
Lims ID: 410-113568-A-3 Lab Sample ID: 410-113568-3
Client ID: HD-COD-SW-8-0/1-0
Operator ID: knk41612 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

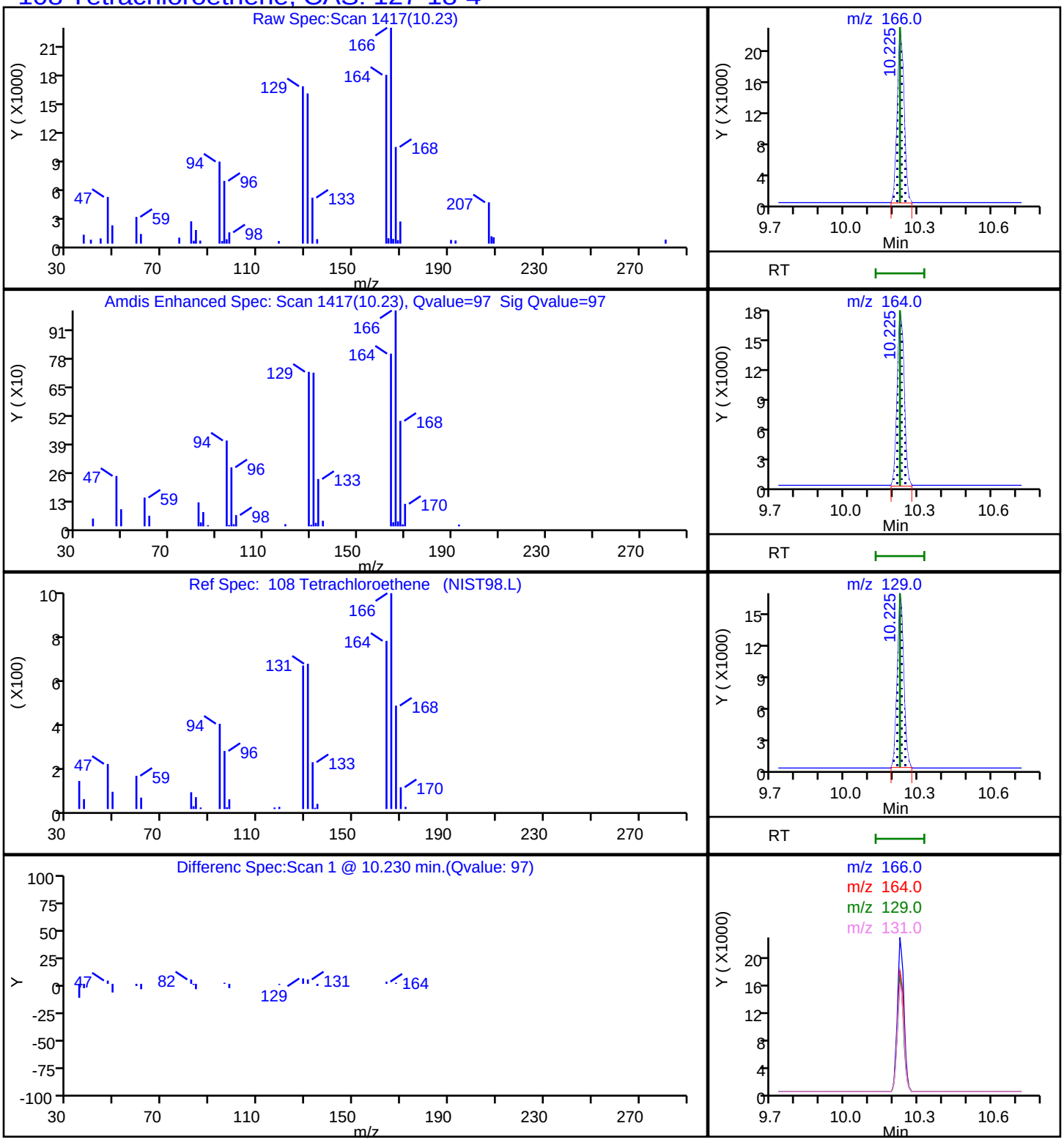
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X10.D				
Injection Date:	31-Jan-2023 13:46:30	Instrument ID:	16334		
Lims ID:	410-113568-A-3	Lab Sample ID:	410-113568-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

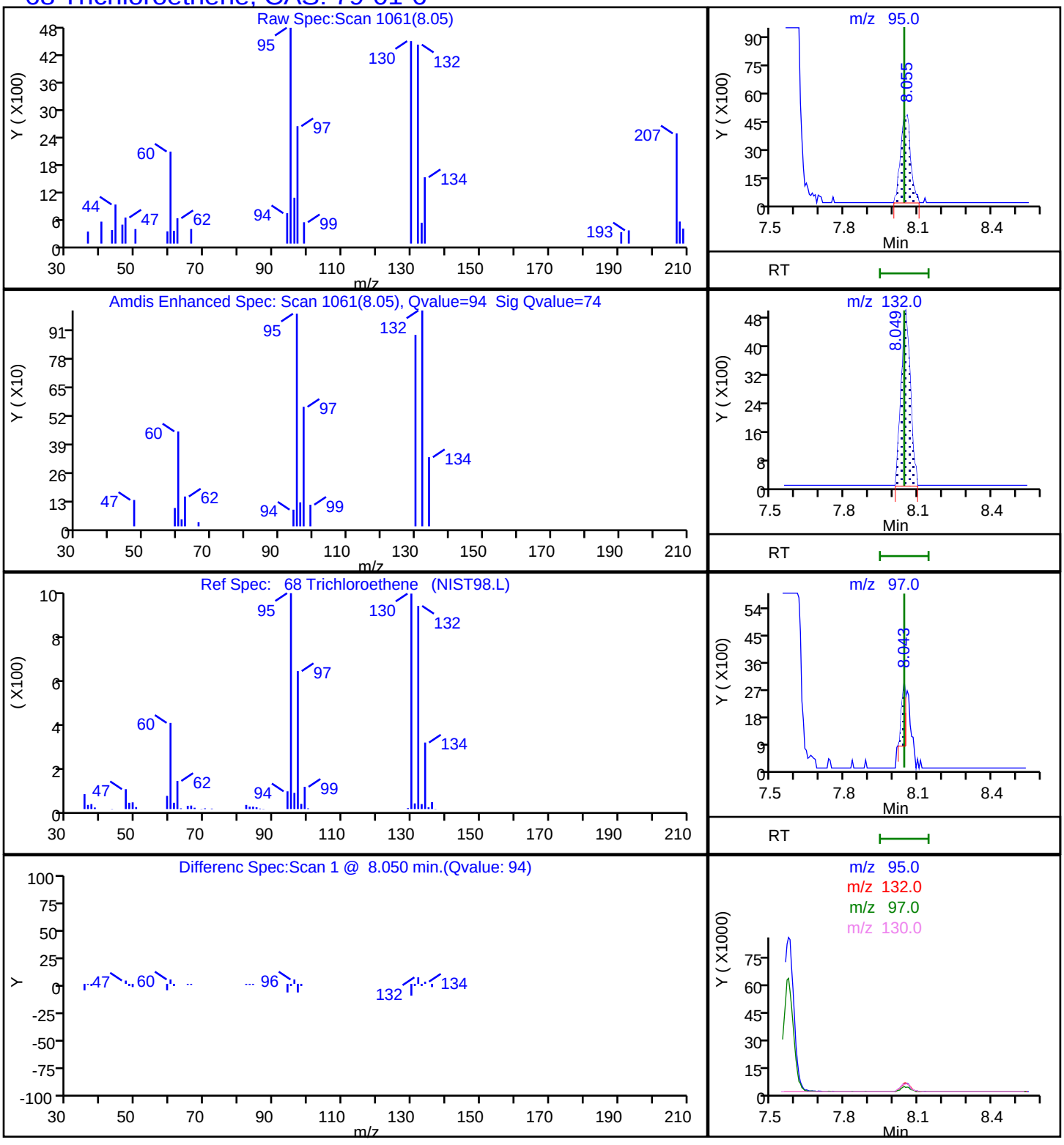
108 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X10.D				
Injection Date:	31-Jan-2023 13:46:30	Instrument ID:	16334		
Lims ID:	410-113568-A-3	Lab Sample ID:	410-113568-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

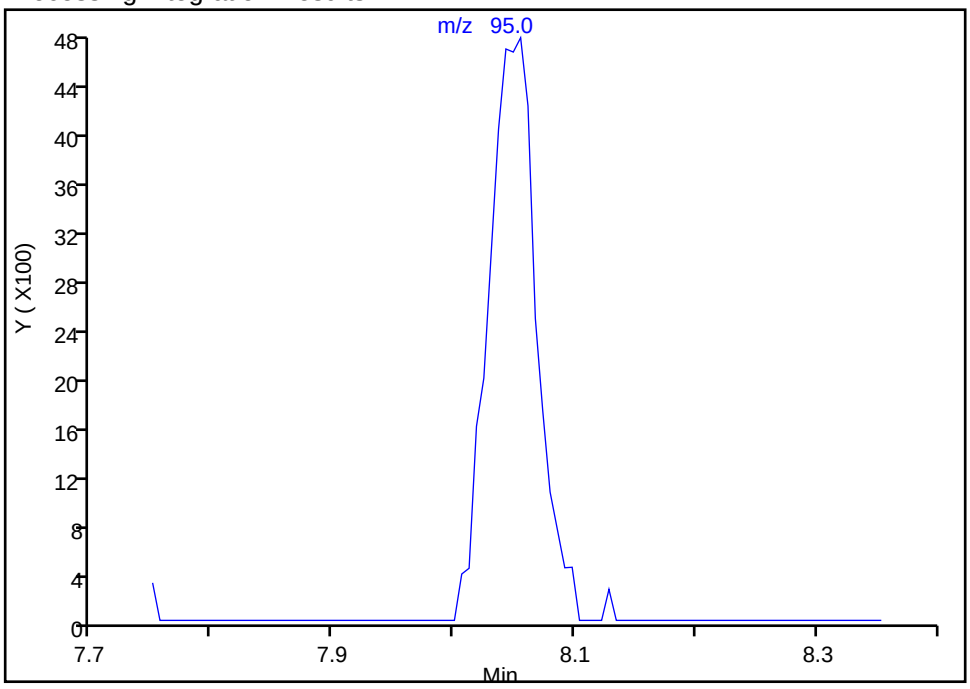
Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X10.D				
Injection Date:	31-Jan-2023 13:46:30	Instrument ID:	16334		
Lims ID:	410-113568-A-3	Lab Sample ID:	410-113568-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6

Signal: 1

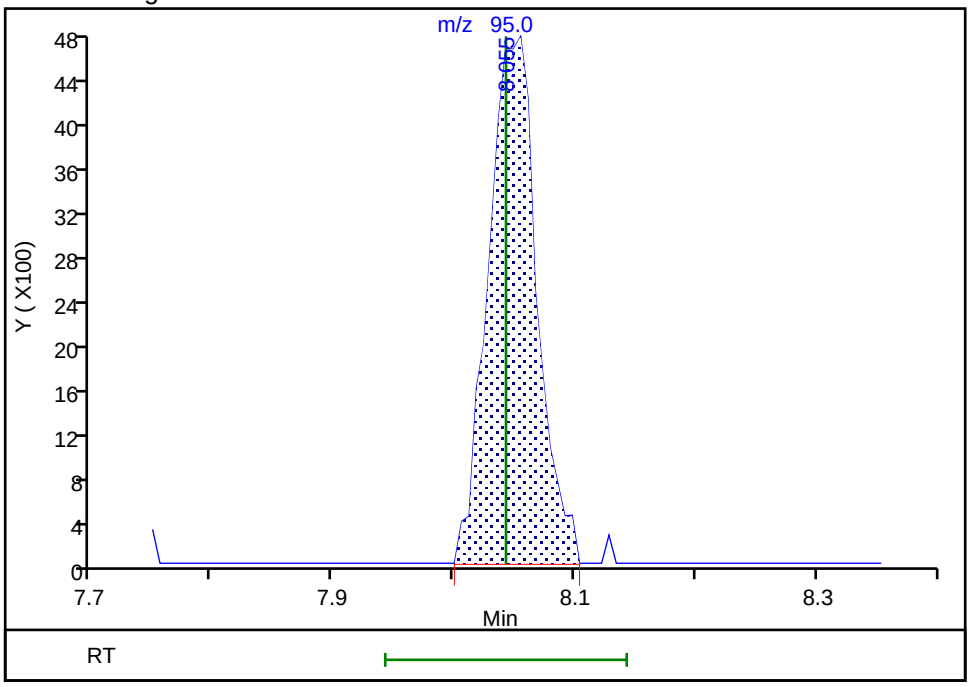
Not Detected
Expected RT: 8.04

Processing Integration Results



Manual Integration Results

RT: 8.05
Area: 13317
Amount: 0.164857
Amount Units: ug/l



Reviewer: kaewrungrueangp, 01-Feb-2023 09:14:54
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0
Lab Sample ID: 410-113568-4

Matrix: Water
Lab File ID: GJ31X11.D

Analysis Method: 8260D
Date Collected: 01/25/2023 12:45

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 14:09

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.: 340101
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	1.2	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	^c cn	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	0.14	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 Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0
Lab Sample ID: 410-113568-4

Matrix: Water
Lab File ID: GJ31X11.D

Analysis Method: 8260D
Date Collected: 01/25/2023 12:45

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 14:09

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.: 340101
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	0.13	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X11.D
Lims ID: 410-113568-A-4
Client ID: HD-COD-SW-9-0/1-0
Sample Type: Client
Inject. Date: 31-Jan-2023 14:09:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076112-012
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Feb-2023 09:16:15 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1655

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:16:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.087	2.093	-0.006	98	7334	0.0670	
6 Vinyl chloride	62		2.203				ND	
9 Bromomethane	94		2.532				ND	7
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96		3.428				ND	
19 Acetone	43	3.464	3.452	0.012	82	15176	1.22	
24 Carbon disulfide	76		3.714				ND	7
29 Methylene Chloride	84		4.068				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.086	4.074	0.012	1	221997	50.0	
33 Methyl tert-butyl ether	73		4.464				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63		5.135				ND	
41 2-Butanone (MEK)	43		5.940				ND	
42 cis-1,2-Dichloroethene	96	5.982	5.970	0.012	76	11060	0.1369	a
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.464	6.452	0.012	92	8141	0.0626	a
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	94	683888	10.3	
53 1,1,1-Trichloroethane	97		6.683				ND	
55 Carbon tetrachloride	117		6.897				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.122	7.122	0.000	66	145059	10.5	M
60 Benzene	78		7.159				ND	7
61 1,2-Dichloroethane	62		7.226				ND	7
* 64 Fluorobenzene (IS)	96	7.567	7.561	0.006	99	2774844	10.0	
68 Trichloroethene	95	8.043	8.043	0.000	96	10456	0.1288	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	7
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	7
$ 83 Toluene-d8 (Surr)	98	9.597	9.591	0.006	94	2778776	9.89	
84 Toluene	92	9.671	9.671	0.000	95	6592	0.0333	
85 trans-1,3-Dichloropropene	75		9.933				ND	
107 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	10.225	10.225	0.000	97	15048	0.1617	
110 2-Hexanone	43		10.359				ND	
112 Chlorodibromomethane	129		10.518				ND	
113 Ethylene Dibromide	107		10.628				ND	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	86	2126229	10.0	
116 Chlorobenzene	112		11.091				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
118 Ethylbenzene	91		11.176				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
120 m-Xylene & p-Xylene	106		11.292				ND	7
121 o-Xylene	106		11.621				ND	7
122 Styrene	104		11.640				ND	7
123 Bromoform	173		11.792				ND	
$ 127 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	91	1009815	9.76	
128 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	1221253	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_29_826ISS_00037 Amount Added: 1.00 Units: uL Run Reagent

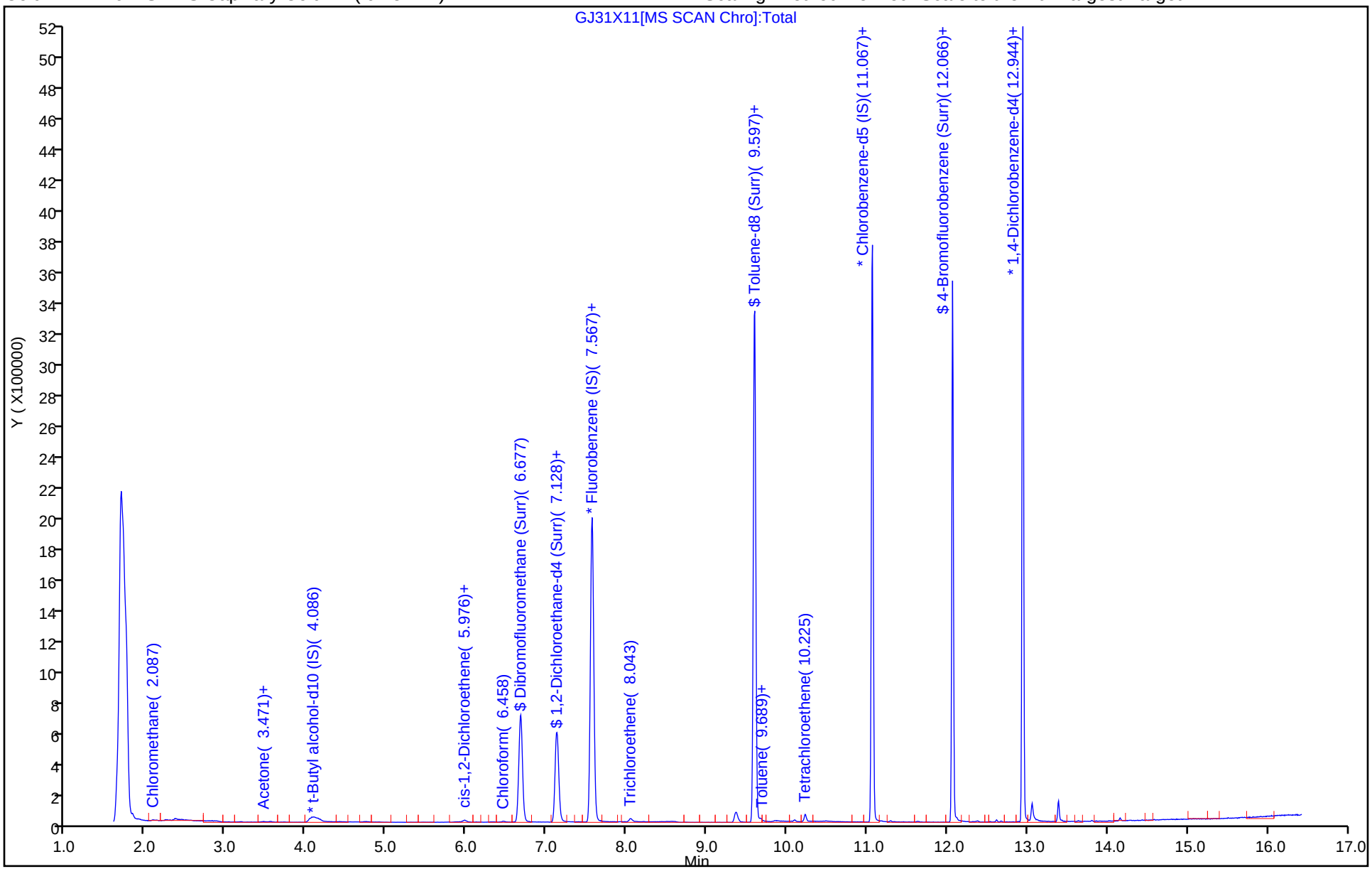
Report Date: 01-Feb-2023 09:16:15 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X11.D

Injection Date:	31-Jan-2023 14:09:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-113568-A-4	Lab Sample ID:	410-113568-4	Worklist Smp#:	12
Client ID:	HD-COD-SW-9-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X11.D				
Lims ID:	410-113568-A-4				
Client ID:	HD-COD-SW-9-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Jan-2023 14:09:30	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0076112-012				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Feb-2023 09:16:15	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1655				

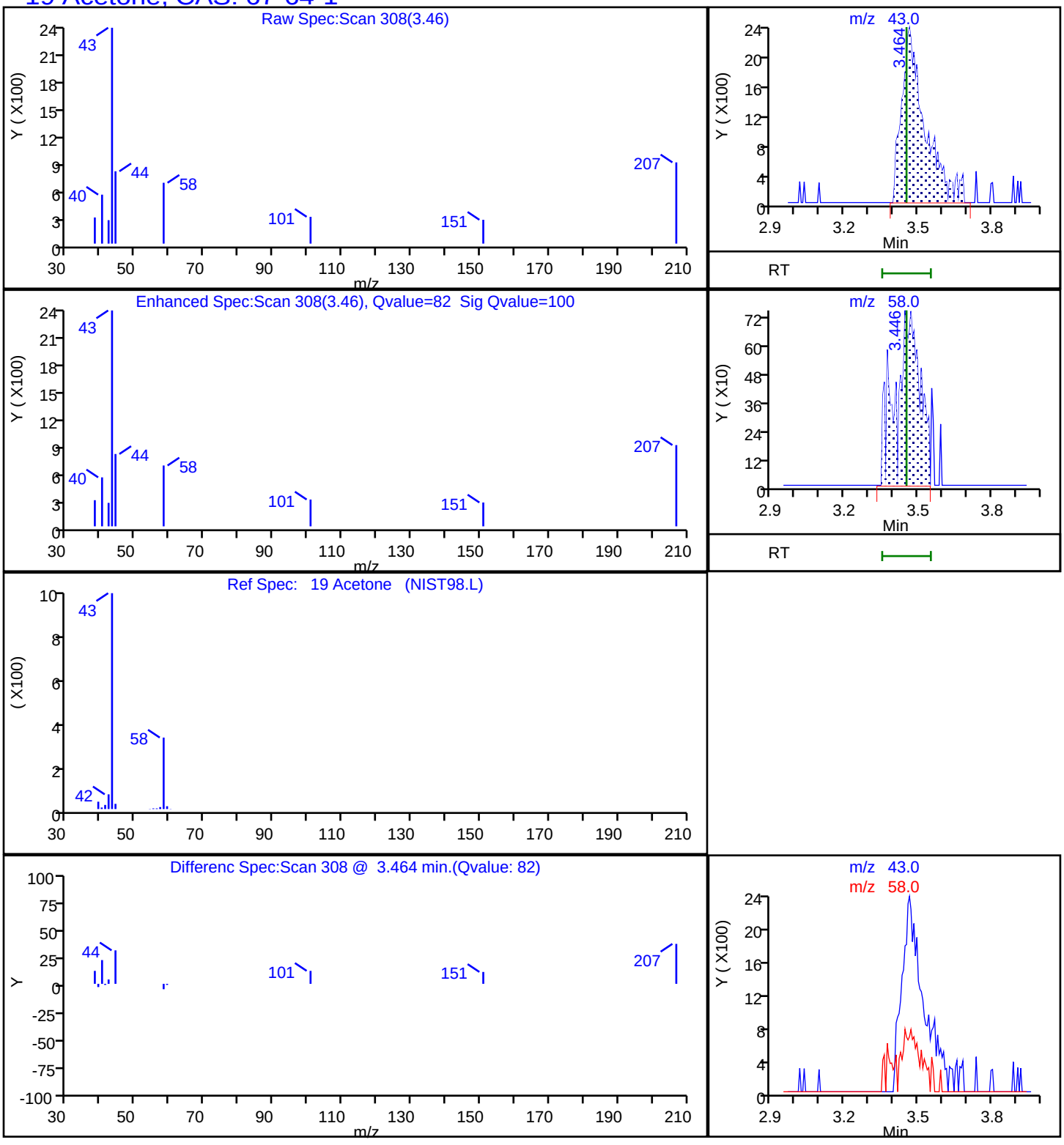
First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:16:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	102.67
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.19
$ 83 Toluene-d8 (Surr)	10.0	9.89	98.90
$ 127 4-Bromofluorobenzene (Surr)	10.0	9.76	97.65

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X11.D				
Injection Date:	31-Jan-2023 14:09:30	Instrument ID:	16334		
Lims ID:	410-113568-A-4	Lab Sample ID:	410-113568-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

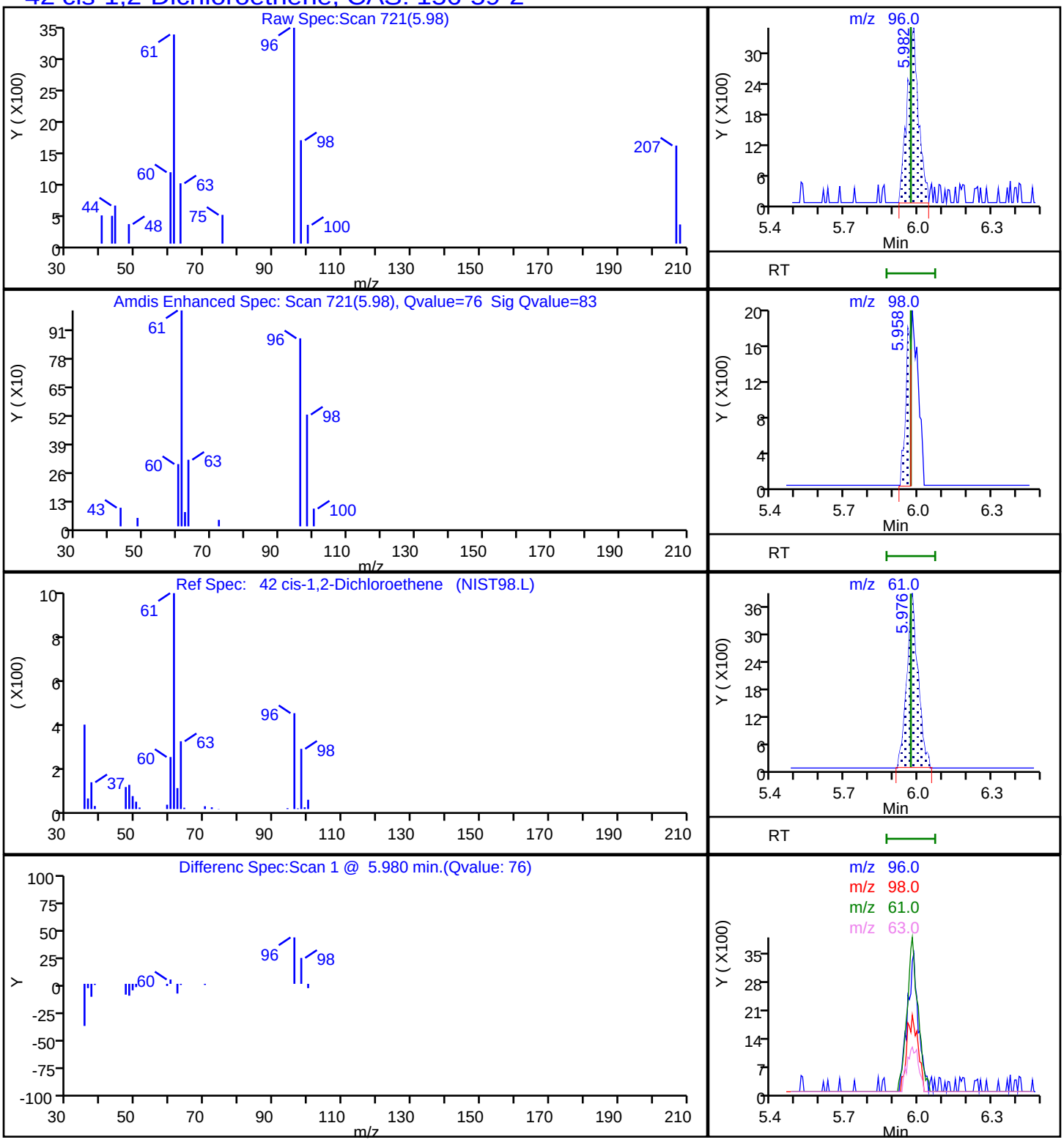
19 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X11.D				
Injection Date:	31-Jan-2023 14:09:30	Instrument ID:	16334		
Lims ID:	410-113568-A-4	Lab Sample ID:	410-113568-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

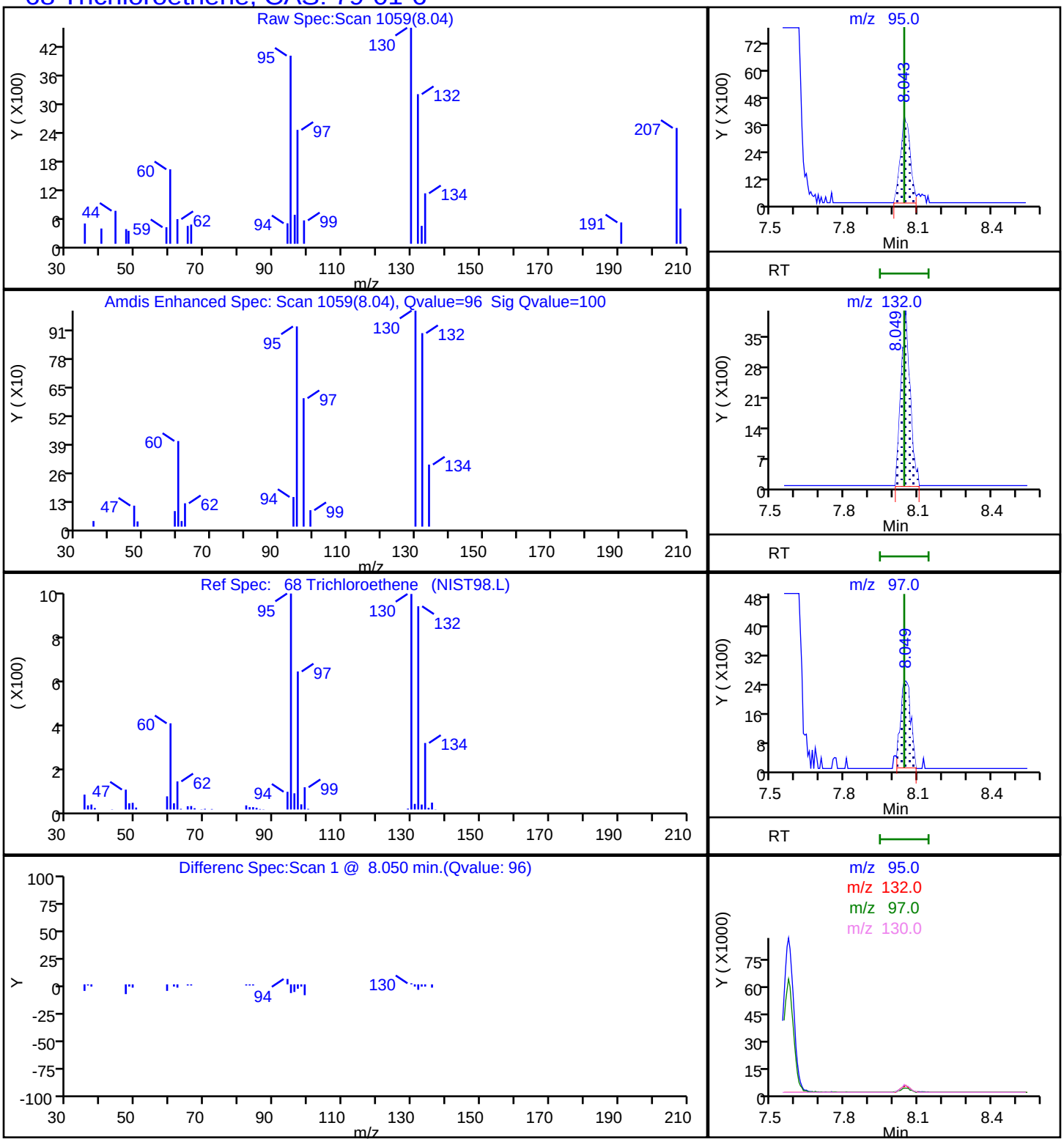
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X11.D				
Injection Date:	31-Jan-2023 14:09:30	Instrument ID:	16334		
Lims ID:	410-113568-A-4	Lab Sample ID:	410-113568-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

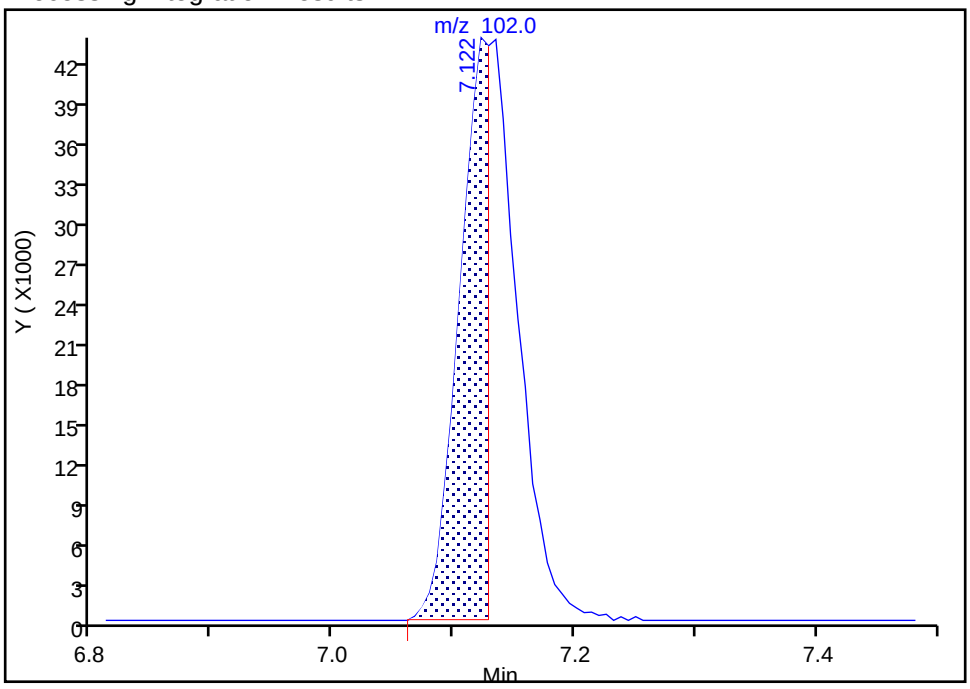
Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X11.D				
Injection Date:	31-Jan-2023 14:09:30	Instrument ID:	16334		
Lims ID:	410-113568-A-4	Lab Sample ID:	410-113568-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

$ 59 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

Signal: 1

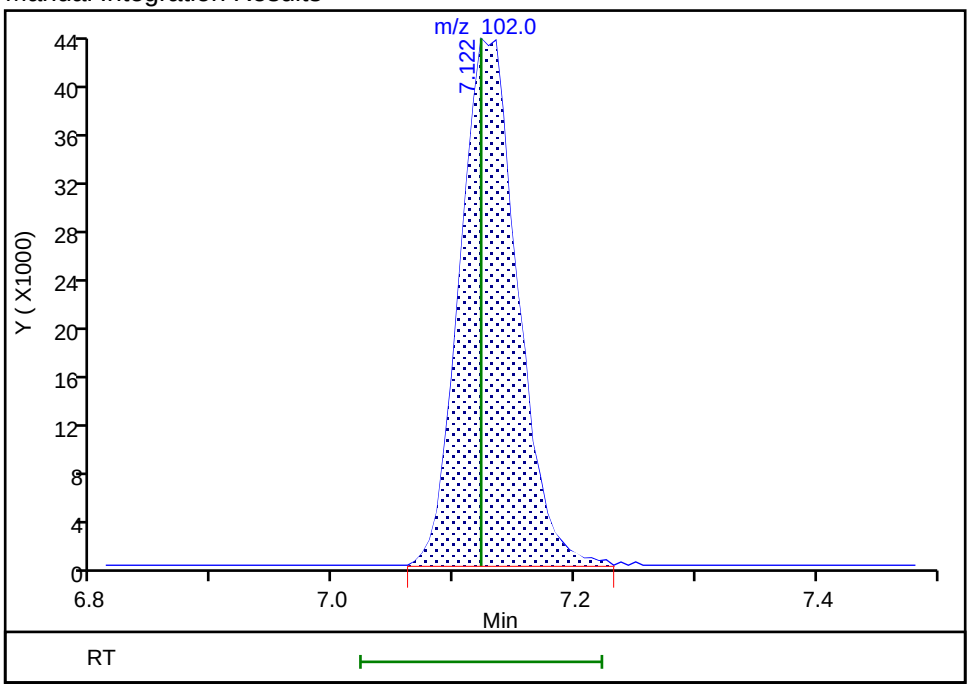
Processing Integration Results

RT: 7.12
Area: 78583
Amount: 5.698219
Amount Units: ug/l



Manual Integration Results

RT: 7.12
Area: 145059
Amount: 10.518534
Amount Units: ug/l



Reviewer: kaewrungrueangp, 01-Feb-2023 09:15:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

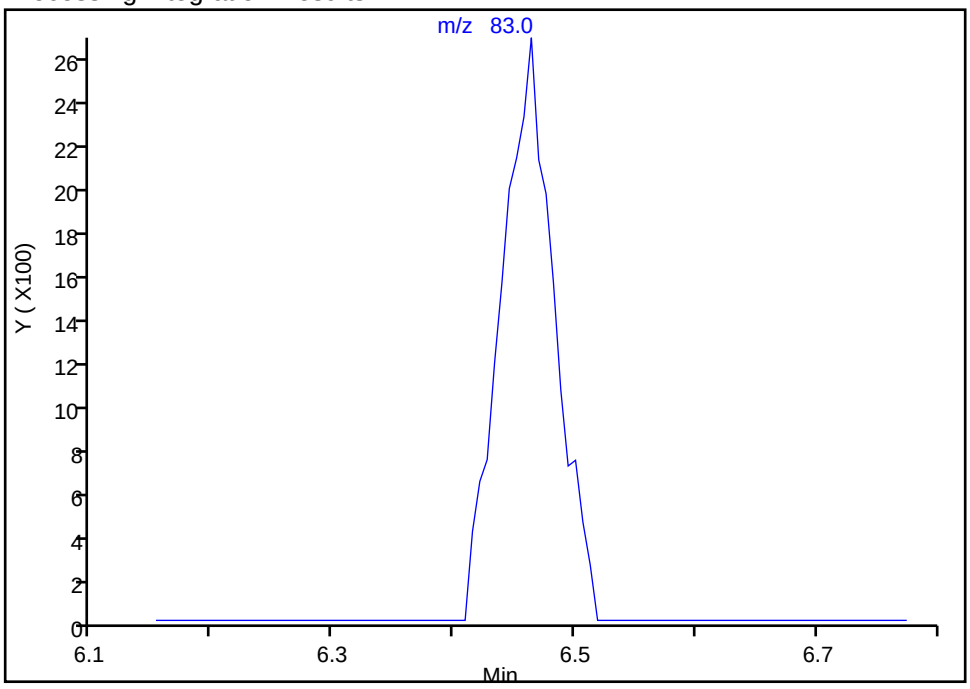
Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X11.D				
Injection Date:	31-Jan-2023 14:09:30	Instrument ID:	16334		
Lims ID:	410-113568-A-4	Lab Sample ID:	410-113568-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

51 Chloroform, CAS: 67-66-3

Signal: 1

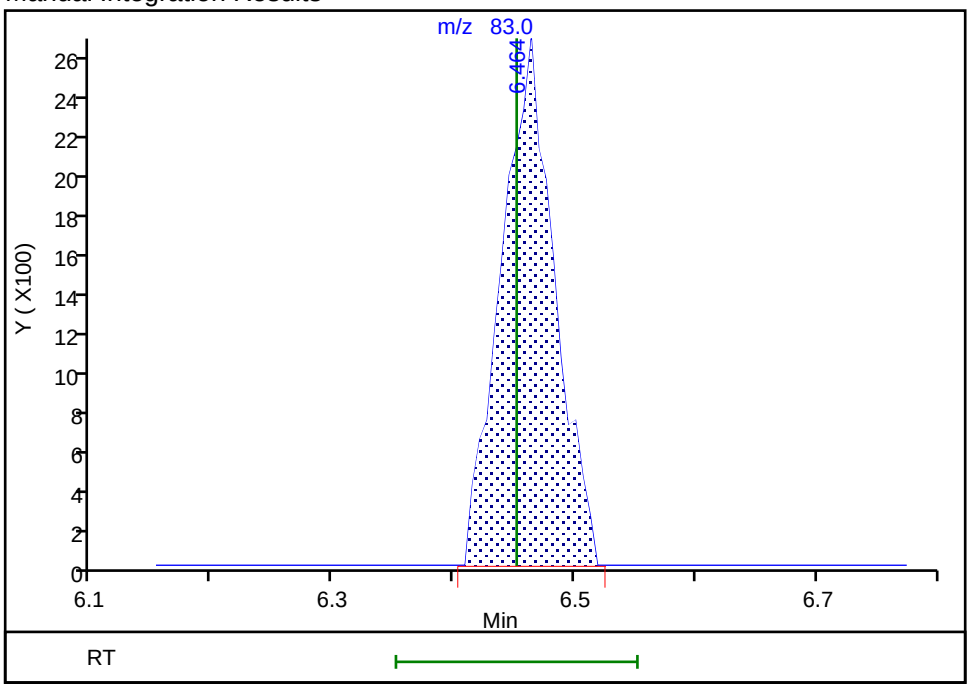
Not Detected
Expected RT: 6.45

Processing Integration Results



Manual Integration Results

RT: 6.46
Area: 8141
Amount: 0.062624
Amount Units: ug/l



Reviewer: kaewrungrueangp, 01-Feb-2023 09:15:58
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

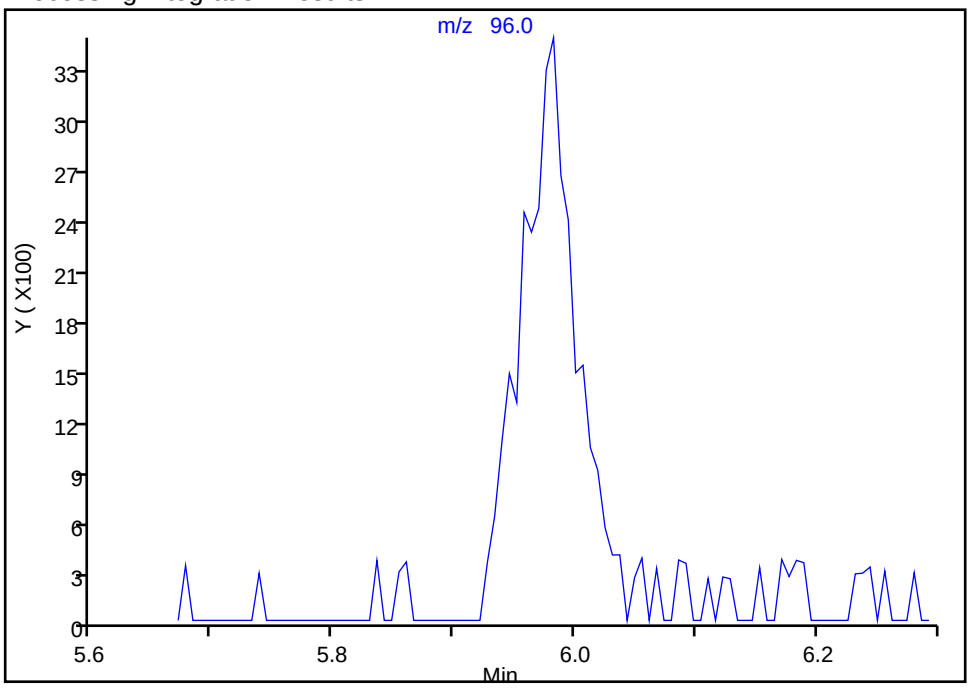
Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X11.D				
Injection Date:	31-Jan-2023 14:09:30	Instrument ID:	16334		
Lims ID:	410-113568-A-4	Lab Sample ID:	410-113568-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

Signal: 1

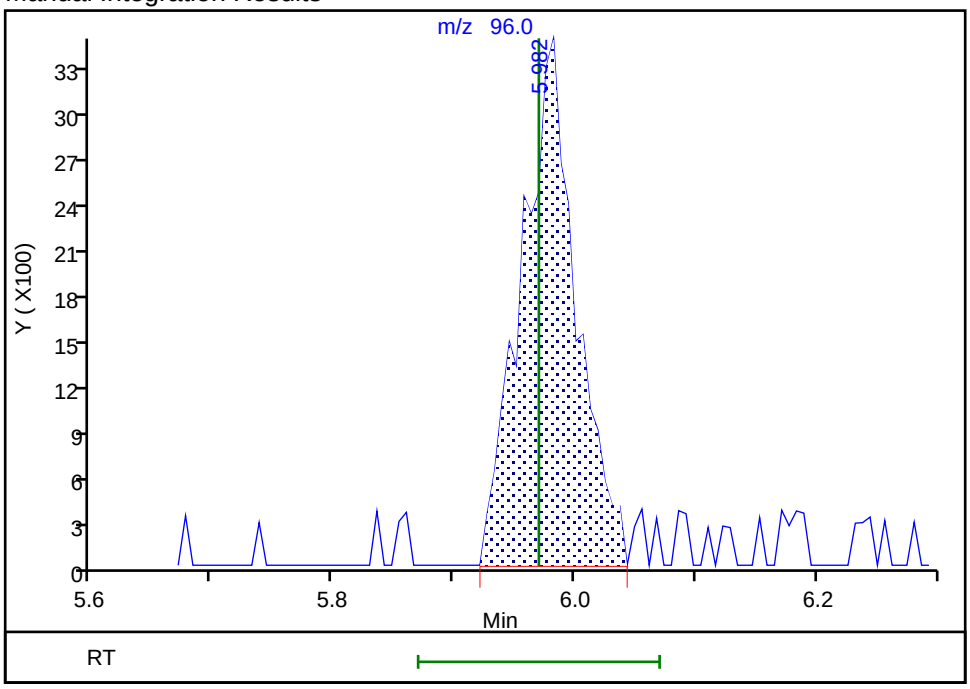
Not Detected
Expected RT: 5.97

Processing Integration Results



Manual Integration Results

RT: 5.98
Area: 11060
Amount: 0.136870
Amount Units: ug/l



Reviewer: kaewrungrueangp, 01-Feb-2023 09:15:53
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.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-13-0/1-0
Lab Sample ID: 410-113568-5

Matrix: Water
Lab File ID: GJ31X12.D

Analysis Method: 8260D
Date Collected: 01/25/2023 09:18

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 14:31

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 340101
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	1.1	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	^c cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.15	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.55		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.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-13-0/1-0
Lab Sample ID: 410-113568-5

Matrix: Water
Lab File ID: GJ31X12.D

Analysis Method: 8260D
Date Collected: 01/25/2023 09:18

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 14:31

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 340101
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)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X12.D
Lims ID: 410-113568-A-5
Client ID: HD-COD-SW-13-0/1-0
Sample Type: Client
Inject. Date: 31-Jan-2023 14:31:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076112-013
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Feb-2023 09:16:53 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1655

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:16:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.081	2.093	-0.012	89	4203	0.0381	
6 Vinyl chloride	62		2.203				ND	7
9 Bromomethane	94		2.532				ND	
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96		3.428				ND	
19 Acetone	43	3.465	3.452	0.013	99	13409	1.08	
24 Carbon disulfide	76		3.714				ND	7
29 Methylene Chloride	84		4.068				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.086	4.074	0.012	1	220885	50.0	
33 Methyl tert-butyl ether	73		4.464				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63		5.135				ND	
41 2-Butanone (MEK)	43		5.940				ND	
42 cis-1,2-Dichloroethene	96	5.976	5.970	0.006	78	12037	0.1477	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.458	6.452	0.006	90	5123	0.0391	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.671	0.000	94	694170	10.3	
53 1,1,1-Trichloroethane	97		6.683				ND	
55 Carbon tetrachloride	117		6.897				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.122	7.122	0.000	21	147423	10.6	
60 Benzene	78		7.159				ND	7
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.561	0.006	99	2797918	10.0	
68 Trichloroethene	95	8.043	8.043	0.000	99	12985	0.1587	a
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	7
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	7
$ 83 Toluene-d8 (Surr)	98	9.591	9.591	0.000	94	2791337	9.89	
84 Toluene	92		9.671				ND	7
85 trans-1,3-Dichloropropene	75		9.933				ND	
107 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	10.225	10.225	0.000	98	51363	0.5496	
110 2-Hexanone	43		10.359				ND	
112 Chlorodibromomethane	129		10.518				ND	
113 Ethylene Dibromide	107		10.628				ND	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	86	2135512	10.0	
116 Chlorobenzene	112		11.091				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
118 Ethylbenzene	91		11.176				ND	
S 119 Xylenes, Total	106		11.245				ND	7
120 m-Xylene & p-Xylene	106		11.292				ND	7
121 o-Xylene	106		11.621				ND	7
122 Styrene	104		11.640				ND	
123 Bromoform	173		11.792				ND	
$ 127 4-Bromofluorobenzene (Surr)	95	12.067	12.066	0.001	91	1018307	9.80	
128 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	1217476	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

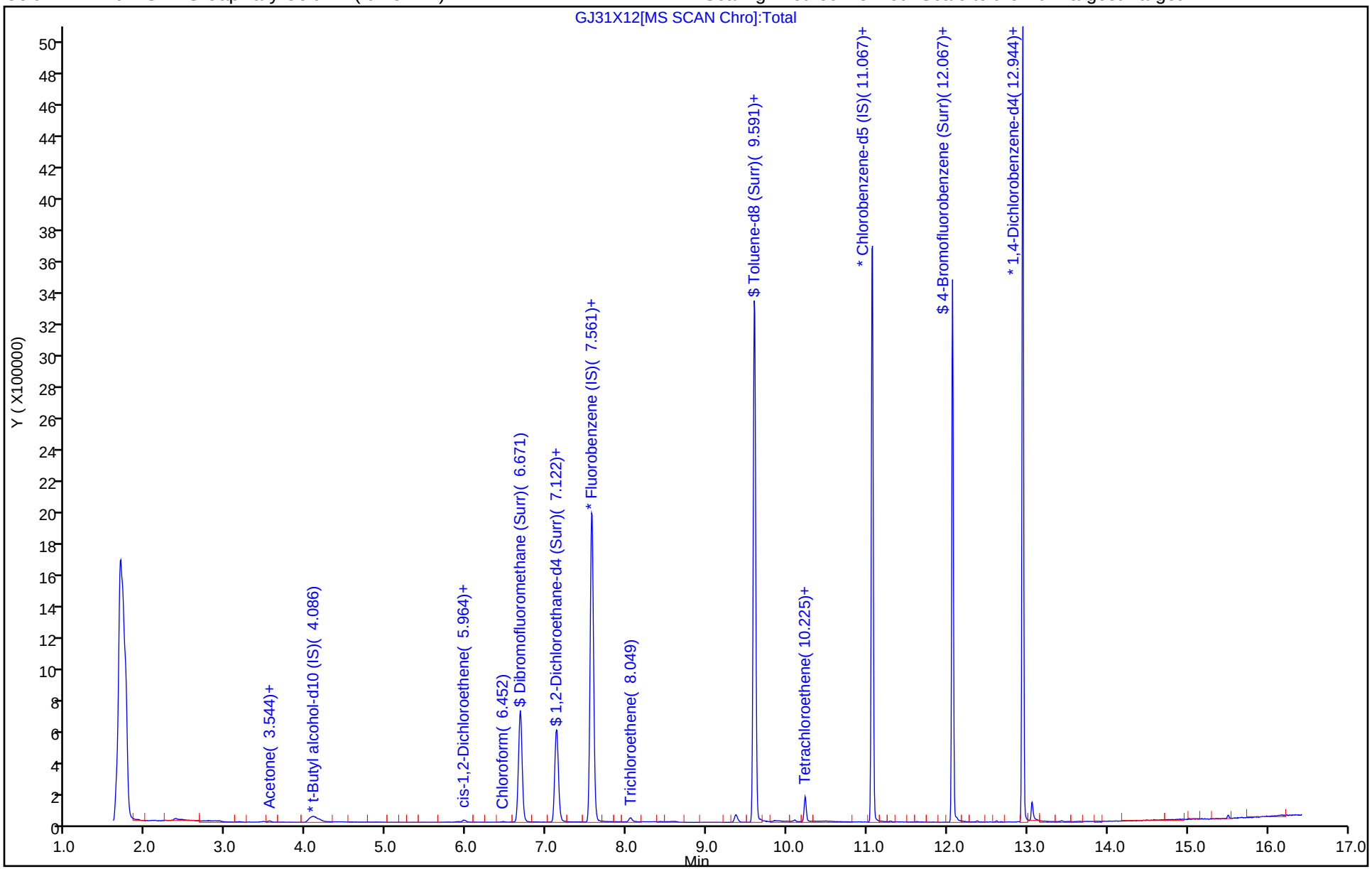
MSV_29_826ISS_00037 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 01-Feb-2023 09:16:53 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X12.D				
Injection Date:	31-Jan-2023 14:31:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-113568-A-5	Lab Sample ID:	410-113568-5	Worklist Smp#:	13
Client ID:	HD-COD-SW-13-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X12.D				
Lims ID:	410-113568-A-5				
Client ID:	HD-COD-SW-13-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Jan-2023 14:31:30	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0076112-013				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Feb-2023 09:16:53	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1655				

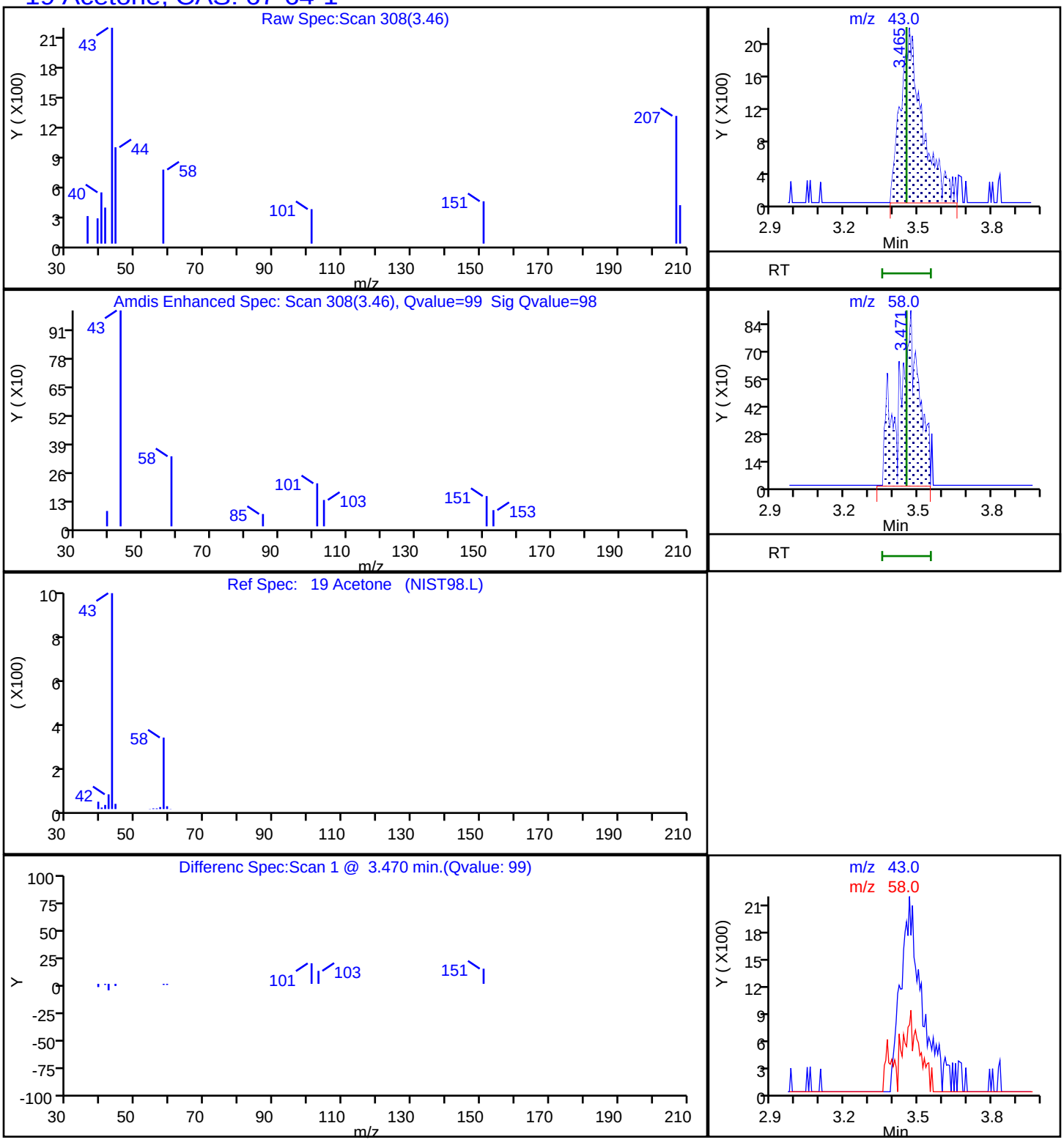
First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:16:53

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	103.36
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	106.02
$ 83 Toluene-d8 (Surr)	10.0	9.89	98.92
$ 127 4-Bromofluorobenzene (Surr)	10.0	9.80	98.04

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X12.D				
Injection Date:	31-Jan-2023 14:31:30	Instrument ID:	16334		
Lims ID:	410-113568-A-5	Lab Sample ID:	410-113568-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

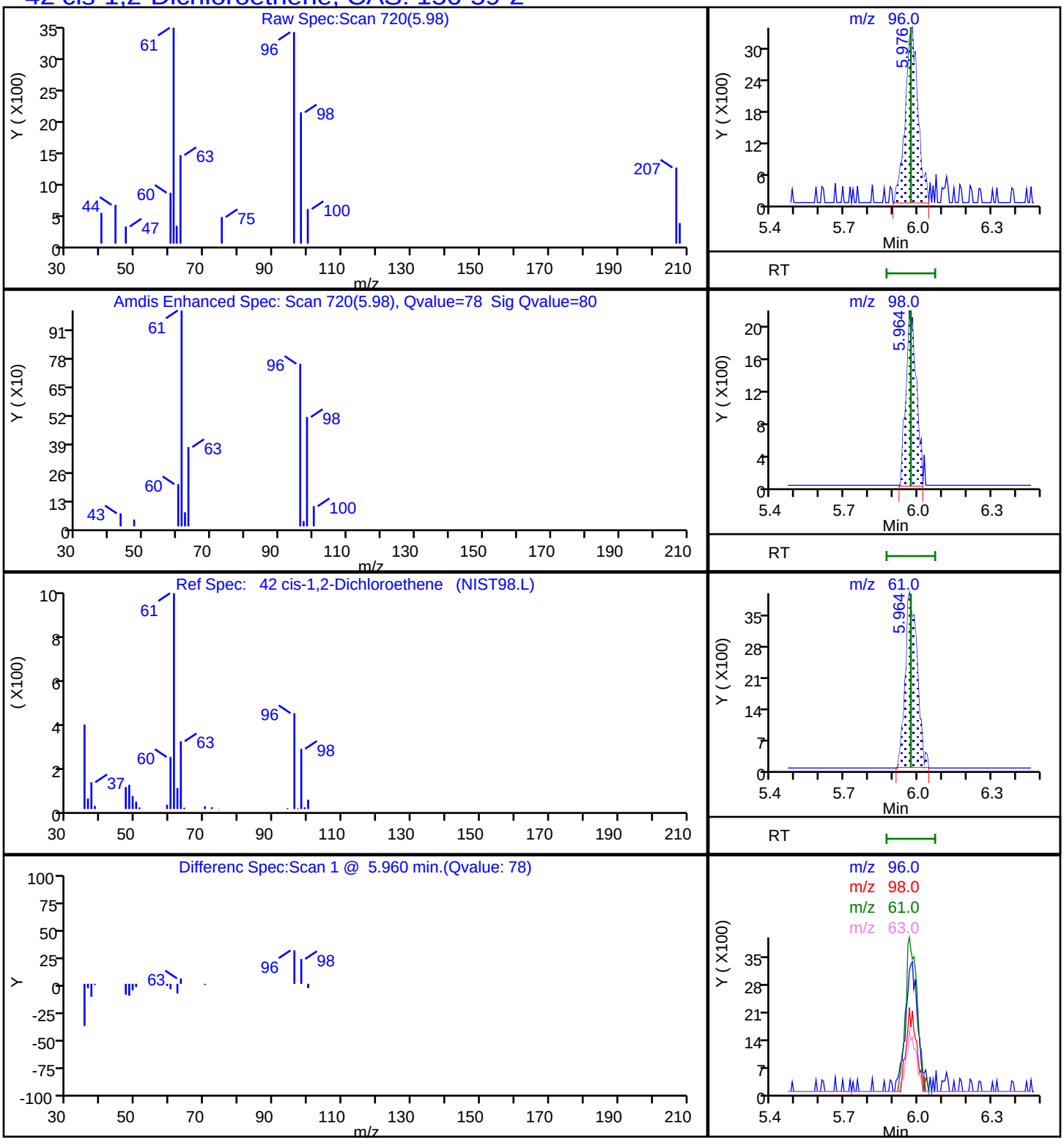
19 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X12.D				
Injection Date:	31-Jan-2023 14:31:30	Instrument ID:	16334		
Lims ID:	410-113568-A-5	Lab Sample ID:	410-113568-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

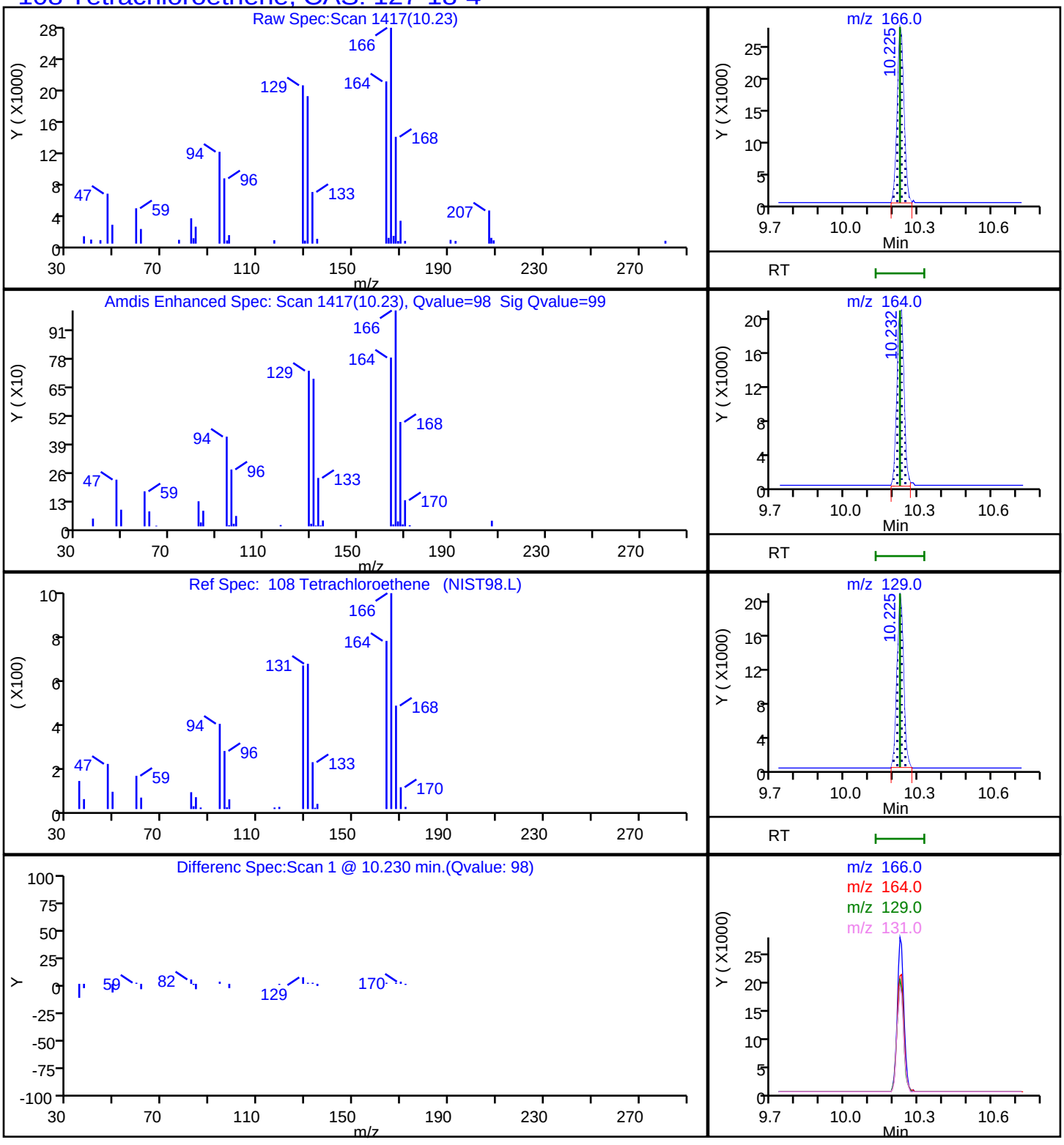
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X12.D				
Injection Date:	31-Jan-2023 14:31:30	Instrument ID:	16334		
Lims ID:	410-113568-A-5	Lab Sample ID:	410-113568-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

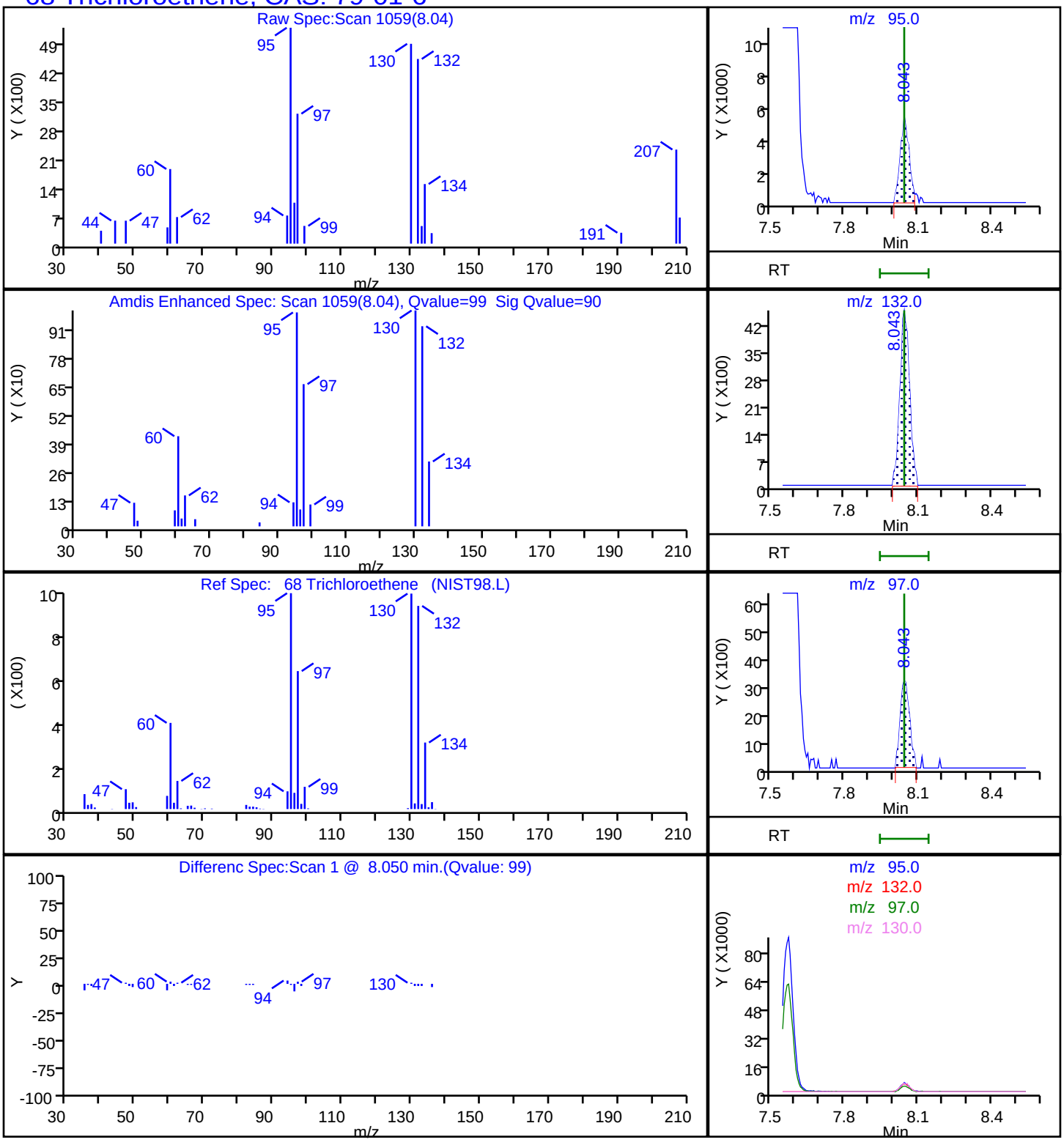
108 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X12.D				
Injection Date:	31-Jan-2023 14:31:30	Instrument ID:	16334		
Lims ID:	410-113568-A-5	Lab Sample ID:	410-113568-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

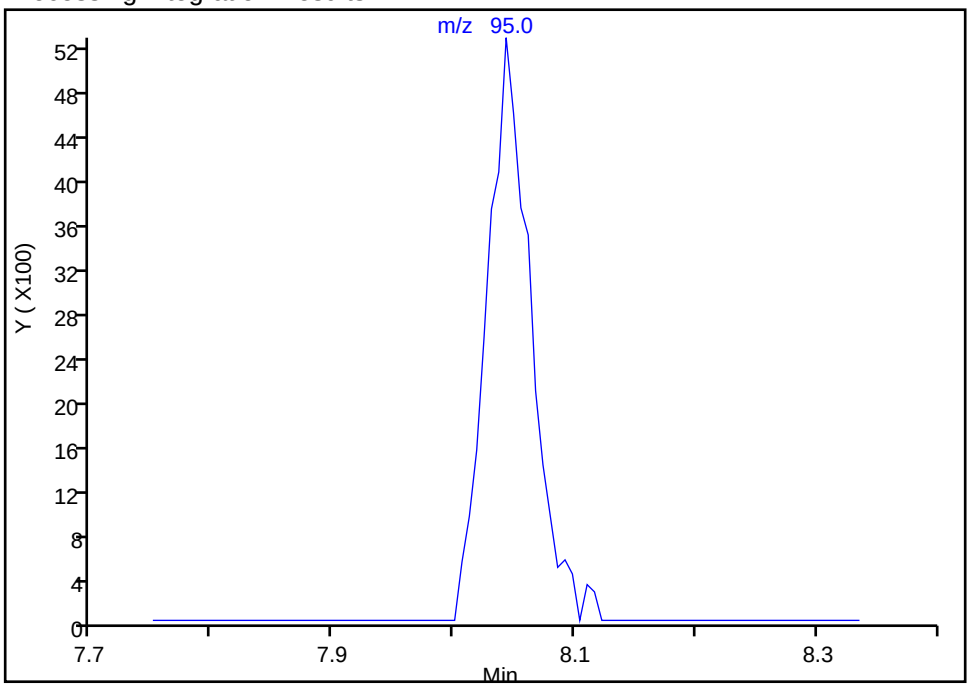
Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X12.D				
Injection Date:	31-Jan-2023 14:31:30	Instrument ID:	16334		
Lims ID:	410-113568-A-5	Lab Sample ID:	410-113568-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6

Signal: 1

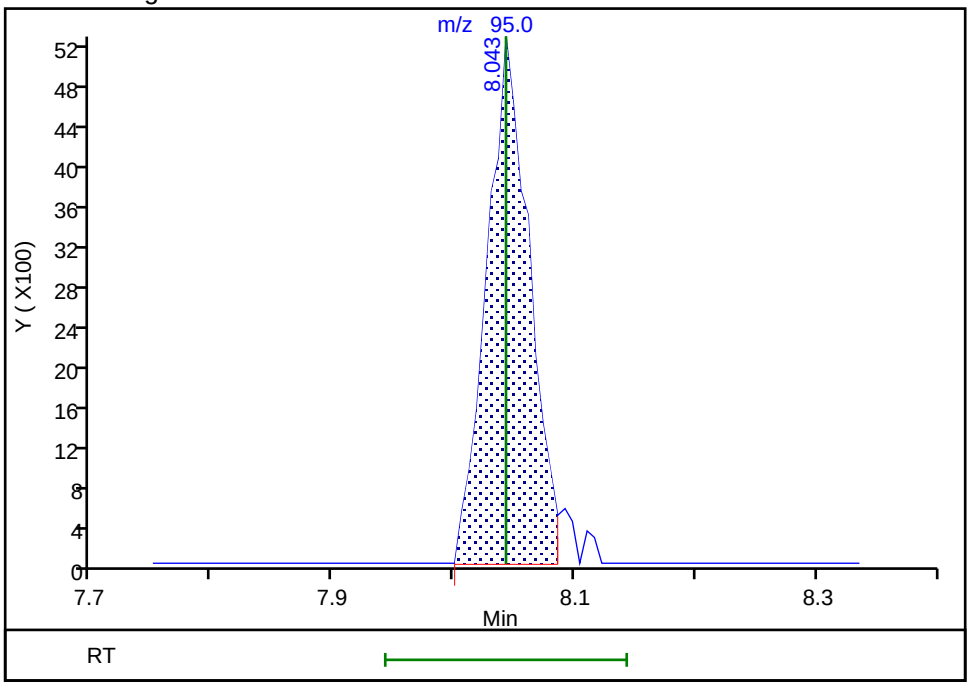
Not Detected
Expected RT: 8.04

Processing Integration Results



Manual Integration Results

RT: 8.04
Area: 12985
Amount: 0.158686
Amount Units: ug/l



Reviewer: kaewrungrueangp, 01-Feb-2023 09:16:40
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0
Lab Sample ID: 410-113568-6

Matrix: Water
Lab File ID: GJ31X13.D

Analysis Method: 8260D
Date Collected: 01/25/2023 11:40

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 14:53

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.: 340101
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	0.37	J	0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	0.14	J	0.50	0.10
75-35-4	1,1-Dichloroethene	0.19	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	1.1	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	^c cn	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	0.27	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	2.3		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	5.5		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.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0
Lab Sample ID: 410-113568-6

Matrix: Water
Lab File ID: GJ31X13.D

Analysis Method: 8260D
Date Collected: 01/25/2023 11:40

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 14:53

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.: 340101
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	1.8		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X13.D
Lims ID: 410-113568-A-6
Client ID: HD-COD-SW-15-0/1-0
Sample Type: Client
Inject. Date: 31-Jan-2023 14:53:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076112-014
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Feb-2023 09:18:14 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1655

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:18:14

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	1 Chlorotrifluoroethene	116		1.867				ND	
	2 Dichlorodifluoromethane	85		1.898				ND	
	3 Chlorodifluoromethane	51		1.916				ND	7
	4 Dimethyl ether	45		1.983				ND	7
	5 Chloromethane	50		2.093				ND	7
	6 Vinyl chloride	62		2.203				ND	7
	7 Butadiene	39		2.221				ND	7
	8 2-Chloro-1,1,1-Trifluoroethane	118		2.294				ND	
	9 Bromomethane	94		2.532				ND	7
	10 Chloroethane	64		2.605				ND	
	11 Dichlorofluoromethane	67		2.843				ND	7
	12 Trichlorofluoromethane	101		2.904				ND	
	13 Ethyl ether	59		3.129				ND	
	14 Ethanol	45	3.202	3.190	0.012	1	202	NC	
T	15 Ethanol TIC	45		3.190				ND	7
	16 1,2-Dichloro-1,1,2-trifluoroetha	67		3.227				ND	7
	17 Acrolein	56		3.294				ND	7
	18 1,1-Dichloroethene	96	3.428	3.428	0.000	96	12485	0.1912	
	19 Acetone	43	3.477	3.452	0.025	70	11448	1.05	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.471				ND	
	21 Isopropyl alcohol	45		3.599				ND	U
	22 Iodomethane	142		3.617				ND	
	23 Ethyl bromide	108		3.641				ND	
	24 Carbon disulfide	76		3.714				ND	
	25 Methyl acetate	43		3.842				ND	7
	26 Acetonitrile	41		3.873				ND	7
	27 3-Chloro-1-propene	41		3.885				ND	
T	28 Acetonitrile TIC	41	3.928	3.961	-0.033	6	99	0.000353	
	29 Methylene Chloride	84		4.068				ND	
*	30 t-Butyl alcohol-d10 (IS)	65	4.099	4.074	0.025	1	194175	50.0	
	31 2-Methyl-2-propanol	59		4.208				ND	
	32 Acrylonitrile	53		4.391				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73	4.477	4.464	0.012	86	6977	0.0394	
34 trans-1,2-Dichloroethene	96		4.464				ND	
35 Hexane	57		4.891				ND	
36 Vinyl acetate	43		5.123				ND	
37 1,1-Dichloroethane	63	5.141	5.135	0.006	94	18436	0.1409	
38 Isopropyl ether	45		5.196				ND	
39 2-Chloro-1,3-butadiene	53		5.245				ND	
40 Tert-butyl ethyl ether	59		5.732				ND	U
41 2-Butanone (MEK)	43		5.940				ND	
42 cis-1,2-Dichloroethene	96	5.976	5.970	0.006	80	185363	2.27	
43 2,2-Dichloropropane	77		5.988				ND	
44 Ethyl acetate	43		6.007				ND	7
45 Propionitrile	54		6.025				ND	
46 Methyl acrylate	55		6.141				ND	
S 47 1,2-Dichloroethene, Total	100				0		2.27	
48 Methacrylonitrile	67		6.244				ND	
49 Chlorobromomethane	128		6.299				ND	
50 Tetrahydrofuran	71		6.305				ND	
51 Chloroform	83	6.464	6.452	0.012	93	34825	0.2650	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	93	698656	10.4	
53 1,1,1-Trichloroethane	97	6.689	6.683	0.006	50	42129	0.3721	
54 Cyclohexane	56		6.775				ND	
56 1,1-Dichloropropene	75		6.897				ND	
55 Carbon tetrachloride	117	6.897	6.897	0.000	91	4145	0.0416	M
57 1-Chlorobutane	56		6.940				ND	
58 Isobutyl alcohol	41		7.061				ND	7
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.122	0.006	30	144040	10.3	
60 Benzene	78		7.159				ND	
61 1,2-Dichloroethane	62		7.226				ND	7
62 Isopropyl acetate	43		7.244				ND	
63 Tert-amyl methyl ether	73		7.348				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.561	0.006	99	2804894	10.0	
65 n-Heptane	43		7.580				ND	7
66 t-Amyl alcohol	73		7.842				ND	
67 n-Butanol	56		7.951				ND	
68 Trichloroethene	95	8.049	8.043	0.006	98	148199	1.81	
69 Methylcyclohexane	83		8.348				ND	
70 1,2-Dichloropropane	63		8.378				ND	
71 2-ethoxy-2-methyl butane	87		8.390				ND	
72 Methyl methacrylate	69		8.464				ND	
73 1,4-Dioxane	88		8.476				ND	
74 Dibromomethane	93		8.482				ND	
75 n-Propyl acetate	61		8.549				ND	
76 Dichlorobromomethane	83		8.726				ND	
77 2-Nitropropane	41		9.000				ND	
78 2-Chloroethyl vinyl ether	63		9.098				ND	
79 1-Bromo-2-chloroethane	63		9.116				ND	
80 Chloroacetonitrile	75		9.189				ND	
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	
$ 83 Toluene-d8 (Surr)	98	9.597	9.591	0.006	94	2783408	9.81	
84 Toluene	92		9.671				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 trans-1,3-Dichloropropene	75		9.933				ND	
86 Ethyl methacrylate	69		10.000				ND	
T 93 Monochloroacetic acid TIC	50		10.000				ND	
T 92 2-Bromoethanol TIC	45	10.006	10.000	0.006	1	219	0.000781	
T 91 Epichlorohydrin TIC	57		10.000				ND	
T 87 Chloroacetaldehyde TIC	50	9.896	10.000	-0.104	1	1010	0.003601	
T 89 Vinyl bromide TIC	106	11.176	10.000	1.176	1	110	0.000392	
T 88 Hexachloroethane TIC	117	10.231	10.000	0.231	12	4209	0.0150	
T 94 Isopropyl alcohol TIC	45	10.006	10.000	0.006	1	219	0.000781	
T 96 Methyl acrylate TIC	55	9.841	10.000	-0.159	1	407	0.001451	
T 105 Vinyl acetate (TIC)	43		10.000				ND	
T 99 2,3-Dibromopropene TIC	119	10.225	10.000	0.225	1	4365	0.0156	
T 102 3-Chloro-1,2-propanediol TIC	43		10.000				ND	
T 90 Nitrobenzene TIC	77	9.969	10.000	-0.031	1	242	0.000863	
T 98 Epibromohydrin TIC	57	9.604	10.000	-0.396	15	1985	0.007077	
T 104 Ethylene oxide TIC	43	9.591	10.000	-0.409	24	11978	0.0427	
T 103 Decamethylcyclopentasiloxane TIC	73	9.604	10.000	-0.396	1	432	0.001540	
T 97 2-Bromo-3-chloropropene TIC	75	9.604	10.000	-0.396	1	106	0.000378	
T 101 2-Chloroethanol TIC	44	10.110	10.000	0.110	1	597	0.002128	
T 100 Octamethylcyclotetrasiloxane TIC	281	12.115	10.000	2.115	83	6280	0.0224	
T 95 2,3-Dibromo-1-propanol TIC	57	9.604	10.000	-0.396	1	1985	0.007077	
S 106 1,3-Dichloropropene, Total	100		10.060				ND	7
107 1,1,2-Trichloroethane	97	10.146	10.140	0.006	0	1489	0.0254	
108 Tetrachloroethene	166	10.231	10.225	0.006	98	520925	5.54	
109 1,3-Dichloropropane	76		10.305				ND	
110 2-Hexanone	43		10.359				ND	
111 n-Butyl acetate	43		10.487				ND	
112 Chlorodibromomethane	129		10.518				ND	
113 Ethylene Dibromide	107		10.628				ND	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	86	2147498	10.0	
115 1-Chlorohexane	91		11.079				ND	7
116 Chlorobenzene	112		11.091				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	7
118 Ethylbenzene	91		11.176				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
120 m-Xylene & p-Xylene	106		11.292				ND	7
121 o-Xylene	106		11.621				ND	
122 Styrene	104		11.640				ND	
123 Bromoform	173		11.792				ND	
124 Isopropylbenzene	105		11.926				ND	
125 cis-1,4-Dichloro-2-butene	88		11.987				ND	
126 Cyclohexanone	55		12.018				ND	7
$ 127 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	92	1008408	9.65	
128 1,1,2,2-Tetrachloroethane	83		12.170				ND	
129 Bromobenzene	156		12.182				ND	
130 trans-1,4-Dichloro-2-butene	53		12.194				ND	
131 1,2,3-Trichloropropane	110		12.213				ND	
132 N-Propylbenzene	91		12.249				ND	
133 2-Chlorotoluene	126		12.329				ND	
134 1,3,5-Trimethylbenzene	105		12.390				ND	
135 4-Chlorotoluene	126		12.420				ND	
136 tert-Butylbenzene	134		12.627				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
137 Pentachloroethane	167		12.658				ND	
138 1,2,4-Trimethylbenzene	105		12.670				ND	7
139 sec-Butylbenzene	105		12.792				ND	
140 1,3-Dichlorobenzene	146		12.889				ND	7
141 4-Isopropyltoluene	119		12.896				ND	7
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	1223475	10.0	
143 1,4-Dichlorobenzene	146		12.963				ND	7
144 1,2,3-Trimethylbenzene	120		12.975				ND	7
145 Benzyl chloride	126		13.042				ND	7
146 p-Diethylbenzene	119		13.097				ND	
147 n-Butylbenzene	92		13.188				ND	
148 1,2-Dichlorobenzene	146		13.219				ND	
149 Hexachloroethane	201		13.499				ND	
150 1,2-Dibromo-3-Chloropropane	155		13.761				ND	
151 1,3,5-Trichlorobenzene	180		13.883				ND	
152 1,2,4-Trichlorobenzene	180		14.304				ND	
153 Hexachlorobutadiene	225		14.389				ND	
154 Naphthalene	128		14.481				ND	7
155 1,2,3-Trichlorobenzene	180		14.621				ND	
156 2-Methylnaphthalene	142		15.224				ND	
157 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
158 1-Chloropropane	1		0.000				ND	
159 1-Bromo-3-Chloropropane	1		0.000				ND	
160 Propene oxide	1		0.000				ND	
161 n-Decane	57		0.000				ND	
162 Methylal	1		0.000				ND	
163 tert-Butyl Formate	1		0.000				ND	
164 1,1-Dichloroacetone	1		0.000				ND	
165 Dodecane	57		0.000				ND	
166 2-Bromo-1-chloropropane	1		0.000				ND	
167 Pentane	43	2.910	2.928	-0.018	1	364	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard
NC - Not Calibrated
7 - Failed Limit of Detection

Review Flags

M - Manually Integrated
U - Marked Undetected

Reagents:

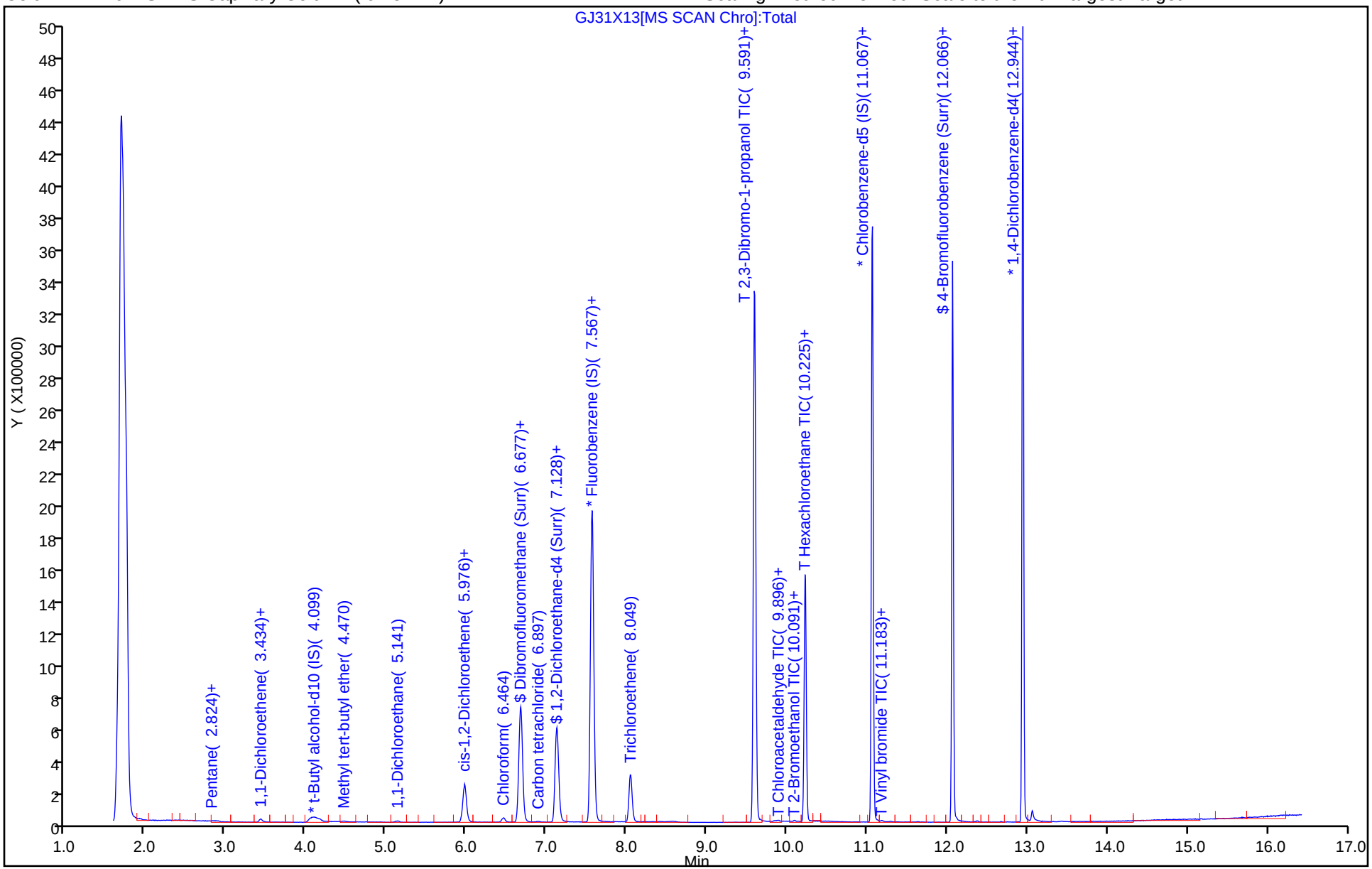
MSV_29_826ISS_00037 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 01-Feb-2023 09:18:14 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X13.D				
Injection Date:	31-Jan-2023 14:53:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-113568-A-6	Lab Sample ID:	410-113568-6	Worklist Smp#:	14
Client ID:	HD-COD-SW-15-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X13.D				
Lims ID:	410-113568-A-6				
Client ID:	HD-COD-SW-15-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Jan-2023 14:53:30	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0076112-014				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Feb-2023 09:18:14	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1655				

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:18:14

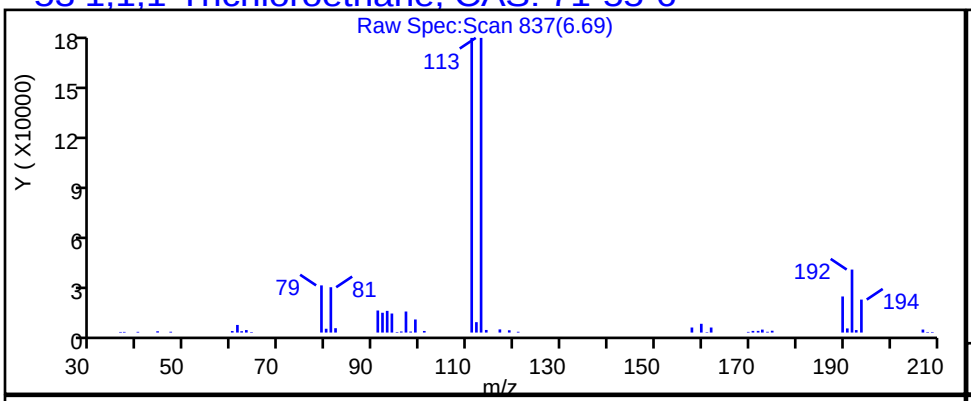
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.4	103.77
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.33
$ 83 Toluene-d8 (Surr)	10.0	9.81	98.09
$ 127 4-Bromofluorobenzene (Surr)	10.0	9.65	96.55

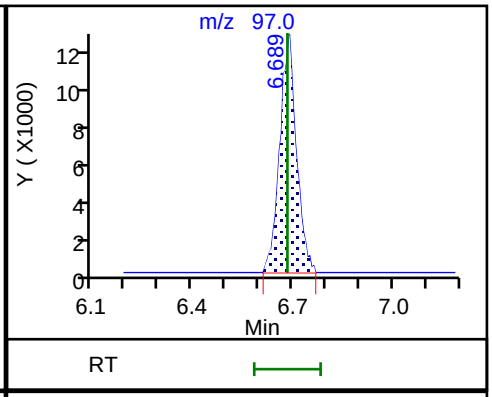
Report Date: 01-Feb-2023 09:18:14 Chrom Revision: 2.3 28-Jan-2023 14:03:14

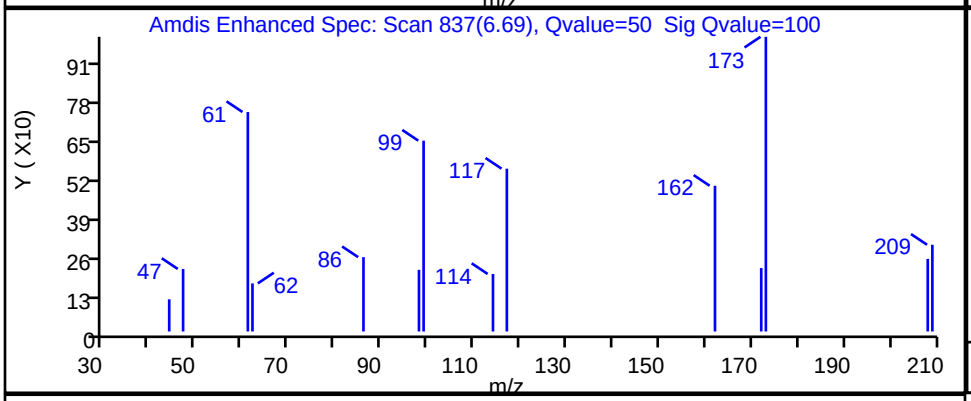
Eurofins Lancaster Laboratories Environment Testing, LLC

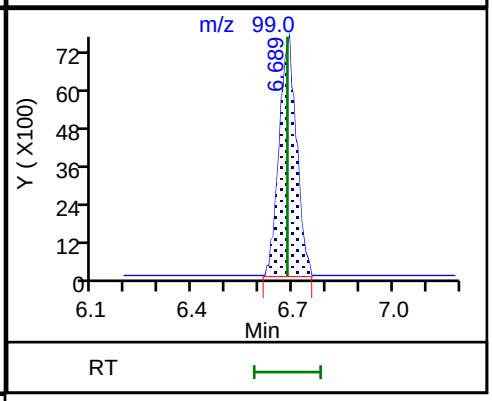
Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X13.D				
Injection Date:	31-Jan-2023 14:53:30	Instrument ID:	16334		
Lims ID:	410-113568-A-6	Lab Sample ID:	410-113568-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

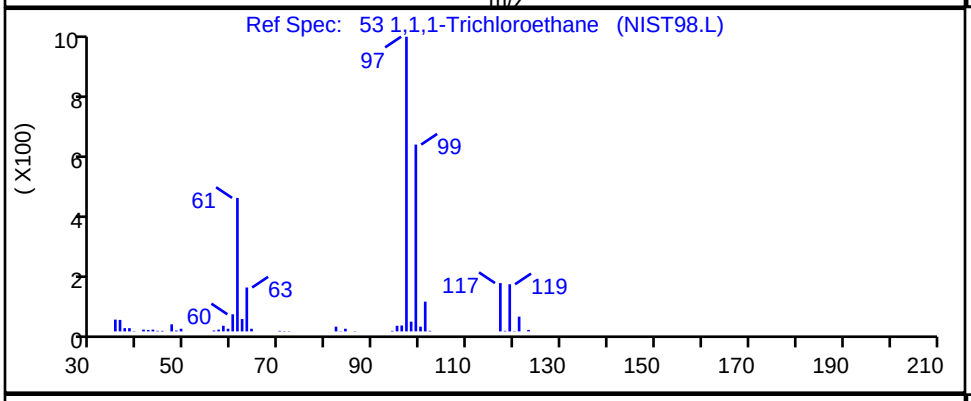
53 1,1,1-Trichloroethane, CAS: 71-55-6

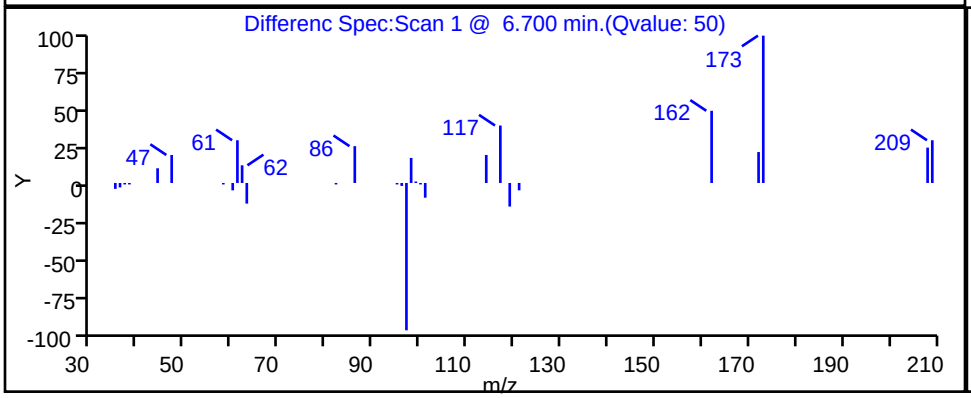


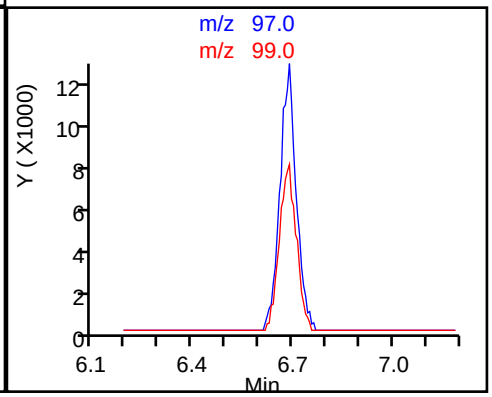








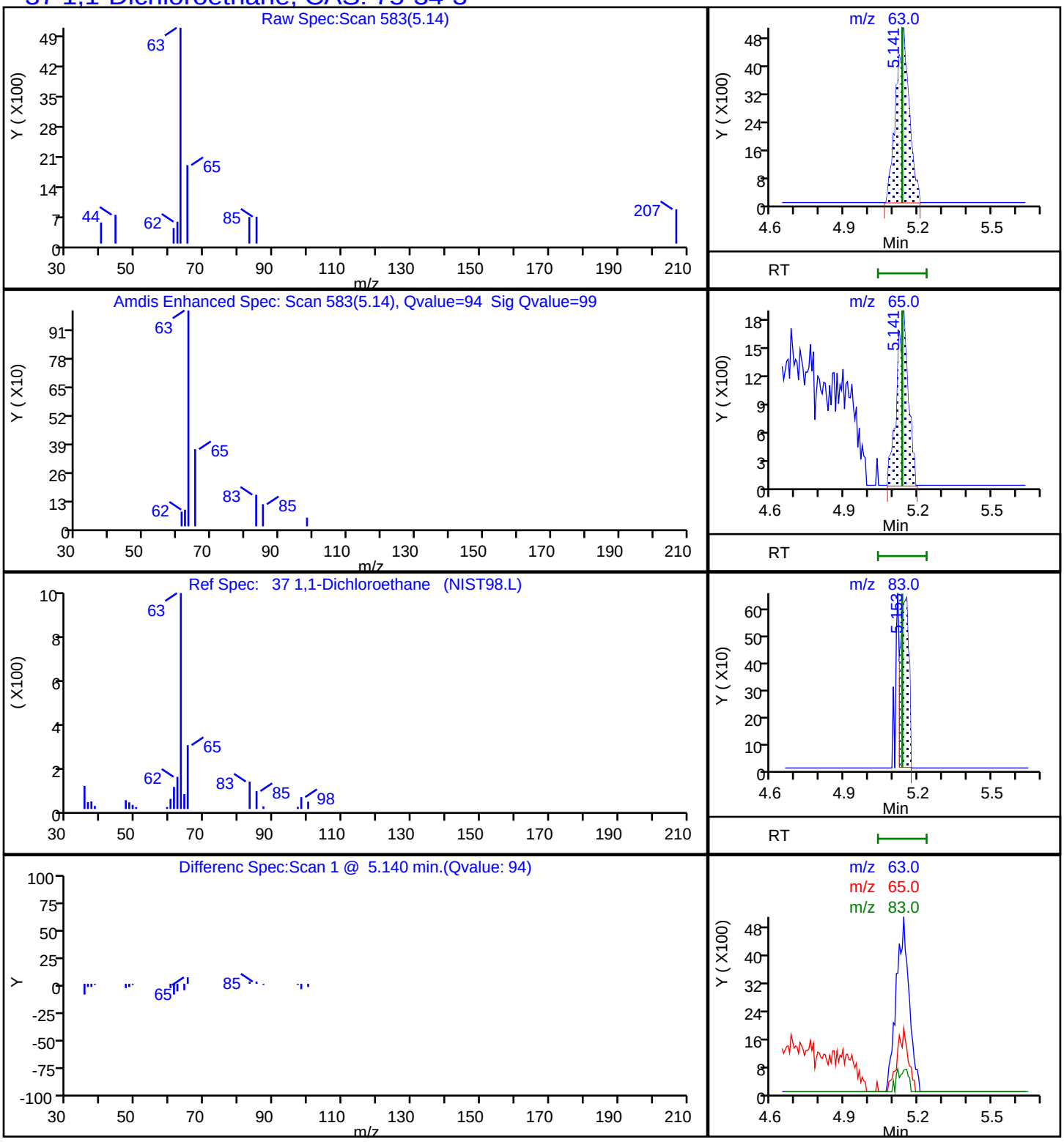




Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X13.D
Injection Date: 31-Jan-2023 14:53:30 Instrument ID: 16334
Lims ID: 410-113568-A-6 Lab Sample ID: 410-113568-6
Client ID: HD-COD-SW-15-0/1-0
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

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



Report Date: 01-Feb-2023 09:18:14 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X13.D

Injection Date: 31-Jan-2023 14:53:30 Instrument ID: 16334

Lims ID: 410-113568-A-6 Lab Sample ID: 410-113568-6

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

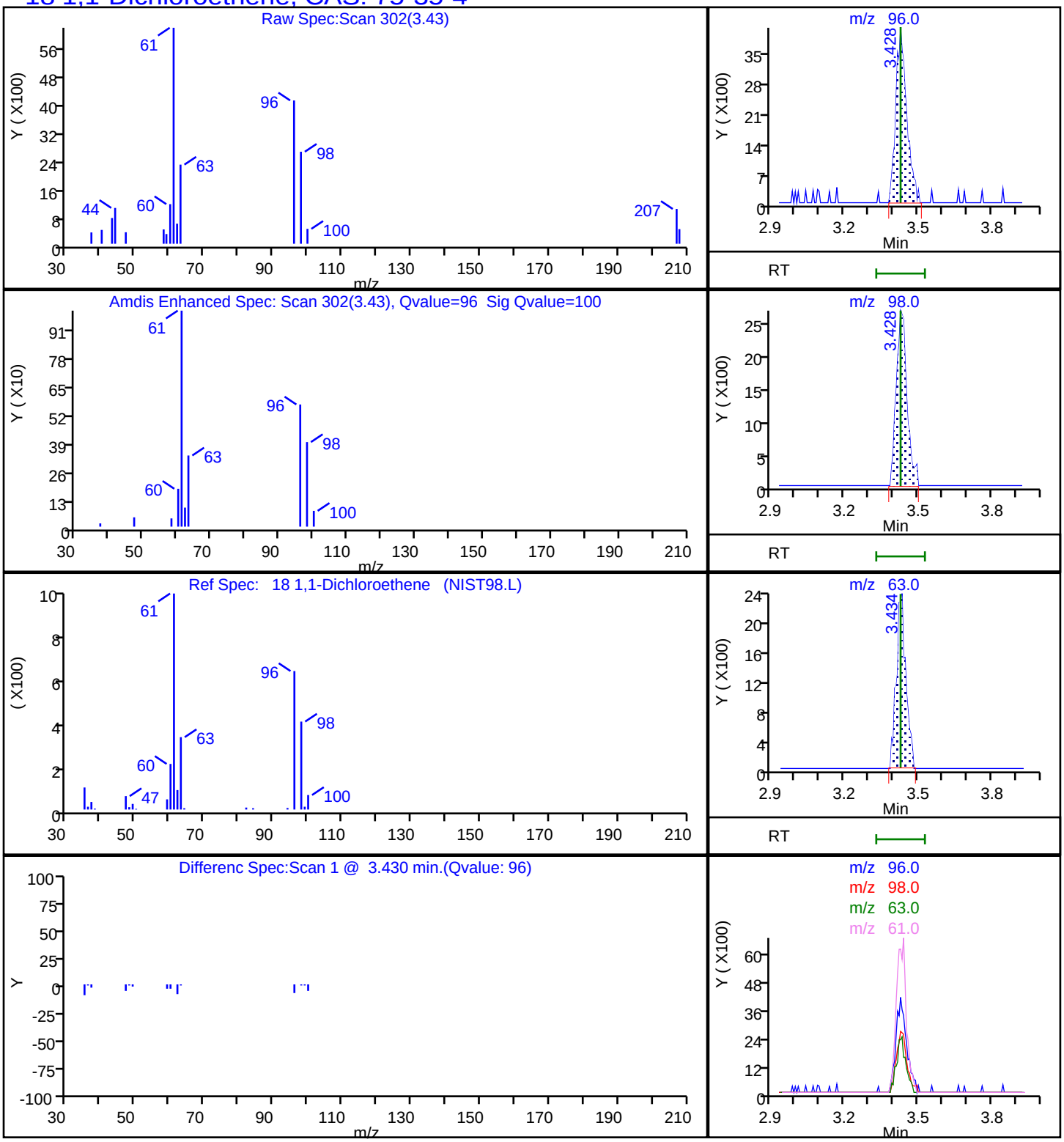
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_16334_25mL Limit Group: MSV - 8260C_D

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

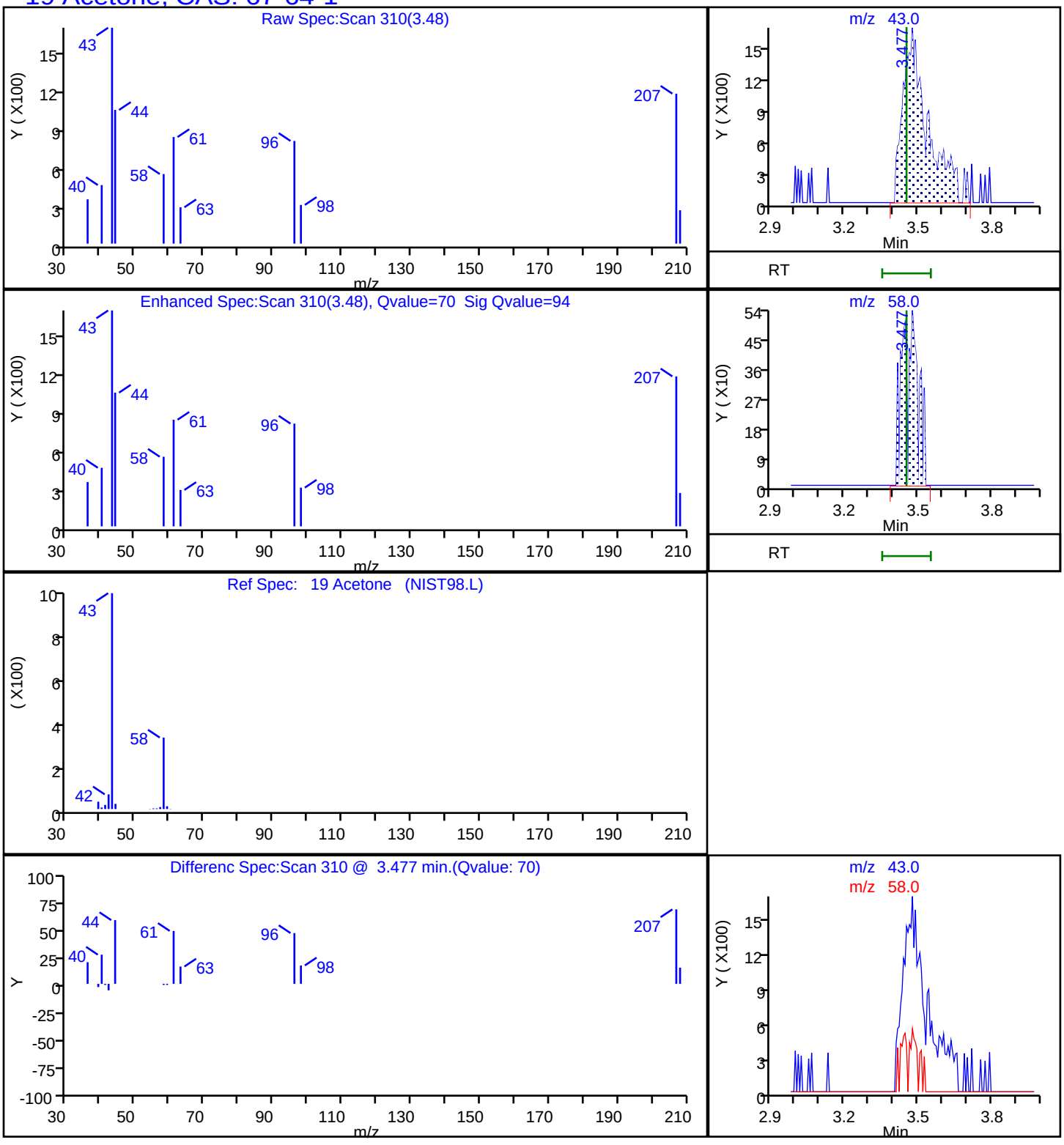
18 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X13.D				
Injection Date:	31-Jan-2023 14:53:30	Instrument ID:	16334		
Lims ID:	410-113568-A-6	Lab Sample ID:	410-113568-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

19 Acetone, CAS: 67-64-1

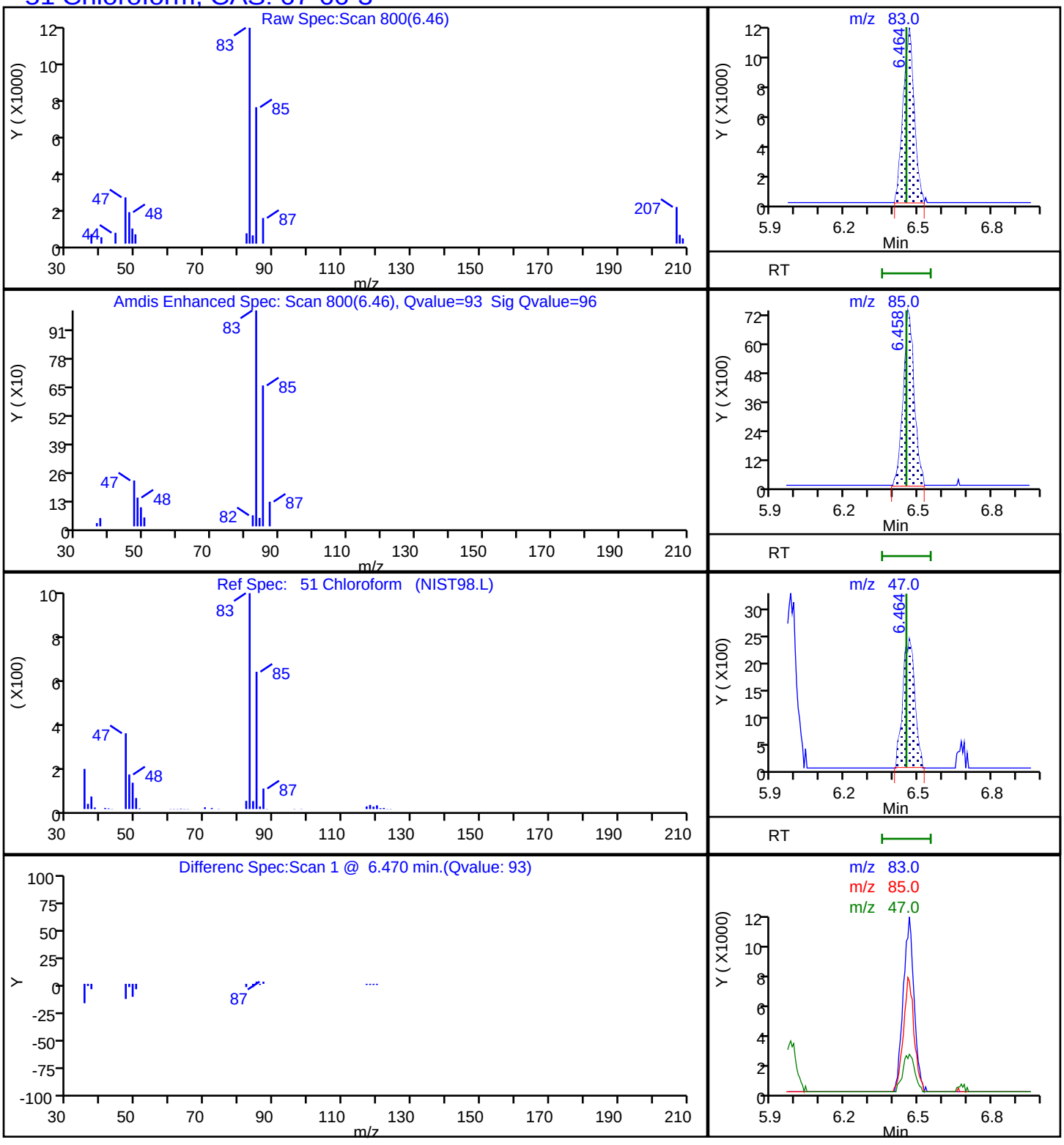


Report Date: 01-Feb-2023 09:18:14 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X13.D				
Injection Date:	31-Jan-2023 14:53:30	Instrument ID:	16334		
Lims ID:	410-113568-A-6	Lab Sample ID:	410-113568-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

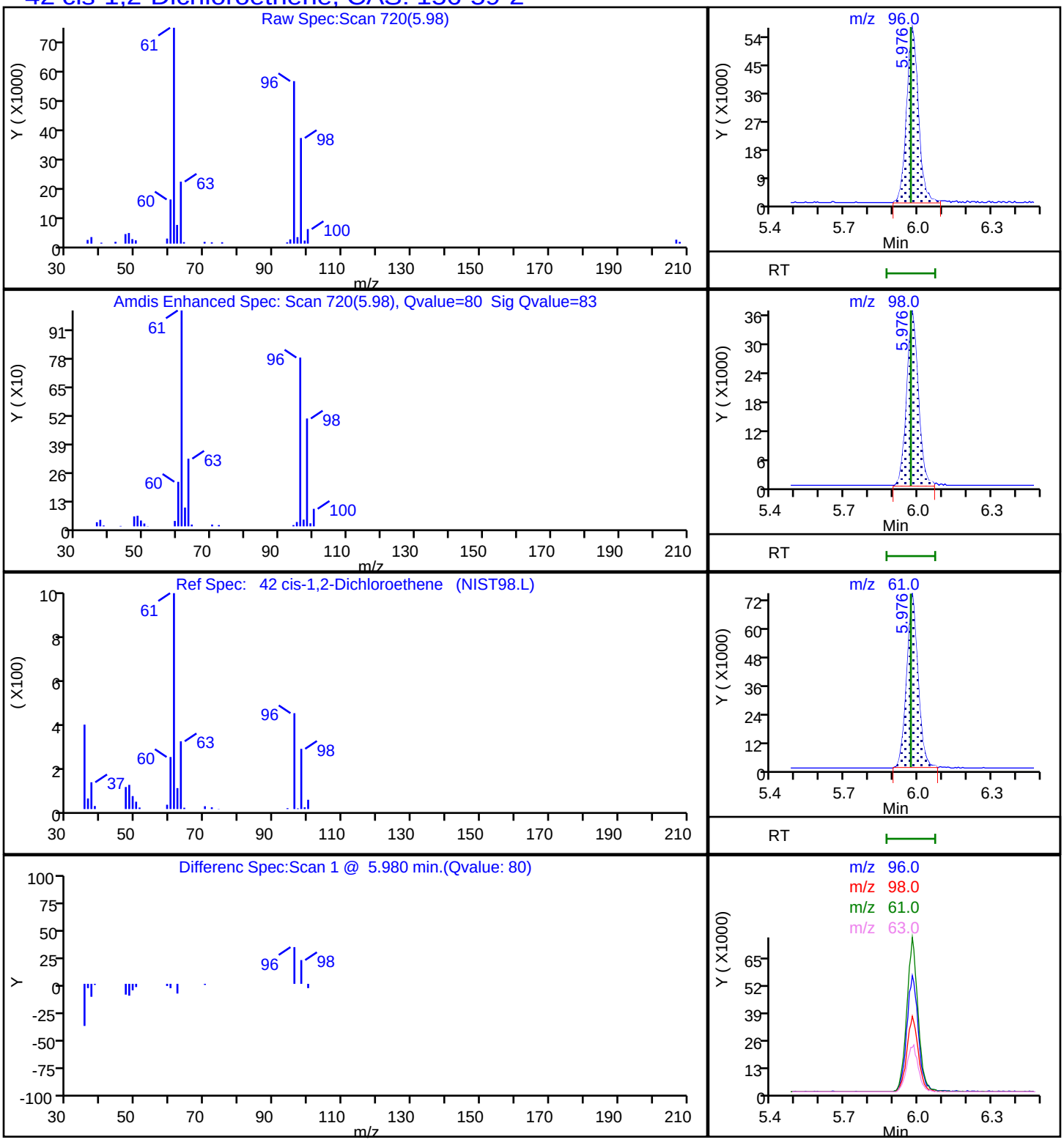
51 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X13.D
Injection Date: 31-Jan-2023 14:53:30 Instrument ID: 16334
Lims ID: 410-113568-A-6 Lab Sample ID: 410-113568-6
Client ID: HD-COD-SW-15-0/1-0
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

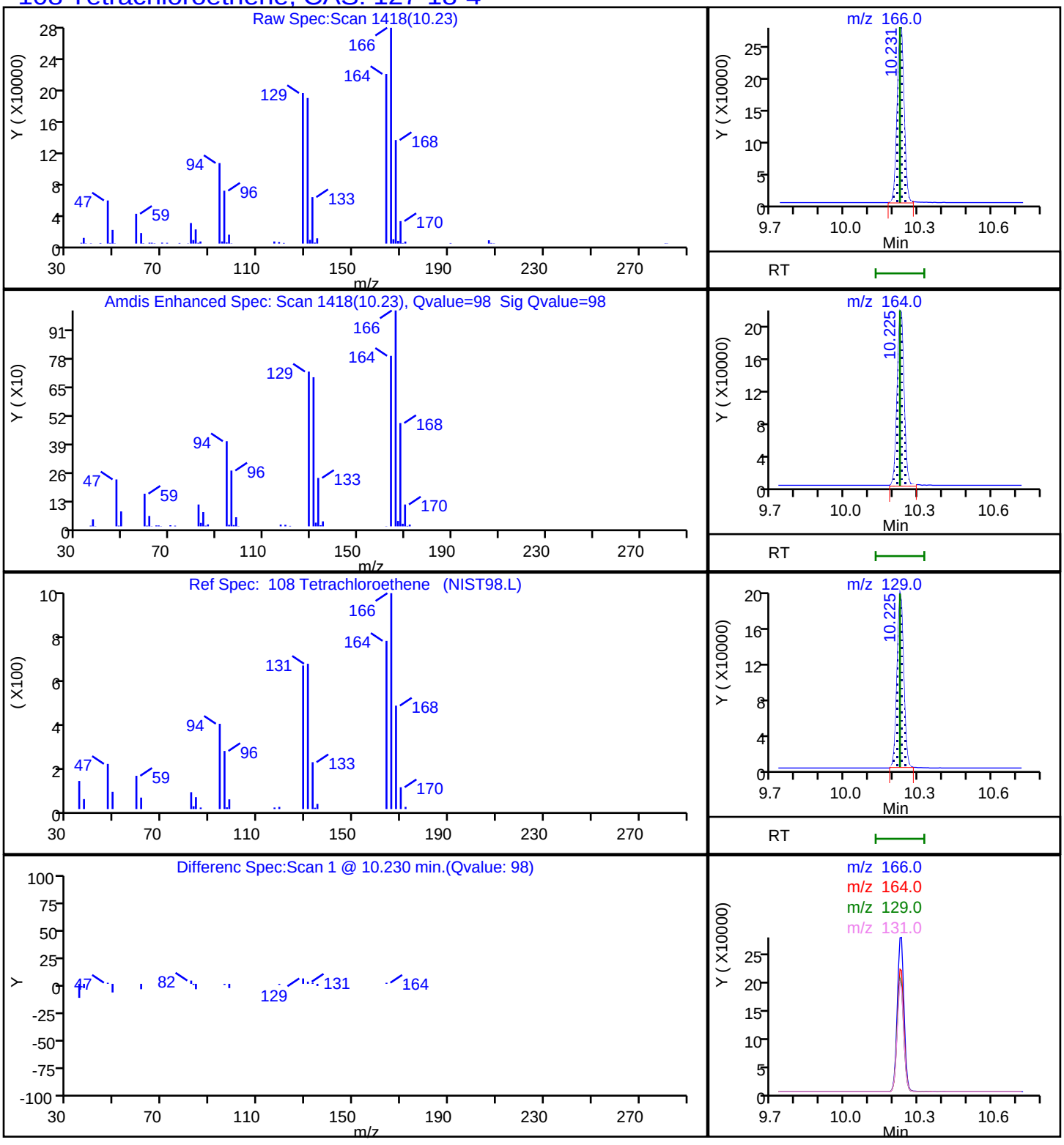
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X13.D				
Injection Date:	31-Jan-2023 14:53:30	Instrument ID:	16334		
Lims ID:	410-113568-A-6	Lab Sample ID:	410-113568-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

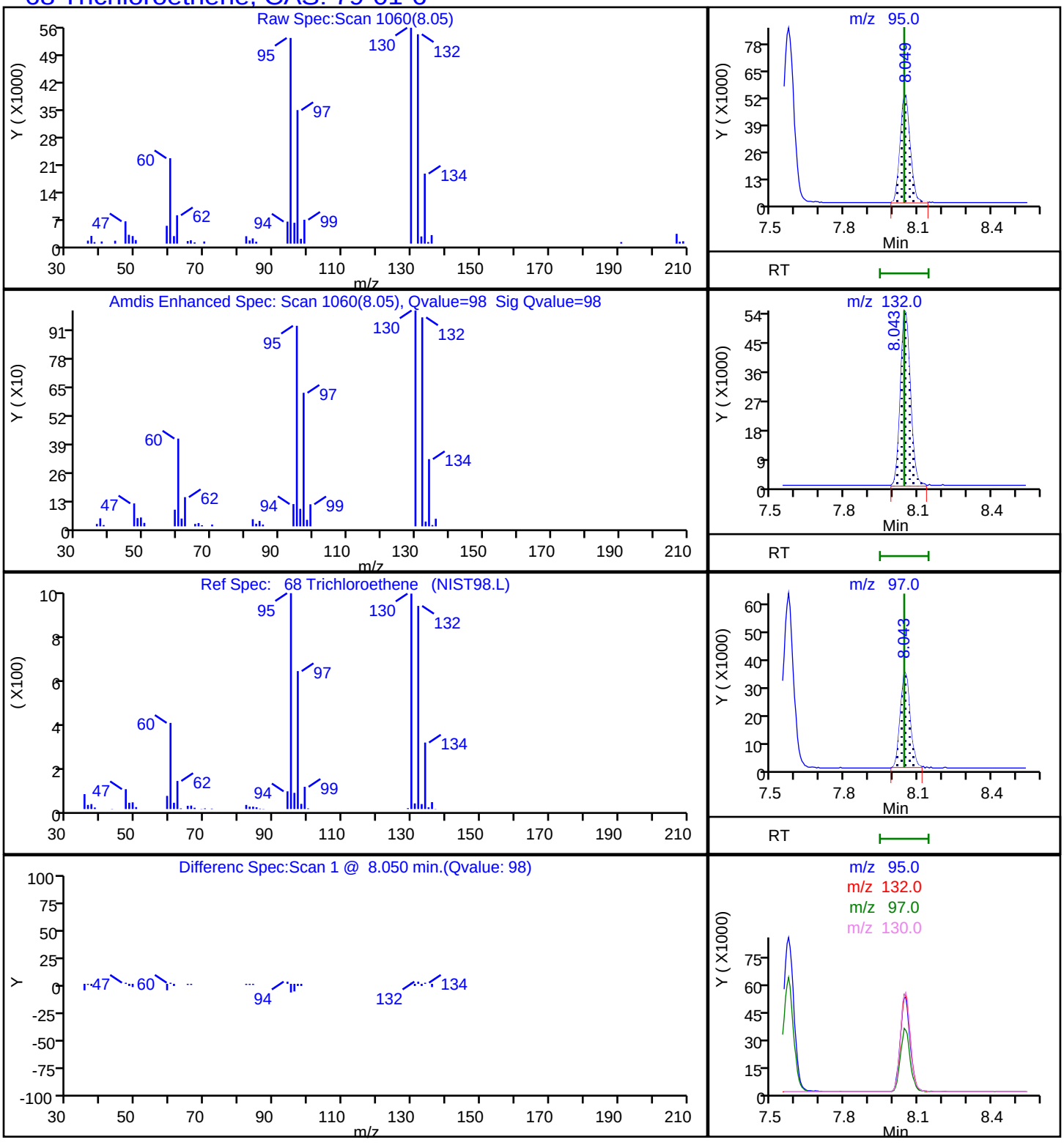
108 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X13.D				
Injection Date:	31-Jan-2023 14:53:30	Instrument ID:	16334		
Lims ID:	410-113568-A-6	Lab Sample ID:	410-113568-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

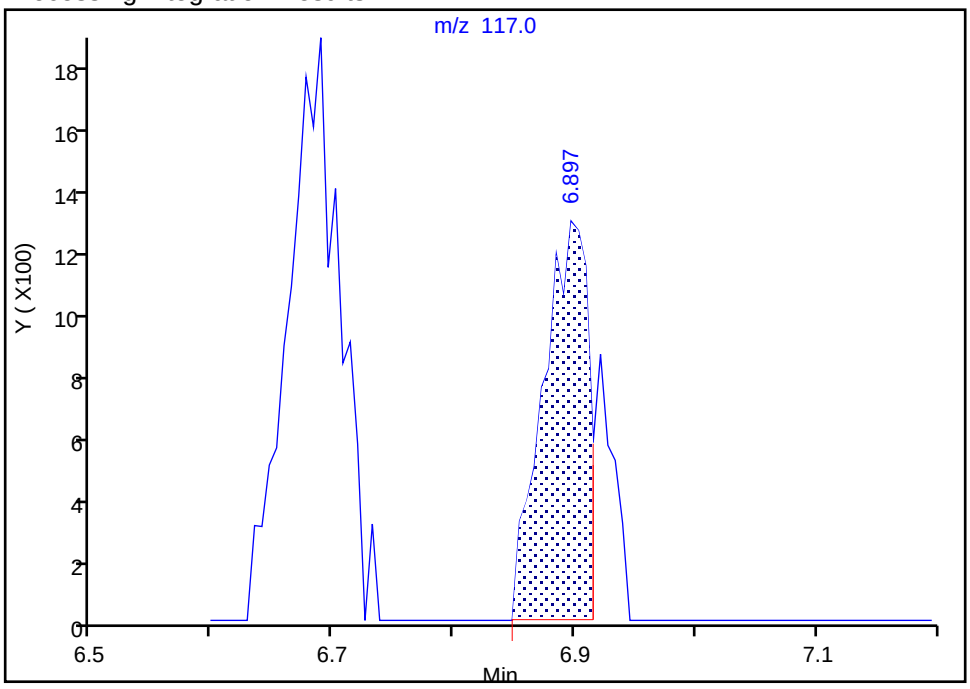
Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X13.D				
Injection Date:	31-Jan-2023 14:53:30	Instrument ID:	16334		
Lims ID:	410-113568-A-6	Lab Sample ID:	410-113568-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

55 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

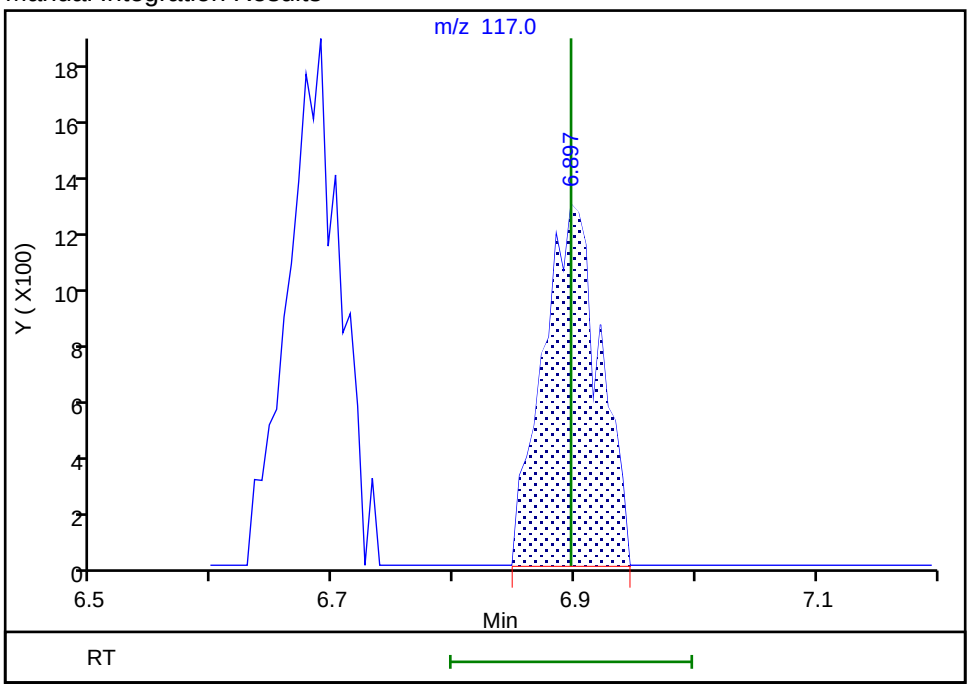
Processing Integration Results

RT: 6.90
Area: 3334
Amount: 0.033479
Amount Units: ug/l



Manual Integration Results

RT: 6.90
Area: 4145
Amount: 0.041623
Amount Units: ug/l



Reviewer: kaewrungrueangp, 01-Feb-2023 09:17:43

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.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0
Lab Sample ID: 410-113568-7

Matrix: Water
Lab File ID: GJ31X16.D

Analysis Method: 8260D
Date Collected: 01/25/2023 09:33

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 16:00

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.: 340101
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	1.3	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	^c cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.15	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.87		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.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0
Lab Sample ID: 410-113568-7

Matrix: Water
Lab File ID: GJ31X16.D

Analysis Method: 8260D
Date Collected: 01/25/2023 09:33

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 16:00

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.: 340101
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	0.17	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X16.D
Lims ID: 410-113568-A-7
Client ID: HD-COD-SW-16-0/1-0
Sample Type: Client
Inject. Date: 31-Jan-2023 16:00:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076112-017
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Feb-2023 09:20:24 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1655

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:20:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.075	2.093	-0.018	24	6009	0.0543	
6 Vinyl chloride	62		2.203				ND	7
9 Bromomethane	94		2.532				ND	
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96		3.428				ND	7
19 Acetone	43	3.465	3.452	0.012	95	15854	1.25	
24 Carbon disulfide	76		3.714				ND	7
29 Methylene Chloride	84		4.068				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.086	4.074	0.012	1	225798	50.0	
33 Methyl tert-butyl ether	73		4.464				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63		5.135				ND	
41 2-Butanone (MEK)	43		5.940				ND	
42 cis-1,2-Dichloroethene	96	5.976	5.970	0.006	76	12250	0.1500	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.458	6.452	0.006	88	5457	0.0415	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.671	0.000	94	689384	10.2	
53 1,1,1-Trichloroethane	97		6.683				ND	
55 Carbon tetrachloride	117		6.897				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.122	7.122	0.000	15	145795	10.5	
60 Benzene	78		7.159				ND	7
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2804515	10.0	
68 Trichloroethene	95	8.043	8.043	0.000	97	13540	0.1651	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	7
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	7
$ 83 Toluene-d8 (Surr)	98	9.591	9.591	0.000	94	2802022	9.89	
84 Toluene	92		9.671				ND	7
85 trans-1,3-Dichloropropene	75		9.933				ND	
107 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	10.225	10.225	0.000	98	81709	0.8709	
110 2-Hexanone	43		10.359				ND	7
112 Chlorodibromomethane	129		10.518				ND	
113 Ethylene Dibromide	107		10.628				ND	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	86	2143585	10.0	
116 Chlorobenzene	112		11.091				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
118 Ethylbenzene	91		11.176				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
120 m-Xylene & p-Xylene	106		11.292				ND	7
121 o-Xylene	106		11.621				ND	7
122 Styrene	104		11.640				ND	7
123 Bromoform	173		11.792				ND	
$ 127 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	91	1021229	9.80	
128 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	1211982	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

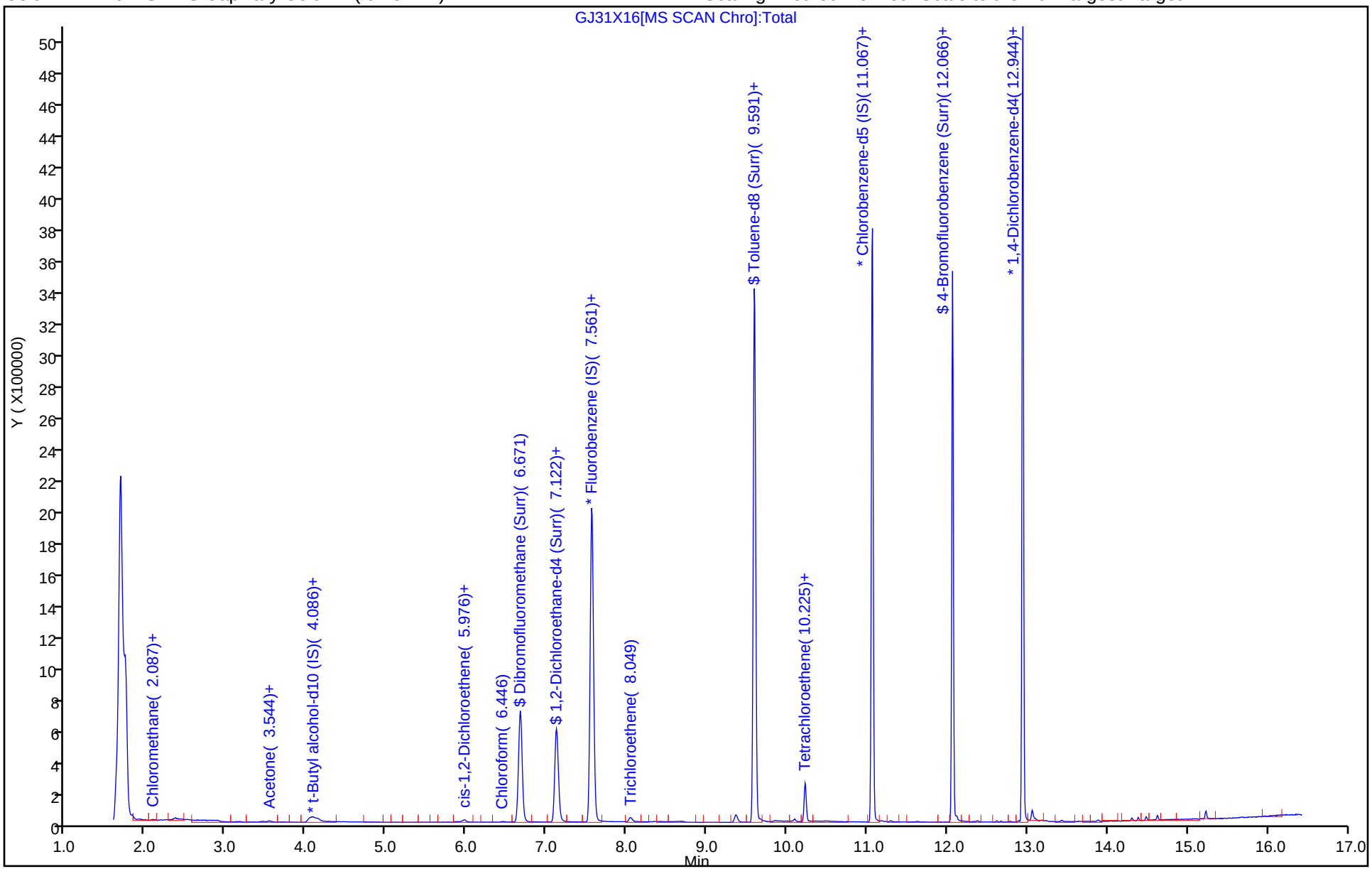
MSV_29_826ISS_00037 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 01-Feb-2023 09:20:59 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X16.D				
Injection Date:	31-Jan-2023 16:00:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-113568-A-7	Lab Sample ID:	410-113568-7	Worklist Smp#:	17
Client ID:	HD-COD-SW-16-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X16.D				
Lims ID:	410-113568-A-7				
Client ID:	HD-COD-SW-16-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Jan-2023 16:00:30	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0076112-017				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Feb-2023 09:20:24	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1655				

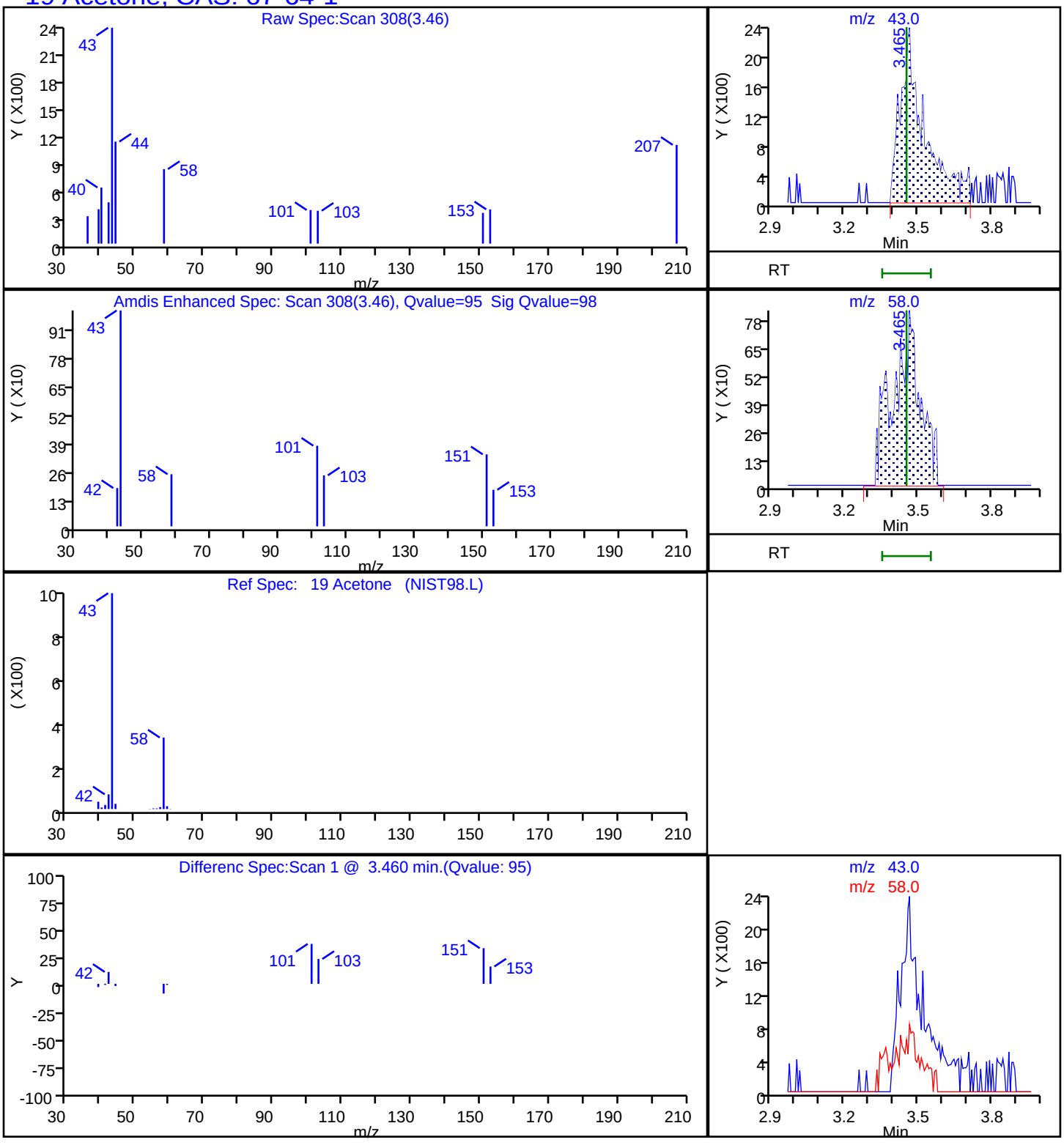
First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:20:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.2	102.40
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	104.60
$ 83 Toluene-d8 (Surr)	10.0	9.89	98.92
$ 127 4-Bromofluorobenzene (Surr)	10.0	9.80	97.95

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X16.D				
Injection Date:	31-Jan-2023 16:00:30	Instrument ID:	16334		
Lims ID:	410-113568-A-7	Lab Sample ID:	410-113568-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

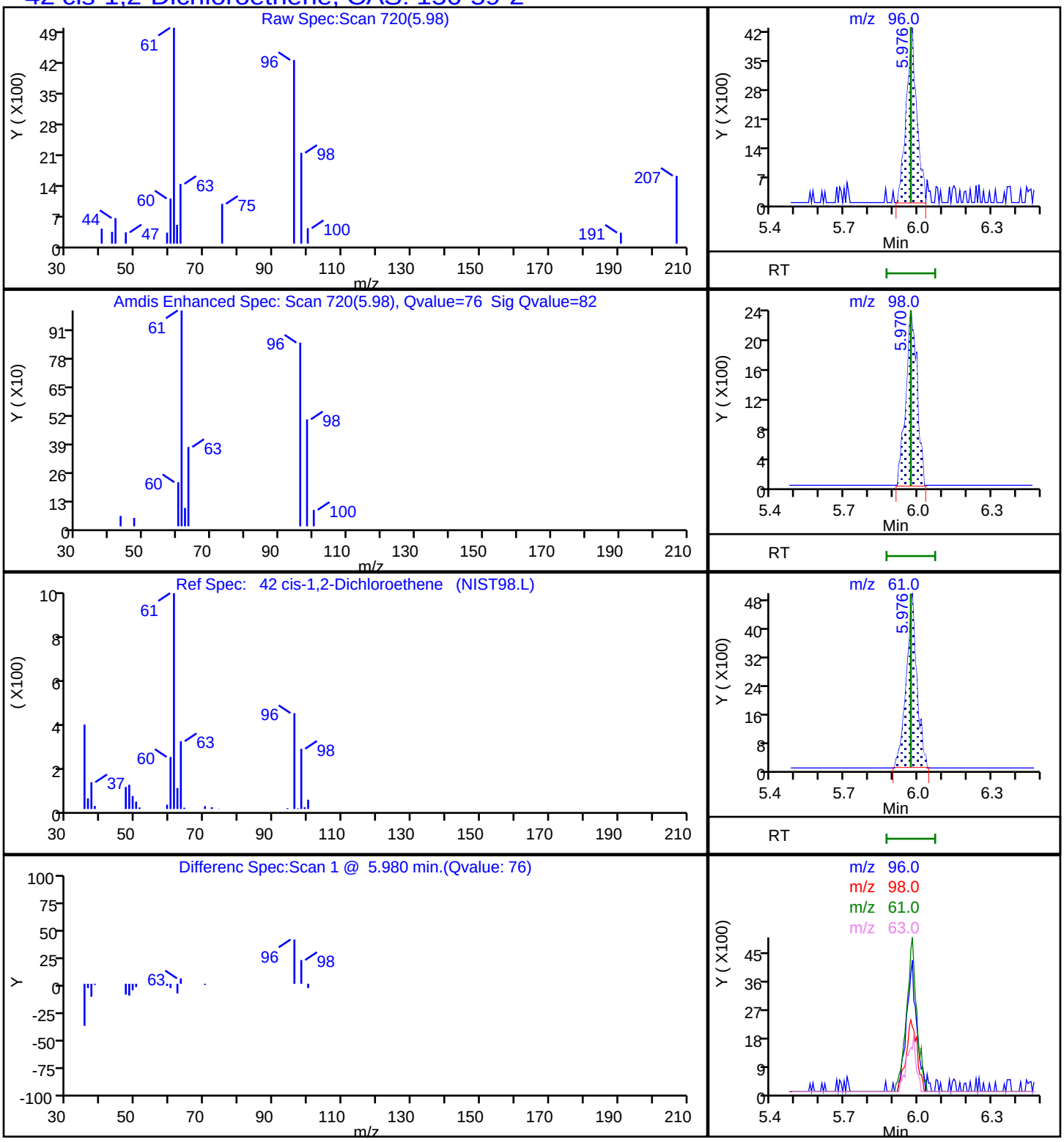
19 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X16.D				
Injection Date:	31-Jan-2023 16:00:30	Instrument ID:	16334		
Lims ID:	410-113568-A-7	Lab Sample ID:	410-113568-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

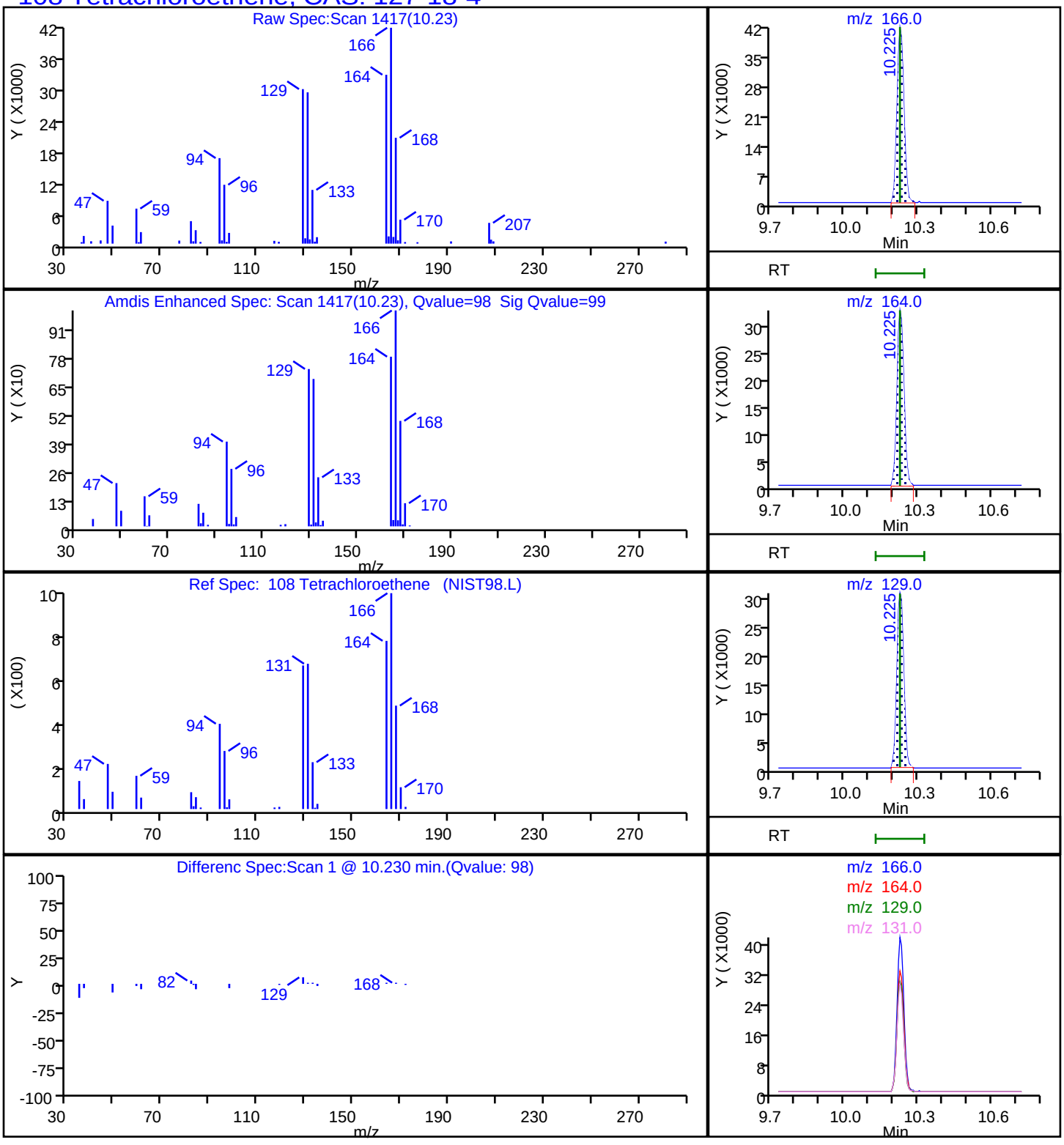
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X16.D				
Injection Date:	31-Jan-2023 16:00:30	Instrument ID:	16334		
Lims ID:	410-113568-A-7	Lab Sample ID:	410-113568-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

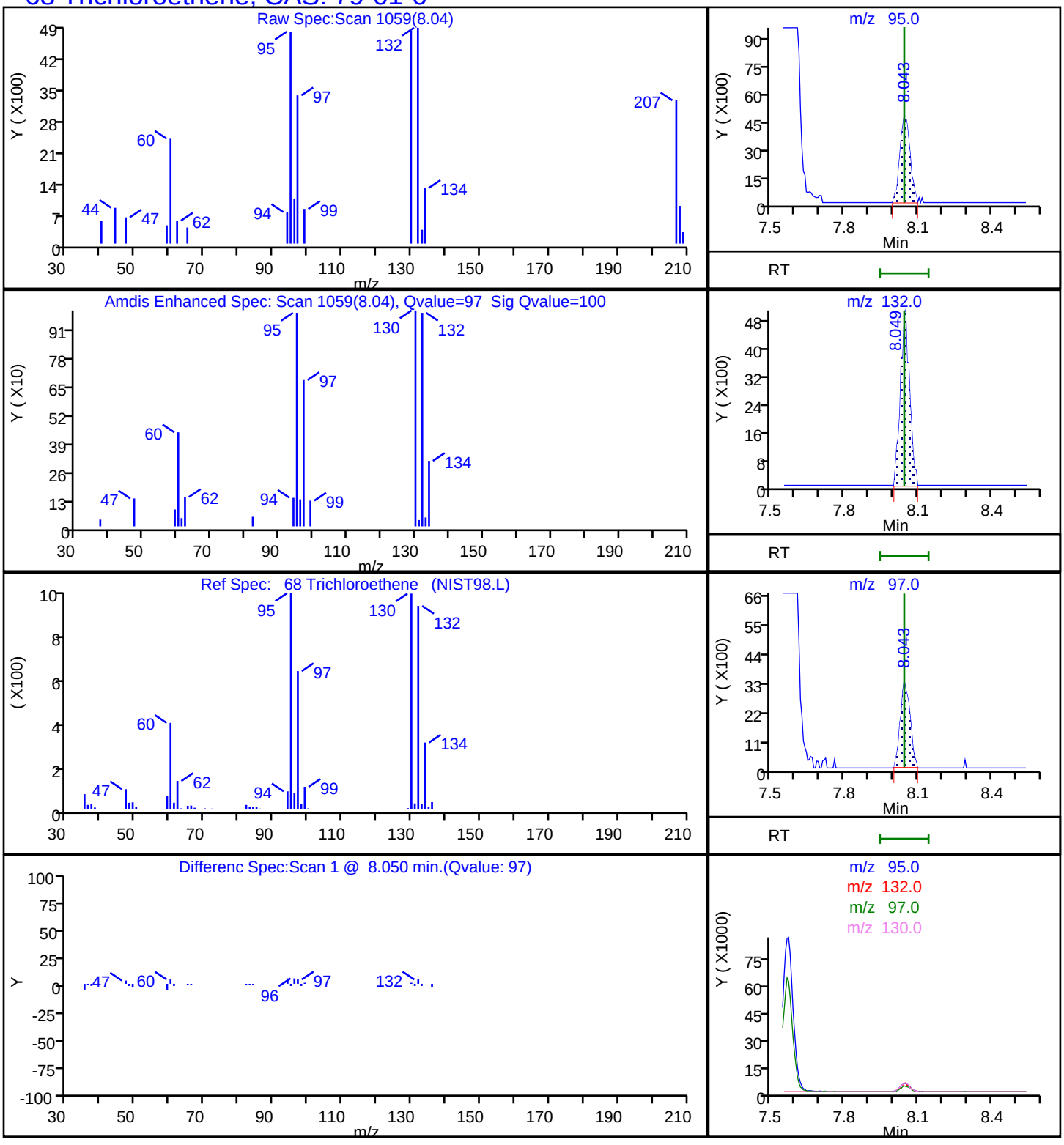
108 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X16.D				
Injection Date:	31-Jan-2023 16:00:30	Instrument ID:	16334		
Lims ID:	410-113568-A-7	Lab Sample ID:	410-113568-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	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.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0
Lab Sample ID: 410-113568-8

Matrix: Water
Lab File ID: GJ31X17.D

Analysis Method: 8260D
Date Collected: 01/25/2023 09:45

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 16:21

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 340101
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	5.4		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	1.0		0.50	0.10
75-35-4	1,1-Dichloroethene	0.49	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	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	^c cn	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	0.25	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	3.1		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
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.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0
Lab Sample ID: 410-113568-8

Matrix: Water
Lab File ID: GJ31X17.D

Analysis Method: 8260D
Date Collected: 01/25/2023 09:45

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 16:21

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 340101
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	3.6		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X17.D
Lims ID: 410-113568-A-8
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 31-Jan-2023 16:21:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076112-018
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Feb-2023 09:21:48 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1655

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:21:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.093				ND	7
6 Vinyl chloride	62		2.203				ND	7
9 Bromomethane	94		2.532				ND	
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96	3.416	3.428	-0.012	98	32290	0.4860	
19 Acetone	43	3.465	3.452	0.013	64	12204	0.9282	
24 Carbon disulfide	76		3.714				ND	7
29 Methylene Chloride	84		4.068				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.080	4.074	0.006	1	234870	50.0	
33 Methyl tert-butyl ether	73	4.458	4.464	-0.006	82	6355	0.0353	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63	5.129	5.135	-0.006	96	135074	1.01	
41 2-Butanone (MEK)	43		5.940				ND	
42 cis-1,2-Dichloroethene	96	5.970	5.970	0.000	80	259717	3.12	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.452	6.452	0.000	93	33621	0.2514	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.671	0.000	94	708582	10.3	
53 1,1,1-Trichloroethane	97	6.677	6.683	-0.006	98	616550	5.35	
55 Carbon tetrachloride	117		6.897				ND	7
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.122	0.006	33	149647	10.5	
60 Benzene	78		7.159				ND	7
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2854246	10.0	
68 Trichloroethene	95	8.043	8.043	0.000	98	301521	3.61	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	7
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	7
$ 83 Toluene-d8 (Surr)	98	9.591	9.591	0.000	94	2828460	9.63	
84 Toluene	92		9.671				ND	7
85 trans-1,3-Dichloropropene	75		9.933				ND	
107 1,1,2-Trichloroethane	97	10.146	10.140	0.006	80	1531	0.0253	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	10.225	10.225	0.000	97	7291677	74.9	E
110 2-Hexanone	43		10.359				ND	
112 Chlorodibromomethane	129		10.518				ND	
113 Ethylene Dibromide	107		10.628				ND	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	86	2223388	10.0	
116 Chlorobenzene	112	11.091	11.091	0.000	79	2306	0.009434	7a
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
118 Ethylbenzene	91		11.176				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
120 m-Xylene & p-Xylene	106		11.292				ND	7
121 o-Xylene	106		11.621				ND	
122 Styrene	104		11.640				ND	
123 Bromoform	173		11.792				ND	
$ 127 4-Bromofluorobenzene (Surr)	95	12.067	12.066	0.001	91	1051145	9.72	
128 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	1243030	10.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSV_29_826ISS_00037 Amount Added: 1.00 Units: uL Run Reagent

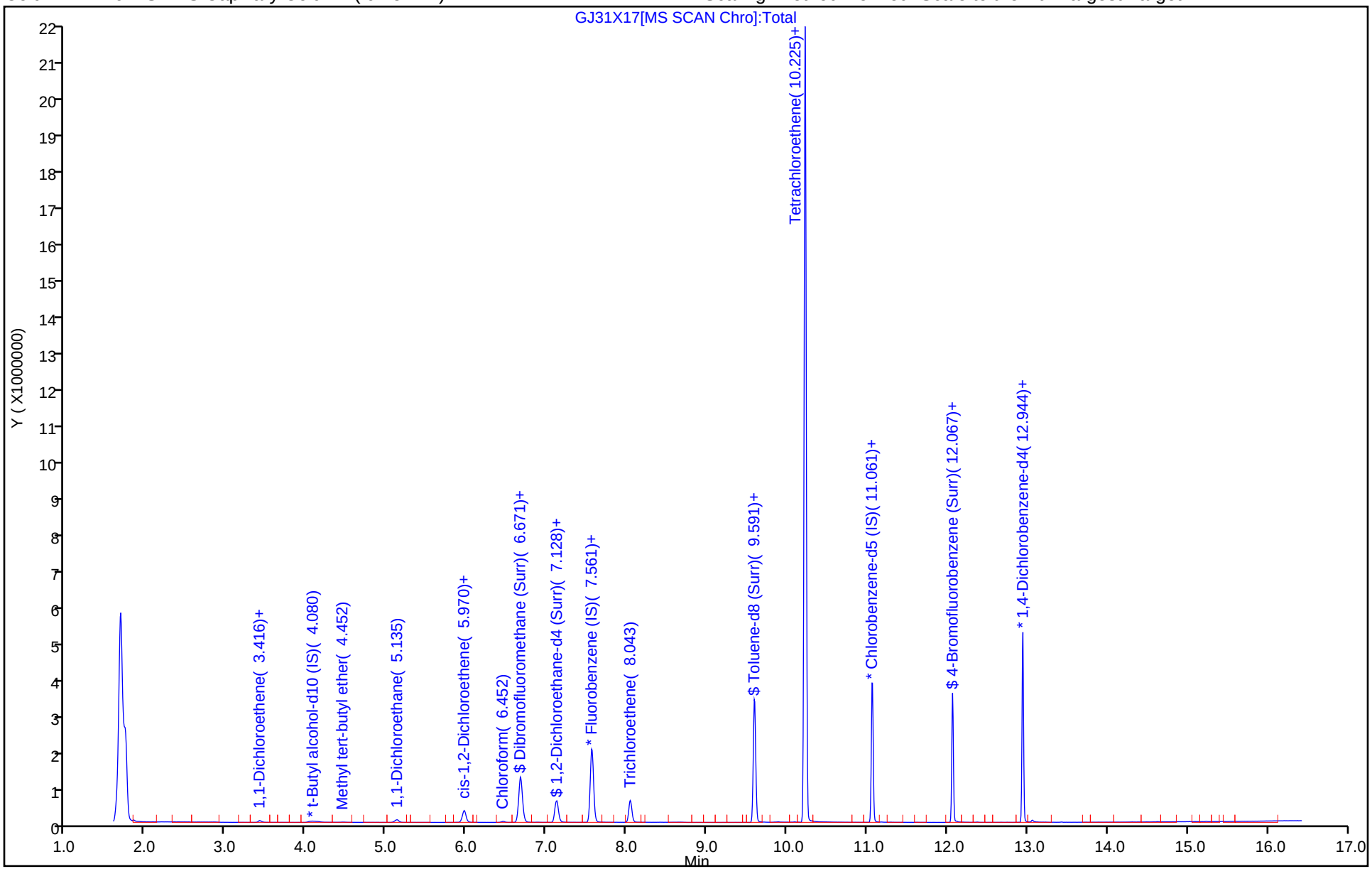
Report Date: 01-Feb-2023 09:21:48 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X17.D

Injection Date:	31-Jan-2023 16:21:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-113568-A-8	Lab Sample ID:	410-113568-8	Worklist Smp#:	18
Client ID:	HD-COD-SW-17-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X17.D				
Lims ID:	410-113568-A-8				
Client ID:	HD-COD-SW-17-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Jan-2023 16:21:30	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0076112-018				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Feb-2023 09:21:48	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1655				

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:21:48

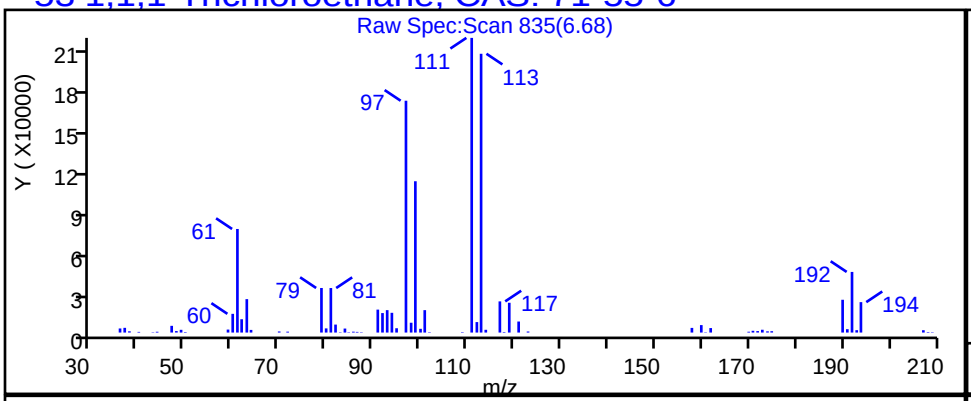
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	103.42
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.49
$ 83 Toluene-d8 (Surr)	10.0	9.63	96.27
$ 127 4-Bromofluorobenzene (Surr)	10.0	9.72	97.20

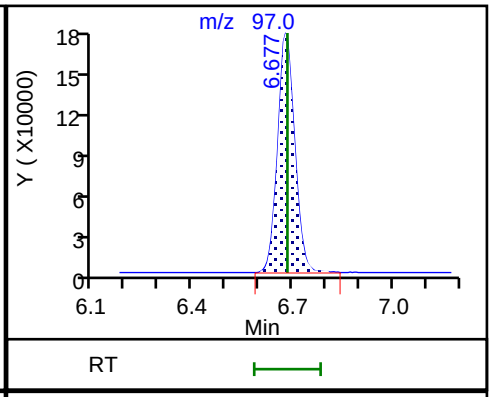
Report Date: 01-Feb-2023 09:21:48 Chrom Revision: 2.3 28-Jan-2023 14:03:14

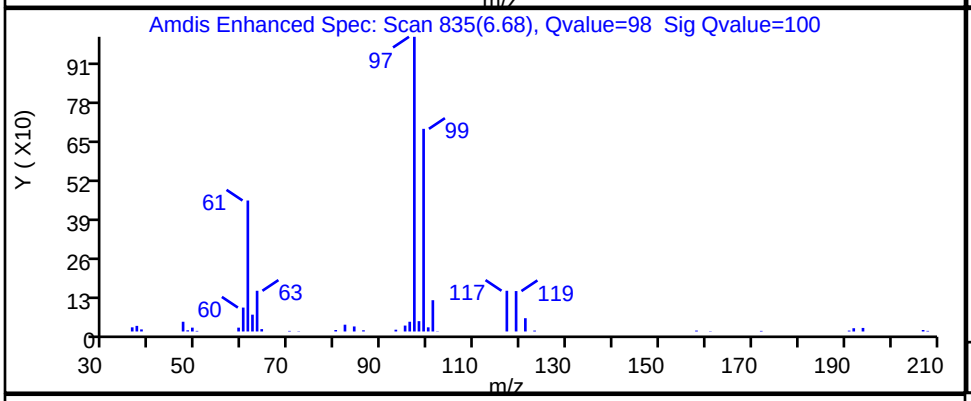
Eurofins Lancaster Laboratories Environment Testing, LLC

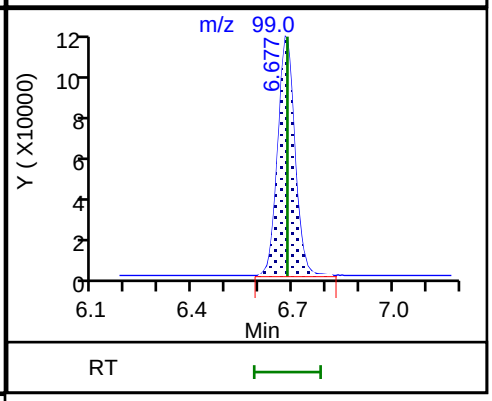
Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X17.D				
Injection Date:	31-Jan-2023 16:21:30	Instrument ID:	16334		
Lims ID:	410-113568-A-8	Lab Sample ID:	410-113568-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

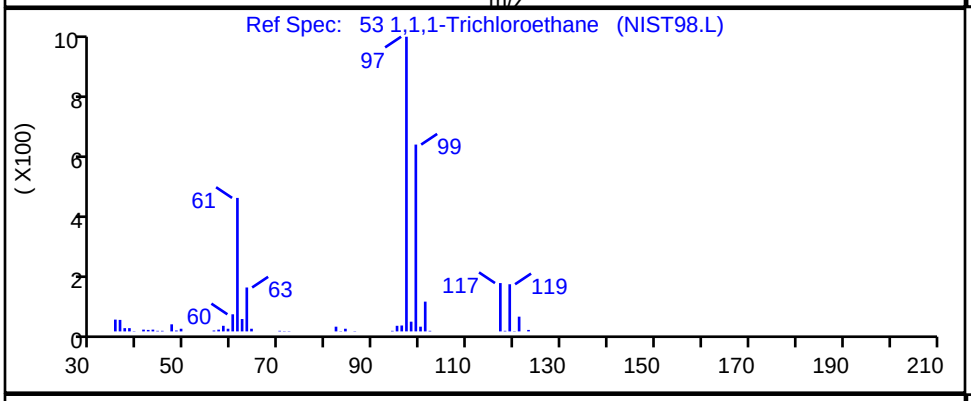
53 1,1,1-Trichloroethane, CAS: 71-55-6

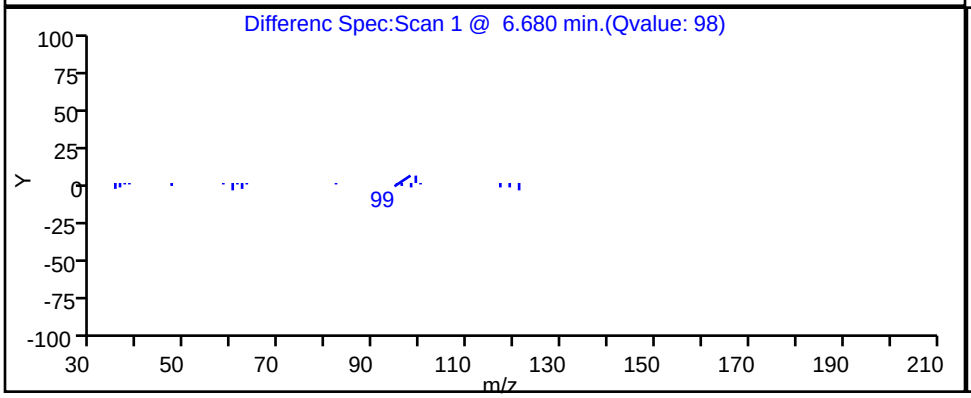


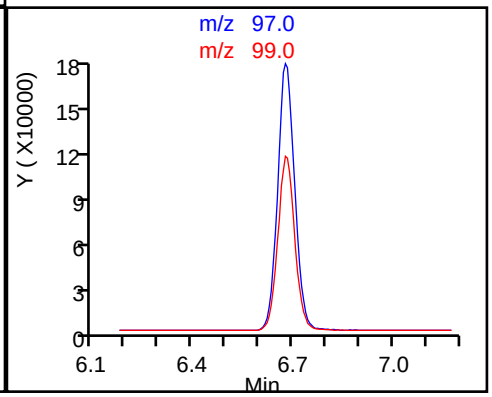








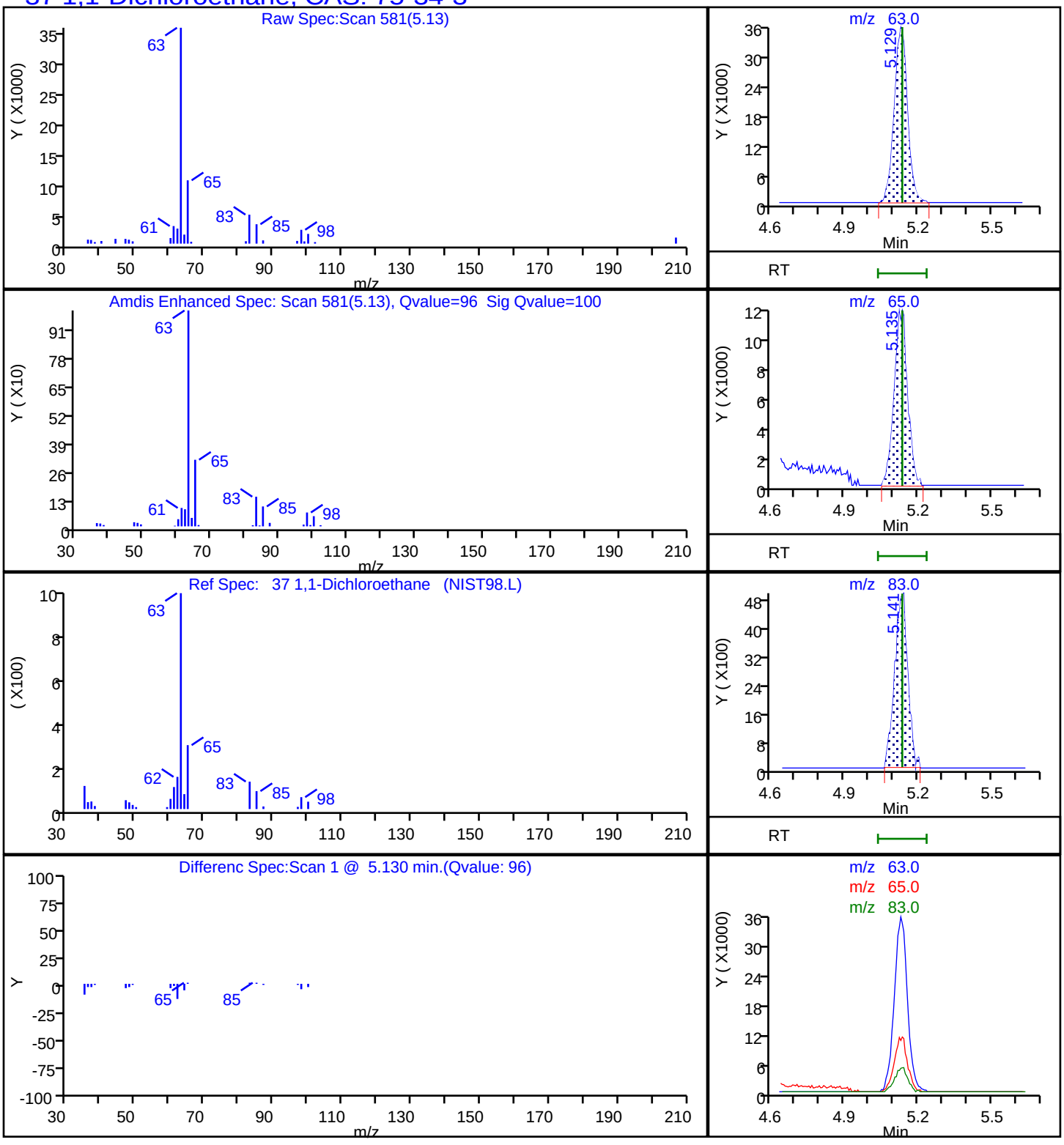




Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X17.D				
Injection Date:	31-Jan-2023 16:21:30	Instrument ID:	16334		
Lims ID:	410-113568-A-8	Lab Sample ID:	410-113568-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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

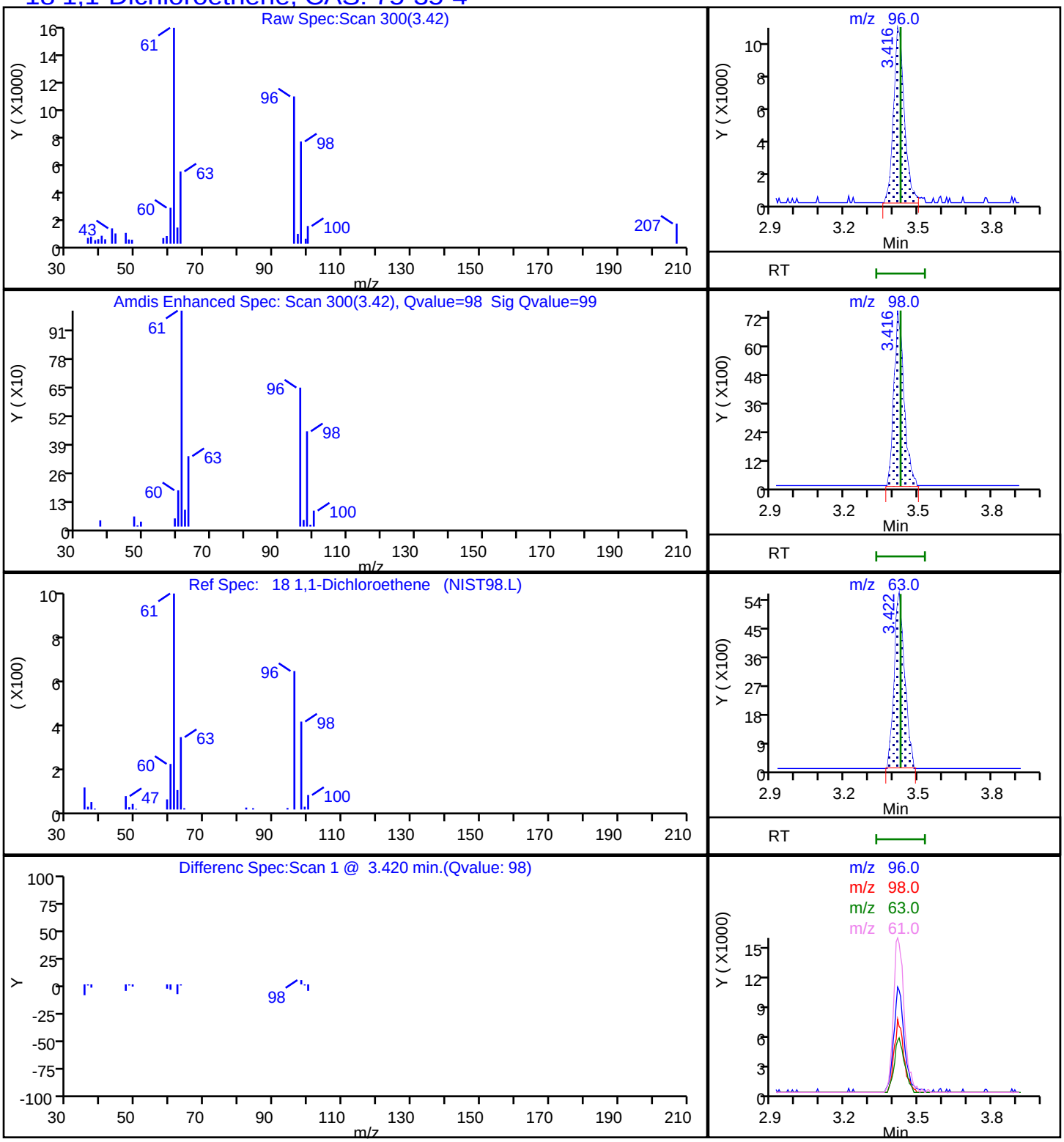


Report Date: 01-Feb-2023 09:21:48 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X17.D				
Injection Date:	31-Jan-2023 16:21:30	Instrument ID:	16334		
Lims ID:	410-113568-A-8	Lab Sample ID:	410-113568-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

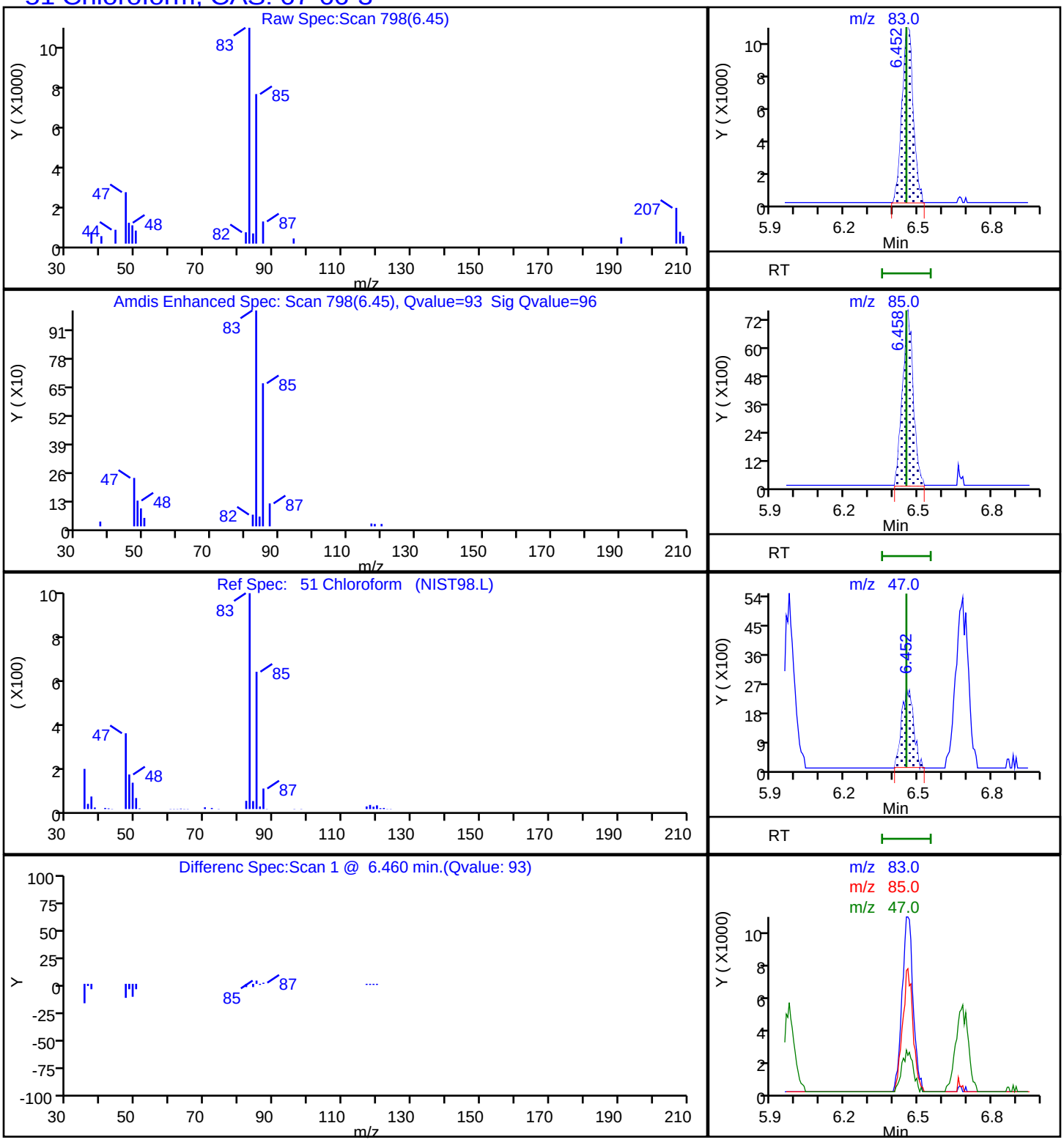
18 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X17.D				
Injection Date:	31-Jan-2023 16:21:30	Instrument ID:	16334		
Lims ID:	410-113568-A-8	Lab Sample ID:	410-113568-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

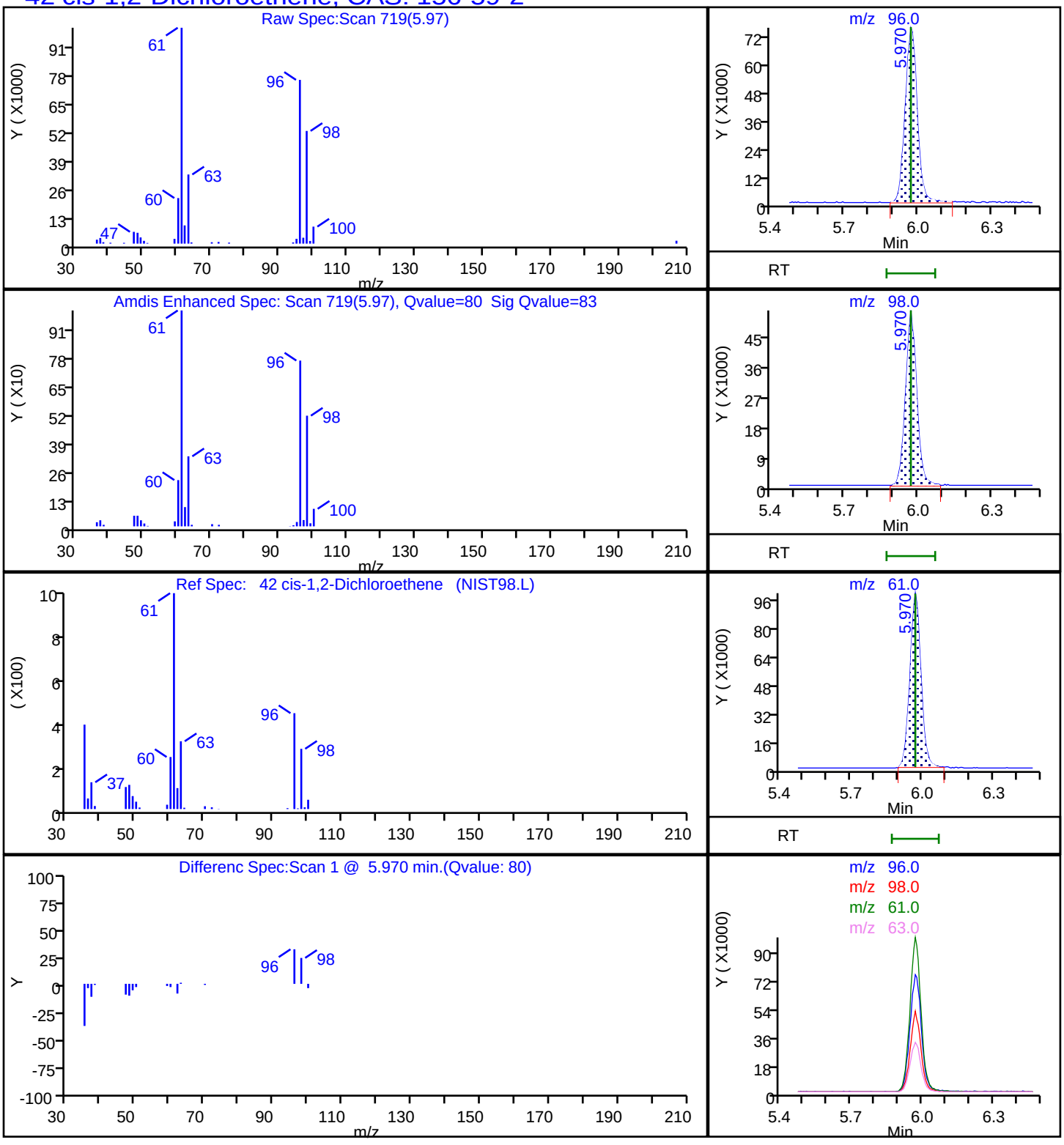
51 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X17.D				
Injection Date:	31-Jan-2023 16:21:30	Instrument ID:	16334		
Lims ID:	410-113568-A-8	Lab Sample ID:	410-113568-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

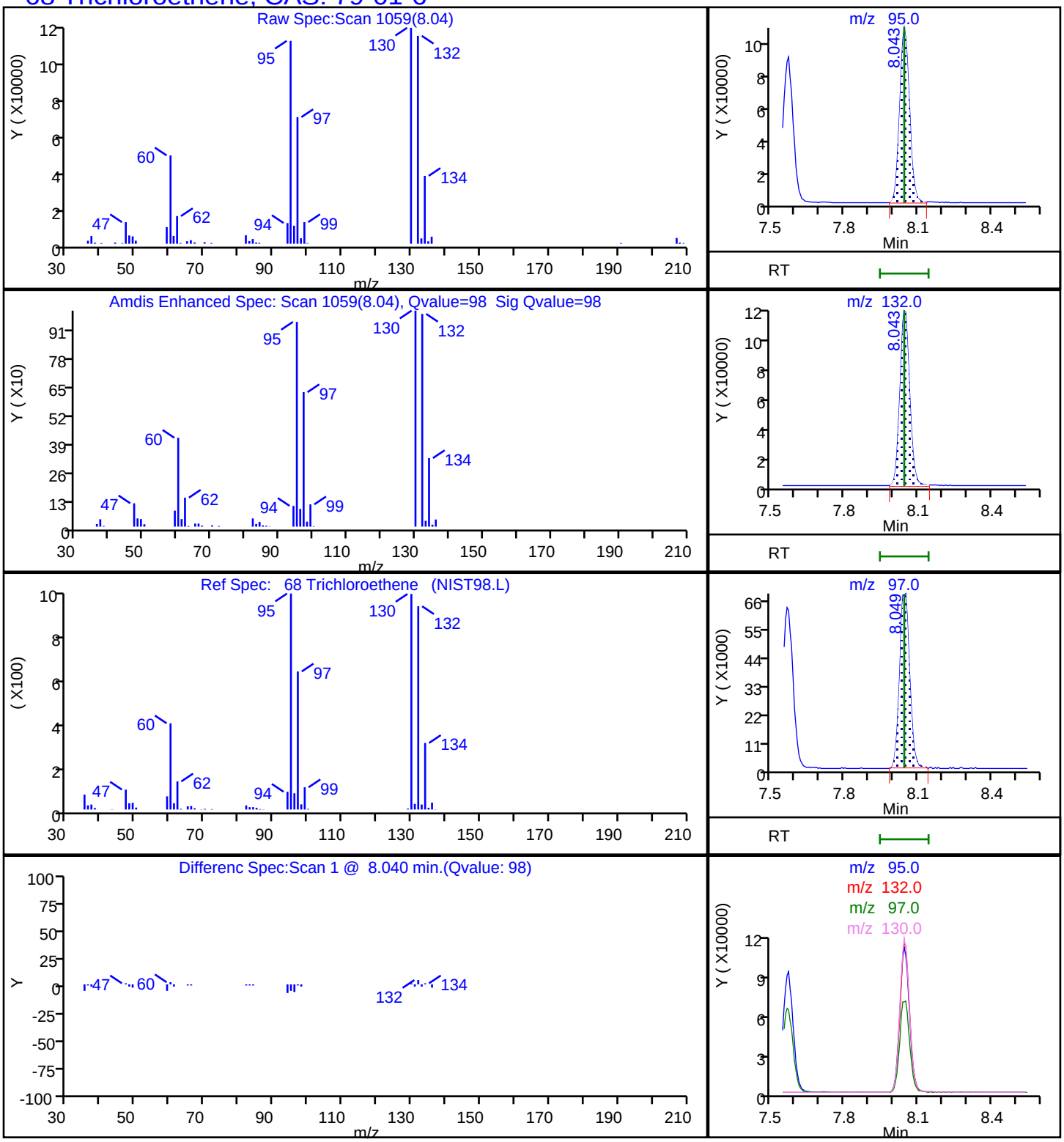
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X17.D				
Injection Date:	31-Jan-2023 16:21:30	Instrument ID:	16334		
Lims ID:	410-113568-A-8	Lab Sample ID:	410-113568-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

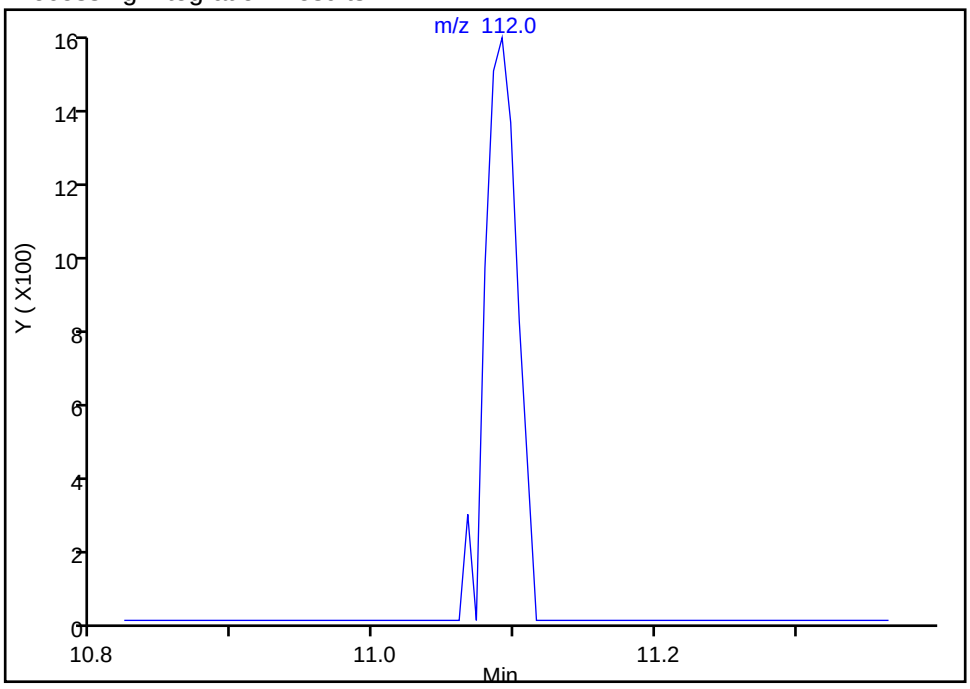
Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X17.D				
Injection Date:	31-Jan-2023 16:21:30	Instrument ID:	16334		
Lims ID:	410-113568-A-8	Lab Sample ID:	410-113568-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

116 Chlorobenzene, CAS: 108-90-7

Signal: 1

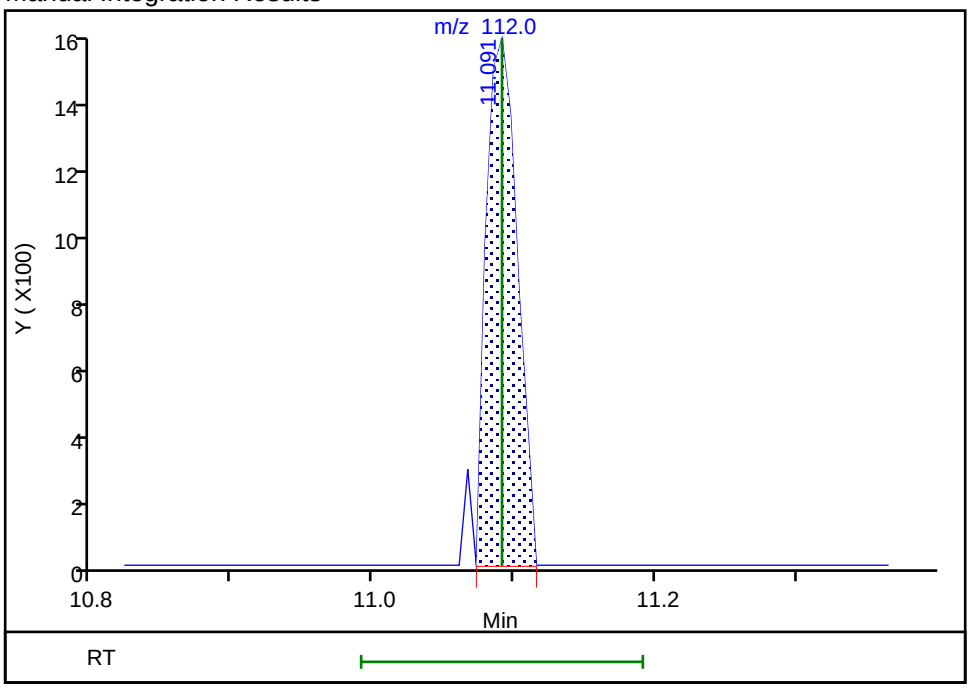
Not Detected
Expected RT: 11.09

Processing Integration Results



Manual Integration Results

RT: 11.09
Area: 2306
Amount: 0.009434
Amount Units: ug/l



Reviewer: kaewrungrueangp, 01-Feb-2023 09:21:40
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0 DL
Lab Sample ID: 410-113568-8 DL

Matrix: Water
Lab File ID: GF02X28.D

Analysis Method: 8260D
Date Collected: 01/25/2023 09:45

Sample wt/vol: 25(mL)
Date Analyzed: 02/02/2023 20:27

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.: 340956
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	60		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)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02X28.D
Lims ID: 410-113568-B-8
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 02-Feb-2023 20:27:30 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0076262-029
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230202-76262.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Feb-2023 10:21:55 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 03-Feb-2023 10:21:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.093				ND	7
6 Vinyl chloride	62		2.202				ND	
9 Bromomethane	94		2.532				ND	
10 Chloroethane	64		2.605				ND	7
18 1,1-Dichloroethene	96	3.428	3.428	0.000	28	4150	0.0603	
19 Acetone	43		3.458				ND	7
24 Carbon disulfide	76		3.714				ND	7
29 Methylene Chloride	84		4.068				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.086	4.074	0.012	22	177560	50.0	
33 Methyl tert-butyl ether	73		4.464				ND	
34 trans-1,2-Dichloroethene	96		4.470				ND	
37 1,1-Dichloroethane	63	5.129	5.135	-0.006	94	12151	0.0880	a
41 2-Butanone (MEK)	43		5.933				ND	
42 cis-1,2-Dichloroethene	96	5.976	5.970	0.006	77	24462	0.2839	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.452	6.458	-0.006	1	3219	0.0232	a
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.677	0.000	94	721869	10.2	
53 1,1,1-Trichloroethane	97	6.689	6.677	0.012	68	53013	0.4439	
55 Carbon tetrachloride	117		6.891				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.128	0.000	65	148207	10.1	
60 Benzene	78	7.165	7.159	0.006	42	5201	0.0162	Ma
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.567	0.000	99	2958749	10.0	
68 Trichloroethene	95	8.049	8.043	0.006	99	28132	0.3251	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	
$ 83 Toluene-d8 (Surr)	98	9.591	9.591	0.000	94	2980147	9.80	
84 Toluene	92		9.671				ND	7
85 trans-1,3-Dichloropropene	75		9.933				ND	7
107 1,1,2-Trichloroethane	97		10.140				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	10.225	10.225	0.000	98	599904	5.96	
110 2-Hexanone	43		10.359				ND	
112 Chlorodibromomethane	129		10.518				ND	
113 Ethylene Dibromide	107		10.628				ND	
* 114 Chlorobenzene-d5 (IS)	117	11.060	11.061	0.000	86	2300808	10.0	
116 Chlorobenzene	112		11.091				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
118 Ethylbenzene	91		11.176				ND	
S 119 Xylenes, Total	106		11.245				ND	7
120 m-Xylene & p-Xylene	106		11.292				ND	
121 o-Xylene	106		11.621				ND	
122 Styrene	104		11.640				ND	
123 Bromoform	173		11.792				ND	
$ 127 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	91	1115748	9.97	
128 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	1298843	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:

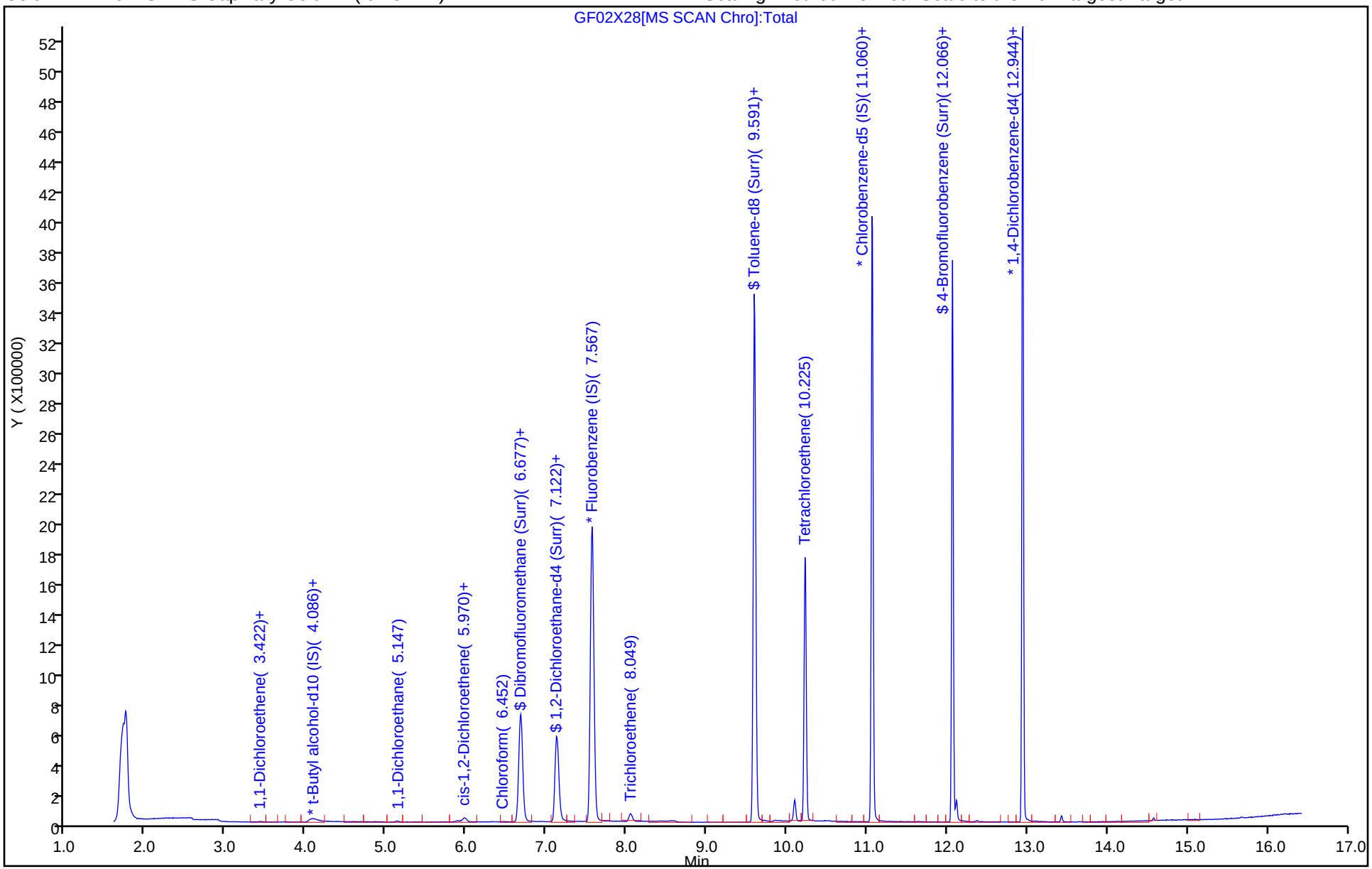
MSV_29_826ISS_00037 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 03-Feb-2023 10:21:55 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02X28.D				
Injection Date:	02-Feb-2023 20:27:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-113568-B-8	Lab Sample ID:	410-113568-8	Worklist Smp#:	29
Client ID:	HD-COD-SW-17-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	28
Method:	MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02X28.D				
Lims ID:	410-113568-B-8				
Client ID:	HD-COD-SW-17-0/1-0				
Sample Type:	Client				
Inject. Date:	02-Feb-2023 20:27:30	ALS Bottle#:	28	Worklist Smp#:	29
Purge Vol:	25.000 mL	Dil. Factor:	10.0000		
Sample Info:	410-0076262-029				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230202-76262.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	03-Feb-2023 10:21:55	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1679				

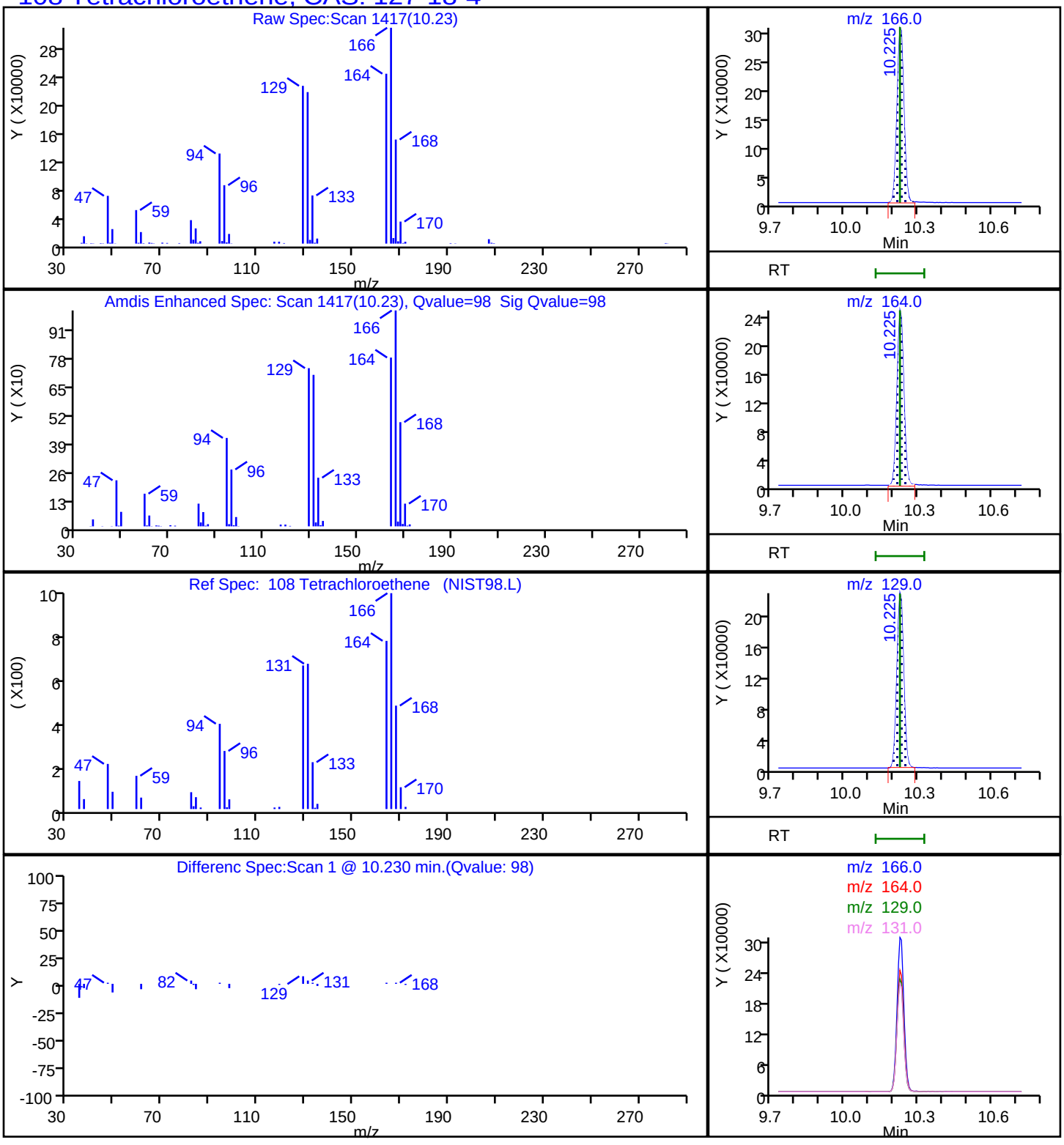
First Level Reviewer: innoonk Date: 03-Feb-2023 10:21:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.2	101.64
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	100.79
$ 83 Toluene-d8 (Surr)	10.0	9.80	98.02
$ 127 4-Bromofluorobenzene (Surr)	10.0	9.97	99.71

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02X28.D				
Injection Date:	02-Feb-2023 20:27:30	Instrument ID:	16334		
Lims ID:	410-113568-B-8	Lab Sample ID:	410-113568-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	28	Worklist Smp#:	29
Purge Vol:	25.000 mL	Dil. Factor:	10.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

108 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-26-0/1-0
Lab Sample ID: 410-113568-9

Matrix: Water
Lab File ID: GJ31X18.D

Analysis Method: 8260D
Date Collected: 01/25/2023 10:50

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 16:43

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 340101
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	^c cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.18	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.12	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	1.1		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.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-26-0/1-0
Lab Sample ID: 410-113568-9

Matrix: Water
Lab File ID: GJ31X18.D

Analysis Method: 8260D
Date Collected: 01/25/2023 10:50

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 16:43

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 340101
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	0.15	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X18.D
Lims ID: 410-113568-A-9
Client ID: HD-COD-SW-26-0/1-0
Sample Type: Client
Inject. Date: 31-Jan-2023 16:43:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076112-019
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Feb-2023 09:21:48 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1655

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:22:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.081	2.093	-0.012	92	3658	0.0333	
6 Vinyl chloride	62		2.203				ND	7
9 Bromomethane	94		2.532				ND	
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96	3.434	3.428	0.006	94	3278	0.0506	
19 Acetone	43	3.464	3.452	0.012	68	9752	0.7722	
24 Carbon disulfide	76		3.714				ND	7
29 Methylene Chloride	84		4.068				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.086	4.074	0.012	1	225583	50.0	
33 Methyl tert-butyl ether	73		4.464				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63		5.135				ND	
41 2-Butanone (MEK)	43		5.940				ND	
42 cis-1,2-Dichloroethene	96	5.976	5.970	0.006	78	9358	0.1155	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.464	6.452	0.012	93	23883	0.1832	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	94	688531	10.3	
53 1,1,1-Trichloroethane	97		6.683				ND	
55 Carbon tetrachloride	117		6.897				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.122	0.006	26	143985	10.4	
60 Benzene	78		7.159				ND	7
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.561	0.006	99	2783167	10.0	
68 Trichloroethene	95	8.049	8.043	0.006	95	12505	0.1536	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	7
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	7
$ 83 Toluene-d8 (Surr)	98	9.597	9.591	0.006	94	2792485	9.85	
84 Toluene	92		9.671				ND	7
85 trans-1,3-Dichloropropene	75		9.933				ND	
107 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	10.231	10.225	0.006	97	100799	1.07	
110 2-Hexanone	43		10.359				ND	
112 Chlorodibromomethane	129		10.518				ND	
113 Ethylene Dibromide	107		10.628				ND	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	86	2145173	10.0	
116 Chlorobenzene	112		11.091				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
118 Ethylbenzene	91		11.176				ND	
S 119 Xylenes, Total	106		11.245				ND	7
120 m-Xylene & p-Xylene	106		11.292				ND	7
121 o-Xylene	106		11.621				ND	
122 Styrene	104		11.640				ND	
123 Bromoform	173		11.792				ND	
$ 127 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	90	1024551	9.82	
128 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	1221127	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

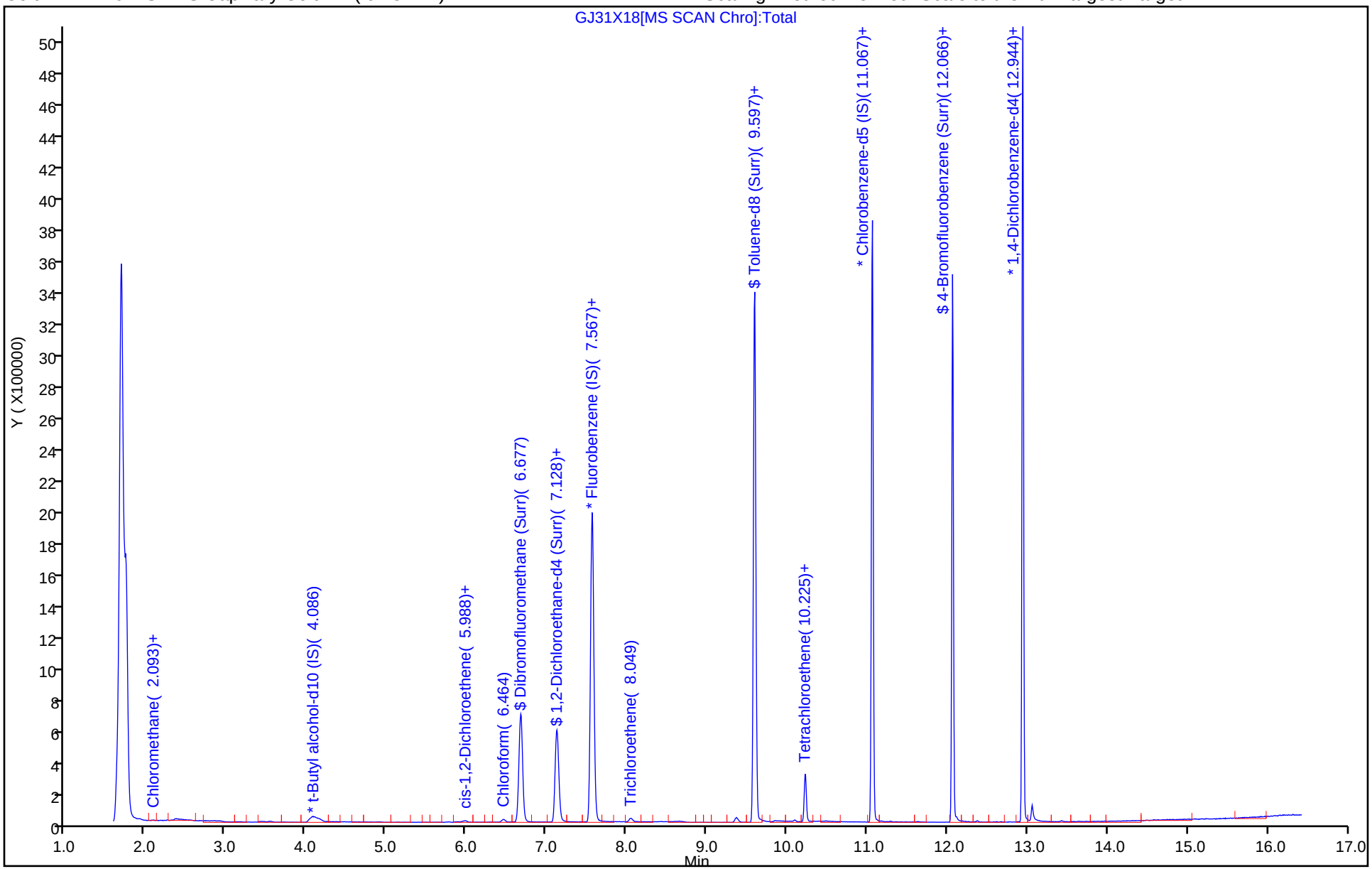
MSV_29_826ISS_00037 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 01-Feb-2023 09:22:21 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X18.D				
Injection Date:	31-Jan-2023 16:43:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-113568-A-9	Lab Sample ID:	410-113568-9	Worklist Smp#:	19
Client ID:	HD-COD-SW-26-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X18.D				
Lims ID:	410-113568-A-9				
Client ID:	HD-COD-SW-26-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Jan-2023 16:43:30	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0076112-019				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Feb-2023 09:21:48	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1655				

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:22:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	103.06
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.09
$ 83 Toluene-d8 (Surr)	10.0	9.85	98.51
$ 127 4-Bromofluorobenzene (Surr)	10.0	9.82	98.20

Report Date: 01-Feb-2023 09:22:21 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X18.D

Injection Date: 31-Jan-2023 16:43:30 Instrument ID: 16334

Lims ID: 410-113568-A-9 Lab Sample ID: 410-113568-9

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

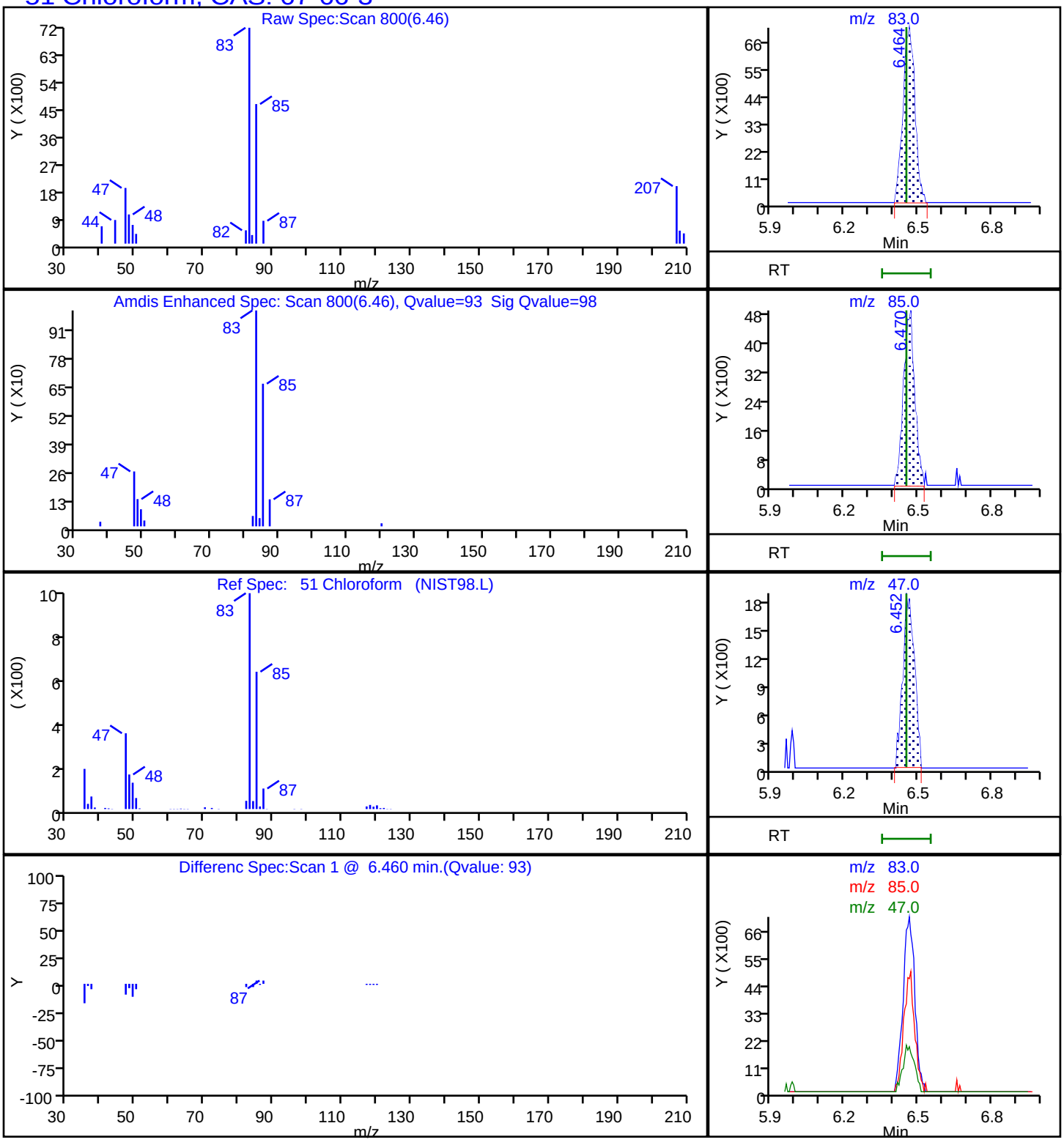
Operator ID: knk41612 ALS Bottle#: 18 Worklist Smp#: 19

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_16334_25mL Limit Group: MSV - 8260C_D

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

51 Chloroform, CAS: 67-66-3



Report Date: 01-Feb-2023 09:22:21 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X18.D

Injection Date: 31-Jan-2023 16:43:30 Instrument ID: 16334

Lims ID: 410-113568-A-9 Lab Sample ID: 410-113568-9

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

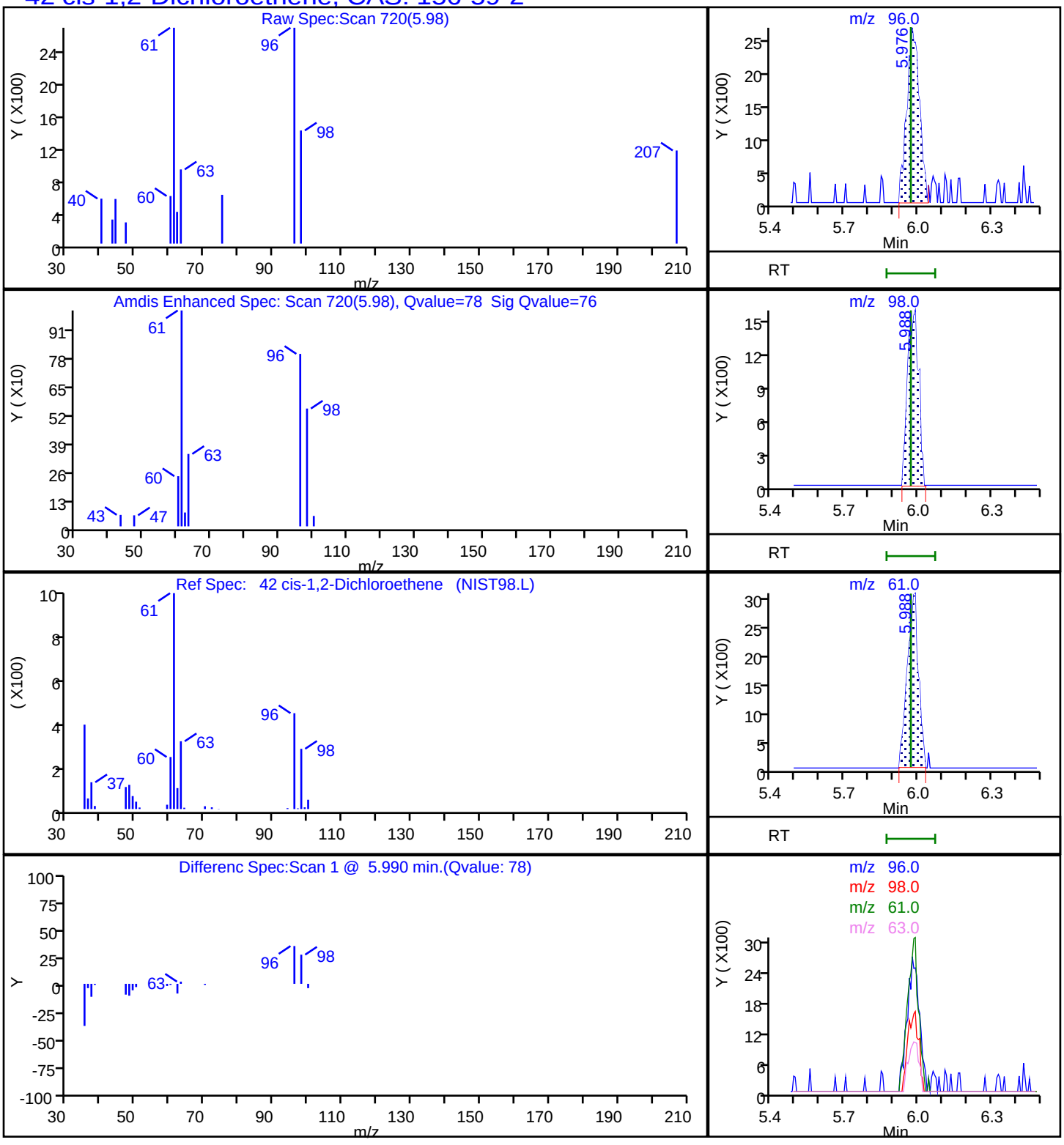
Operator ID: knk41612 ALS Bottle#: 18 Worklist Smp#: 19

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_16334_25mL Limit Group: MSV - 8260C_D

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

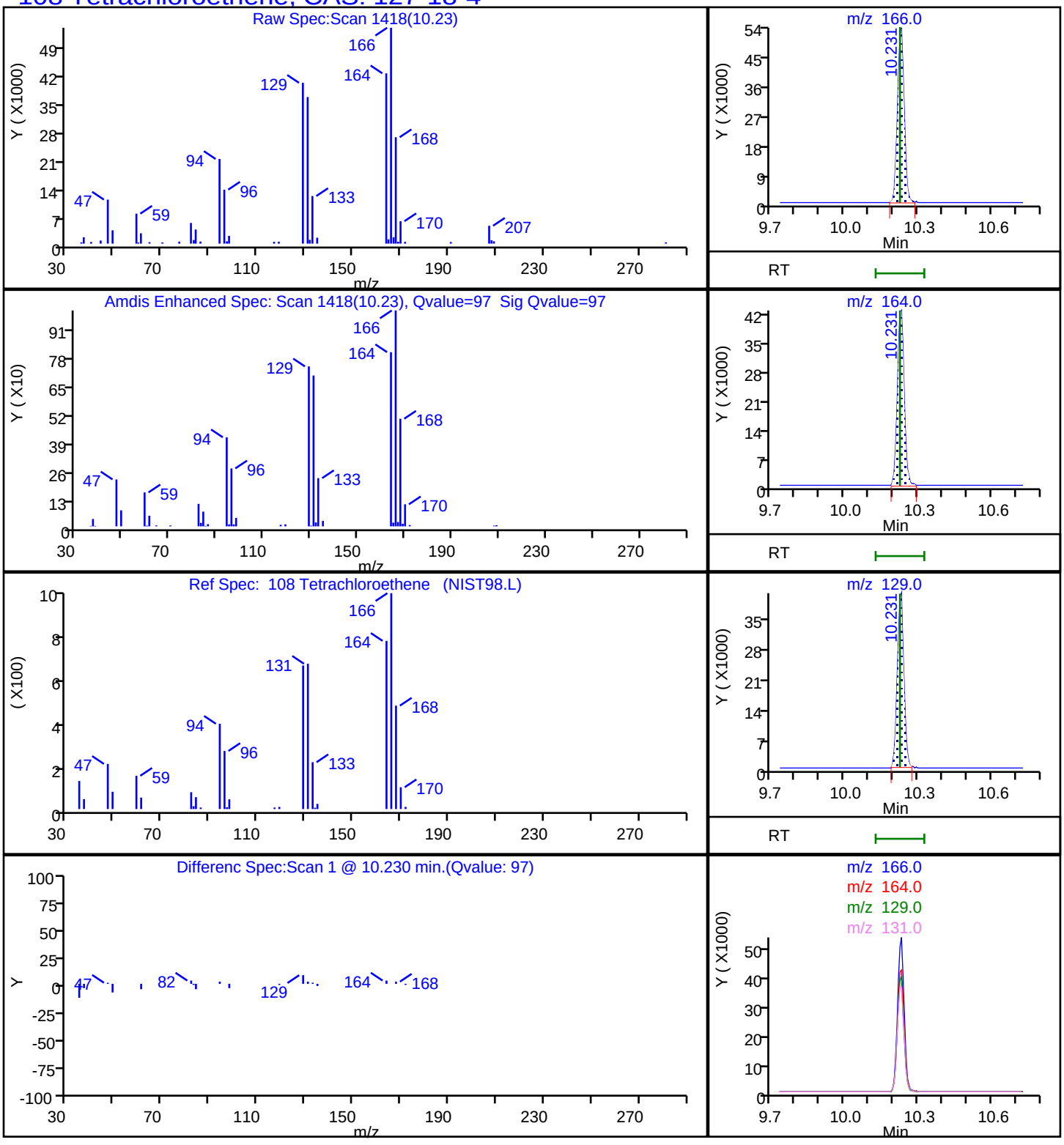
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X18.D				
Injection Date:	31-Jan-2023 16:43:30	Instrument ID:	16334		
Lims ID:	410-113568-A-9	Lab Sample ID:	410-113568-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

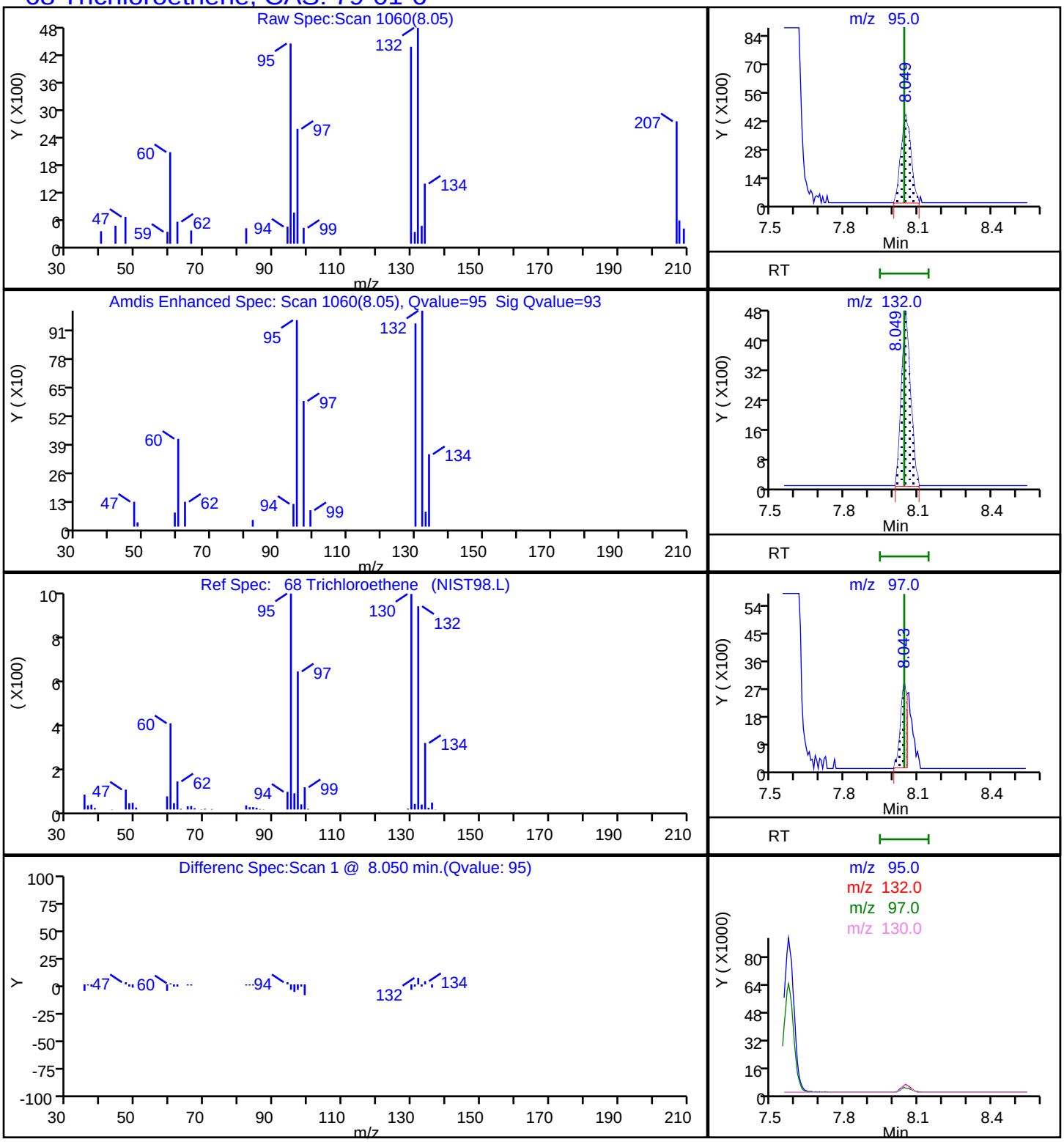
108 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X18.D				
Injection Date:	31-Jan-2023 16:43:30	Instrument ID:	16334		
Lims ID:	410-113568-A-9	Lab Sample ID:	410-113568-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	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.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-27-0/1-0
Lab Sample ID: 410-113568-10

Matrix: Water
Lab File ID: GJ31X19.D

Analysis Method: 8260D
Date Collected: 01/25/2023 11:25

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 17:05

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 340101
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	^c cn	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	0.14	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 Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-27-0/1-0
Lab Sample ID: 410-113568-10

Matrix: Water
Lab File ID: GJ31X19.D

Analysis Method: 8260D
Date Collected: 01/25/2023 11:25

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 17:05

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 340101
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	0.15	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X19.D
Lims ID: 410-113568-A-10
Client ID: HD-COD-SW-27-0/1-0
Sample Type: Client
Inject. Date: 31-Jan-2023 17:05:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076112-020
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Feb-2023 09:21:48 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1655

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:22:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.087	2.093	-0.006	95	3889	0.0353	
6 Vinyl chloride	62		2.203				ND	7
9 Bromomethane	94		2.532				ND	7
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96		3.428				ND	7
19 Acetone	43	3.477	3.452	0.025	67	10318	0.8116	
24 Carbon disulfide	76		3.714				ND	7
29 Methylene Chloride	84		4.068				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.105	4.074	0.030	1	227085	50.0	
33 Methyl tert-butyl ether	73		4.464				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63		5.135				ND	
41 2-Butanone (MEK)	43		5.940				ND	
42 cis-1,2-Dichloroethene	96	5.982	5.970	0.012	72	11205	0.1377	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.464	6.452	0.012	89	7304	0.0558	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	93	693056	10.3	
53 1,1,1-Trichloroethane	97		6.683				ND	
55 Carbon tetrachloride	117		6.897				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.122	0.006	21	146234	10.5	
60 Benzene	78		7.159				ND	7
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.561	0.006	99	2793590	10.0	
68 Trichloroethene	95	8.055	8.043	0.012	94	11987	0.1467	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	7
$ 83 Toluene-d8 (Surr)	98	9.597	9.591	0.006	94	2794211	9.92	
84 Toluene	92		9.671				ND	7
85 trans-1,3-Dichloropropene	75		9.933				ND	
107 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	10.231	10.225	0.006	95	8434	0.0904	
110 2-Hexanone	43		10.359				ND	
112 Chlorodibromomethane	129		10.518				ND	
113 Ethylene Dibromide	107		10.628				ND	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	86	2131196	10.0	
116 Chlorobenzene	112		11.091				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
118 Ethylbenzene	91		11.176				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
120 m-Xylene & p-Xylene	106		11.292				ND	7
121 o-Xylene	106		11.621				ND	
122 Styrene	104		11.640				ND	
123 Bromoform	173		11.792				ND	
$ 127 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	91	1015616	9.80	
128 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	1217420	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

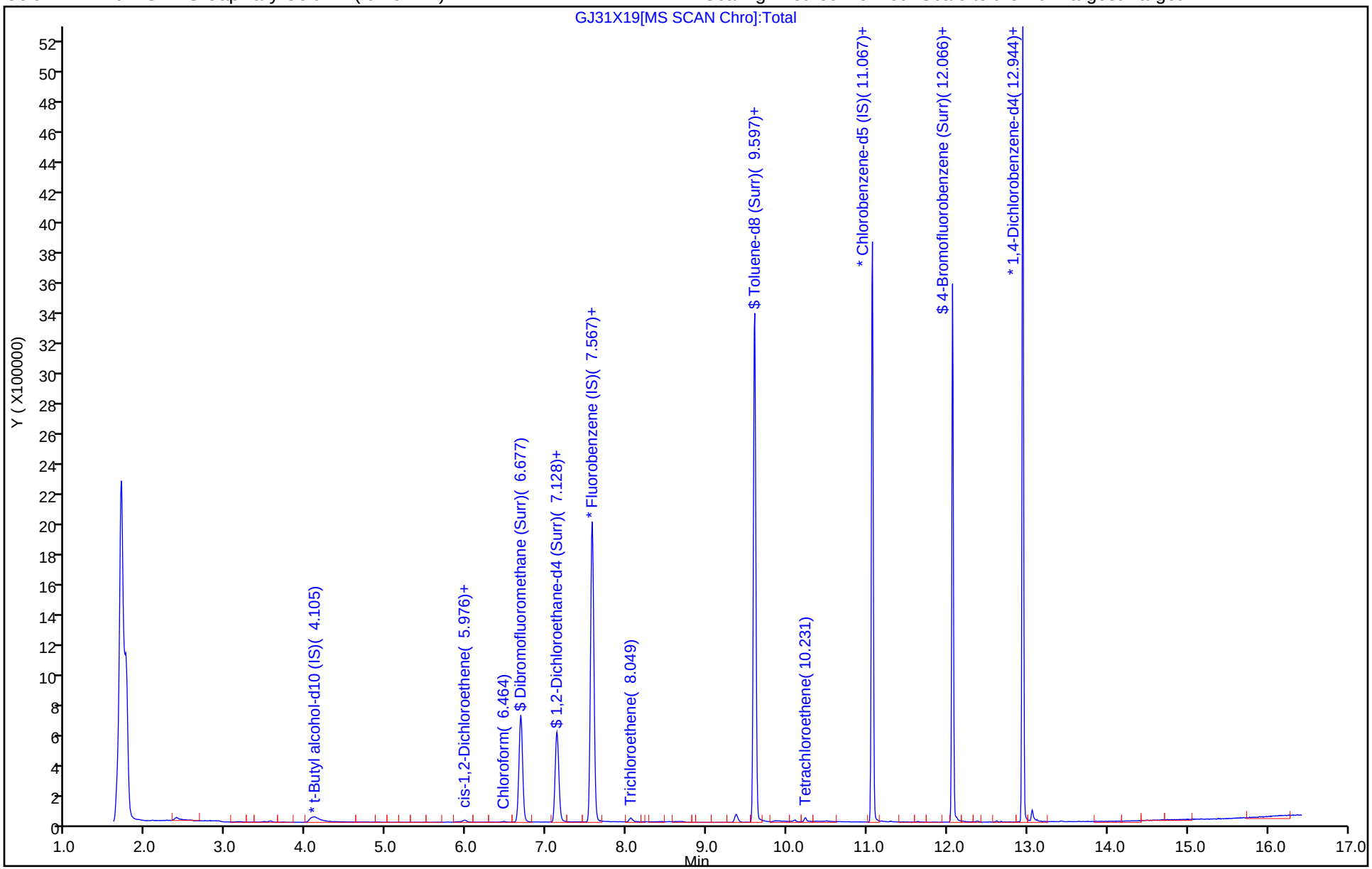
MSV_29_826ISS_00037 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 01-Feb-2023 09:22:55 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X19.D				
Injection Date:	31-Jan-2023 17:05:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-113568-A-10	Lab Sample ID:	410-113568-10	Worklist Smp#:	20
Client ID:	HD-COD-SW-27-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X19.D				
Lims ID:	410-113568-A-10				
Client ID:	HD-COD-SW-27-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Jan-2023 17:05:30	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0076112-020				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Feb-2023 09:21:48	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1655				

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:22:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	103.35
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.33
$ 83 Toluene-d8 (Surr)	10.0	9.92	99.22
$ 127 4-Bromofluorobenzene (Surr)	10.0	9.80	97.98

Report Date: 01-Feb-2023 09:22:55 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X19.D

Injection Date: 31-Jan-2023 17:05:30 Instrument ID: 16334

Lims ID: 410-113568-A-10 Lab Sample ID: 410-113568-10

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

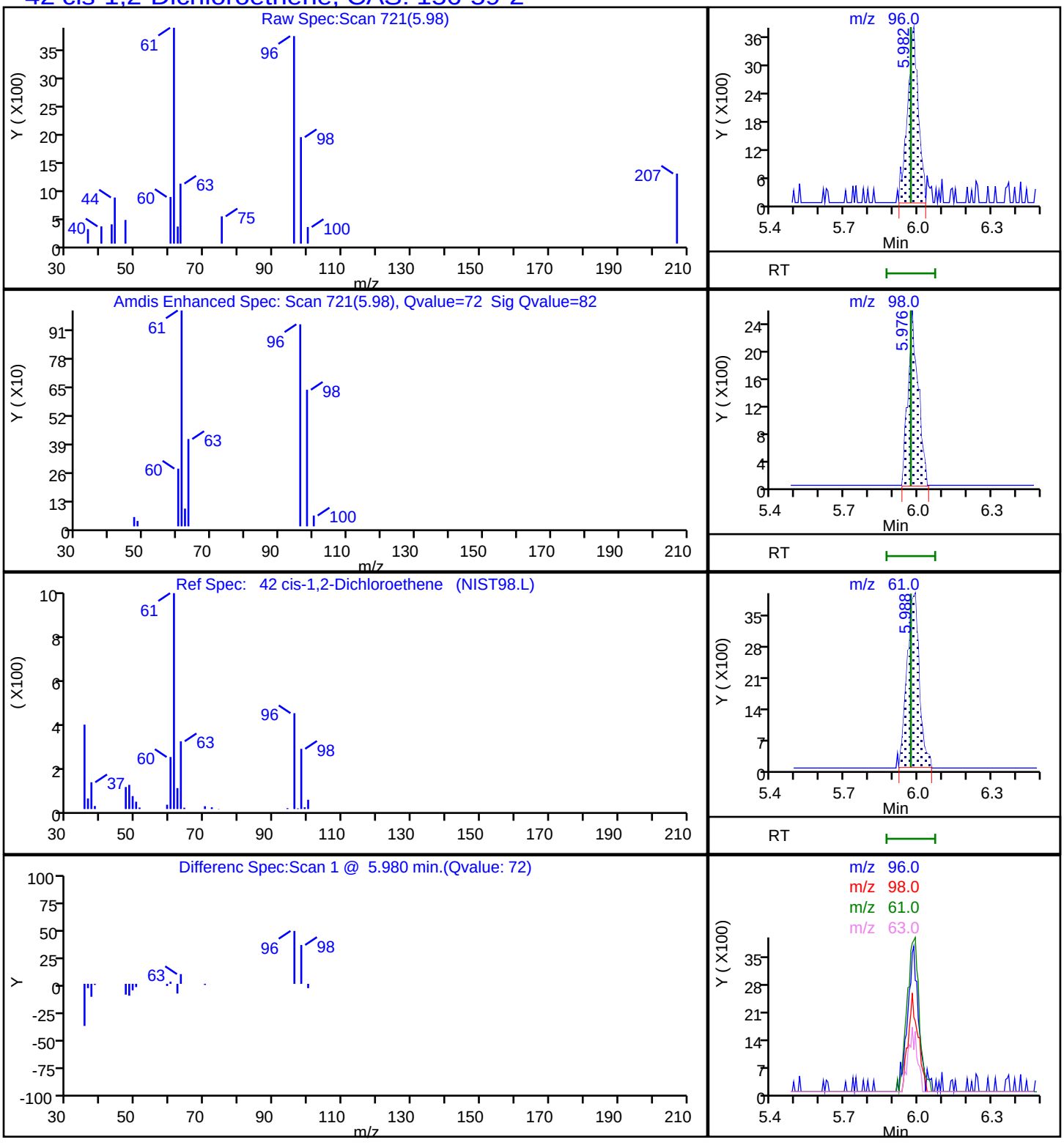
Operator ID: knk41612 ALS Bottle#: 19 Worklist Smp#: 20

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_16334_25mL Limit Group: MSV - 8260C_D

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

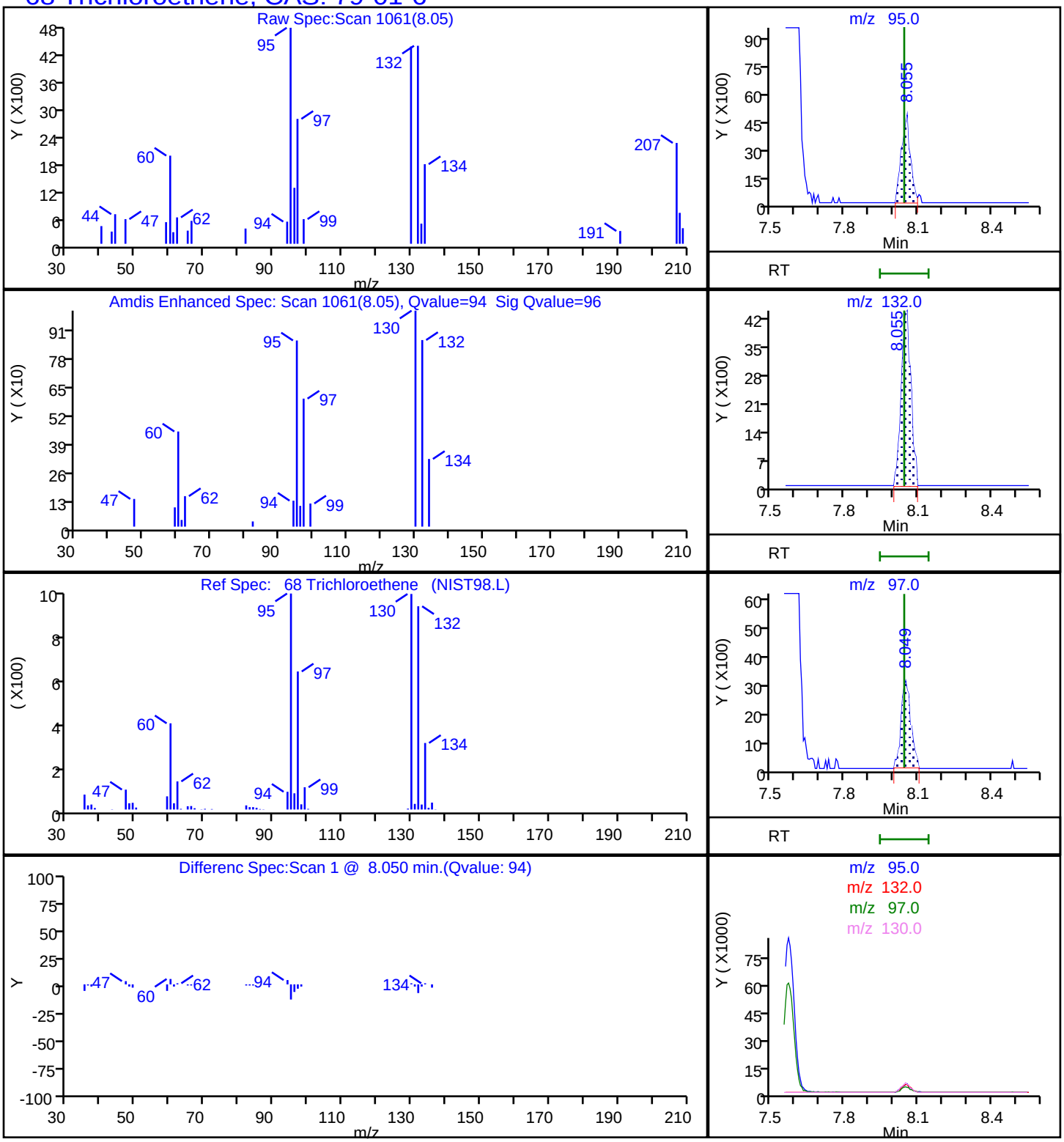
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X19.D				
Injection Date:	31-Jan-2023 17:05:30	Instrument ID:	16334		
Lims ID:	410-113568-A-10	Lab Sample ID:	410-113568-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	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.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-28-0/1-0
Lab Sample ID: 410-113568-11

Matrix: Water
Lab File ID: GJ31X20.D

Analysis Method: 8260D
Date Collected: 01/25/2023 12:55

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 17:26

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 340101
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	1.5	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	^c cn	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	0.14	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 Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-28-0/1-0
Lab Sample ID: 410-113568-11

Matrix: Water
Lab File ID: GJ31X20.D

Analysis Method: 8260D
Date Collected: 01/25/2023 12:55

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 17:26

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 340101
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)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X20.D
Lims ID: 410-113568-A-11
Client ID: HD-COD-SW-28-0/1-0
Sample Type: Client
Inject. Date: 31-Jan-2023 17:26:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076112-021
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Feb-2023 09:23:36 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1655

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:23:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.081	2.093	-0.012	93	5861	0.0536	a
6 Vinyl chloride	62		2.203				ND	
9 Bromomethane	94		2.532				ND	7
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96		3.428				ND	
19 Acetone	43	3.458	3.452	0.006	95	18500	1.50	
24 Carbon disulfide	76		3.714				ND	7
29 Methylene Chloride	84		4.068				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.092	4.074	0.018	1	220335	50.0	
33 Methyl tert-butyl ether	73		4.464				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63		5.135				ND	
41 2-Butanone (MEK)	43		5.940				ND	
42 cis-1,2-Dichloroethene	96	5.982	5.970	0.012	80	11588	0.1436	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.464	6.452	0.012	90	8812	0.0679	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	93	685935	10.3	
53 1,1,1-Trichloroethane	97		6.683				ND	7
55 Carbon tetrachloride	117		6.897				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.122	0.006	21	145478	10.6	
60 Benzene	78		7.159				ND	
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.561	0.006	99	2770532	10.0	
68 Trichloroethene	95	8.043	8.043	0.000	94	11042	0.1363	a
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	7
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	7
$ 83 Toluene-d8 (Surr)	98	9.597	9.591	0.006	94	2768808	9.91	
84 Toluene	92	9.671	9.671	0.000	97	8216	0.0418	
85 trans-1,3-Dichloropropene	75		9.933				ND	
107 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	10.231	10.225	0.006	95	15792	0.1706	
110 2-Hexanone	43		10.359				ND	
112 Chlorodibromomethane	129		10.518				ND	
113 Ethylene Dibromide	107		10.628				ND	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	86	2114619	10.0	
116 Chlorobenzene	112		11.091				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
118 Ethylbenzene	91		11.176				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
120 m-Xylene & p-Xylene	106		11.292				ND	7
121 o-Xylene	106		11.621				ND	7
122 Styrene	104		11.640				ND	7
123 Bromoform	173		11.792				ND	
$ 127 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	91	1002391	9.75	
128 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	1211770	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSV_29_826ISS_00037 Amount Added: 1.00 Units: uL Run Reagent

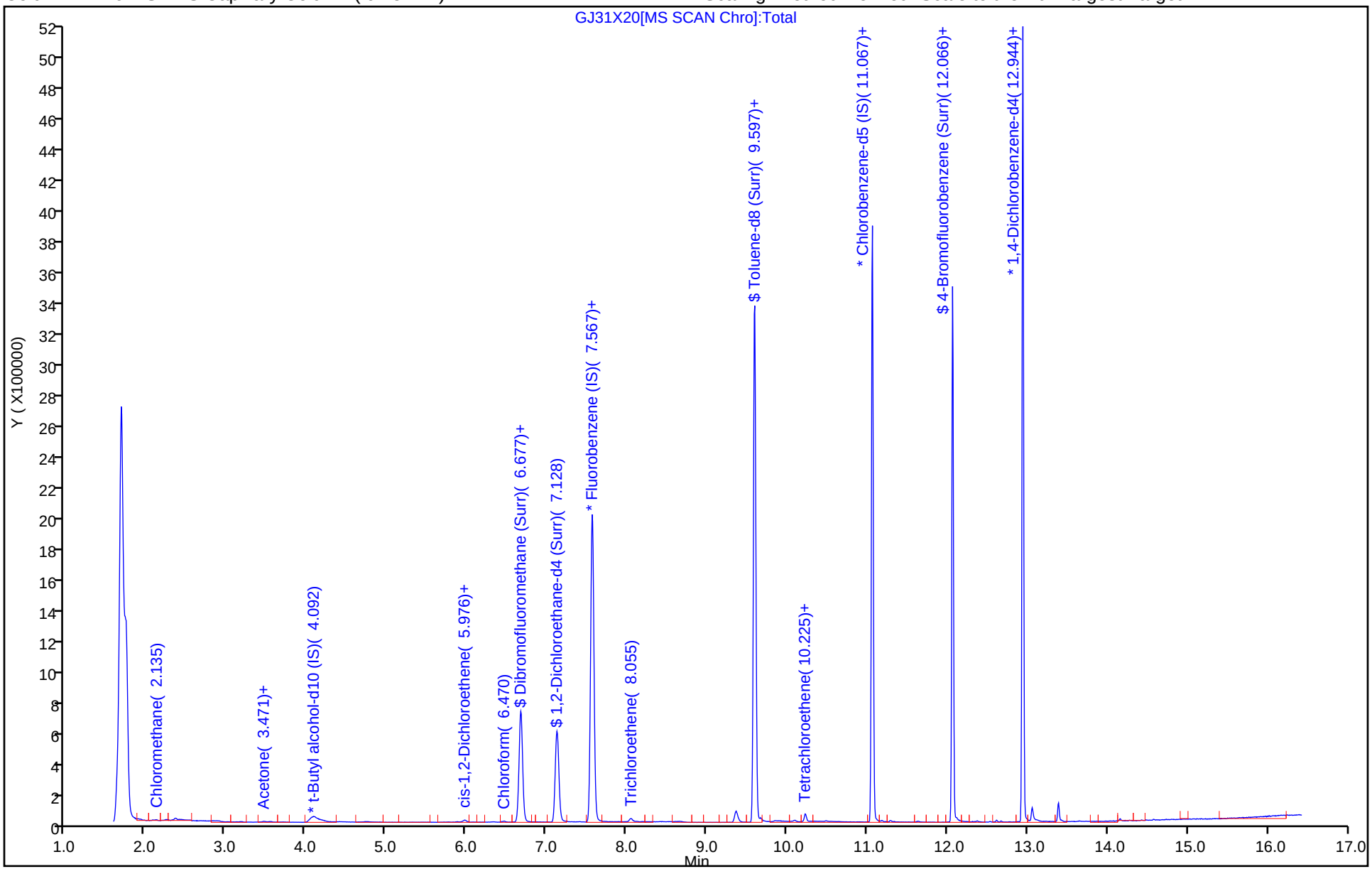
Report Date: 01-Feb-2023 09:23:36 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X20.D

Injection Date:	31-Jan-2023 17:26:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-113568-A-11	Lab Sample ID:	410-113568-11	Worklist Smp#:	21
Client ID:	HD-COD-SW-28-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X20.D				
Lims ID:	410-113568-A-11				
Client ID:	HD-COD-SW-28-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Jan-2023 17:26:30	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0076112-021				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Feb-2023 09:23:36	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1655				

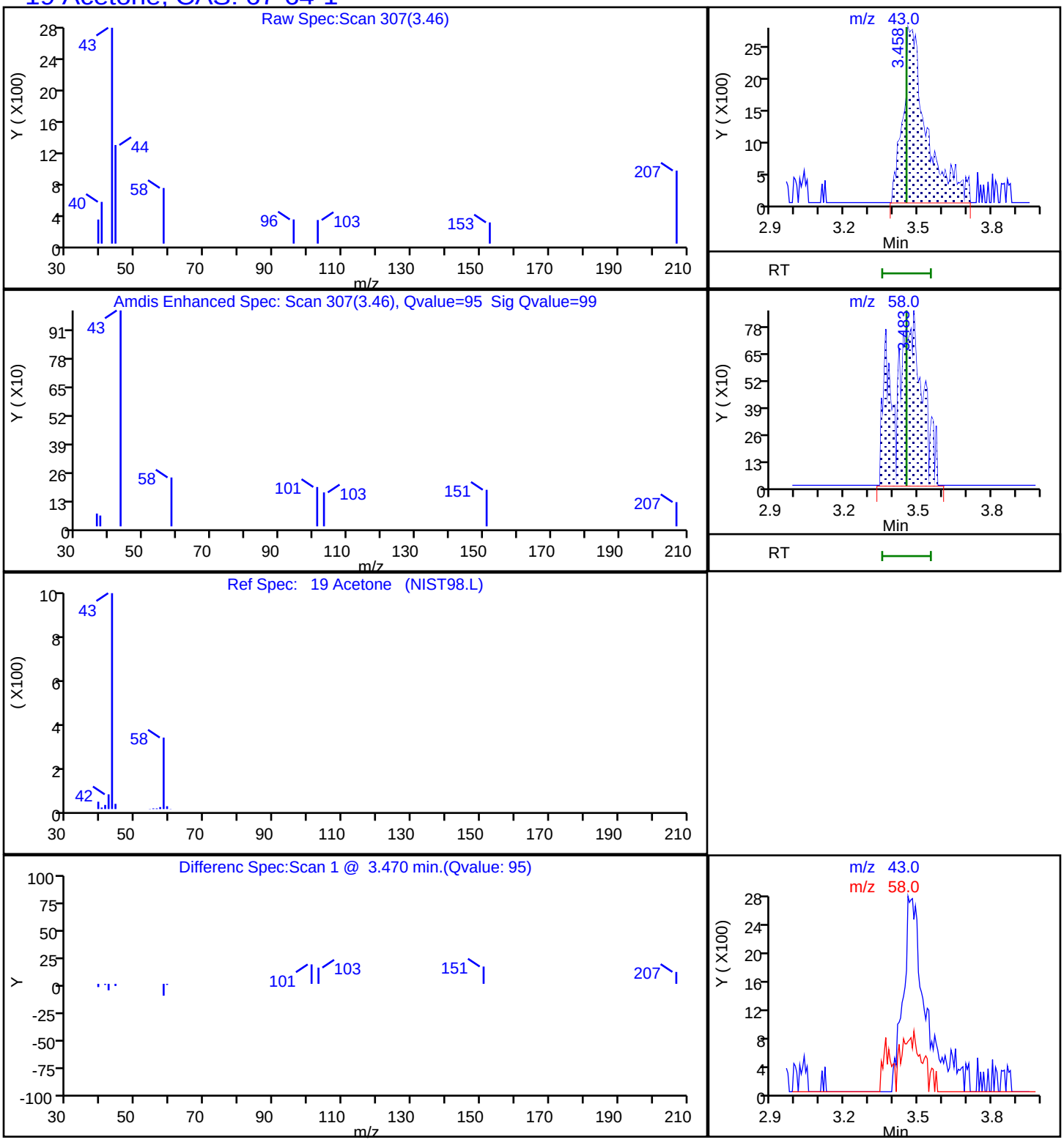
First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:23:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	103.14
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.65
$ 83 Toluene-d8 (Surr)	10.0	9.91	99.09
$ 127 4-Bromofluorobenzene (Surr)	10.0	9.75	97.46

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X20.D				
Injection Date:	31-Jan-2023 17:26:30	Instrument ID:	16334		
Lims ID:	410-113568-A-11	Lab Sample ID:	410-113568-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

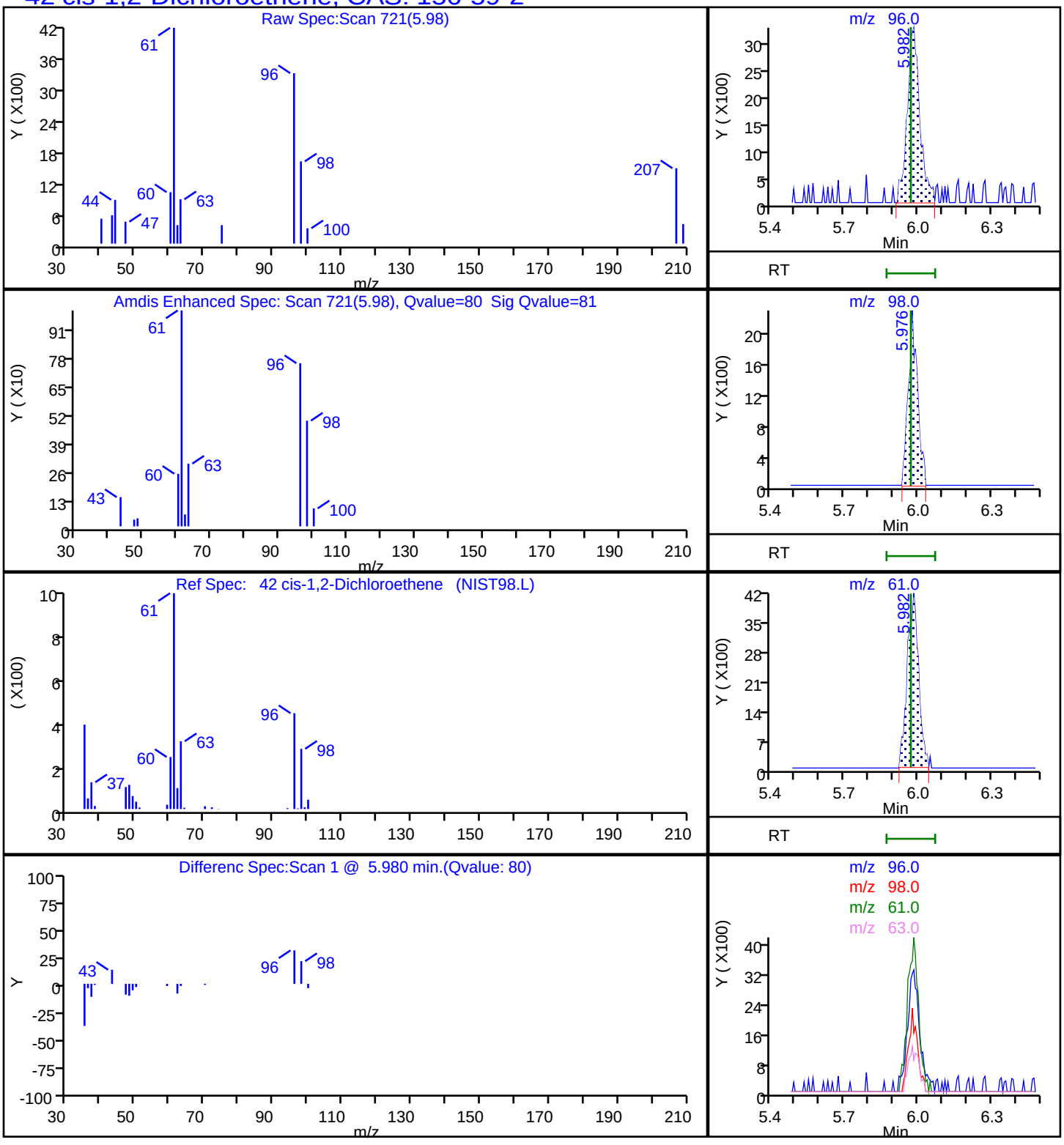
19 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X20.D				
Injection Date:	31-Jan-2023 17:26:30	Instrument ID:	16334		
Lims ID:	410-113568-A-11	Lab Sample ID:	410-113568-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

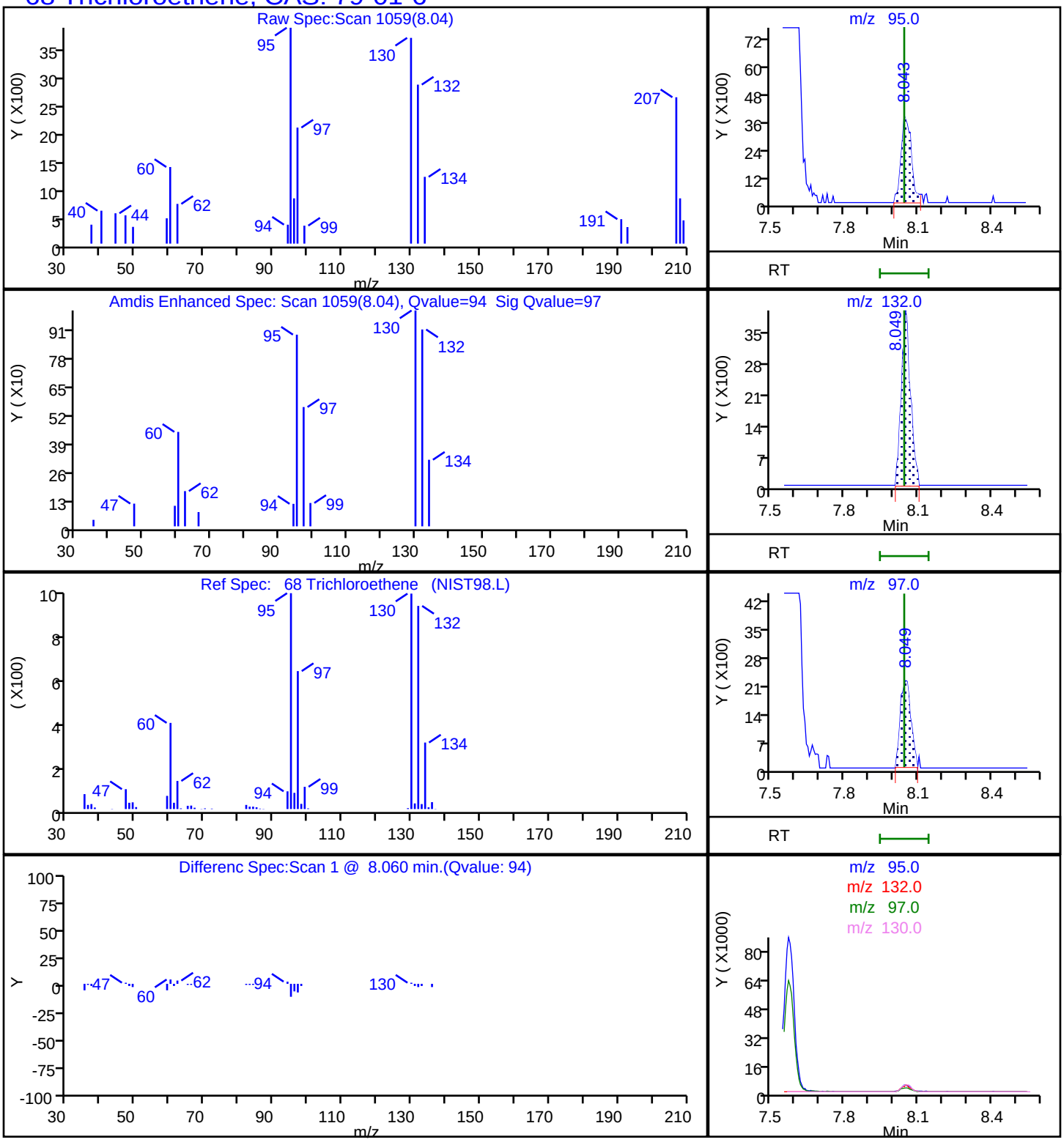
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X20.D				
Injection Date:	31-Jan-2023 17:26:30	Instrument ID:	16334		
Lims ID:	410-113568-A-11	Lab Sample ID:	410-113568-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

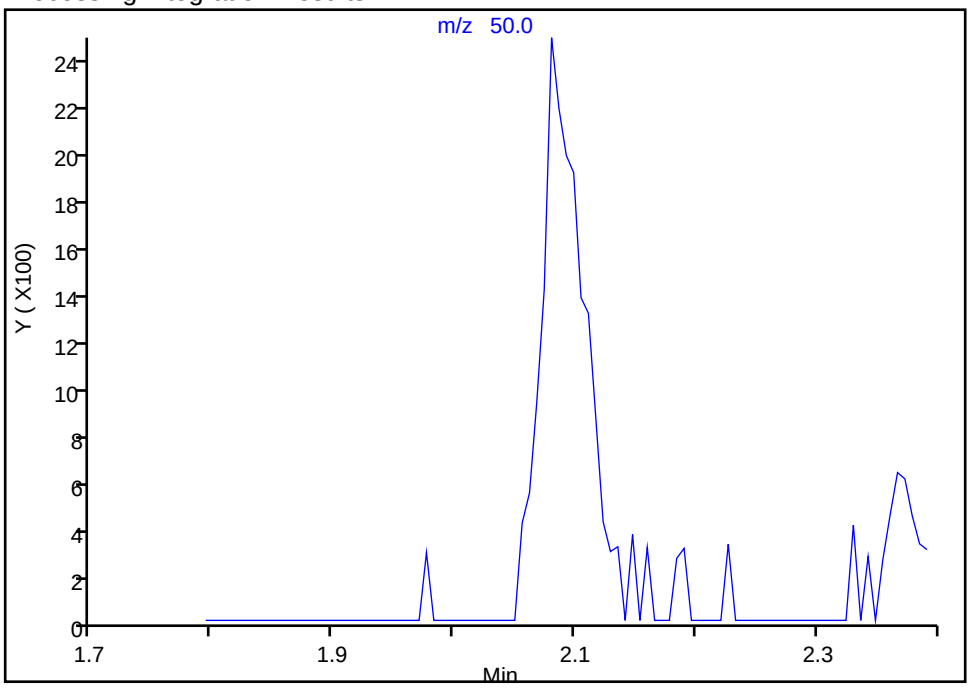
Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X20.D				
Injection Date:	31-Jan-2023 17:26:30	Instrument ID:	16334		
Lims ID:	410-113568-A-11	Lab Sample ID:	410-113568-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

5 Chloromethane, CAS: 74-87-3

Signal: 1

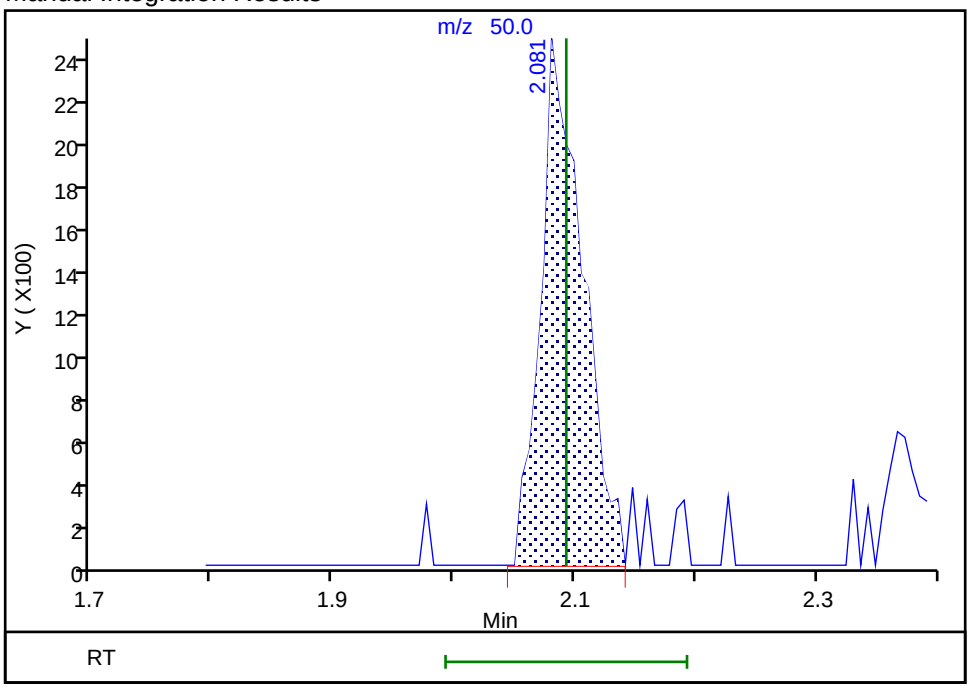
Not Detected
Expected RT: 2.09

Processing Integration Results



Manual Integration Results

RT: 2.08
Area: 5861
Amount: 0.053650
Amount Units: ug/l



Reviewer: kaewrungrueangp, 01-Feb-2023 09:23:06
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

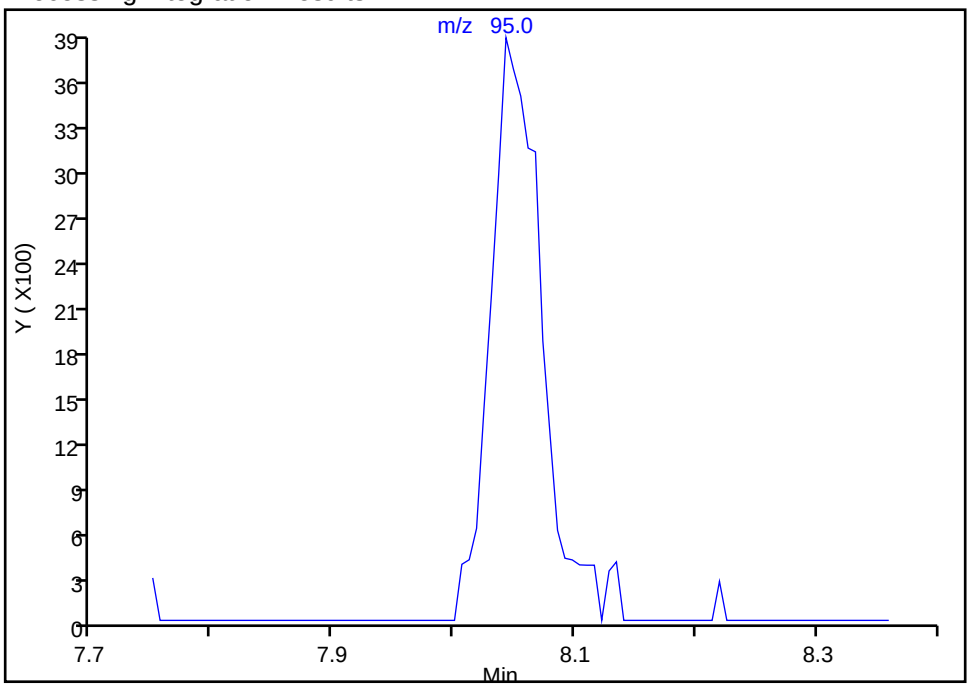
Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X20.D				
Injection Date:	31-Jan-2023 17:26:30	Instrument ID:	16334		
Lims ID:	410-113568-A-11	Lab Sample ID:	410-113568-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6

Signal: 1

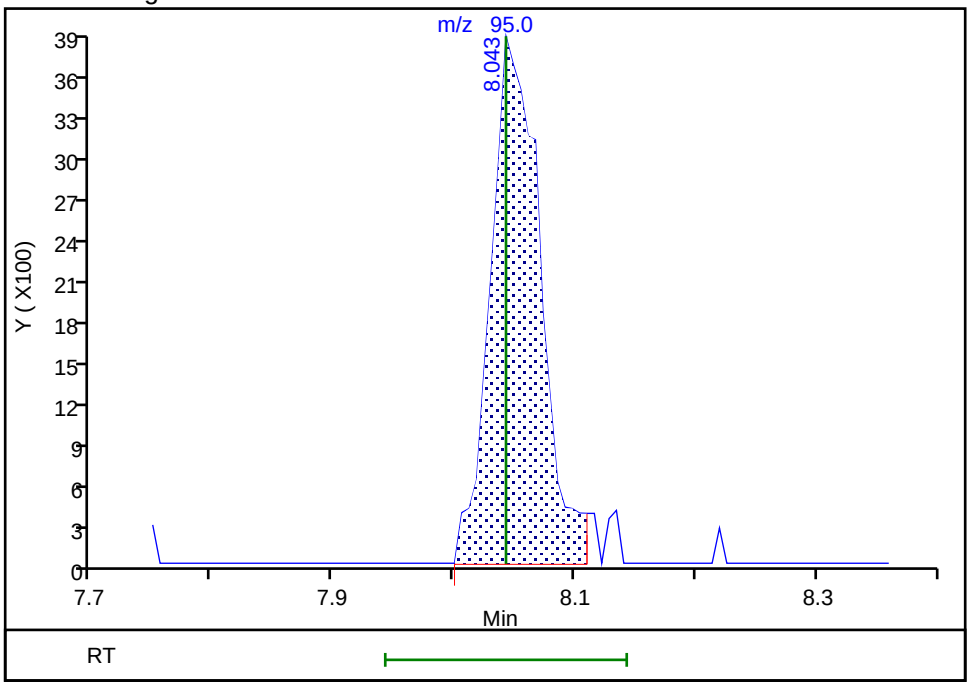
Not Detected
Expected RT: 8.04

Processing Integration Results



Manual Integration Results

RT: 8.04
Area: 11042
Amount: 0.136275
Amount Units: ug/l



Reviewer: kaewrungrueangp, 01-Feb-2023 09:23:21
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-29-0/1-0
Lab Sample ID: 410-113568-12

Matrix: Water
Lab File ID: GJ31X21.D

Analysis Method: 8260D
Date Collected: 01/25/2023 08:45

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 17:48

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.: 340101
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	^c cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.15	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.27	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.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-29-0/1-0
Lab Sample ID: 410-113568-12

Matrix: Water
Lab File ID: GJ31X21.D

Analysis Method: 8260D
Date Collected: 01/25/2023 08:45

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 17:48

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.: 340101
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	0.15	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)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X21.D
Lims ID: 410-113568-A-12
Client ID: HD-COD-SW-29-0/1-0
Sample Type: Client
Inject. Date: 31-Jan-2023 17:48:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076112-022
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Feb-2023 09:23:36 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1655

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:24:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.081	2.093	-0.012	12	4651	0.0425	
6 Vinyl chloride	62		2.203				ND	7
9 Bromomethane	94		2.532				ND	
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96		3.428				ND	7
19 Acetone	43	3.452	3.452	0.000	69	12175	0.9363	
24 Carbon disulfide	76		3.714				ND	7
29 Methylene Chloride	84		4.068				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.093	4.074	0.019	1	232274	50.0	
33 Methyl tert-butyl ether	73		4.464				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63		5.135				ND	
41 2-Butanone (MEK)	43		5.940				ND	
42 cis-1,2-Dichloroethene	96	5.976	5.970	0.006	78	11985	0.1483	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.452	6.452	0.000	90	5591	0.0430	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.671	0.000	94	685745	10.3	
53 1,1,1-Trichloroethane	97		6.683				ND	7
55 Carbon tetrachloride	117		6.897				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.122	7.122	0.000	24	140894	10.2	
60 Benzene	78		7.159				ND	7
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.561	0.006	99	2775801	10.0	
68 Trichloroethene	95	8.043	8.043	0.000	97	12424	0.1530	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	7
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	7
$ 83 Toluene-d8 (Surr)	98	9.591	9.591	0.000	94	2749752	9.91	
84 Toluene	92		9.671				ND	7
85 trans-1,3-Dichloropropene	75		9.933				ND	
107 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	10.232	10.225	0.007	97	24842	0.2704	
110 2-Hexanone	43		10.359				ND	
112 Chlorodibromomethane	129		10.518				ND	
113 Ethylene Dibromide	107		10.628				ND	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	86	2099159	10.0	
116 Chlorobenzene	112		11.091				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
118 Ethylbenzene	91		11.176				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
120 m-Xylene & p-Xylene	106		11.292				ND	7
121 o-Xylene	106		11.621				ND	
122 Styrene	104		11.640				ND	
123 Bromoform	173		11.792				ND	
$ 127 4-Bromofluorobenzene (Surr)	95	12.067	12.066	0.001	90	1010870	9.90	
128 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	1191348	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_29_826ISS_00037 Amount Added: 1.00 Units: uL Run Reagent

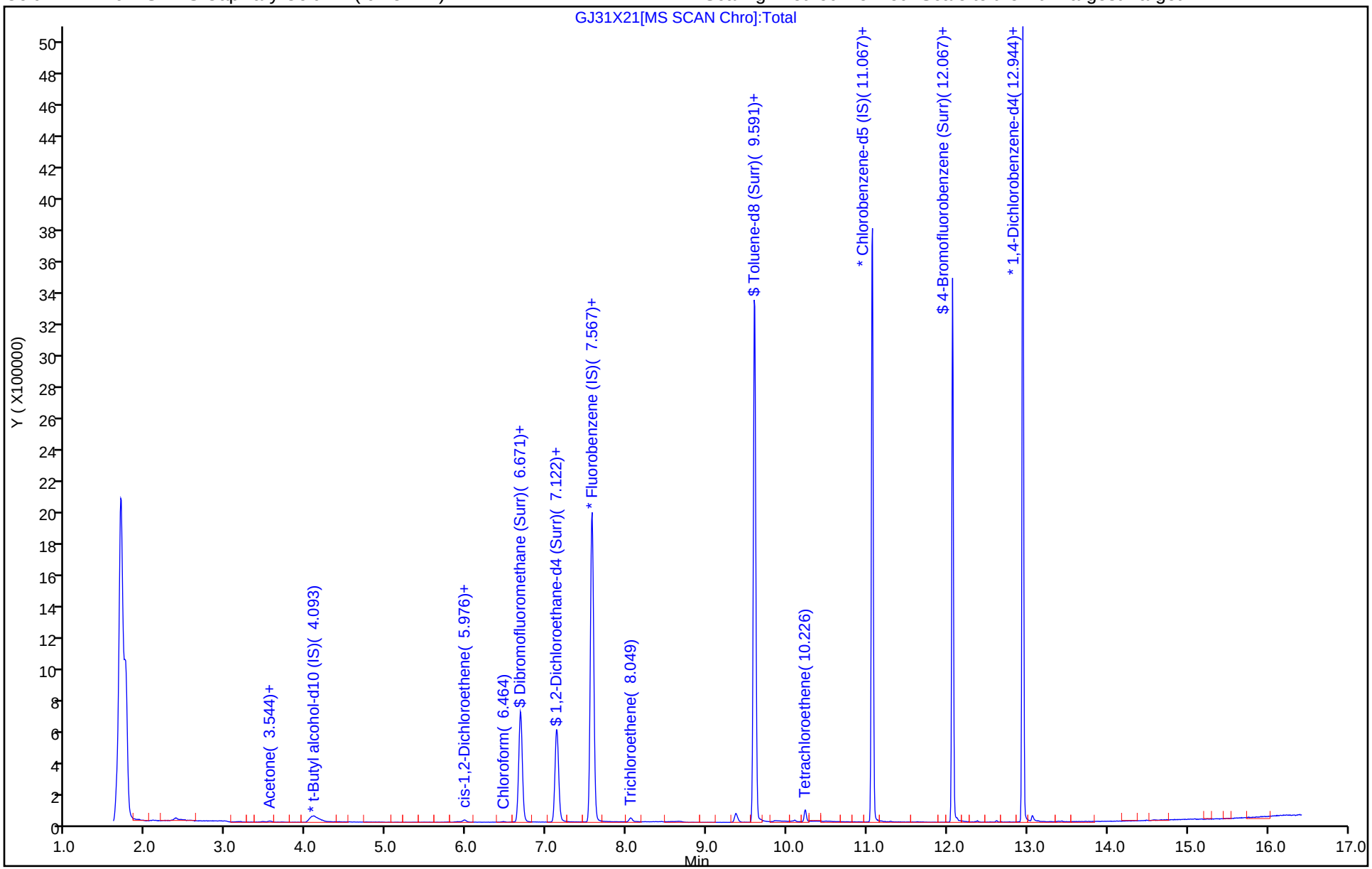
Report Date: 01-Feb-2023 09:24:07 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X21.D

Injection Date:	31-Jan-2023 17:48:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-113568-A-12	Lab Sample ID:	410-113568-12	Worklist Smp#:	22
Client ID:	HD-COD-SW-29-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X21.D				
Lims ID:	410-113568-A-12				
Client ID:	HD-COD-SW-29-0/1-0				
Sample Type:	Client				
Inject. Date:	31-Jan-2023 17:48:30	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0076112-022				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Feb-2023 09:23:36	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1655				

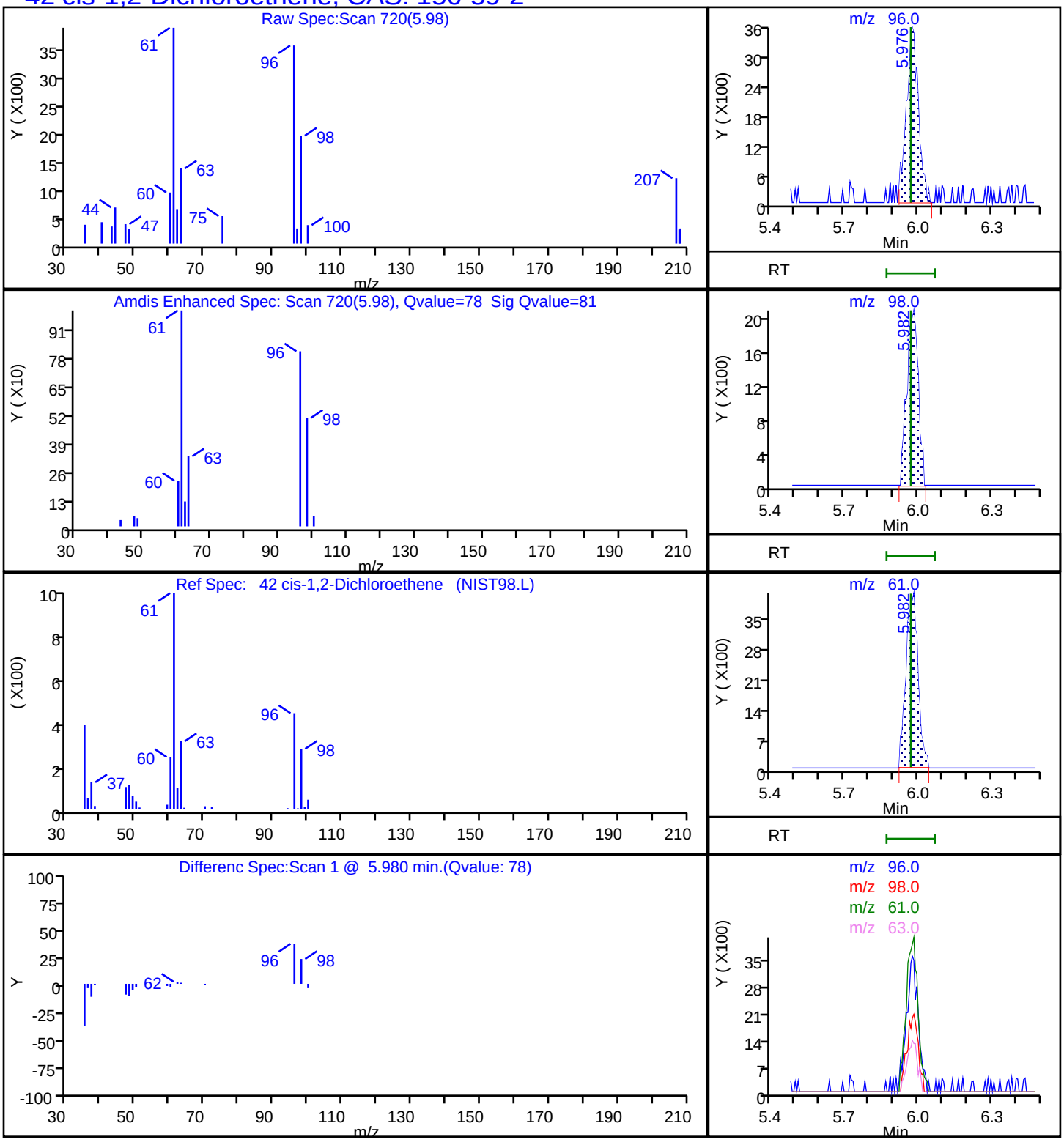
First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:24:06

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	102.92
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.13
$ 83 Toluene-d8 (Surr)	10.0	9.91	99.13
$ 127 4-Bromofluorobenzene (Surr)	10.0	9.90	99.01

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X21.D				
Injection Date:	31-Jan-2023 17:48:30	Instrument ID:	16334		
Lims ID:	410-113568-A-12	Lab Sample ID:	410-113568-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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



Report Date: 01-Feb-2023 09:24:07 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X21.D

Injection Date: 31-Jan-2023 17:48:30 Instrument ID: 16334

Lims ID: 410-113568-A-12 Lab Sample ID: 410-113568-12

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

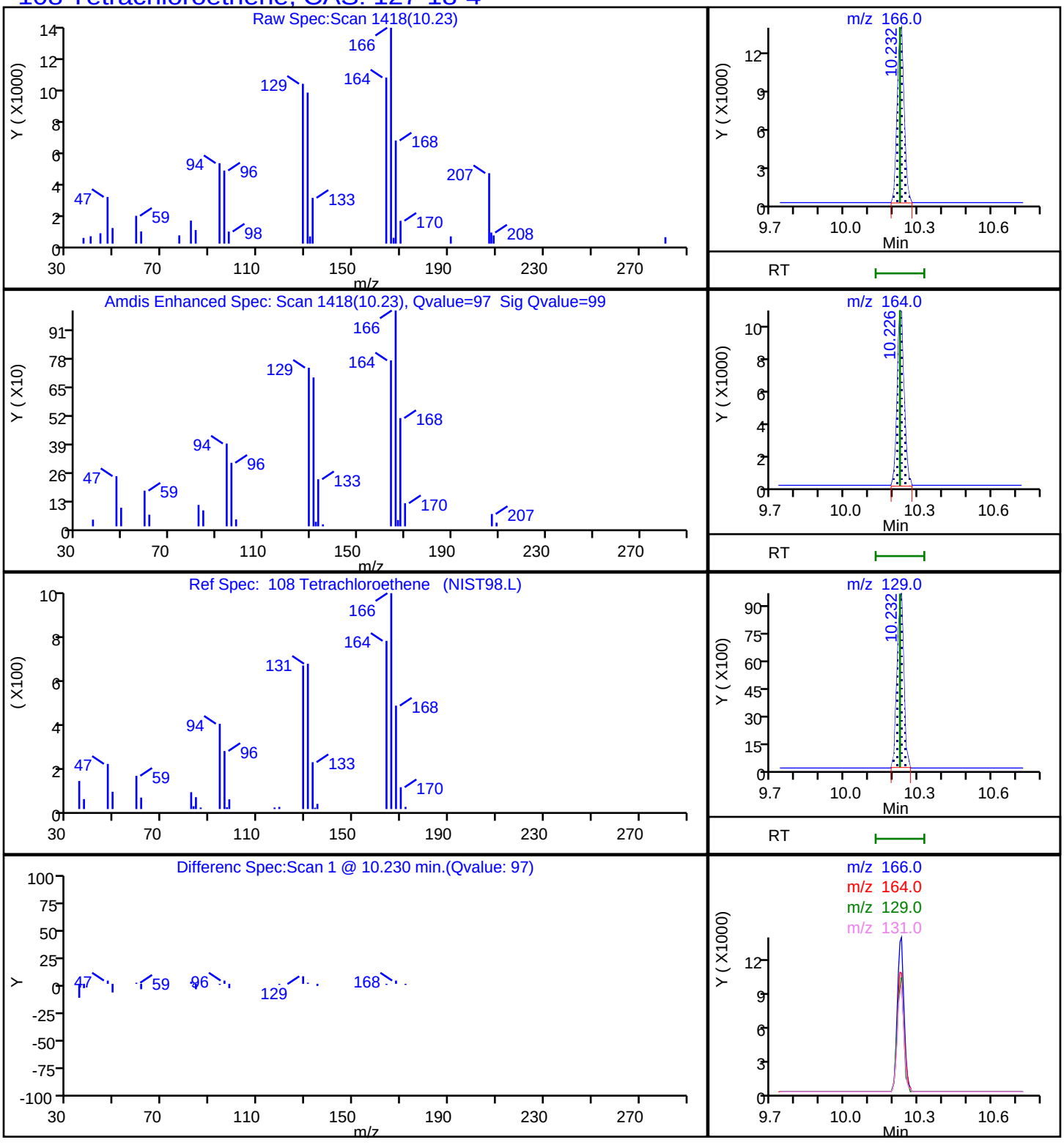
Operator ID: knk41612 ALS Bottle#: 21 Worklist Smp#: 22

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_16334_25mL Limit Group: MSV - 8260C_D

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

108 Tetrachloroethene, CAS: 127-18-4

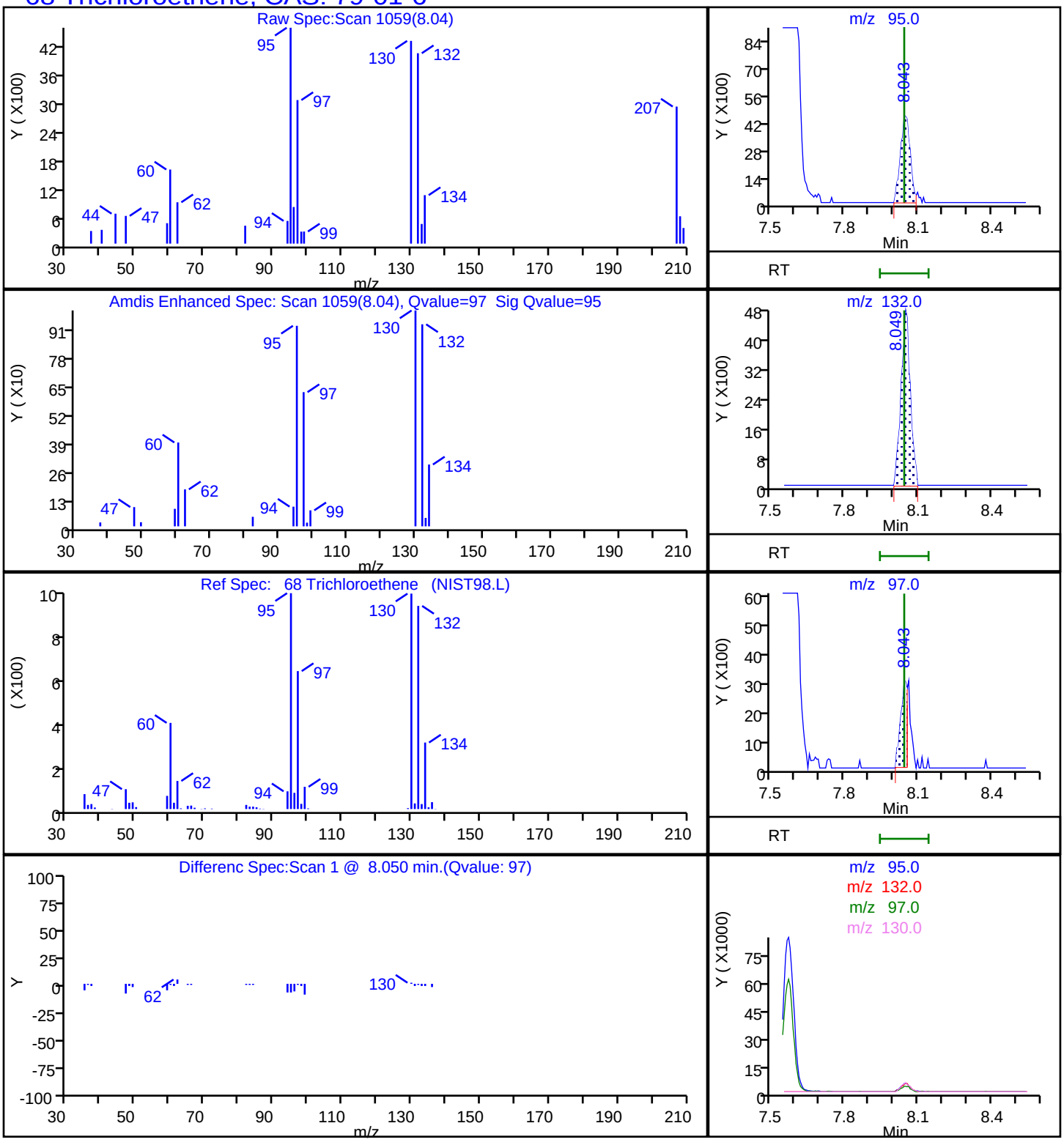


Report Date: 01-Feb-2023 09:24:07 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X21.D				
Injection Date:	31-Jan-2023 17:48:30	Instrument ID:	16334		
Lims ID:	410-113568-A-12	Lab Sample ID:	410-113568-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	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.: 410-113568-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1
Lab Sample ID: 410-113568-13

Matrix: Water
Lab File ID: GJ31X06.D

Analysis Method: 8260D
Date Collected: 01/25/2023 08:00

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 12:18

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.: 340101
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	5.4		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	1.0		0.50	0.10
75-35-4	1,1-Dichloroethene	0.47	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	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	^c cn	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	0.25	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	3.1		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
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.: 410-113568-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1
Lab Sample ID: 410-113568-13

Matrix: Water
Lab File ID: GJ31X06.D

Analysis Method: 8260D
Date Collected: 01/25/2023 08:00

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 12:18

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.: 340101
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	3.6		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X06.D
Lims ID: 410-113568-A-13
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 31-Jan-2023 12:18:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076112-007
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Feb-2023 09:08:11 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1655

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:08:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.093				ND	7
6 Vinyl chloride	62		2.203				ND	7
9 Bromomethane	94		2.532				ND	7
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96	3.428	3.428	0.000	97	31048	0.4656	
19 Acetone	43		3.452				ND	U
24 Carbon disulfide	76		3.714				ND	7
29 Methylene Chloride	84		4.068				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.080	4.074	0.006	1	204992	50.0	
33 Methyl tert-butyl ether	73	4.452	4.464	-0.012	75	6535	0.0361	
34 trans-1,2-Dichloroethene	96		4.464				ND	7
37 1,1-Dichloroethane	63	5.129	5.135	-0.006	96	136617	1.02	
41 2-Butanone (MEK)	43		5.940				ND	
42 cis-1,2-Dichloroethene	96	5.976	5.970	0.006	80	259076	3.11	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.458	6.452	0.006	94	33977	0.2532	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.671	0.000	93	702781	10.2	
53 1,1,1-Trichloroethane	97	6.683	6.683	0.000	98	621610	5.38	
55 Carbon tetrachloride	117	6.897	6.897	0.000	22	3767	0.0370	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.122	7.122	0.000	21	147849	10.4	
60 Benzene	78		7.159				ND	7
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.561	0.006	99	2864553	10.0	
68 Trichloroethene	95	8.043	8.043	0.000	98	305523	3.65	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	
$ 83 Toluene-d8 (Surr)	98	9.591	9.591	0.000	93	2846083	9.68	
84 Toluene	92		9.671				ND	7
85 trans-1,3-Dichloropropene	75		9.933				ND	
107 1,1,2-Trichloroethane	97	10.140	10.140	0.000	1	2063	0.0340	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	10.225	10.225	0.000	98	7340691	75.3	E
110 2-Hexanone	43		10.359				ND	
112 Chlorodibromomethane	129		10.518				ND	
113 Ethylene Dibromide	107		10.628				ND	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	86	2225969	10.0	
116 Chlorobenzene	112	11.097	11.091	0.006	56	2582	0.0106	a
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
118 Ethylbenzene	91		11.176				ND	
S 119 Xylenes, Total	106		11.245				ND	7
120 m-Xylene & p-Xylene	106		11.292				ND	7
121 o-Xylene	106		11.621				ND	
122 Styrene	104		11.640				ND	
123 Bromoform	173		11.792				ND	
$ 127 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	91	1048150	9.68	
128 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	1247434	10.0	

QC Flag Legend

Processing Flags
- E - Exceeded Maximum Amount
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected
- a - User Assigned ID

Reagents:

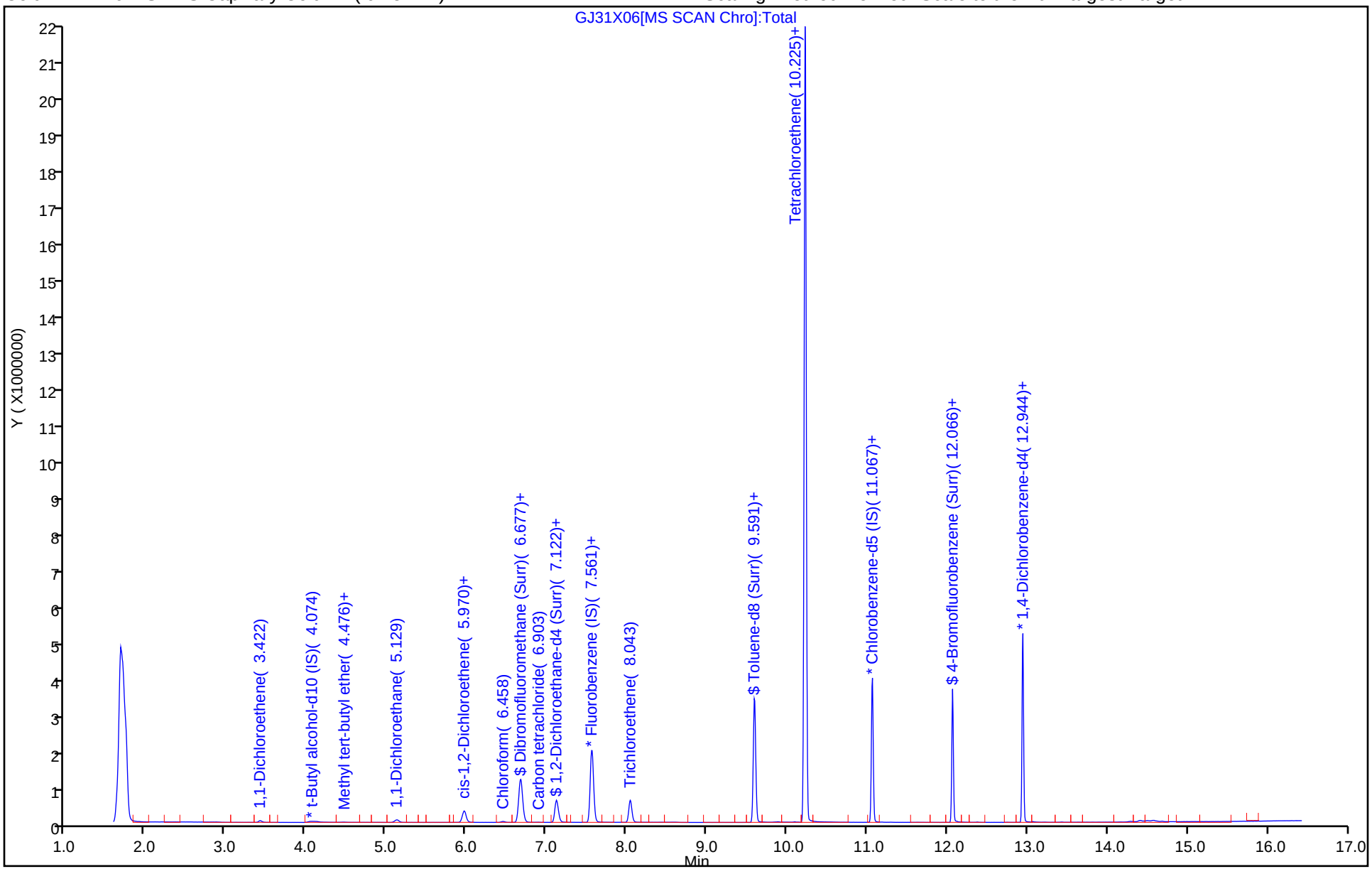
MSV_29_826ISS_00037 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 01-Feb-2023 09:08:12 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X06.D				
Injection Date:	31-Jan-2023 12:18:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-113568-A-13	Lab Sample ID:	410-113568-13	Worklist Smp#:	7
Client ID:	HD-QC1-0/1-1				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X06.D				
Lims ID:	410-113568-A-13				
Client ID:	HD-QC1-0/1-1				
Sample Type:	Client				
Inject. Date:	31-Jan-2023 12:18:30	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0076112-007				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Feb-2023 09:08:11	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1655				

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:08:11

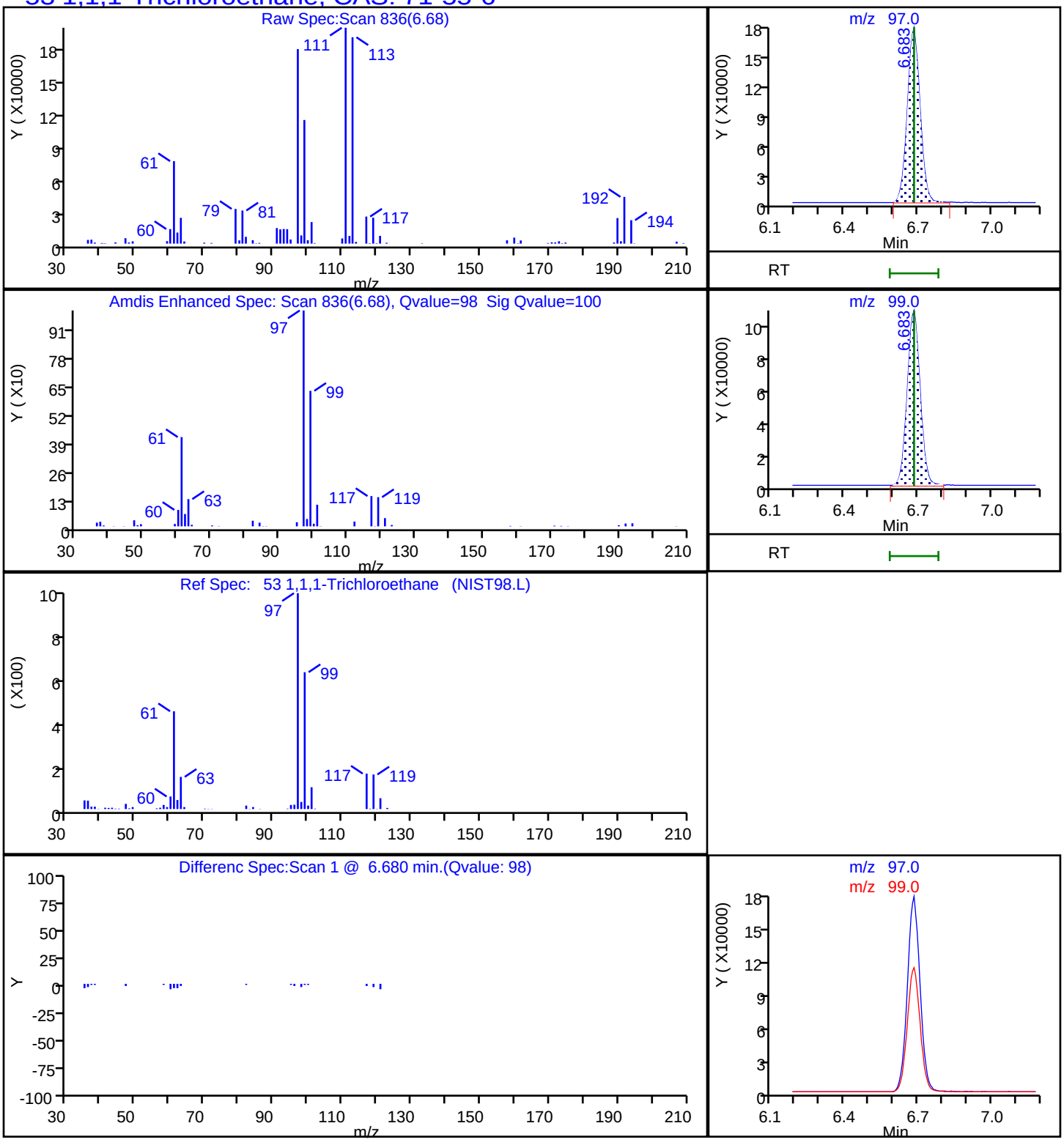
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.2	102.20
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.85
$ 83 Toluene-d8 (Surr)	10.0	9.68	96.76
$ 127 4-Bromofluorobenzene (Surr)	10.0	9.68	96.81

Report Date: 01-Feb-2023 09:08:12 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X06.D				
Injection Date:	31-Jan-2023 12:18:30	Instrument ID:	16334		
Lims ID:	410-113568-A-13	Lab Sample ID:	410-113568-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

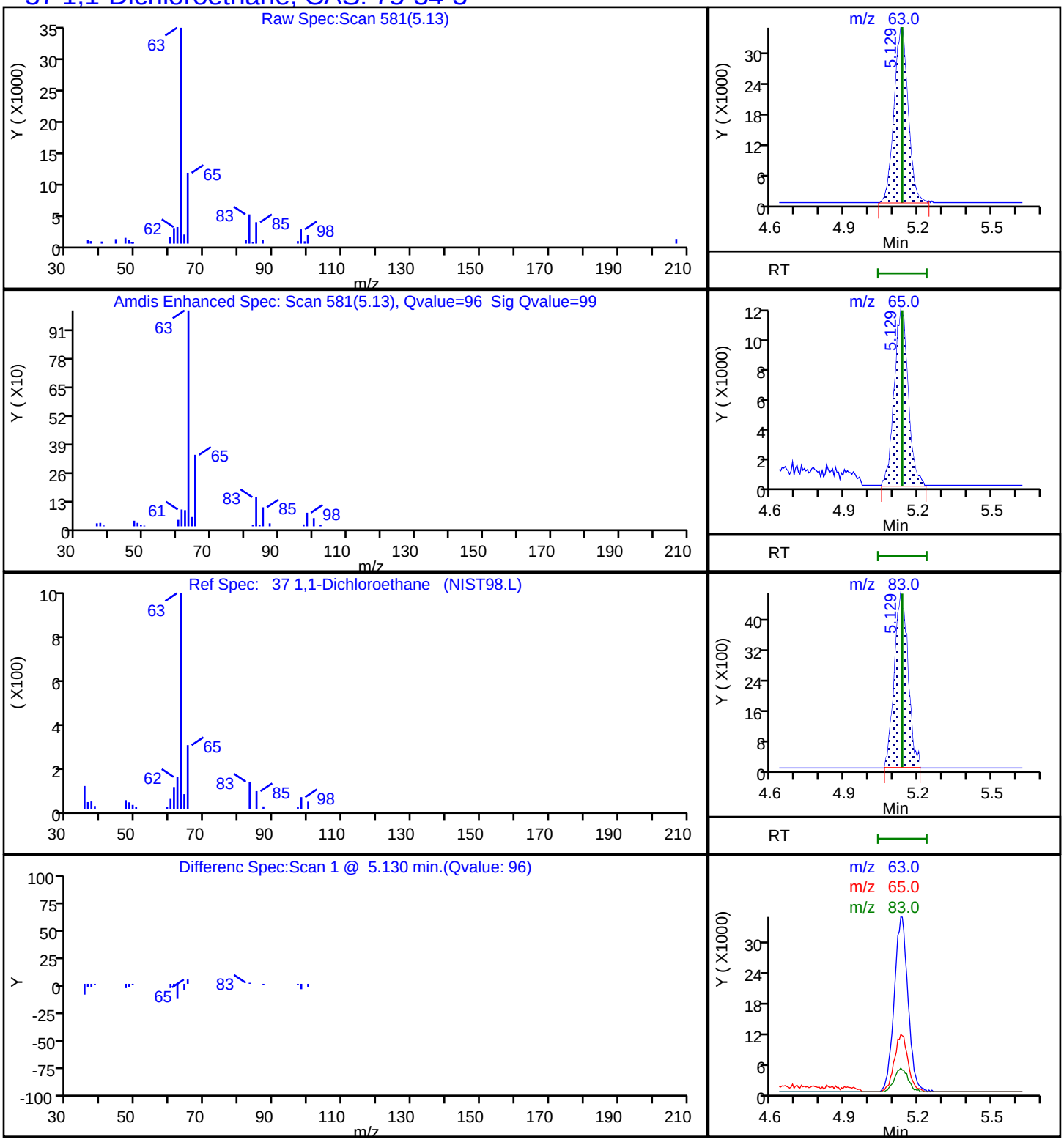
53 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X06.D				
Injection Date:	31-Jan-2023 12:18:30	Instrument ID:	16334		
Lims ID:	410-113568-A-13	Lab Sample ID:	410-113568-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

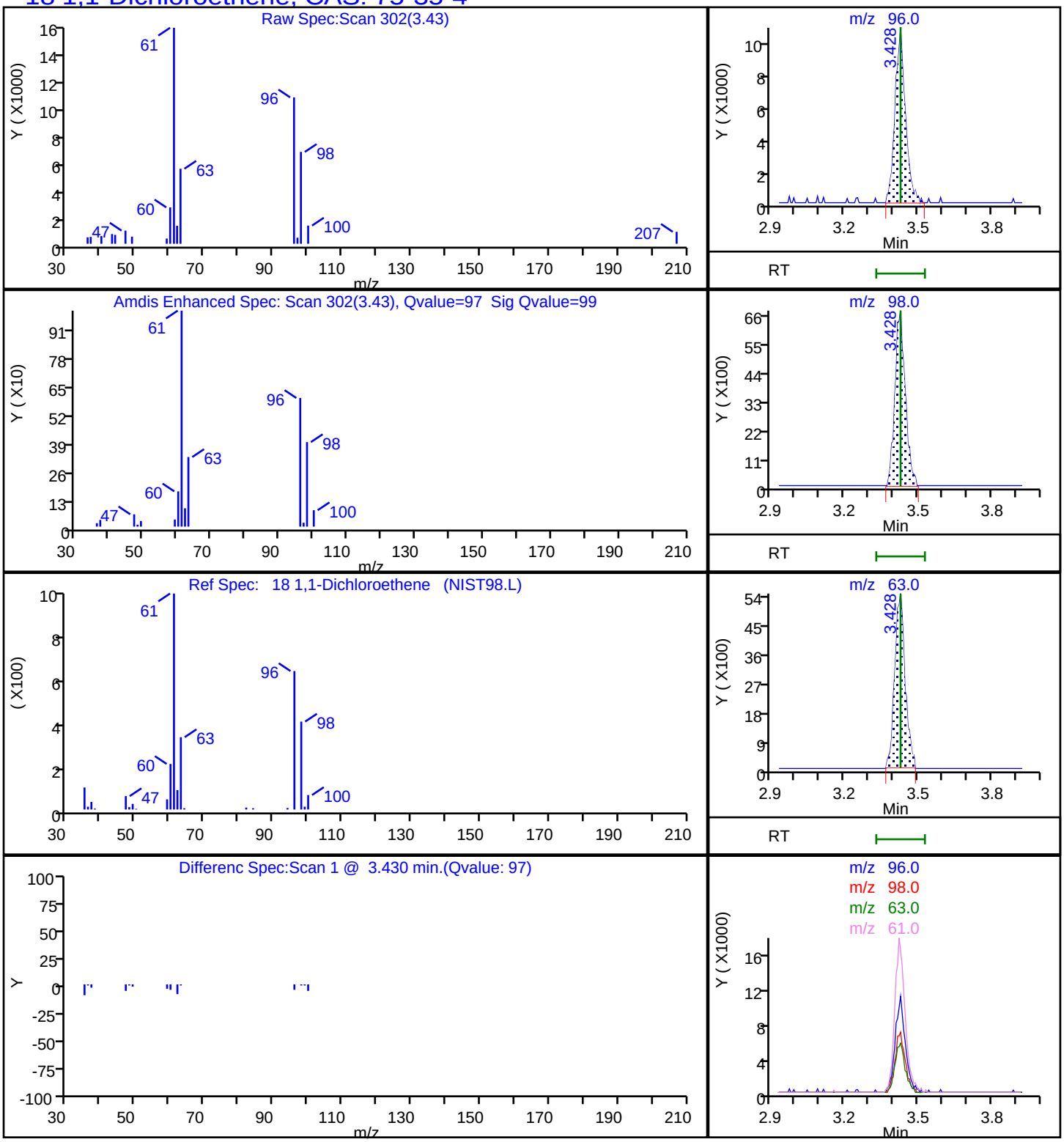
37 1,1-Dichloroethane, CAS: 75-34-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X06.D				
Injection Date:	31-Jan-2023 12:18:30	Instrument ID:	16334		
Lims ID:	410-113568-A-13	Lab Sample ID:	410-113568-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

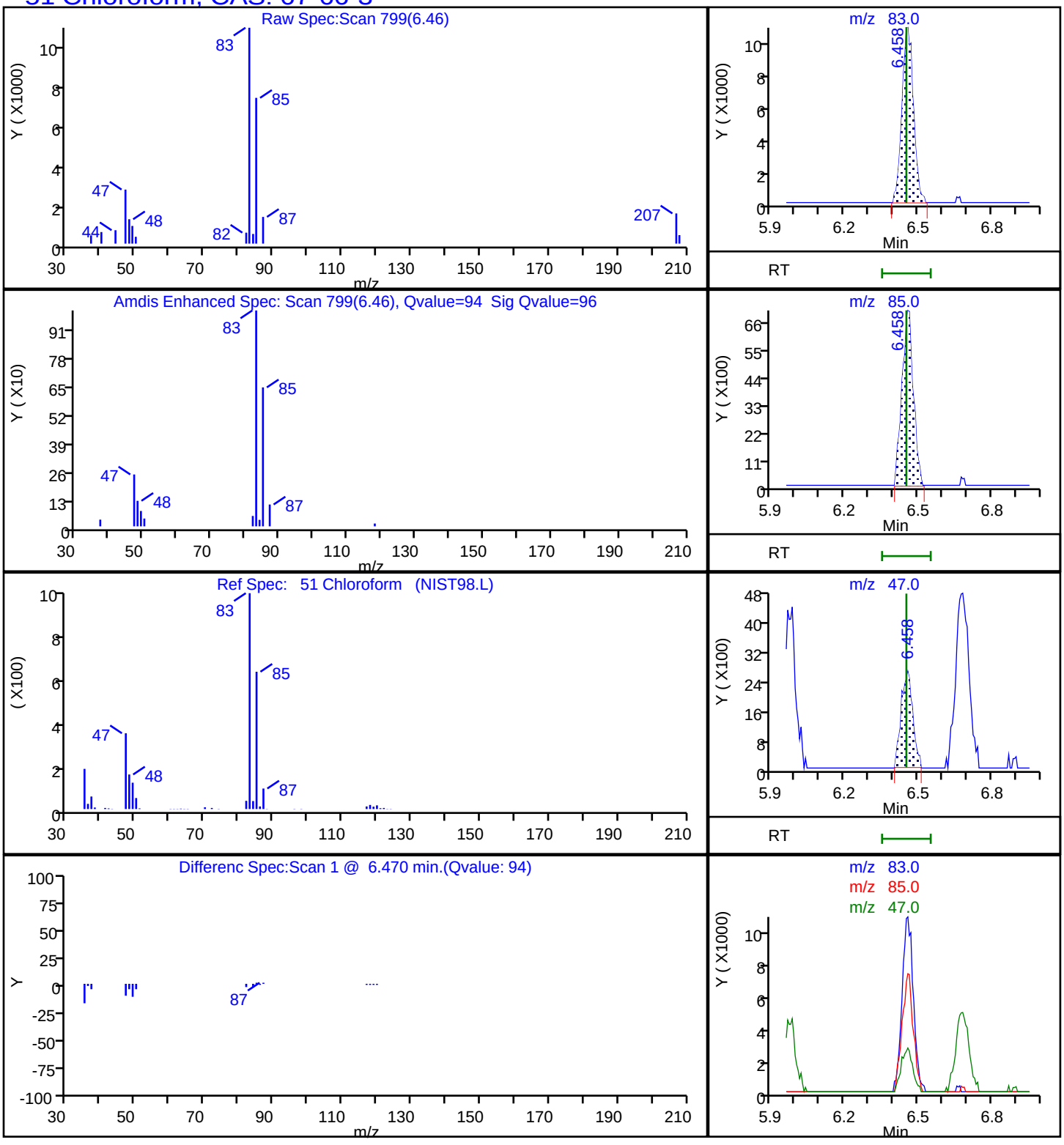
18 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X06.D				
Injection Date:	31-Jan-2023 12:18:30	Instrument ID:	16334		
Lims ID:	410-113568-A-13	Lab Sample ID:	410-113568-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

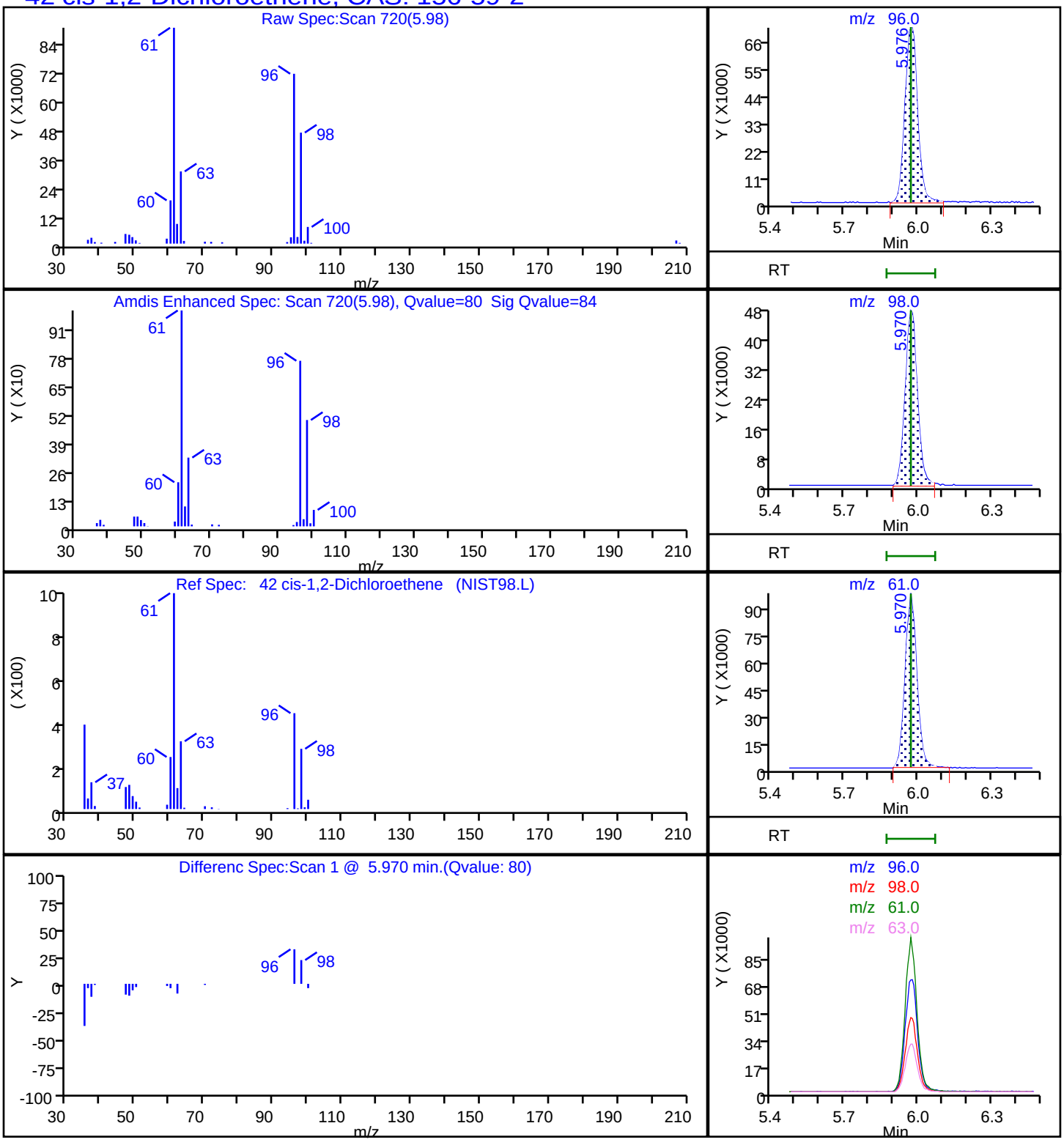
51 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X06.D
Injection Date: 31-Jan-2023 12:18:30 Instrument ID: 16334
Lims ID: 410-113568-A-13 Lab Sample ID: 410-113568-13
Client ID: HD-QC1-0/1-1
Operator ID: knk41612 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

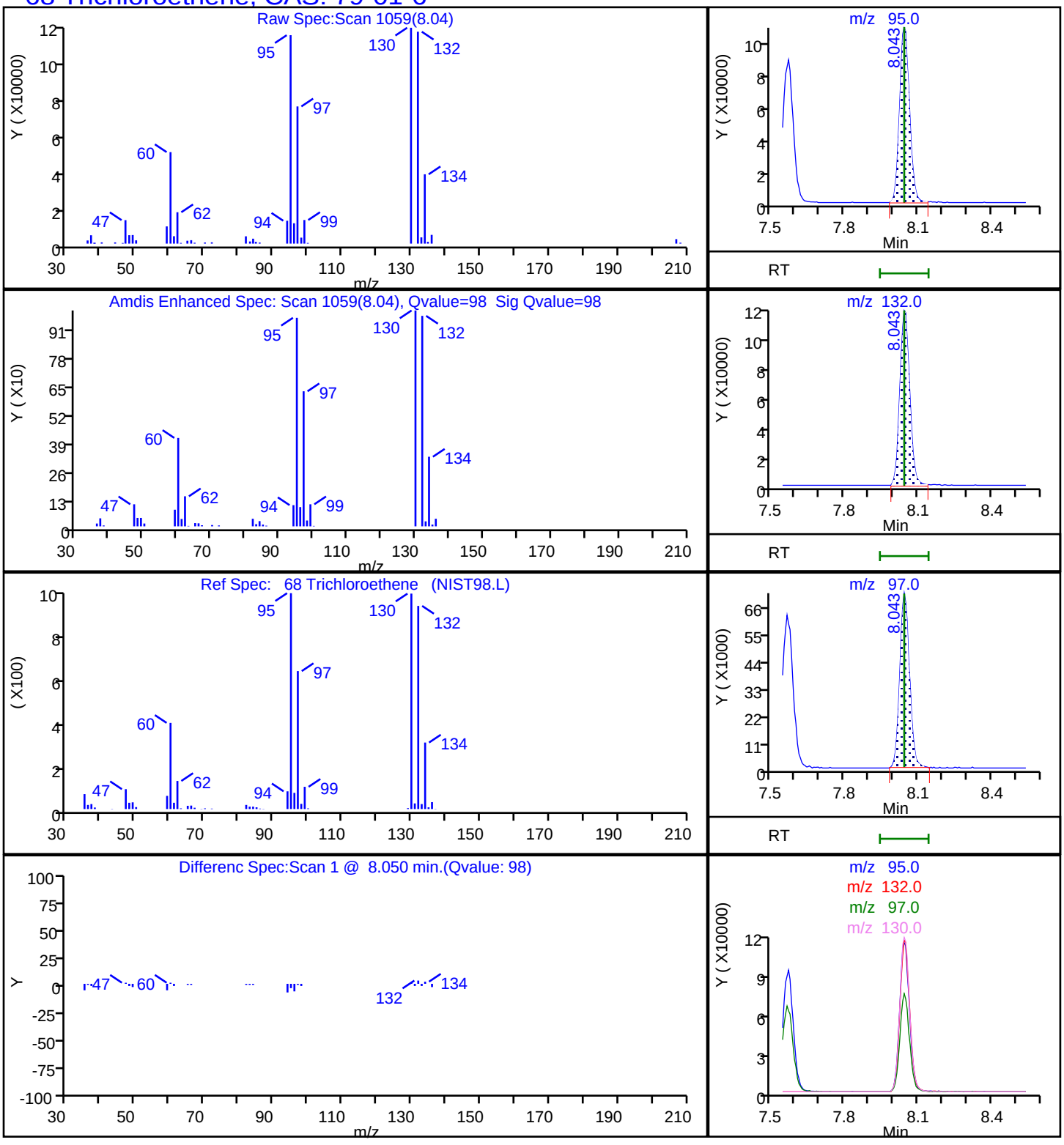
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X06.D		
Injection Date:	31-Jan-2023 12:18:30	Instrument ID:	16334
Lims ID:	410-113568-A-13	Lab Sample ID:	410-113568-13
Client ID:	HD-QC1-0/1-1		
Operator ID:	knk41612	ALS Bottle#:	6 Worklist Smp#: 7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad

68 Trichloroethene, CAS: 79-01-6



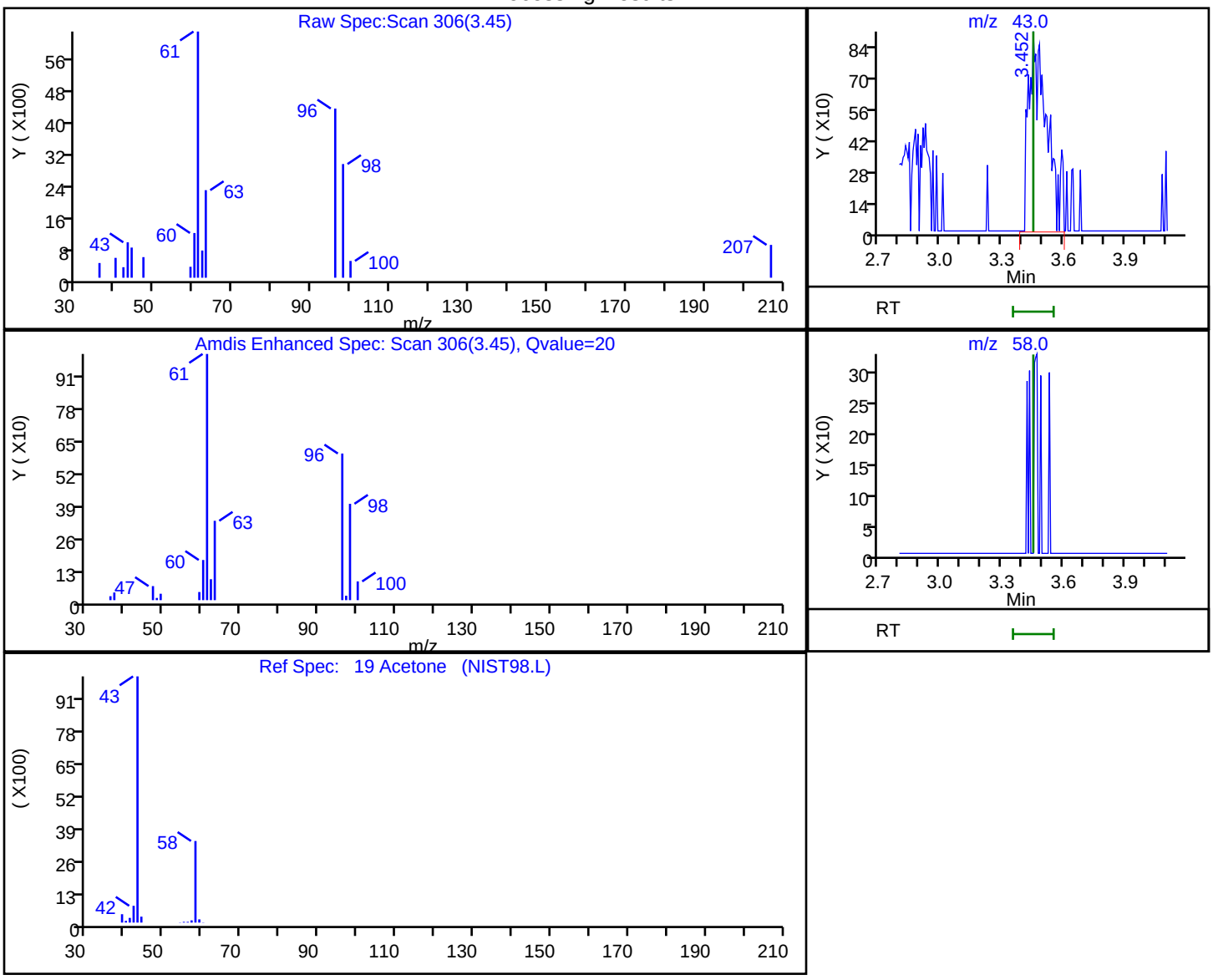
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X06.D				
Injection Date:	31-Jan-2023 12:18:30	Instrument ID:	16334		
Lims ID:	410-113568-A-13	Lab Sample ID:	410-113568-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

19 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.45	43.00	5641	0.491559
3.45	58.00	0	

Reviewer: kaewrungrueangp, 01-Feb-2023 09:07:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

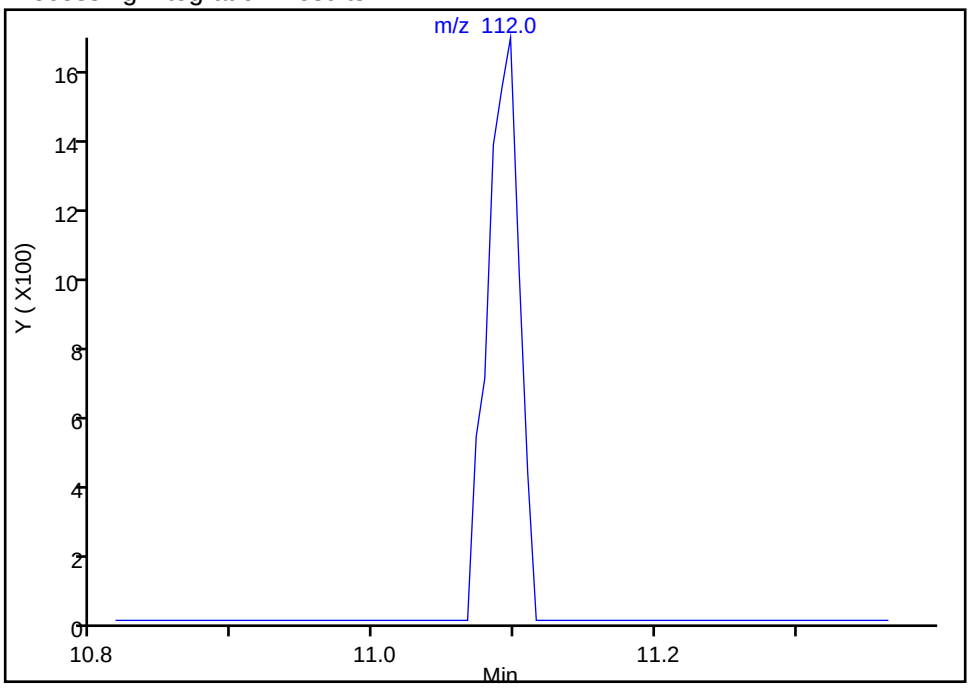
Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X06.D				
Injection Date:	31-Jan-2023 12:18:30	Instrument ID:	16334		
Lims ID:	410-113568-A-13	Lab Sample ID:	410-113568-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

116 Chlorobenzene, CAS: 108-90-7

Signal: 1

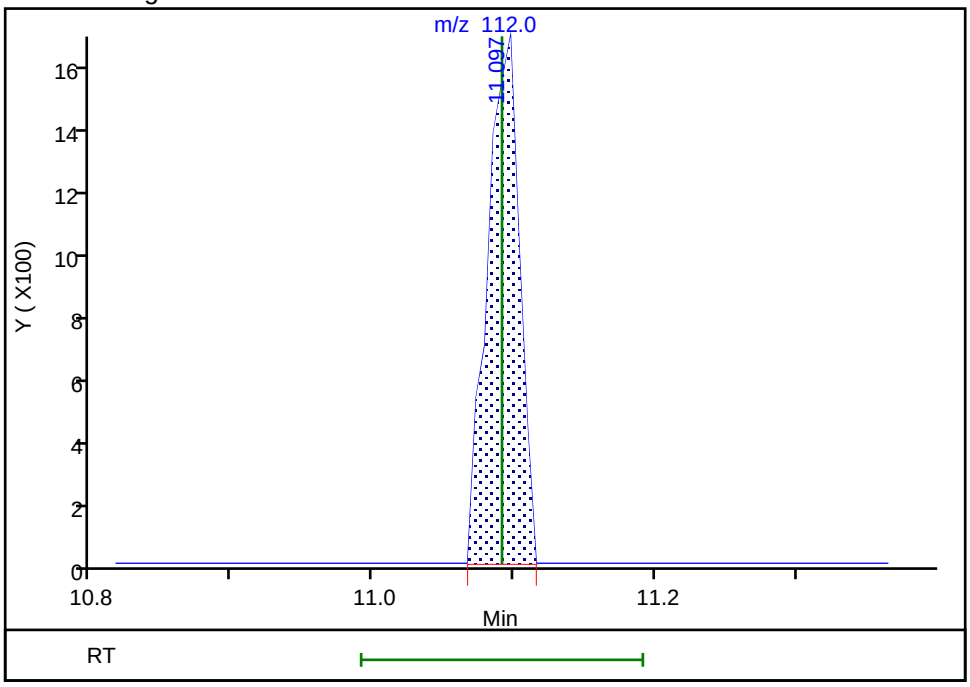
Not Detected
Expected RT: 11.09

Processing Integration Results



Manual Integration Results

RT: 11.10
Area: 2582
Amount: 0.010551
Amount Units: ug/l



Reviewer: kaewrungrueangp, 01-Feb-2023 09:08:05
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1 DL
Lab Sample ID: 410-113568-13 DL

Matrix: Water
Lab File ID: GF02X29.D

Analysis Method: 8260D
Date Collected: 01/25/2023 08:00

Sample wt/vol: 25(mL)
Date Analyzed: 02/02/2023 20:49

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.: 340956
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	65		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)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02X29.D
Lims ID: 410-113568-B-13
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 02-Feb-2023 20:49:30 ALS Bottle#: 29 Worklist Smp#: 30
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0076262-030
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230202-76262.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Feb-2023 10:22:46 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 03-Feb-2023 10:22:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.093				ND	
6 Vinyl chloride	62		2.202				ND	
9 Bromomethane	94		2.532				ND	7
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96	3.416	3.428	-0.012	90	4070	0.0613	
19 Acetone	43		3.458				ND	7
24 Carbon disulfide	76		3.714				ND	7
29 Methylene Chloride	84		4.068				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.092	4.074	0.018	21	200763	50.0	
33 Methyl tert-butyl ether	73		4.464				ND	
34 trans-1,2-Dichloroethene	96		4.470				ND	
37 1,1-Dichloroethane	63	5.147	5.135	0.012	94	12543	0.0943	M
41 2-Butanone (MEK)	43		5.933				ND	
42 cis-1,2-Dichloroethene	96	5.976	5.970	0.006	78	25219	0.3036	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83	6.464	6.458	0.006	85	3126	0.0234	7a
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.677	-0.006	94	687151	10.0	
53 1,1,1-Trichloroethane	97	6.677	6.677	0.000	97	54589	0.4742	
55 Carbon tetrachloride	117		6.891				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.122	7.128	-0.006	66	143635	10.1	
60 Benzene	78		7.159				ND	7
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.567	0.000	99	2852164	10.0	
68 Trichloroethene	95	8.043	8.043	0.000	96	27373	0.3282	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	
$ 83 Toluene-d8 (Surr)	98	9.591	9.591	0.000	94	2854980	9.83	
84 Toluene	92		9.671				ND	7
85 trans-1,3-Dichloropropene	75		9.933				ND	
107 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166	10.225	10.225	0.000	98	623906	6.48	
110 2-Hexanone	43		10.359				ND	
112 Chlorodibromomethane	129		10.518				ND	
113 Ethylene Dibromide	107		10.628				ND	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.061	0.007	86	2198280	10.0	
116 Chlorobenzene	112		11.091				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
118 Ethylbenzene	91		11.176				ND	
S 119 Xylenes, Total	106		11.245				ND	7
120 m-Xylene & p-Xylene	106		11.292				ND	
121 o-Xylene	106		11.621				ND	
122 Styrene	104		11.640				ND	7
123 Bromoform	173		11.792				ND	
$ 127 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	90	1071182	10.0	
128 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	1263916	10.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

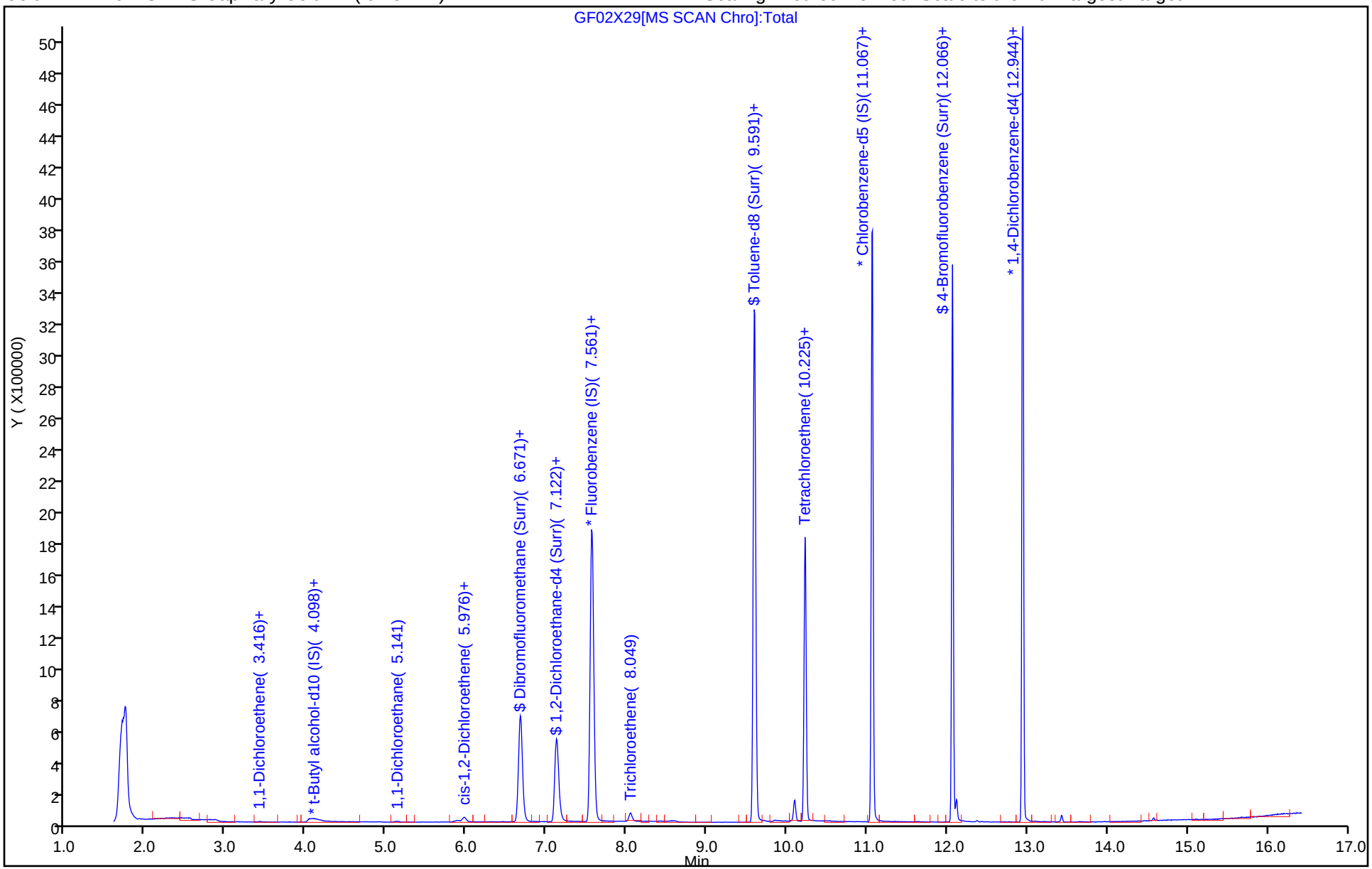
MSV_29_826ISS_00037 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 03-Feb-2023 10:22:47 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02X29.D				
Injection Date:	02-Feb-2023 20:49:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-113568-B-13	Lab Sample ID:	410-113568-13	Worklist Smp#:	30
Client ID:	HD-QC1-0/1-1				
Purge Vol:	25.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	29
Method:	MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02X29.D				
Lims ID:	410-113568-B-13				
Client ID:	HD-QC1-0/1-1				
Sample Type:	Client				
Inject. Date:	02-Feb-2023 20:49:30	ALS Bottle#:	29	Worklist Smp#:	30
Purge Vol:	25.000 mL	Dil. Factor:	10.0000		
Sample Info:	410-0076262-030				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230202-76262.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	03-Feb-2023 10:22:46	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1679				

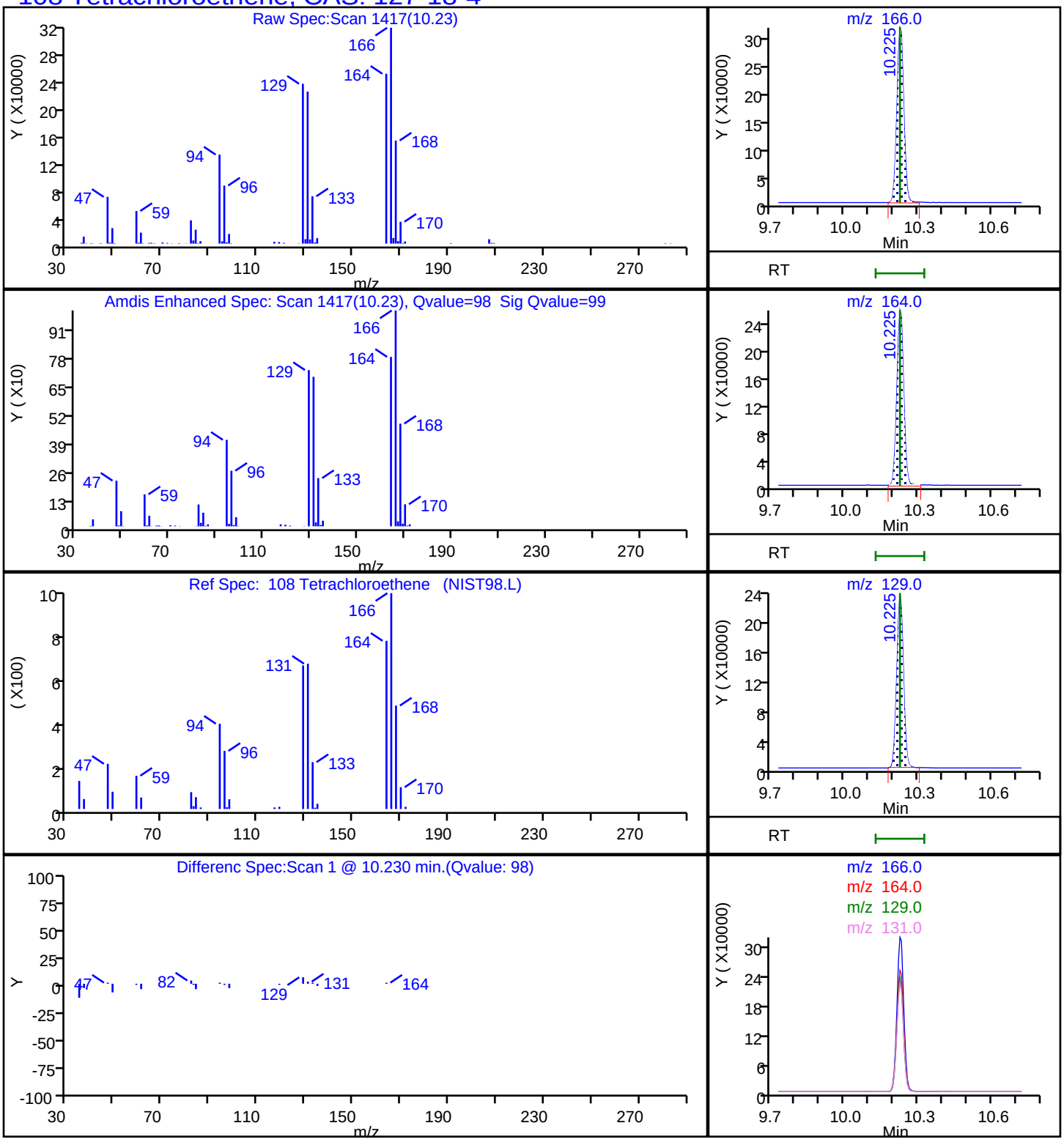
First Level Reviewer: innoonk Date: 03-Feb-2023 10:22:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.0	100.37
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	101.33
$ 83 Toluene-d8 (Surr)	10.0	9.83	98.29
$ 127 4-Bromofluorobenzene (Surr)	10.0	10.0	100.19

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02X29.D				
Injection Date:	02-Feb-2023 20:49:30	Instrument ID:	16334		
Lims ID:	410-113568-B-13	Lab Sample ID:	410-113568-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	29	Worklist Smp#:	30
Purge Vol:	25.000 mL	Dil. Factor:	10.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

108 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-113568-1

SDG No.:

Client Sample ID: HD-QC1-0/1-2 Lab Sample ID: 410-113568-14

Matrix: Water Lab File ID: GJ31X07.D

Analysis Method: 8260D Date Collected: 01/25/2023 00:00

Sample wt/vol: 25(mL) Date Analyzed: 01/31/2023 12:40

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.: 340101 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	1.6	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	^c cn	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 Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID: HD-QC1-0/1-2
Lab Sample ID: 410-113568-14

Matrix: Water
Lab File ID: GJ31X07.D

Analysis Method: 8260D
Date Collected: 01/25/2023 00:00

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 12:40

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.: 340101
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)	110		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X07.D
Lims ID: 410-113568-A-14
Client ID: HD-QC1-0/1-2
Sample Type: Client
Inject. Date: 31-Jan-2023 12:40:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076112-008
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Feb-2023 09:08:11 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1655

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:09:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.093				ND	7
6 Vinyl chloride	62		2.203				ND	
9 Bromomethane	94		2.532				ND	
10 Chloroethane	64		2.605				ND	
18 1,1-Dichloroethene	96		3.428				ND	
19 Acetone	43	3.464	3.452	0.012	99	25461	1.62	
24 Carbon disulfide	76		3.714				ND	7
29 Methylene Chloride	84		4.068				ND	7
* 30 t-Butyl alcohol-d10 (IS)	65	4.098	4.074	0.024	1	280431	50.0	
33 Methyl tert-butyl ether	73		4.464				ND	
34 trans-1,2-Dichloroethene	96		4.464				ND	
37 1,1-Dichloroethane	63		5.135				ND	
41 2-Butanone (MEK)	43		5.940				ND	
42 cis-1,2-Dichloroethene	96		5.970				ND	
49 Chlorobromomethane	128		6.299				ND	
51 Chloroform	83		6.452				ND	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	93	709123	10.3	
53 1,1,1-Trichloroethane	97		6.683				ND	
55 Carbon tetrachloride	117		6.897				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.122	0.006	18	156826	11.0	
60 Benzene	78		7.159				ND	7
61 1,2-Dichloroethane	62		7.226				ND	
* 64 Fluorobenzene (IS)	96	7.567	7.561	0.006	99	2862694	10.0	
68 Trichloroethene	95		8.043				ND	
70 1,2-Dichloropropane	63		8.378				ND	
76 Dichlorobromomethane	83		8.726				ND	
81 cis-1,3-Dichloropropene	75		9.280				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND	
$ 83 Toluene-d8 (Surr)	98	9.597	9.591	0.006	94	2852576	9.86	
84 Toluene	92	9.670	9.671	-0.001	98	7853	0.0385	
85 trans-1,3-Dichloropropene	75		9.933				ND	7
107 1,1,2-Trichloroethane	97		10.140				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
108 Tetrachloroethene	166		10.225				ND	7
110 2-Hexanone	43		10.359				ND	7
112 Chlorodibromomethane	129		10.518				ND	
113 Ethylene Dibromide	107		10.628				ND	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	86	2190331	10.0	
116 Chlorobenzene	112		11.091				ND	
117 1,1,1,2-Tetrachloroethane	131		11.176				ND	
118 Ethylbenzene	91		11.176				ND	7
S 119 Xylenes, Total	106		11.245				ND	7
120 m-Xylene & p-Xylene	106		11.292				ND	7
121 o-Xylene	106		11.621				ND	7
122 Styrene	104		11.640				ND	7
123 Bromoform	173		11.792				ND	
$ 127 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	91	1057108	9.92	
128 1,1,2,2-Tetrachloroethane	83		12.170				ND	
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	1263610	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_29_826ISS_00037 Amount Added: 1.00 Units: uL Run Reagent

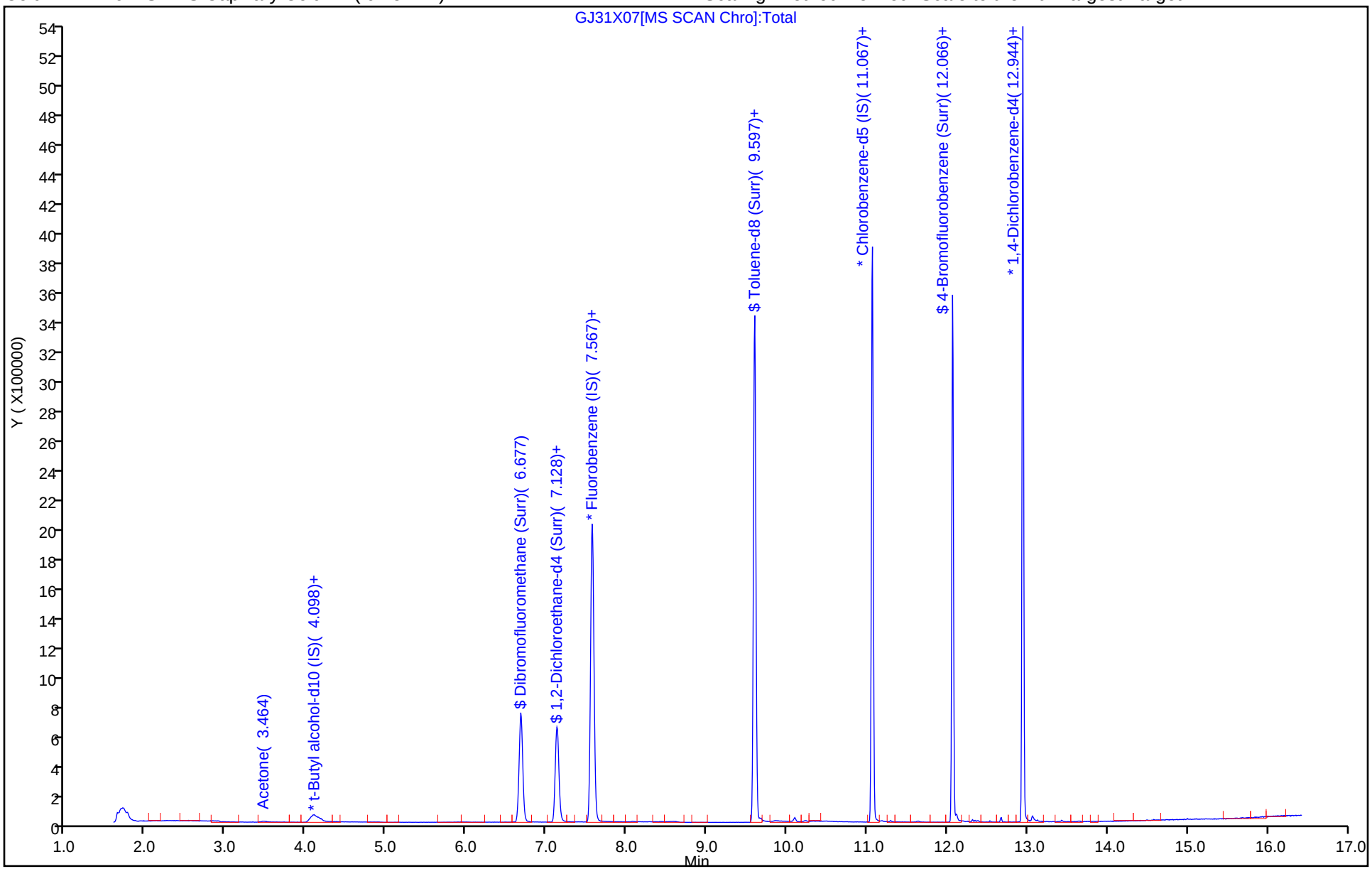
Report Date: 01-Feb-2023 09:09:00 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X07.D

Injection Date:	31-Jan-2023 12:40:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-113568-A-14	Lab Sample ID:	410-113568-14	Worklist Smp#:	8
Client ID:	HD-QC1-0/1-2				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X07.D				
Lims ID:	410-113568-A-14				
Client ID:	HD-QC1-0/1-2				
Sample Type:	Client				
Inject. Date:	31-Jan-2023 12:40:30	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0076112-008				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Feb-2023 09:08:11	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1655				

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:09:00

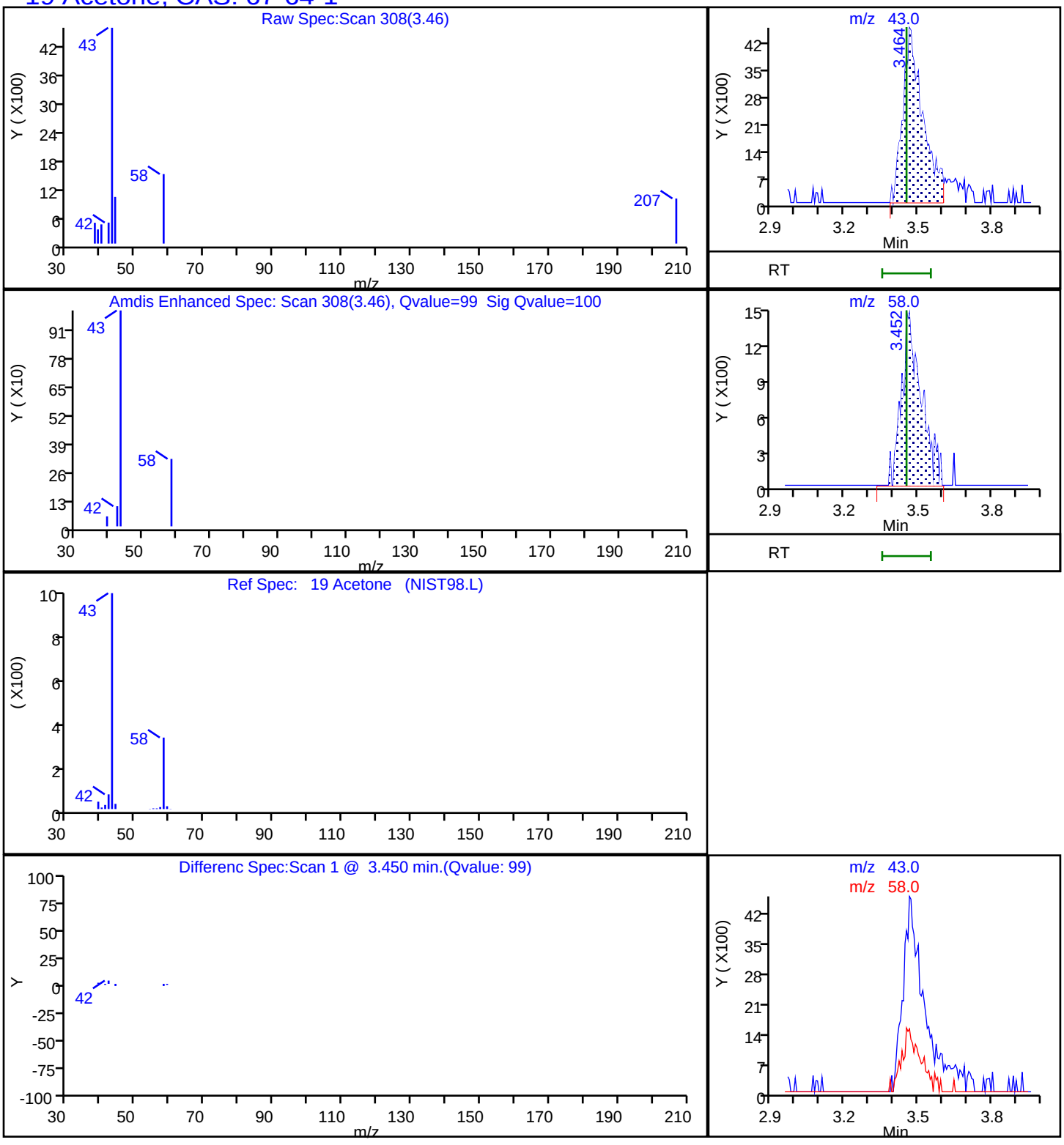
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	103.19
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	11.0	110.23
$ 83 Toluene-d8 (Surr)	10.0	9.86	98.56
$ 127 4-Bromofluorobenzene (Surr)	10.0	9.92	99.23

Report Date: 01-Feb-2023 09:09:00 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X07.D				
Injection Date:	31-Jan-2023 12:40:30	Instrument ID:	16334		
Lims ID:	410-113568-A-14	Lab Sample ID:	410-113568-14		
Client ID:	HD-QC1-0/1-2				
Operator ID:	knk41612	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

19 Acetone, CAS: 67-64-1



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-113568-1 Analy Batch No.: 336478

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2023 10:40 Calibration End Date: 01/18/2023 12:53 Calibration ID: 46382

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-336478/3	JD18X02.D
Level 2	IC 410-336478/4	JD18X03.D
Level 3	IC 410-336478/5	JD18X04.D
Level 4	IC 410-336478/6	JD18X05.D
Level 5	IC 410-336478/7	JD18X06.D
Level 6	ICIS 410-336478/8	JD18X07.D
Level 7	IC 410-336478/9	JD18X08.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.3866 0.2956	0.3497 0.2906	0.3702	0.3729	0.3166	Ave		0.3403			0.1000	11.5		20.0			
Chloromethane	0.4512 0.3517	0.4153 0.3400	0.4291	0.4087	0.3643	Ave		0.3943			0.1000	10.7		20.0			
Vinyl chloride	0.4249 0.3372	0.3901 0.3391	0.3951	0.3935	0.3479	Ave		0.3754			0.1000	9.0		20.0			
1,3-Butadiene	0.5119 0.2915	0.3631 0.2932	0.3606	0.3424	0.3119	Lin	0.0642	0.2903							1.0000		0.9900
Bromomethane	0.2760 0.2274	0.2595 0.2269	0.2619	0.2597	0.2245	Ave		0.2480			0.1000	8.5		20.0			
Chloroethane	0.2436 0.1942	0.2267 0.1924	0.2347	0.2204	0.1954	Ave		0.2154			0.1000	9.8		20.0			
Dichlorofluoromethane	0.5476 0.4539	0.5329 0.4529	0.5387	0.5179	0.4564	Ave		0.5000			0.1000	8.7		20.0			
Trichlorofluoromethane	0.5040 0.4222	0.4811 0.4350	0.5167	0.5046	0.4517	Ave		0.4736			0.1000	7.9		20.0			
Ethyl ether	0.2121 0.1865	0.2049 0.1899	0.2135	0.2136	0.1898	Ave		0.2015				6.1		20.0			
Freon 123a	0.3414 0.2686	0.3123 0.2750	0.3252	0.3108	0.2754	Ave		0.3012				9.4		20.0			
Acrolein	2.0635 2.3257	2.1186 2.2695	2.2856	2.4048	2.1255	Ave		2.2276				5.7		20.0			
1,1-Dichloroethene	0.2713 0.2116	0.2436 0.2115	0.2374	0.2362	0.2179	Ave		0.2328			0.1000	9.2		20.0			
Acetone	3.4798 2.4744	3.0446 2.3351	2.9794	2.8302	2.4499	Ave		2.7991			0.1000	14.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-113568-1 Analy Batch No.: 336478

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2023 10:40 Calibration End Date: 01/18/2023 12:53 Calibration ID: 46382

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	0.2351 0.2020	0.2317 0.2066	0.2353	0.2318	0.2198	Ave		0.2232			0.1000	6.3		20.0			
Methyl iodide	0.4072 0.3757	0.3999 0.3747	0.4047	0.4171	0.3776	Ave		0.3938				4.4		20.0			
Carbon disulfide	0.7399 0.6692	0.7126 0.6710	0.6949	0.7136	0.6626	Ave		0.6948			0.1000	4.1		20.0			
Methyl acetate	11.678 7.3697	10.427 7.1793	8.2778	8.1879	6.9716	Lin	1.1962	7.1366			0.1000				1.0000		0.9900
Allyl chloride	+++++ 0.3489	0.3755 0.3513	0.3723	0.3669	0.3434	Ave		0.3597				3.8		20.0			
Methylene Chloride	0.2776 0.2435	0.2732 0.2391	0.2672	0.2726	0.2405	Ave		0.2591			0.1000	6.7		20.0			
t-Butyl alcohol	1.3901 0.8861	1.3138 0.8394	1.1154	1.0813	0.9206	Ave		1.0781				19.8		20.0			
Acrylonitrile	4.0149 3.7396	3.7014 3.7412	4.2217	4.1270	3.5221	Ave		3.8668				6.6		20.0			
Methyl tert-butyl ether	0.6223 0.6209	0.6312 0.6104	0.6591	0.6670	0.6087	Ave		0.6314			0.1000	3.6		20.0			
trans-1,2-Dichloroethene	0.2741 0.2491	0.2754 0.2475	0.2710	0.2785	0.2487	Ave		0.2635			0.1000	5.4		20.0			
n-Hexane	0.3507 0.3082	0.3337 0.3168	0.3406	0.3534	0.3373	Ave		0.3344				5.0		20.0			
1,1-Dichloroethane	0.4879 0.4448	0.4728 0.4411	0.4872	0.4892	0.4425	Ave		0.4665			0.2000	4.9		20.0			
di-Isopropyl ether	0.7985 0.7949	0.8016 0.7887	0.8274	0.8584	0.7822	Ave		0.8074				3.3		20.0			
2-Chloro-1,3-butadiene	0.3600 0.3483	0.3561 0.3560	0.3620	0.3673	0.3482	Ave		0.3568				2.0		20.0			
Ethyl t-butyl ether	0.7388 0.7477	0.7473 0.7483	0.7711	0.8051	0.7314	Ave		0.7557				3.3		20.0			
2-Butanone (MEK)	5.8239 5.2584	5.5638 4.9981	5.8598	5.8293	5.0977	Ave		5.4902			0.1000	6.7		20.0			
cis-1,2-Dichloroethene	0.3084 0.2750	0.3077 0.2726	0.2956	0.3059	0.2733	Ave		0.2912			0.1000	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.: 410-113568-1 Analy Batch No.: 336478

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2023 10:40 Calibration End Date: 01/18/2023 12:53 Calibration ID: 46382

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2,2-Dichloropropane	0.3958 0.3666	0.3921 0.3656	0.3982	0.3943	0.3665	Ave		0.3827				4.1		20.0			
Propionitrile	1.3335 1.2546	1.3674 1.2242	1.3623	1.3994	1.2596	Ave		1.3144				5.1		20.0			
Methacrylonitrile	5.4291 5.5798	5.3888 5.3228	5.8803	6.2357	5.4085	Ave		5.6064				6.0		20.0			
Bromochloromethane	0.1322 0.1240	0.1249 0.1229	0.1322	0.1353	0.1232	Ave		0.1278				4.1		20.0			
Tetrahydrofuran	1.5907 1.5270	1.4536 1.4080	1.6372	1.7155	1.5164	Ave		1.5498				6.9		20.0			
Chloroform	0.4837 0.4488	0.4731 0.4468	0.4867	0.4944	0.4460	Ave		0.4685			0.2000	4.5		20.0			
1,1,1-Trichloroethane	0.4302 0.3789	0.4192 0.3812	0.4213	0.4157	0.3790	Ave		0.4036			0.1000	5.7		20.0			
Cyclohexane	0.4325 0.3817	0.4122 0.3936	0.4181	0.4301	0.4080	Ave		0.4109			0.1000	4.5		20.0			
Carbon tetrachloride	0.3680 0.3365	0.3642 0.3436	0.3645	0.3676	0.3408	Ave		0.3550			0.1000	3.9		20.0			
1,1-Dichloropropene	0.3680 0.3425	0.3629 0.3459	0.3698	0.3725	0.3460	Ave		0.3582				3.6		20.0			
Isobutyl alcohol	0.0046 0.0037	0.0044 0.0036	0.0043	0.0038	0.0040	Ave		0.0041				9.7		20.0			
Benzene	1.1558 1.0311	1.1137 1.0150	1.1160	1.1272	1.0212	Ave		1.0829			0.5000	5.4		20.0			
1,2-Dichloroethane	0.3345 0.2873	0.3136 0.2799	0.3090	0.3221	0.2859	Ave		0.3046			0.1000	6.8		20.0			
t-Amyl methyl ether	0.6772 0.6914	0.6783 0.6895	0.7044	0.7367	0.6672	Ave		0.6921				3.3		20.0			
n-Heptane	0.4326 0.3372	0.3701 0.3478	0.3933	0.3993	0.3720	Ave		0.3789				8.6		20.0			
n-Butanol	0.2643 0.2983	0.2924 0.2988	0.3055	0.3287	0.2939	Ave		0.2974				6.4		20.0			
Trichloroethene	0.3159 0.2769	0.3025 0.2751	0.2963	0.3048	0.2757	Ave		0.2925			0.2000	5.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-113568-1 Analy Batch No.: 336478

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2023 10:40 Calibration End Date: 01/18/2023 12:53 Calibration ID: 46382

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	0.4768 0.4186	0.4398 0.4330	0.4473	0.4708	0.4485	Ave		0.4478			0.1000	4.6		20.0			
1,2-Dichloropropane	0.2881 0.2713	0.2863 0.2714	0.2933	0.2951	0.2671	Ave		0.2818			0.1000	4.1		20.0			
Methyl methacrylate	9.8182 10.856	9.6566 11.426	11.176	11.207	10.396	Ave		10.648				6.6		20.0			
1,4-Dioxane	0.0326 0.0550	0.0541 0.0583	0.0663	0.0757	0.0603	Lin1	-0.050	0.0588			0.0050				0.9930		0.9900
Dibromomethane	0.1383 0.1313	0.1360 0.1279	0.1428	0.1435	0.1278	Ave		0.1354				4.9		20.0			
Bromodichloromethane	0.3385 0.3312	0.3323 0.3339	0.3424	0.3561	0.3274	Ave		0.3374			0.2000	2.8		20.0			
2-Nitropropane	3.5707 3.0458	2.9783 2.9200	3.2200	3.3986	2.9454	Ave		3.1541				8.0		20.0			
cis-1,3-Dichloropropene	0.4012 0.4261	0.3963 0.4249	0.4163	0.4395	0.4124	Ave		0.4167			0.2000	3.6		20.0			
4-Methyl-2-pentanone (MIBK)	13.655 15.231	14.211 14.447	15.754	16.640	14.681	Ave		14.945			0.1000	6.8		20.0			
Toluene	0.9584 0.8900	0.9615 0.8878	0.9620	0.9683	0.8843	Ave		0.9303			0.4000	4.3		20.0			
trans-1,3-Dichloropropene	0.4615 0.4856	0.4660 0.4907	0.4893	0.5066	0.4717	Ave		0.4816			0.1000	3.3		20.0			
Ethyl methacrylate	0.2991 0.3682	0.3138 0.3798	0.3228	0.3590	0.3450	Ave		0.3411				8.8		20.0			
1,1,2-Trichloroethane	0.2850 0.2564	0.2933 0.2517	0.2881	0.2785	0.2546	Ave		0.2725			0.1000	6.5		20.0			
Tetrachloroethene	0.4619 0.4156	0.4377 0.4133	0.4572	0.4571	0.4210	Ave		0.4377			0.2000	4.9		20.0			
1,3-Dichloropropane	0.4432 0.4396	0.4659 0.4377	0.4765	0.4762	0.4356	Ave		0.4535				4.1		20.0			
2-Hexanone	9.5374 11.110	9.6947 10.614	11.166	12.151	10.639	Ave		10.702			0.1000	8.4		20.0			
Dibromochloromethane	0.3035 0.3269	0.3079 0.3311	0.3281	0.3410	0.3171	Ave		0.3222				4.1		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.: 410-113568-1 Analy Batch No.: 336478

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2023 10:40 Calibration End Date: 01/18/2023 12:53 Calibration ID: 46382

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)	0.2508 0.2450	0.2522 0.2450	0.2591	0.2634	0.2436	Ave		0.2513			0.1000	3.0		20.0			
1-Chlorohexane	0.5942 0.4959	0.5446 0.5029	0.5269	0.5402	0.5014	Ave		0.5295				6.5		20.0			
Chlorobenzene	1.1697 1.0465	1.1111 1.0301	1.1373	1.1489	1.0523	Ave		1.0994			0.5000	5.1		20.0			
1,1,1,2-Tetrachloroethane	0.3733 0.3599	0.3617 0.3646	0.3694	0.3806	0.3528	Ave		0.3661				2.5		20.0			
Ethylbenzene	1.7819 1.7666	1.7931 1.7581	1.8428	1.8855	1.7545	Ave		1.7975			0.1000	2.7		20.0			
m&p-Xylene	0.6787 0.6860	0.6944 0.6876	0.7125	0.7237	0.6821	Ave		0.6950			0.1000	2.4		20.0			
o-Xylene	0.6355 0.6688	0.6607 0.6767	0.6903	0.7123	0.6655	Ave		0.6728			0.3000	3.6		20.0			
Styrene	0.9524 1.1371	1.0274 1.1539	1.0651	1.1447	1.0847	Ave		1.0808			0.3000	6.8		20.0			
Bromoform	0.1842 0.2019	0.1858 0.2114	0.1935	0.2080	0.1943	Ave		0.1970			0.1000	5.3		20.0			
Isopropylbenzene	1.6807 1.7304	1.7191 1.7250	1.7842	1.8236	1.7195	Ave		1.7404			0.1000	2.7		20.0			
1,1,2,2-Tetrachloroethane	0.5866 0.5817	0.6041 0.5655	0.6186	0.6387	0.5702	Ave		0.5951			0.3000	4.5		20.0			
Bromobenzene	0.8173 0.7476	0.7828 0.7334	0.7911	0.8232	0.7368	Ave		0.7760				4.8		20.0			
trans-1,4-Dichloro-2-butene	5.6271 6.1354	5.5002 6.1372	6.1725	6.6746	5.8741	Ave		6.0173				6.5		20.0			
1,2,3-Trichloropropane	0.1649 0.1499	0.1592 0.1464	0.1605	0.1658	0.1490	Ave		0.1565				5.1		20.0			
N-Propylbenzene	3.7678 3.6059	3.7341 3.4362	3.8785	3.9506	3.5784	Ave		3.7074				4.8		20.0			
2-Chlorotoluene	0.7781 0.7416	0.7504 0.7238	0.7789	0.8003	0.7270	Ave		0.7572				3.8		20.0			
1,3,5-Trimethylbenzene	2.5073 2.6123	2.6033 2.5656	2.6800	2.8127	2.5609	Ave		2.6203				3.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-113568-1 Analy Batch No.: 336478

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2023 10:40 Calibration End Date: 01/18/2023 12:53 Calibration ID: 46382

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	0.7815 0.7720	0.7898 0.7543	0.8191	0.8602	0.7667	Ave		0.7919				4.6		20.0			
tert-Butylbenzene	0.6035 0.5489	0.5500 0.5614	0.5649	0.6489	0.5491	Ave		0.5752				6.6		20.0			
Pentachloroethane	0.4393 0.4778	0.4701 0.4907	0.4901	0.5072	0.4683	Ave		0.4776				4.5		20.0			
1,2,4-Trimethylbenzene	2.5969 2.7322	2.6088 2.6993	2.7864	2.9257	2.6698	Ave		2.7170				4.2		20.0			
sec-Butylbenzene	3.3519 3.3279	3.2734 3.2099	3.4612	3.5417	3.2845	Ave		3.3501				3.4		20.0			
1,3-Dichlorobenzene	1.6731 1.5501	1.6268 1.5217	1.6429	1.7099	1.5222	Ave		1.6067			0.6000	4.7		20.0			
p-Isopropyltoluene	2.8590 2.9783	2.8635 2.9324	2.9994	3.1143	2.9482	Ave		2.9564				3.0		20.0			
1,4-Dichlorobenzene	1.6739 1.5175	1.6584 1.4956	1.6433	1.6652	1.5090	Ave		1.5947			0.5000	5.2		20.0			
1,2,3-Trimethylbenzene	1.2599 1.2105	1.2555 1.2178	1.2895	1.3216	1.2012	Ave		1.2508				3.5		20.0			
Benzyl chloride	0.1969 0.2448	0.2132 0.2493	0.2356	0.2465	0.2344	Ave		0.2315				8.4		20.0			
n-Butylbenzene	1.4969 1.5131	1.5201 1.4968	1.5881	1.6210	1.5076	Ave		1.5348				3.2		20.0			
1,2-Dichlorobenzene	1.5044 1.4593	1.5357 1.4284	1.5571	1.5887	1.4298	Ave		1.5005			0.4000	4.2		20.0			
1,2-Dibromo-3-Chloropropane	0.0682 0.0816	0.0808 0.0835	0.0840	0.0865	0.0792	Ave		0.0806			0.0500	7.4		20.0			
1,3,5-Trichlorobenzene	1.3477 1.2634	1.3371 1.2255	1.3407	1.3612	1.2462	Ave		1.3031				4.3		20.0			
1,2,4-Trichlorobenzene	1.1634 1.1105	1.1452 1.0902	1.1636	1.1979	1.1007	Ave		1.1388			0.2000	3.5		20.0			
Hexachlorobutadiene	0.6198 0.5690	0.5714 0.5485	0.6102	0.6146	0.5603	Ave		0.5848				5.0		20.0			
Naphthalene	1.7332 1.8817	1.8345 1.8474	1.8944	1.9704	1.8651	Ave		1.8610				3.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-113568-1 Analy Batch No.: 336478

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2023 10:40 Calibration End Date: 01/18/2023 12:53 Calibration ID: 46382

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	0.9469 0.9684	1.0453 0.9426	1.0047	1.0496	0.9684	Ave		0.9894				4.5		20.0			
Dibromofluoromethane (Surr)	0.2379 0.2397	0.2415 0.2417	0.2402	0.2406	0.2387	Ave		0.2400				0.6		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0494 0.0490	0.0505 0.0492	0.0508	0.0496	0.0494	Ave		0.0497				1.4		20.0			
Toluene-d8 (Surr)	1.3075 1.3171	1.3266 1.3290	1.3289	1.3103	1.3303	Ave		1.3214				0.7		20.0			
4-Bromofluorobenzene (Surr)	0.4761 0.4889	0.4855 0.4921	0.4865	0.4848	0.4906	Ave		0.4864				1.1		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-113568-1 Analy Batch No.: 336478

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2023 10:40 Calibration End Date: 01/18/2023 12:53 Calibration ID: 46382

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-336478/3	JD18X02.D
Level 2	IC 410-336478/4	JD18X03.D
Level 3	IC 410-336478/5	JD18X04.D
Level 4	IC 410-336478/6	JD18X05.D
Level 5	IC 410-336478/7	JD18X06.D
Level 6	ICIS 410-336478/8	JD18X07.D
Level 7	IC 410-336478/9	JD18X08.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	22216 928789	51596 2328426	107746	220877	492978	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	25931 1104890	61268 2724111	124906	242087	567277	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	24416 1059264	57561 2716946	115007	233091	541747	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Lin	29417 915751	53574 2349520	104974	202832	485767	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	15860 714465	38283 1818283	76234	153865	349572	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	14001 610002	33447 1542058	68317	130592	304320	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	31472 1426101	78629 3628895	156798	306786	710714	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	28962 1326329	70985 3485405	150391	298947	703443	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	12190 585970	30233 1521425	62149	126520	295632	0.200 10.00	0.500 25.0	1.000	2.00	5.00
Freon 123a	FB	Ave	19618 843985	46072 2203378	94647	184122	428915	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd 10	Ave	66838 4184754	184909 10555358	372877	794880	1936056	10.00 500	25.0 1250	50.0	100.0	250
1,1-Dichloroethene	FB	Ave	15589 664696	35943 1694490	69113	139919	339280	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAd 10	Ave	22545	53151	97219	187114	446349	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 Envirc Job No.: 410-113568-1 Analy Batch No.: 336478

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2023 10:40 Calibration End Date: 01/18/2023 12:53 Calibration ID: 46382

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
			890560	2172350				100	250			
Freon 113	FB	Ave	13513 634536	34178 1655322	68494	137297	342264	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl iodide	FB	Ave	23402 1180362	59000 3002136	117793	247090	588101	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon disulfide	FB	Ave	42523 2102361	105138 5376366	202262	422722	1031921	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd 10	Lin	7566 265243	18202 667890	27011	54133	127013	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	+++++ 1096059	55395 2814606	108372	217350	534815	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	15956 764843	40310 1916015	77782	161514	374477	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd 10	Ave	18012 637800	45870 1561867	72794	142972	335451	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd 10	Ave	6503 336482	16154 870094	34439	68212	160418	0.500 25.0	1.25 62.5	2.50	5.00	12.5
Methyl tert-butyl ether	FB	Ave	35764 1950668	93125 4891435	191848	395144	947975	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	15754 782485	40626 1983582	78877	164963	387312	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	20152 968104	49229 2538771	99134	209328	525235	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	28037 1397433	69754 3534728	141810	289797	689108	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	45886 2497297	118273 6319633	240835	508508	1218042	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	20686 1094221	52544 2852406	105358	217576	542271	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	42457 2349146	110259 5996413	224460	476946	1138925	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone (MEK)	TBAd 10	Ave	37732	97130	191210	385396	928742	2.00	5.00	10.0	20.0	50.0

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-113568-1 Analy Batch No.: 336478

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2023 10:40 Calibration End Date: 01/18/2023 12:53 Calibration ID: 46382

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
			1892550	4649731				100	250			
cis-1,2-Dichloroethene	FB	Ave	17725 863838	45403 2184508	86031	181204	425575	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	22744 1151782	57847 2929270	115912	233568	570810	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Propionitrile	TBAd 10	Ave	17279 903110	47744 2277688	88907	185043	458950	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd 10	Ave	35174 2008227	94074 4951789	191879	412262	985352	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	7595 389661	18428 984525	38483	80173	191906	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd 10	Ave	5153 274792	12688 654907	26711	56710	138138	1.00 50.0	2.50 125	5.00	10.0	25.0
Chloroform	FB	Ave	27799 1409810	69801 3579889	141660	292882	694546	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	24723 1190370	61855 3054460	122629	246233	590221	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	24855 1199080	60823 3153687	121701	254807	635393	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	21151 1057293	53736 2753293	106091	217747	530778	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	21151 1075923	53545 2771459	107639	220653	538796	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	FB	Ave	13343 583006	32562 1445035	62319	112401	308121	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	66420 3239328	164322 8133583	324854	667765	1590224	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	19222 902673	46274 2243219	89947	190832	445179	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	38916 2172263	100080 5524666	205030	436415	1039072	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	24862 1059204	54610 2787086	114488	236568	579290	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-113568-1 Analy Batch No.: 336478

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2023 10:40 Calibration End Date: 01/18/2023 12:53 Calibration ID: 46382

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
n-Butanol	TBAd 10	Ave	14984 939274	44659 2432511	87212	190144	468536	17.5 875	43.8 2188	87.5	175	438
Trichloroethene	FB	Ave	18153 870050	44632 2204209	86251	180542	429410	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	27400 1314974	64891 3469551	130189	278872	698415	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	16554 852342	42238 2174727	85362	174800	416009	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl methacrylate	TBAd 10	Ave	6361 390710	16858 1062945	36468	74095	189399	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBAd 10	Lin1	1056 98968	4723 271238	10823	25029	54969	10.0 500	25.0 1250	50.0	100	250
Dibromomethane	FB	Ave	7949 412624	20069 1024527	41574	84985	199062	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromodichloromethane	FB	Ave	19451 1040662	49023 2675209	99663	210928	509901	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBAd 10	Ave	11567 548096	25997 1358222	52535	112346	268306	1.00 50.0	2.50 125	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	23059 1338662	58465 3404390	121165	260329	642179	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone (MIBK)	TBAd 10	Ave	88468 5481647	248084 13439758	514076	1100101	2674664	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd 5	Ave	41896 2119529	107220 5392577	211976	438839	1038792	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd 5	Ave	20174 1156533	51967 2980473	107819	229601	554122	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd 5	Ave	13073 876796	34988 2306647	71136	162674	405252	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-113568-1 Analy Batch No.: 336478

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2023 10:40 Calibration End Date: 01/18/2023 12:53 Calibration ID: 46382

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,1,2-Trichloroethane	CBZd 5	Ave	12458 610558	32709 1528658	63481	126216	299081	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd 5	Ave	20191 989722	48808 2510315	100740	207130	494504	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd 5	Ave	19373 1047034	51959 2658311	104991	215829	511640	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBAd 10	Ave	61791 3998743	169245 9874078	364345	803335	1938276	2.00 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd 5	Ave	13267 778642	34334 2011183	72293	154532	372477	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane (EDB)	CBZd 5	Ave	10961 583506	28122 1488141	57095	119382	286095	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd 5	Ave	25975 1181111	60736 3054692	116109	244829	588943	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chlorobenzene	CBZd 5	Ave	51132 2492329	123905 6256974	250602	520667	1236075	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd 5	Ave	16320 857193	40330 2214704	81409	172495	414464	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd 5	Ave	77893 4207251	199954 10678380	406069	854467	2061016	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd 5	Ave	59332 3267447	154879 8352945	314022	655927	1602419	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd 5	Ave	27781 1592922	73683 4110233	152111	322799	781753	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-113568-1 Analy Batch No.: 336478

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2023 10:40 Calibration End Date: 01/18/2023 12:53 Calibration ID: 46382

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
Styrene	CBZd 5	Ave	41632 2708231	114568 7008678	234705	518763	1274139	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd 5	Ave	8050 480944	20714 1283779	42633	94258	228297	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd 5	Ave	73468 4121127	191707 10477753	393155	826429	2019868	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	14931 814594	39694 2066729	79841	168520	396881	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd 4	Ave	20805 1046968	51433 2679969	102105	217210	512831	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	TBAd 10	Ave	36457 2208197	96020 5709433	201413	441279	1070186	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	4197 209905	10463 534930	20717	43759	103706	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd 4	Ave	95907 5049602	245344 12557283	500611	1042385	2490507	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd 4	Ave	19806 1038481	49306 2645117	100538	211171	506017	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd 4	Ave	63821 3658098	171044 9375574	345917	742137	1782346	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd 4	Ave	19892 1081057	51895 2756448	105728	226967	533585	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd 4	Ave	15361 768602	36139 2051580	72918	171202	382200	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-113568-1 Analy Batch No.: 336478

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2023 10:40 Calibration End Date: 01/18/2023 12:53 Calibration ID: 46382

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
Pentachloroethane	DCBd 4	Ave	11181 669101	30888 1793272	63257	133828	325948	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd 4	Ave	66102 3826017	171410 9864337	359659	771965	1858149	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd 4	Ave	85321 4660190	215075 11730063	446751	934487	2285978	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichlorobenzene	DCBd 4	Ave	42587 2170679	106886 5560749	212057	451169	1059406	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd 4	Ave	72774 4170731	188144 10716032	387145	821716	2051911	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd 4	Ave	42609 2125078	108961 5465631	212113	439362	1050231	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd 4	Ave	32069 1695114	82494 4450158	166440	348713	836008	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd 4	Ave	5012 342793	14005 910948	30405	65034	163111	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd 4	Ave	38104 2118844	99876 5469805	204986	427715	1049248	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd 4	Ave	38294 2043505	100901 5220069	200980	419185	995135	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1737 114302	5309 305229	10843	22816	55144	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd 4	Ave	34306 1769210	87853 4478314	173045	359164	867352	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-113568-1 Analy Batch No.: 336478

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2023 10:40 Calibration End Date: 01/18/2023 12:53 Calibration ID: 46382

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2,4-Trichlorobenzene	DCBd 4	Ave	29613 1555068	75247 3984027	150185	316063	766061	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd 4	Ave	15777 796868	37544 2004431	78767	162153	389932	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd 4	Ave	44118 2635063	120536 6751026	244516	519883	1298110	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd 4	Ave	24104 1356066	68681 3444502	129686	276927	673972	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	683526 752953	712742 774679	699242	712637	743467	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	141968 153841	149135 157568	147959	146871	153867	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd 5	Ave	2857793 3136779	2958642 3228897	2928238	2969131	3125432	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	1040681 1164354	1082761 1195617	1072013	1098571	1152627	10.0 10.0	10.0 10.0	10.0	10.0	10.0

Curve Type Legend

Ave = Average ISTD
Lin = Linear 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 Envirc Job No.: 410-113568-1 Analy Batch No.: 336478

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2023 10:40 Calibration End Date: 01/18/2023 12:53 Calibration ID: 46382

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-336478/3	JD18X02.D
Level 2	IC 410-336478/4	JD18X03.D
Level 3	IC 410-336478/5	JD18X04.D
Level 4	IC 410-336478/6	JD18X05.D
Level 5	IC 410-336478/7	JD18X06.D
Level 6	ICIS 410-336478/8	JD18X07.D
Level 7	IC 410-336478/9	JD18X08.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	13.6 -14.6	2.8	8.8	9.6	-7.0	-13.1	50 30	30	30	30	30	30
Chloromethane	14.4 -13.8	5.3	8.8	3.6	-7.6	-10.8	50 30	30	30	30	30	30
Vinyl chloride	13.2 -9.7	3.9	5.3	4.8	-7.3	-10.2	50 30	30	30	30	30	30
1,3-Butadiene	-34.2 0.1	-19.1	2.1	6.9	3.0	-1.8	50 30	30	30	30	30	30
Bromomethane	11.3 -8.5	4.6	5.6	4.7	-9.5	-8.3	50 30	30	30	30	30	30
Chloroethane	13.1 -10.6	5.3	9.0	2.4	-9.3	-9.8	50 30	30	30	30	30	30
Dichlorofluoromethane	9.5 -9.4	6.6	7.7	3.6	-8.7	-9.2	50 30	30	30	30	30	30
Trichlorofluoromethane	6.4 -8.2	1.6	9.1	6.6	-4.6	-10.9	50 30	30	30	30	30	30
Ethyl ether	5.3 -5.8	1.7	6.0	6.0	-5.8	-7.4	50 30	30	30	30	30	30
Freon 123a	13.3 -8.7	3.7	7.9	3.2	-8.6	-10.8	50 30	30	30	30	30	30
Acrolein	-7.4 1.9	-4.9	2.6	8.0	-4.6	4.4	50 30	30	30	30	30	30
1,1-Dichloroethene	16.5 -9.2	4.7	2.0	1.5	-6.4	-9.1	50 30	30	30	30	30	30
Acetone	24.3 -16.6	8.8	6.4	1.1	-12.5	-11.6	50 30	30	30	30	30	30
Freon 113	5.4 -7.4	3.8	5.4	3.9	-1.5	-9.5	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 Envirc Job No.: 410-113568-1 Analy Batch No.: 336478

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2023 10:40 Calibration End Date: 01/18/2023 12:53 Calibration ID: 46382

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	3.4 -4.9	1.5	2.8	5.9	-4.1	-4.6	50 30	30	30	30	30	30
Carbon disulfide	6.5 -3.4	2.6	0.0	2.7	-4.6	-3.7	50 30	30	30	30	30	30
Methyl acetate	-20.2 -0.1	12.6	-0.8	6.4	-5.7	1.6	50 30	30	30	30	30	30
Allyl chloride	+++++ -2.3	4.4	3.5	2.0	-4.5	-3.0	 30	50	30	30	30	30
Methylene Chloride	7.2 -7.7	5.4	3.1	5.2	-7.2	-6.0	50 30	30	30	30	30	30
t-Butyl alcohol	28.9 -22.1	21.9	3.5	0.3	-14.6	-17.8	50 30	30	30	30	30	30
Acrylonitrile	3.8 -3.3	-4.3	9.2	6.7	-8.9	-3.3	50 30	30	30	30	30	30
Methyl tert-butyl ether	-1.4 -3.3	0.0	4.4	5.6	-3.6	-1.7	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	4.0 -6.0	4.5	2.9	5.7	-5.6	-5.5	50 30	30	30	30	30	30
n-Hexane	4.9 -5.2	-0.2	1.9	5.7	0.9	-7.8	50 30	30	30	30	30	30
1,1-Dichloroethane	4.6 -5.4	1.3	4.4	4.9	-5.1	-4.6	50 30	30	30	30	30	30
di-Isopropyl ether	-1.1 -2.3	-0.7	2.5	6.3	-3.1	-1.5	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	0.9 -0.2	-0.2	1.4	2.9	-2.4	-2.4	50 30	30	30	30	30	30
Ethyl t-butyl ether	-2.2 -1.0	-1.1	2.0	6.5	-3.2	-1.1	50 30	30	30	30	30	30
2-Butanone (MEK)	6.1 -9.0	1.3	6.7	6.2	-7.1	-4.2	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	5.9 -6.4	5.7	1.5	5.0	-6.2	-5.6	50 30	30	30	30	30	30
2,2-Dichloropropane	3.4 -4.5	2.4	4.0	3.0	-4.2	-4.2	50 30	30	30	30	30	30
Propionitrile	1.5 -6.9	4.0	3.6	6.5	-4.2	-4.5	50 30	30	30	30	30	30
Methacrylonitrile	-3.2 -5.1	-3.9	4.9	11.2	-3.5	-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 Envirc Job No.: 410-113568-1 Analy Batch No.: 336478

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2023 10:40 Calibration End Date: 01/18/2023 12:53 Calibration ID: 46382

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	3.4 -3.9	-2.3	3.4	5.9	-3.6	-3.0	50 30	30	30	30	30	30
Tetrahydrofuran	2.6 -9.2	-6.2	5.6	10.7	-2.2	-1.5	50 30	30	30	30	30	30
Chloroform	3.3 -4.6	1.0	3.9	5.5	-4.8	-4.2	50 30	30	30	30	30	30
1,1,1-Trichloroethane	6.6 -5.6	3.9	4.4	3.0	-6.1	-6.1	50 30	30	30	30	30	30
Cyclohexane	5.3 -4.2	0.3	1.8	4.7	-0.7	-7.1	50 30	30	30	30	30	30
Carbon tetrachloride	3.7 -3.2	2.6	2.7	3.5	-4.0	-5.2	50 30	30	30	30	30	30
1,1-Dichloropropene	2.7 -3.4	1.3	3.2	4.0	-3.4	-4.4	50 30	30	30	30	30	30
Isobutyl alcohol	14.4 -11.1	8.8	5.5	-6.5	-2.5	-8.6	50 30	30	30	30	30	30
Benzene	6.7 -6.3	2.9	3.1	4.1	-5.7	-4.8	50 30	30	30	30	30	30
1,2-Dichloroethane	9.8 -8.1	3.0	1.4	5.7	-6.2	-5.7	50 30	30	30	30	30	30
t-Amyl methyl ether	-2.2 -0.4	-2.0	1.8	6.4	-3.6	-0.1	50 30	30	30	30	30	30
n-Heptane	14.2 -8.2	-2.3	3.8	5.4	-1.8	-11.0	50 30	30	30	30	30	30
n-Butanol	-11.1 0.5	-1.7	2.7	10.5	-1.2	0.3	50 30	30	30	30	30	30
Trichloroethene	8.0 -5.9	3.4	1.3	4.2	-5.7	-5.3	50 30	30	30	30	30	30
Methylcyclohexane	6.5 -3.3	-1.8	-0.1	5.1	0.2	-6.5	50 30	30	30	30	30	30
1,2-Dichloropropane	2.2 -3.7	1.6	4.1	4.7	-5.2	-3.7	50 30	30	30	30	30	30
Methyl methacrylate	-7.8 7.3	-9.3	5.0	5.3	-2.4	2.0	50 30	30	30	30	30	30
1,4-Dioxane	-35.9 -0.7	-4.5	14.6	29.7	3.0	-6.2	50 30	30	30	30	30	30
Dibromomethane	2.2 -5.6	0.5	5.5	6.0	-5.6	-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 Envirc Job No.: 410-113568-1 Analy Batch No.: 336478

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2023 10:40 Calibration End Date: 01/18/2023 12:53 Calibration ID: 46382

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	0.3 -1.0	-1.5	1.5	5.5	-3.0	-1.8	50 30	30	30	30	30	30
2-Nitropropane	13.2 -7.4	-5.6	2.1	7.8	-6.6	-3.4	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-3.7 2.0	-4.9	-0.1	5.5	-1.0	2.3	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	-8.6 -3.3	-4.9	5.4	11.3	-1.8	1.9	50 30	30	30	30	30	30
Toluene	3.0 -4.6	3.3	3.4	4.1	-4.9	-4.3	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-4.2 1.9	-3.2	1.6	5.2	-2.1	0.8	50 30	30	30	30	30	30
Ethyl methacrylate	-12.3 11.3	-8.0	-5.4	5.2	1.1	7.9	50 30	30	30	30	30	30
1,1,2-Trichloroethane	4.6 -7.6	7.6	5.7	2.2	-6.6	-5.9	50 30	30	30	30	30	30
Tetrachloroethene	5.5 -5.6	0.0	4.5	4.4	-3.8	-5.0	50 30	30	30	30	30	30
1,3-Dichloropropane	-2.3 -3.5	2.7	5.1	5.0	-4.0	-3.1	50 30	30	30	30	30	30
2-Hexanone	-10.9 -0.8	-9.4	4.3	13.5	-0.6	3.8	50 30	30	30	30	30	30
Dibromochloromethane	-5.8 2.8	-4.5	1.8	5.8	-1.6	1.5	50 30	30	30	30	30	30
1,2-Dibromoethane (EDB)	-0.2 -2.5	0.4	3.1	4.8	-3.1	-2.5	50 30	30	30	30	30	30
1-Chlorohexane	12.2 -5.0	2.9	-0.5	2.0	-5.3	-6.3	50 30	30	30	30	30	30
Chlorobenzene	6.4 -6.3	1.1	3.4	4.5	-4.3	-4.8	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	2.0 -0.4	-1.2	0.9	4.0	-3.6	-1.7	50 30	30	30	30	30	30
Ethylbenzene	-0.9 -2.2	-0.2	2.5	4.9	-2.4	-1.7	50 30	30	30	30	30	30
m&p-Xylene	-2.4 -1.1	-0.1	2.5	4.1	-1.9	-1.3	50 30	30	30	30	30	30
o-Xylene	-5.5 0.6	-1.8	2.6	5.9	-1.1	-0.6	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-113568-1 Analy Batch No.: 336478

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2023 10:40 Calibration End Date: 01/18/2023 12:53 Calibration ID: 46382

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	-11.9 6.8	-4.9	-1.4	5.9	0.4	5.2	50 30	30	30	30	30	30
Bromoform	-6.5 7.3	-5.7	-1.8	5.6	-1.3	2.5	50 30	30	30	30	30	30
Isopropylbenzene	-3.4 -0.9	-1.2	2.5	4.8	-1.2	-0.6	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-1.4 -5.0	1.5	3.9	7.3	-4.2	-2.2	50 30	30	30	30	30	30
Bromobenzene	5.3 -5.5	0.9	1.9	6.1	-5.1	-3.7	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-6.5 2.0	-8.6	2.6	10.9	-2.4	2.0	50 30	30	30	30	30	30
1,2,3-Trichloropropane	5.3 -6.5	1.7	2.5	5.9	-4.8	-4.2	50 30	30	30	30	30	30
N-Propylbenzene	1.6 -7.3	0.7	4.6	6.6	-3.5	-2.7	50 30	30	30	30	30	30
2-Chlorotoluene	2.8 -4.4	-0.9	2.9	5.7	-4.0	-2.1	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-4.3 -2.1	-0.6	2.3	7.3	-2.3	-0.3	50 30	30	30	30	30	30
4-Chlorotoluene	-1.3 -4.8	-0.3	3.4	8.6	-3.2	-2.5	50 30	30	30	30	30	30
tert-Butylbenzene	4.9 -2.4	-4.4	-1.8	12.8	-4.5	-4.6	50 30	30	30	30	30	30
Pentachloroethane	-8.0 2.7	-1.6	2.6	6.2	-2.0	0.0	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-4.4 -0.7	-4.0	2.6	7.7	-1.7	0.6	50 30	30	30	30	30	30
sec-Butylbenzene	0.1 -4.2	-2.3	3.3	5.7	-2.0	-0.7	50 30	30	30	30	30	30
1,3-Dichlorobenzene	4.1 -5.3	1.3	2.3	6.4	-5.3	-3.5	50 30	30	30	30	30	30
p-Isopropyltoluene	-3.3 -0.8	-3.1	1.5	5.3	-0.3	0.7	50 30	30	30	30	30	30
1,4-Dichlorobenzene	5.0 -6.2	4.0	3.0	4.4	-5.4	-4.8	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	0.7 -2.6	0.4	3.1	5.7	-4.0	-3.2	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-113568-1 Analy Batch No.: 336478

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/18/2023 10:40 Calibration End Date: 01/18/2023 12:53 Calibration ID: 46382

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	-14.9 7.7	-7.9	1.8	6.5	1.2	5.7	50 30	30	30	30	30	30
n-Butylbenzene	-2.5 -2.5	-1.0	3.5	5.6	-1.8	-1.4	50 30	30	30	30	30	30
1,2-Dichlorobenzene	0.3 -4.8	2.3	3.8	5.9	-4.7	-2.7	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-15.3 3.7	0.3	4.3	7.3	-1.6	1.3	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	3.4 -6.0	2.6	2.9	4.5	-4.4	-3.0	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	2.2 -4.3	0.6	2.2	5.2	-3.3	-2.5	50 30	30	30	30	30	30
Hexachlorobutadiene	6.0 -6.2	-2.3	4.3	5.1	-4.2	-2.7	50 30	30	30	30	30	30
Naphthalene	-6.9 -0.7	-1.4	1.8	5.9	0.2	1.1	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-4.3 -4.7	5.7	1.5	6.1	-2.1	-2.1	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-0.9 0.7	0.6	0.1	0.2	-0.6	-0.2	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	-0.6 -1.1	1.7	2.3	-0.2	-0.6	-1.5	50 30	30	30	30	30	30
Toluene-d8 (Surr)	-1.0 0.6	0.4	0.6	-0.8	0.7	-0.3	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-2.1 1.2	-0.2	0.0	-0.3	0.9	0.5	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X02.D
Lims ID: IC std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 18-Jan-2023 10:40:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0075310-003
Misc. Info.: IC STD1
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jan-2023 15:00:16 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: DVW2 Date: 18-Jan-2023 11:09:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.898	1.898	0.000	97	22216	0.2000	0.2272	
5 Chloromethane	50	2.087	2.093	-0.006	99	25931	0.2000	0.2289	
6 Vinyl chloride	62	2.203	2.203	0.000	97	24416	0.2000	0.2264	
7 Butadiene	39	2.209	2.221	-0.012	93	29417	0.2000	0.1316	M
9 Bromomethane	94	2.532	2.532	0.000	90	15860	0.2000	0.2226	
10 Chloroethane	64	2.605	2.605	0.000	99	14001	0.2000	0.2263	
11 Dichlorofluoromethane	67	2.830	2.843	-0.013	96	31472	0.2000	0.2190	
12 Trichlorofluoromethane	101	2.910	2.904	0.006	93	28962	0.2000	0.2128	
13 Ethyl ether	59	3.135	3.135	0.000	91	12190	0.2000	0.2106	M
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.202	3.227	-0.025	96	19618	0.2000	0.2266	M
17 Acrolein	56	3.294	3.300	-0.006	98	66838	10.0	9.26	
18 1,1-Dichloroethene	96	3.428	3.434	-0.006	98	15589	0.2000	0.2331	
20 Acetone	43	3.458	3.458	0.000	90	22545	2.00	2.49	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.471	3.477	-0.006	91	13513	0.2000	0.2107	
24 Isopropyl alcohol	45	3.605	3.611	-0.006	30	6076	4.00	4.07	
21 Iodomethane	142	3.611	3.617	-0.006	99	23402	0.2000	0.2068	
22 Ethyl bromide	108	3.641	3.647	-0.006	97	12240	0.2004	0.2076	
23 Carbon disulfide	76	3.708	3.715	-0.007	99	42523	0.2000	0.2130	
25 Methyl acetate	43	3.861	3.861	0.000	20	7566	0.2000	0.1597	M
27 3-Chloro-1-propene	41		3.891				ND	ND	
29 Methylene Chloride	84	4.074	4.074	0.000	92	15956	0.2000	0.2143	
* 30 t-Butyl alcohol-d10 (IS)	65	4.056	4.099	-0.043	89	161970	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.202	4.202	0.000	32	18012	4.00	5.16	M
32 Acrylonitrile	53	4.397	4.403	-0.006	66	6503	0.5000	0.5192	
33 Methyl tert-butyl ether	73	4.446	4.464	-0.018	97	35764	0.2000	0.1971	
34 trans-1,2-Dichloroethene	96	4.470	4.477	-0.007	98	15754	0.2000	0.2081	
35 Hexane	57	4.897	4.909	-0.012	95	20152	0.2000	0.2098	
37 1,1-Dichloroethane	63	5.141	5.141	0.000	96	28037	0.2000	0.2092	
38 Isopropyl ether	45	5.202	5.202	0.000	94	45886	0.2000	0.1978	
39 2-Chloro-1,3-butadiene	53	5.257	5.245	0.012	91	20686	0.2000	0.2018	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.738	5.739	-0.001	96	42457	0.2000	0.1955	
41 2-Butanone (MEK)	43	5.952	5.940	0.012	99	37732	2.00	2.12	
42 cis-1,2-Dichloroethene	96	5.982	5.976	0.006	83	17725	0.2000	0.2118	
43 2,2-Dichloropropane	77	5.995	5.995	-0.001	82	22744	0.2000	0.2068	
45 Propionitrile	54	6.055	6.031	0.024	95	17279	4.00	4.06	M
S 47 1,2-Dichloroethene, Total	100				0			0.4199	
48 Methacrylonitrile	67	6.263	6.251	0.012	92	35174	2.00	1.94	
49 Chlorobromomethane	128	6.305	6.305	0.000	85	7595	0.2000	0.2068	
50 Tetrahydrofuran	71	6.318	6.312	0.006	70	5153	1.00	1.03	
51 Chloroform	83	6.464	6.464	0.000	94	27799	0.2000	0.2065	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.677	0.000	94	683526	10.0	9.91	
53 1,1,1-Trichloroethane	97	6.683	6.690	-0.007	38	24723	0.2000	0.2132	
54 Cyclohexane	56	6.781	6.781	0.000	92	24855	0.2000	0.2105	
56 Carbon tetrachloride	117	6.903	6.897	0.006	92	21151	0.2000	0.2073	
57 1,1-Dichloropropene	75	6.897	6.903	-0.006	93	21151	0.2000	0.2055	
58 Isobutyl alcohol	41	7.061	7.068	-0.007	84	13343	10.0	11.4	M
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.135	-0.007	67	141968	10.0	9.94	
60 Benzene	78	7.159	7.165	-0.006	96	66420	0.2000	0.2135	
61 1,2-Dichloroethane	62	7.226	7.238	-0.012	79	19222	0.2000	0.2196	
63 Tert-amyl methyl ether	73	7.348	7.354	-0.006	97	38916	0.2000	0.1957	
* 64 Fluorobenzene (IS)	96	7.567	7.574	-0.007	99	2873412	10.0	10.0	
65 n-Heptane	43	7.580	7.586	-0.006	64	24862	0.2000	0.2283	
67 n-Butanol	56	7.964	7.952	0.012	88	14984	17.5	15.6	
68 Trichloroethene	95	8.043	8.049	-0.006	97	18153	0.2000	0.2160	
69 Methylcyclohexane	83	8.354	8.354	0.000	89	27400	0.2000	0.2129	
70 1,2-Dichloropropane	63	8.378	8.384	-0.006	76	16554	0.2000	0.2044	
71 2-ethoxy-2-methyl butane	87	8.396	8.390	0.006	90	20973	0.2000	0.1837	
72 Methyl methacrylate	69	8.476	8.470	0.006	81	6361	0.2000	0.1844	M
74 1,4-Dioxane	88	8.494	8.476	0.018	32	1056	10.0	6.41	
73 Dibromomethane	93	8.494	8.488	0.006	92	7949	0.2000	0.2043	
76 Dichlorobromomethane	83	8.726	8.726	0.000	96	19451	0.2000	0.2006	
77 2-Nitropropane	41	9.006	9.006	0.000	92	11567	1.00	1.13	M
79 1-Bromo-2-chloroethane	63	9.110	9.122	-0.012	97	16748	0.2000	0.1991	
81 cis-1,3-Dichloropropene	75	9.287	9.281	0.007	96	23059	0.2000	0.1926	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	98	88468	2.00	1.83	
$ 83 Toluene-d8 (Surr)	98	9.597	9.598	-0.001	94	2857793	10.0	9.90	
84 Toluene	92	9.677	9.677	0.000	97	41896	0.2000	0.2060	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	93	20174	0.2000	0.1916	
104 Ethyl methacrylate	69	10.006	10.006	0.000	89	13073	0.2000	0.1754	
S 105 1,3-Dichloropropene, Total	100				0			0.3842	
106 1,1,2-Trichloroethane	97	10.140	10.140	0.000	92	12458	0.2000	0.2092	
107 Tetrachloroethene	166	10.231	10.232	-0.001	96	20191	0.2000	0.2111	
108 1,3-Dichloropropane	76	10.311	10.305	0.006	92	19373	0.2000	0.1954	
109 2-Hexanone	43	10.366	10.366	0.000	97	61791	2.00	1.78	
111 Chlorodibromomethane	129	10.524	10.524	0.000	90	13267	0.2000	0.1884	
112 Ethylene Dibromide	107	10.634	10.628	0.006	96	10961	0.2000	0.1996	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	86	2185629	10.0	10.0	
114 1-Chlorohexane	91	11.073	11.079	-0.006	95	25975	0.2000	0.2245	
115 Chlorobenzene	112	11.091	11.091	0.000	95	51132	0.2000	0.2128	
117 1,1,1,2-Tetrachloroethane	131	11.170	11.176	-0.006	94	16320	0.2000	0.2040	
116 Ethylbenzene	91	11.176	11.183	-0.007	99	77893	0.2000	0.1983	
S 118 Xylenes, Total	106				0			0.5795	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 m-Xylene & p-Xylene	106	11.298	11.298	0.000	89	59332	0.4000	0.3906	
120 o-Xylene	106	11.621	11.628	-0.007	97	27781	0.2000	0.1889	
121 Styrene	104	11.640	11.640	0.000	94	41632	0.2000	0.1762	
122 Bromoform	173	11.798	11.792	0.006	97	8050	0.2000	0.1870	
123 Isopropylbenzene	105	11.926	11.926	0.000	96	73468	0.2000	0.1931	
$ 126 4-Bromofluorobenzene (Surr)	95	12.066	12.067	-0.001	92	1040681	10.0	9.79	
127 1,1,2,2-Tetrachloroethane	83	12.170	12.170	0.000	95	14931	0.2000	0.1971	
128 Bromobenzene	156	12.182	12.182	0.000	91	20805	0.2000	0.2106	
129 trans-1,4-Dichloro-2-butene	53	12.195	12.195	-0.001	95	36457	2.00	1.87	
130 1,2,3-Trichloropropane	110	12.213	12.219	-0.006	77	4197	0.2000	0.2107	
131 N-Propylbenzene	91	12.255	12.256	-0.001	99	95907	0.2000	0.2033	
132 2-Chlorotoluene	126	12.329	12.329	0.000	97	19806	0.2000	0.2055	
133 1,3,5-Trimethylbenzene	105	12.390	12.390	0.000	95	63821	0.2000	0.1914	
134 4-Chlorotoluene	126	12.420	12.420	0.000	97	19892	0.2000	0.1974	
135 tert-Butylbenzene	134	12.627	12.627	0.000	93	15361	0.2000	0.2098	
136 Pentachloroethane	167	12.658	12.664	-0.006	85	11181	0.2000	0.1839	
137 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	96	66102	0.2000	0.1912	
138 sec-Butylbenzene	105	12.792	12.792	0.000	94	85321	0.2000	0.2001	
139 1,3-Dichlorobenzene	146	12.889	12.890	-0.001	98	42587	0.2000	0.2083	
140 4-Isopropyltoluene	119	12.902	12.896	0.006	97	72774	0.2000	0.1934	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	94	1272727	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.963	12.963	0.000	95	42609	0.2000	0.2099	
143 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	97	32069	0.2000	0.2014	
144 Benzyl chloride	126	13.042	13.042	0.000	98	5012	0.2000	0.1701	
145 p-Diethylbenzene	119	13.097	13.097	0.000	92	44130	0.2000	0.1945	
146 n-Butylbenzene	92	13.188	13.188	0.000	97	38104	0.2000	0.1951	
147 1,2-Dichlorobenzene	146	13.219	13.219	0.000	97	38294	0.2000	0.2005	
149 1,2-Dibromo-3-Chloropropane	155	13.761	13.761	0.000	87	1737	0.2000	0.1694	
150 1,3,5-Trichlorobenzene	180	13.883	13.883	0.000	97	34306	0.2000	0.2068	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	93	29613	0.2000	0.2043	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	97	15777	0.2000	0.2120	
153 Naphthalene	128	14.487	14.481	0.006	97	44118	0.2000	0.1863	
154 1,2,3-Trichlorobenzene	180	14.627	14.621	0.006	95	24104	0.2000	0.1914	
155 2-Methylnaphthalene	142	15.224	15.224	0.000	91	24215	0.2000	0.1733	
166 Pentane	43	2.934	2.934	0.000	95	22719	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

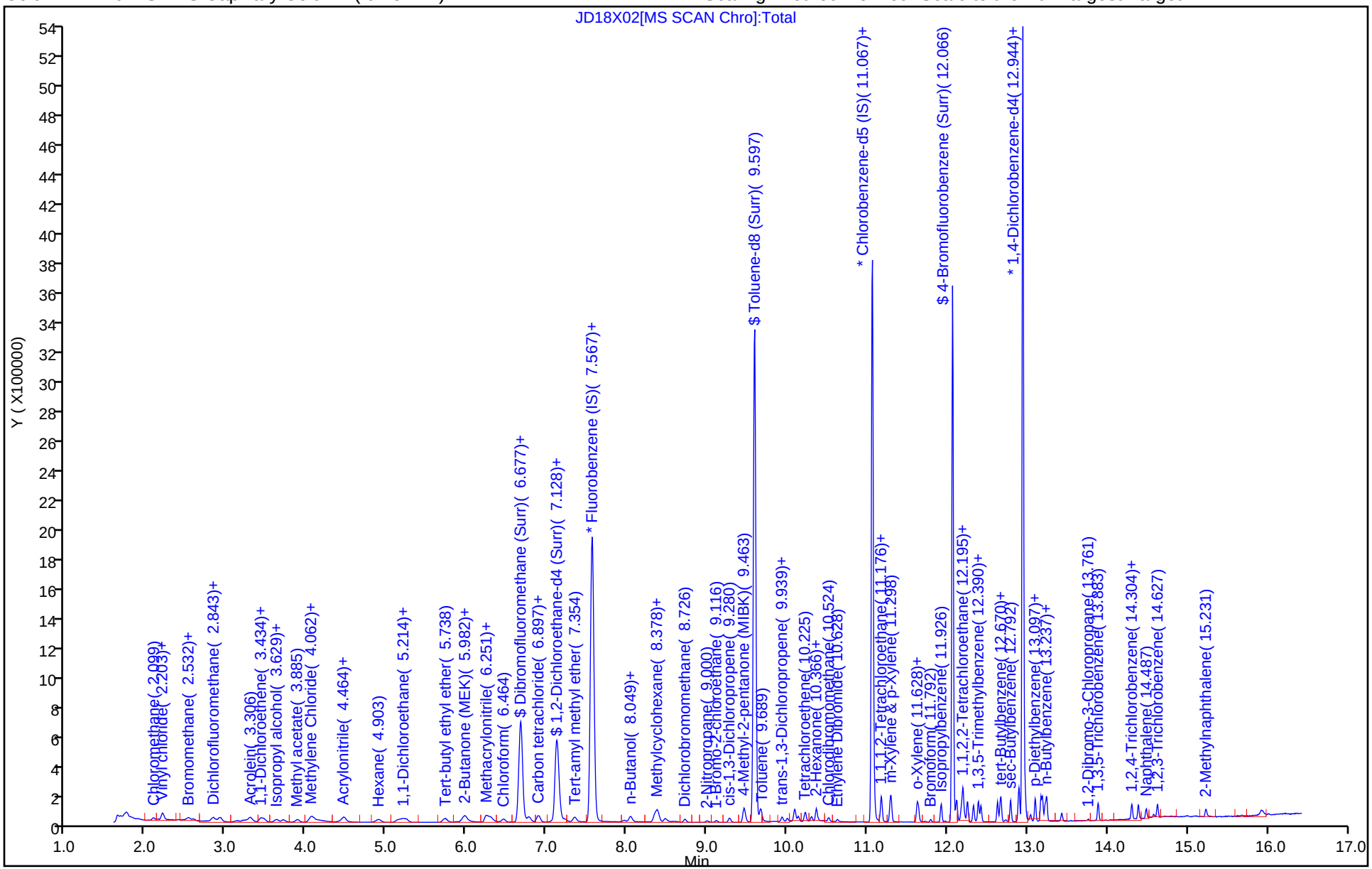
MSV_LL_#1_826_00065	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00132	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00071	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00037	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 18-Jan-2023 15:00:17 Chrom Revision: 2.3 09-Jan-2023 13:34:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X02.D				
Injection Date:	18-Jan-2023 10:40:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std1			Worklist Smp#:	3
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSV_16334_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: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

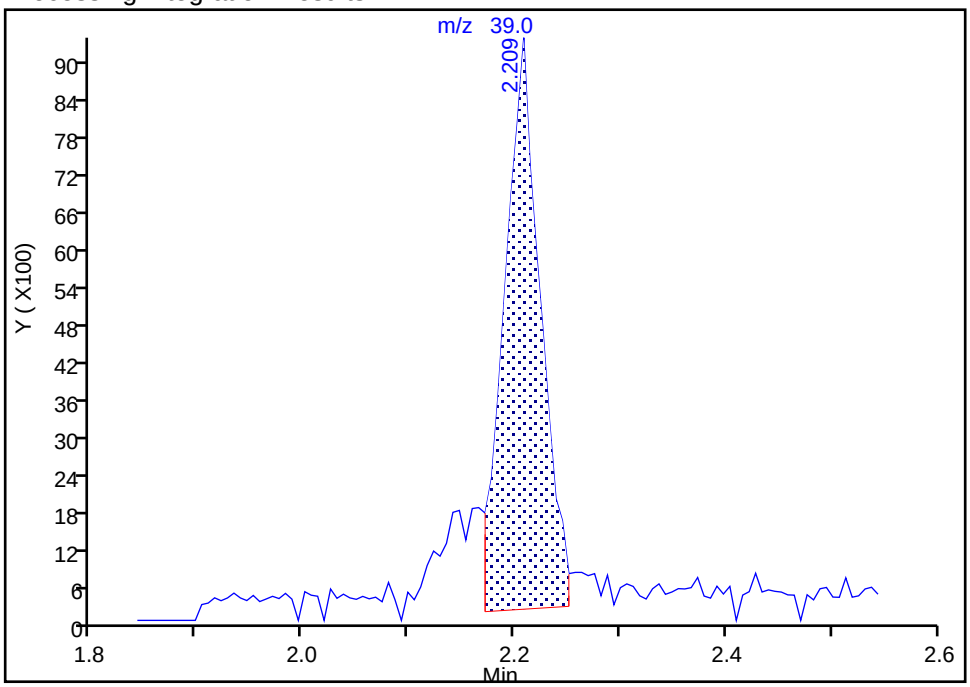
Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X02.D
Injection Date: 18-Jan-2023 10:40:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

7 Butadiene, CAS: 106-99-0

Signal: 1

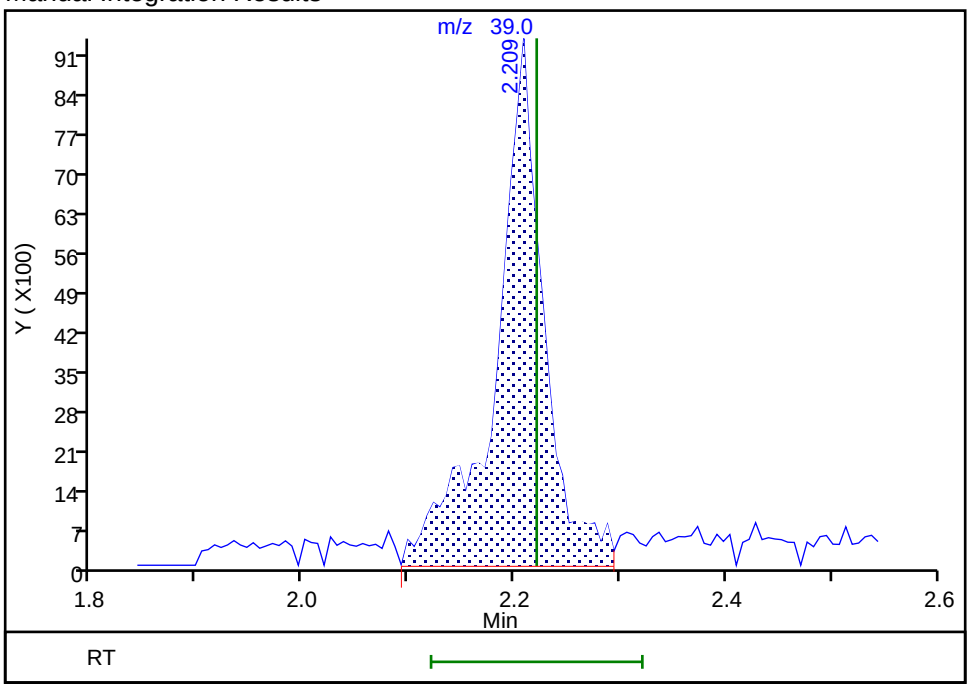
Processing Integration Results

RT: 2.21
Area: 21835
Amount: 0.200000
Amount Units: ug/l



Manual Integration Results

RT: 2.21
Area: 29417
Amount: 0.131622
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:07:07
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

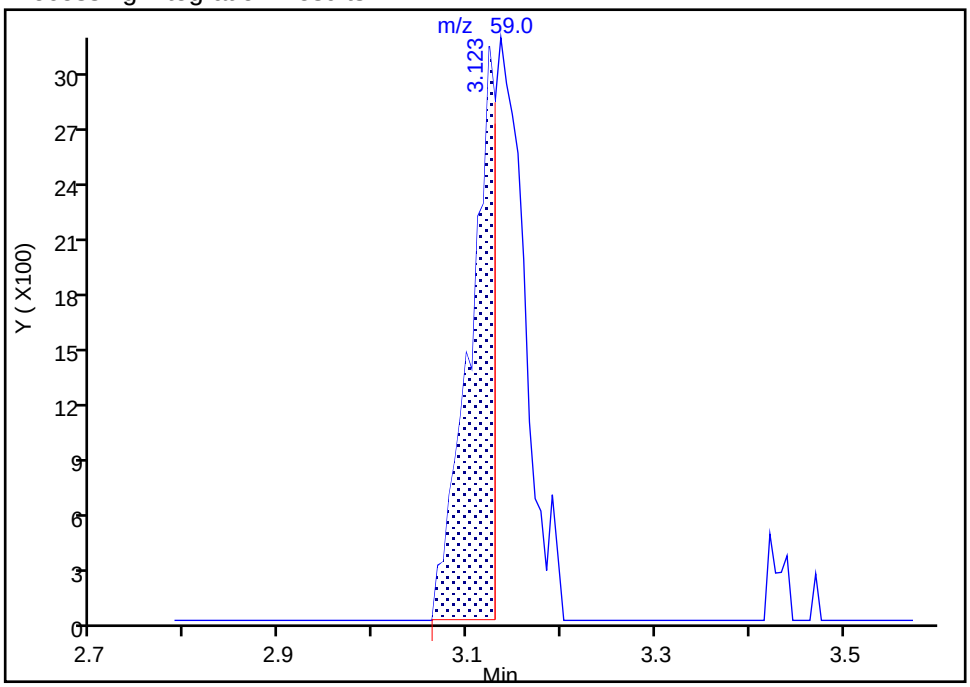
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X02.D				
Injection Date:	18-Jan-2023 10:40:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

13 Ethyl ether, CAS: 60-29-7

Signal: 1

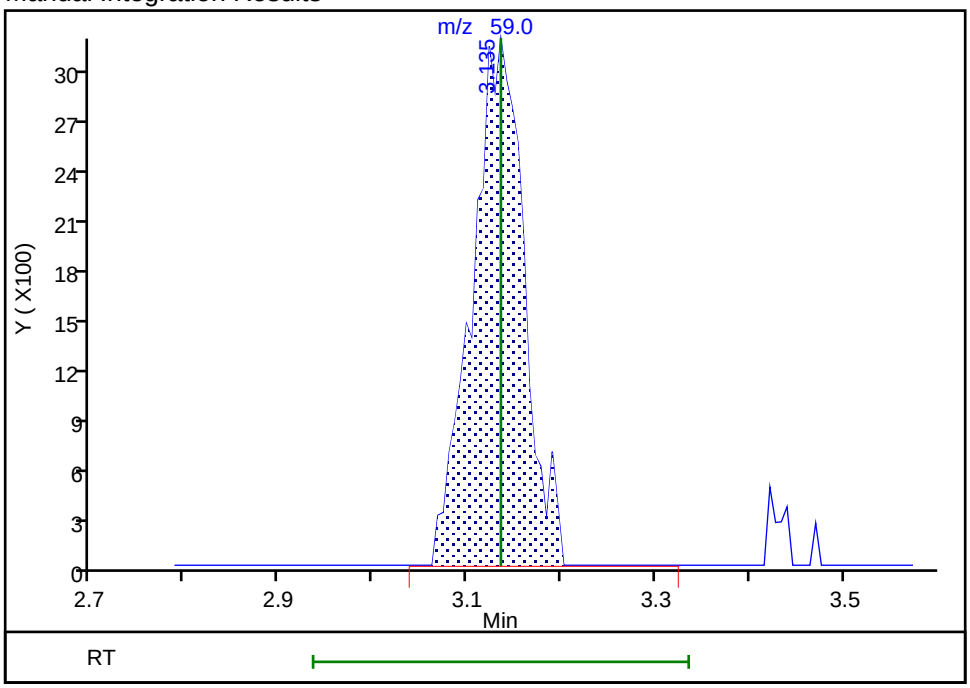
Processing Integration Results

RT: 3.12
Area: 6009
Amount: 0.199998
Amount Units: ug/l



Manual Integration Results

RT: 3.14
Area: 12190
Amount: 0.210560
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:07:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

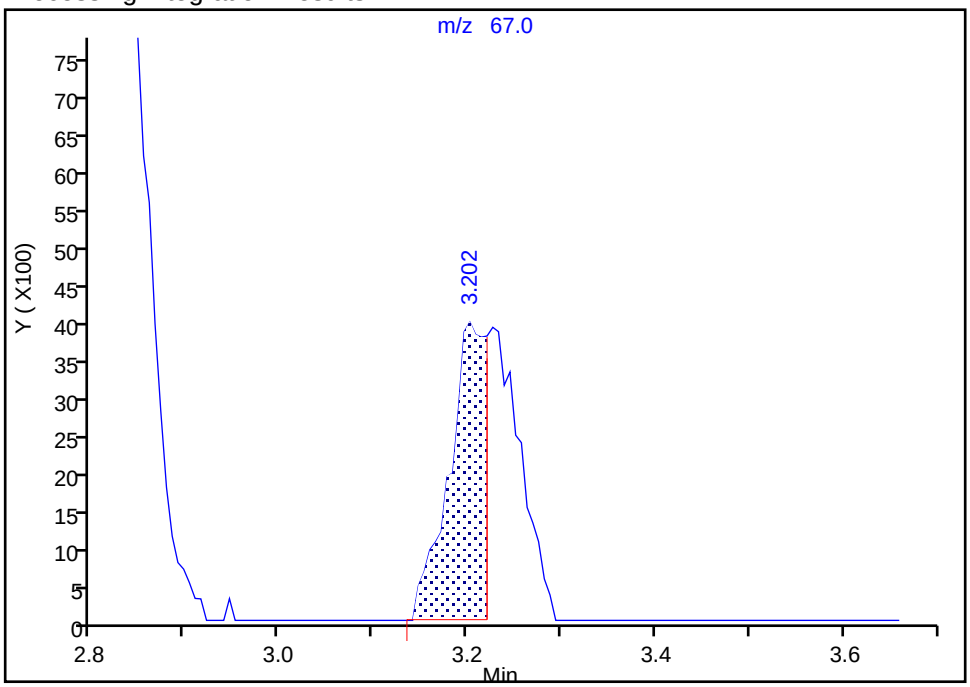
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X02.D				
Injection Date:	18-Jan-2023 10:40:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

16 1,2-Dichloro-1,1,2-trifluoroetha, CAS: 354-23-4

Signal: 1

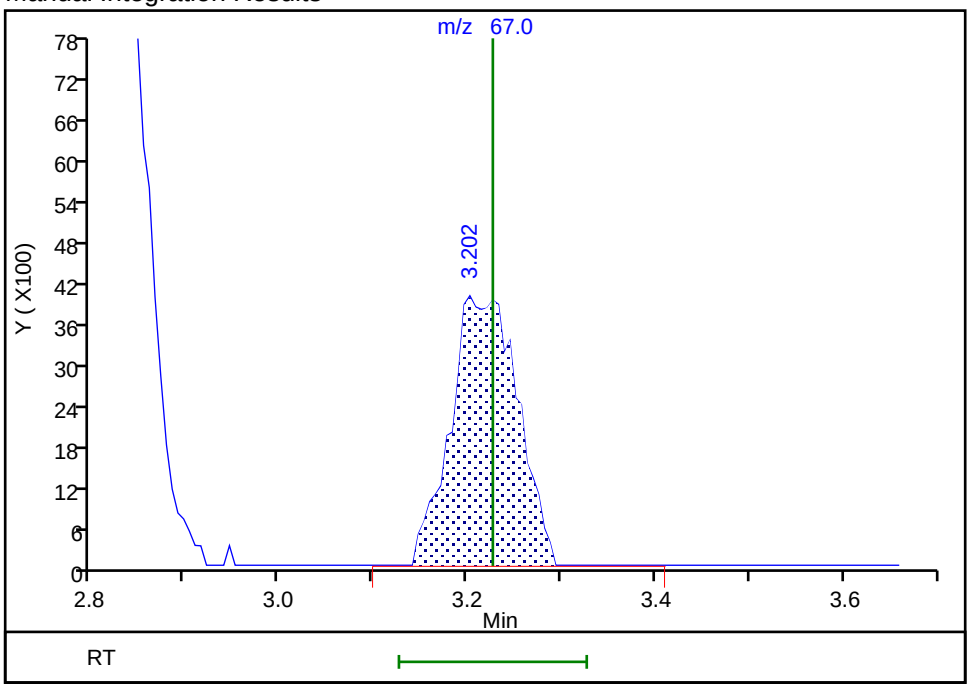
Processing Integration Results

RT: 3.20
Area: 10969
Amount: 0.200000
Amount Units: ug/l



Manual Integration Results

RT: 3.20
Area: 19618
Amount: 0.226647
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:07:21

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

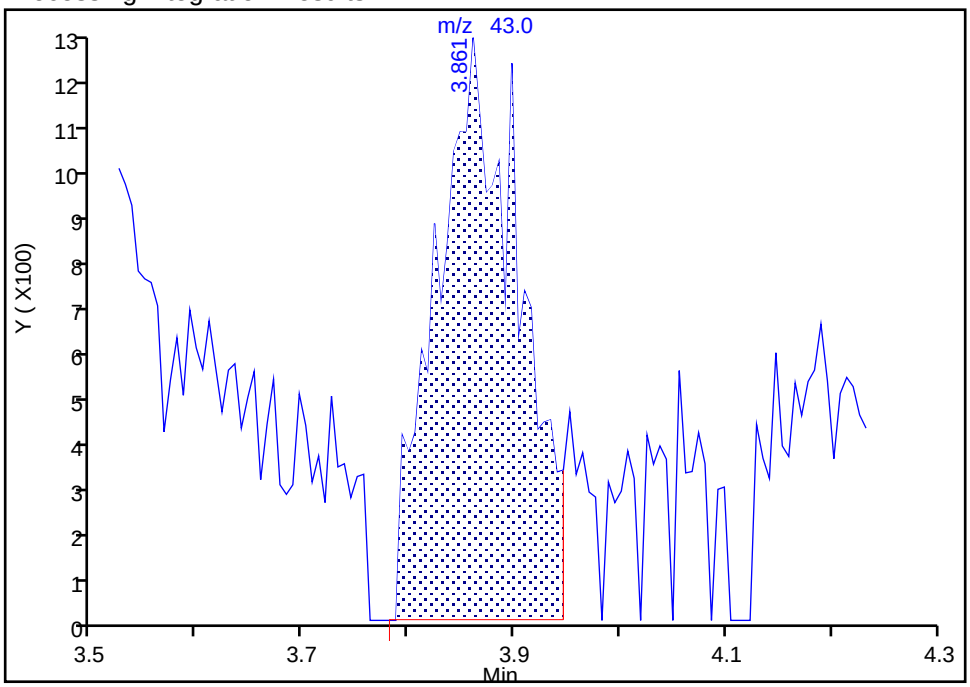
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X02.D				
Injection Date:	18-Jan-2023 10:40:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Methyl acetate, CAS: 79-20-9

Signal: 1

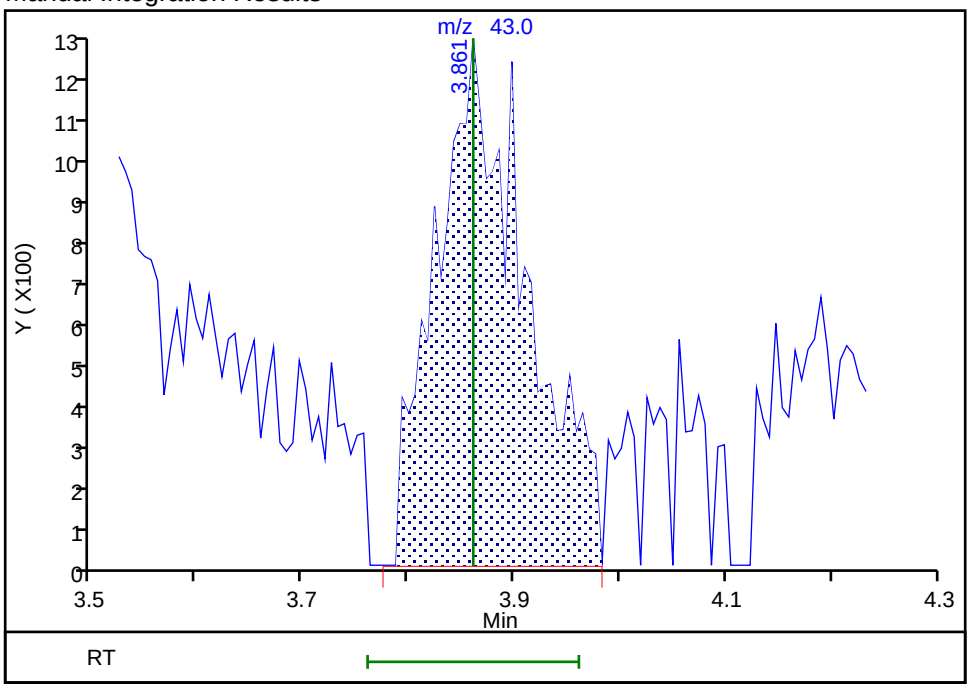
Processing Integration Results

RT: 3.86
Area: 6945
Amount: 0.200000
Amount Units: ug/l



Manual Integration Results

RT: 3.86
Area: 7566
Amount: 0.159663
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:07:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

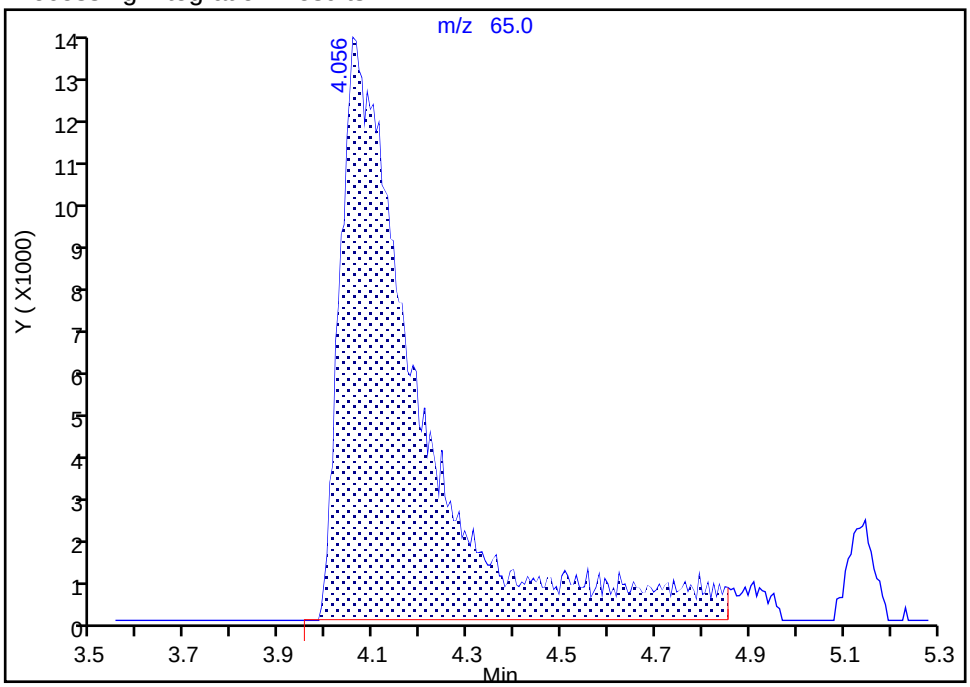
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X02.D				
Injection Date:	18-Jan-2023 10:40:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

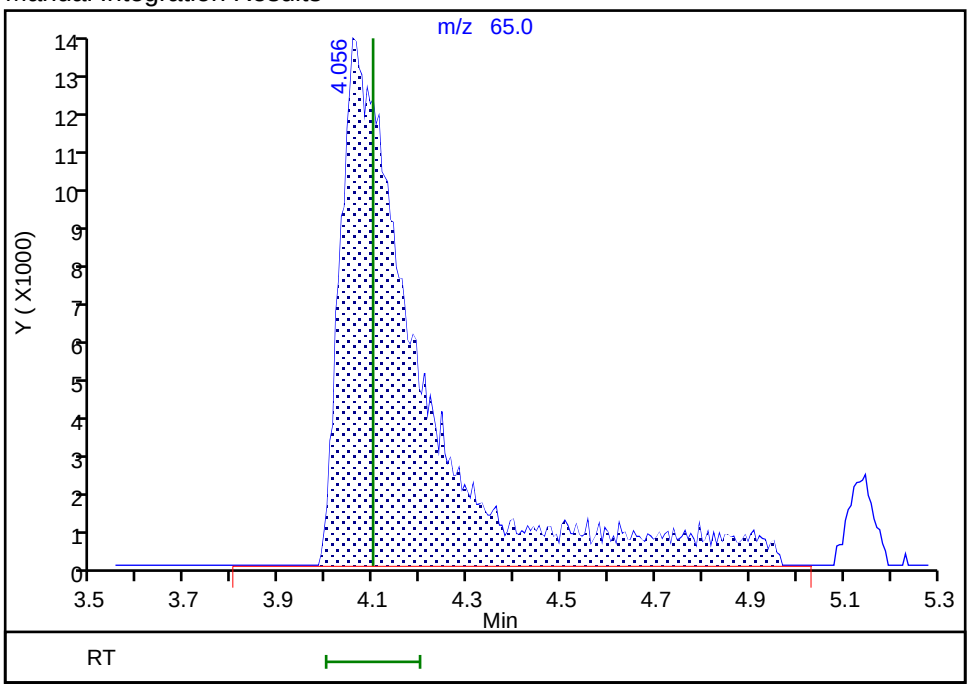
Processing Integration Results

RT: 4.06
Area: 157819
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.06
Area: 161970
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:07:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

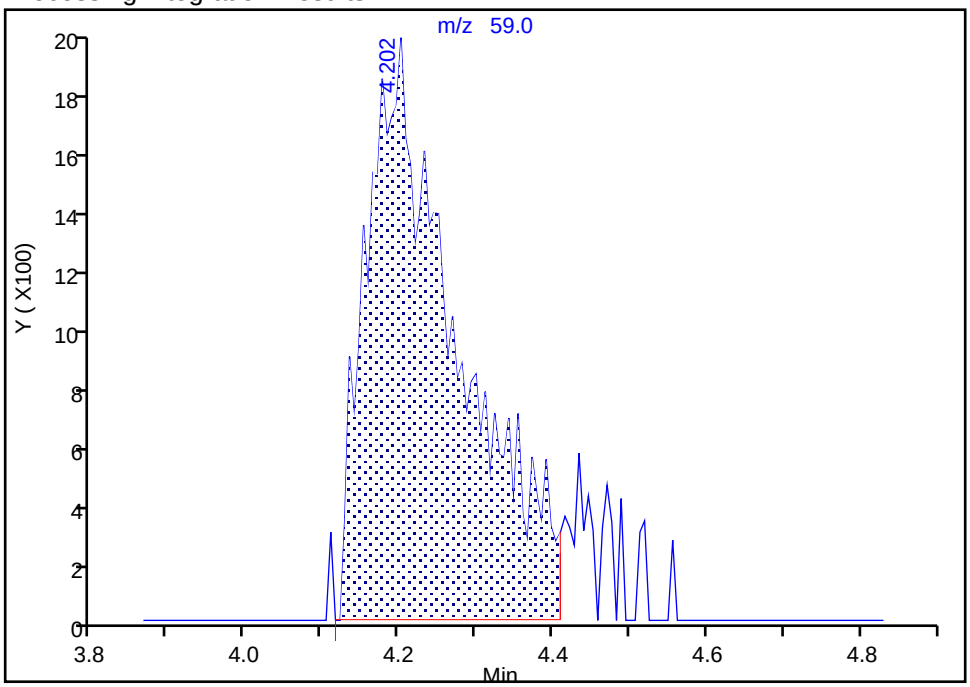
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X02.D				
Injection Date:	18-Jan-2023 10:40:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

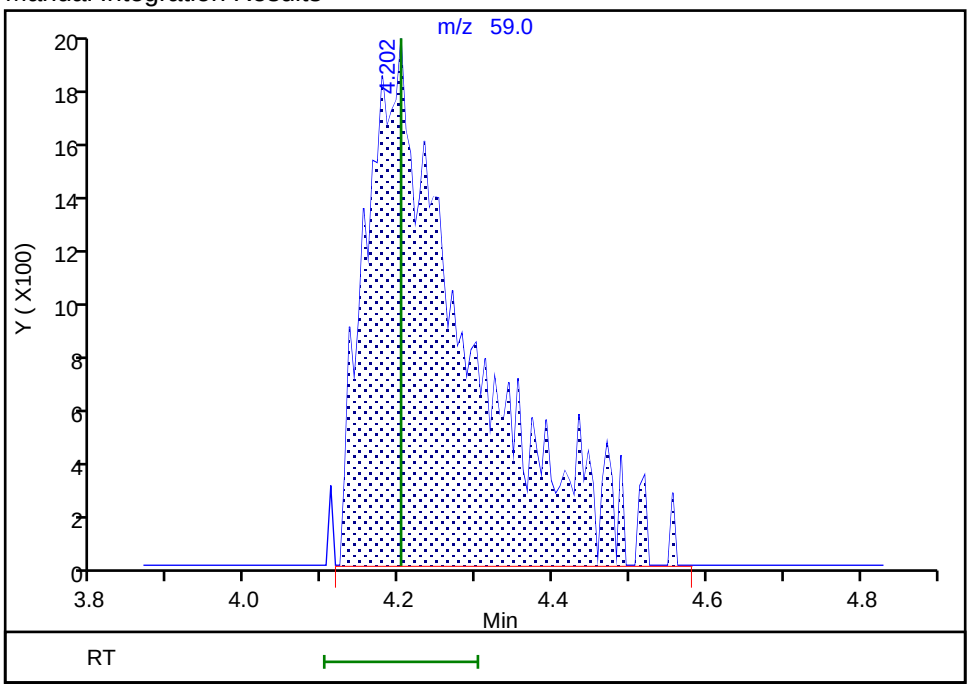
Processing Integration Results

RT: 4.20
Area: 16215
Amount: 4.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.20
Area: 18012
Amount: 5.157514
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:07:47

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

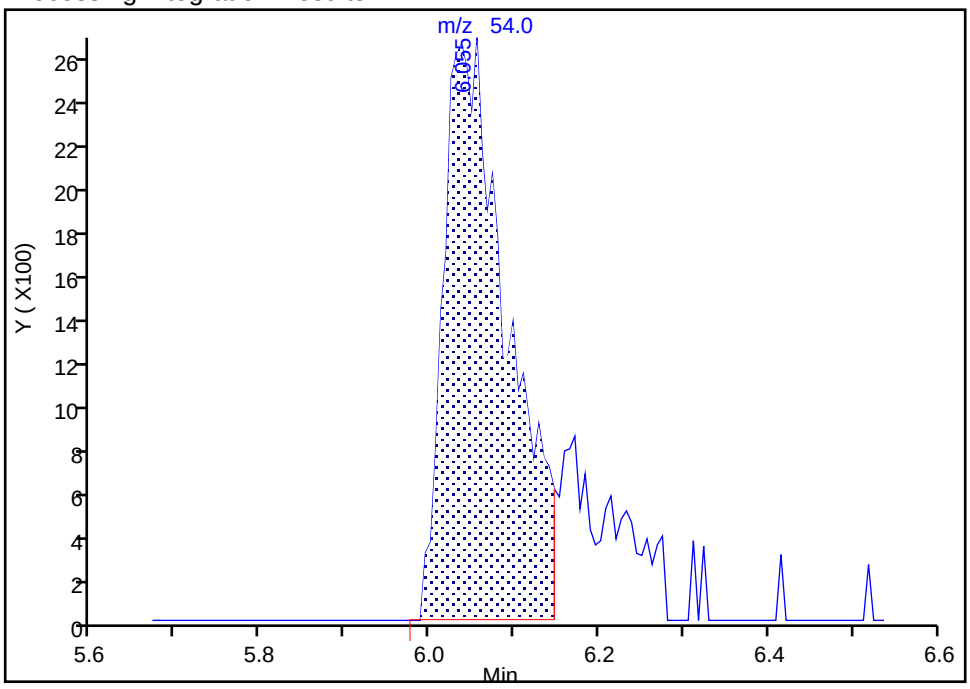
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X02.D				
Injection Date:	18-Jan-2023 10:40:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

45 Propionitrile, CAS: 107-12-0

Signal: 1

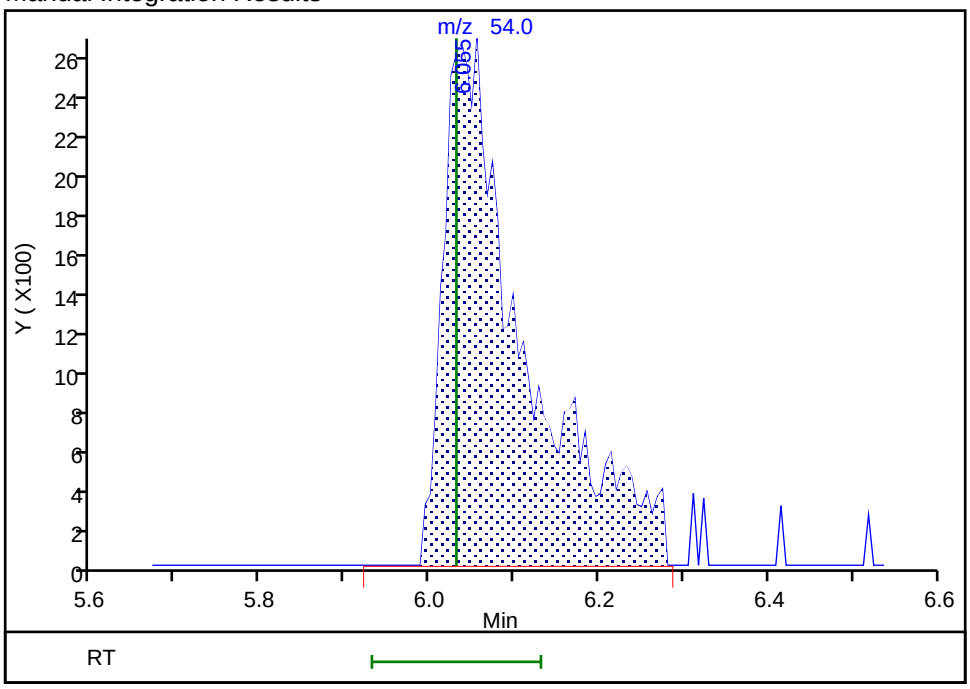
Processing Integration Results

RT: 6.06
Area: 13657
Amount: 4.000000
Amount Units: ug/l



Manual Integration Results

RT: 6.06
Area: 17279
Amount: 4.058009
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:08:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

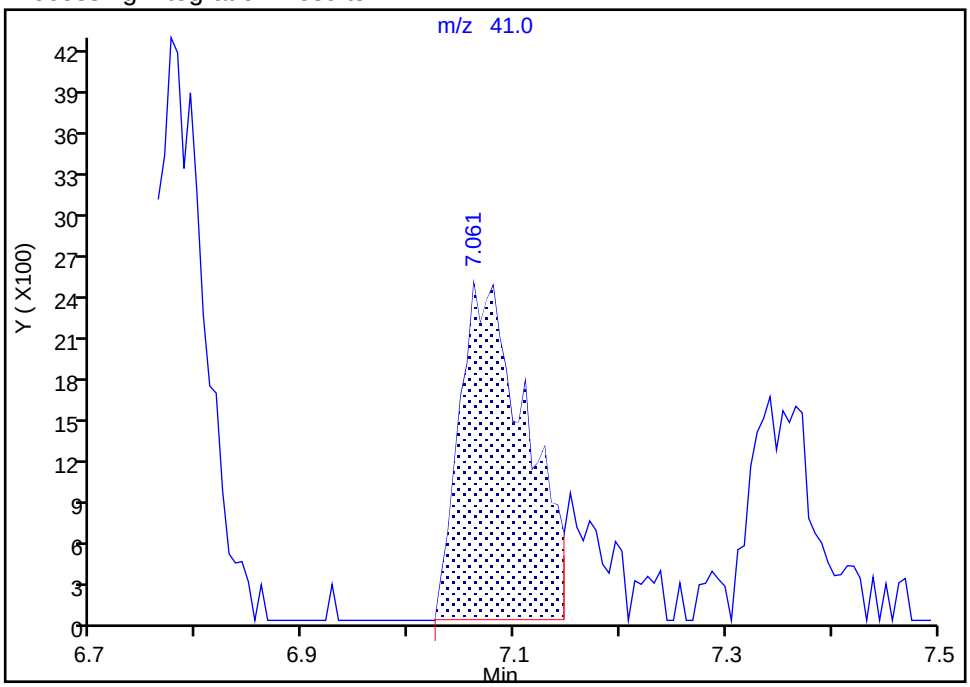
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X02.D				
Injection Date:	18-Jan-2023 10:40:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

58 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

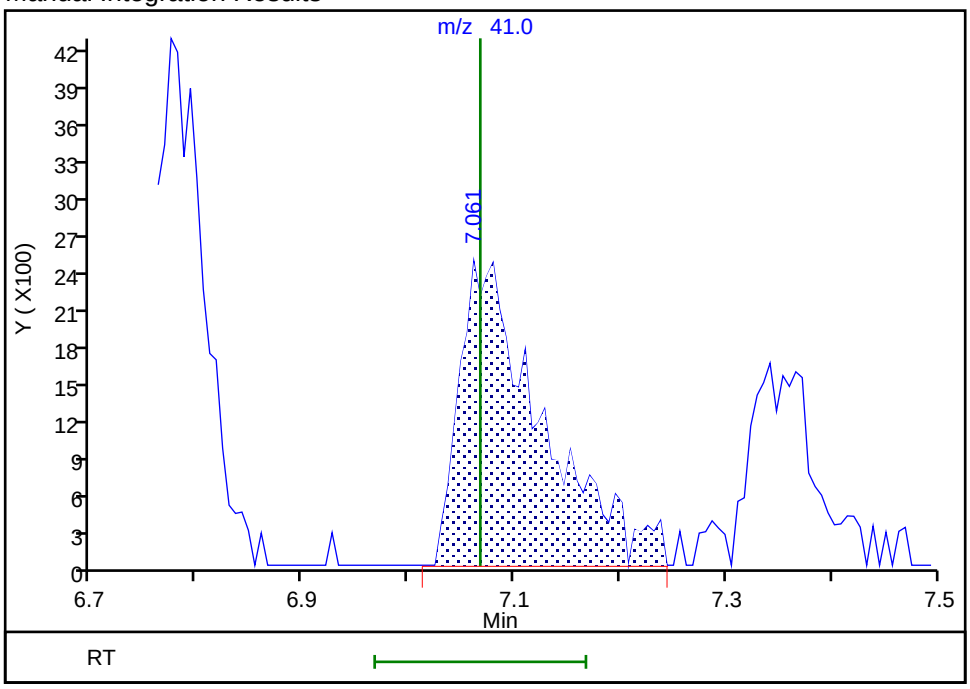
Processing Integration Results

RT: 7.06
Area: 10804
Amount: 10.000000
Amount Units: ug/l



Manual Integration Results

RT: 7.06
Area: 13343
Amount: 11.441611
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:08:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

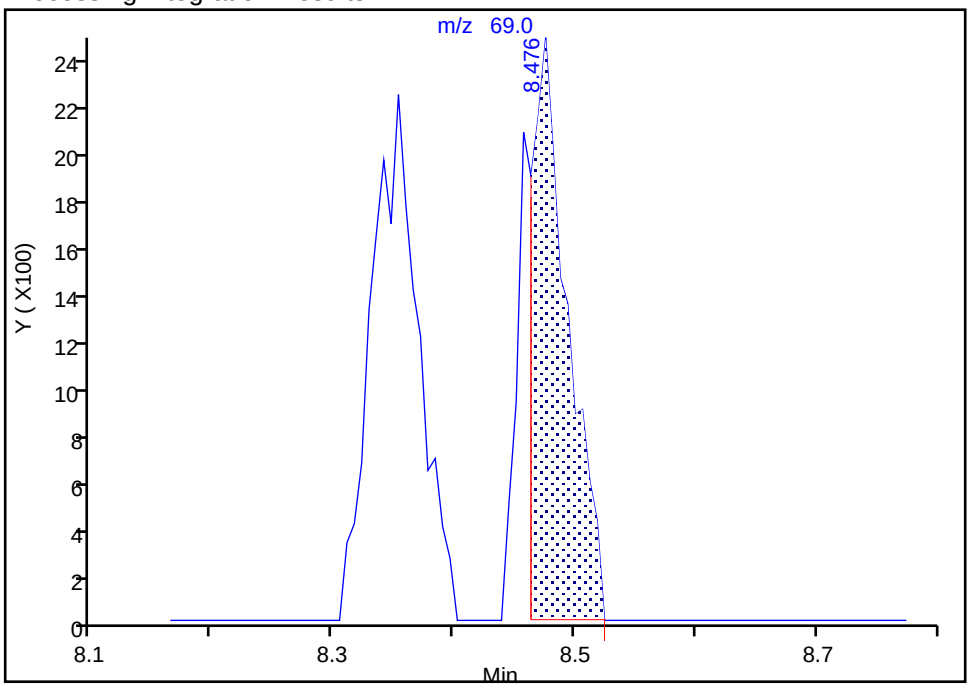
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X02.D				
Injection Date:	18-Jan-2023 10:40:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

72 Methyl methacrylate, CAS: 80-62-6

Signal: 1

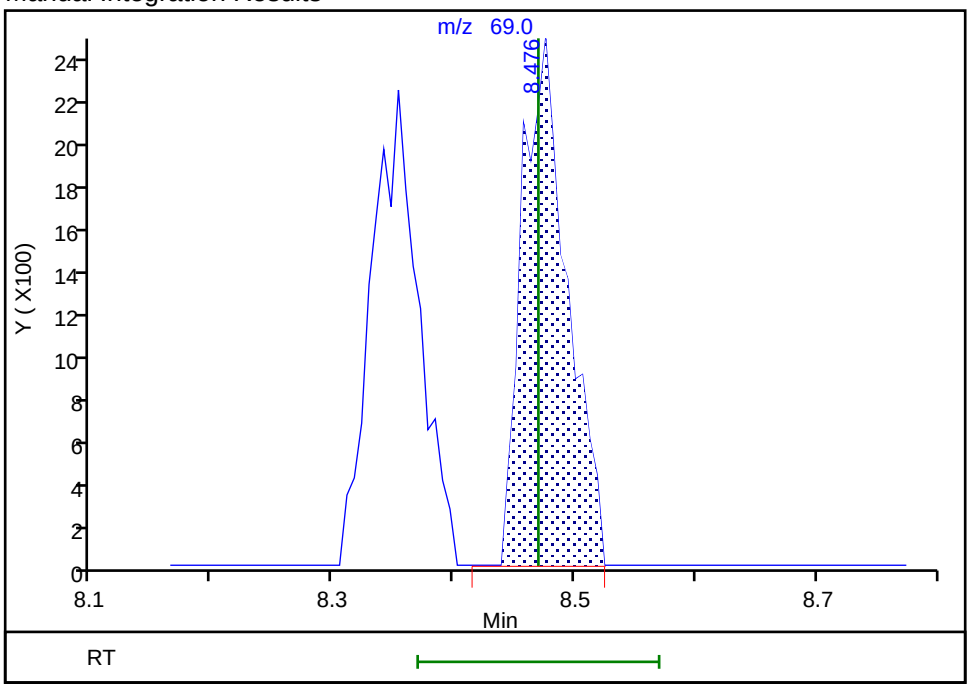
Processing Integration Results

RT: 8.48
Area: 5095
Amount: 0.200000
Amount Units: ug/l



Manual Integration Results

RT: 8.48
Area: 6361
Amount: 0.184414
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:08:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

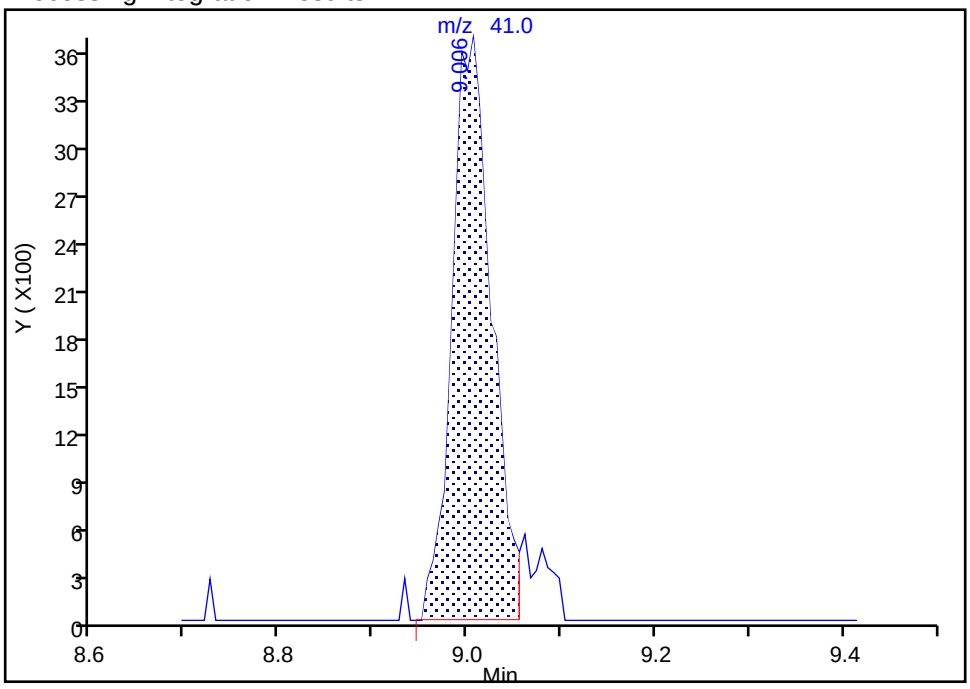
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X02.D				
Injection Date:	18-Jan-2023 10:40:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

77 2-Nitropropane, CAS: 79-46-9

Signal: 1

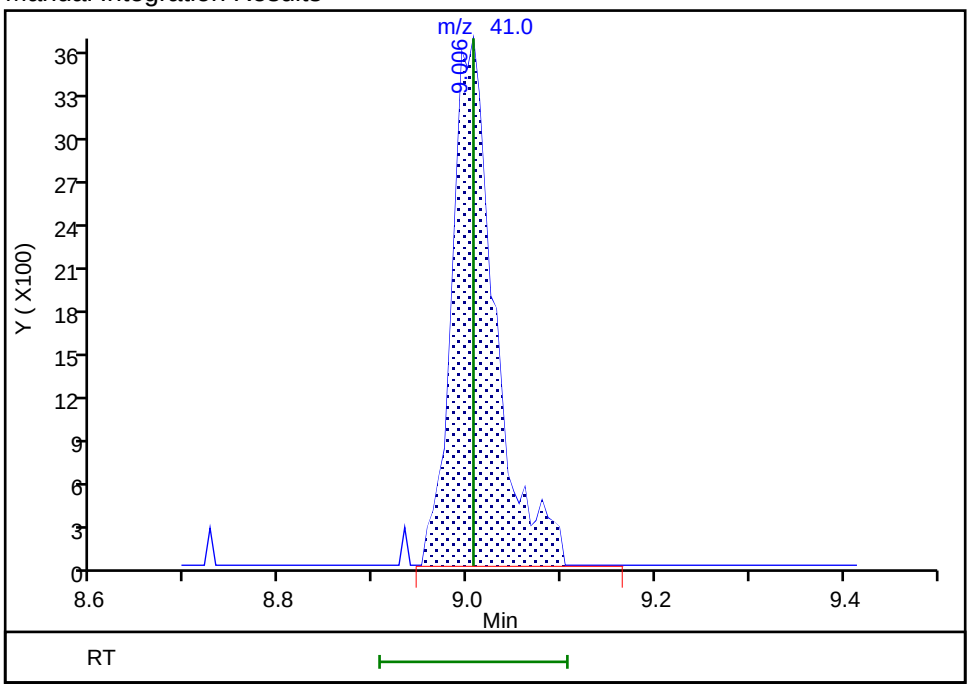
Processing Integration Results

RT: 9.01
Area: 10668
Amount: 1.000000
Amount Units: ug/l



Manual Integration Results

RT: 9.01
Area: 11567
Amount: 1.132086
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:08:36

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X03.D
Lims ID: IC std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 18-Jan-2023 11:02:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0075310-004
Misc. Info.: IC STD2
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jan-2023 15:00:24 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: DVW2 Date: 18-Jan-2023 11:31:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.892	1.898	-0.006	99	51596	0.5000	0.5138	
5 Chloromethane	50	2.087	2.093	-0.006	99	61268	0.5000	0.5266	
6 Vinyl chloride	62	2.197	2.203	-0.006	97	57561	0.5000	0.5196	
7 Butadiene	39	2.209	2.221	-0.012	93	53574	0.5000	0.4044	
9 Bromomethane	94	2.526	2.532	-0.006	91	38283	0.5000	0.5232	
10 Chloroethane	64	2.599	2.605	-0.006	98	33447	0.5000	0.5263	
11 Dichlorofluoromethane	67	2.837	2.843	-0.006	97	78629	0.5000	0.5329	
12 Trichlorofluoromethane	101	2.910	2.904	0.006	97	70985	0.5000	0.5079	
13 Ethyl ether	59	3.135	3.135	0.000	91	30233	0.5000	0.5085	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.221	3.227	-0.006	71	46072	0.5000	0.5183	
17 Acrolein	56	3.300	3.300	0.000	98	184909	25.0	23.8	
18 1,1-Dichloroethene	96	3.428	3.434	-0.006	98	35943	0.5000	0.5233	
20 Acetone	43	3.465	3.458	0.007	63	53151	5.00	5.44	M
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.471	3.477	-0.006	91	34178	0.5000	0.5190	
24 Isopropyl alcohol	45	3.611	3.611	0.000	30	15853	10.0	10.3	M
21 Iodomethane	142	3.617	3.617	0.000	99	59000	0.5000	0.5077	
22 Ethyl bromide	108	3.647	3.647	0.000	98	31396	0.5010	0.5184	
23 Carbon disulfide	76	3.715	3.715	0.000	99	105138	0.5000	0.5128	
25 Methyl acetate	43	3.867	3.861	0.006	20	18202	0.5000	0.5629	M
27 3-Chloro-1-propene	41	3.891	3.891	0.000	90	55395	0.5000	0.5219	
29 Methylene Chloride	84	4.074	4.074	0.000	91	40310	0.5000	0.5272	
* 30 t-Butyl alcohol-d10 (IS)	65	4.099	4.099	0.000	92	174574	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.208	4.202	0.006	97	45870	10.0	12.2	M
32 Acrylonitrile	53	4.410	4.403	0.007	97	16154	1.25	1.20	
33 Methyl tert-butyl ether	73	4.458	4.464	-0.006	95	93125	0.5000	0.4998	
34 trans-1,2-Dichloroethene	96	4.470	4.477	-0.007	99	40626	0.5000	0.5226	M
35 Hexane	57	4.903	4.909	-0.006	94	49229	0.5000	0.4990	
37 1,1-Dichloroethane	63	5.135	5.141	-0.006	95	69754	0.5000	0.5067	
38 Isopropyl ether	45	5.196	5.202	-0.006	95	118273	0.5000	0.4964	
39 2-Chloro-1,3-butadiene	53	5.257	5.245	0.012	92	52544	0.5000	0.4990	M

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.732	5.739	-0.007	96	110259	0.5000	0.4945	
41 2-Butanone (MEK)	43	5.940	5.940	0.000	100	97130	5.00	5.07	
42 cis-1,2-Dichloroethene	96	5.982	5.976	0.006	82	45403	0.5000	0.5284	
43 2,2-Dichloropropane	77	5.982	5.995	-0.013	89	57847	0.5000	0.5122	
45 Propionitrile	54	6.031	6.031	0.000	98	47744	10.0	10.4	M
S 47 1,2-Dichloroethene, Total	100				0			1.05	
48 Methacrylonitrile	67	6.245	6.251	-0.006	92	94074	5.00	4.81	
49 Chlorobromomethane	128	6.299	6.305	-0.006	91	18428	0.5000	0.4886	
50 Tetrahydrofuran	71	6.318	6.312	0.006	73	12688	2.50	2.34	
51 Chloroform	83	6.458	6.464	-0.006	93	69801	0.5000	0.5049	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.677	0.000	94	712742	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.690	6.690	0.000	39	61855	0.5000	0.5193	
54 Cyclohexane	56	6.781	6.781	0.000	90	60823	0.5000	0.5016	
56 Carbon tetrachloride	117	6.897	6.897	0.000	93	53736	0.5000	0.5129	
57 1,1-Dichloropropene	75	6.897	6.903	-0.006	94	53545	0.5000	0.5065	
58 Isobutyl alcohol	41	7.068	7.068	0.000	90	32562	25.0	27.2	M
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.135	-0.007	83	149135	10.0	10.2	
60 Benzene	78	7.165	7.165	0.000	95	164322	0.5000	0.5143	
61 1,2-Dichloroethane	62	7.226	7.238	-0.012	97	46274	0.5000	0.5148	
63 Tert-amyl methyl ether	73	7.348	7.354	-0.006	98	100080	0.5000	0.4900	
* 64 Fluorobenzene (IS)	96	7.567	7.574	-0.007	99	2950829	10.0	10.0	
65 n-Heptane	43	7.586	7.586	0.000	39	54610	0.5000	0.4884	
67 n-Butanol	56	7.964	7.952	0.012	90	44659	43.8	43.0	
68 Trichloroethene	95	8.049	8.049	0.000	98	44632	0.5000	0.5172	
69 Methylcyclohexane	83	8.354	8.354	0.000	91	64891	0.5000	0.4911	
70 1,2-Dichloropropane	63	8.378	8.384	-0.006	77	42238	0.5000	0.5080	
71 2-ethoxy-2-methyl butane	87	8.384	8.390	-0.006	93	57323	0.5000	0.4889	
72 Methyl methacrylate	69	8.470	8.470	0.000	91	16858	0.5000	0.4535	
74 1,4-Dioxane	88	8.470	8.476	-0.006	31	4723	25.0	23.9	M
73 Dibromomethane	93	8.482	8.488	-0.006	96	20069	0.5000	0.5024	
76 Dichlorobromomethane	83	8.726	8.726	0.000	99	49023	0.5000	0.4924	
77 2-Nitropropane	41	9.006	9.006	0.000	97	25997	2.50	2.36	
79 1-Bromo-2-chloroethane	63	9.122	9.122	0.000	99	43902	0.5000	0.5081	
81 cis-1,3-Dichloropropene	75	9.281	9.281	0.000	96	58465	0.5000	0.4755	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	97	248084	5.00	4.75	
$ 83 Toluene-d8 (Surr)	98	9.598	9.598	0.000	94	2958642	10.0	10.0	
84 Toluene	92	9.671	9.677	-0.006	97	107220	0.5000	0.5167	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	93	51967	0.5000	0.4838	
104 Ethyl methacrylate	69	10.006	10.006	0.000	88	34988	0.5000	0.4600	
S 105 1,3-Dichloropropene, Total	100				0			0.9593	
106 1,1,2-Trichloroethane	97	10.146	10.140	0.006	87	32709	0.5000	0.5382	
107 Tetrachloroethene	166	10.232	10.232	0.000	97	48808	0.5000	0.5000	
108 1,3-Dichloropropane	76	10.305	10.305	0.000	91	51959	0.5000	0.5137	
109 2-Hexanone	43	10.366	10.366	0.000	97	169245	5.00	4.53	
111 Chlorodibromomethane	129	10.524	10.524	0.000	89	34334	0.5000	0.4777	
112 Ethylene Dibromide	107	10.634	10.628	0.006	97	28122	0.5000	0.5018	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	86	2230288	10.0	10.0	
114 1-Chlorohexane	91	11.079	11.079	0.000	98	60736	0.5000	0.5143	
115 Chlorobenzene	112	11.091	11.091	0.000	95	123905	0.5000	0.5053	
117 1,1,1,2-Tetrachloroethane	131	11.176	11.176	0.000	94	40330	0.5000	0.4940	
116 Ethylbenzene	91	11.183	11.183	0.000	98	199954	0.5000	0.4988	
S 118 Xylenes, Total	106				0			1.49	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 m-Xylene & p-Xylene	106	11.298	11.298	0.000	90	154879	1.00	1.00	
120 o-Xylene	106	11.628	11.628	0.000	96	73683	0.5000	0.4910	
121 Styrene	104	11.640	11.640	0.000	95	114568	0.5000	0.4753	
122 Bromoform	173	11.798	11.792	0.006	96	20714	0.5000	0.4714	
123 Isopropylbenzene	105	11.926	11.926	0.000	96	191707	0.5000	0.4939	
$ 126 4-Bromofluorobenzene (Surr)	95	12.067	12.067	0.000	92	1082761	10.0	9.98	
127 1,1,2,2-Tetrachloroethane	83	12.170	12.170	0.000	94	39694	0.5000	0.5076	
128 Bromobenzene	156	12.182	12.182	0.000	94	51433	0.5000	0.5044	
129 trans-1,4-Dichloro-2-butene	53	12.195	12.195	0.000	94	96020	5.00	4.57	
130 1,2,3-Trichloropropane	110	12.219	12.219	0.000	81	10463	0.5000	0.5087	
131 N-Propylbenzene	91	12.256	12.256	0.000	99	245344	0.5000	0.5036	
132 2-Chlorotoluene	126	12.329	12.329	0.000	97	49306	0.5000	0.4955	
133 1,3,5-Trimethylbenzene	105	12.390	12.390	0.000	94	171044	0.5000	0.4968	
134 4-Chlorotoluene	126	12.420	12.420	0.000	98	51895	0.5000	0.4987	
135 tert-Butylbenzene	134	12.627	12.627	0.000	93	36139	0.5000	0.4781	
136 Pentachloroethane	167	12.658	12.664	-0.006	79	30888	0.5000	0.4921	
137 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	97	171410	0.5000	0.4801	
138 sec-Butylbenzene	105	12.792	12.792	0.000	94	215075	0.5000	0.4886	
139 1,3-Dichlorobenzene	146	12.890	12.890	0.000	98	106886	0.5000	0.5063	
140 4-Isopropyltoluene	119	12.902	12.896	0.006	97	188144	0.5000	0.4843	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	94	1314073	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.963	12.963	0.000	95	108961	0.5000	0.5200	
143 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	98	82494	0.5000	0.5019	
144 Benzyl chloride	126	13.036	13.042	-0.006	98	14005	0.5000	0.4604	
145 p-Diethylbenzene	119	13.097	13.097	0.000	92	114684	0.5000	0.4897	
146 n-Butylbenzene	92	13.188	13.188	0.000	97	99876	0.5000	0.4952	
147 1,2-Dichlorobenzene	146	13.225	13.219	0.006	98	100901	0.5000	0.5117	
149 1,2-Dibromo-3-Chloropropane	155	13.761	13.761	0.000	88	5309	0.5000	0.5015	
150 1,3,5-Trichlorobenzene	180	13.883	13.883	0.000	97	87853	0.5000	0.5130	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	75247	0.5000	0.5028	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	95	37544	0.5000	0.4885	
153 Naphthalene	128	14.481	14.481	0.000	97	120536	0.5000	0.4929	
154 1,2,3-Trichlorobenzene	180	14.627	14.621	0.006	96	68681	0.5000	0.5283	
155 2-Methylnaphthalene	142	15.231	15.224	0.007	91	67245	0.5000	0.4661	
166 Pentane	43	2.928	2.934	-0.006	96	56272	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00065	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00132	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00071	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00037	Amount Added:	1.00	Units: uL	Run Reagent

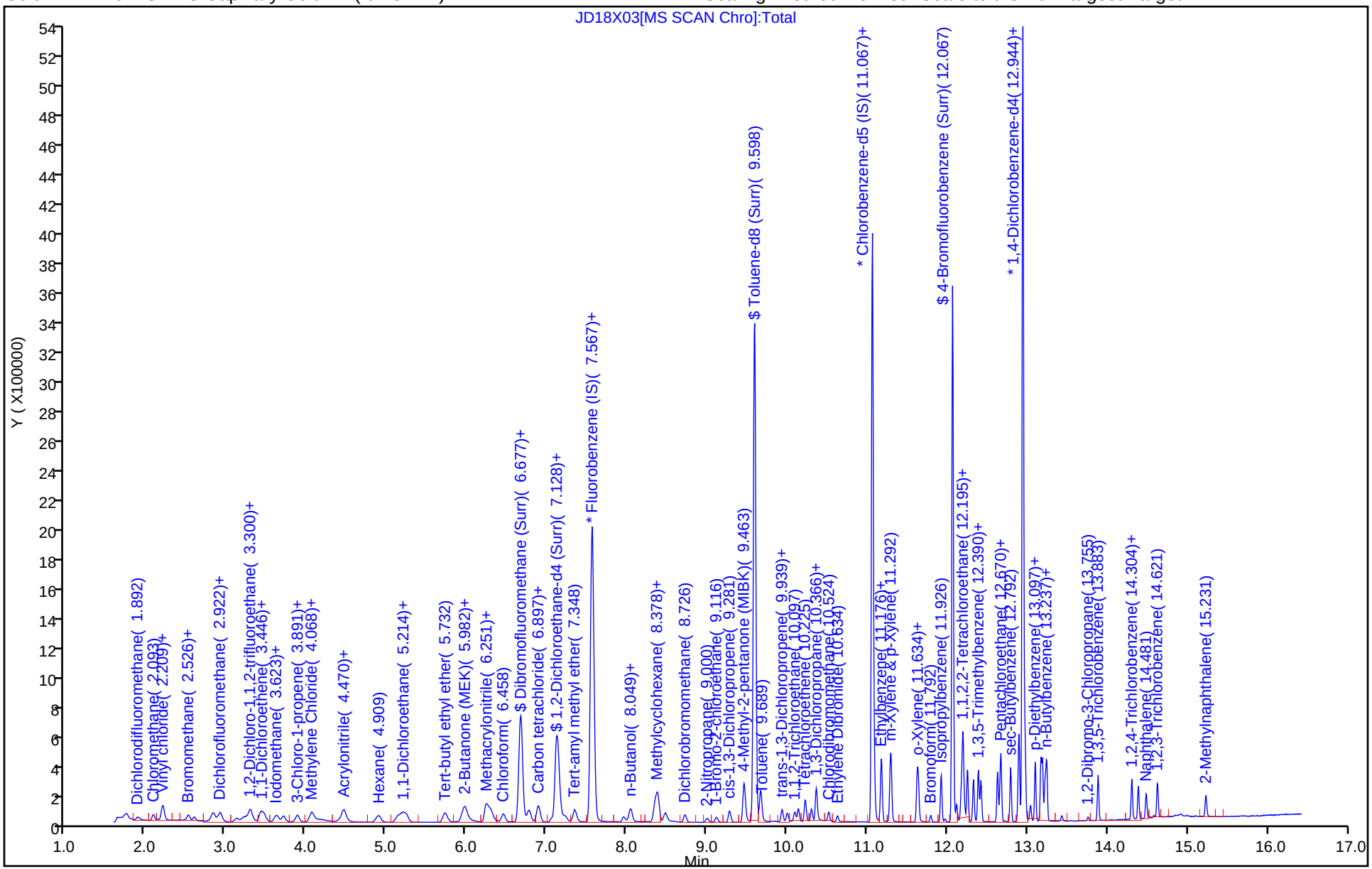
Report Date: 18-Jan-2023 15:00:25 Chrom Revision: 2.3 09-Jan-2023 13:34:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X03.D

Injection Date:	18-Jan-2023 11:02:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std2			Worklist Smp#:	4
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSV_16334_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: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

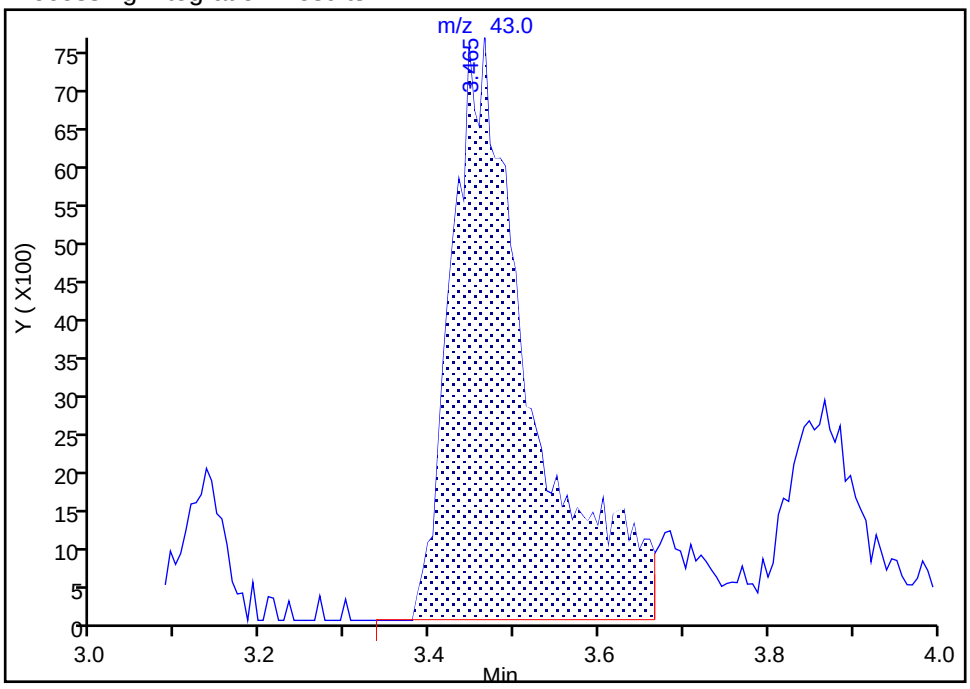
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X03.D				
Injection Date:	18-Jan-2023 11:02:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Acetone, CAS: 67-64-1

Signal: 1

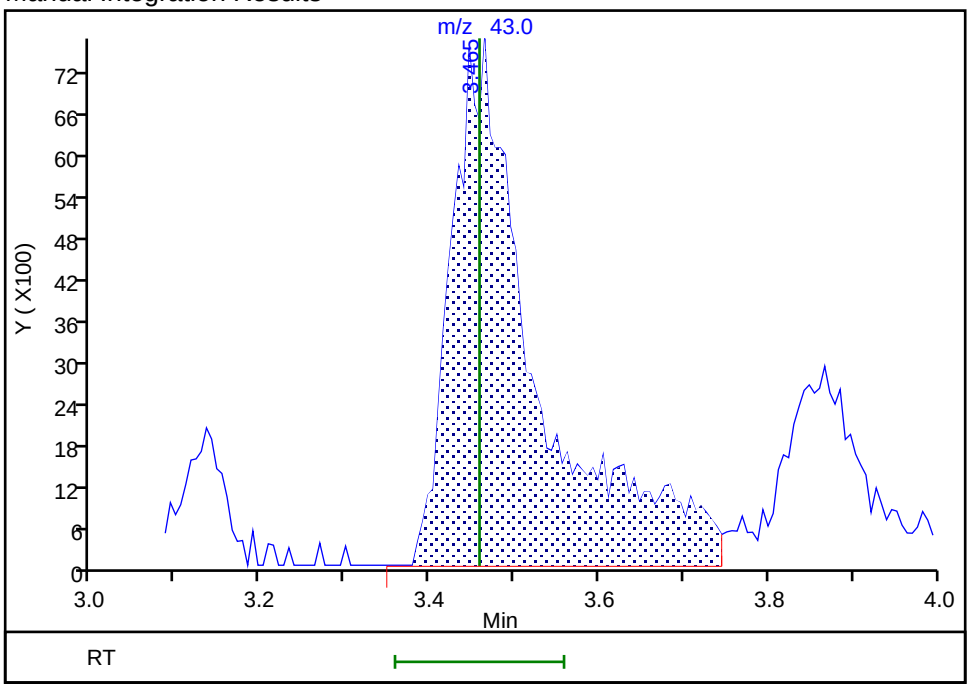
Processing Integration Results

RT: 3.46
Area: 49169
Amount: 4.684355
Amount Units: ug/l



Manual Integration Results

RT: 3.46
Area: 53151
Amount: 5.438613
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:28:29
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

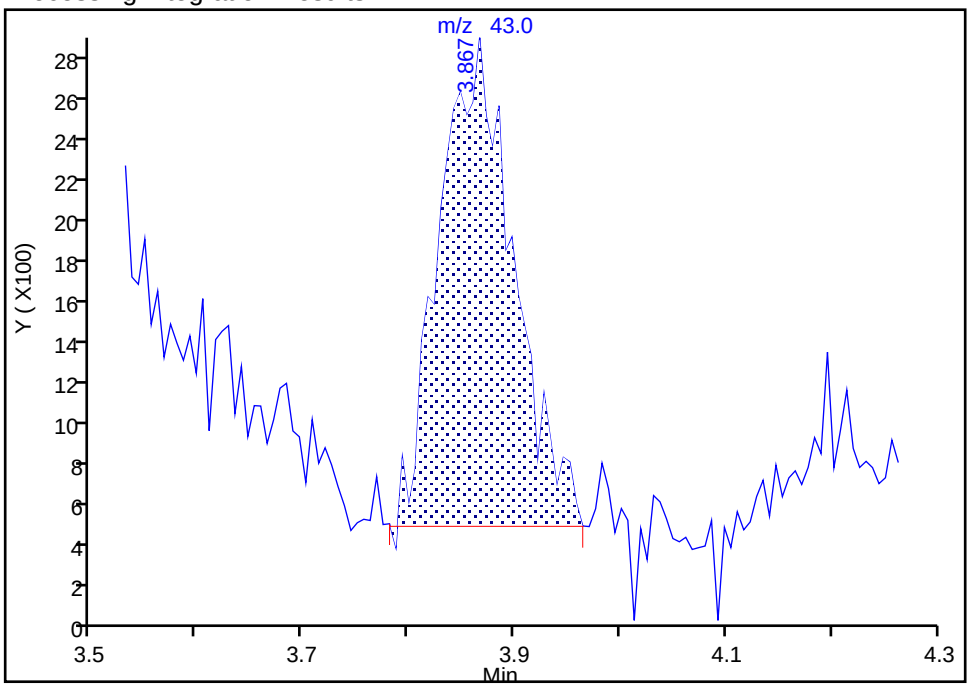
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X03.D				
Injection Date:	18-Jan-2023 11:02:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Methyl acetate, CAS: 79-20-9

Signal: 1

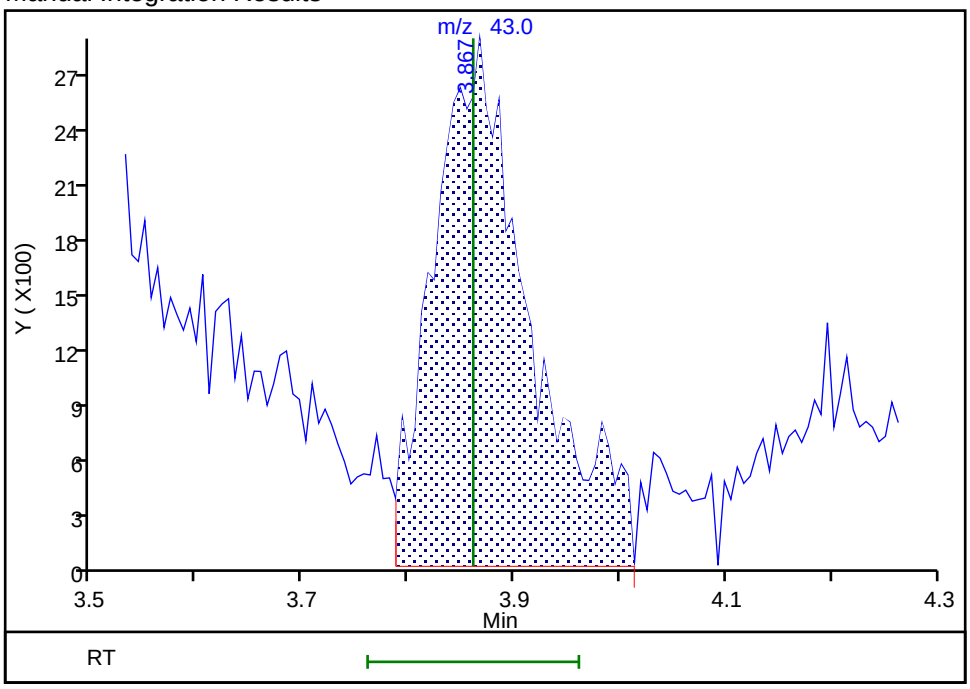
Processing Integration Results

RT: 3.87
Area: 11672
Amount: 0.383990
Amount Units: ug/l



Manual Integration Results

RT: 3.87
Area: 18202
Amount: 0.562889
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:29:05
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

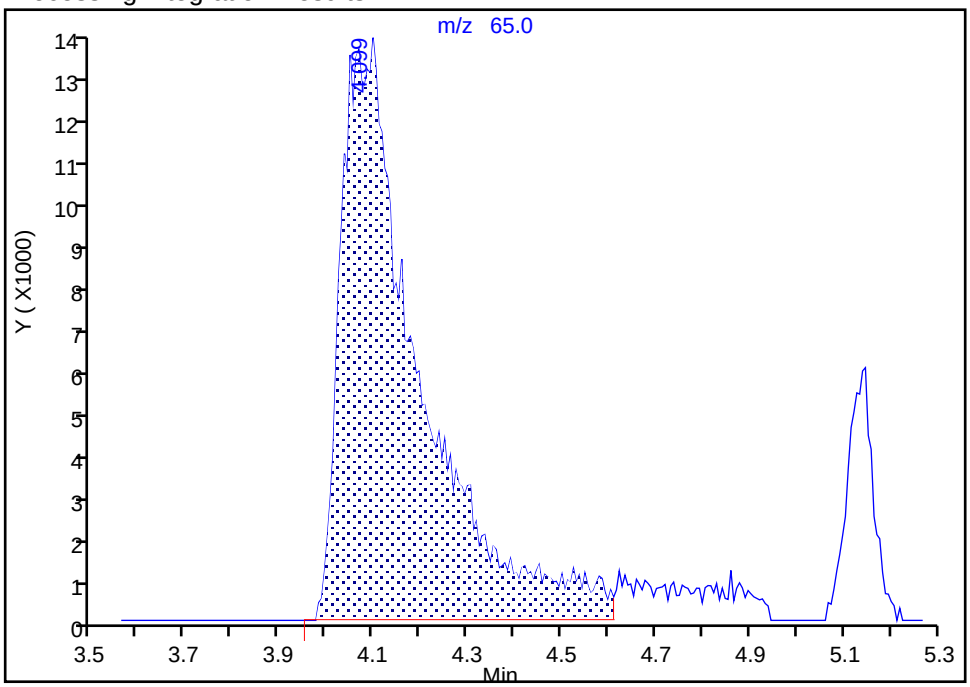
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X03.D				
Injection Date:	18-Jan-2023 11:02:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

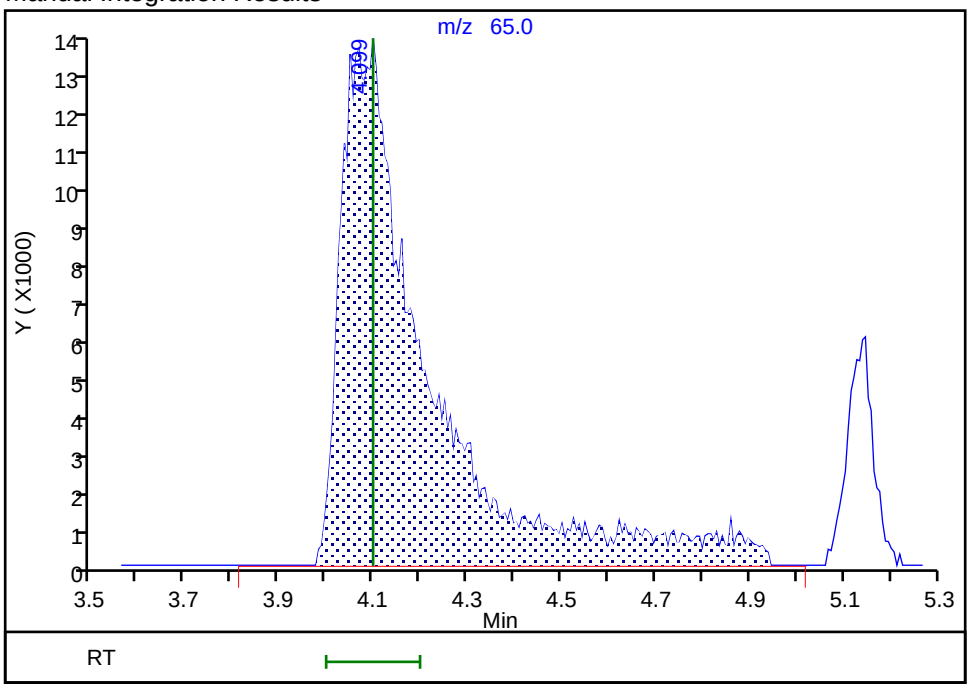
Processing Integration Results

RT: 4.10
Area: 160340
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.10
Area: 174574
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:29:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

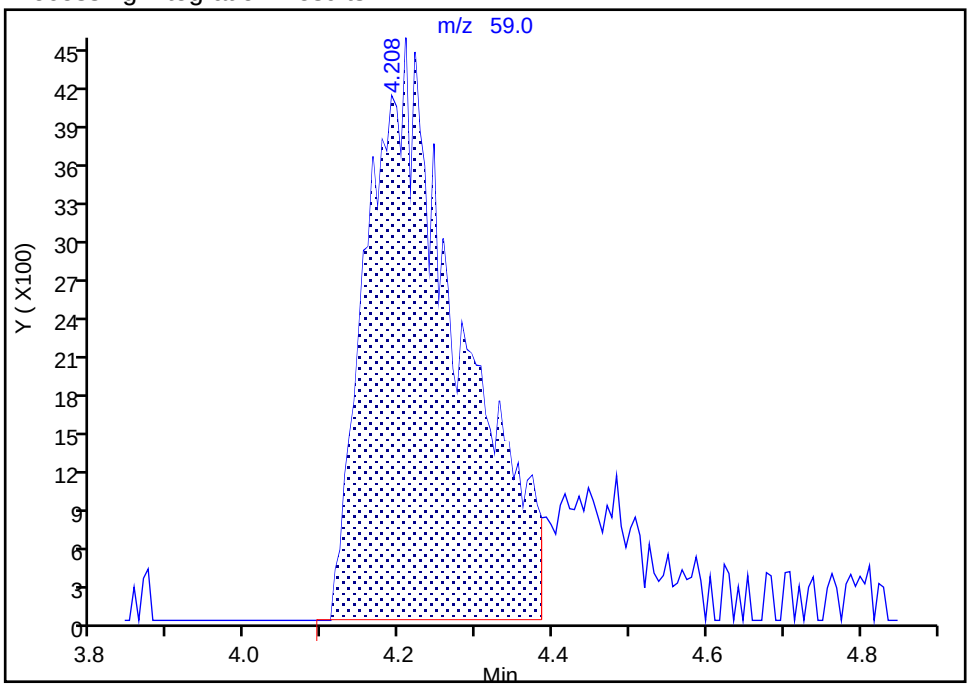
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X03.D				
Injection Date:	18-Jan-2023 11:02:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

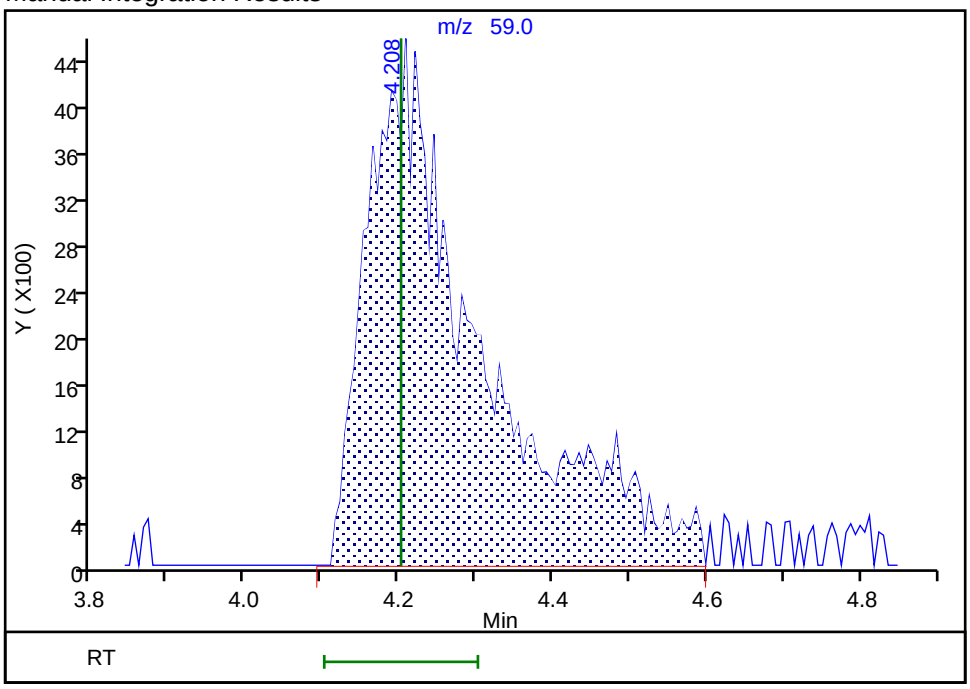
Processing Integration Results

RT: 4.21
Area: 37739
Amount: 8.748730
Amount Units: ug/l



Manual Integration Results

RT: 4.21
Area: 45870
Amount: 12.186030
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:29:30

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

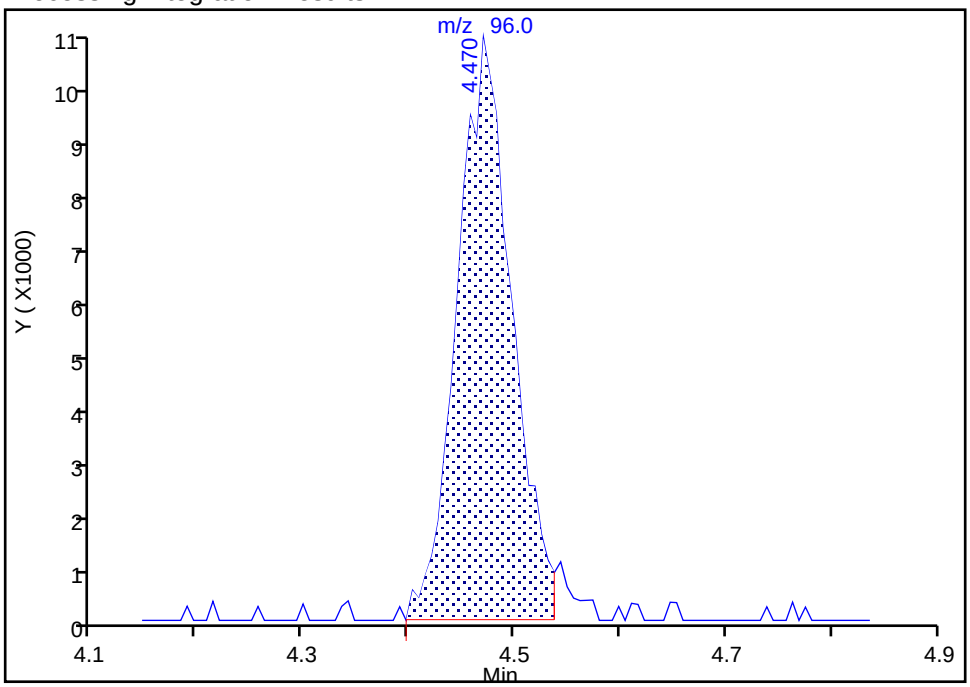
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X03.D				
Injection Date:	18-Jan-2023 11:02:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

Signal: 1

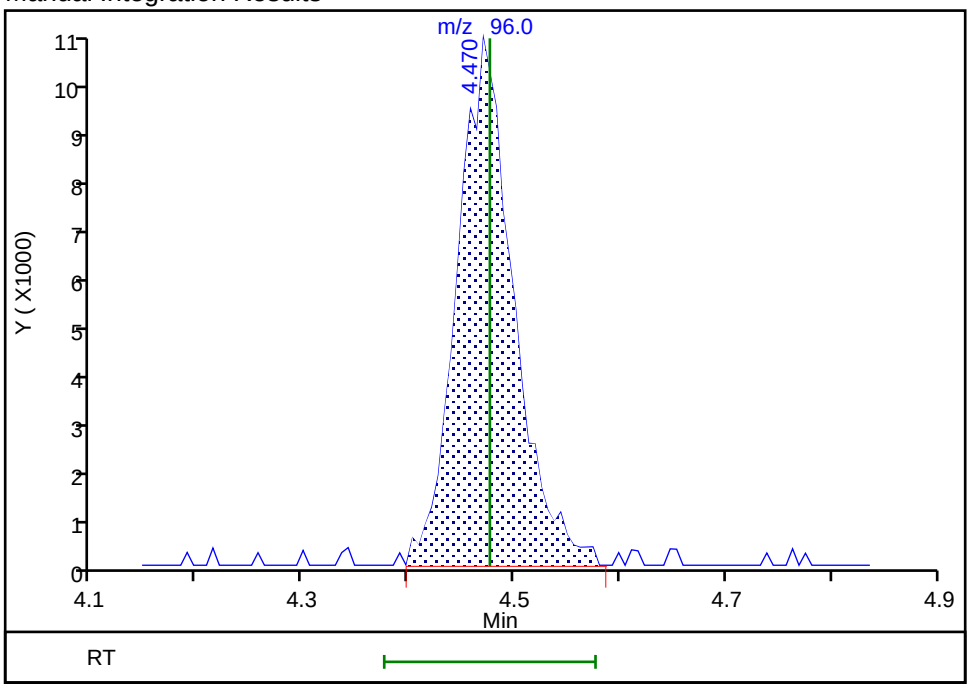
Processing Integration Results

RT: 4.47
Area: 39425
Amount: 0.493608
Amount Units: ug/l



Manual Integration Results

RT: 4.47
Area: 40626
Amount: 0.522559
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:29:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

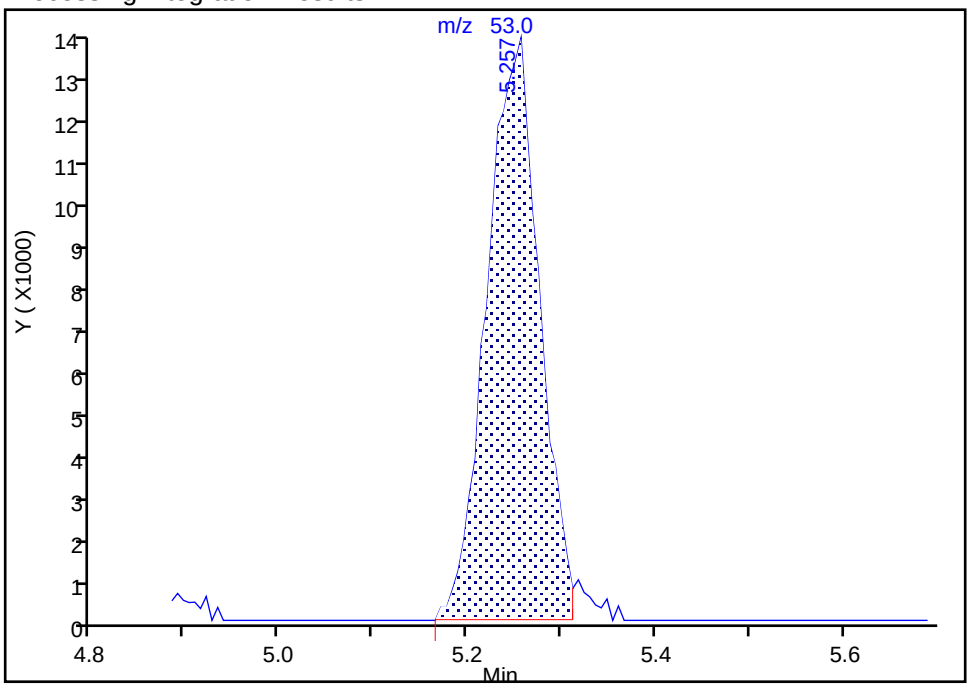
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X03.D				
Injection Date:	18-Jan-2023 11:02:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

39 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

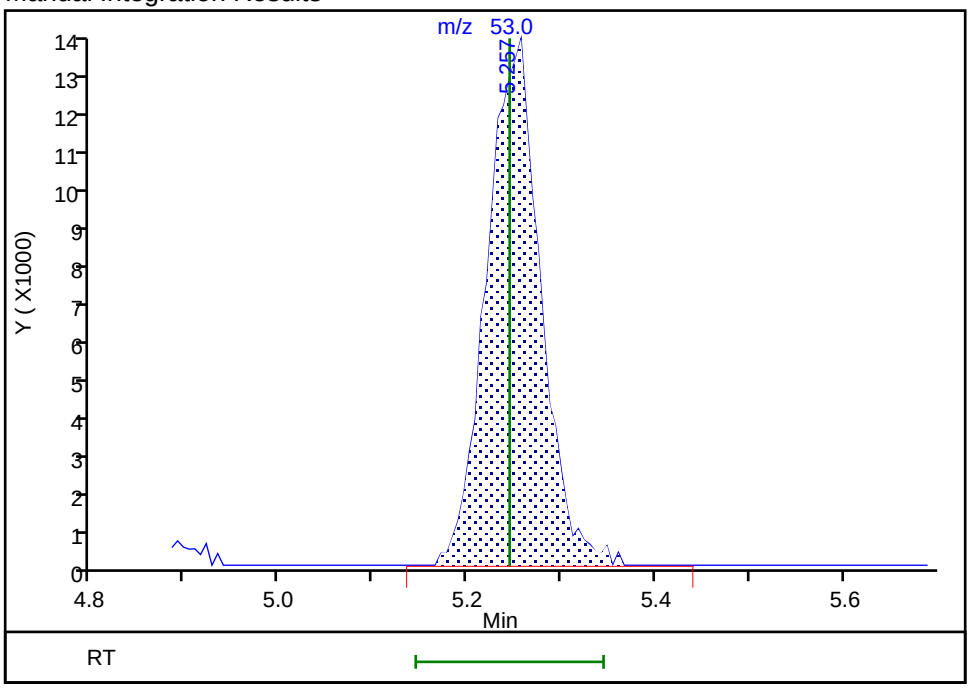
Processing Integration Results

RT: 5.26
Area: 51257
Amount: 0.491131
Amount Units: ug/l



Manual Integration Results

RT: 5.26
Area: 52544
Amount: 0.499019
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:29:48

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

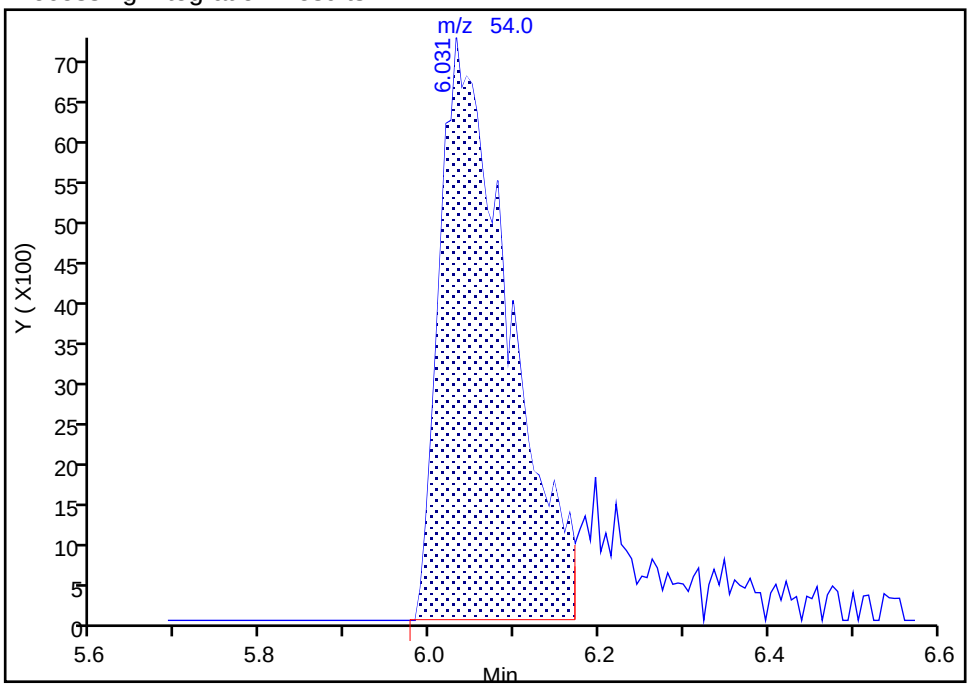
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X03.D				
Injection Date:	18-Jan-2023 11:02:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

45 Propionitrile, CAS: 107-12-0

Signal: 1

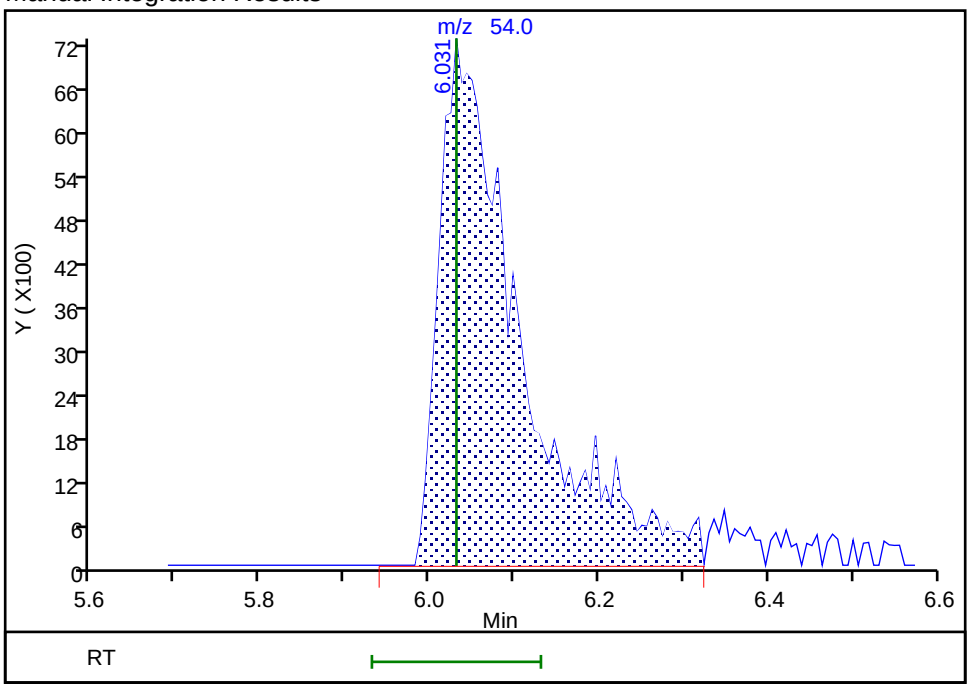
Processing Integration Results

RT: 6.03
Area: 40888
Amount: 9.351493
Amount Units: ug/l



Manual Integration Results

RT: 6.03
Area: 47744
Amount: 10.403231
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:30:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

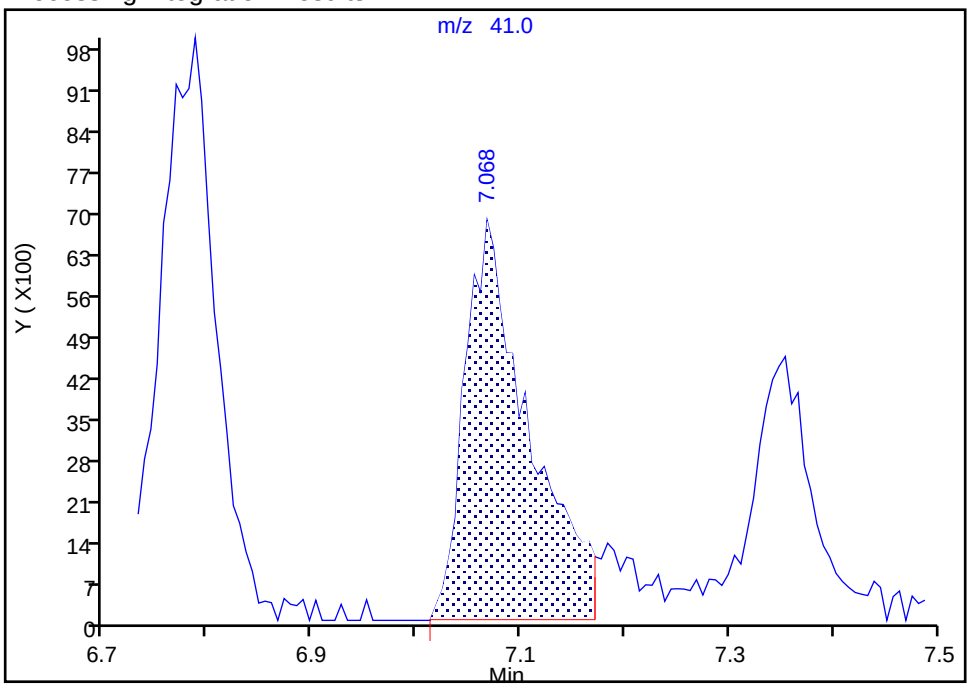
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X03.D				
Injection Date:	18-Jan-2023 11:02:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

58 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

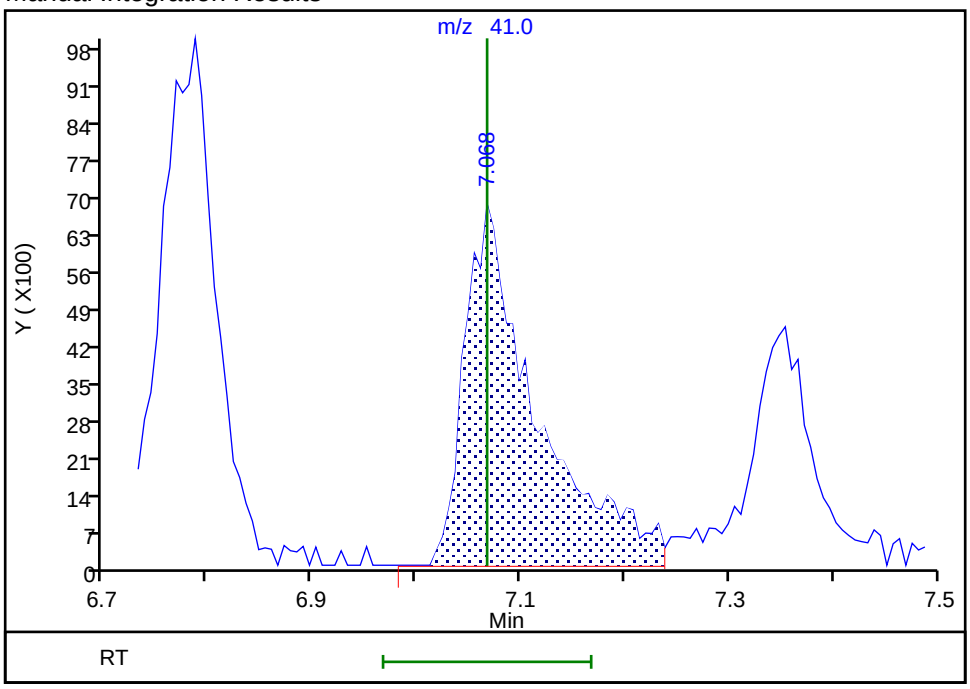
Processing Integration Results

RT: 7.07
Area: 29174
Amount: 22.996919
Amount Units: ug/l



Manual Integration Results

RT: 7.07
Area: 32562
Amount: 27.189337
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:30:25
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

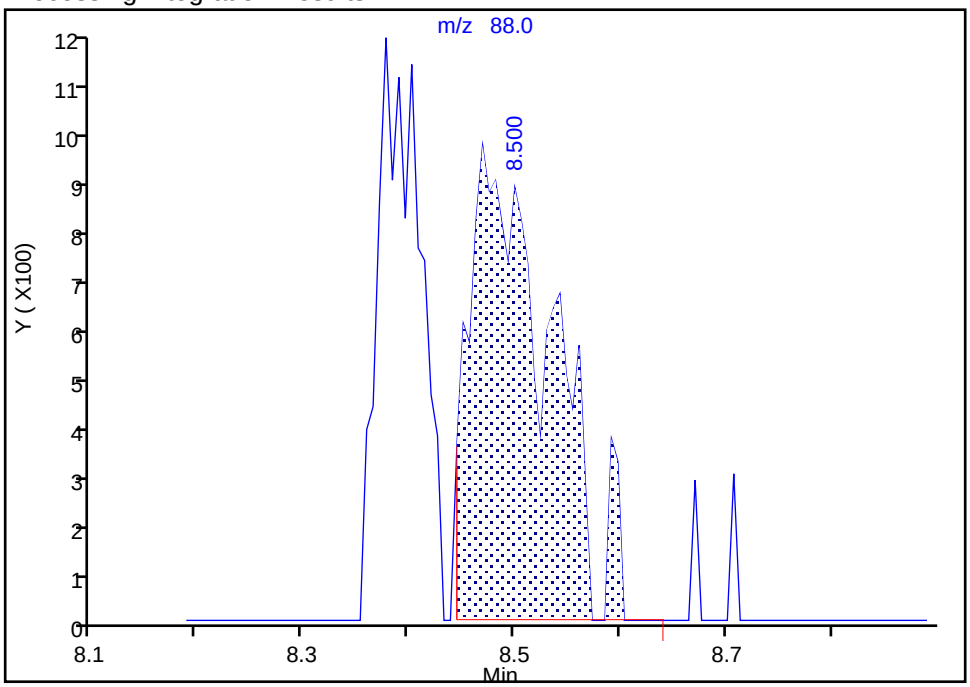
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X03.D				
Injection Date:	18-Jan-2023 11:02:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

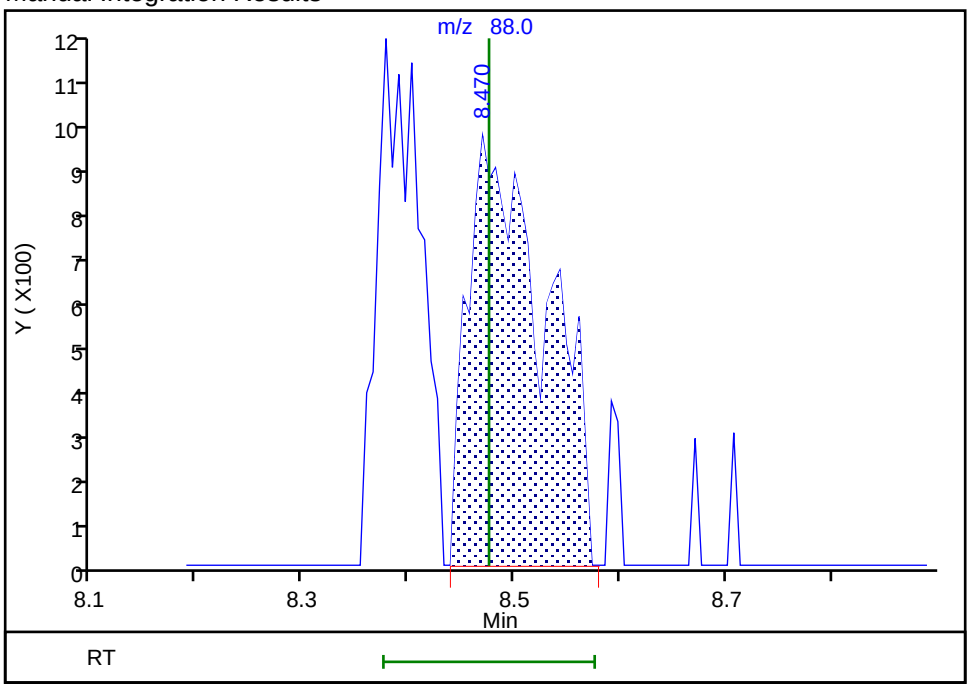
Processing Integration Results

RT: 8.50
Area: 4965
Amount: 31.784395
Amount Units: ug/l



Manual Integration Results

RT: 8.47
Area: 4723
Amount: 23.879125
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:30:46

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X04.D
Lims ID: IC std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Jan-2023 11:24:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0075310-005
Misc. Info.: IC STD3
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jan-2023 15:00:33 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: DVW2 Date: 18-Jan-2023 11:51:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.898	1.898	0.000	99	107746	1.00	1.09	M
5 Chloromethane	50	2.093	2.093	0.000	99	124906	1.00	1.09	
6 Vinyl chloride	62	2.203	2.203	0.000	98	115007	1.00	1.05	
7 Butadiene	39	2.215	2.221	-0.006	91	104974	1.00	1.02	M
9 Bromomethane	94	2.526	2.532	-0.006	91	76234	1.00	1.06	
10 Chloroethane	64	2.605	2.605	0.000	100	68317	1.00	1.09	
11 Dichlorofluoromethane	67	2.837	2.843	-0.006	97	156798	1.00	1.08	
12 Trichlorofluoromethane	101	2.904	2.904	0.000	96	150391	1.00	1.09	
13 Ethyl ether	59	3.135	3.135	0.000	92	62149	1.00	1.06	M
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.221	3.227	-0.006	92	94647	1.00	1.08	
17 Acrolein	56	3.300	3.300	0.000	100	372877	50.0	51.3	
18 1,1-Dichloroethene	96	3.428	3.434	-0.006	98	69113	1.00	1.02	
20 Acetone	43	3.471	3.458	0.013	56	97219	10.0	10.6	M
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.465	3.477	-0.012	91	68494	1.00	1.05	
24 Isopropyl alcohol	45	3.611	3.611	0.000	31	34447	20.0	22.8	
21 Iodomethane	142	3.611	3.617	-0.006	99	117793	1.00	1.03	
22 Ethyl bromide	108	3.647	3.647	0.000	98	63940	1.00	1.07	
23 Carbon disulfide	76	3.715	3.715	0.000	99	202262	1.00	1.00	
25 Methyl acetate	43	3.861	3.861	0.000	98	27011	1.00	0.99	M
27 3-Chloro-1-propene	41	3.891	3.891	0.000	92	108372	1.00	1.04	
29 Methylene Chloride	84	4.068	4.074	-0.006	92	77782	1.00	1.03	
* 30 t-Butyl alcohol-d10 (IS)	65	4.099	4.099	0.000	91	163153	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.190	4.202	-0.012	99	72794	20.0	20.7	
32 Acrylonitrile	53	4.428	4.403	0.025	97	34439	2.50	2.73	
33 Methyl tert-butyl ether	73	4.464	4.464	0.000	96	191848	1.00	1.04	
34 trans-1,2-Dichloroethene	96	4.471	4.477	-0.007	98	78877	1.00	1.03	
35 Hexane	57	4.897	4.909	-0.012	94	99134	1.00	1.02	
37 1,1-Dichloroethane	63	5.141	5.141	0.000	96	141810	1.00	1.04	
38 Isopropyl ether	45	5.202	5.202	0.000	94	240835	1.00	1.02	
39 2-Chloro-1,3-butadiene	53	5.251	5.245	0.006	92	105358	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 Tert-butyl ethyl ether	59	5.732	5.739	-0.007	97	224460	1.00	1.02	
41 2-Butanone (MEK)	43	5.940	5.940	0.000	100	191210	10.0	10.7	
42 cis-1,2-Dichloroethene	96	5.976	5.976	0.000	82	86031	1.00	1.01	
43 2,2-Dichloropropane	77	5.989	5.995	-0.007	74	115912	1.00	1.04	
45 Propionitrile	54	6.025	6.031	-0.006	98	88907	20.0	20.7	
S 47 1,2-Dichloroethene, Total	100				0			2.04	
48 Methacrylonitrile	67	6.251	6.251	0.000	92	191879	10.0	10.5	
49 Chlorobromomethane	128	6.306	6.305	0.001	89	38483	1.00	1.03	
50 Tetrahydrofuran	71	6.324	6.312	0.012	74	26711	5.00	5.28	
51 Chloroform	83	6.464	6.464	0.000	93	141660	1.00	1.04	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.677	0.000	94	699242	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.683	6.690	-0.007	97	122629	1.00	1.04	
54 Cyclohexane	56	6.781	6.781	0.000	91	121701	1.00	1.02	
56 Carbon tetrachloride	117	6.897	6.897	0.000	93	106091	1.00	1.03	
57 1,1-Dichloropropene	75	6.897	6.903	-0.006	97	107639	1.00	1.03	
58 Isobutyl alcohol	41	7.068	7.068	0.000	93	62319	50.0	52.8	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.129	7.135	-0.006	68	147959	10.0	10.2	
60 Benzene	78	7.159	7.165	-0.006	95	324854	1.00	1.03	
61 1,2-Dichloroethane	62	7.232	7.238	-0.006	97	89947	1.00	1.01	
63 Tert-amyl methyl ether	73	7.354	7.354	0.000	98	205030	1.00	1.02	
* 64 Fluorobenzene (IS)	96	7.567	7.574	-0.007	99	2910805	10.0	10.0	
65 n-Heptane	43	7.586	7.586	0.000	91	114488	1.00	1.04	
67 n-Butanol	56	7.958	7.952	0.006	90	87212	87.5	89.9	
68 Trichloroethene	95	8.049	8.049	0.000	98	86251	1.00	1.01	
69 Methylcyclohexane	83	8.348	8.354	-0.006	94	130189	1.00	1.00	
70 1,2-Dichloropropane	63	8.378	8.384	-0.006	95	85362	1.00	1.04	
71 2-ethoxy-2-methyl butane	87	8.390	8.390	0.000	92	117653	1.00	1.02	
72 Methyl methacrylate	69	8.470	8.470	0.000	87	36468	1.00	1.05	
74 1,4-Dioxane	88	8.476	8.476	0.000	31	10823	50.0	57.3	M
73 Dibromomethane	93	8.488	8.488	0.000	95	41574	1.00	1.06	
76 Dichlorobromomethane	83	8.726	8.726	0.000	99	99663	1.00	1.01	
77 2-Nitropropane	41	9.006	9.006	0.000	97	52535	5.00	5.10	
79 1-Bromo-2-chloroethane	63	9.116	9.122	-0.006	98	87494	1.00	1.03	
81 cis-1,3-Dichloropropene	75	9.281	9.281	0.001	96	121165	1.00	1.00	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	97	514076	10.0	10.5	
$ 83 Toluene-d8 (Surr)	98	9.598	9.598	0.000	94	2928238	10.0	10.1	
84 Toluene	92	9.671	9.677	-0.006	98	211976	1.00	1.03	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	94	107819	1.00	1.02	
104 Ethyl methacrylate	69	10.006	10.006	0.000	90	71136	1.00	0.9465	
S 105 1,3-Dichloropropene, Total	100				0			2.01	
106 1,1,2-Trichloroethane	97	10.140	10.140	0.000	90	63481	1.00	1.06	
107 Tetrachloroethene	166	10.232	10.232	0.000	98	100740	1.00	1.04	
108 1,3-Dichloropropane	76	10.305	10.305	0.000	91	104991	1.00	1.05	
109 2-Hexanone	43	10.366	10.366	0.000	97	364345	10.0	10.4	
111 Chlorodibromomethane	129	10.524	10.524	0.000	89	72293	1.00	1.02	
112 Ethylene Dibromide	107	10.628	10.628	0.000	99	57095	1.00	1.03	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	86	2203563	10.0	10.0	
114 1-Chlorohexane	91	11.079	11.079	0.000	97	116109	1.00	1.00	
115 Chlorobenzene	112	11.091	11.091	0.000	95	250602	1.00	1.03	
117 1,1,1,2-Tetrachloroethane	131	11.177	11.176	0.000	94	81409	1.00	1.01	
116 Ethylbenzene	91	11.183	11.183	0.000	98	406069	1.00	1.03	
S 118 Xylenes, Total	106				0			3.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 m-Xylene & p-Xylene	106	11.298	11.298	0.000	89	314022	2.00	2.05	
120 o-Xylene	106	11.622	11.628	-0.006	96	152111	1.00	1.03	
121 Styrene	104	11.640	11.640	0.000	94	234705	1.00	0.9855	
122 Bromoform	173	11.792	11.792	0.000	96	42633	1.00	0.9821	
123 Isopropylbenzene	105	11.926	11.926	0.000	96	393155	1.00	1.03	
$ 126 4-Bromofluorobenzene (Surr)	95	12.067	12.067	0.000	92	1072013	10.0	10.0	
127 1,1,2,2-Tetrachloroethane	83	12.170	12.170	0.000	93	79841	1.00	1.04	
128 Bromobenzene	156	12.182	12.182	0.000	94	102105	1.00	1.02	
129 trans-1,4-Dichloro-2-butene	53	12.195	12.195	0.000	95	201413	10.0	10.3	
130 1,2,3-Trichloropropane	110	12.213	12.219	-0.006	79	20717	1.00	1.03	
131 N-Propylbenzene	91	12.256	12.256	0.000	99	500611	1.00	1.05	
132 2-Chlorotoluene	126	12.329	12.329	0.000	97	100538	1.00	1.03	
133 1,3,5-Trimethylbenzene	105	12.390	12.390	0.000	94	345917	1.00	1.02	
134 4-Chlorotoluene	126	12.420	12.420	0.000	98	105728	1.00	1.03	
135 tert-Butylbenzene	134	12.627	12.627	0.000	93	72918	1.00	0.9821	
136 Pentachloroethane	167	12.664	12.664	0.000	79	63257	1.00	1.03	
137 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	97	359659	1.00	1.03	
138 sec-Butylbenzene	105	12.792	12.792	0.000	94	446751	1.00	1.03	
139 1,3-Dichlorobenzene	146	12.890	12.890	0.000	98	212057	1.00	1.02	
140 4-Isopropyltoluene	119	12.896	12.896	0.000	97	387145	1.00	1.01	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	94	1290745	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.963	12.963	0.000	95	212113	1.00	1.03	
143 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	98	166440	1.00	1.03	
144 Benzyl chloride	126	13.042	13.042	0.000	98	30405	1.00	1.02	
145 p-Diethylbenzene	119	13.097	13.097	0.000	91	232647	1.00	1.01	
146 n-Butylbenzene	92	13.188	13.188	0.000	97	204986	1.00	1.03	
147 1,2-Dichlorobenzene	146	13.219	13.219	0.000	98	200980	1.00	1.04	
149 1,2-Dibromo-3-Chloropropane	155	13.761	13.761	0.000	87	10843	1.00	1.04	
150 1,3,5-Trichlorobenzene	180	13.883	13.883	0.000	98	173045	1.00	1.03	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	150185	1.00	1.02	
152 Hexachlorobutadiene	225	14.389	14.383	0.006	96	78767	1.00	1.04	
153 Naphthalene	128	14.481	14.481	0.000	97	244516	1.00	1.02	
154 1,2,3-Trichlorobenzene	180	14.621	14.621	0.000	95	129686	1.00	1.02	
155 2-Methylnaphthalene	142	15.231	15.224	0.007	95	140109	1.00	0.9888	
166 Pentane	43	2.928	2.934	-0.006	96	106037	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00065	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00132	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00071	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00037	Amount Added:	1.00	Units: uL	Run Reagent

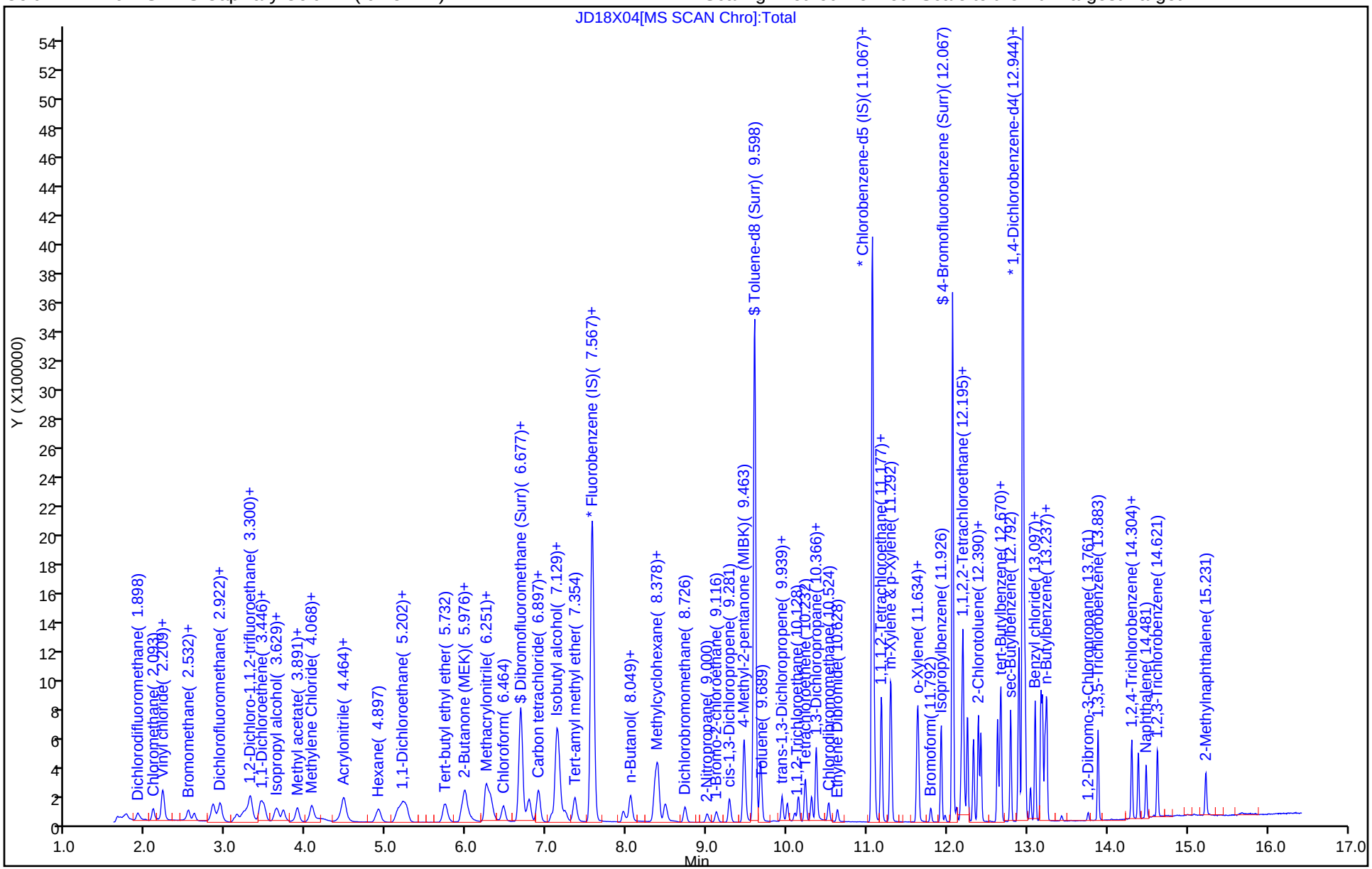
Report Date: 18-Jan-2023 15:00:34 Chrom Revision: 2.3 09-Jan-2023 13:34:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X04.D

Injection Date:	18-Jan-2023 11:24:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std3			Worklist Smp#:	5
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSV_16334_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: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

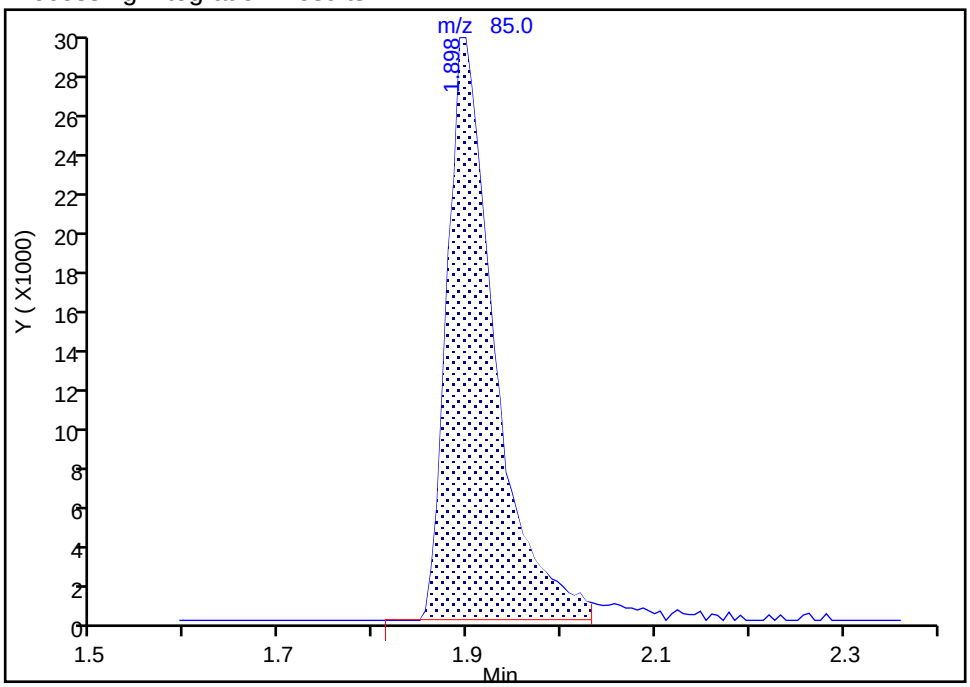
Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X04.D
Injection Date: 18-Jan-2023 11:24:30 Instrument ID: 16334
Lims ID: IC std3
Client ID:
Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

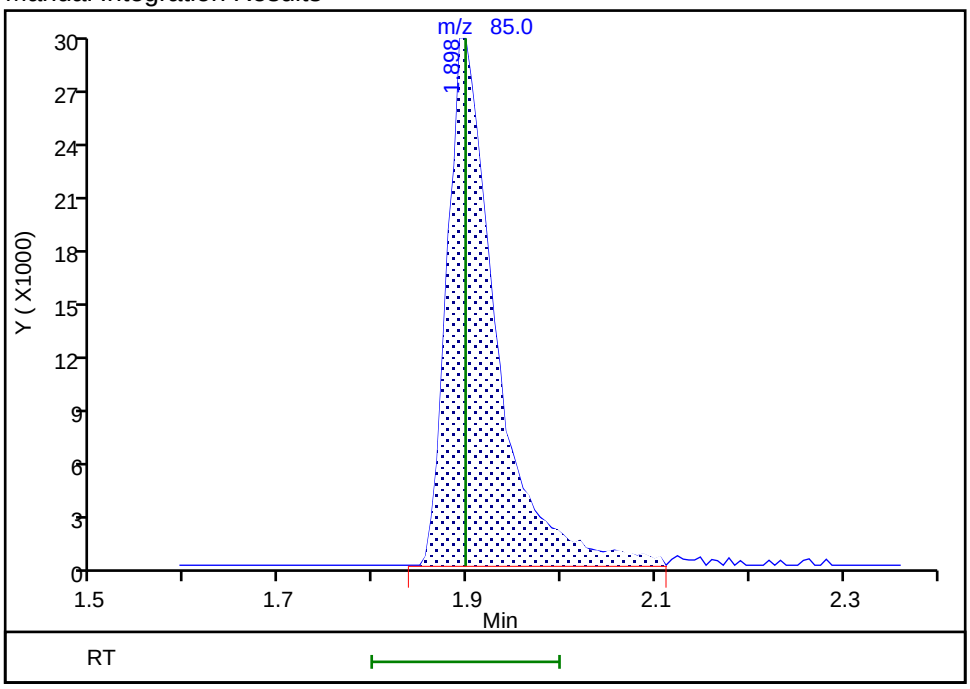
Processing Integration Results

RT: 1.90
Area: 104918
Amount: 0.985961
Amount Units: ug/l



Manual Integration Results

RT: 1.90
Area: 107746
Amount: 1.087750
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:48:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

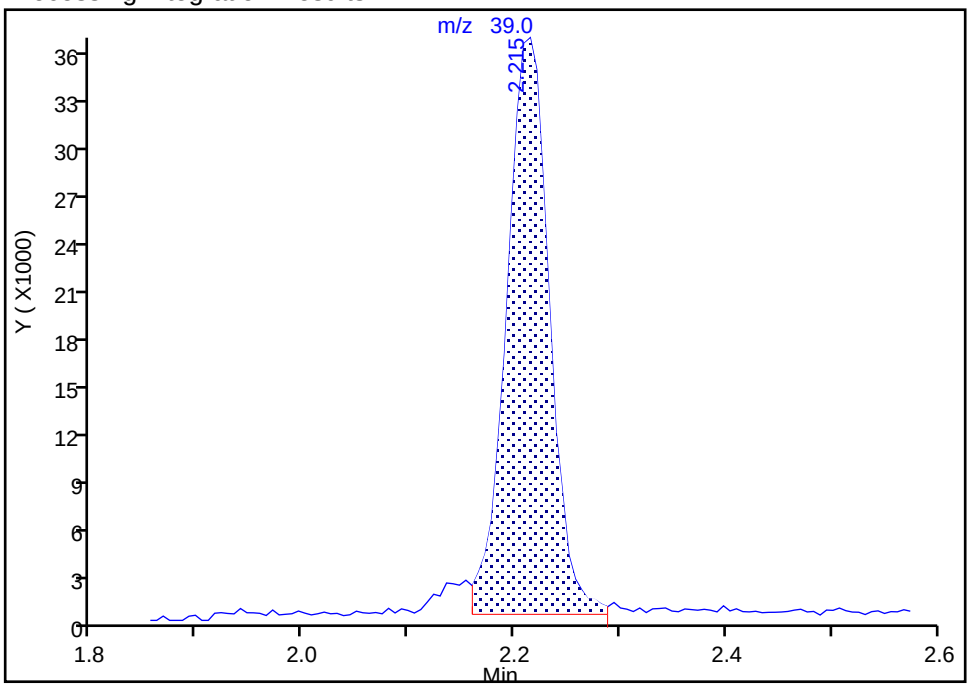
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X04.D				
Injection Date:	18-Jan-2023 11:24:30	Instrument ID:	16334		
Lims ID:	IC std3				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

7 Butadiene, CAS: 106-99-0

Signal: 1

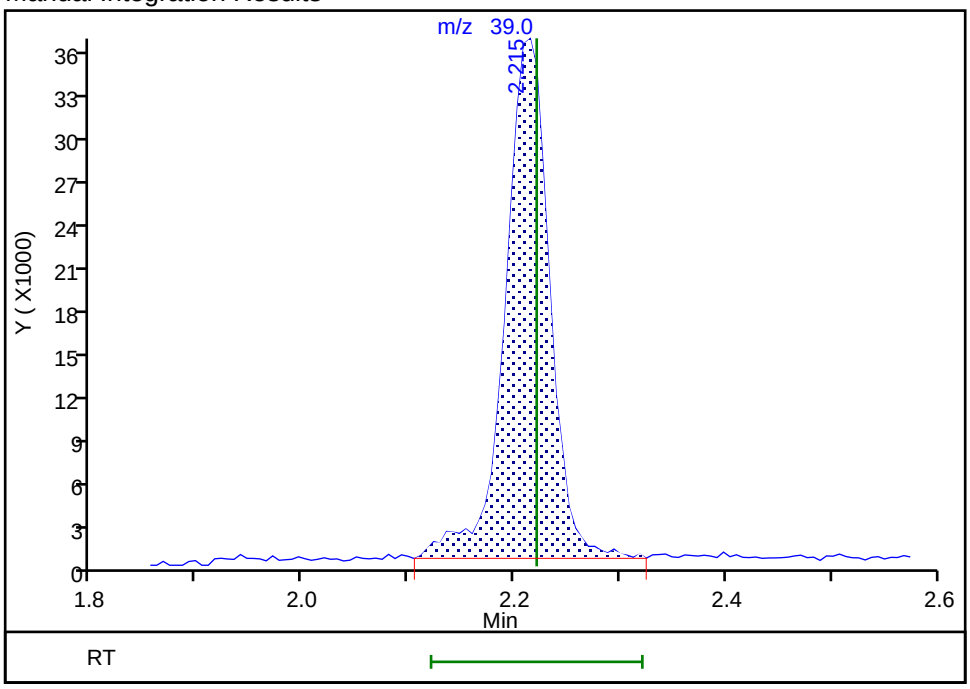
Processing Integration Results

RT: 2.21
Area: 101125
Amount: 0.852611
Amount Units: ug/l



Manual Integration Results

RT: 2.21
Area: 104974
Amount: 1.021324
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:49:01
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

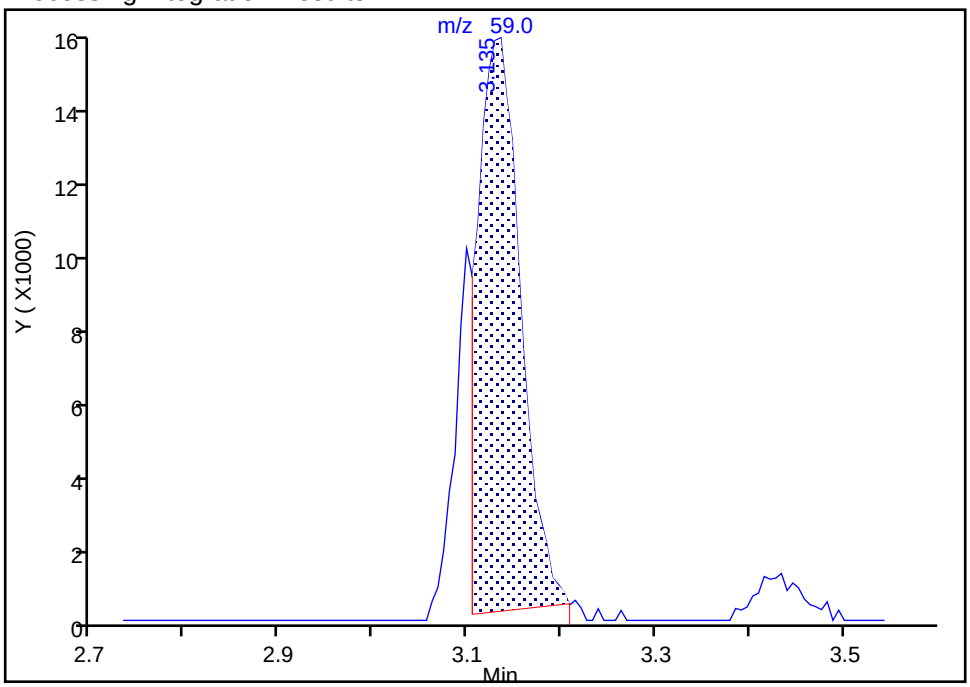
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X04.D				
Injection Date:	18-Jan-2023 11:24:30	Instrument ID:	16334		
Lims ID:	IC std3				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

13 Ethyl ether, CAS: 60-29-7

Signal: 1

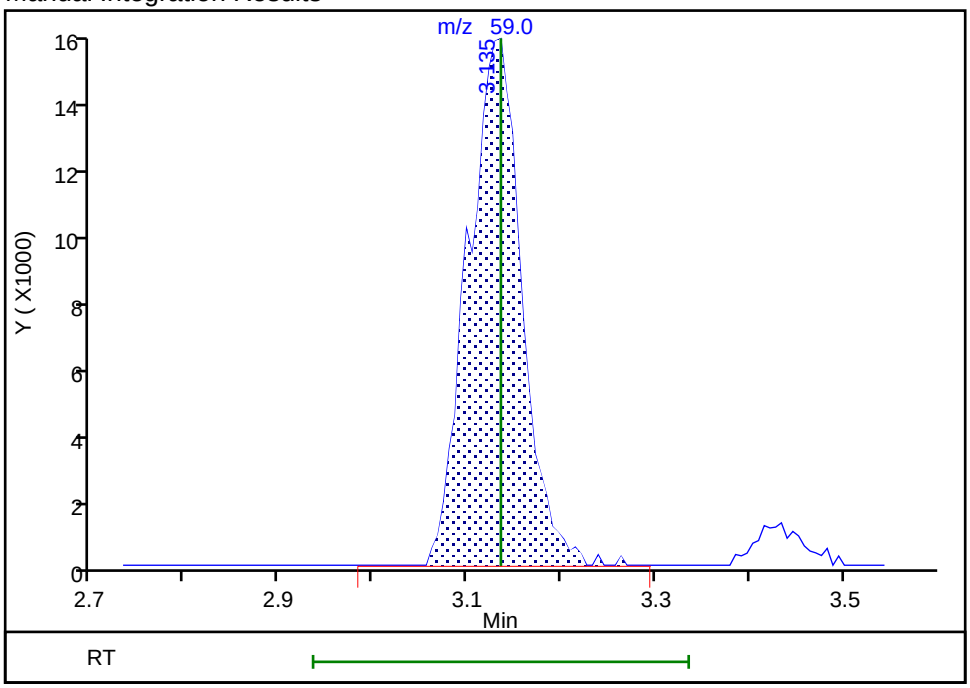
Processing Integration Results

RT: 3.14
Area: 49184
Amount: 0.865031
Amount Units: ug/l



Manual Integration Results

RT: 3.14
Area: 62149
Amount: 1.059720
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:49:20

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

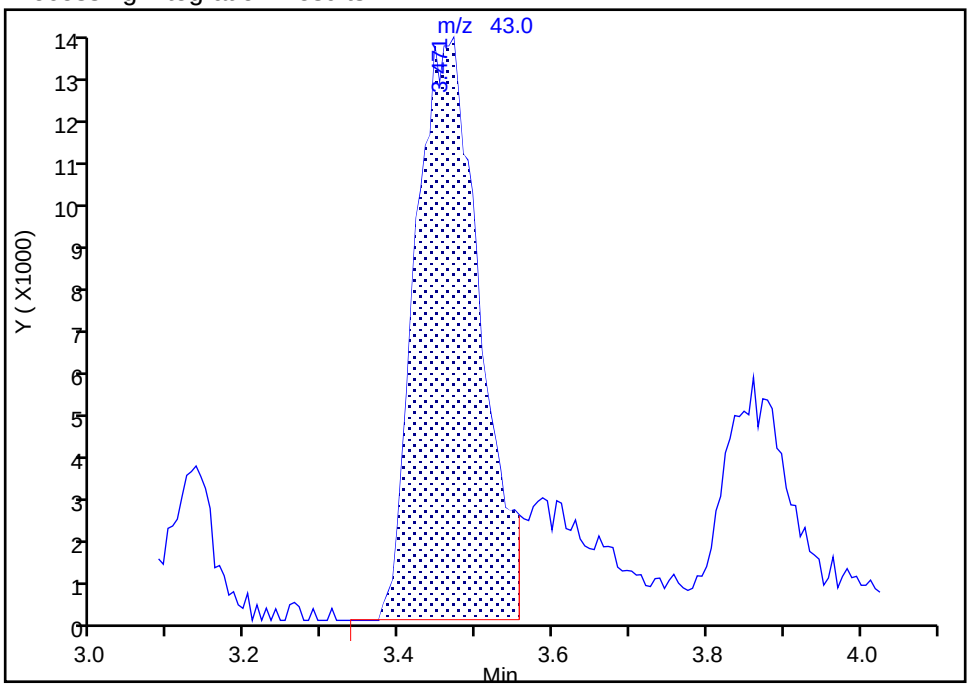
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X04.D				
Injection Date:	18-Jan-2023 11:24:30	Instrument ID:	16334		
Lims ID:	IC std3				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Acetone, CAS: 67-64-1

Signal: 1

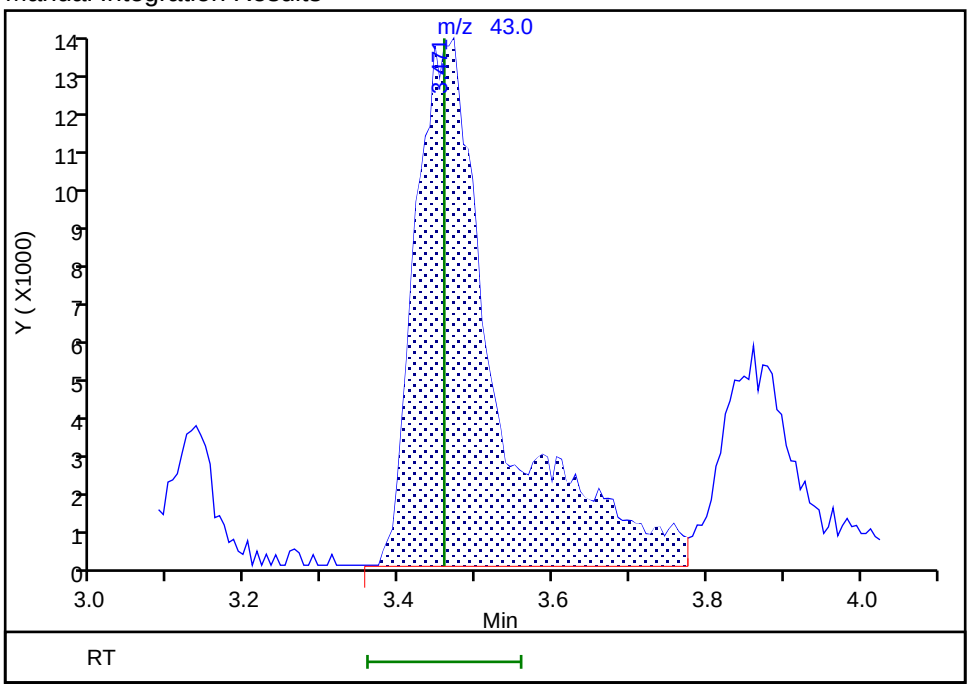
Processing Integration Results

RT: 3.47
Area: 76199
Amount: 7.940993
Amount Units: ug/l



Manual Integration Results

RT: 3.47
Area: 97219
Amount: 10.644183
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:49:48
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

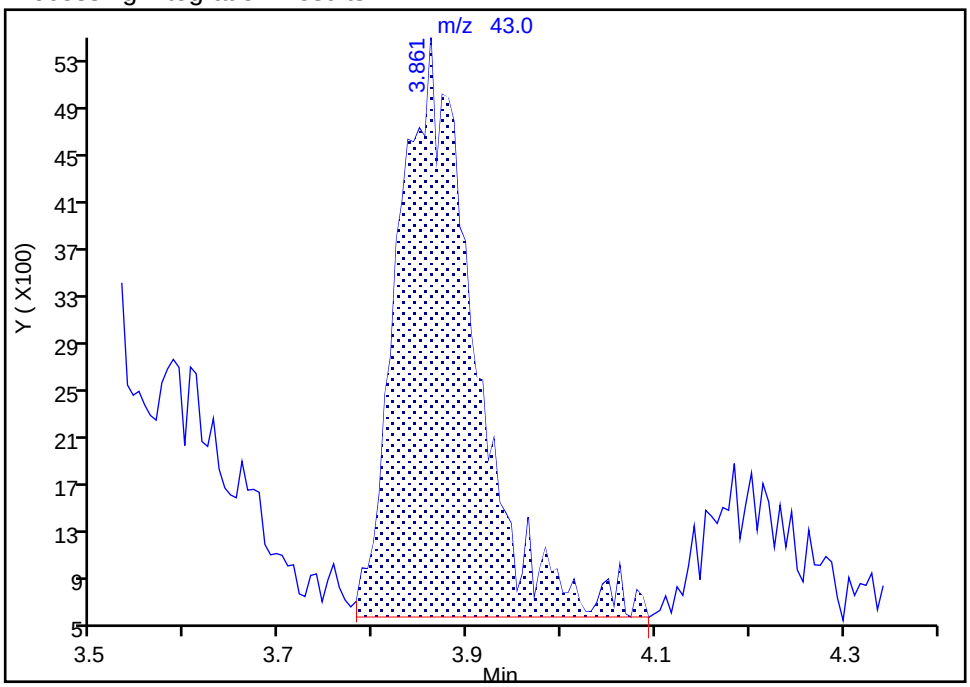
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X04.D				
Injection Date:	18-Jan-2023 11:24:30	Instrument ID:	16334		
Lims ID:	IC std3				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Methyl acetate, CAS: 79-20-9

Signal: 1

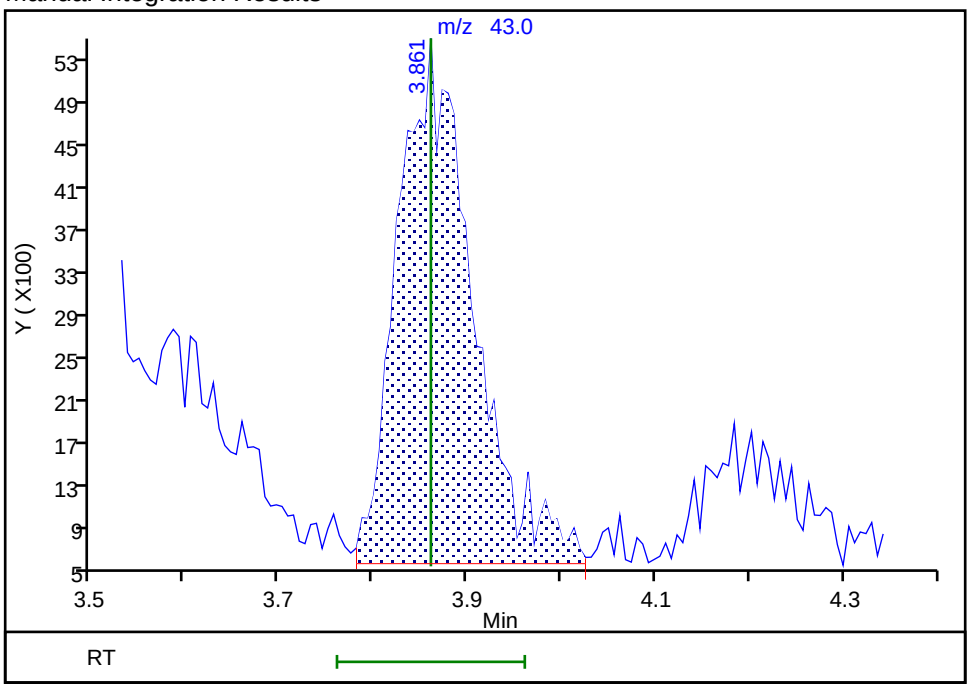
Processing Integration Results

RT: 3.86
Area: 27647
Amount: 0.834748
Amount Units: ug/l



Manual Integration Results

RT: 3.86
Area: 27011
Amount: 0.992304
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:50:23

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

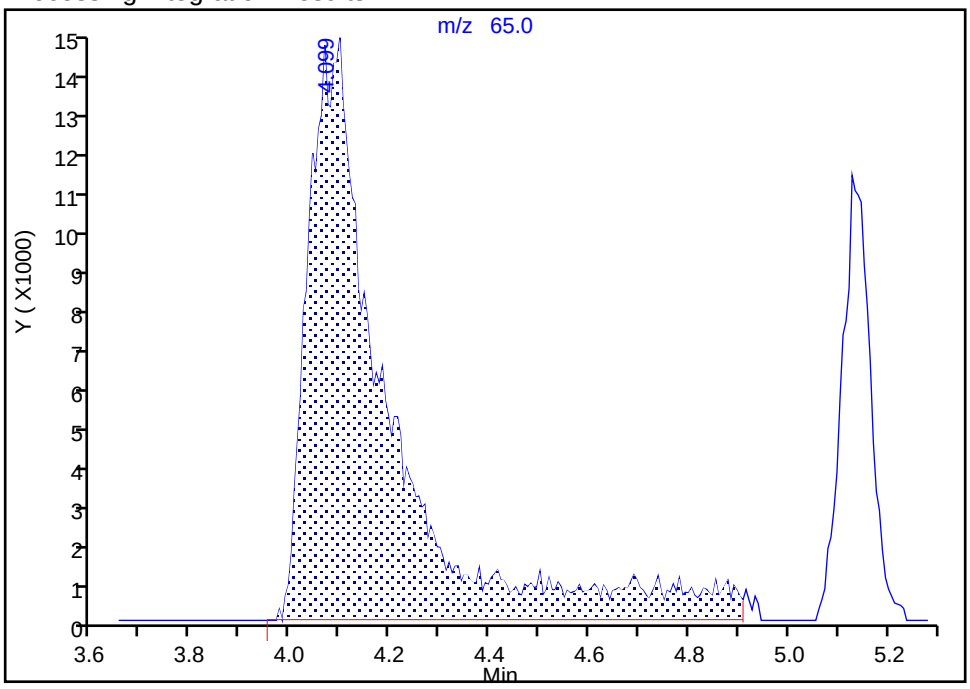
Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X04.D
Injection Date: 18-Jan-2023 11:24:30 Instrument ID: 16334
Lims ID: IC std3
Client ID:
Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

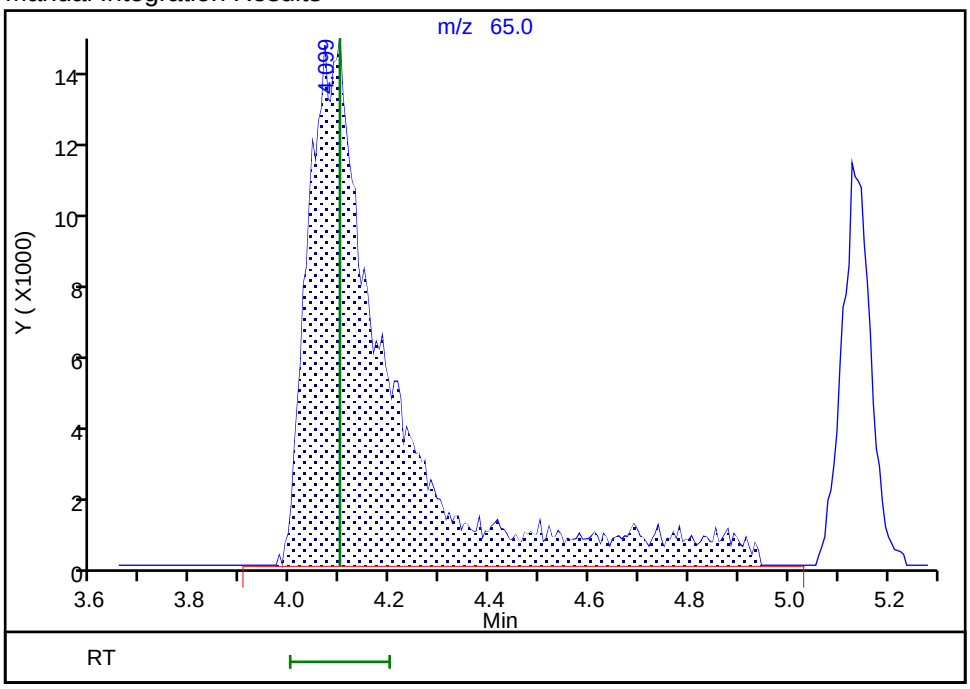
Processing Integration Results

RT: 4.10
Area: 162214
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.10
Area: 163153
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:50:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

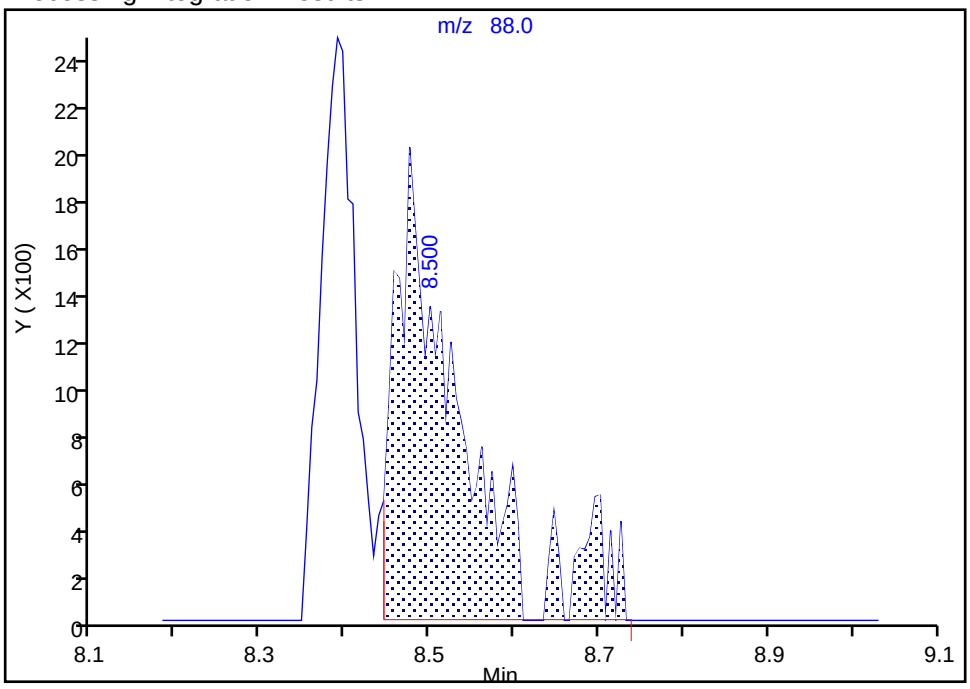
Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X04.D
Injection Date: 18-Jan-2023 11:24:30 Instrument ID: 16334
Lims ID: IC std3
Client ID:
Operator ID: knk41612 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

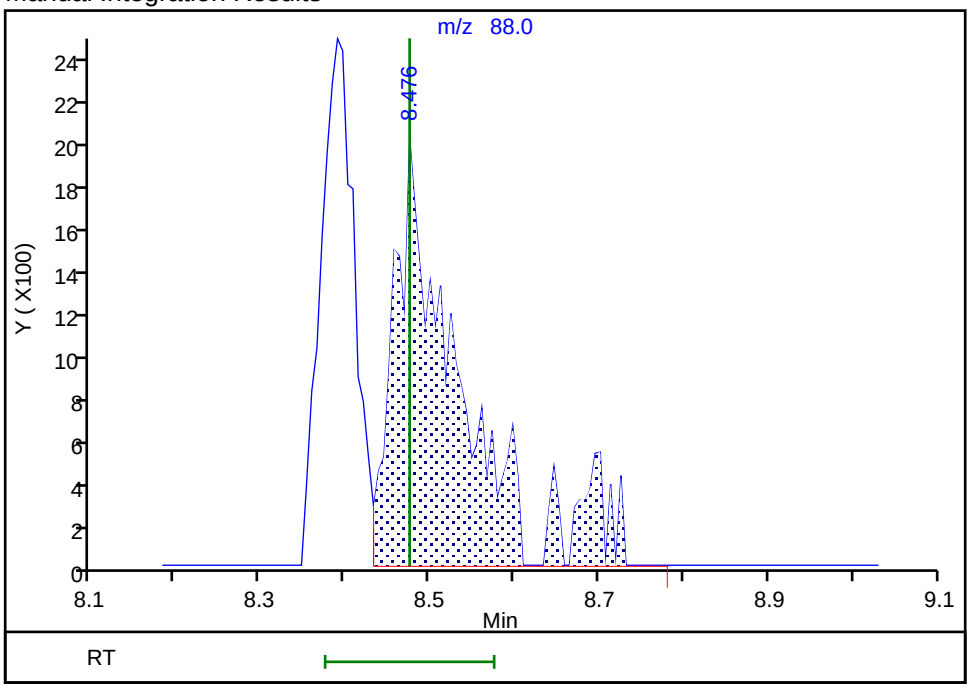
Processing Integration Results

RT: 8.50
Area: 10562
Amount: 64.119409
Amount Units: ug/l



Manual Integration Results

RT: 8.48
Area: 10823
Amount: 57.303937
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 11:51:12
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X05.D
Lims ID: IC std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 18-Jan-2023 11:46:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0075310-006
Misc. Info.: IC STD4
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jan-2023 15:00:42 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: DVW2 Date: 18-Jan-2023 12:30:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.892	1.892	0.000	99	220877	2.00	2.19	
5 Chloromethane	50	2.081	2.081	0.000	99	242087	2.00	2.07	M
6 Vinyl chloride	62	2.190	2.190	0.000	98	233091	2.00	2.10	
7 Butadiene	39	2.203	2.203	0.000	92	202832	2.00	2.14	
9 Bromomethane	94	2.520	2.520	0.000	90	153865	2.00	2.09	
10 Chloroethane	64	2.599	2.599	0.000	99	130592	2.00	2.05	
11 Dichlorofluoromethane	67	2.824	2.824	0.000	97	306786	2.00	2.07	
12 Trichlorofluoromethane	101	2.898	2.898	0.000	97	298947	2.00	2.13	
13 Ethyl ether	59	3.123	3.123	0.000	92	126520	2.00	2.12	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.202	3.202	0.000	92	184122	2.00	2.06	
17 Acrolein	56	3.294	3.294	0.000	100	794880	100.0	107.9	
18 1,1-Dichloroethene	96	3.416	3.416	0.000	98	139919	2.00	2.03	
20 Acetone	43	3.446	3.446	0.000	99	187114	20.0	20.2	M
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.464	3.464	0.000	92	137297	2.00	2.08	
24 Isopropyl alcohol	45	3.605	3.605	0.000	31	67080	40.0	43.6	M
21 Iodomethane	142	3.605	3.605	0.000	99	247090	2.00	2.12	
22 Ethyl bromide	108	3.635	3.635	0.000	98	128316	2.00	2.11	
23 Carbon disulfide	76	3.702	3.702	0.000	99	422722	2.00	2.05	
25 Methyl acetate	43	3.861	3.861	0.000	99	54133	2.00	2.13	
27 3-Chloro-1-propene	41	3.885	3.885	0.000	92	217350	2.00	2.04	
29 Methylene Chloride	84	4.062	4.062	0.000	92	161514	2.00	2.10	
* 30 t-Butyl alcohol-d10 (IS)	65	4.080	4.080	0.000	88	165283	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.202	4.202	0.000	99	142972	40.0	40.1	
32 Acrylonitrile	53	4.403	4.403	0.000	98	68212	5.00	5.34	
33 Methyl tert-butyl ether	73	4.452	4.452	0.000	90	395144	2.00	2.11	
34 trans-1,2-Dichloroethene	96	4.464	4.464	0.000	99	164963	2.00	2.11	
35 Hexane	57	4.891	4.891	0.000	94	209328	2.00	2.11	
37 1,1-Dichloroethane	63	5.129	5.129	0.000	96	289797	2.00	2.10	
38 Isopropyl ether	45	5.190	5.190	0.000	94	508508	2.00	2.13	
39 2-Chloro-1,3-butadiene	53	5.245	5.245	0.000	91	217576	2.00	2.06	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.726	5.726	0.000	98	476946	2.00	2.13	
41 2-Butanone (MEK)	43	5.934	5.934	0.000	100	385396	20.0	21.2	
42 cis-1,2-Dichloroethene	96	5.970	5.970	0.000	82	181204	2.00	2.10	
43 2,2-Dichloropropane	77	5.982	5.982	0.000	71	233568	2.00	2.06	
45 Propionitrile	54	6.031	6.031	0.000	99	185043	40.0	42.6	
S 47 1,2-Dichloroethene, Total	100				0			4.21	
48 Methacrylonitrile	67	6.238	6.238	0.000	92	412262	20.0	22.2	
49 Chlorobromomethane	128	6.299	6.299	0.000	94	80173	2.00	2.12	
50 Tetrahydrofuran	71	6.305	6.305	0.000	75	56710	10.0	11.1	
51 Chloroform	83	6.458	6.458	0.000	93	292882	2.00	2.11	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.671	0.000	94	712637	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.683	6.683	0.000	98	246233	2.00	2.06	
54 Cyclohexane	56	6.781	6.781	0.000	91	254807	2.00	2.09	
56 Carbon tetrachloride	117	6.891	6.891	0.000	97	217747	2.00	2.07	
57 1,1-Dichloropropene	75	6.897	6.897	0.000	97	220653	2.00	2.08	
58 Isobutyl alcohol	41	7.055	7.055	0.000	93	112401	100.0	93.5	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.128	0.000	77	146871	10.0	9.98	
60 Benzene	78	7.159	7.159	0.000	96	667765	2.00	2.08	
61 1,2-Dichloroethane	62	7.226	7.226	0.000	97	190832	2.00	2.11	
63 Tert-amyl methyl ether	73	7.348	7.348	0.000	98	436415	2.00	2.13	
* 64 Fluorobenzene (IS)	96	7.567	7.567	0.000	98	2961954	10.0	10.0	
65 n-Heptane	43	7.580	7.580	0.000	92	236568	2.00	2.11	
67 n-Butanol	56	7.951	7.951	0.000	91	190144	175.0	193.4	
68 Trichloroethene	95	8.043	8.043	0.000	98	180542	2.00	2.08	
69 Methylcyclohexane	83	8.354	8.354	0.000	91	278872	2.00	2.10	
70 1,2-Dichloropropane	63	8.372	8.372	0.000	89	174800	2.00	2.09	
71 2-ethoxy-2-methyl butane	87	8.390	8.390	0.000	91	253617	2.00	2.15	
72 Methyl methacrylate	69	8.470	8.470	0.000	90	74095	2.00	2.11	
74 1,4-Dioxane	88	8.470	8.470	0.000	31	25029	100.0	129.7	M
73 Dibromomethane	93	8.482	8.482	0.000	95	84985	2.00	2.12	
76 Dichlorobromomethane	83	8.726	8.726	0.000	99	210928	2.00	2.11	
77 2-Nitropropane	41	9.000	9.000	0.000	98	112346	10.0	10.8	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	98	186328	2.00	2.15	
81 cis-1,3-Dichloropropene	75	9.280	9.280	0.000	96	260329	2.00	2.11	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	97	1100101	20.0	22.3	
$ 83 Toluene-d8 (Surr)	98	9.597	9.597	0.000	93	2969131	10.0	9.92	
84 Toluene	92	9.671	9.671	0.000	98	438839	2.00	2.08	
85 trans-1,3-Dichloropropene	75	9.933	9.933	0.000	93	229601	2.00	2.10	
104 Ethyl methacrylate	69	10.000	10.000	0.000	89	162674	2.00	2.10	
S 105 1,3-Dichloropropene, Total	100				0			4.21	
106 1,1,2-Trichloroethane	97	10.140	10.140	0.000	91	126216	2.00	2.04	
107 Tetrachloroethene	166	10.225	10.225	0.000	98	207130	2.00	2.09	
108 1,3-Dichloropropane	76	10.305	10.305	0.000	90	215829	2.00	2.10	
109 2-Hexanone	43	10.366	10.366	0.000	97	803335	20.0	22.7	
111 Chlorodibromomethane	129	10.518	10.518	0.000	90	154532	2.00	2.12	
112 Ethylene Dibromide	107	10.628	10.628	0.000	98	119382	2.00	2.10	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	85	2265934	10.0	10.0	
114 1-Chlorohexane	91	11.079	11.079	0.000	97	244829	2.00	2.04	
115 Chlorobenzene	112	11.091	11.091	0.000	96	520667	2.00	2.09	
117 1,1,1,2-Tetrachloroethane	131	11.176	11.176	0.000	96	172495	2.00	2.08	
116 Ethylbenzene	91	11.182	11.182	0.000	98	854467	2.00	2.10	
S 118 Xylenes, Total	106				0			6.28	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 m-Xylene & p-Xylene	106	11.292	11.292	0.000	89	655927	4.00	4.17	
120 o-Xylene	106	11.621	11.621	0.000	97	322799	2.00	2.12	
121 Styrene	104	11.640	11.640	0.000	95	518763	2.00	2.12	
122 Bromoform	173	11.792	11.792	0.000	97	94258	2.00	2.11	
123 Isopropylbenzene	105	11.926	11.926	0.000	96	826429	2.00	2.10	
$ 126 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	91	1098571	10.0	9.97	
127 1,1,2,2-Tetrachloroethane	83	12.170	12.170	0.000	93	168520	2.00	2.15	
128 Bromobenzene	156	12.182	12.182	0.000	96	217210	2.00	2.12	
129 trans-1,4-Dichloro-2-butene	53	12.194	12.194	0.000	92	441279	20.0	22.2	
130 1,2,3-Trichloropropane	110	12.213	12.213	0.000	78	43759	2.00	2.12	
131 N-Propylbenzene	91	12.249	12.249	0.000	99	1042385	2.00	2.13	
132 2-Chlorotoluene	126	12.329	12.329	0.000	97	211171	2.00	2.11	
133 1,3,5-Trimethylbenzene	105	12.390	12.390	0.000	94	742137	2.00	2.15	
134 4-Chlorotoluene	126	12.420	12.420	0.000	97	226967	2.00	2.17	
135 tert-Butylbenzene	134	12.627	12.627	0.000	93	171202	2.00	2.26	
136 Pentachloroethane	167	12.658	12.658	0.000	92	133828	2.00	2.12	
137 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	97	771965	2.00	2.15	
138 sec-Butylbenzene	105	12.792	12.792	0.000	94	934487	2.00	2.11	
139 1,3-Dichlorobenzene	146	12.889	12.889	0.000	98	451169	2.00	2.13	
140 4-Isopropyltoluene	119	12.896	12.896	0.000	97	821716	2.00	2.11	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	1319261	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.963	12.963	0.000	96	439362	2.00	2.09	
143 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	98	348713	2.00	2.11	
144 Benzyl chloride	126	13.042	13.042	0.000	98	65034	2.00	2.13	
145 p-Diethylbenzene	119	13.097	13.097	0.000	92	499706	2.00	2.13	
146 n-Butylbenzene	92	13.188	13.188	0.000	97	427715	2.00	2.11	
147 1,2-Dichlorobenzene	146	13.219	13.219	0.000	98	419185	2.00	2.12	
149 1,2-Dibromo-3-Chloropropane	155	13.761	13.761	0.000	87	22816	2.00	2.15	
150 1,3,5-Trichlorobenzene	180	13.883	13.883	0.000	98	359164	2.00	2.09	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	316063	2.00	2.10	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	96	162153	2.00	2.10	
153 Naphthalene	128	14.481	14.481	0.000	97	519883	2.00	2.12	
154 1,2,3-Trichlorobenzene	180	14.627	14.627	0.000	95	276927	2.00	2.12	
155 2-Methylnaphthalene	142	15.224	15.224	0.000	92	304097	2.00	2.10	
166 Pentane	43	2.922	2.922	0.000	96	228054	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

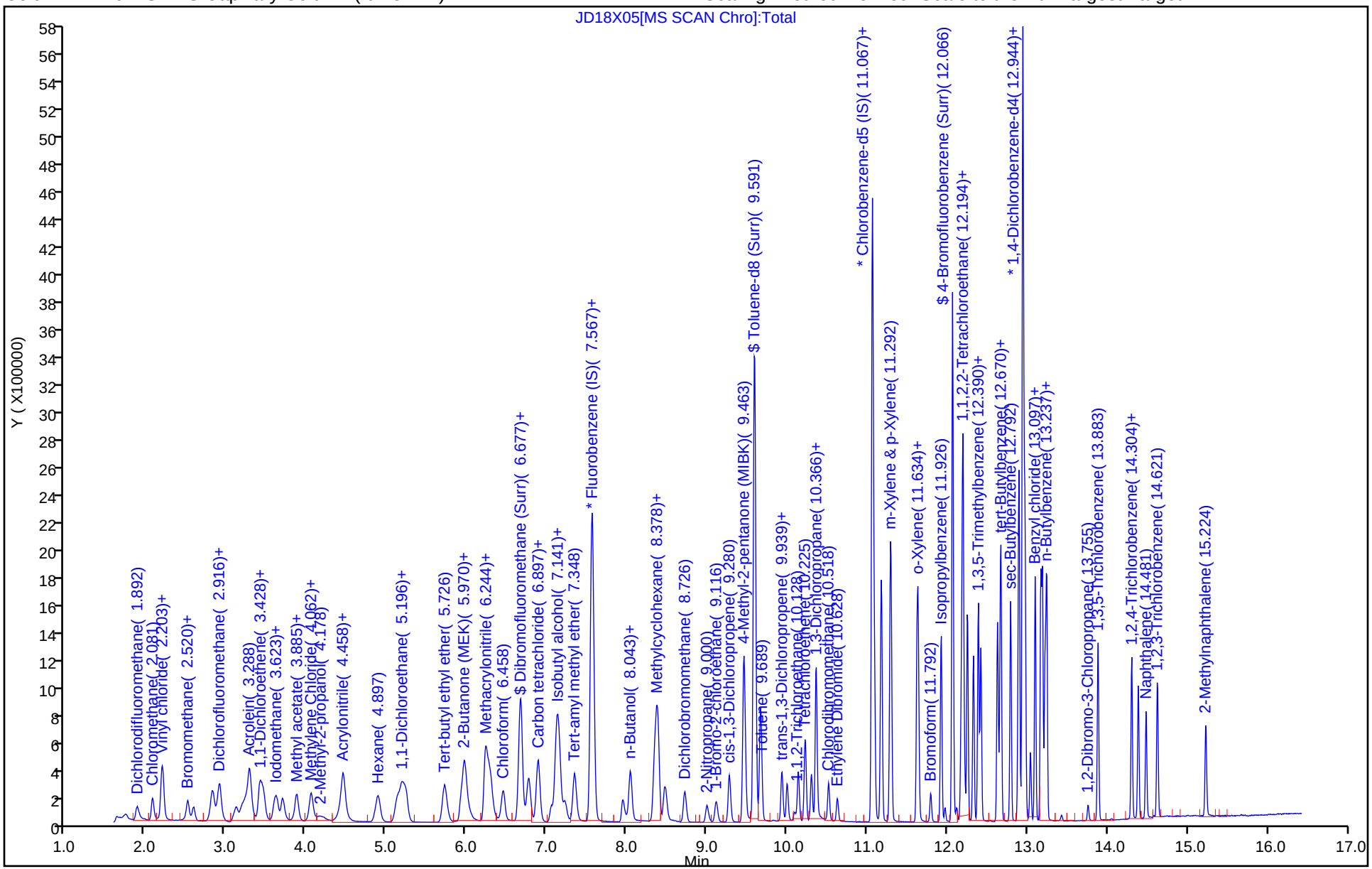
MSV_LL_#1_826_00065	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00132	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00071	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00037	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 18-Jan-2023 15:00:43 Chrom Revision: 2.3 09-Jan-2023 13:34:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X05.D				
Injection Date:	18-Jan-2023 11:46:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std4			Worklist Smp#:	6
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSV_16334_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: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

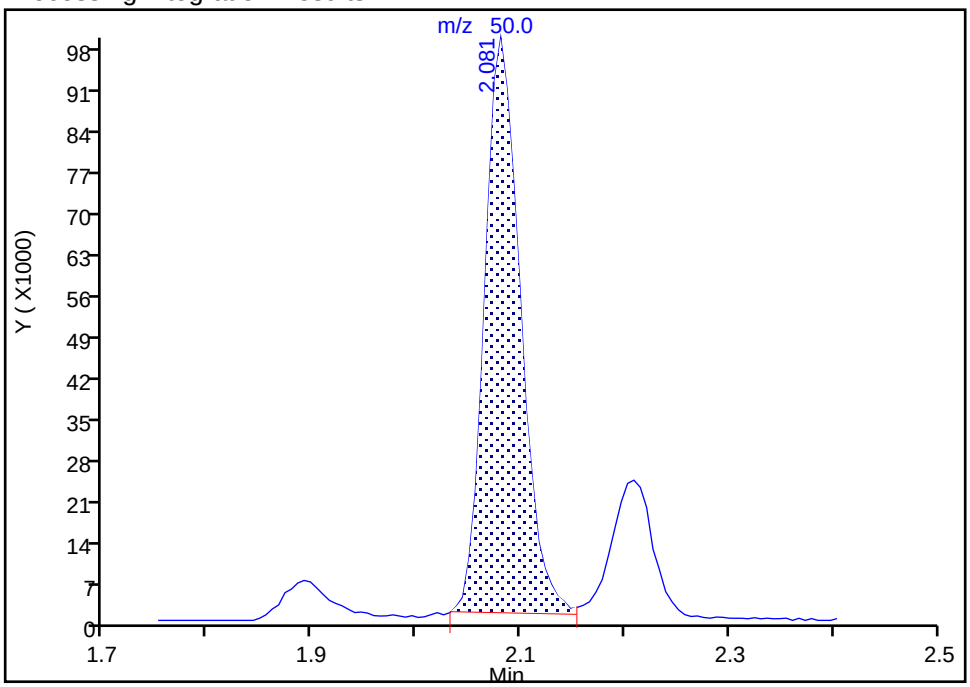
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X05.D				
Injection Date:	18-Jan-2023 11:46:30	Instrument ID:	16334		
Lims ID:	IC std4				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

5 Chloromethane, CAS: 74-87-3

Signal: 1

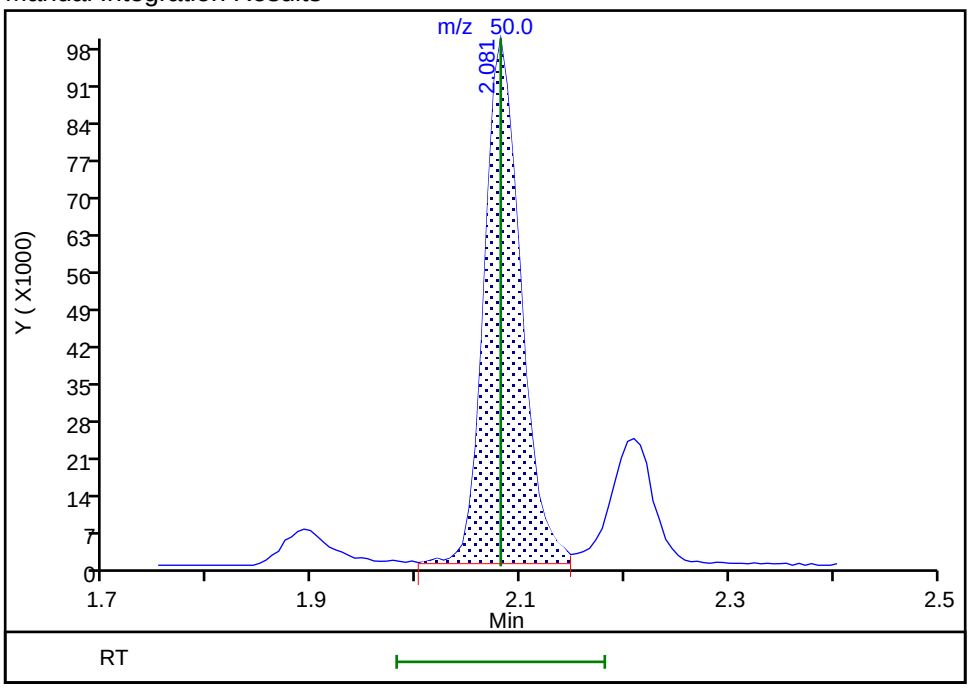
Processing Integration Results

RT: 2.08
Area: 237380
Amount: 1.889821
Amount Units: ug/l



Manual Integration Results

RT: 2.08
Area: 242087
Amount: 2.072779
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 12:09:41
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

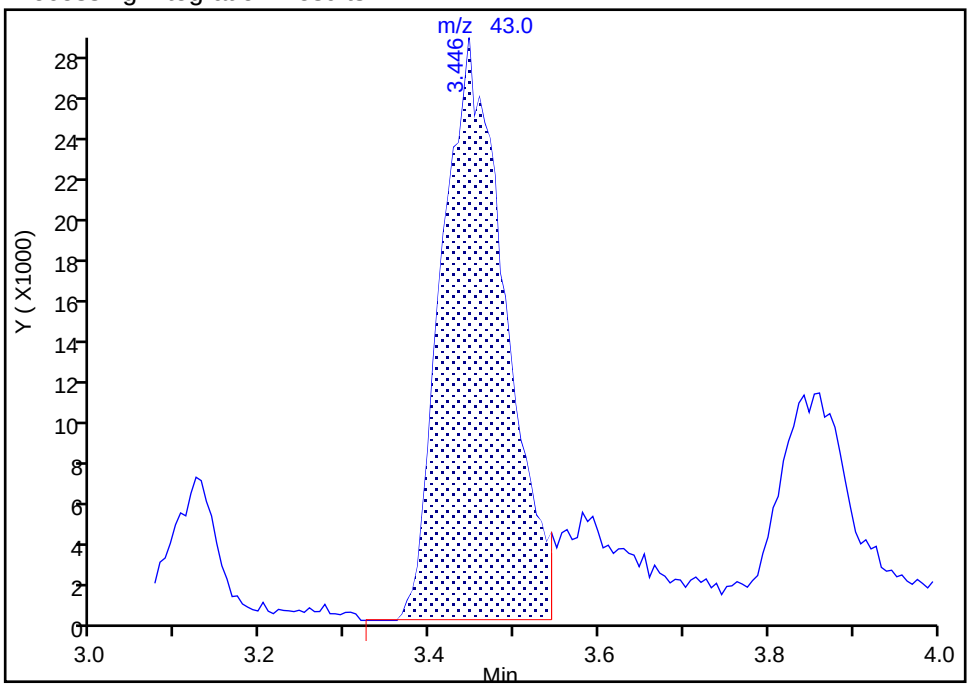
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X05.D				
Injection Date:	18-Jan-2023 11:46:30	Instrument ID:	16334		
Lims ID:	IC std4				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Acetone, CAS: 67-64-1

Signal: 1

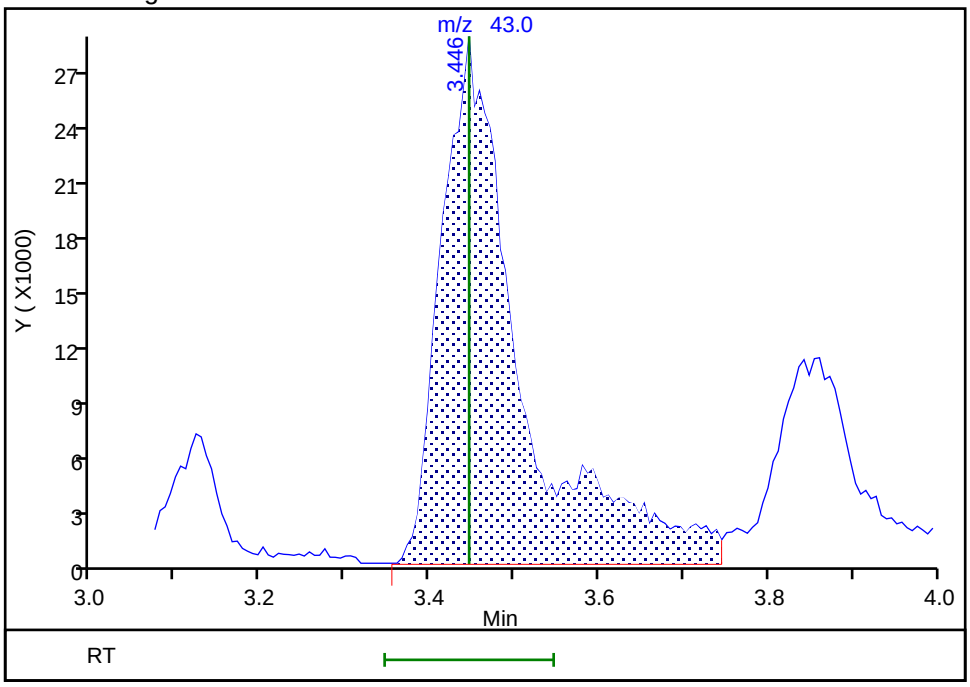
Processing Integration Results

RT: 3.45
Area: 150453
Amount: 15.856979
Amount Units: ug/l



Manual Integration Results

RT: 3.45
Area: 187114
Amount: 20.222477
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 12:14:50
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

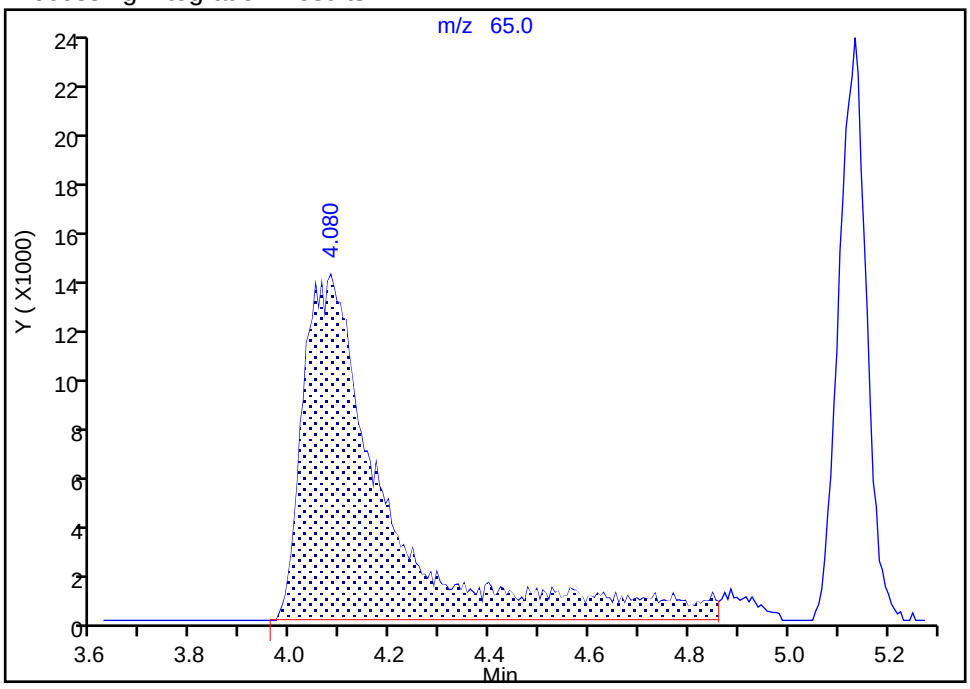
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X05.D				
Injection Date:	18-Jan-2023 11:46:30	Instrument ID:	16334		
Lims ID:	IC std4				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

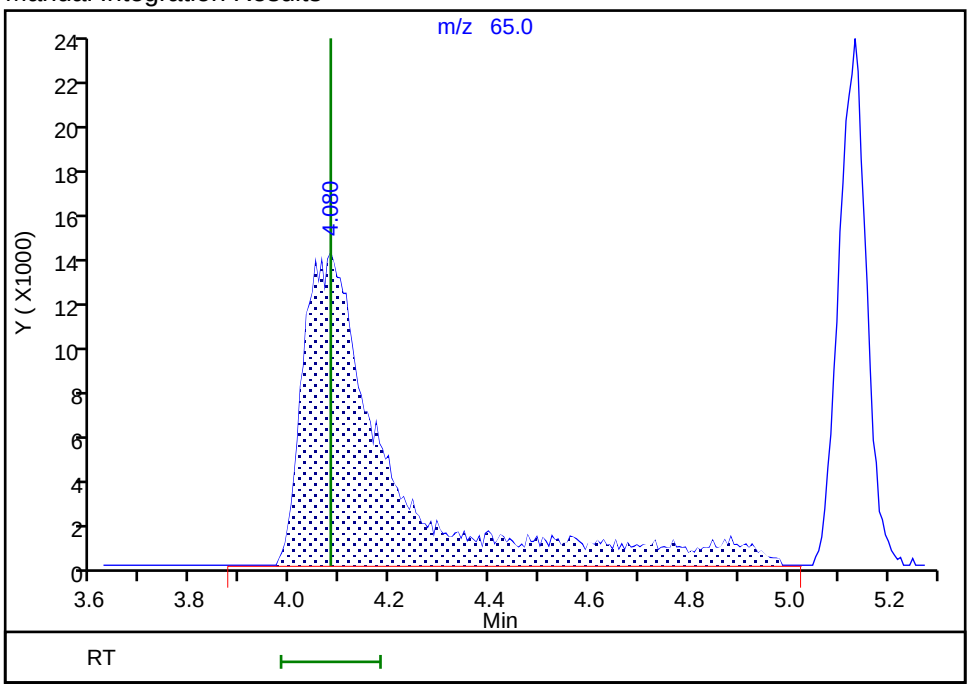
Processing Integration Results

RT: 4.08
Area: 160093
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.08
Area: 165283
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 12:15:35

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

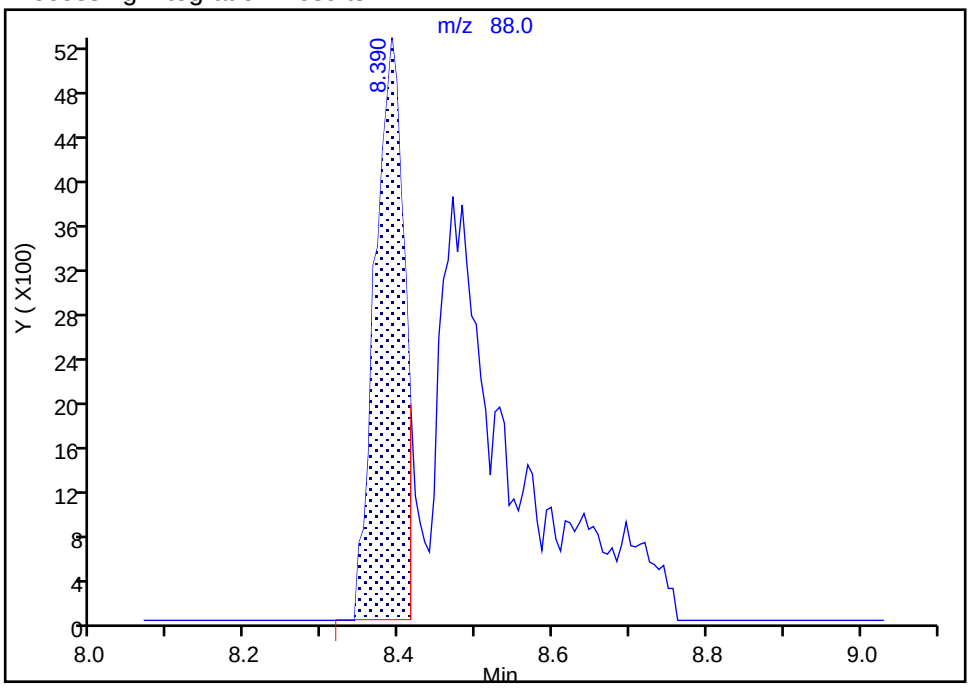
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X05.D				
Injection Date:	18-Jan-2023 11:46:30	Instrument ID:	16334		
Lims ID:	IC std4				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

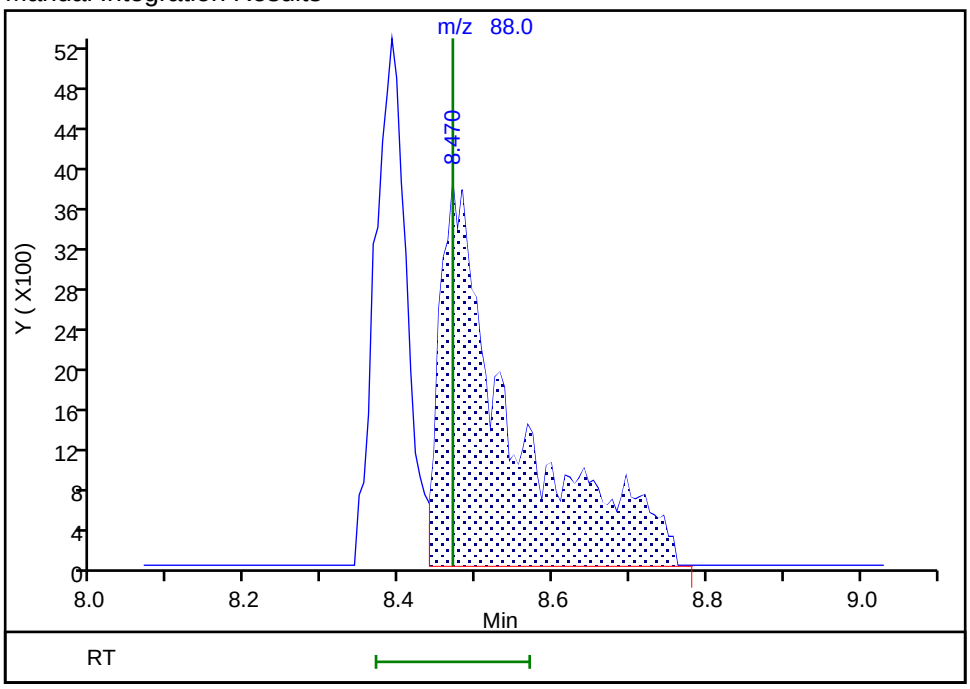
Processing Integration Results

RT: 8.39
Area: 13594
Amount: 84.717427
Amount Units: ug/l



Manual Integration Results

RT: 8.47
Area: 25029
Amount: 129.7103
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 12:16:06
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X06.D
Lims ID: IC std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 18-Jan-2023 12:09:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0075310-007
Misc. Info.: IC STD5
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jan-2023 15:00:49 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: DVW2 Date: 18-Jan-2023 12:33:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.898	1.892	0.006	99	492978	5.00	4.65	
5 Chloromethane	50	2.087	2.081	0.006	99	567277	5.00	4.62	
6 Vinyl chloride	62	2.202	2.190	0.012	98	541747	5.00	4.63	
7 Butadiene	39	2.221	2.203	0.018	91	485767	5.00	5.15	
9 Bromomethane	94	2.532	2.520	0.012	91	349572	5.00	4.53	
10 Chloroethane	64	2.605	2.599	0.006	100	304320	5.00	4.54	
11 Dichlorofluoromethane	67	2.843	2.824	0.019	97	710714	5.00	4.56	
12 Trichlorofluoromethane	101	2.904	2.898	0.006	96	703443	5.00	4.77	
13 Ethyl ether	59	3.135	3.123	0.012	92	295632	5.00	4.71	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.227	3.202	0.025	93	428915	5.00	4.57	
17 Acrolein	56	3.294	3.294	0.000	99	1936056	250.0	238.5	
18 1,1-Dichloroethene	96	3.428	3.416	0.012	98	339280	5.00	4.68	
20 Acetone	43	3.458	3.446	0.012	49	446349	50.0	43.8	M
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.471	3.464	0.006	91	342264	5.00	4.92	
24 Isopropyl alcohol	45	3.599	3.605	-0.006	30	165396	100.0	102.2	M
21 Iodomethane	142	3.617	3.605	0.012	98	588101	5.00	4.79	
22 Ethyl bromide	108	3.641	3.635	0.006	98	304098	5.01	4.76	
23 Carbon disulfide	76	3.714	3.702	0.012	99	1031921	5.00	4.77	
25 Methyl acetate	43	3.867	3.861	0.006	97	127013	5.00	4.72	M
27 3-Chloro-1-propene	41	3.891	3.885	0.006	92	534815	5.00	4.77	
29 Methylene Chloride	84	4.068	4.062	0.006	92	374477	5.00	4.64	
* 30 t-Butyl alcohol-d10 (IS)	65	4.086	4.080	0.006	86	182187	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.196	4.202	-0.006	99	335451	100.0	85.4	
32 Acrylonitrile	53	4.409	4.403	0.006	98	160418	12.5	11.4	
33 Methyl tert-butyl ether	73	4.464	4.452	0.012	97	947975	5.00	4.82	
34 trans-1,2-Dichloroethene	96	4.470	4.464	0.006	99	387312	5.00	4.72	
35 Hexane	57	4.903	4.891	0.012	93	525235	5.00	5.04	
37 1,1-Dichloroethane	63	5.141	5.129	0.012	96	689108	5.00	4.74	
38 Isopropyl ether	45	5.202	5.190	0.012	94	1218042	5.00	4.84	
39 2-Chloro-1,3-butadiene	53	5.245	5.245	0.000	91	542271	5.00	4.88	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.732	5.726	0.006	98	1138925	5.00	4.84	
41 2-Butanone (MEK)	43	5.933	5.934	-0.001	100	928742	50.0	46.4	
42 cis-1,2-Dichloroethene	96	5.976	5.970	0.006	82	425575	5.00	4.69	
43 2,2-Dichloropropane	77	5.988	5.982	0.006	88	570810	5.00	4.79	
45 Propionitrile	54	6.031	6.031	0.000	99	458950	100.0	95.8	
S 47 1,2-Dichloroethene, Total	100				0			9.41	
48 Methacrylonitrile	67	6.244	6.238	0.006	91	985352	50.0	48.2	
49 Chlorobromomethane	128	6.305	6.299	0.006	92	191906	5.00	4.82	
50 Tetrahydrofuran	71	6.311	6.305	0.006	76	138138	25.0	24.5	
51 Chloroform	83	6.464	6.458	0.006	93	694546	5.00	4.76	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	94	743467	10.0	9.94	
53 1,1,1-Trichloroethane	97	6.689	6.683	0.006	98	590221	5.00	4.69	
54 Cyclohexane	56	6.781	6.781	0.000	91	635393	5.00	4.97	
56 Carbon tetrachloride	117	6.897	6.891	0.006	88	530778	5.00	4.80	
57 1,1-Dichloropropene	75	6.903	6.897	0.006	95	538796	5.00	4.83	
58 Isobutyl alcohol	41	7.067	7.055	0.012	93	308121	250.0	243.8	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.134	7.128	0.006	93	153867	10.0	9.94	
60 Benzene	78	7.159	7.159	0.000	97	1590224	5.00	4.72	
61 1,2-Dichloroethane	62	7.232	7.226	0.006	97	445179	5.00	4.69	
63 Tert-amyl methyl ether	73	7.354	7.348	0.006	98	1039072	5.00	4.82	
* 64 Fluorobenzene (IS)	96	7.567	7.567	0.000	99	3114537	10.0	10.0	
65 n-Heptane	43	7.586	7.580	0.006	92	579290	5.00	4.91	
67 n-Butanol	56	7.951	7.951	0.000	91	468536	437.5	432.4	
68 Trichloroethene	95	8.049	8.043	0.006	98	429410	5.00	4.71	
69 Methylcyclohexane	83	8.354	8.354	0.000	93	698415	5.00	5.01	
70 1,2-Dichloropropane	63	8.378	8.372	0.006	85	416009	5.00	4.74	
71 2-ethoxy-2-methyl butane	87	8.390	8.390	0.000	91	612262	5.00	4.95	
72 Methyl methacrylate	69	8.470	8.470	0.000	90	189399	5.00	4.88	
74 1,4-Dioxane	88	8.488	8.470	0.018	30	54969	250.0	257.6	M
73 Dibromomethane	93	8.488	8.482	0.006	95	199062	5.00	4.72	
76 Dichlorobromomethane	83	8.732	8.726	0.006	100	509901	5.00	4.85	
77 2-Nitropropane	41	9.000	9.000	0.000	98	268306	25.0	23.3	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	98	443991	5.00	4.87	
81 cis-1,3-Dichloropropene	75	9.280	9.280	0.000	96	642179	5.00	4.95	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	97	2674664	50.0	49.1	
$ 83 Toluene-d8 (Surr)	98	9.597	9.597	0.000	93	3125432	10.0	10.1	
84 Toluene	92	9.671	9.671	0.000	98	1038792	5.00	4.75	
85 trans-1,3-Dichloropropene	75	9.939	9.933	0.006	93	554122	5.00	4.90	
104 Ethyl methacrylate	69	10.006	10.000	0.006	89	405252	5.00	5.06	
S 105 1,3-Dichloropropene, Total	100				0			9.85	
106 1,1,2-Trichloroethane	97	10.140	10.140	0.000	91	299081	5.00	4.67	
107 Tetrachloroethene	166	10.231	10.225	0.006	98	494504	5.00	4.81	
108 1,3-Dichloropropane	76	10.305	10.305	0.000	91	511640	5.00	4.80	
109 2-Hexanone	43	10.366	10.366	0.000	97	1938276	50.0	49.7	
111 Chlorodibromomethane	129	10.518	10.518	0.000	91	372477	5.00	4.92	
112 Ethylene Dibromide	107	10.628	10.628	0.000	98	286095	5.00	4.85	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	85	2349342	10.0	10.0	
114 1-Chlorohexane	91	11.079	11.079	0.000	97	588943	5.00	4.73	
115 Chlorobenzene	112	11.091	11.091	0.000	95	1236075	5.00	4.79	
117 1,1,1,2-Tetrachloroethane	131	11.176	11.176	0.000	95	414464	5.00	4.82	
116 Ethylbenzene	91	11.182	11.182	0.000	98	2061016	5.00	4.88	
S 118 Xylenes, Total	106				0			14.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 m-Xylene & p-Xylene	106	11.292	11.292	0.000	89	1602419	10.0	9.81	
120 o-Xylene	106	11.627	11.621	0.006	96	781753	5.00	4.95	
121 Styrene	104	11.640	11.640	0.000	94	1274139	5.00	5.02	
122 Bromoform	173	11.792	11.792	0.000	97	228297	5.00	4.93	
123 Isopropylbenzene	105	11.926	11.926	0.000	96	2019868	5.00	4.94	
$ 126 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	91	1152627	10.0	10.1	
127 1,1,2,2-Tetrachloroethane	83	12.170	12.170	0.000	92	396881	5.00	4.79	
128 Bromobenzene	156	12.182	12.182	0.000	96	512831	5.00	4.75	
129 trans-1,4-Dichloro-2-butene	53	12.194	12.194	0.000	92	1070186	50.0	48.8	
130 1,2,3-Trichloropropane	110	12.219	12.213	0.006	82	103706	5.00	4.76	
131 N-Propylbenzene	91	12.255	12.249	0.006	99	2490507	5.00	4.83	
132 2-Chlorotoluene	126	12.329	12.329	0.000	97	506017	5.00	4.80	
133 1,3,5-Trimethylbenzene	105	12.390	12.390	0.000	94	1782346	5.00	4.89	
134 4-Chlorotoluene	126	12.420	12.420	0.000	97	533585	5.00	4.84	
135 tert-Butylbenzene	134	12.627	12.627	0.000	93	382200	5.00	4.77	
136 Pentachloroethane	167	12.664	12.658	0.006	92	325948	5.00	4.90	
137 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	97	1858149	5.00	4.91	
138 sec-Butylbenzene	105	12.792	12.792	0.000	94	2285978	5.00	4.90	
139 1,3-Dichlorobenzene	146	12.889	12.889	0.000	98	1059406	5.00	4.74	
140 4-Isopropyltoluene	119	12.902	12.896	0.006	97	2051911	5.00	4.99	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	94	1391974	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.963	12.963	0.000	95	1050231	5.00	4.73	
143 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	98	836008	5.00	4.80	
144 Benzyl chloride	126	13.042	13.042	0.000	98	163111	5.00	5.06	
145 p-Diethylbenzene	119	13.097	13.097	0.000	91	1219058	5.00	4.91	
146 n-Butylbenzene	92	13.188	13.188	0.000	97	1049248	5.00	4.91	
147 1,2-Dichlorobenzene	146	13.219	13.219	0.000	98	995135	5.00	4.76	
149 1,2-Dibromo-3-Chloropropane	155	13.761	13.761	0.000	87	55144	5.00	4.92	
150 1,3,5-Trichlorobenzene	180	13.883	13.883	0.000	98	867352	5.00	4.78	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	766061	5.00	4.83	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	97	389932	5.00	4.79	
153 Naphthalene	128	14.481	14.481	0.000	97	1298110	5.00	5.01	
154 1,2,3-Trichlorobenzene	180	14.621	14.627	-0.006	96	673972	5.00	4.89	
155 2-Methylnaphthalene	142	15.230	15.224	0.006	92	793549	5.00	5.19	
166 Pentane	43	2.928	2.922	0.006	96	539973	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

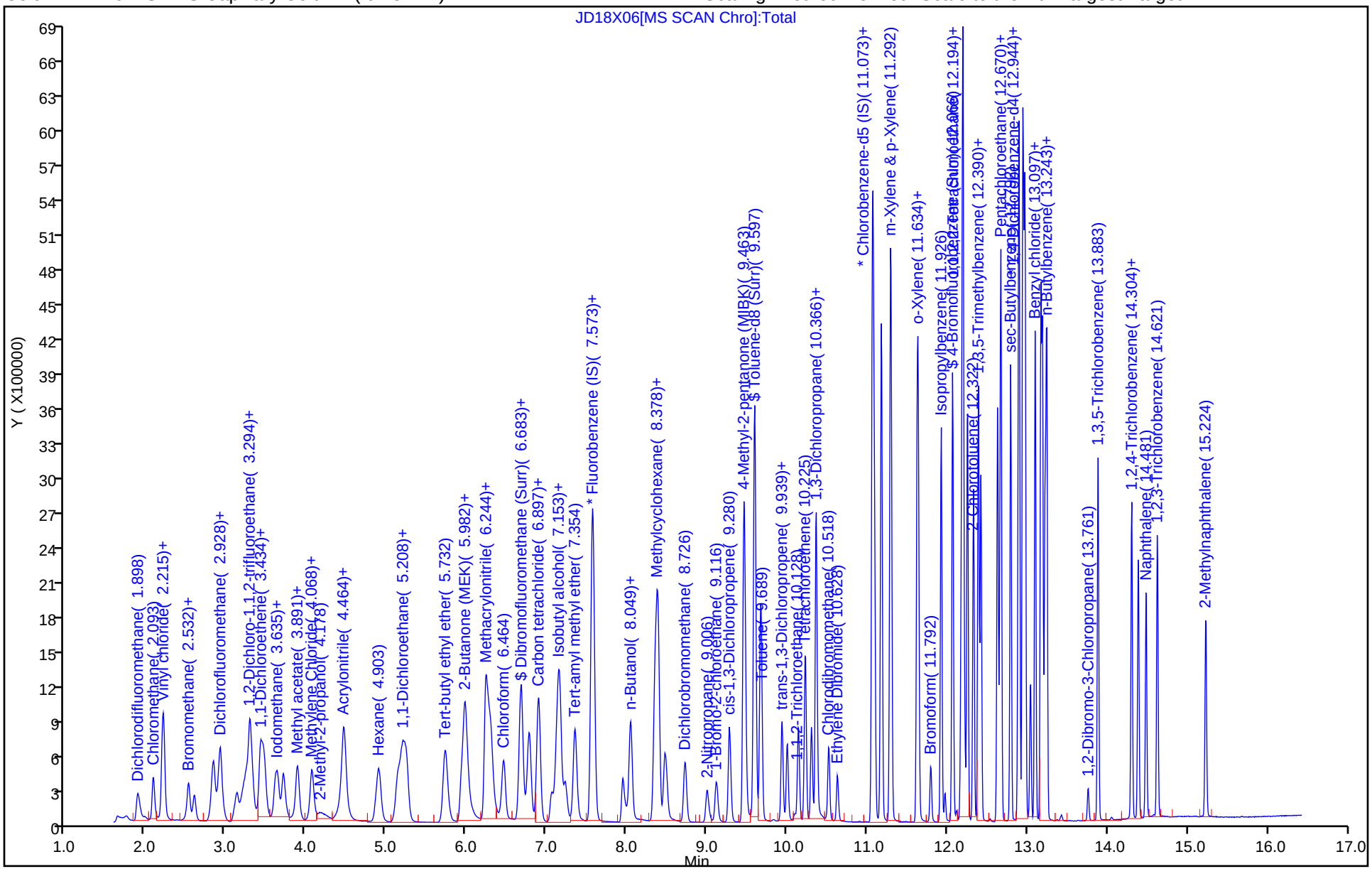
MSV_LL_#1_826_00065	Amount Added:	5.00	Units: uL	
MSV_LL_GAS826_00132	Amount Added:	5.00	Units: uL	
MSV_LL_#2_826_00071	Amount Added:	5.00	Units: uL	
MSV_29_826ISS_00037	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 18-Jan-2023 15:00:50 Chrom Revision: 2.3 09-Jan-2023 13:34:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X06.D				
Injection Date:	18-Jan-2023 12:09:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std5			Worklist Smp#:	7
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSV_16334_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: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

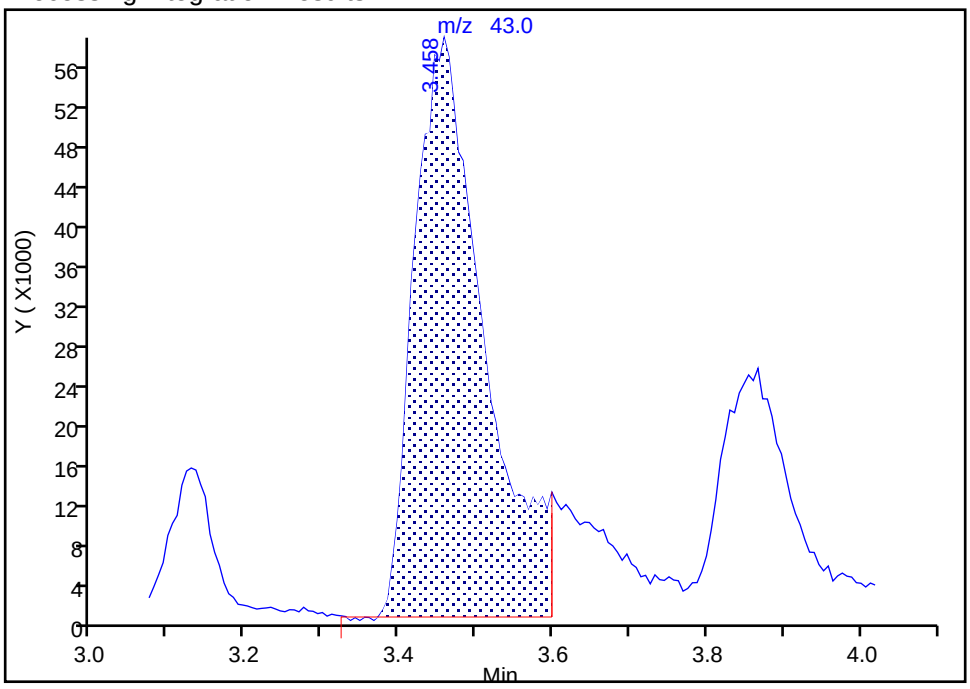
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X06.D				
Injection Date:	18-Jan-2023 12:09:30	Instrument ID:	16334		
Lims ID:	IC std5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Acetone, CAS: 67-64-1

Signal: 1

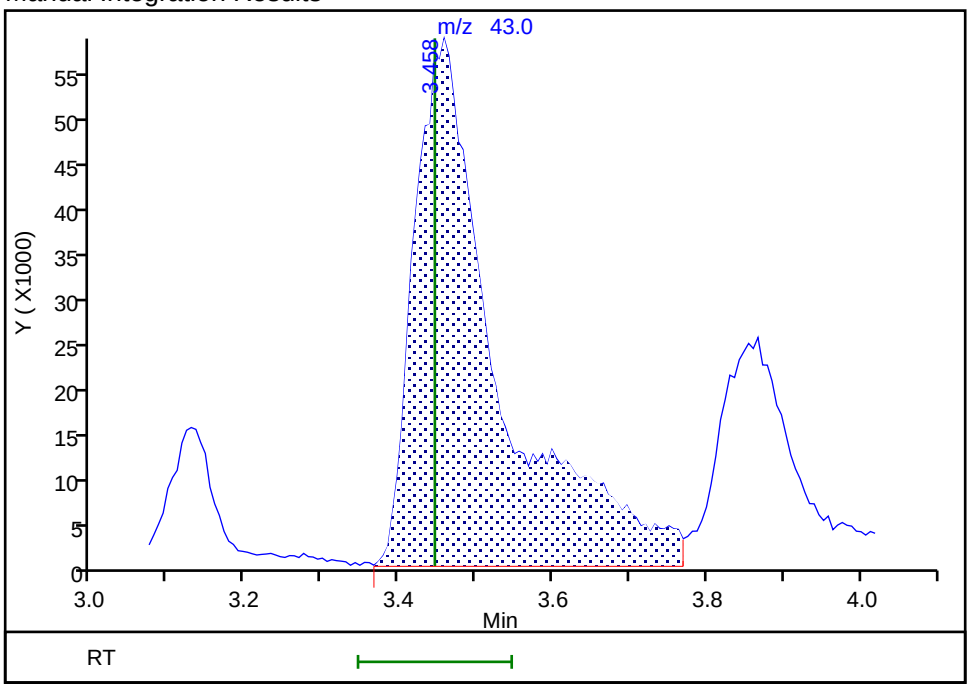
Processing Integration Results

RT: 3.46
Area: 366362
Amount: 36.201158
Amount Units: ug/l



Manual Integration Results

RT: 3.46
Area: 446349
Amount: 43.763640
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 12:31:03
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

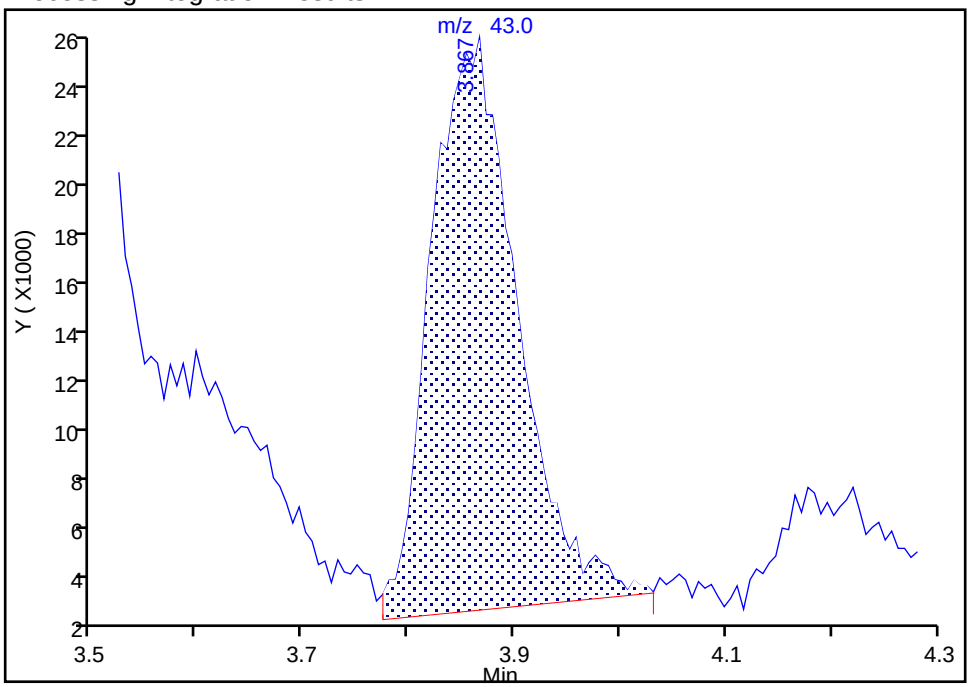
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X06.D				
Injection Date:	18-Jan-2023 12:09:30	Instrument ID:	16334		
Lims ID:	IC std5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Methyl acetate, CAS: 79-20-9

Signal: 1

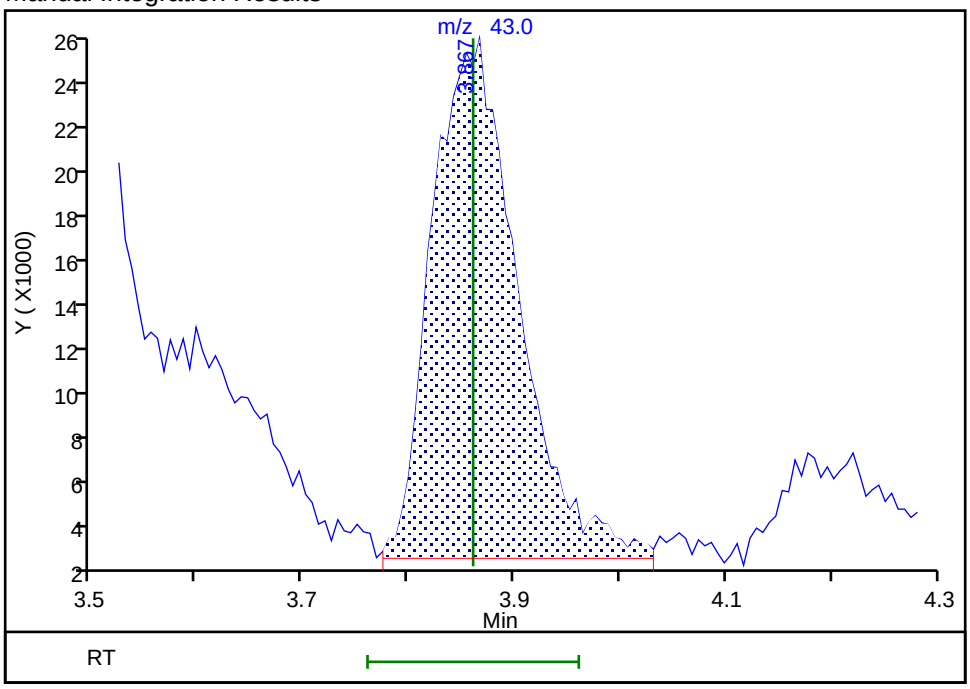
Processing Integration Results

RT: 3.87
Area: 130921
Amount: 4.053093
Amount Units: ug/l



Manual Integration Results

RT: 3.87
Area: 127013
Amount: 4.716790
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 12:31:55

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

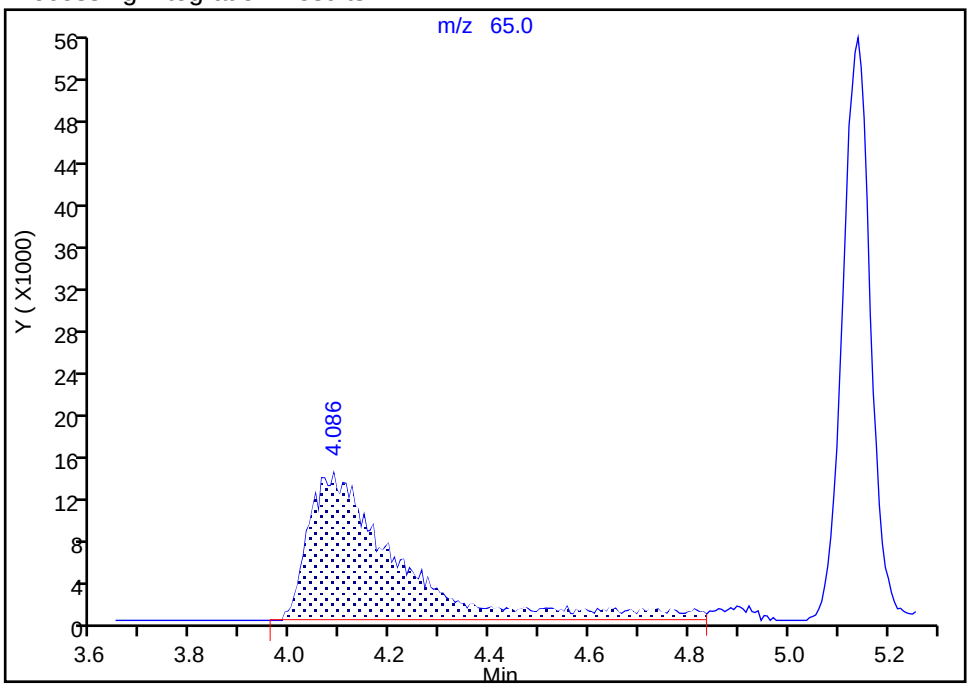
Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X06.D
Injection Date: 18-Jan-2023 12:09:30 Instrument ID: 16334
Lims ID: IC std5
Client ID:
Operator ID: knk41612 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

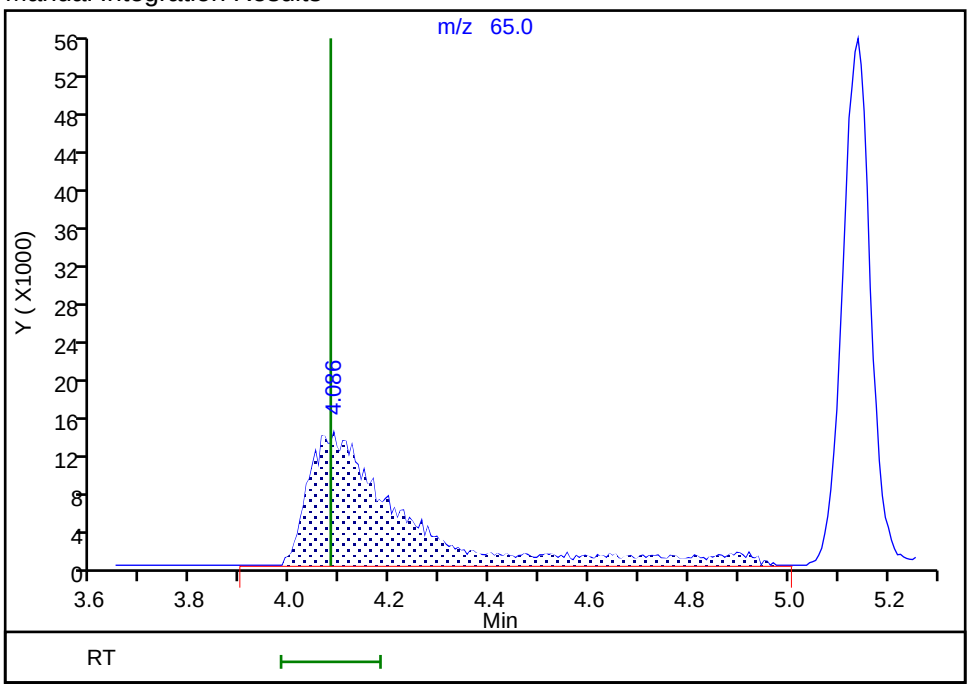
Processing Integration Results

RT: 4.09
Area: 175424
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.09
Area: 182187
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 12:32:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

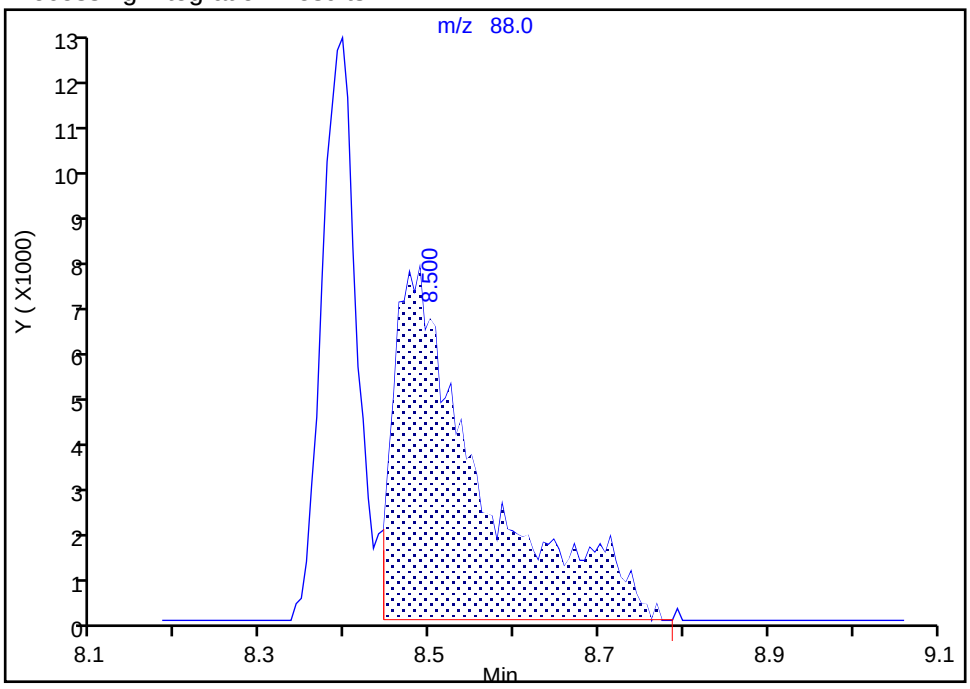
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X06.D				
Injection Date:	18-Jan-2023 12:09:30	Instrument ID:	16334		
Lims ID:	IC std5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

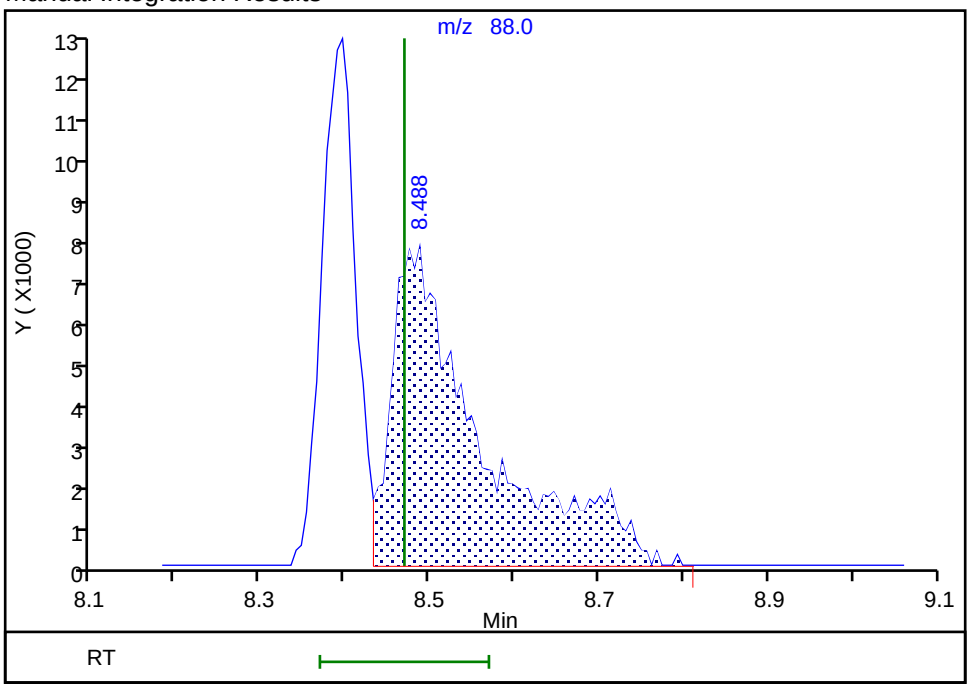
Processing Integration Results

RT: 8.50
Area: 53643
Amount: 255.9029
Amount Units: ug/l



Manual Integration Results

RT: 8.49
Area: 54969
Amount: 257.5878
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 12:32:42
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X07.D
Lims ID: ICIS std6
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 18-Jan-2023 12:31:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0075310-008
Misc. Info.: ICIS STD6
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jan-2023 15:03:48 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: DVW2 Date: 18-Jan-2023 15:03:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.898	1.898	0.000	99	928789	10.0	8.69	
5 Chloromethane	50	2.093	2.093	0.000	99	1104890	10.0	8.92	
6 Vinyl chloride	62	2.203	2.203	0.000	98	1059264	10.0	8.98	
7 Butadiene	39	2.221	2.221	0.000	91	915751	10.0	9.82	
9 Bromomethane	94	2.532	2.532	0.000	90	714465	10.0	9.17	
10 Chloroethane	64	2.605	2.605	0.000	100	610002	10.0	9.02	
11 Dichlorofluoromethane	67	2.843	2.843	0.000	97	1426101	10.0	9.08	
12 Trichlorofluoromethane	101	2.904	2.904	0.000	97	1326329	10.0	8.91	
13 Ethyl ether	59	3.135	3.135	0.000	91	585970	10.0	9.26	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.227	3.227	0.000	92	843985	10.0	8.92	
17 Acrolein	56	3.300	3.300	0.000	100	4184754	500.0	522.0	
18 1,1-Dichloroethene	96	3.434	3.434	0.000	98	664696	10.0	9.09	
20 Acetone	43	3.458	3.458	0.000	97	890560	100.0	88.4	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.477	3.477	0.000	92	634536	10.0	9.05	
24 Isopropyl alcohol	45	3.611	3.611	0.000	35	278170	200.0	170.4	
21 Iodomethane	142	3.617	3.617	0.000	99	1180362	10.0	9.54	
22 Ethyl bromide	108	3.647	3.647	0.000	98	599950	10.0	9.30	
23 Carbon disulfide	76	3.715	3.715	0.000	99	2102361	10.0	9.63	
25 Methyl acetate	43	3.861	3.861	0.000	97	265243	10.0	10.2	
27 3-Chloro-1-propene	41	3.891	3.891	0.000	92	1096059	10.0	9.70	
29 Methylene Chloride	84	4.074	4.074	0.000	92	764843	10.0	9.40	
* 30 t-Butyl alcohol-d10 (IS)	65	4.099	4.099	0.000	84	179954	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.202	4.202	0.000	100	637800	200.0	164.4	
32 Acrylonitrile	53	4.403	4.403	0.000	96	336482	25.0	24.2	
33 Methyl tert-butyl ether	73	4.464	4.464	0.000	96	1950668	10.0	9.83	
34 trans-1,2-Dichloroethene	96	4.477	4.477	0.000	99	782485	10.0	9.45	
35 Hexane	57	4.909	4.909	0.000	92	968104	10.0	9.22	
37 1,1-Dichloroethane	63	5.141	5.141	0.000	96	1397433	10.0	9.54	
38 Isopropyl ether	45	5.202	5.202	0.000	94	2497297	10.0	9.85	
39 2-Chloro-1,3-butadiene	53	5.245	5.245	0.000	91	1094221	10.0	9.76	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.739	5.739	0.000	98	2349146	10.0	9.89	
41 2-Butanone (MEK)	43	5.940	5.940	0.000	100	1892550	100.0	95.8	
42 cis-1,2-Dichloroethene	96	5.976	5.976	0.000	82	863838	10.0	9.44	
43 2,2-Dichloropropane	77	5.995	5.995	0.000	87	1151782	10.0	9.58	
45 Propionitrile	54	6.031	6.031	0.000	99	903110	200.0	190.9	
48 Methacrylonitrile	67	6.251	6.251	0.000	92	2008227	100.0	99.5	
49 Chlorobromomethane	128	6.305	6.305	0.000	93	389661	10.0	9.70	
50 Tetrahydrofuran	71	6.312	6.312	0.000	90	274792	50.0	49.3	
51 Chloroform	83	6.464	6.464	0.000	93	1409810	10.0	9.58	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.677	0.000	93	752953	10.0	9.98	
53 1,1,1-Trichloroethane	97	6.690	6.690	0.000	98	1190370	10.0	9.39	
54 Cyclohexane	56	6.781	6.781	0.000	91	1199080	10.0	9.29	
56 Carbon tetrachloride	117	6.897	6.897	0.000	96	1057293	10.0	9.48	
57 1,1-Dichloropropene	75	6.903	6.903	0.000	97	1075923	10.0	9.56	
58 Isobutyl alcohol	41	7.068	7.068	0.000	94	583006	500.0	457.2	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.135	7.135	0.000	86	153841	10.0	9.85	
60 Benzene	78	7.165	7.165	0.000	97	3239328	10.0	9.52	
61 1,2-Dichloroethane	62	7.238	7.238	0.000	97	902673	10.0	9.43	
63 Tert-amyl methyl ether	73	7.354	7.354	0.000	99	2172263	10.0	10.0	
* 64 Fluorobenzene (IS)	96	7.574	7.574	0.000	99	3141631	10.0	10.0	
65 n-Heptane	43	7.586	7.586	0.000	91	1059204	10.0	8.90	
67 n-Butanol	56	7.952	7.952	0.000	89	939274	875.0	877.5	
68 Trichloroethene	95	8.049	8.049	0.000	98	870050	10.0	9.47	
69 Methylcyclohexane	83	8.354	8.354	0.000	93	1314974	10.0	9.35	
70 1,2-Dichloropropane	63	8.384	8.384	0.000	87	852342	10.0	9.63	
71 2-ethoxy-2-methyl butane	87	8.390	8.390	0.000	92	1251880	10.0	10.0	
72 Methyl methacrylate	69	8.470	8.470	0.000	90	390710	10.0	10.2	
74 1,4-Dioxane	88	8.476	8.476	0.000	32	98968	500.0	468.8	M
73 Dibromomethane	93	8.488	8.488	0.000	95	412624	10.0	9.70	
76 Dichlorobromomethane	83	8.726	8.726	0.000	100	1040662	10.0	9.82	
77 2-Nitropropane	41	9.006	9.006	0.000	98	548096	50.0	48.3	
79 1-Bromo-2-chloroethane	63	9.122	9.122	0.000	98	884309	10.0	9.61	
81 cis-1,3-Dichloropropene	75	9.281	9.281	0.000	96	1338662	10.0	10.2	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	97	5481647	100.0	101.9	
$ 83 Toluene-d8 (Surr)	98	9.598	9.598	0.000	93	3136779	10.0	9.97	
84 Toluene	92	9.677	9.677	0.000	98	2119529	10.0	9.57	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	92	1156533	10.0	10.1	
104 Ethyl methacrylate	69	10.006	10.006	0.000	89	876796	10.0	10.8	
106 1,1,2-Trichloroethane	97	10.140	10.140	0.000	91	610558	10.0	9.41	
107 Tetrachloroethene	166	10.232	10.232	0.000	97	989722	10.0	9.50	
108 1,3-Dichloropropane	76	10.305	10.305	0.000	90	1047034	10.0	9.69	
109 2-Hexanone	43	10.366	10.366	0.000	97	3998743	100.0	103.8	
111 Chlorodibromomethane	129	10.524	10.524	0.000	90	778642	10.0	10.1	
112 Ethylene Dibromide	107	10.628	10.628	0.000	99	583506	10.0	9.75	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	85	2381599	10.0	10.0	
114 1-Chlorohexane	91	11.079	11.079	0.000	97	1181111	10.0	9.37	
115 Chlorobenzene	112	11.091	11.091	0.000	95	2492329	10.0	9.52	
117 1,1,1,2-Tetrachloroethane	131	11.176	11.176	0.000	95	857193	10.0	9.83	
116 Ethylbenzene	91	11.183	11.183	0.000	98	4207251	10.0	9.83	
119 m-Xylene & p-Xylene	106	11.298	11.298	0.000	89	3267447	20.0	19.7	
120 o-Xylene	106	11.628	11.628	0.000	96	1592922	10.0	9.94	
121 Styrene	104	11.640	11.640	0.000	95	2708231	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
122 Bromoform	173	11.792	11.792	0.000	97	480944	10.0	10.3	
123 Isopropylbenzene	105	11.926	11.926	0.000	96	4121127	10.0	9.94	
$ 126 4-Bromofluorobenzene (Surr)	95	12.067	12.067	0.000	92	1164354	10.0	10.1	
127 1,1,2,2-Tetrachloroethane	83	12.170	12.170	0.000	92	814594	10.0	9.78	
128 Bromobenzene	156	12.182	12.182	0.000	95	1046968	10.0	9.63	
129 trans-1,4-Dichloro-2-butene	53	12.195	12.195	0.000	92	2208197	100.0	102.0	
130 1,2,3-Trichloropropane	110	12.219	12.219	0.000	81	209905	10.0	9.58	
131 N-Propylbenzene	91	12.256	12.256	0.000	99	5049602	10.0	9.73	
132 2-Chlorotoluene	126	12.329	12.329	0.000	97	1038481	10.0	9.79	
133 1,3,5-Trimethylbenzene	105	12.390	12.390	0.000	94	3658098	10.0	9.97	
134 4-Chlorotoluene	126	12.420	12.420	0.000	98	1081057	10.0	9.75	
135 tert-Butylbenzene	134	12.627	12.627	0.000	93	768602	10.0	9.54	
136 Pentachloroethane	167	12.664	12.664	0.000	92	669101	10.0	10.0	
137 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	97	3826017	10.0	10.1	
138 sec-Butylbenzene	105	12.792	12.792	0.000	94	4660190	10.0	9.93	
139 1,3-Dichlorobenzene	146	12.890	12.890	0.000	98	2170679	10.0	9.65	
140 4-Isopropyltoluene	119	12.896	12.896	0.000	97	4170731	10.0	10.1	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	94	1400357	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.963	12.963	0.000	95	2125078	10.0	9.52	
143 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	98	1695114	10.0	9.68	
144 Benzyl chloride	126	13.042	13.042	0.000	98	342793	10.0	10.6	
145 p-Diethylbenzene	119	13.097	13.097	0.000	92	2492593	10.0	9.99	
146 n-Butylbenzene	92	13.188	13.188	0.000	95	2118844	10.0	9.86	
147 1,2-Dichlorobenzene	146	13.219	13.219	0.000	99	2043505	10.0	9.73	
149 1,2-Dibromo-3-Chloropropane	155	13.761	13.761	0.000	87	114302	10.0	10.1	
150 1,3,5-Trichlorobenzene	180	13.883	13.883	0.000	98	1769210	10.0	9.70	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	1555068	10.0	9.75	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	97	796868	10.0	9.73	
153 Naphthalene	128	14.481	14.481	0.000	97	2635063	10.0	10.1	
154 1,2,3-Trichlorobenzene	180	14.621	14.621	0.000	96	1356066	10.0	9.79	
155 2-Methylnaphthalene	142	15.224	15.224	0.000	92	1649504	10.0	10.7	
166 Pentane	43	2.934	2.934	0.000	97	986582	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00065	Amount Added: 10.00	Units: uL	
MSV_LL_GAS826_00132	Amount Added: 10.00	Units: uL	
MSV_LL_#2_826_00071	Amount Added: 10.00	Units: uL	
MSV_29_826ISS_00037	Amount Added: 1.00	Units: uL	Run Reagent

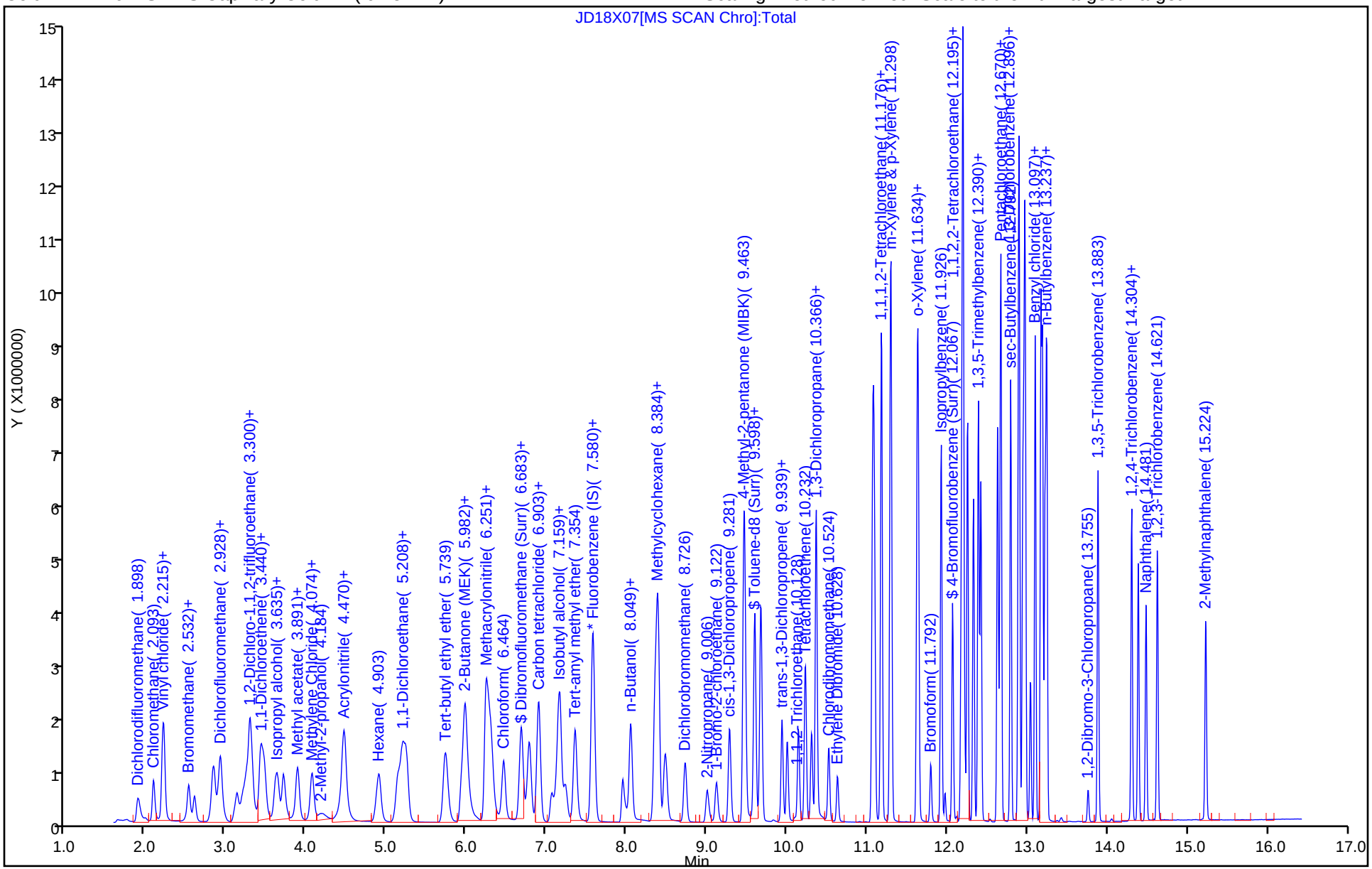
Report Date: 18-Jan-2023 15:03:49 Chrom Revision: 2.3 09-Jan-2023 13:34:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X07.D

Injection Date:	18-Jan-2023 12:31:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	ICIS std6			Worklist Smp#:	8
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSV_16334_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: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

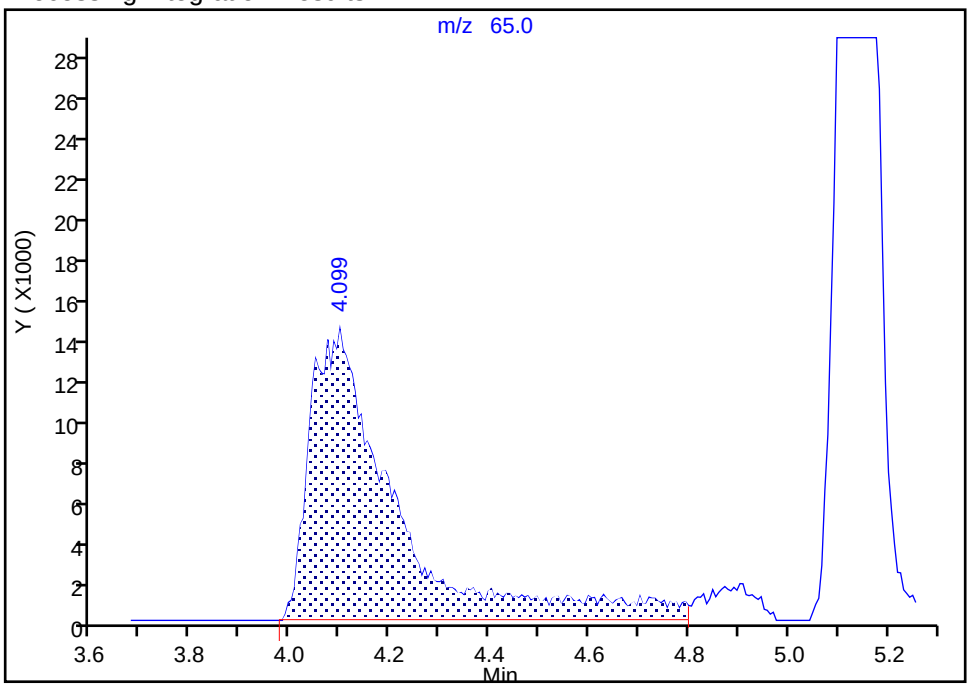
Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X07.D
Injection Date: 18-Jan-2023 12:31:30 Instrument ID: 16334
Lims ID: ICIS std6
Client ID:
Operator ID: knk41612 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

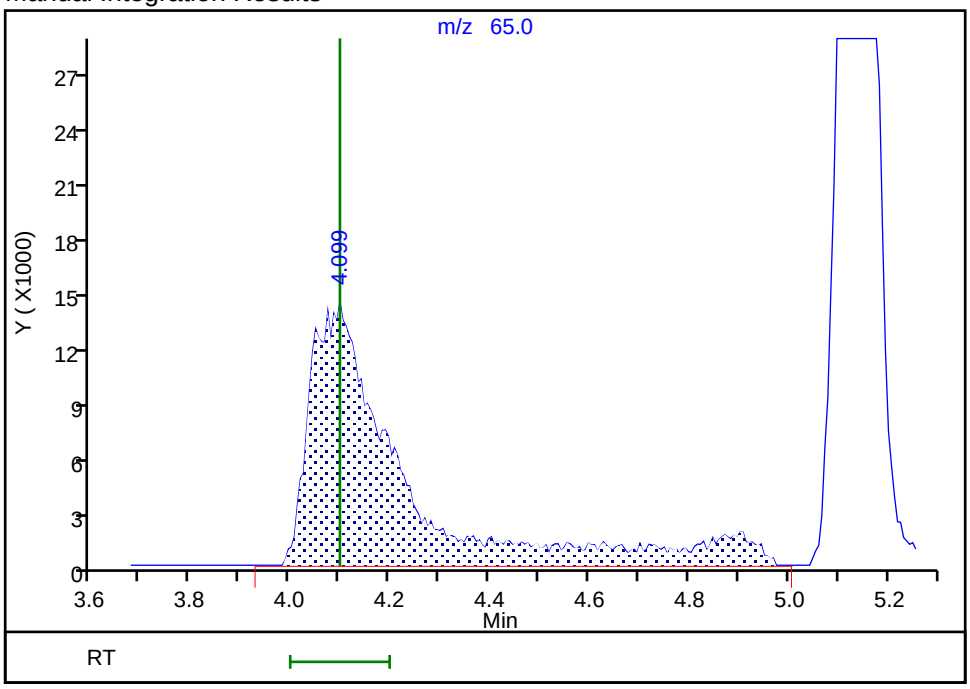
Processing Integration Results

RT: 4.10
Area: 168038
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.10
Area: 179954
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 12:58:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

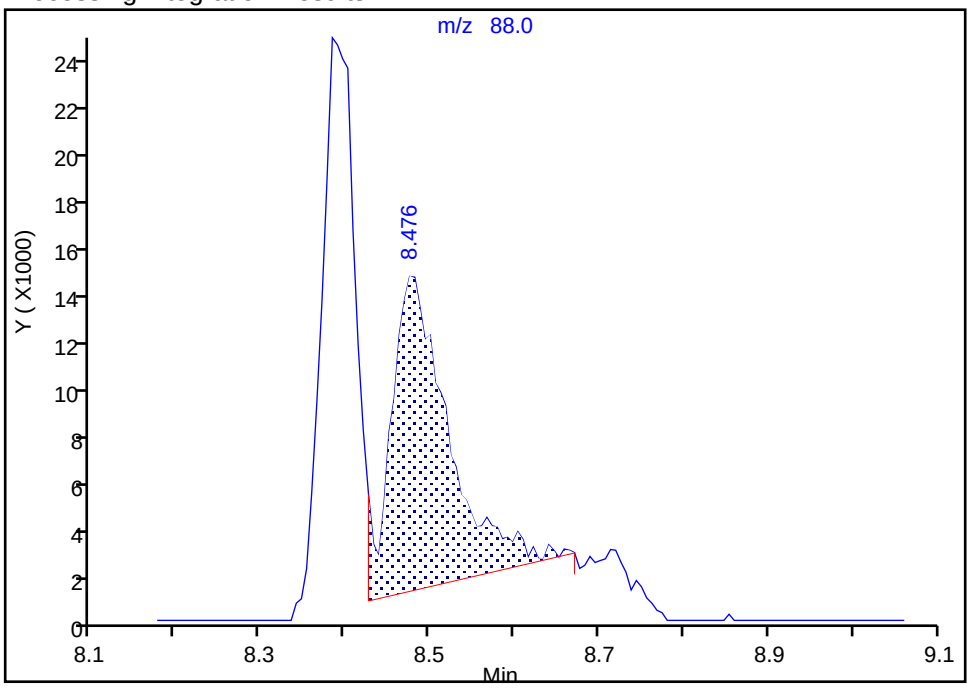
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X07.D				
Injection Date:	18-Jan-2023 12:31:30	Instrument ID:	16334		
Lims ID:	ICIS std6				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

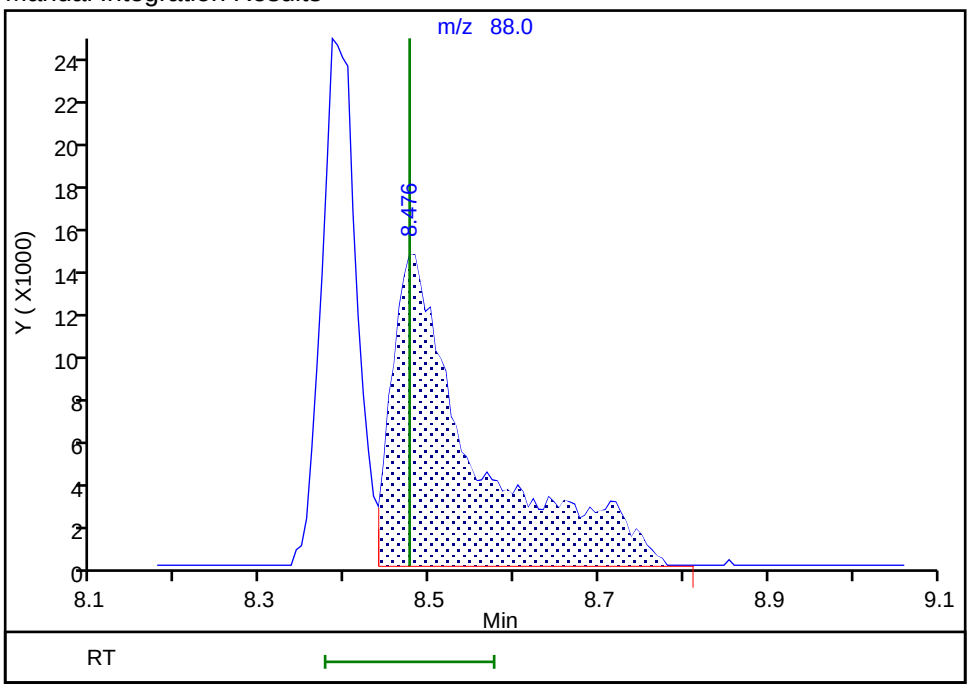
Processing Integration Results

RT: 8.48
Area: 62987
Amount: 323.9852
Amount Units: ug/l



Manual Integration Results

RT: 8.48
Area: 98968
Amount: 468.8177
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 12:58:46
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D
Lims ID: IC std7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 18-Jan-2023 12:53:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0075310-009
Misc. Info.: IC STD7
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jan-2023 15:00:57 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: DVW2 Date: 18-Jan-2023 13:18:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.898	1.892	0.006	99	2328426	25.0	21.3	
5 Chloromethane	50	2.093	2.081	0.012	99	2724111	25.0	21.6	
6 Vinyl chloride	62	2.202	2.190	0.012	98	2716946	25.0	22.6	
7 Butadiene	39	2.221	2.203	0.018	91	2349520	25.0	25.0	
9 Bromomethane	94	2.532	2.520	0.012	90	1818283	25.0	22.9	
10 Chloroethane	64	2.605	2.599	0.006	100	1542058	25.0	22.3	
11 Dichlorofluoromethane	67	2.843	2.824	0.019	97	3628895	25.0	22.6	
12 Trichlorofluoromethane	101	2.904	2.898	0.006	97	3485405	25.0	23.0	
13 Ethyl ether	59	3.123	3.123	0.000	91	1521425	25.0	23.6	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.233	3.202	0.031	92	2203378	25.0	22.8	
17 Acrolein	56	3.294	3.294	0.000	99	10555358	1249.9	1273.4	
18 1,1-Dichloroethene	96	3.428	3.416	0.012	98	1694490	25.0	22.7	
20 Acetone	43	3.452	3.446	0.006	100	2172350	250.0	208.6	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.470	3.464	0.006	92	1655322	25.0	23.1	
24 Isopropyl alcohol	45	3.605	3.605	0.000	35	706096	500.0	423.9	
21 Iodomethane	142	3.617	3.605	0.012	99	3002136	25.0	23.8	
22 Ethyl bromide	108	3.647	3.635	0.012	98	1532259	25.0	23.3	
23 Carbon disulfide	76	3.708	3.702	0.006	99	5376366	25.0	24.1	
25 Methyl acetate	43	3.855	3.861	-0.006	97	667890	25.0	25.0	M
27 3-Chloro-1-propene	41	3.885	3.885	0.000	92	2814606	25.0	24.4	
29 Methylene Chloride	84	4.068	4.062	0.006	92	1916015	25.0	23.1	
* 30 t-Butyl alcohol-d10 (IS)	65	4.086	4.080	0.006	84	186059	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.202	4.202	0.000	100	1561867	500.0	389.3	
32 Acrylonitrile	53	4.397	4.403	-0.006	100	870094	62.5	60.5	
33 Methyl tert-butyl ether	73	4.458	4.452	0.006	95	4891435	25.0	24.2	
34 trans-1,2-Dichloroethene	96	4.464	4.464	0.000	99	1983582	25.0	23.5	
35 Hexane	57	4.903	4.891	0.012	95	2538771	25.0	23.7	
37 1,1-Dichloroethane	63	5.135	5.129	0.006	96	3534728	25.0	23.6	
38 Isopropyl ether	45	5.202	5.190	0.012	94	6319633	25.0	24.4	
39 2-Chloro-1,3-butadiene	53	5.245	5.245	0.000	91	2852406	25.0	24.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.738	5.726	0.012	98	5996413	25.0	24.8	
41 2-Butanone (MEK)	43	5.933	5.934	-0.001	100	4649731	250.0	227.6	
42 cis-1,2-Dichloroethene	96	5.976	5.970	0.006	82	2184508	25.0	23.4	
43 2,2-Dichloropropane	77	5.988	5.982	0.006	87	2929270	25.0	23.9	
45 Propionitrile	54	6.025	6.031	-0.006	99	2277688	500.0	465.7	
S 47 1,2-Dichloroethene, Total	100				0			46.9	
48 Methacrylonitrile	67	6.244	6.238	0.006	93	4951789	250.0	237.4	
49 Chlorobromomethane	128	6.305	6.299	0.006	96	984525	25.0	24.0	
50 Tetrahydrofuran	71	6.305	6.305	0.000	79	654907	125.0	113.6	
51 Chloroform	83	6.464	6.458	0.006	93	3579889	25.0	23.8	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	95	774679	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.683	6.683	0.000	98	3054460	25.0	23.6	
54 Cyclohexane	56	6.781	6.781	0.000	90	3153687	25.0	23.9	
56 Carbon tetrachloride	117	6.897	6.891	0.006	96	2753293	25.0	24.2	
57 1,1-Dichloropropene	75	6.903	6.897	0.006	98	2771459	25.0	24.1	
58 Isobutyl alcohol	41	7.067	7.055	0.012	95	1445035	1250.0	1110.8	M
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.134	7.128	0.006	74	157568	10.0	9.89	
60 Benzene	78	7.159	7.159	0.000	96	8133583	25.0	23.4	
61 1,2-Dichloroethane	62	7.232	7.226	0.006	98	2243219	25.0	23.0	
63 Tert-amyl methyl ether	73	7.354	7.348	0.006	98	5524666	25.0	24.9	
* 64 Fluorobenzene (IS)	96	7.567	7.567	0.000	99	3205211	10.0	10.0	
65 n-Heptane	43	7.586	7.580	0.006	94	2787086	25.0	22.9	
67 n-Butanol	56	7.951	7.951	0.000	89	2432511	2187.5	2198.0	
68 Trichloroethene	95	8.049	8.043	0.006	98	2204209	25.0	23.5	
69 Methylcyclohexane	83	8.354	8.354	0.000	93	3469551	25.0	24.2	
70 1,2-Dichloropropane	63	8.384	8.372	0.012	88	2174727	25.0	24.1	
71 2-ethoxy-2-methyl butane	87	8.396	8.390	0.006	93	3239146	25.0	25.4	
72 Methyl methacrylate	69	8.470	8.470	0.000	90	1062945	25.0	26.8	
74 1,4-Dioxane	88	8.470	8.470	0.000	30	271238	1250.0	1241.3	M
73 Dibromomethane	93	8.488	8.482	0.006	95	1024527	25.0	23.6	
76 Dichlorobromomethane	83	8.726	8.726	0.000	100	2675209	25.0	24.7	
77 2-Nitropropane	41	9.006	9.000	0.006	98	1358222	125.0	115.7	
79 1-Bromo-2-chloroethane	63	9.122	9.116	0.006	99	2235725	25.0	23.8	
81 cis-1,3-Dichloropropene	75	9.280	9.280	0.000	96	3404390	25.0	25.5	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	96	13439758	250.0	241.7	
$ 83 Toluene-d8 (Surr)	98	9.597	9.597	0.000	93	3228897	10.0	10.1	
84 Toluene	92	9.677	9.671	0.006	98	5392577	25.0	23.9	
85 trans-1,3-Dichloropropene	75	9.939	9.933	0.006	92	2980473	25.0	25.5	
104 Ethyl methacrylate	69	10.000	10.000	0.000	89	2306647	25.0	27.8	
S 105 1,3-Dichloropropene, Total	100				0			51.0	
106 1,1,2-Trichloroethane	97	10.140	10.140	0.000	90	1528658	25.0	23.1	
107 Tetrachloroethene	166	10.231	10.225	0.006	98	2510315	25.0	23.6	
108 1,3-Dichloropropane	76	10.305	10.305	0.000	90	2658311	25.0	24.1	
109 2-Hexanone	43	10.365	10.366	-0.001	96	9874078	250.0	247.9	
111 Chlorodibromomethane	129	10.524	10.518	0.006	90	2011183	25.0	25.7	
112 Ethylene Dibromide	107	10.628	10.628	0.000	99	1488141	25.0	24.4	
* 113 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	85	2429581	10.0	10.0	
114 1-Chlorohexane	91	11.079	11.079	0.000	97	3054692	25.0	23.7	
115 Chlorobenzene	112	11.091	11.091	0.000	95	6256974	25.0	23.4	
117 1,1,1,2-Tetrachloroethane	131	11.176	11.176	0.000	96	2214704	25.0	24.9	
116 Ethylbenzene	91	11.182	11.182	0.000	98	10678380	25.0	24.5	
S 118 Xylenes, Total	106				0			74.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 m-Xylene & p-Xylene	106	11.292	11.292	0.000	90	8352945	50.0	49.5	e
120 o-Xylene	106	11.627	11.621	0.006	96	4110233	25.0	25.1	
121 Styrene	104	11.640	11.640	0.000	94	7008678	25.0	26.7	
122 Bromoform	173	11.792	11.792	0.000	97	1283779	25.0	26.8	
123 Isopropylbenzene	105	11.926	11.926	0.000	96	10477753	25.0	24.8	
$ 126 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	91	1195617	10.0	10.1	
127 1,1,2,2-Tetrachloroethane	83	12.170	12.170	0.000	92	2066729	25.0	23.8	
128 Bromobenzene	156	12.182	12.182	0.000	95	2679969	25.0	23.6	
129 trans-1,4-Dichloro-2-butene	53	12.194	12.194	0.000	92	5709433	250.0	255.0	
130 1,2,3-Trichloropropane	110	12.219	12.213	0.006	81	534930	25.0	23.4	
131 N-Propylbenzene	91	12.255	12.249	0.006	98	12557283	25.0	23.2	e
132 2-Chlorotoluene	126	12.329	12.329	-0.001	97	2645117	25.0	23.9	
133 1,3,5-Trimethylbenzene	105	12.389	12.390	-0.001	94	9375574	25.0	24.5	
134 4-Chlorotoluene	126	12.420	12.420	0.000	97	2756448	25.0	23.8	
135 tert-Butylbenzene	134	12.627	12.627	0.000	93	2051580	25.0	24.4	
136 Pentachloroethane	167	12.658	12.658	0.000	94	1793272	25.0	25.7	
137 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	97	9864337	25.0	24.8	
138 sec-Butylbenzene	105	12.792	12.792	0.000	94	11730063	25.0	24.0	e
139 1,3-Dichlorobenzene	146	12.889	12.889	0.000	98	5560749	25.0	23.7	
140 4-Isopropyltoluene	119	12.902	12.896	0.006	97	10716032	25.0	24.8	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	93	1461749	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.963	12.963	0.000	95	5465631	25.0	23.4	
143 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	98	4450158	25.0	24.3	
144 Benzyl chloride	126	13.042	13.042	0.000	98	910948	25.0	26.9	
145 p-Diethylbenzene	119	13.097	13.097	0.000	91	6463895	25.0	24.8	
146 n-Butylbenzene	92	13.188	13.188	0.000	98	5469805	25.0	24.4	
147 1,2-Dichlorobenzene	146	13.219	13.219	0.000	98	5220069	25.0	23.8	
149 1,2-Dibromo-3-Chloropropane	155	13.761	13.761	0.000	88	305229	25.0	25.9	
150 1,3,5-Trichlorobenzene	180	13.883	13.883	0.000	98	4478314	25.0	23.5	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	3984027	25.0	23.9	
152 Hexachlorobutadiene	225	14.389	14.383	0.006	97	2004431	25.0	23.4	
153 Naphthalene	128	14.481	14.481	0.000	97	6751026	25.0	24.8	
154 1,2,3-Trichlorobenzene	180	14.621	14.627	-0.006	96	3444502	25.0	23.8	
155 2-Methylnaphthalene	142	15.224	15.224	0.000	92	4216489	25.0	26.3	
166 Pentane	43	2.928	2.922	0.006	96	2617220	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

Reagents:

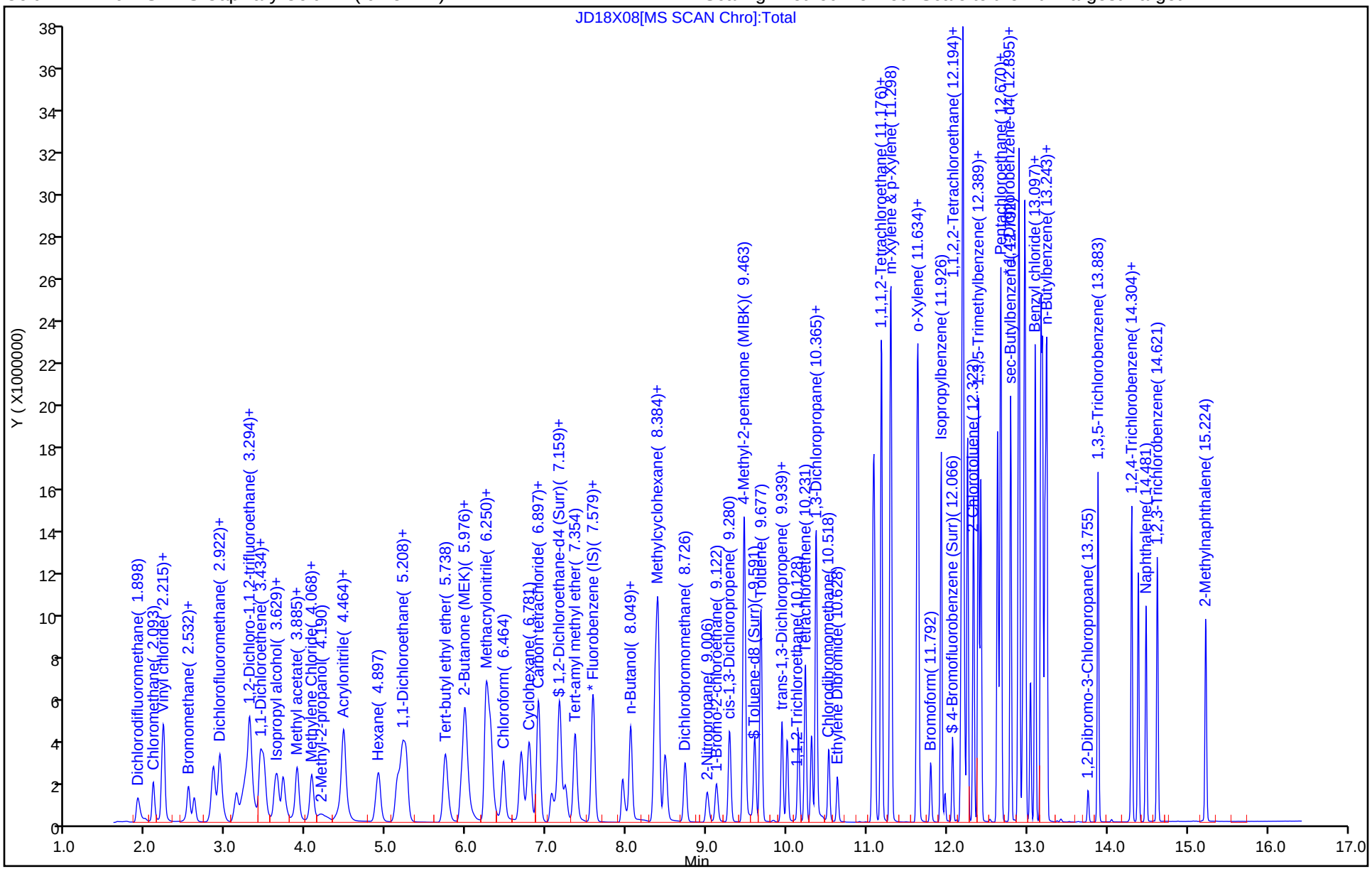
MSV_LL_#1_826_00065	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00132	Amount Added: 25.00	Units: uL	
MSV_LL_#2_826_00071	Amount Added: 25.00	Units: uL	
MSV_29_826ISS_00037	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 18-Jan-2023 15:00:58 Chrom Revision: 2.3 09-Jan-2023 13:34:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Injection Date:	18-Jan-2023 12:53:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	IC std7			Worklist Smp#:	9
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSV_16334_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: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

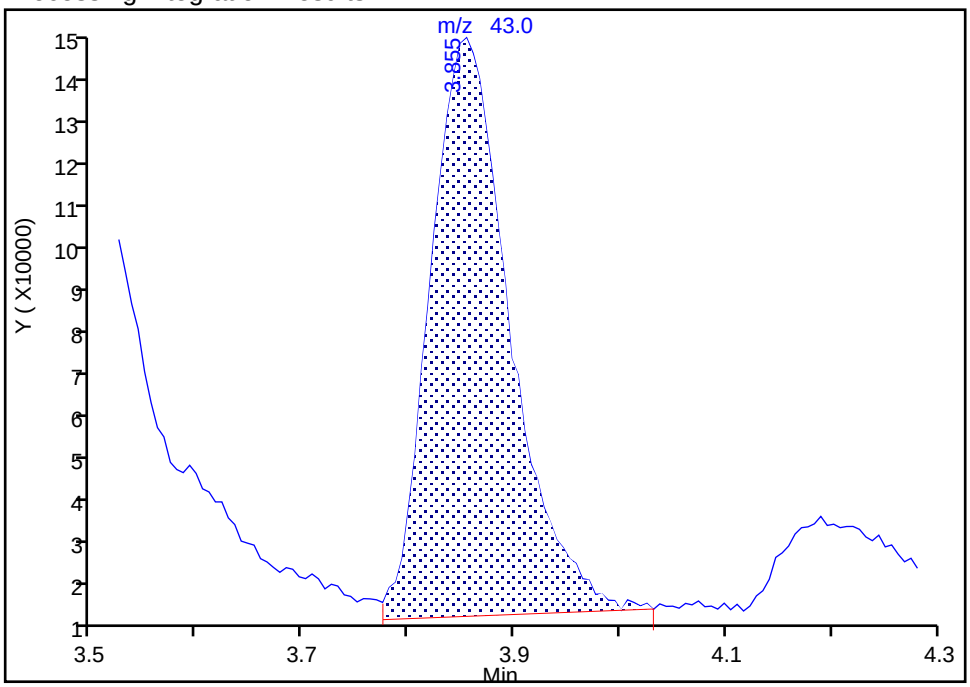
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Injection Date:	18-Jan-2023 12:53:30	Instrument ID:	16334		
Lims ID:	IC std7				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Methyl acetate, CAS: 79-20-9

Signal: 1

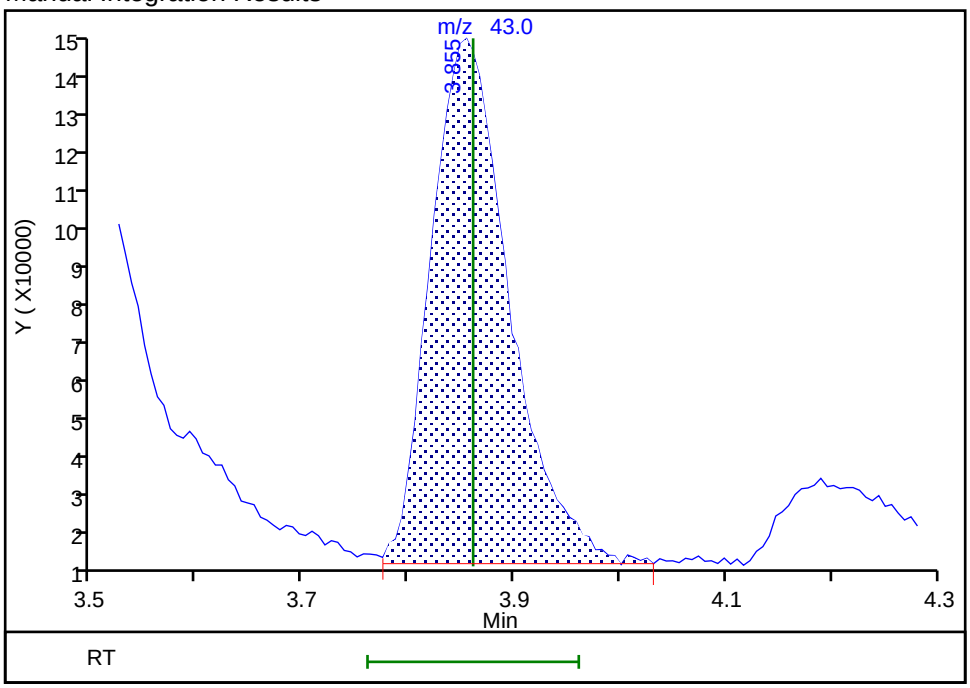
Processing Integration Results

RT: 3.85
Area: 683651
Amount: 23.805605
Amount Units: ug/l



Manual Integration Results

RT: 3.85
Area: 667890
Amount: 24.982204
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 13:16:34
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

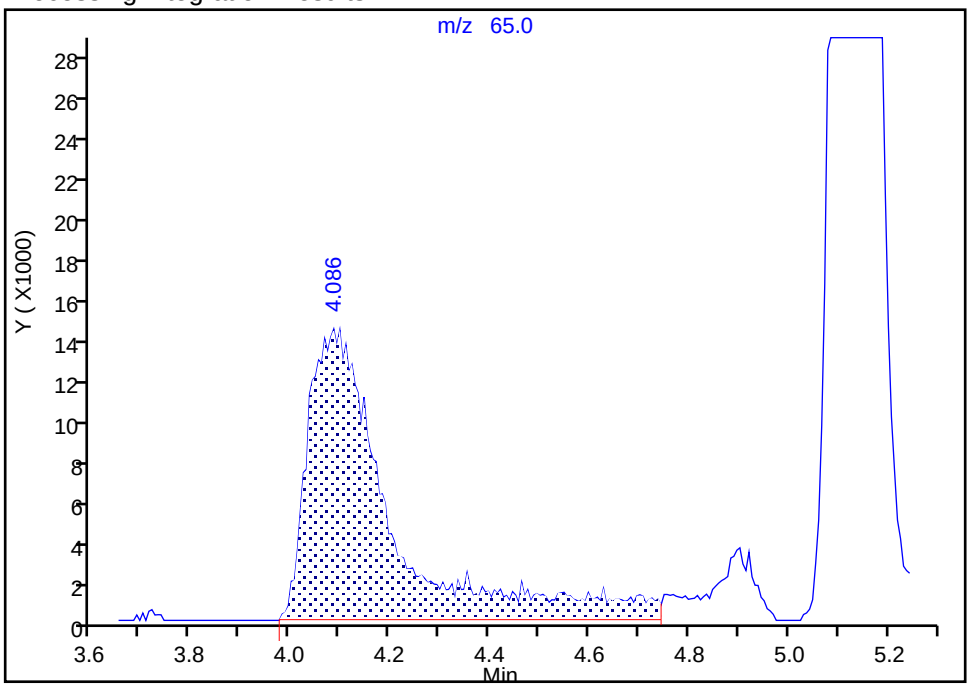
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Injection Date:	18-Jan-2023 12:53:30	Instrument ID:	16334		
Lims ID:	IC std7				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

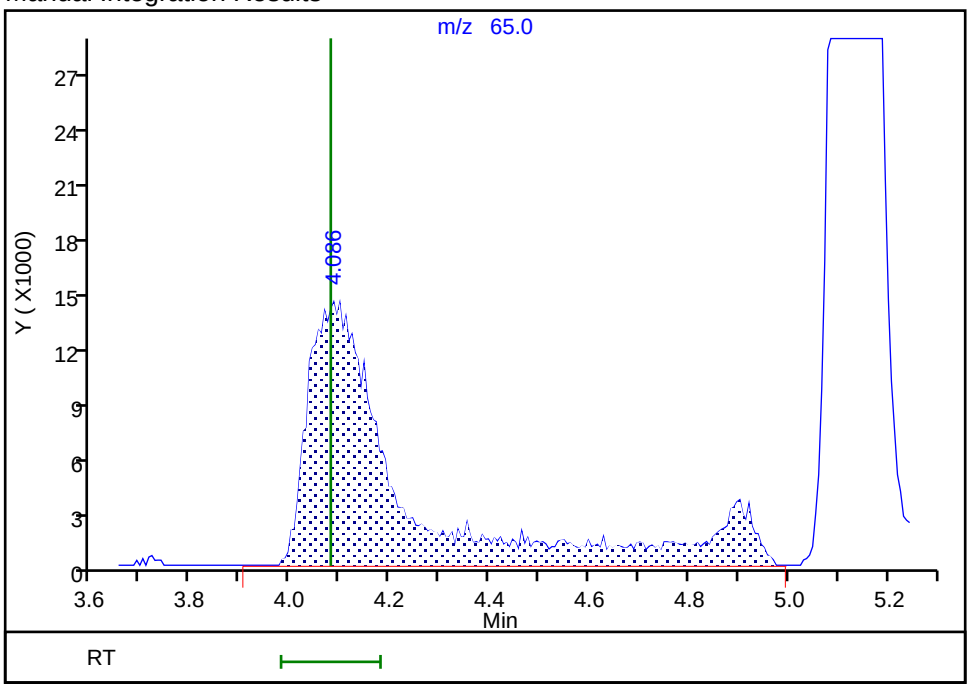
Processing Integration Results

RT: 4.09
Area: 164123
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.09
Area: 186059
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 13:16:42

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

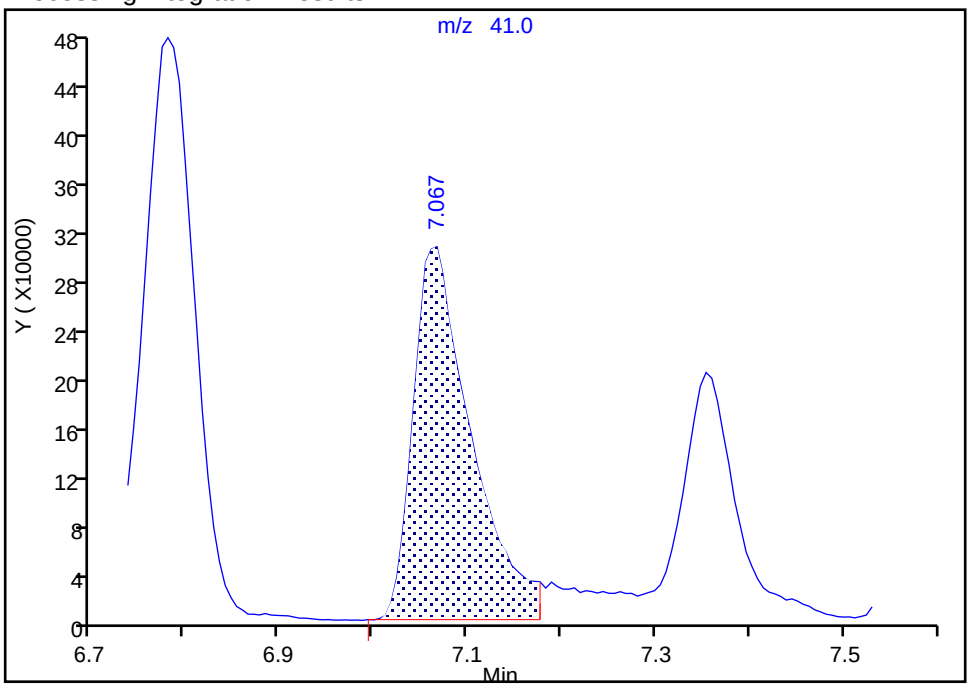
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Injection Date:	18-Jan-2023 12:53:30	Instrument ID:	16334		
Lims ID:	IC std7				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

58 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

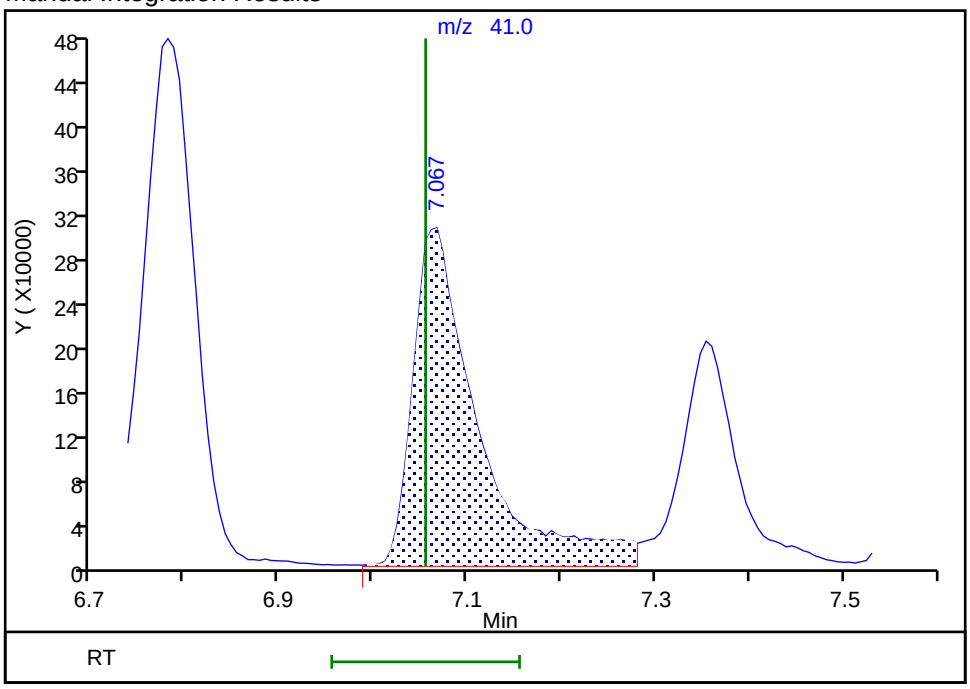
Processing Integration Results

RT: 7.07
Area: 1289336
Amount: 1004.8998
Amount Units: ug/l



Manual Integration Results

RT: 7.07
Area: 1445035
Amount: 1110.8447
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 13:17:24

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

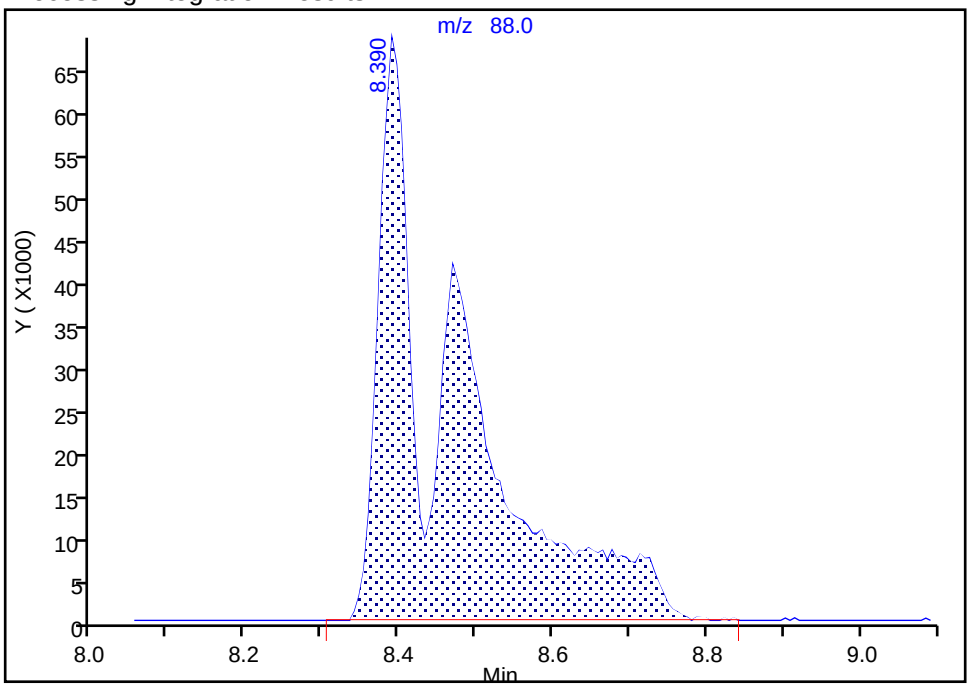
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Injection Date:	18-Jan-2023 12:53:30	Instrument ID:	16334		
Lims ID:	IC std7				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

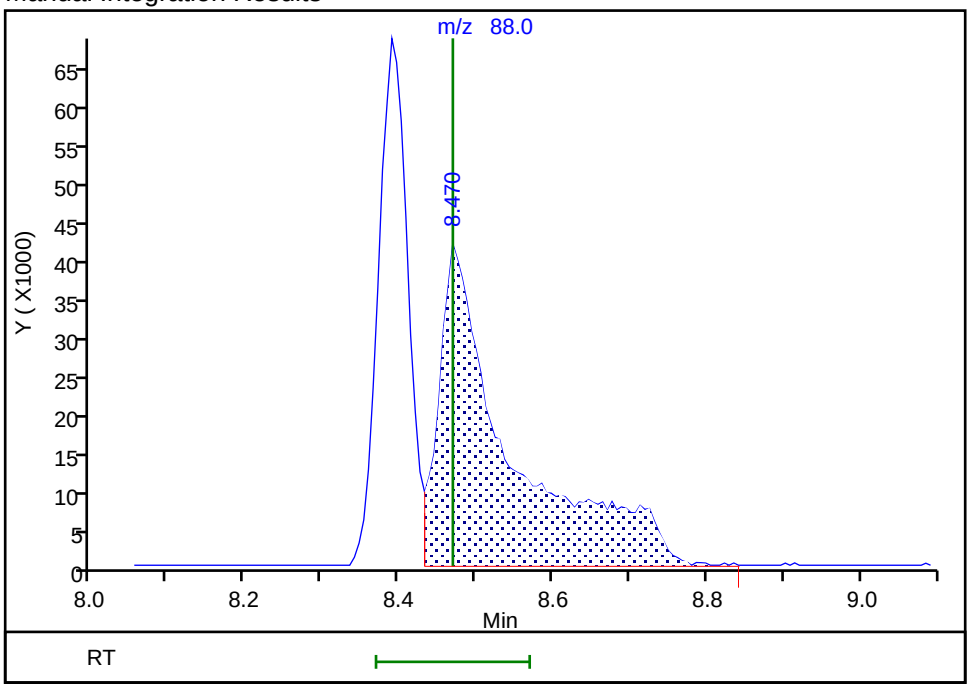
Processing Integration Results

RT: 8.39
Area: 451293
Amount: 1924.5021
Amount Units: ug/l



Manual Integration Results

RT: 8.47
Area: 271238
Amount: 1241.2948
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 13:17:55
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

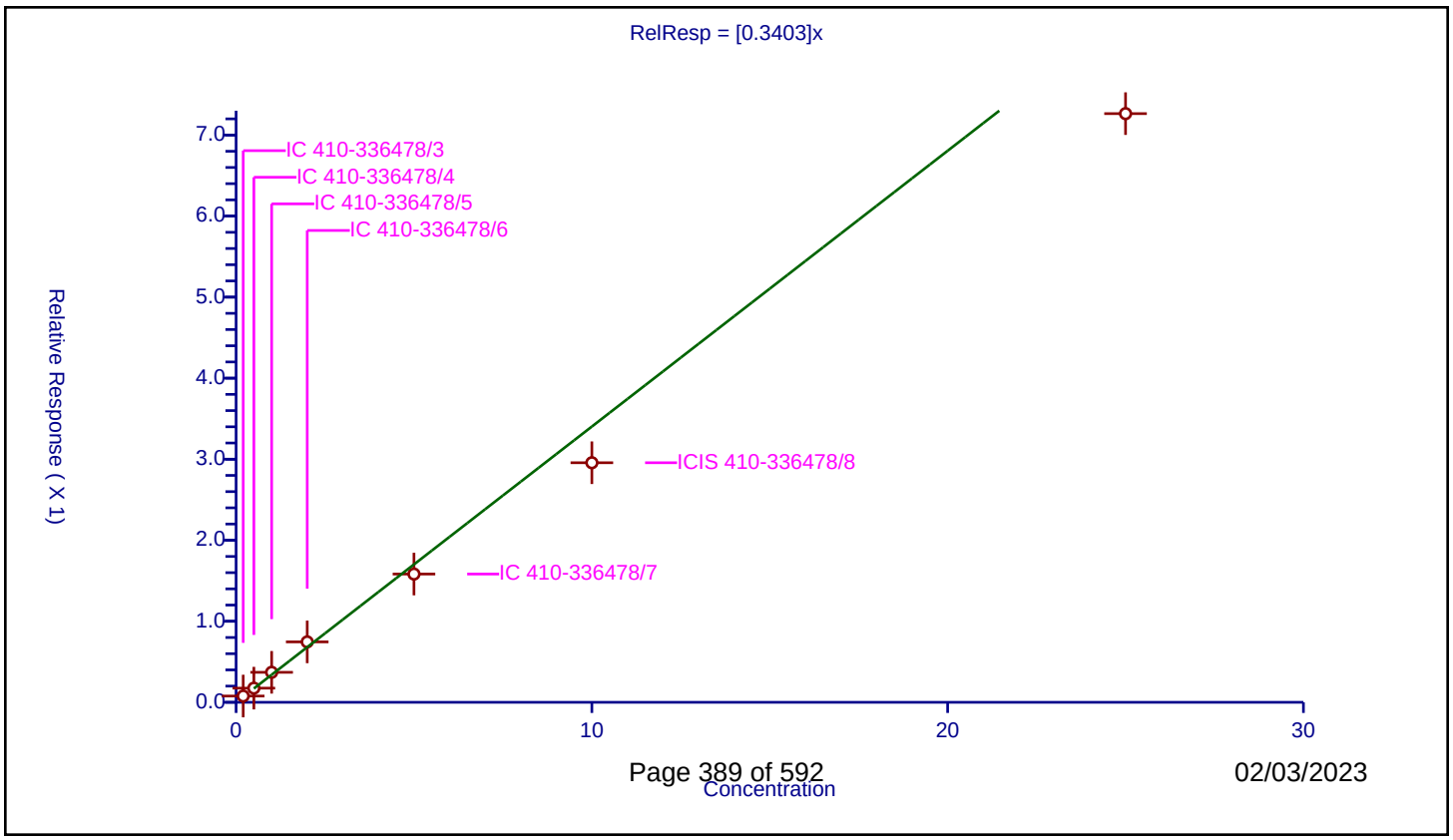
Curve Coefficients

Intercept:	0
Slope:	0.3403

Error Coefficients

Standard Error:	1050000
Relative Standard Error:	11.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.077316	10.0	2873412.0	0.386579	Y
2	IC 410-336478/4	0.5	0.174853	10.0	2950829.0	0.349705	Y
3	IC 410-336478/5	1.0	0.370159	10.0	2910805.0	0.370159	Y
4	IC 410-336478/6	2.0	0.745714	10.0	2961954.0	0.372857	Y
5	IC 410-336478/7	5.0	1.582829	10.0	3114537.0	0.316566	Y
6	ICIS 410-336478/8	10.0	2.956391	10.0	3141631.0	0.295639	Y
7	IC 410-336478/9	25.0	7.264501	10.0	3205211.0	0.29058	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

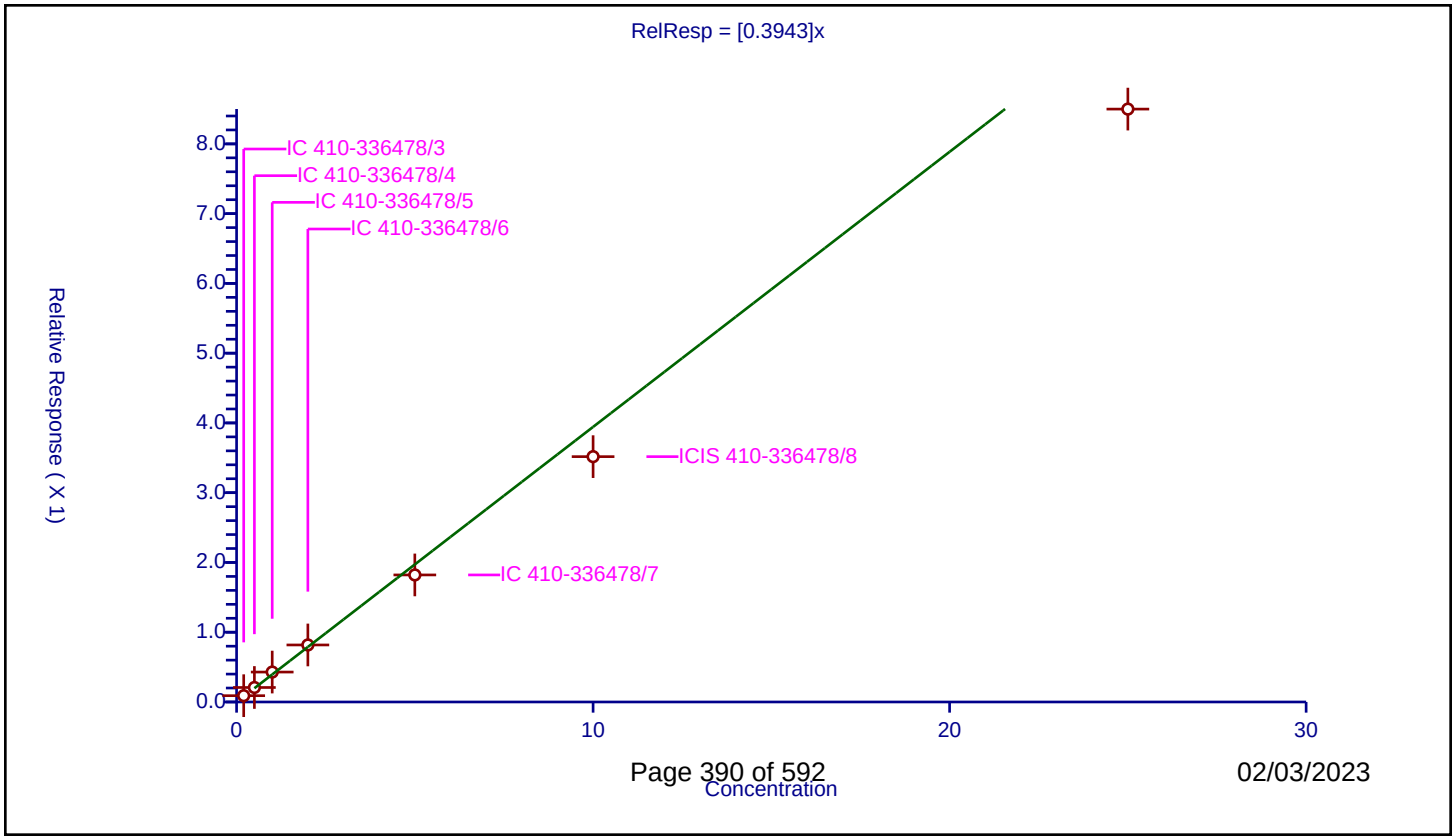
Curve Coefficients

Intercept:	0
Slope:	0.3943

Error Coefficients

Standard Error:	1230000
Relative Standard Error:	10.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.090245	10.0	2873412.0	0.451223	Y
2	IC 410-336478/4	0.5	0.20763	10.0	2950829.0	0.41526	Y
3	IC 410-336478/5	1.0	0.429112	10.0	2910805.0	0.429112	Y
4	IC 410-336478/6	2.0	0.817322	10.0	2961954.0	0.408661	Y
5	IC 410-336478/7	5.0	1.821385	10.0	3114537.0	0.364277	Y
6	ICIS 410-336478/8	10.0	3.516931	10.0	3141631.0	0.351693	Y
7	IC 410-336478/9	25.0	8.499007	10.0	3205211.0	0.33996	Y



02/03/2023

Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

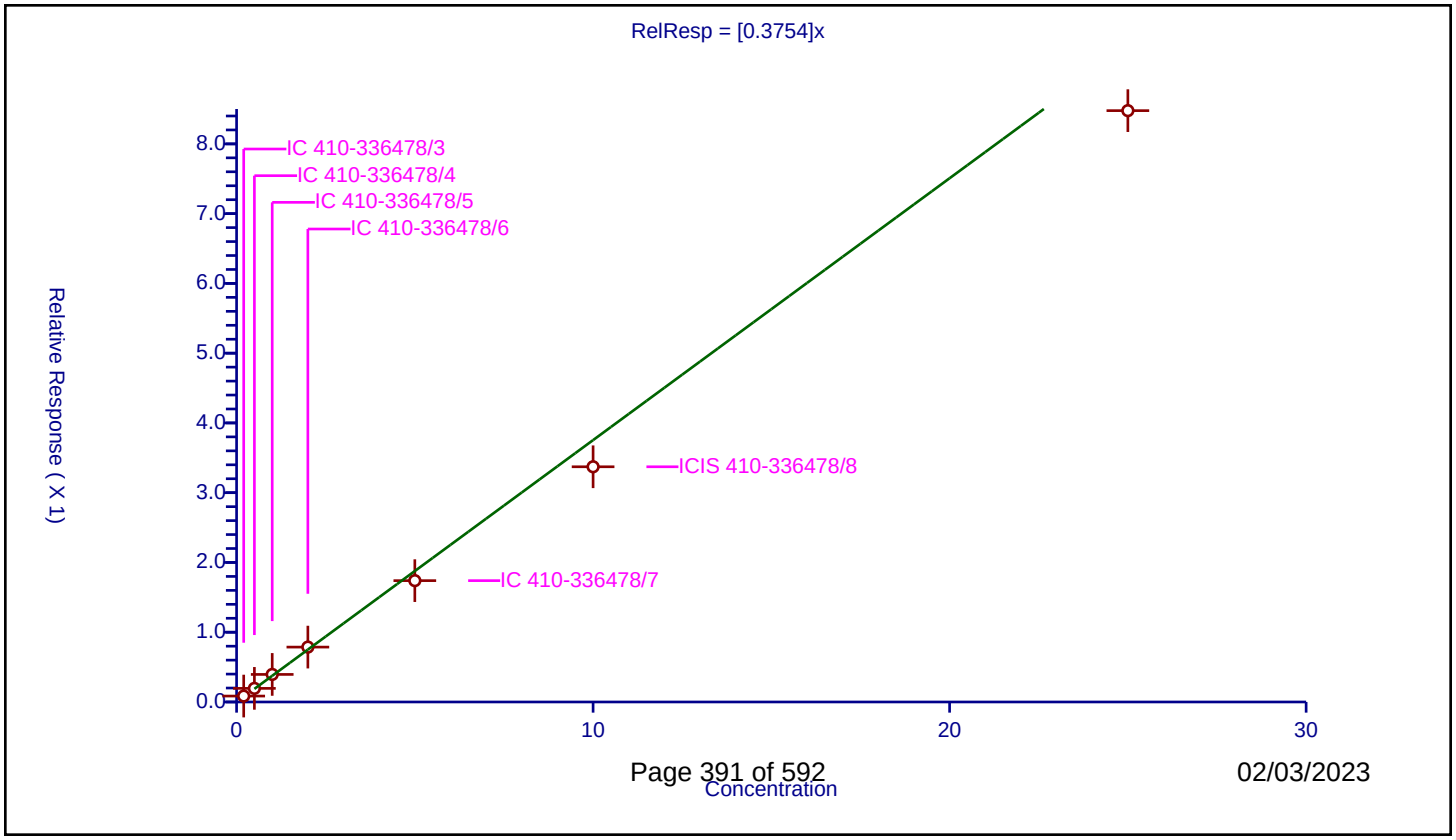
Curve Coefficients

Intercept:	0
Slope:	0.3754

Error Coefficients

Standard Error:	1220000
Relative Standard Error:	9.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.084972	10.0	2873412.0	0.424861	Y
2	IC 410-336478/4	0.5	0.195067	10.0	2950829.0	0.390134	Y
3	IC 410-336478/5	1.0	0.395104	10.0	2910805.0	0.395104	Y
4	IC 410-336478/6	2.0	0.78695	10.0	2961954.0	0.393475	Y
5	IC 410-336478/7	5.0	1.739414	10.0	3114537.0	0.347883	Y
6	ICIS 410-336478/8	10.0	3.371701	10.0	3141631.0	0.33717	Y
7	IC 410-336478/9	25.0	8.476653	10.0	3205211.0	0.339066	Y



Calibration / Butadiene

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

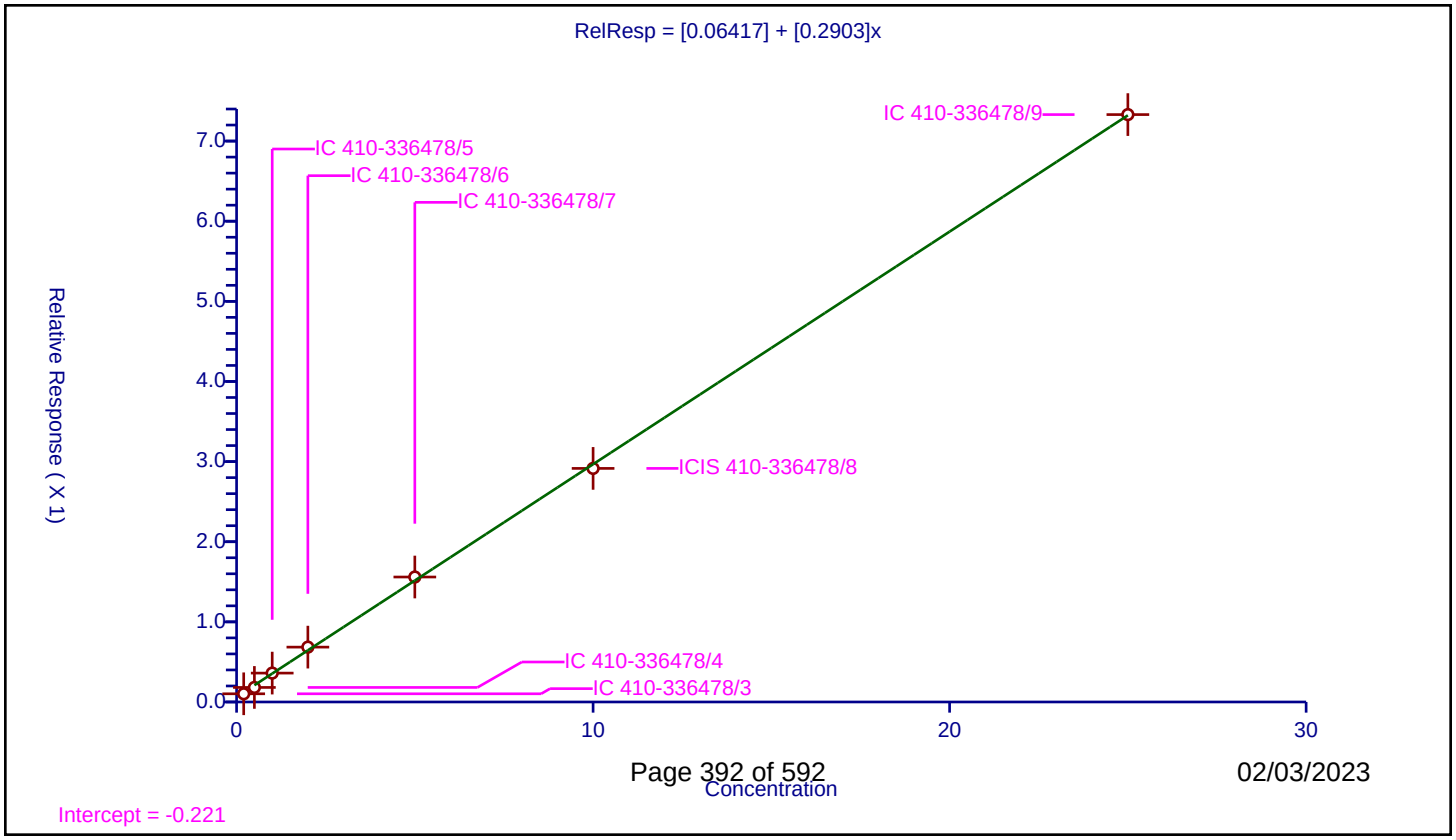
Curve Coefficients

Intercept:	0.06417
Slope:	0.2903

Error Coefficients

Standard Error:	1150000
Relative Standard Error:	17.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.102377	10.0	2873412.0	0.511883	Y
2	IC 410-336478/4	0.5	0.181556	10.0	2950829.0	0.363112	Y
3	IC 410-336478/5	1.0	0.360636	10.0	2910805.0	0.360636	Y
4	IC 410-336478/6	2.0	0.684791	10.0	2961954.0	0.342396	Y
5	IC 410-336478/7	5.0	1.559676	10.0	3114537.0	0.311935	Y
6	ICIS 410-336478/8	10.0	2.91489	10.0	3141631.0	0.291489	Y
7	IC 410-336478/9	25.0	7.330313	10.0	3205211.0	0.293213	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

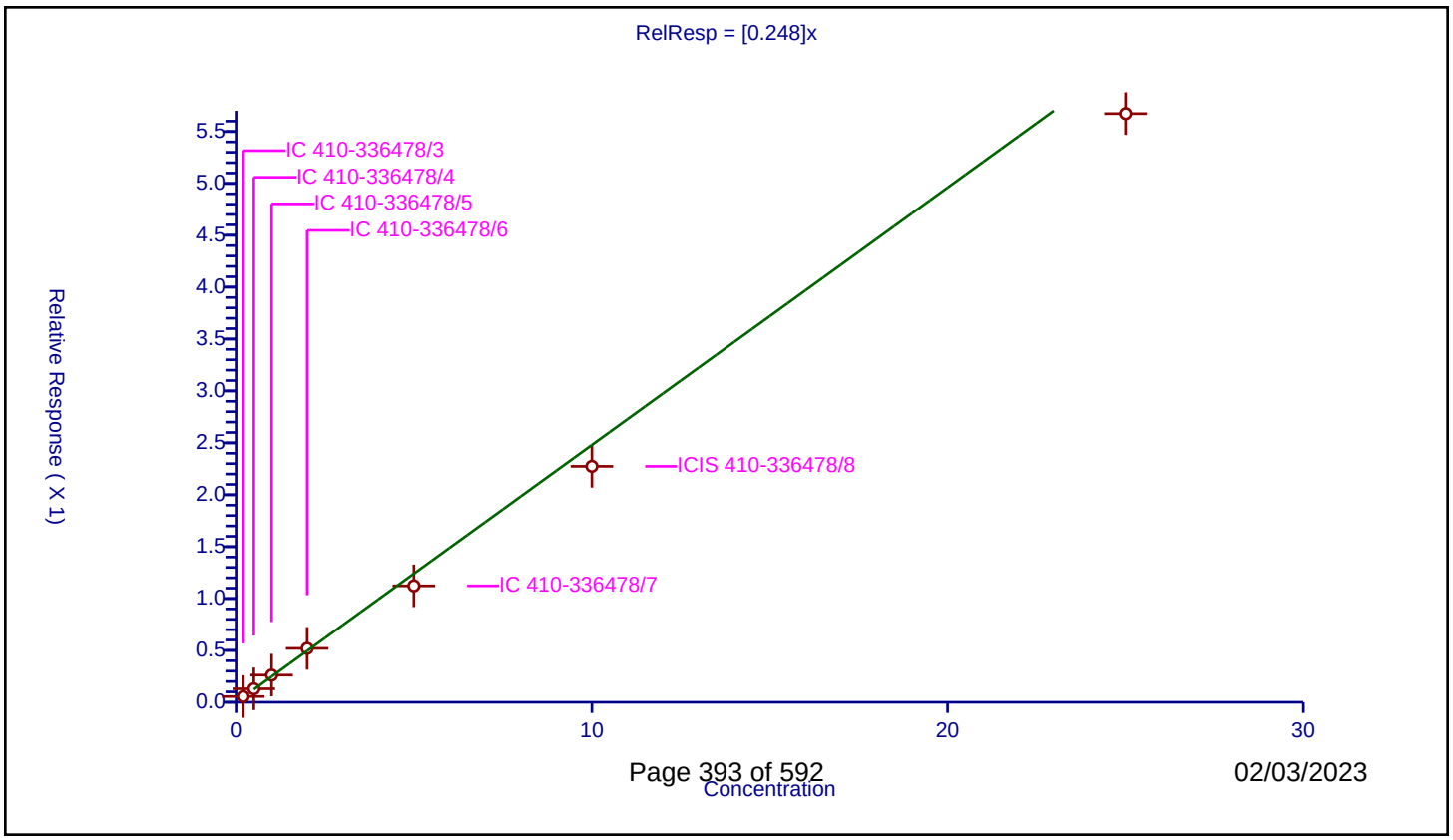
Curve Coefficients

Intercept:	0
Slope:	0.248

Error Coefficients

Standard Error:	813000
Relative Standard Error:	8.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.055196	10.0	2873412.0	0.275979	Y
2	IC 410-336478/4	0.5	0.129736	10.0	2950829.0	0.259473	Y
3	IC 410-336478/5	1.0	0.2619	10.0	2910805.0	0.2619	Y
4	IC 410-336478/6	2.0	0.519471	10.0	2961954.0	0.259736	Y
5	IC 410-336478/7	5.0	1.122388	10.0	3114537.0	0.224478	Y
6	ICIS 410-336478/8	10.0	2.274185	10.0	3141631.0	0.227418	Y
7	IC 410-336478/9	25.0	5.672896	10.0	3205211.0	0.226916	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

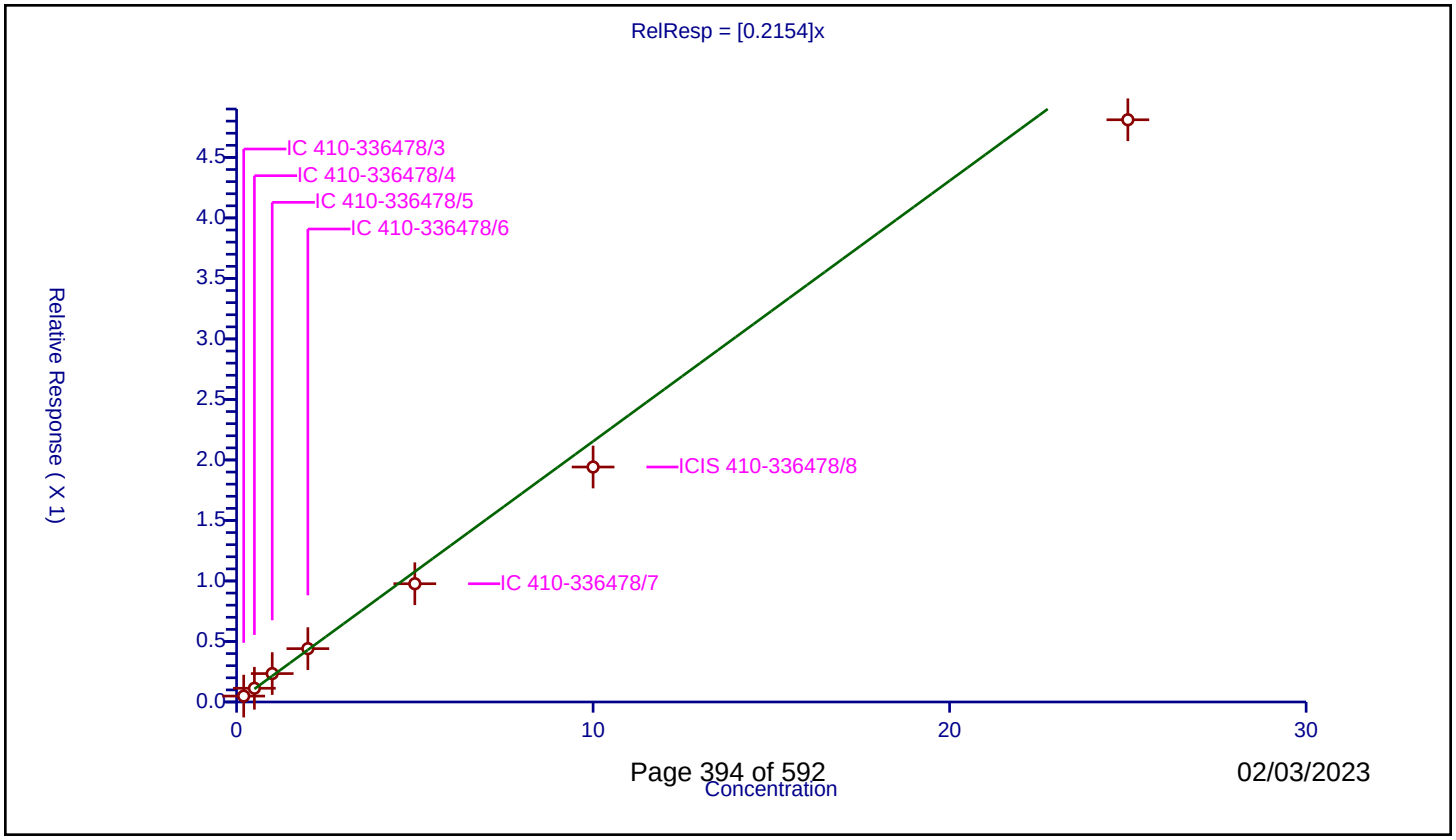
Curve Coefficients

Intercept:	0
Slope:	0.2154

Error Coefficients

Standard Error:	691000
Relative Standard Error:	9.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.048726	10.0	2873412.0	0.24363	Y
2	IC 410-336478/4	0.5	0.113348	10.0	2950829.0	0.226696	Y
3	IC 410-336478/5	1.0	0.234701	10.0	2910805.0	0.234701	Y
4	IC 410-336478/6	2.0	0.440898	10.0	2961954.0	0.220449	Y
5	IC 410-336478/7	5.0	0.977095	10.0	3114537.0	0.195419	Y
6	ICIS 410-336478/8	10.0	1.941673	10.0	3141631.0	0.194167	Y
7	IC 410-336478/9	25.0	4.811097	10.0	3205211.0	0.192444	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

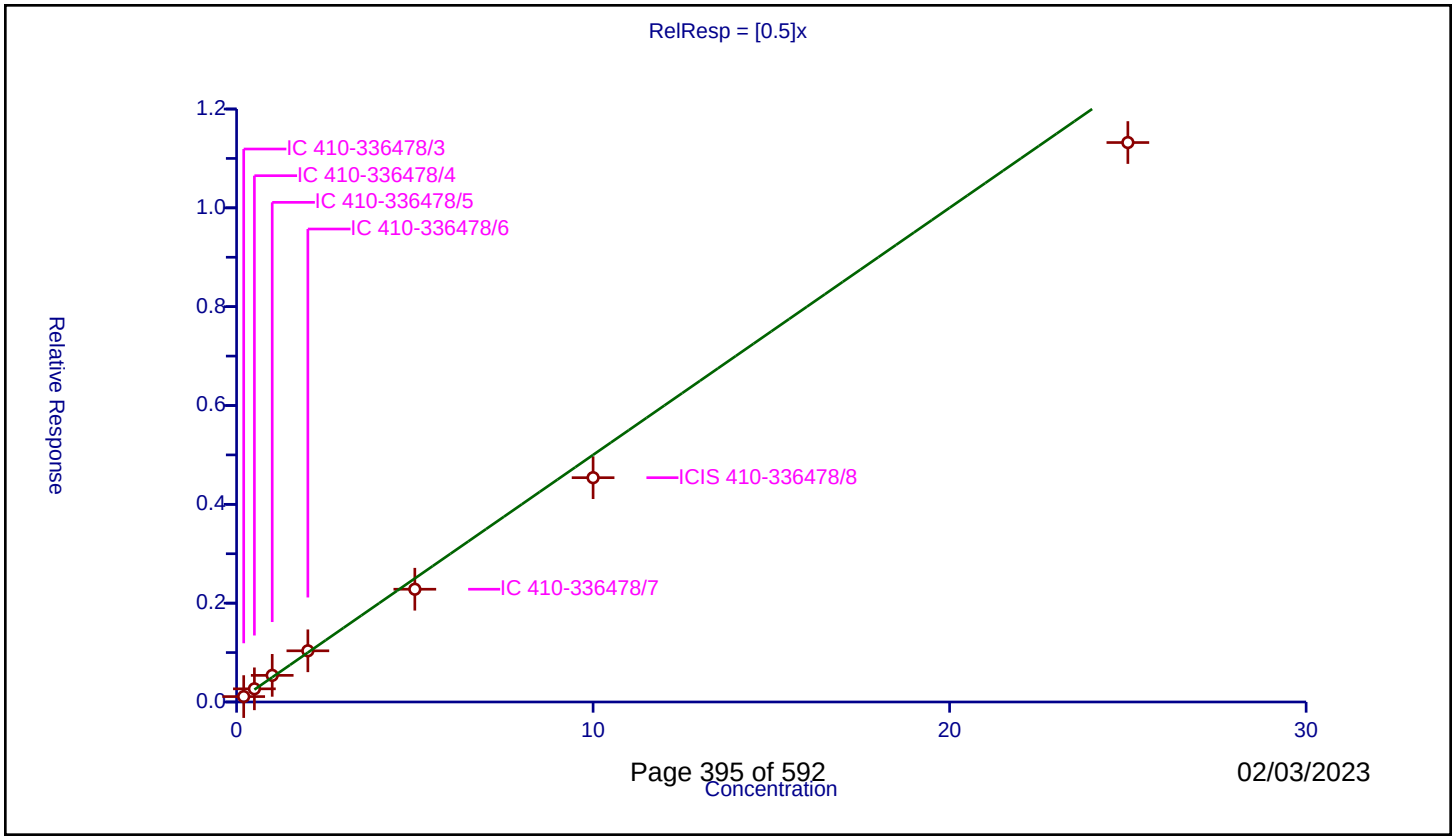
Curve Coefficients

Intercept:	0
Slope:	0.5

Error Coefficients

Standard Error:	1620000
Relative Standard Error:	8.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.109528	10.0	2873412.0	0.547642	Y
2	IC 410-336478/4	0.5	0.266464	10.0	2950829.0	0.532928	Y
3	IC 410-336478/5	1.0	0.538676	10.0	2910805.0	0.538676	Y
4	IC 410-336478/6	2.0	1.035755	10.0	2961954.0	0.517878	Y
5	IC 410-336478/7	5.0	2.281925	10.0	3114537.0	0.456385	Y
6	ICIS 410-336478/8	10.0	4.539365	10.0	3141631.0	0.453937	Y
7	IC 410-336478/9	25.0	11.32186	10.0	3205211.0	0.452874	Y



02/03/2023

Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

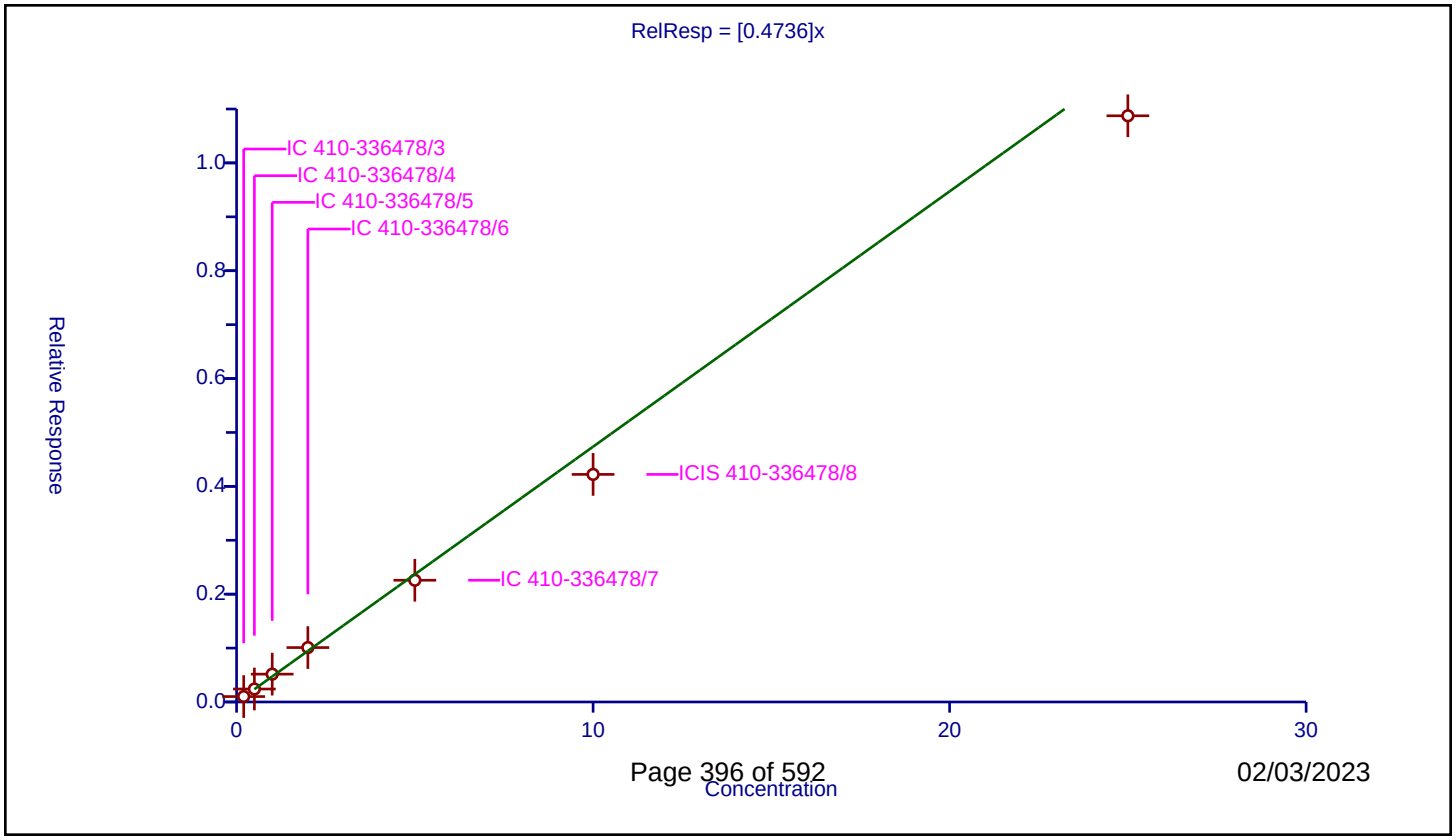
Curve Coefficients

Intercept:	0
Slope:	0.4736

Error Coefficients

Standard Error:	1560000
Relative Standard Error:	7.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.100793	10.0	2873412.0	0.503965	Y
2	IC 410-336478/4	0.5	0.24056	10.0	2950829.0	0.481119	Y
3	IC 410-336478/5	1.0	0.516665	10.0	2910805.0	0.516665	Y
4	IC 410-336478/6	2.0	1.00929	10.0	2961954.0	0.504645	Y
5	IC 410-336478/7	5.0	2.25858	10.0	3114537.0	0.451716	Y
6	ICIS 410-336478/8	10.0	4.221785	10.0	3141631.0	0.422178	Y
7	IC 410-336478/9	25.0	10.874183	10.0	3205211.0	0.434967	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

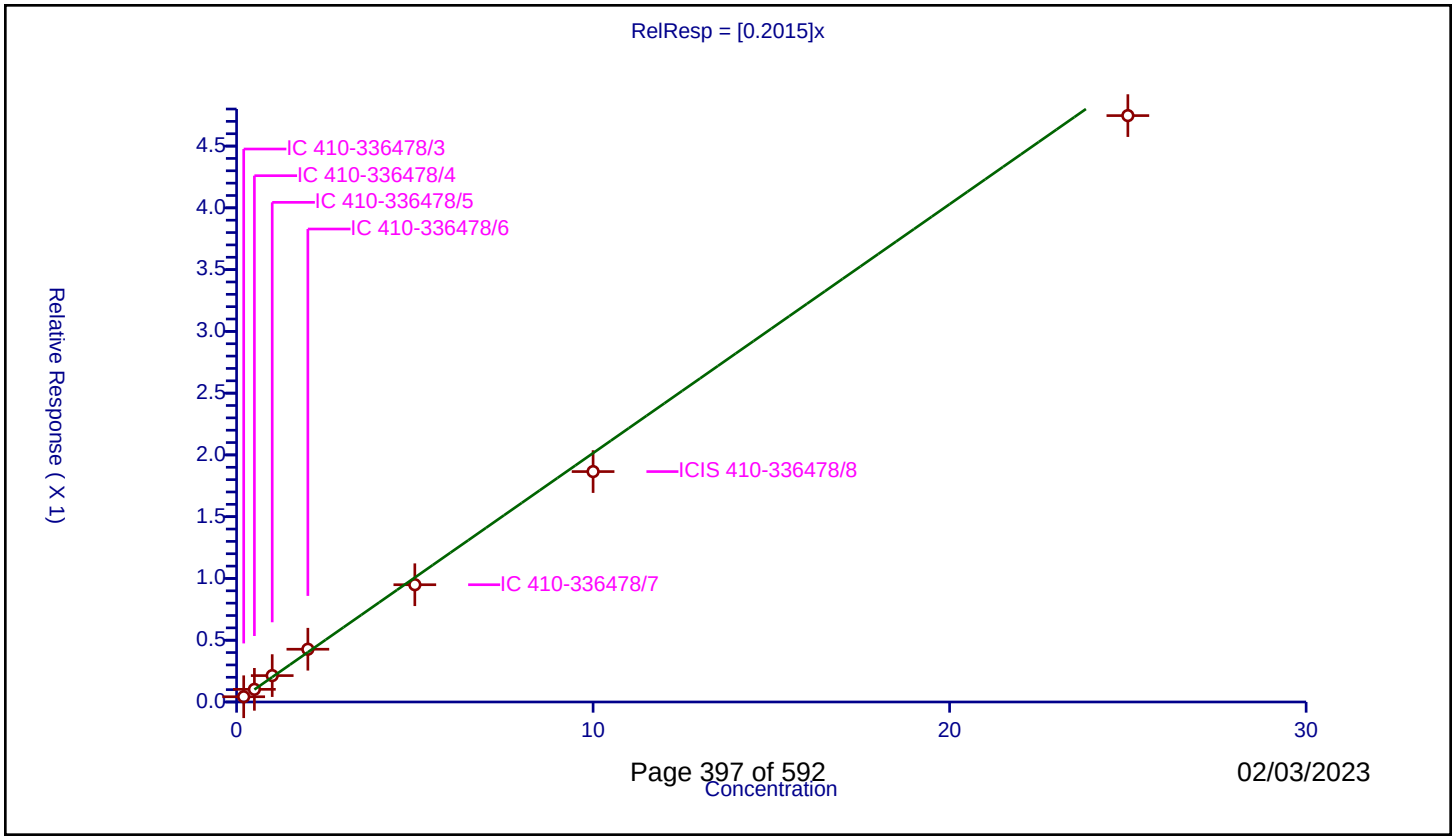
Curve Coefficients

Intercept:	0
Slope:	0.2015

Error Coefficients

Standard Error:	679000
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 410-336478/3	0.199998	0.042423	10.0	2873412.0	0.212119	Y
2	IC 410-336478/4	0.499996	0.102456	10.0	2950829.0	0.204913	Y
3	IC 410-336478/5	0.999992	0.213511	10.0	2910805.0	0.213513	Y
4	IC 410-336478/6	1.999985	0.42715	10.0	2961954.0	0.213577	Y
5	IC 410-336478/7	4.999962	0.9492	10.0	3114537.0	0.189842	Y
6	ICIS 410-336478/8	9.999924	1.865178	10.0	3141631.0	0.186519	Y
7	IC 410-336478/9	24.99981	4.746723	10.0	3205211.0	0.18987	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

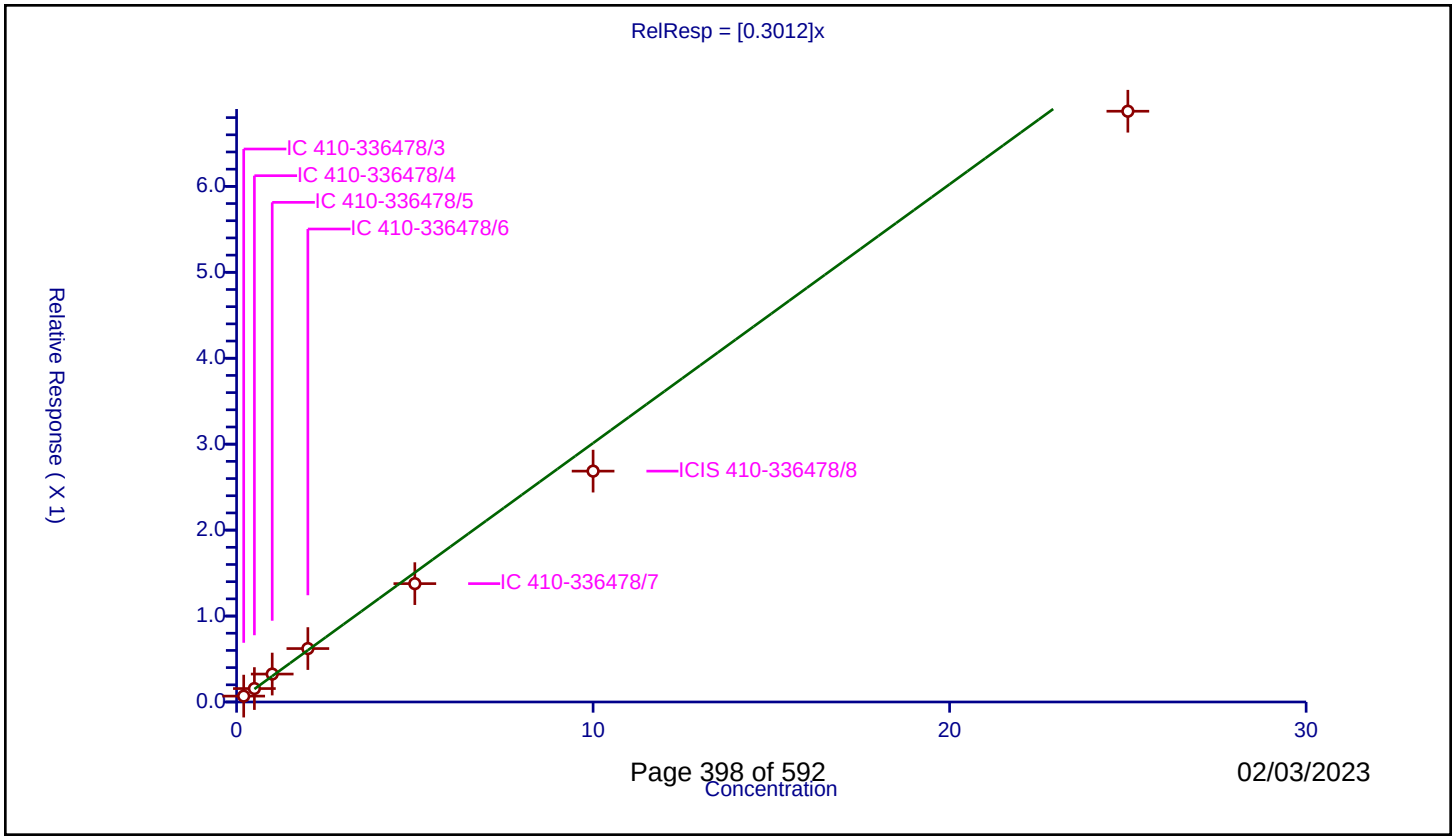
Curve Coefficients

Intercept:	0
Slope:	0.3012

Error Coefficients

Standard Error:	983000
Relative Standard Error:	9.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.068274	10.0	2873412.0	0.341371	Y
2	IC 410-336478/4	0.5	0.156132	10.0	2950829.0	0.312265	Y
3	IC 410-336478/5	1.0	0.325157	10.0	2910805.0	0.325157	Y
4	IC 410-336478/6	2.0	0.621623	10.0	2961954.0	0.310812	Y
5	IC 410-336478/7	5.0	1.377139	10.0	3114537.0	0.275428	Y
6	ICIS 410-336478/8	10.0	2.686455	10.0	3141631.0	0.268645	Y
7	IC 410-336478/9	25.0	6.874362	10.0	3205211.0	0.274974	Y



02/03/2023

Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

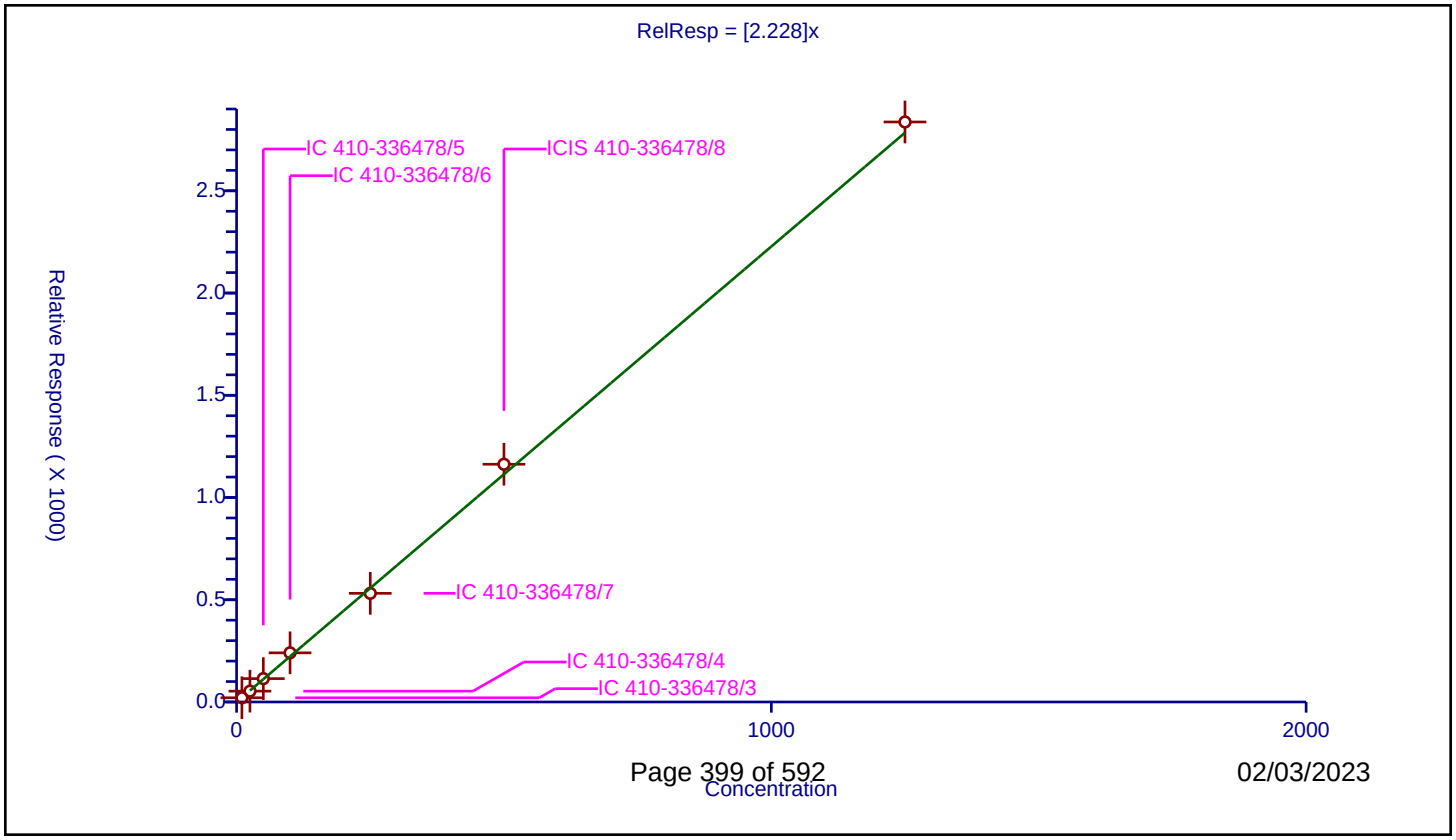
Curve Coefficients

Intercept:	0
Slope:	2.228

Error Coefficients

Standard Error:	4720000
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 410-336478/3	9.999106	20.632833	50.0	161970.0	2.063468	Y
2	IC 410-336478/4	24.997765	52.960063	50.0	174574.0	2.118592	Y
3	IC 410-336478/5	49.995529	114.272186	50.0	163153.0	2.285648	Y
4	IC 410-336478/6	99.991058	240.460301	50.0	165283.0	2.404818	Y
5	IC 410-336478/7	249.977645	531.337582	50.0	182187.0	2.12554	Y
6	ICIS 410-336478/8	499.955291	1162.728808	50.0	179954.0	2.325666	Y
7	IC 410-336478/9	1249.888227	2836.562058	50.0	186059.0	2.269453	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

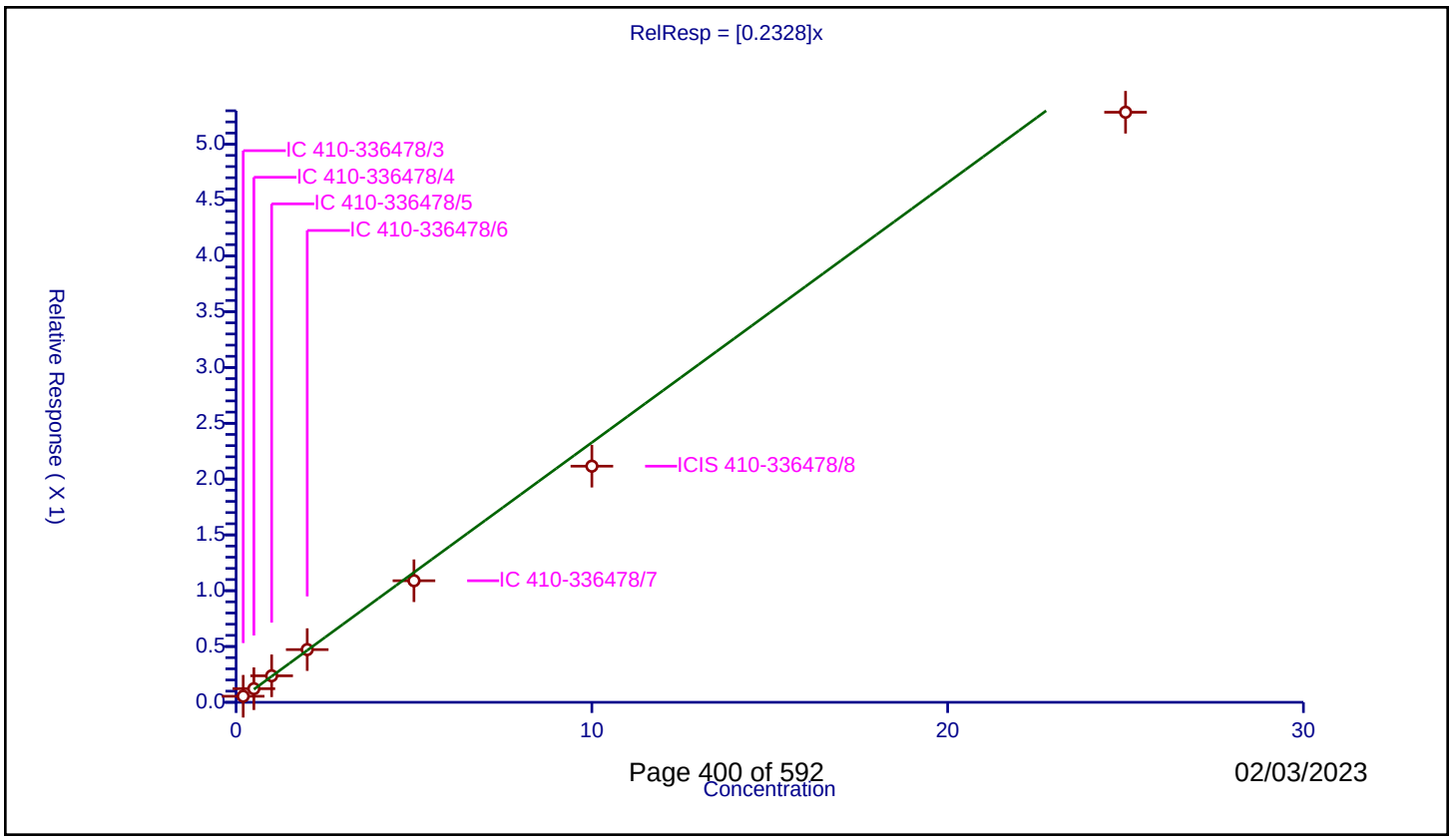
Curve Coefficients

Intercept:	0
Slope:	0.2328

Error Coefficients

Standard Error:	759000
Relative Standard Error:	9.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.054253	10.0	2873412.0	0.271263	Y
2	IC 410-336478/4	0.5	0.121806	10.0	2950829.0	0.243613	Y
3	IC 410-336478/5	1.0	0.237436	10.0	2910805.0	0.237436	Y
4	IC 410-336478/6	2.0	0.472387	10.0	2961954.0	0.236194	Y
5	IC 410-336478/7	5.0	1.089343	10.0	3114537.0	0.217869	Y
6	ICIS 410-336478/8	10.0	2.115767	10.0	3141631.0	0.211577	Y
7	IC 410-336478/9	25.0	5.286672	10.0	3205211.0	0.211467	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

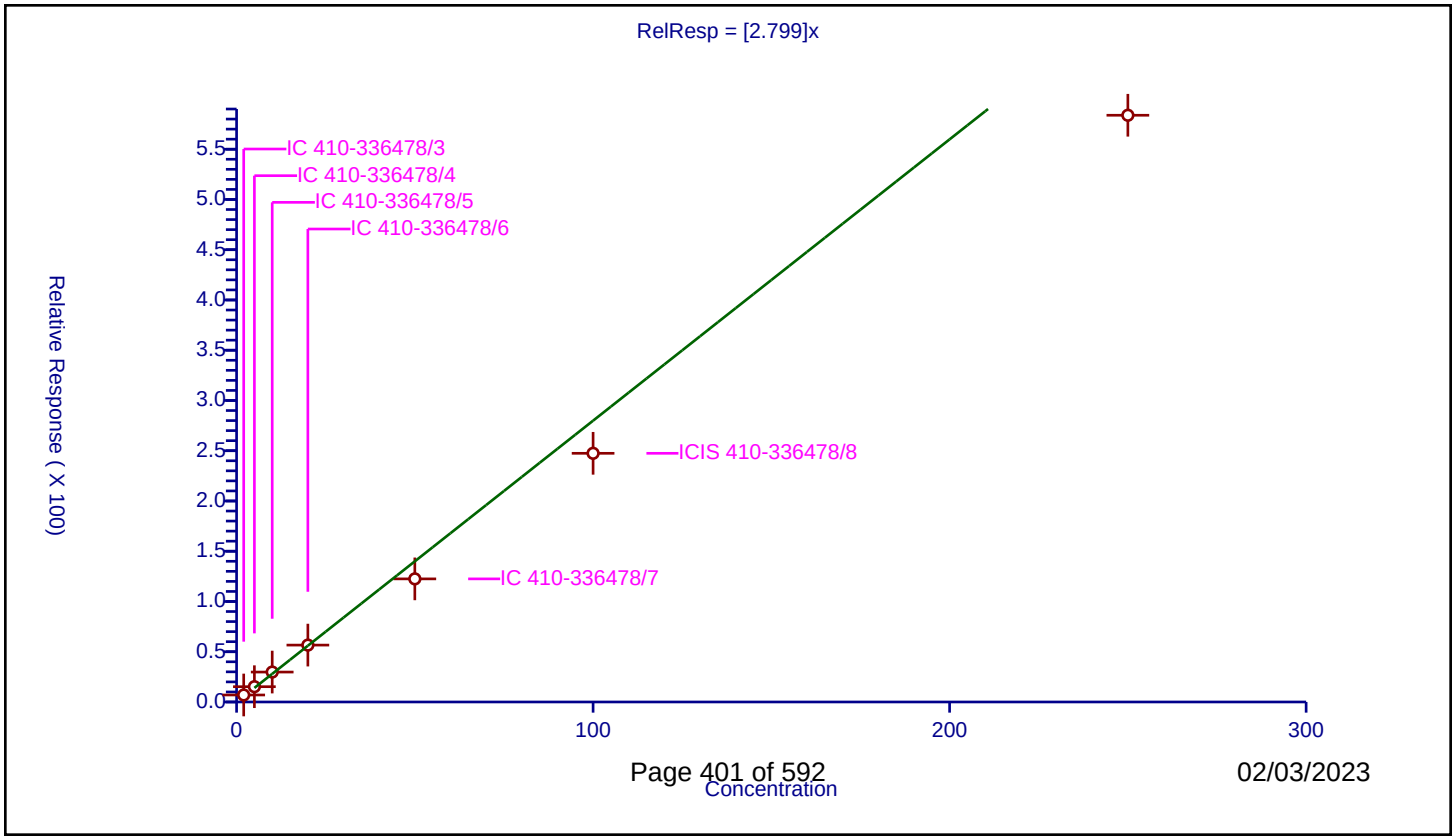
Curve Coefficients

Intercept:	0
Slope:	2.799

Error Coefficients

Standard Error:	979000
Relative Standard Error:	14.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.965

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	2.0	6.959622	50.0	161970.0	3.479811	Y
2	IC 410-336478/4	5.0	15.223057	50.0	174574.0	3.044611	Y
3	IC 410-336478/5	10.0	29.793813	50.0	163153.0	2.979381	Y
4	IC 410-336478/6	20.0	56.604127	50.0	165283.0	2.830206	Y
5	IC 410-336478/7	50.0	122.497489	50.0	182187.0	2.44995	Y
6	ICIS 410-336478/8	100.0	247.441013	50.0	179954.0	2.47441	Y
7	IC 410-336478/9	250.0	583.779876	50.0	186059.0	2.33512	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

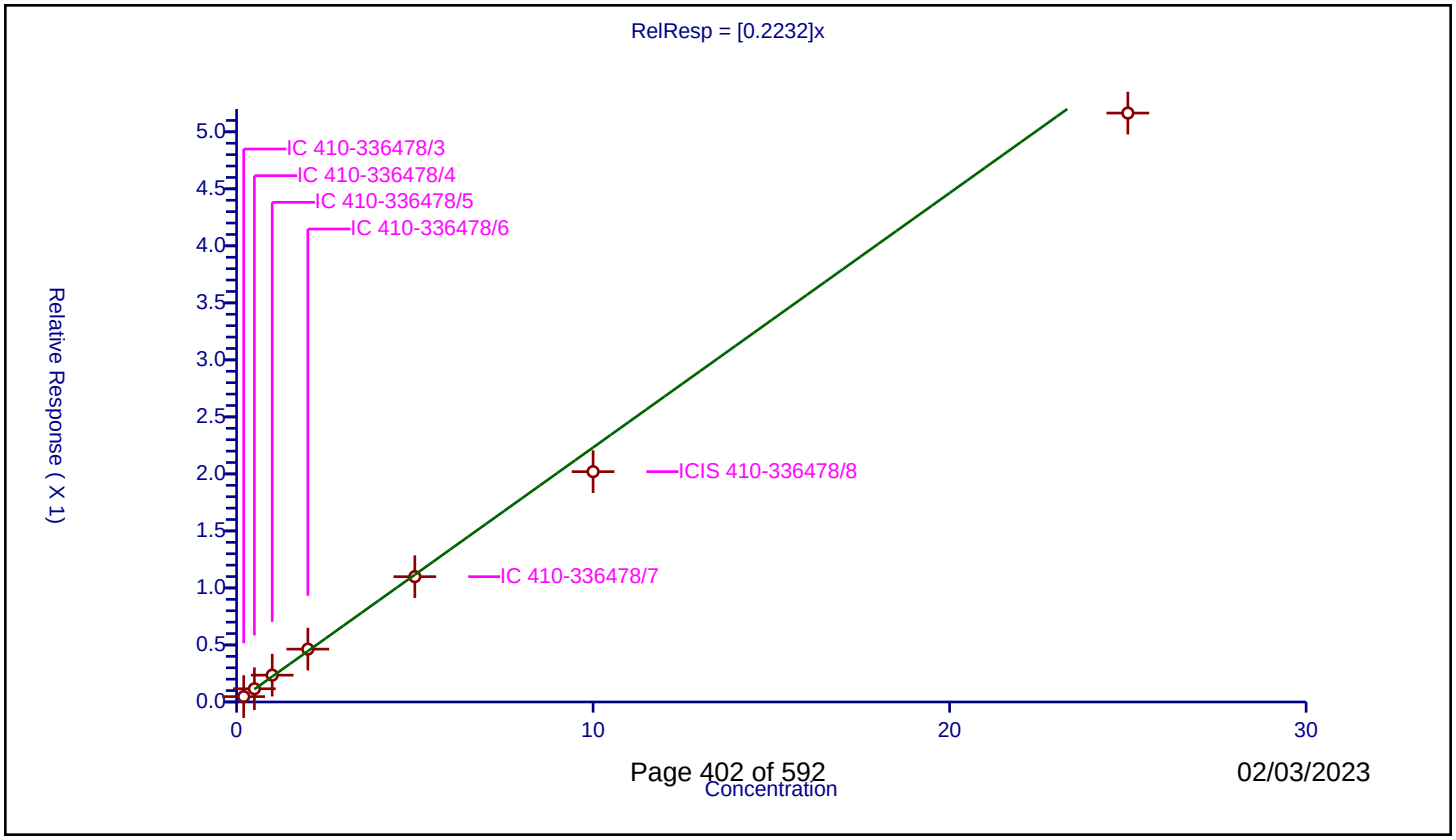
Curve Coefficients

Intercept:	0
Slope:	0.2232

Error Coefficients

Standard Error:	740000
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 410-336478/3	0.2	0.047028	10.0	2873412.0	0.235139	Y
2	IC 410-336478/4	0.5	0.115825	10.0	2950829.0	0.23165	Y
3	IC 410-336478/5	1.0	0.235309	10.0	2910805.0	0.235309	Y
4	IC 410-336478/6	2.0	0.463535	10.0	2961954.0	0.231768	Y
5	IC 410-336478/7	5.0	1.098924	10.0	3114537.0	0.219785	Y
6	ICIS 410-336478/8	10.0	2.019766	10.0	3141631.0	0.201977	Y
7	IC 410-336478/9	25.0	5.164471	10.0	3205211.0	0.206579	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

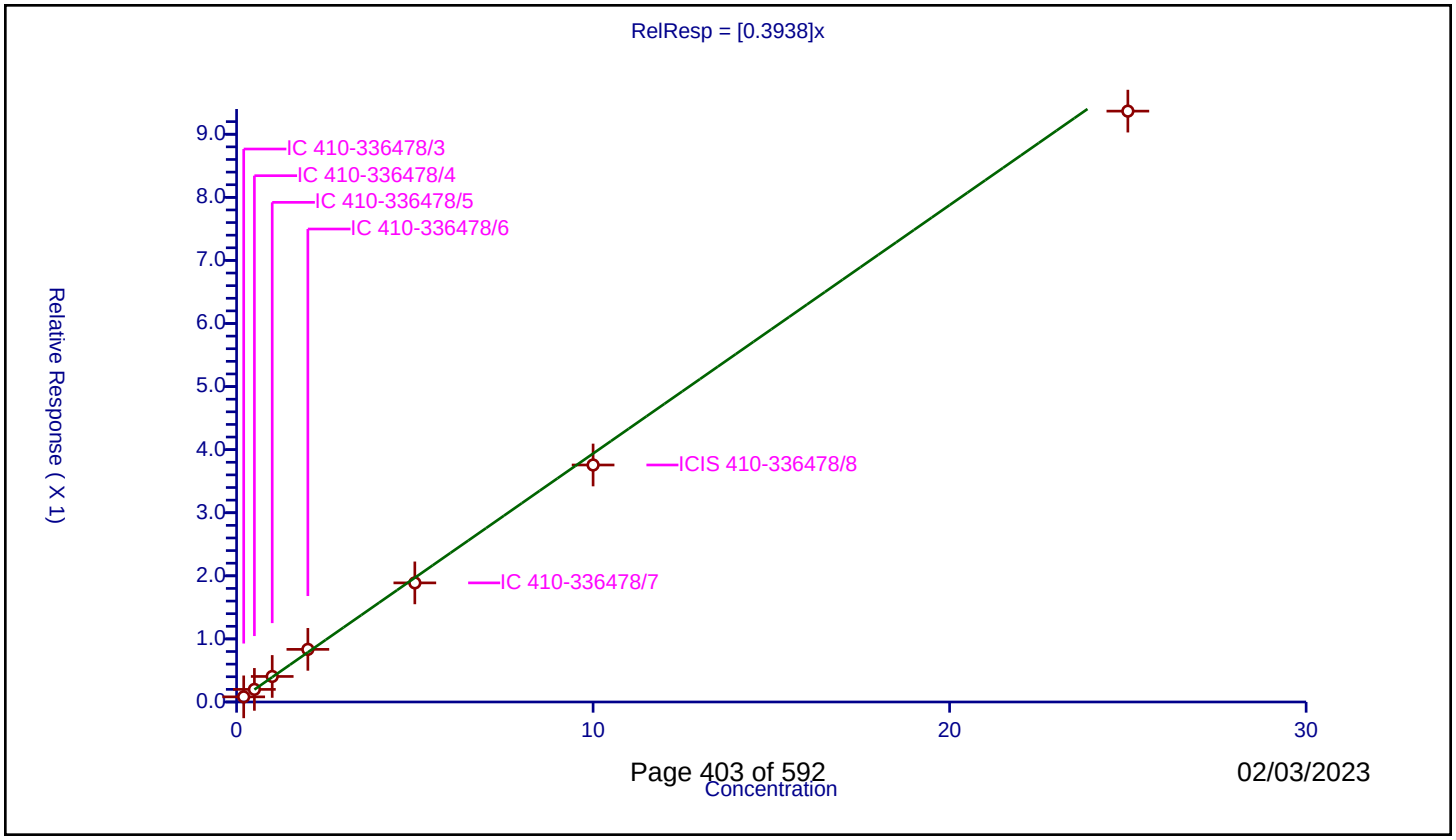
Curve Coefficients

Intercept:	0
Slope:	0.3938

Error Coefficients

Standard Error:	1340000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.081443	10.0	2873412.0	0.407216	Y
2	IC 410-336478/4	0.5	0.199944	10.0	2950829.0	0.399888	Y
3	IC 410-336478/5	1.0	0.404675	10.0	2910805.0	0.404675	Y
4	IC 410-336478/6	2.0	0.834213	10.0	2961954.0	0.417106	Y
5	IC 410-336478/7	5.0	1.888245	10.0	3114537.0	0.377649	Y
6	ICIS 410-336478/8	10.0	3.757163	10.0	3141631.0	0.375716	Y
7	IC 410-336478/9	25.0	9.366422	10.0	3205211.0	0.374657	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

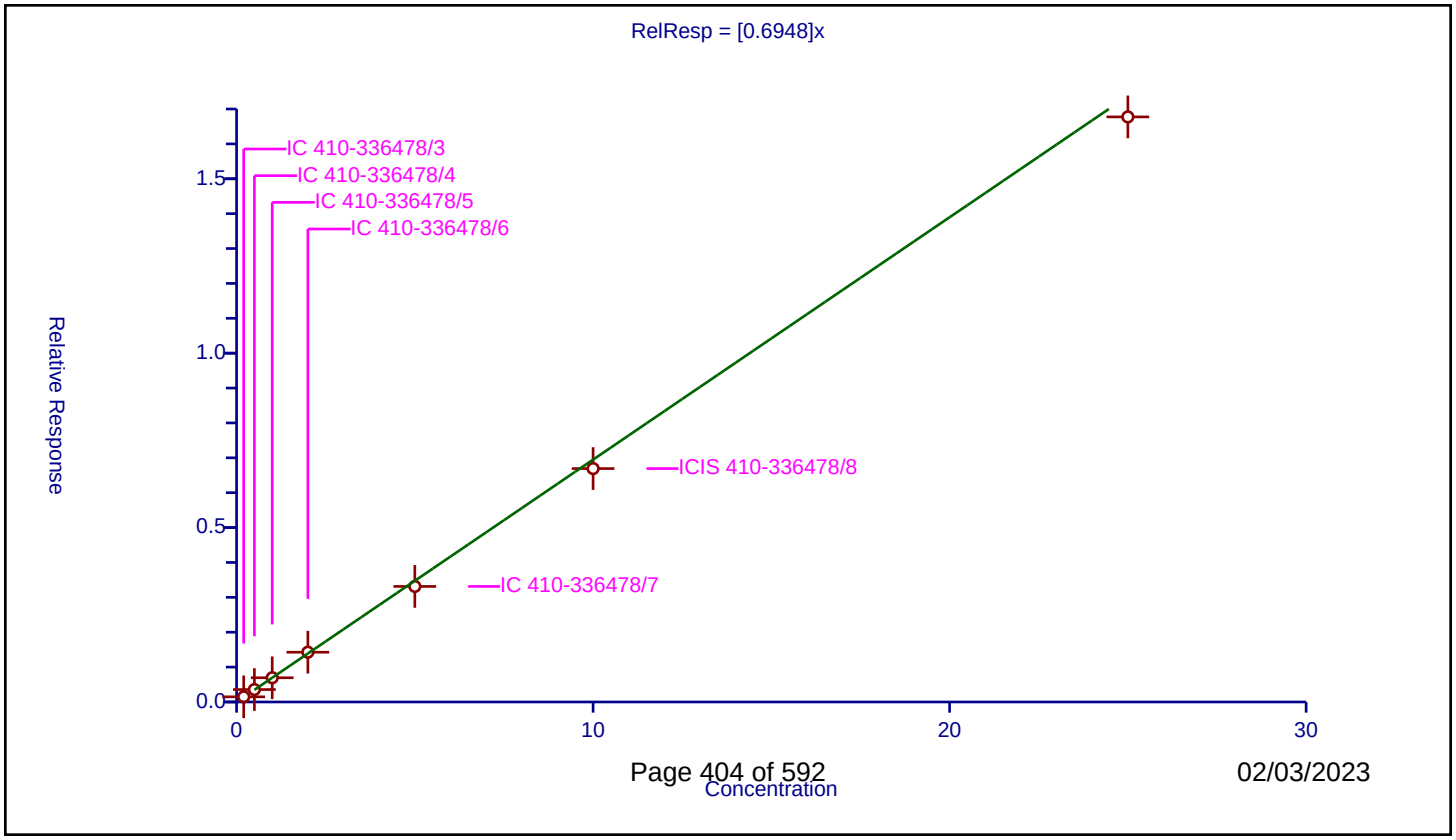
Curve Coefficients

Intercept:	0
Slope:	0.6948

Error Coefficients

Standard Error:	2400000
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 410-336478/3	0.2	0.147988	10.0	2873412.0	0.739939	Y
2	IC 410-336478/4	0.5	0.3563	10.0	2950829.0	0.7126	Y
3	IC 410-336478/5	1.0	0.694866	10.0	2910805.0	0.694866	Y
4	IC 410-336478/6	2.0	1.427173	10.0	2961954.0	0.713586	Y
5	IC 410-336478/7	5.0	3.31324	10.0	3114537.0	0.662648	Y
6	ICIS 410-336478/8	10.0	6.691941	10.0	3141631.0	0.669194	Y
7	IC 410-336478/9	25.0	16.773829	10.0	3205211.0	0.670953	Y



Calibration / Methyl acetate

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

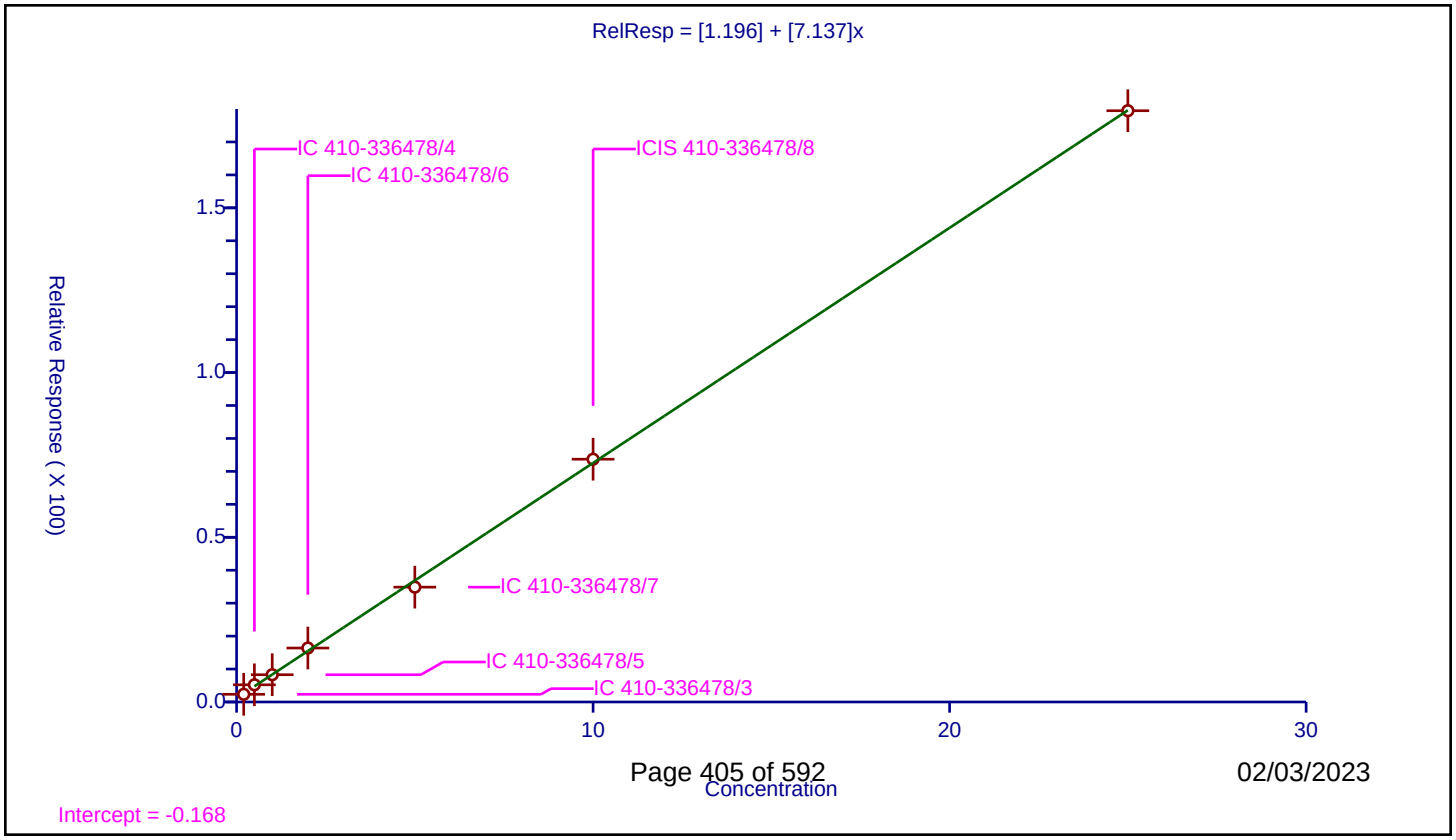
Curve Coefficients

Intercept:	1.196
Slope:	7.137

Error Coefficients

Standard Error:	328000
Relative Standard Error:	11.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	2.335618	50.0	161970.0	11.678089	Y
2	IC 410-336478/4	0.5	5.213262	50.0	174574.0	10.426524	Y
3	IC 410-336478/5	1.0	8.277813	50.0	163153.0	8.277813	Y
4	IC 410-336478/6	2.0	16.375852	50.0	165283.0	8.187926	Y
5	IC 410-336478/7	5.0	34.857866	50.0	182187.0	6.971573	Y
6	ICIS 410-336478/8	10.0	73.697445	50.0	179954.0	7.369744	Y
7	IC 410-336478/9	25.0	179.48339	50.0	186059.0	7.179336	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

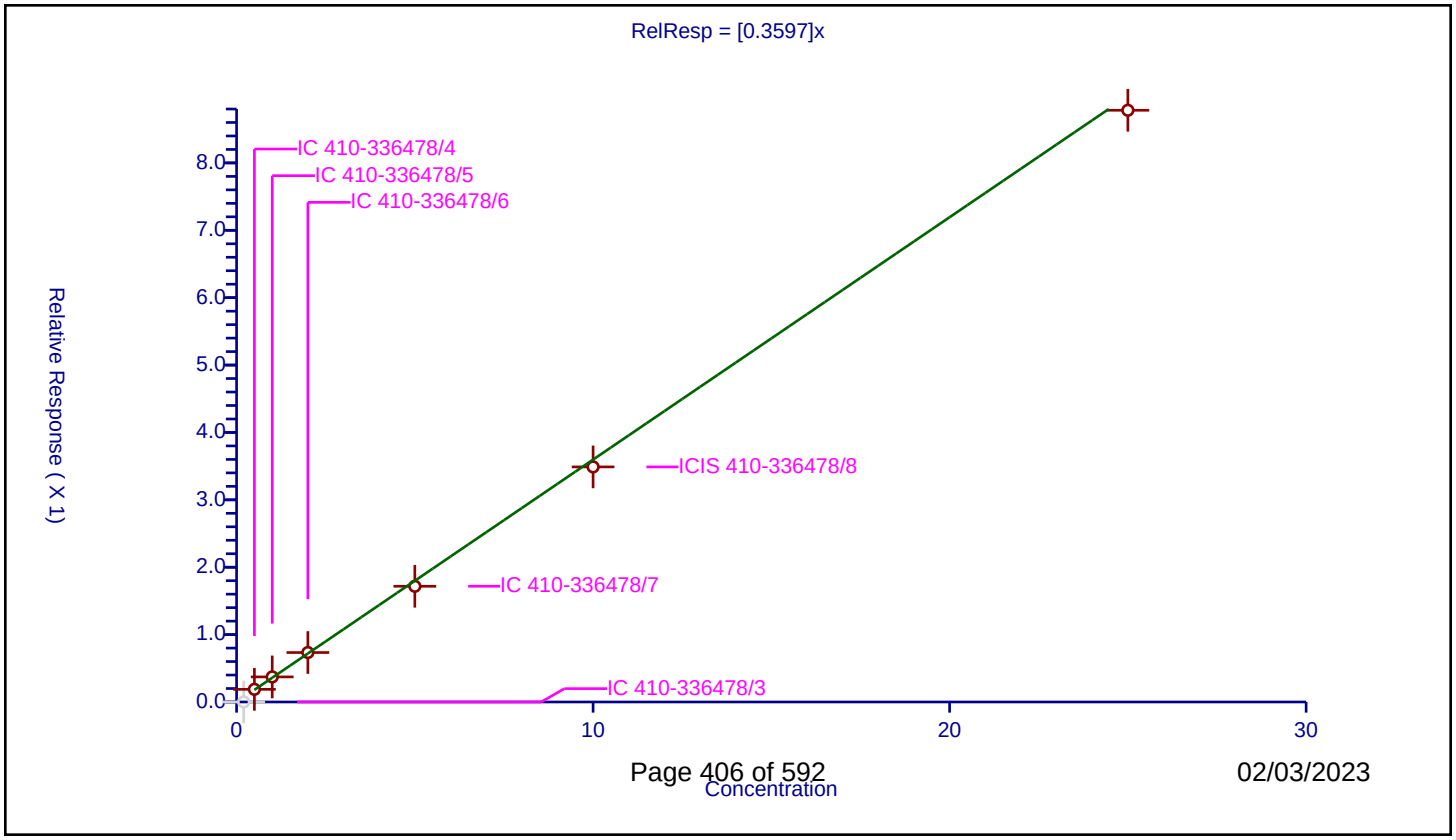
Curve Coefficients

Intercept:	0
Slope:	0.3597

Error Coefficients

Standard Error:	1380000
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 410-336478/3	0.2	0.0	10.0	2873412.0	0.0	N
2	IC 410-336478/4	0.5	0.187727	10.0	2950829.0	0.375454	Y
3	IC 410-336478/5	1.0	0.372309	10.0	2910805.0	0.372309	Y
4	IC 410-336478/6	2.0	0.733806	10.0	2961954.0	0.366903	Y
5	IC 410-336478/7	5.0	1.717157	10.0	3114537.0	0.343431	Y
6	ICIS 410-336478/8	10.0	3.488822	10.0	3141631.0	0.348882	Y
7	IC 410-336478/9	25.0	8.781344	10.0	3205211.0	0.351254	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

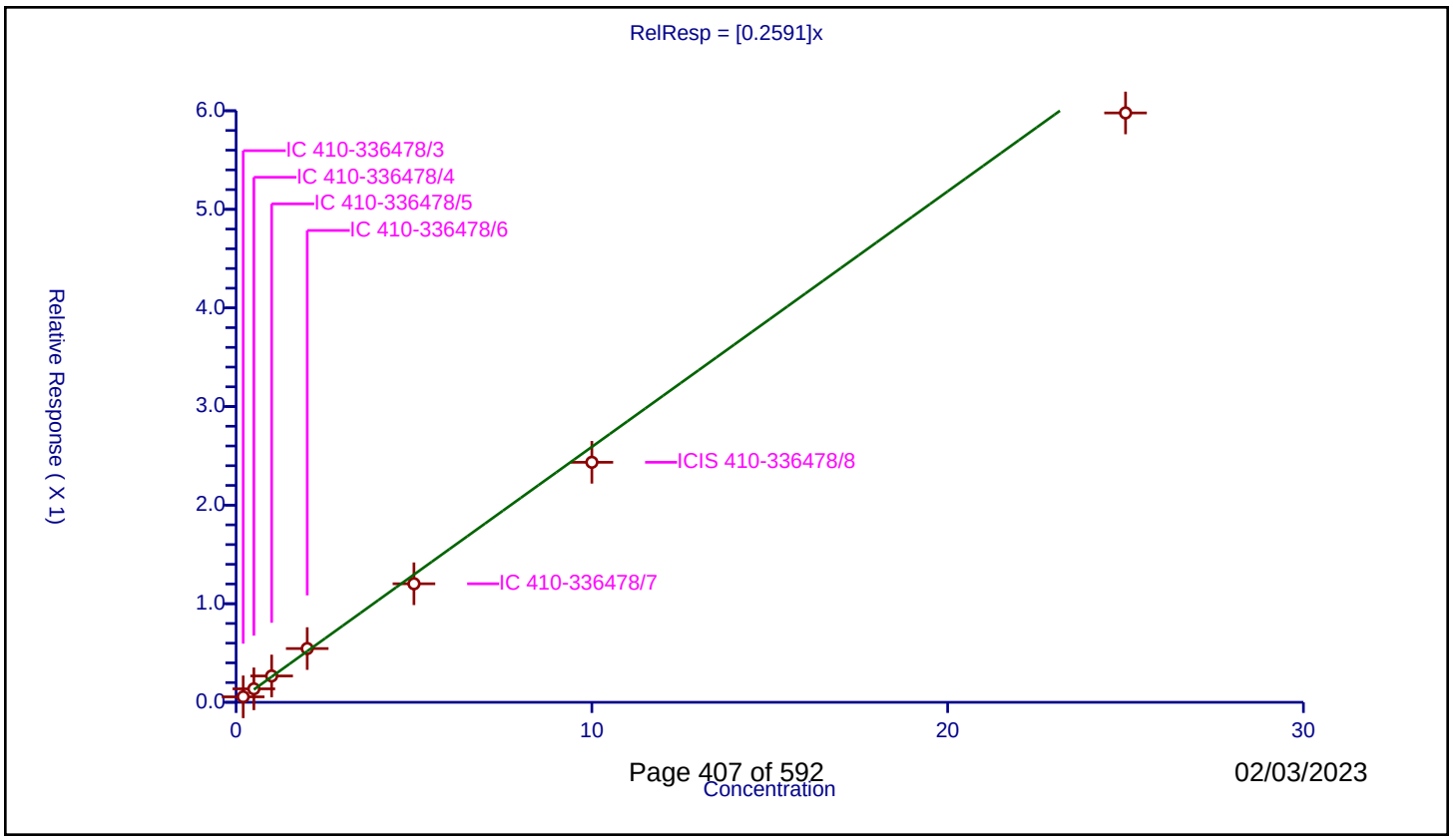
Curve Coefficients

Intercept:	0
Slope:	0.2591

Error Coefficients

Standard Error:	859000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.05553	10.0	2873412.0	0.277649	Y
2	IC 410-336478/4	0.5	0.136606	10.0	2950829.0	0.273211	Y
3	IC 410-336478/5	1.0	0.267218	10.0	2910805.0	0.267218	Y
4	IC 410-336478/6	2.0	0.545295	10.0	2961954.0	0.272648	Y
5	IC 410-336478/7	5.0	1.202352	10.0	3114537.0	0.24047	Y
6	ICIS 410-336478/8	10.0	2.434541	10.0	3141631.0	0.243454	Y
7	IC 410-336478/9	25.0	5.977812	10.0	3205211.0	0.239112	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

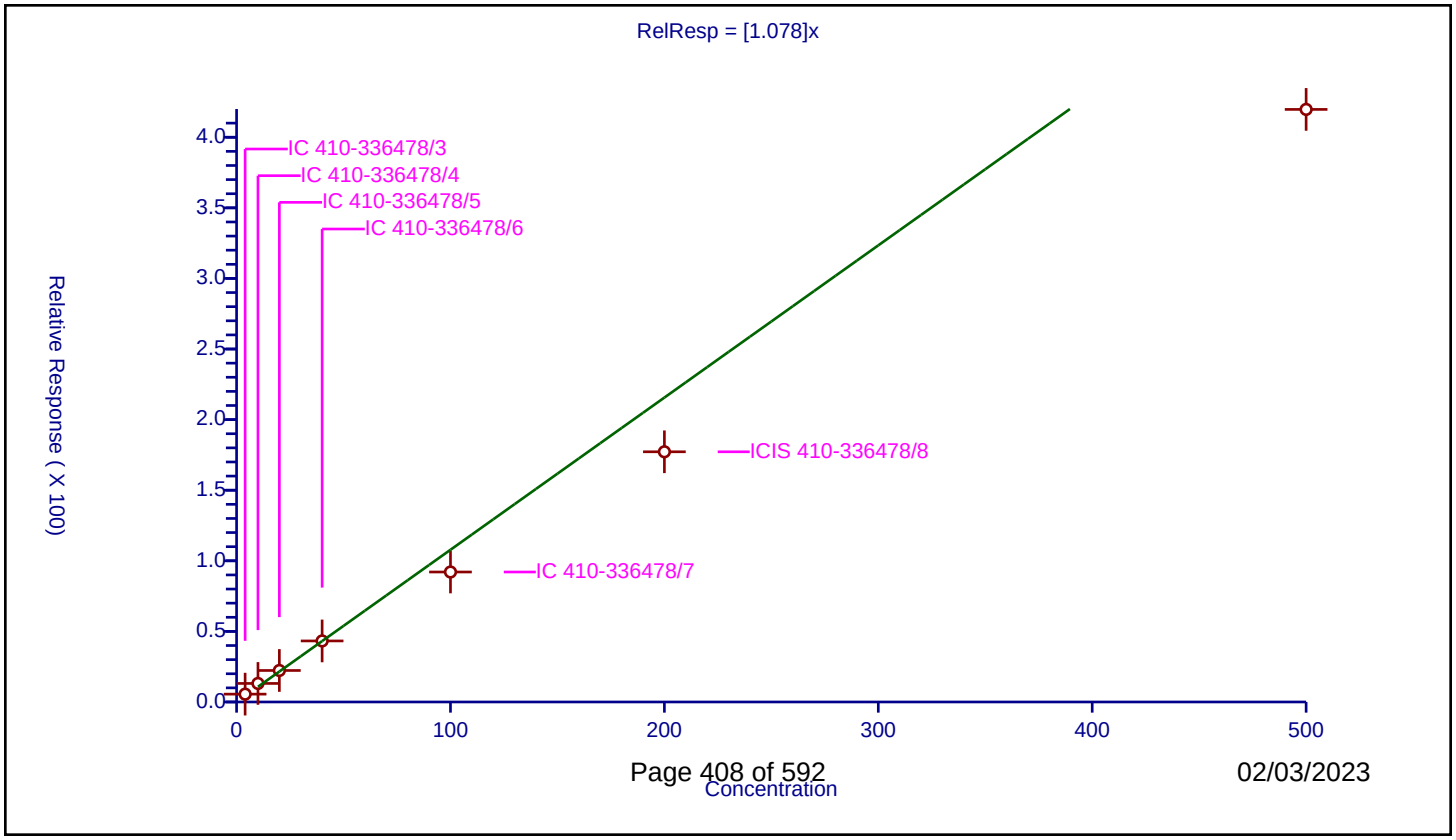
Curve Coefficients

Intercept:	0
Slope:	1.078

Error Coefficients

Standard Error:	705000
Relative Standard Error:	19.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.932

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	4.0	5.560289	50.0	161970.0	1.390072	Y
2	IC 410-336478/4	10.0	13.137695	50.0	174574.0	1.31377	Y
3	IC 410-336478/5	20.0	22.308508	50.0	163153.0	1.115425	Y
4	IC 410-336478/6	40.0	43.250667	50.0	165283.0	1.081267	Y
5	IC 410-336478/7	100.0	92.062277	50.0	182187.0	0.920623	Y
6	ICIS 410-336478/8	200.0	177.211954	50.0	179954.0	0.88606	Y
7	IC 410-336478/9	500.0	419.723582	50.0	186059.0	0.839447	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

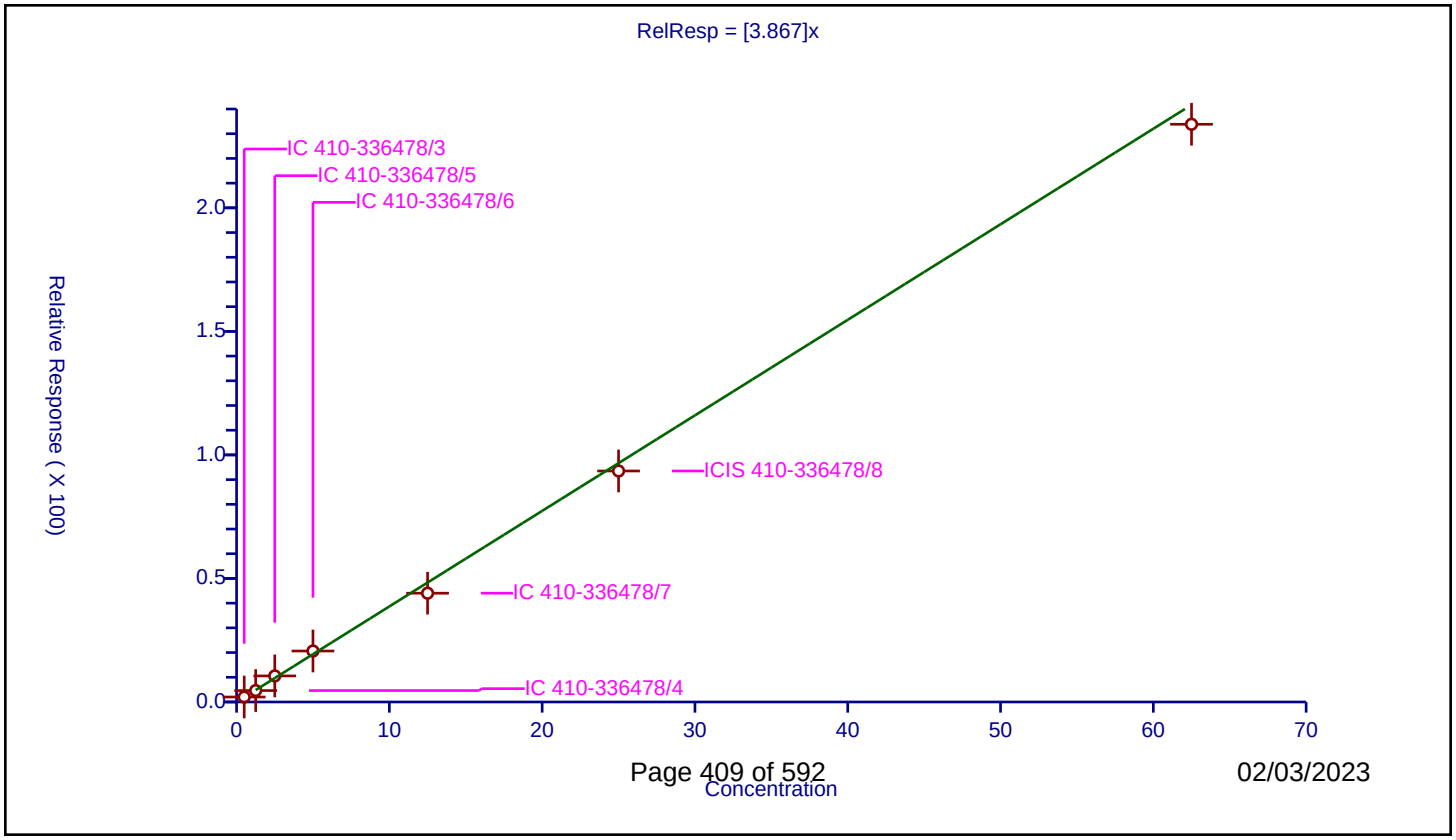
Curve Coefficients

Intercept:	0
Slope:	3.867

Error Coefficients

Standard Error:	388000
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 410-336478/3	0.5	2.007471	50.0	161970.0	4.014941	Y
2	IC 410-336478/4	1.25	4.626691	50.0	174574.0	3.701353	Y
3	IC 410-336478/5	2.5	10.554204	50.0	163153.0	4.221681	Y
4	IC 410-336478/6	5.0	20.634911	50.0	165283.0	4.126982	Y
5	IC 410-336478/7	12.5	44.025644	50.0	182187.0	3.522052	Y
6	ICIS 410-336478/8	25.0	93.491114	50.0	179954.0	3.739645	Y
7	IC 410-336478/9	62.5	233.822067	50.0	186059.0	3.741153	Y



02/03/2023

Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

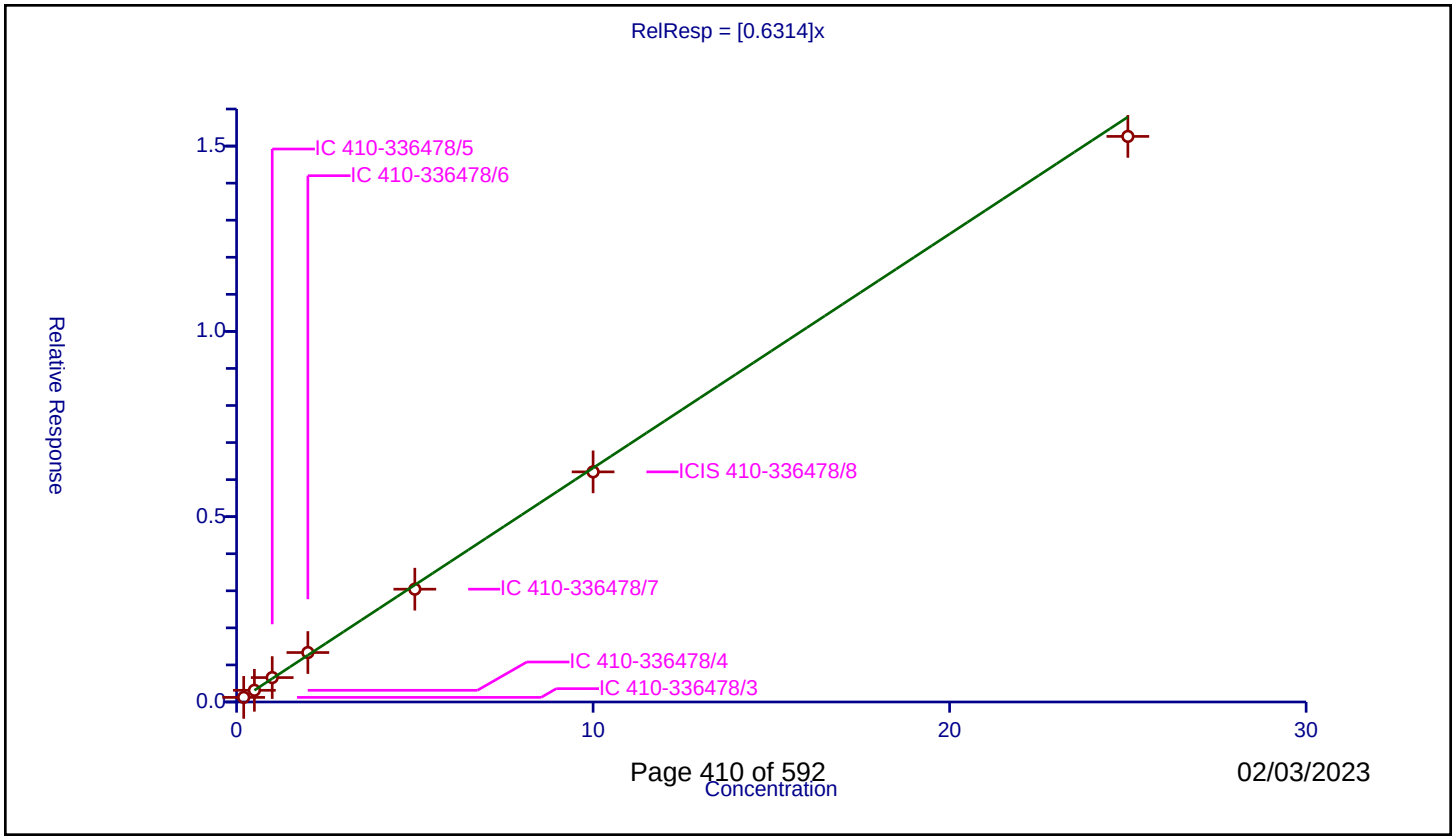
Curve Coefficients

Intercept:	0
Slope:	0.6314

Error Coefficients

Standard Error:	2190000
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 410-336478/3	0.2	0.124465	10.0	2873412.0	0.622326	Y
2	IC 410-336478/4	0.5	0.315589	10.0	2950829.0	0.631179	Y
3	IC 410-336478/5	1.0	0.659089	10.0	2910805.0	0.659089	Y
4	IC 410-336478/6	2.0	1.334065	10.0	2961954.0	0.667033	Y
5	IC 410-336478/7	5.0	3.043711	10.0	3114537.0	0.608742	Y
6	ICIS 410-336478/8	10.0	6.209093	10.0	3141631.0	0.620909	Y
7	IC 410-336478/9	25.0	15.260883	10.0	3205211.0	0.610435	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

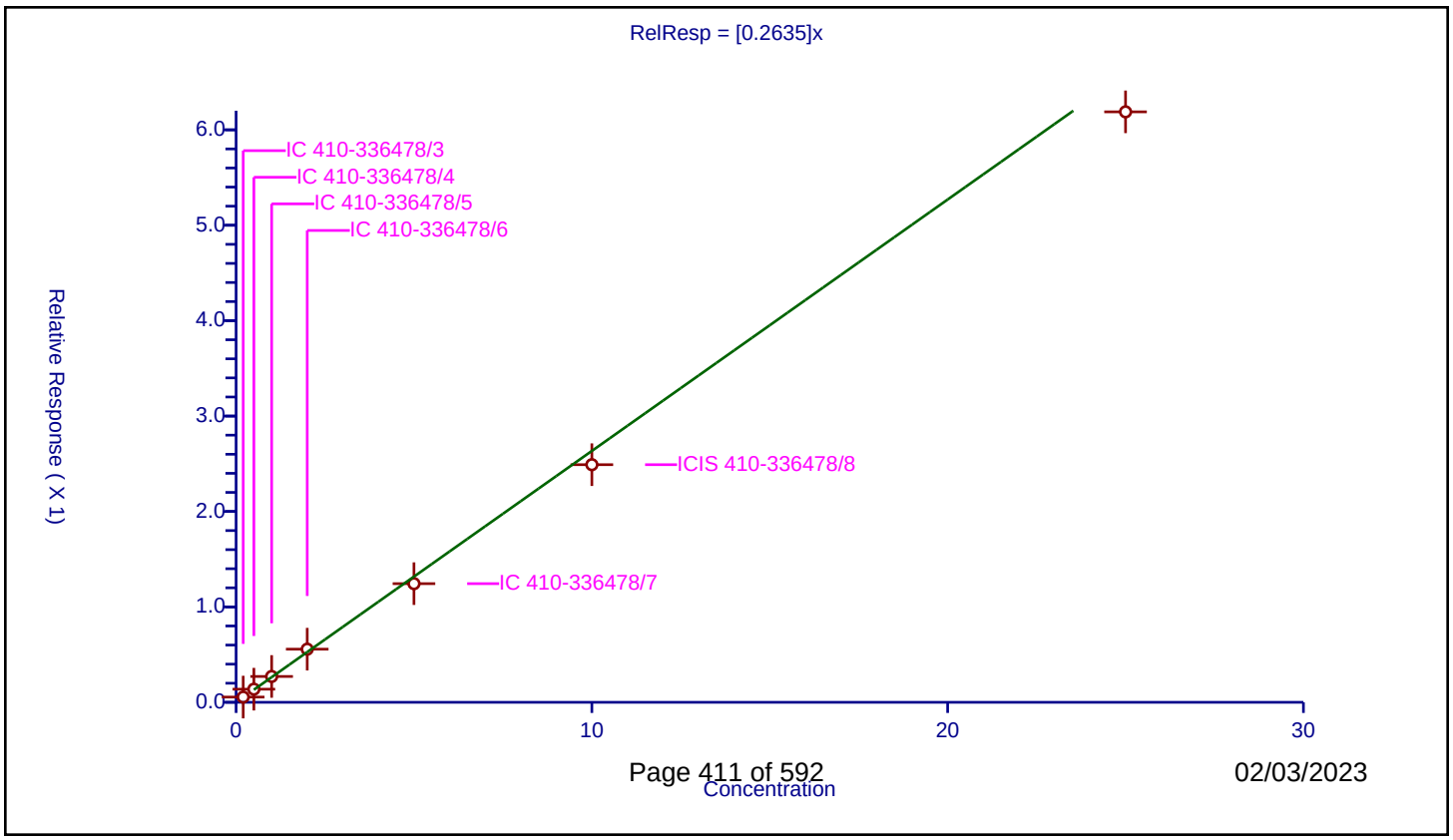
Curve Coefficients

Intercept:	0
Slope:	0.2635

Error Coefficients

Standard Error:	888000
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 410-336478/3	0.2	0.054827	10.0	2873412.0	0.274134	Y
2	IC 410-336478/4	0.5	0.137677	10.0	2950829.0	0.275353	Y
3	IC 410-336478/5	1.0	0.27098	10.0	2910805.0	0.27098	Y
4	IC 410-336478/6	2.0	0.55694	10.0	2961954.0	0.27847	Y
5	IC 410-336478/7	5.0	1.243562	10.0	3114537.0	0.248712	Y
6	ICIS 410-336478/8	10.0	2.490697	10.0	3141631.0	0.24907	Y
7	IC 410-336478/9	25.0	6.188616	10.0	3205211.0	0.247545	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

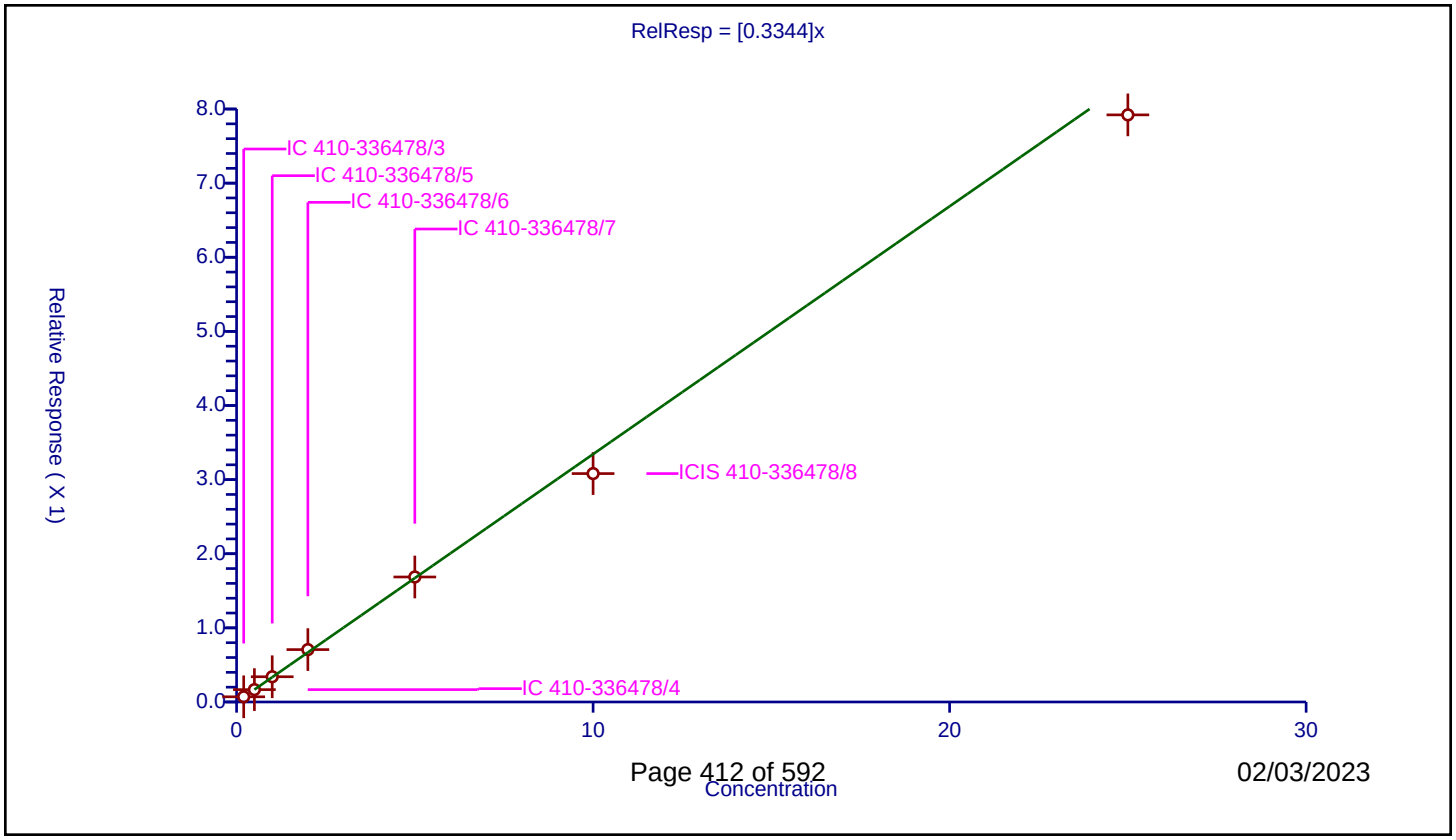
Curve Coefficients

Intercept:	0
Slope:	0.3344

Error Coefficients

Standard Error:	1130000
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 410-336478/3	0.2	0.070133	10.0	2873412.0	0.350663	Y
2	IC 410-336478/4	0.5	0.166831	10.0	2950829.0	0.333662	Y
3	IC 410-336478/5	1.0	0.340572	10.0	2910805.0	0.340572	Y
4	IC 410-336478/6	2.0	0.706723	10.0	2961954.0	0.353361	Y
5	IC 410-336478/7	5.0	1.686398	10.0	3114537.0	0.33728	Y
6	ICIS 410-336478/8	10.0	3.081533	10.0	3141631.0	0.308153	Y
7	IC 410-336478/9	25.0	7.920761	10.0	3205211.0	0.31683	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

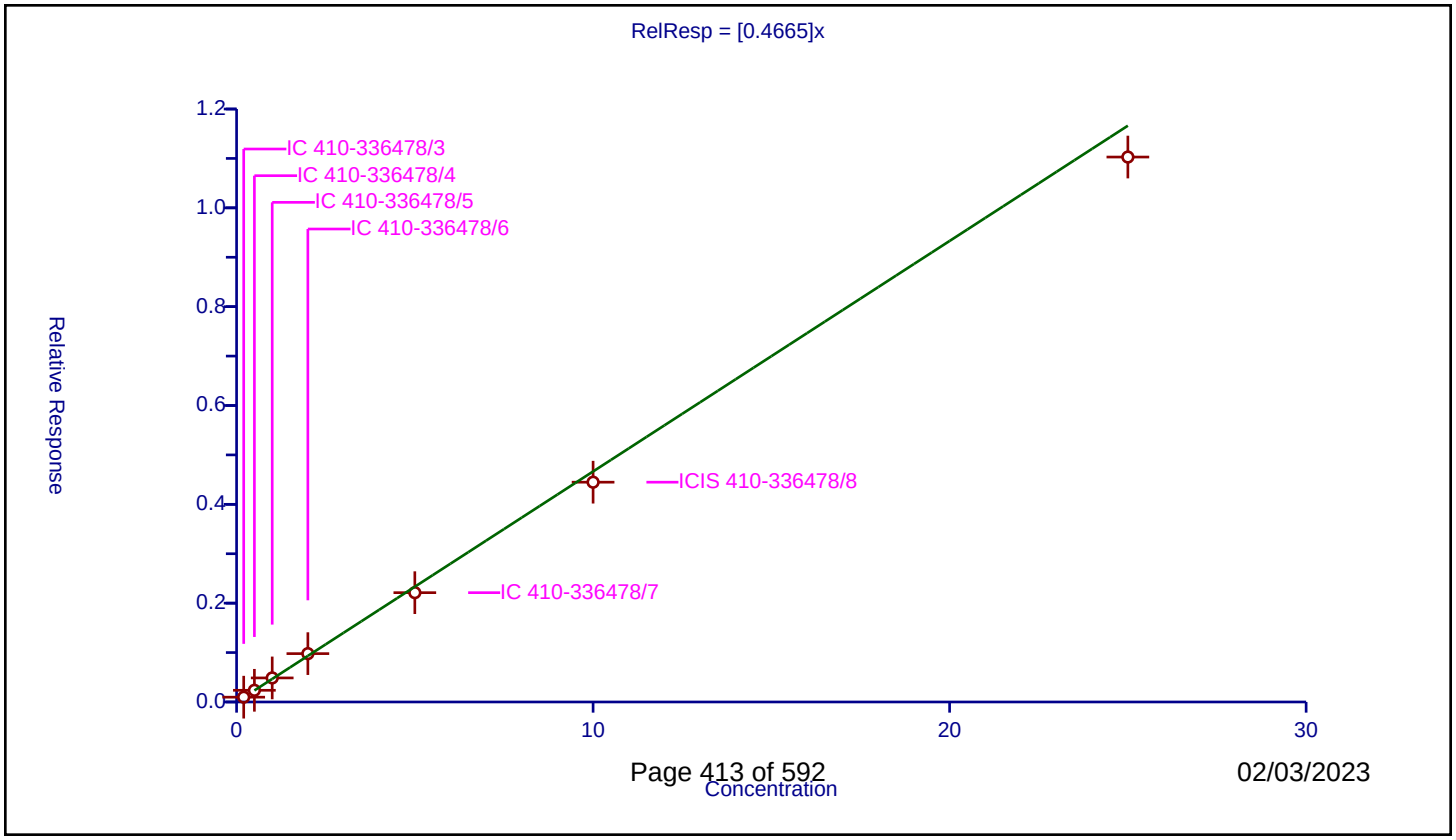
Curve Coefficients

Intercept:	0
Slope:	0.4665

Error Coefficients

Standard Error:	1580000
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 410-336478/3	0.2	0.097574	10.0	2873412.0	0.487869	Y
2	IC 410-336478/4	0.5	0.236388	10.0	2950829.0	0.472776	Y
3	IC 410-336478/5	1.0	0.487185	10.0	2910805.0	0.487185	Y
4	IC 410-336478/6	2.0	0.978398	10.0	2961954.0	0.489199	Y
5	IC 410-336478/7	5.0	2.212554	10.0	3114537.0	0.442511	Y
6	ICIS 410-336478/8	10.0	4.448113	10.0	3141631.0	0.444811	Y
7	IC 410-336478/9	25.0	11.028066	10.0	3205211.0	0.441123	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

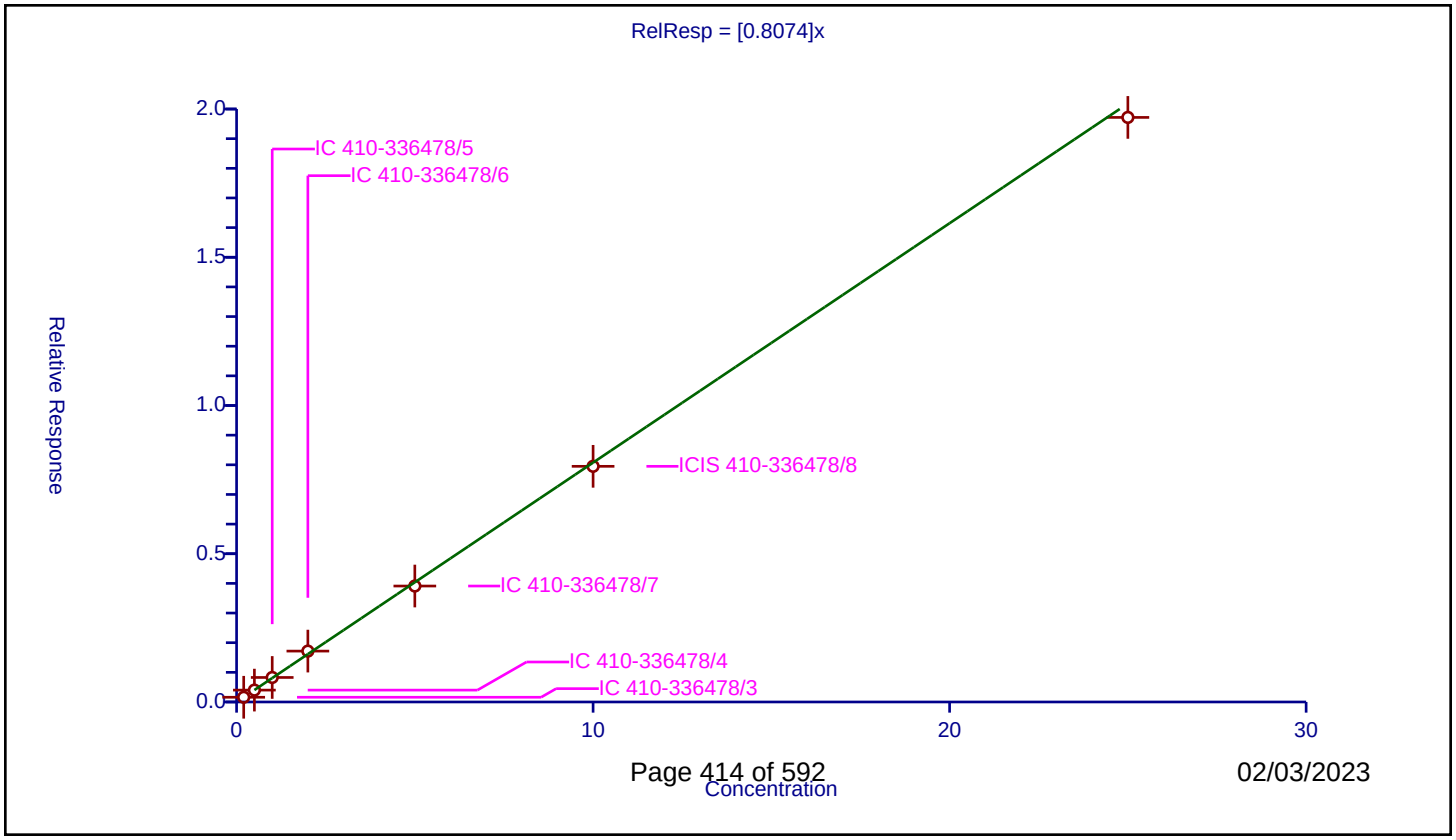
Curve Coefficients

Intercept:	0
Slope:	0.8074

Error Coefficients

Standard Error:	2830000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.159692	10.0	2873412.0	0.798458	Y
2	IC 410-336478/4	0.5	0.400813	10.0	2950829.0	0.801626	Y
3	IC 410-336478/5	1.0	0.827383	10.0	2910805.0	0.827383	Y
4	IC 410-336478/6	2.0	1.716799	10.0	2961954.0	0.8584	Y
5	IC 410-336478/7	5.0	3.910828	10.0	3114537.0	0.782166	Y
6	ICIS 410-336478/8	10.0	7.949046	10.0	3141631.0	0.794905	Y
7	IC 410-336478/9	25.0	19.716746	10.0	3205211.0	0.78867	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

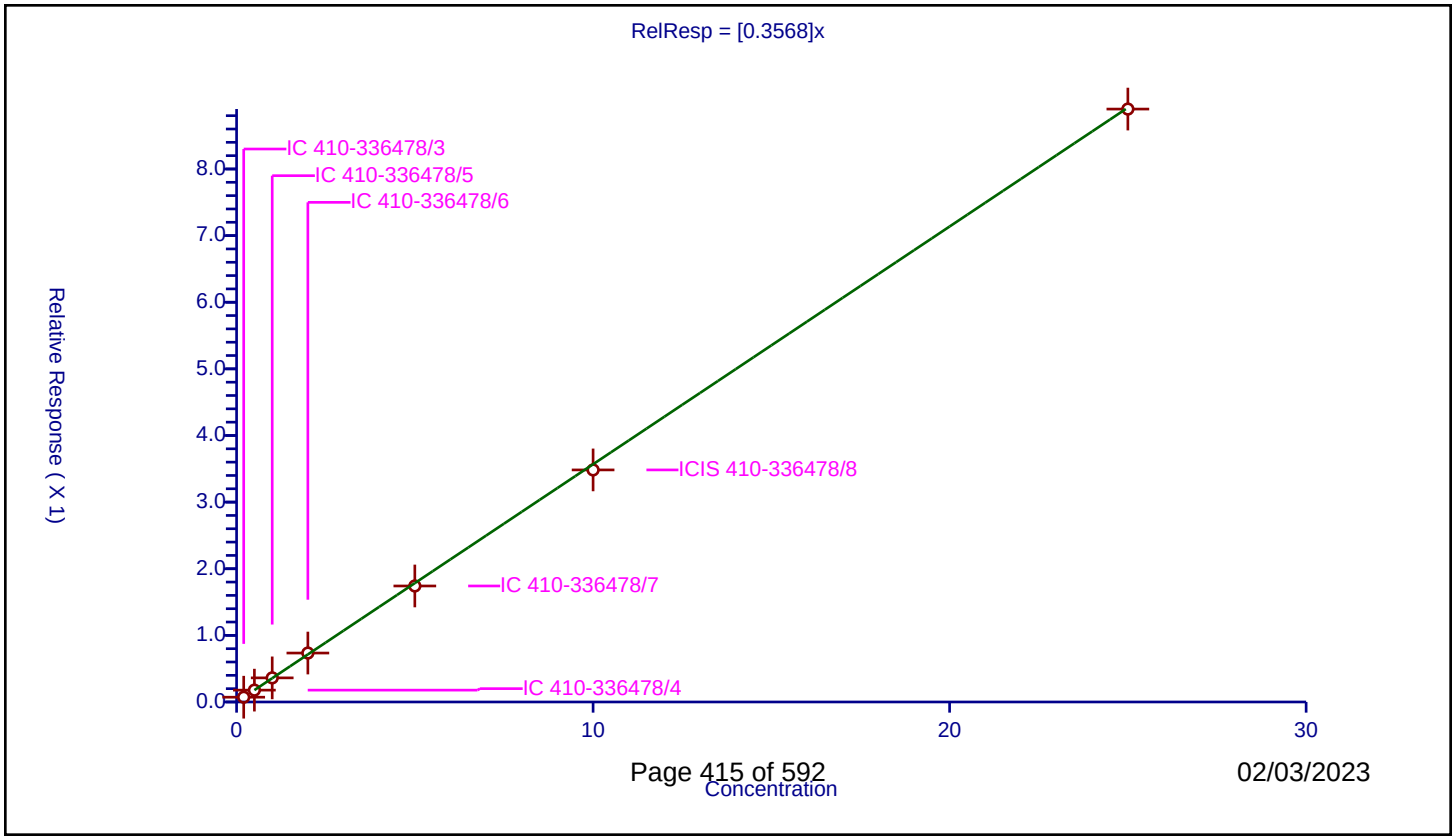
Curve Coefficients

Intercept:	0
Slope:	0.3568

Error Coefficients

Standard Error:	1270000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.071991	10.0	2873412.0	0.359955	Y
2	IC 410-336478/4	0.5	0.178065	10.0	2950829.0	0.35613	Y
3	IC 410-336478/5	1.0	0.361955	10.0	2910805.0	0.361955	Y
4	IC 410-336478/6	2.0	0.734569	10.0	2961954.0	0.367285	Y
5	IC 410-336478/7	5.0	1.741097	10.0	3114537.0	0.348219	Y
6	ICIS 410-336478/8	10.0	3.482971	10.0	3141631.0	0.348297	Y
7	IC 410-336478/9	25.0	8.899277	10.0	3205211.0	0.355971	Y



Calibration / Tert-butyl ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

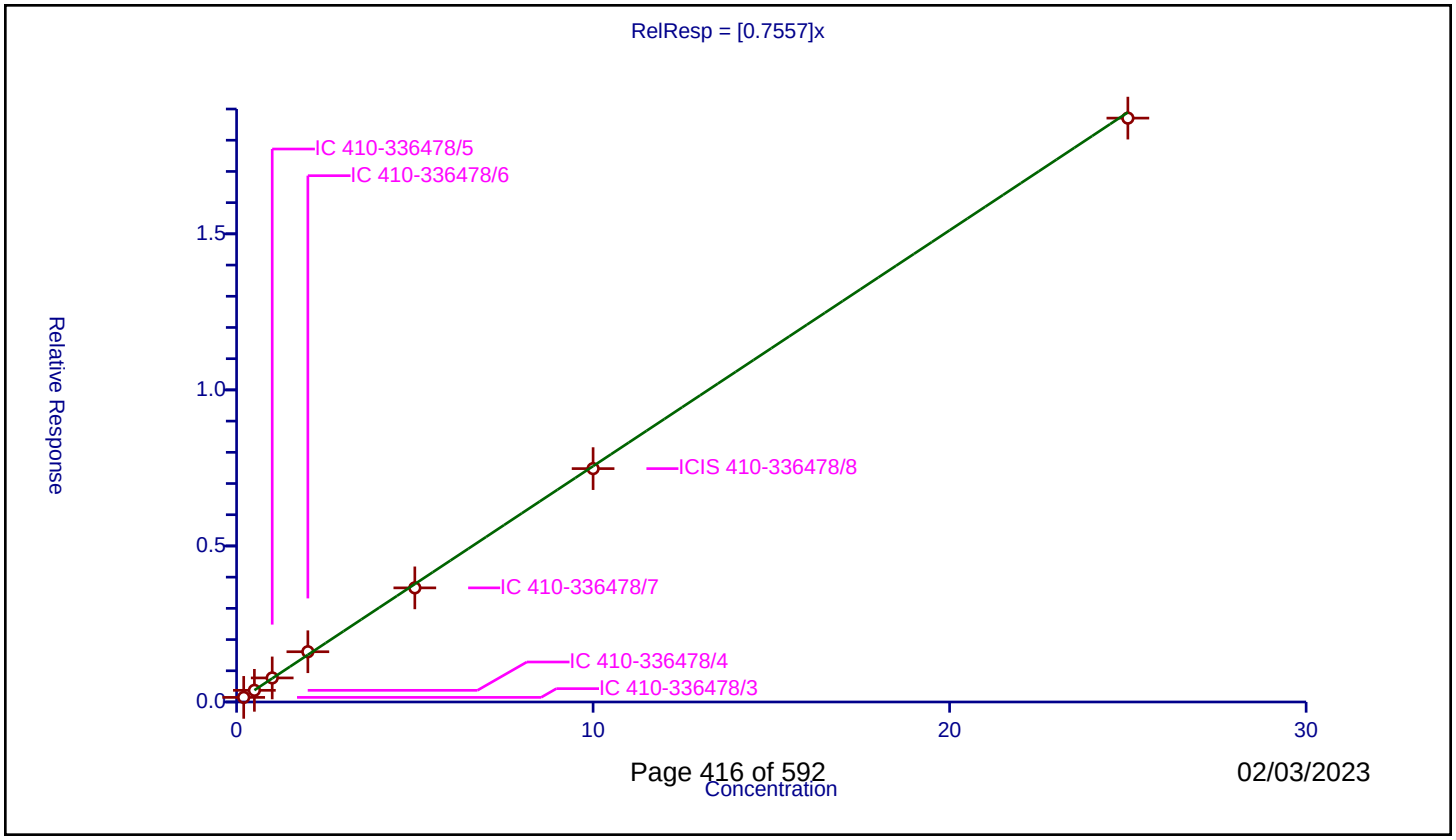
Curve Coefficients

Intercept:	0
Slope:	0.7557

Error Coefficients

Standard Error:	2680000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.147758	10.0	2873412.0	0.738791	Y
2	IC 410-336478/4	0.5	0.373654	10.0	2950829.0	0.747309	Y
3	IC 410-336478/5	1.0	0.771127	10.0	2910805.0	0.771127	Y
4	IC 410-336478/6	2.0	1.610241	10.0	2961954.0	0.805121	Y
5	IC 410-336478/7	5.0	3.656804	10.0	3114537.0	0.731361	Y
6	ICIS 410-336478/8	10.0	7.477473	10.0	3141631.0	0.747747	Y
7	IC 410-336478/9	25.0	18.708325	10.0	3205211.0	0.748333	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

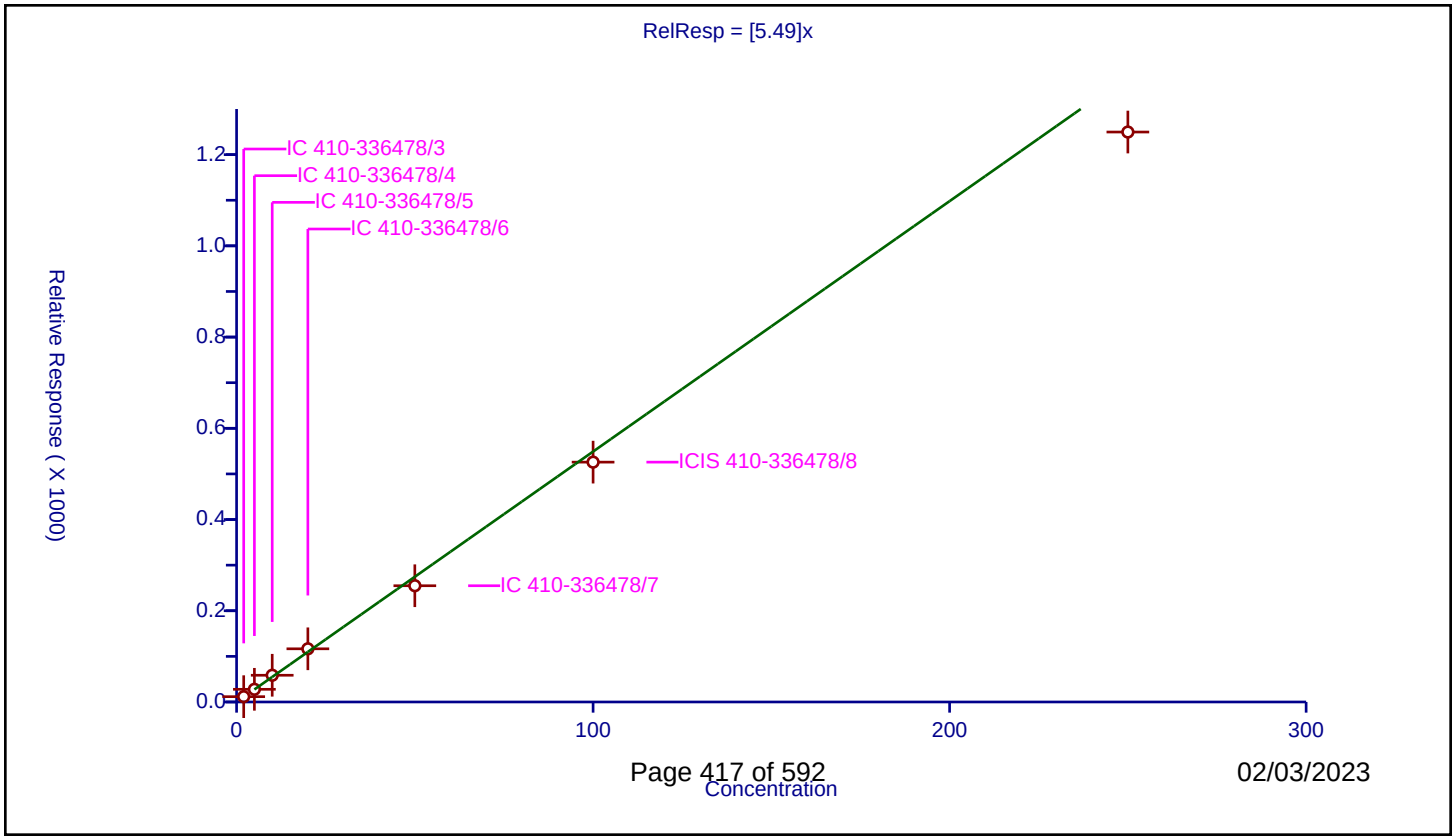
Curve Coefficients

Intercept:	0
Slope:	5.49

Error Coefficients

Standard Error:	2090000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	2.0	11.647836	50.0	161970.0	5.823918	Y
2	IC 410-336478/4	5.0	27.819148	50.0	174574.0	5.56383	Y
3	IC 410-336478/5	10.0	58.598371	50.0	163153.0	5.859837	Y
4	IC 410-336478/6	20.0	116.586703	50.0	165283.0	5.829335	Y
5	IC 410-336478/7	50.0	254.887012	50.0	182187.0	5.09774	Y
6	ICIS 410-336478/8	100.0	525.842715	50.0	179954.0	5.258427	Y
7	IC 410-336478/9	250.0	1249.531331	50.0	186059.0	4.998125	Y



02/03/2023

Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

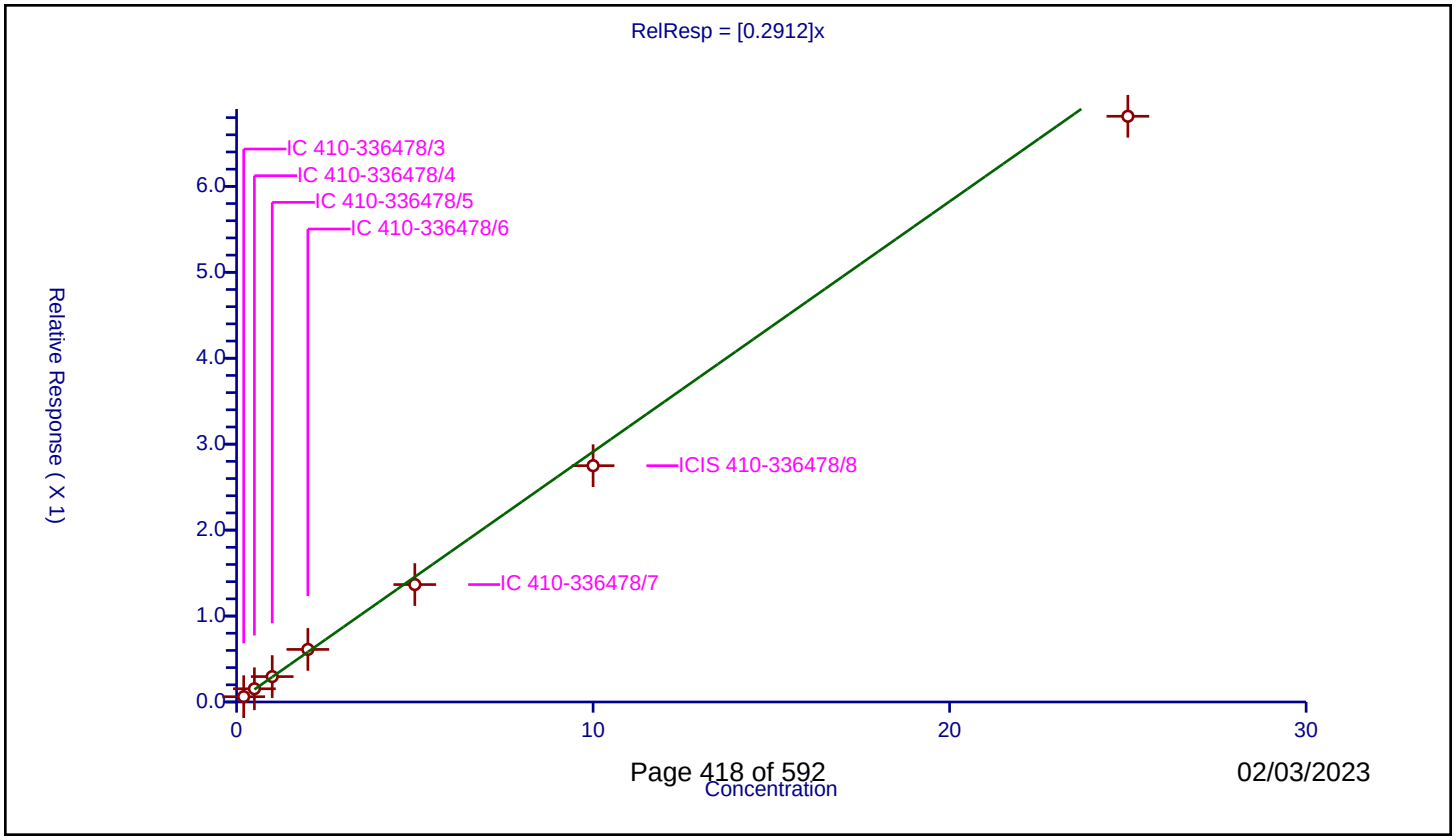
Curve Coefficients

Intercept:	0
Slope:	0.2912

Error Coefficients

Standard Error:	978000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.061686	10.0	2873412.0	0.308431	Y
2	IC 410-336478/4	0.5	0.153865	10.0	2950829.0	0.30773	Y
3	IC 410-336478/5	1.0	0.295557	10.0	2910805.0	0.295557	Y
4	IC 410-336478/6	2.0	0.611772	10.0	2961954.0	0.305886	Y
5	IC 410-336478/7	5.0	1.366415	10.0	3114537.0	0.273283	Y
6	ICIS 410-336478/8	10.0	2.749648	10.0	3141631.0	0.274965	Y
7	IC 410-336478/9	25.0	6.815489	10.0	3205211.0	0.27262	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

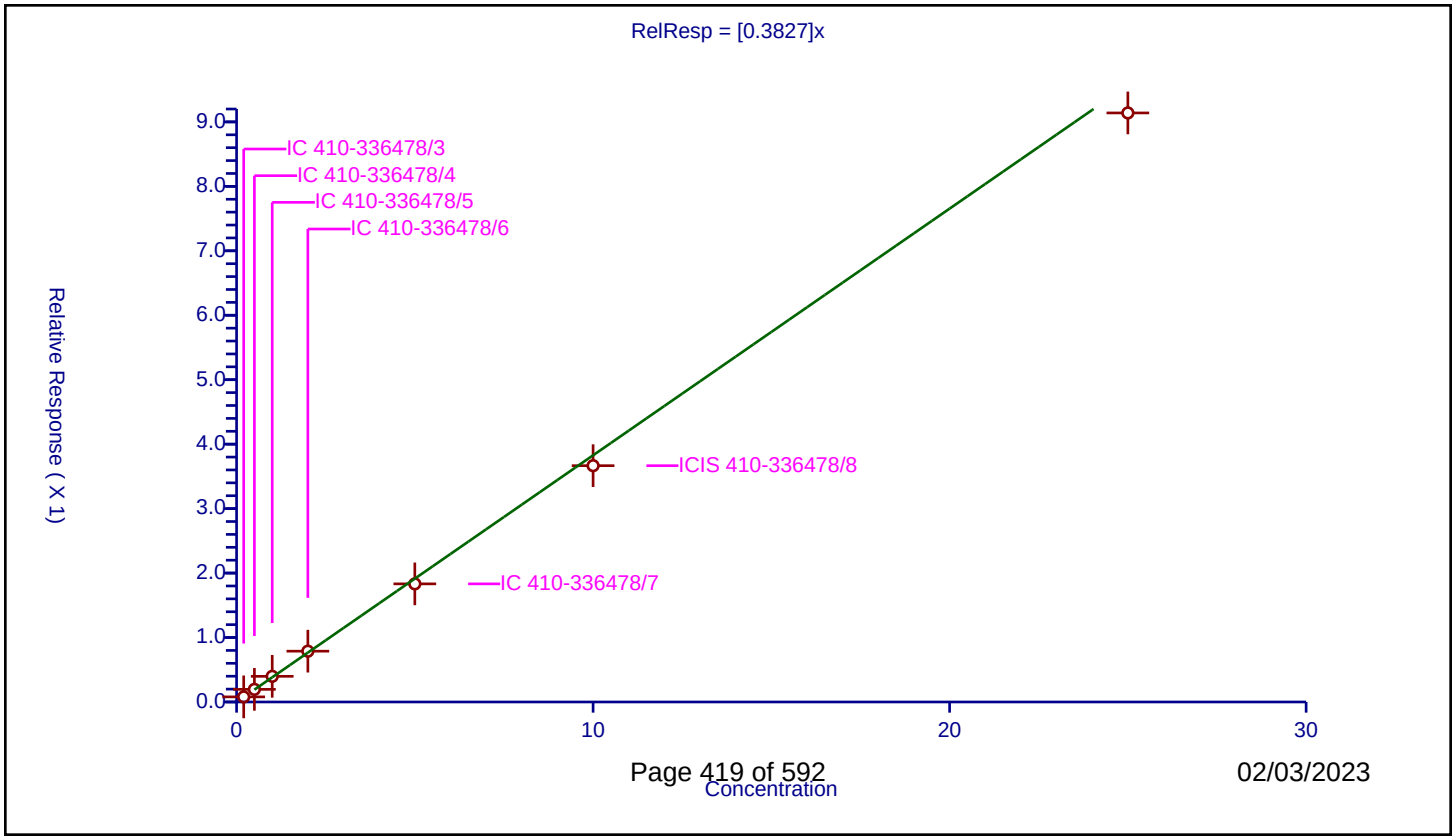
Curve Coefficients

Intercept:	0
Slope:	0.3827

Error Coefficients

Standard Error:	1310000
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 410-336478/3	0.2	0.079153	10.0	2873412.0	0.395766	Y
2	IC 410-336478/4	0.5	0.196036	10.0	2950829.0	0.392073	Y
3	IC 410-336478/5	1.0	0.398213	10.0	2910805.0	0.398213	Y
4	IC 410-336478/6	2.0	0.788561	10.0	2961954.0	0.39428	Y
5	IC 410-336478/7	5.0	1.832728	10.0	3114537.0	0.366546	Y
6	ICIS 410-336478/8	10.0	3.666191	10.0	3141631.0	0.366619	Y
7	IC 410-336478/9	25.0	9.139086	10.0	3205211.0	0.365563	Y



Calibration / Propionitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

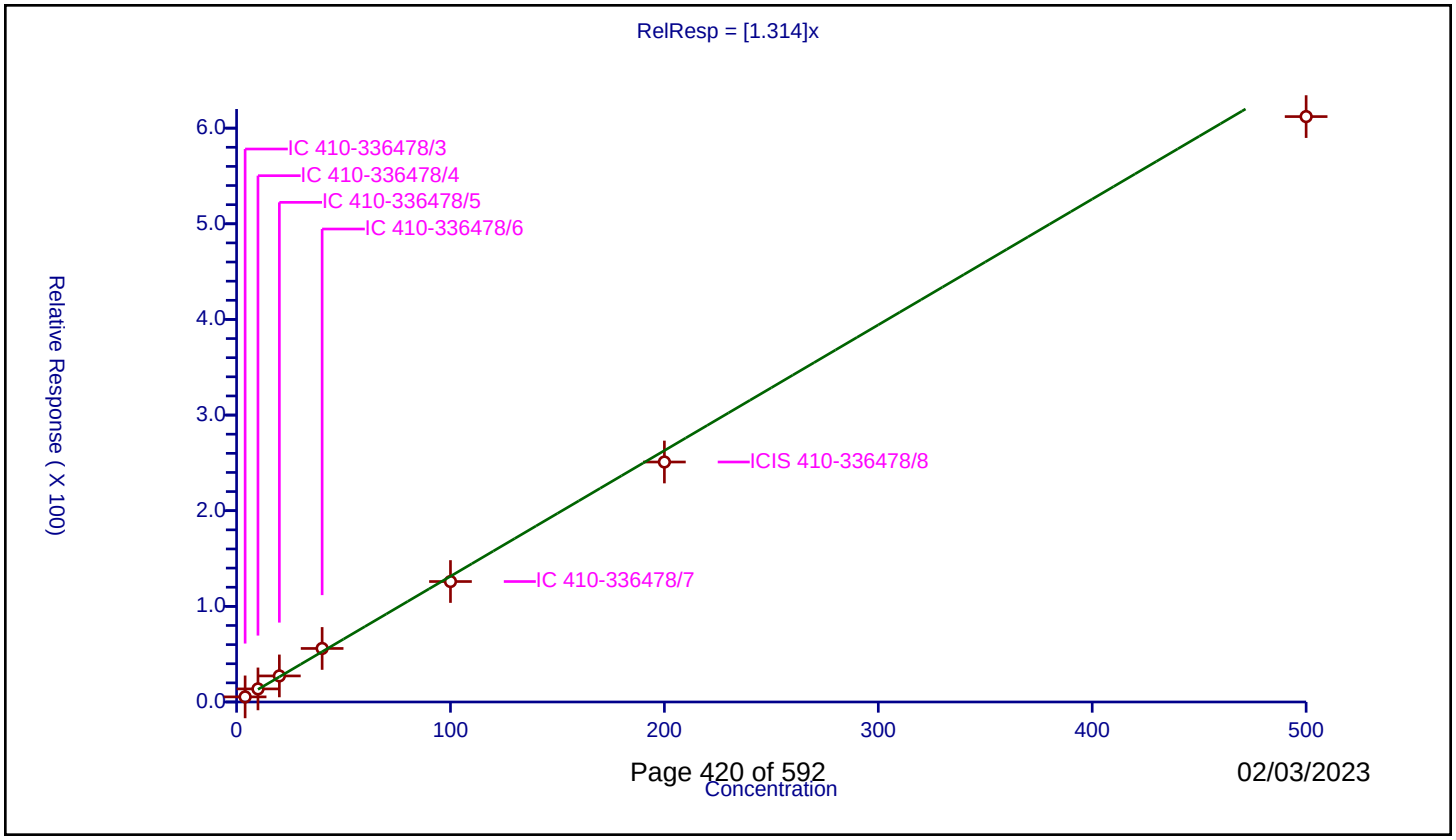
Curve Coefficients

Intercept:	0
Slope:	1.314

Error Coefficients

Standard Error:	1020000
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 410-336478/3	4.0	5.334012	50.0	161970.0	1.333503	Y
2	IC 410-336478/4	10.0	13.67443	50.0	174574.0	1.367443	Y
3	IC 410-336478/5	20.0	27.246511	50.0	163153.0	1.362326	Y
4	IC 410-336478/6	40.0	55.977626	50.0	165283.0	1.399441	Y
5	IC 410-336478/7	100.0	125.955749	50.0	182187.0	1.259557	Y
6	ICIS 410-336478/8	200.0	250.928015	50.0	179954.0	1.25464	Y
7	IC 410-336478/9	500.0	612.087564	50.0	186059.0	1.224175	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

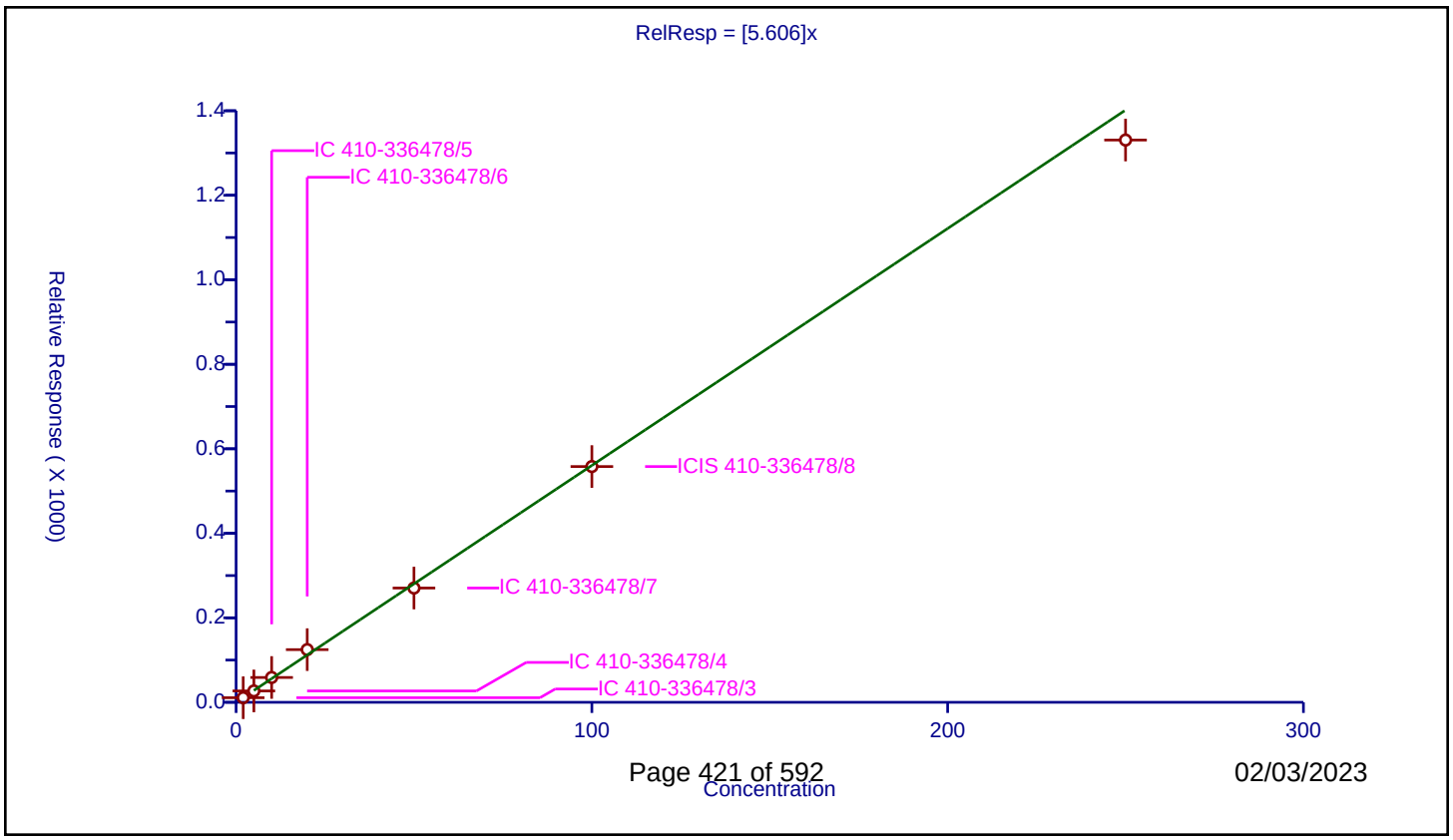
Curve Coefficients

Intercept:	0
Slope:	5.606

Error Coefficients

Standard Error:	2230000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	2.0	10.858184	50.0	161970.0	5.429092	Y
2	IC 410-336478/4	5.0	26.943875	50.0	174574.0	5.388775	Y
3	IC 410-336478/5	10.0	58.803393	50.0	163153.0	5.880339	Y
4	IC 410-336478/6	20.0	124.713975	50.0	165283.0	6.235699	Y
5	IC 410-336478/7	50.0	270.423246	50.0	182187.0	5.408465	Y
6	ICIS 410-336478/8	100.0	557.983429	50.0	179954.0	5.579834	Y
7	IC 410-336478/9	250.0	1330.70397	50.0	186059.0	5.322816	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

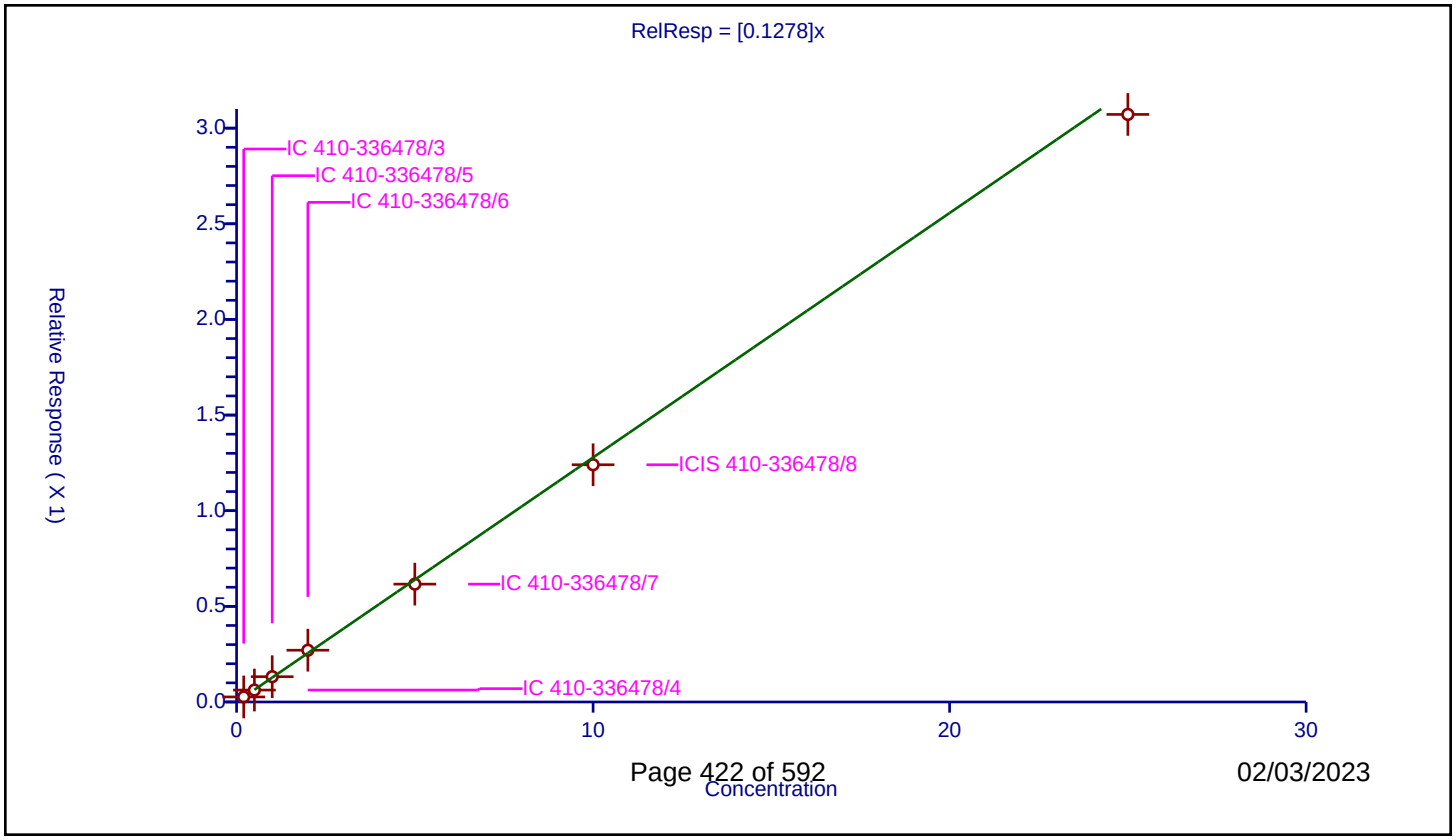
Curve Coefficients

Intercept:	0
Slope:	0.1278

Error Coefficients

Standard Error:	441000
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 410-336478/3	0.2	0.026432	10.0	2873412.0	0.13216	Y
2	IC 410-336478/4	0.5	0.06245	10.0	2950829.0	0.1249	Y
3	IC 410-336478/5	1.0	0.132207	10.0	2910805.0	0.132207	Y
4	IC 410-336478/6	2.0	0.270676	10.0	2961954.0	0.135338	Y
5	IC 410-336478/7	5.0	0.616162	10.0	3114537.0	0.123232	Y
6	ICIS 410-336478/8	10.0	1.240314	10.0	3141631.0	0.124031	Y
7	IC 410-336478/9	25.0	3.071639	10.0	3205211.0	0.122866	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

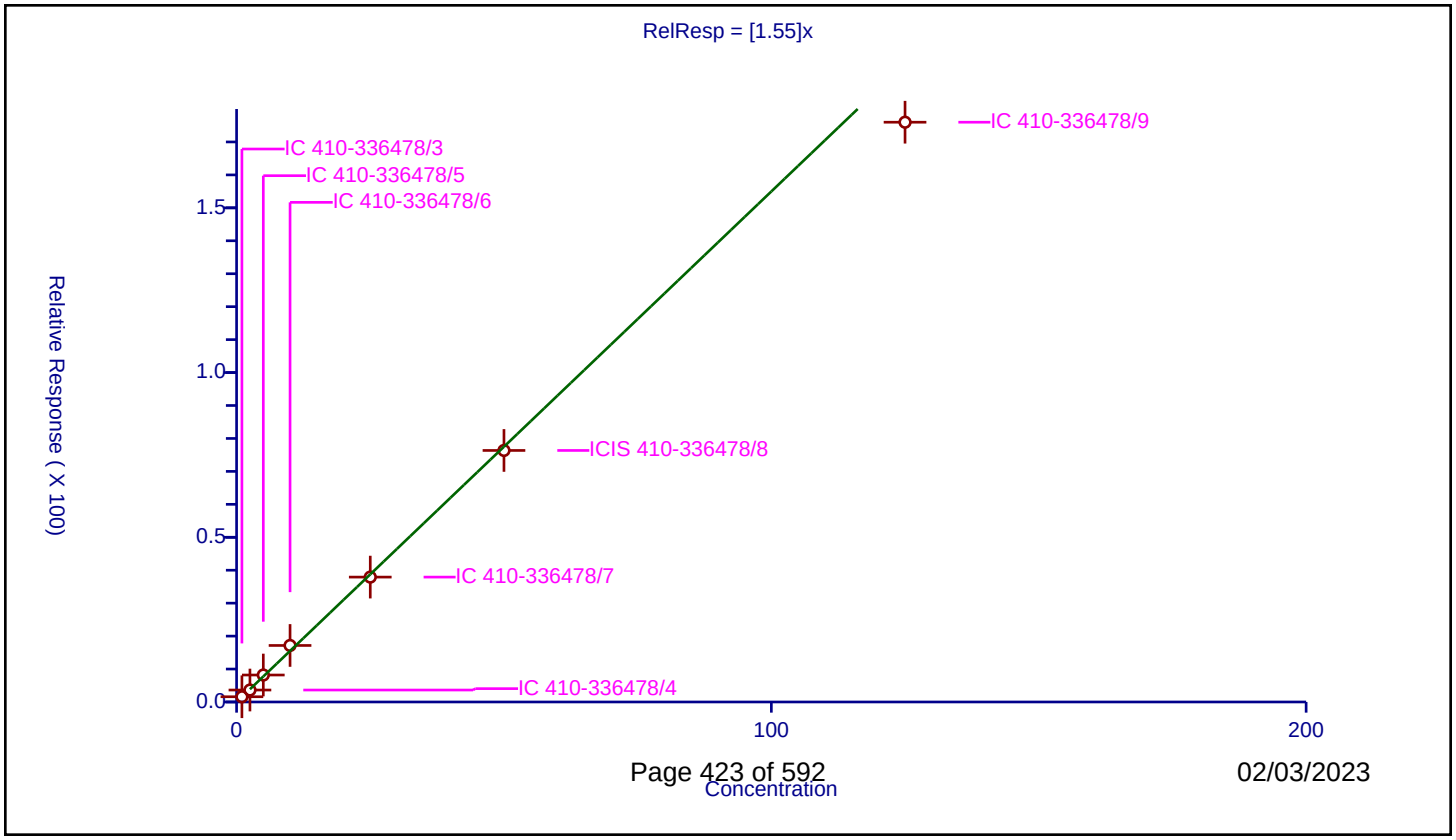
Curve Coefficients

Intercept:	0
Slope:	1.55

Error Coefficients

Standard Error:	296000
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 410-336478/3	1.0	1.590727	50.0	161970.0	1.590727	Y
2	IC 410-336478/4	2.5	3.633989	50.0	174574.0	1.453596	Y
3	IC 410-336478/5	5.0	8.185875	50.0	163153.0	1.637175	Y
4	IC 410-336478/6	10.0	17.155424	50.0	165283.0	1.715542	Y
5	IC 410-336478/7	25.0	37.911047	50.0	182187.0	1.516442	Y
6	ICIS 410-336478/8	50.0	76.350623	50.0	179954.0	1.527012	Y
7	IC 410-336478/9	125.0	175.994443	50.0	186059.0	1.407956	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

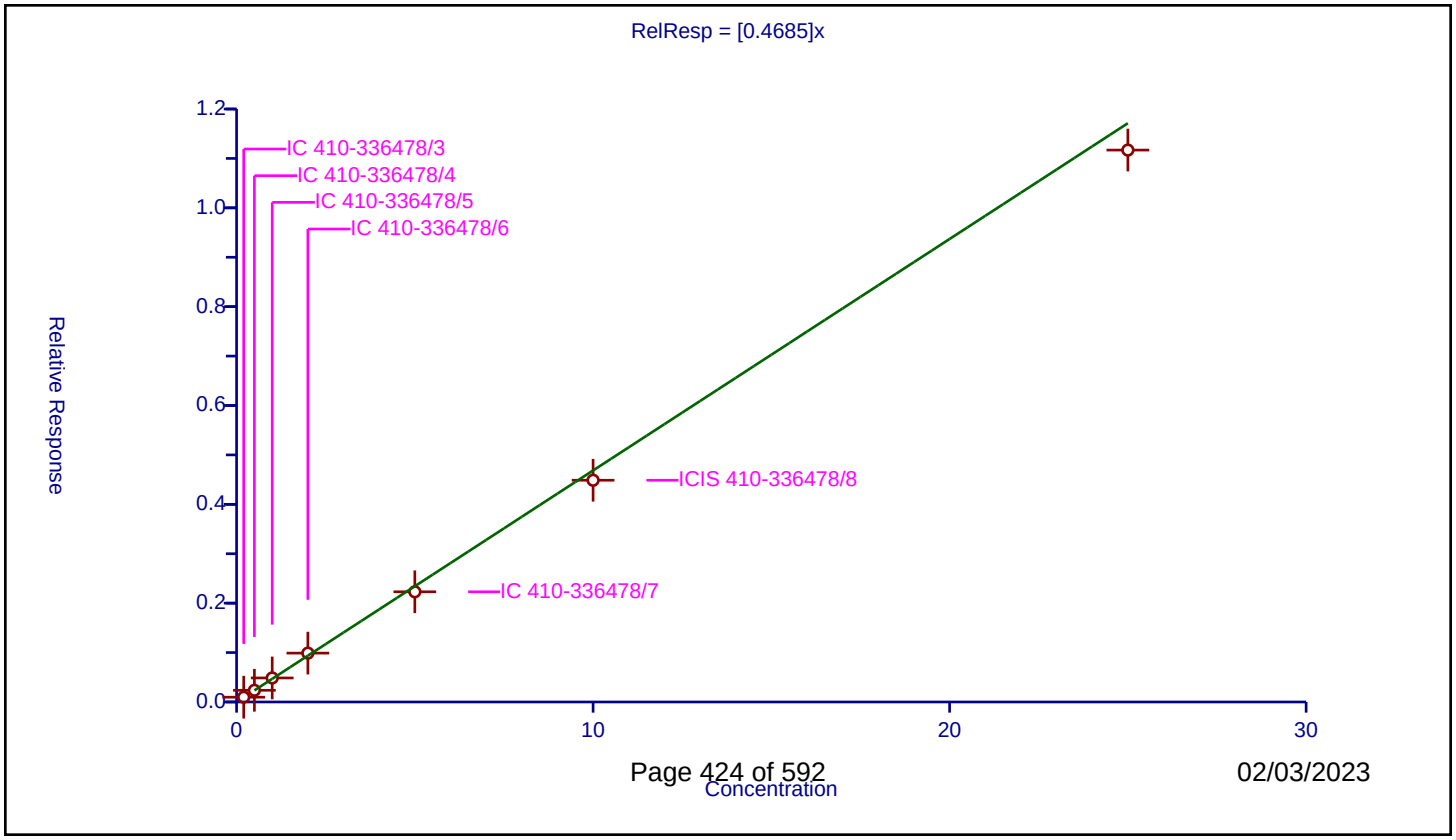
Curve Coefficients

Intercept:	0
Slope:	0.4685

Error Coefficients

Standard Error:	1600000
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 410-336478/3	0.2	0.096746	10.0	2873412.0	0.483728	Y
2	IC 410-336478/4	0.5	0.236547	10.0	2950829.0	0.473094	Y
3	IC 410-336478/5	1.0	0.486669	10.0	2910805.0	0.486669	Y
4	IC 410-336478/6	2.0	0.988813	10.0	2961954.0	0.494407	Y
5	IC 410-336478/7	5.0	2.230014	10.0	3114537.0	0.446003	Y
6	ICIS 410-336478/8	10.0	4.48751	10.0	3141631.0	0.448751	Y
7	IC 410-336478/9	25.0	11.168965	10.0	3205211.0	0.446759	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

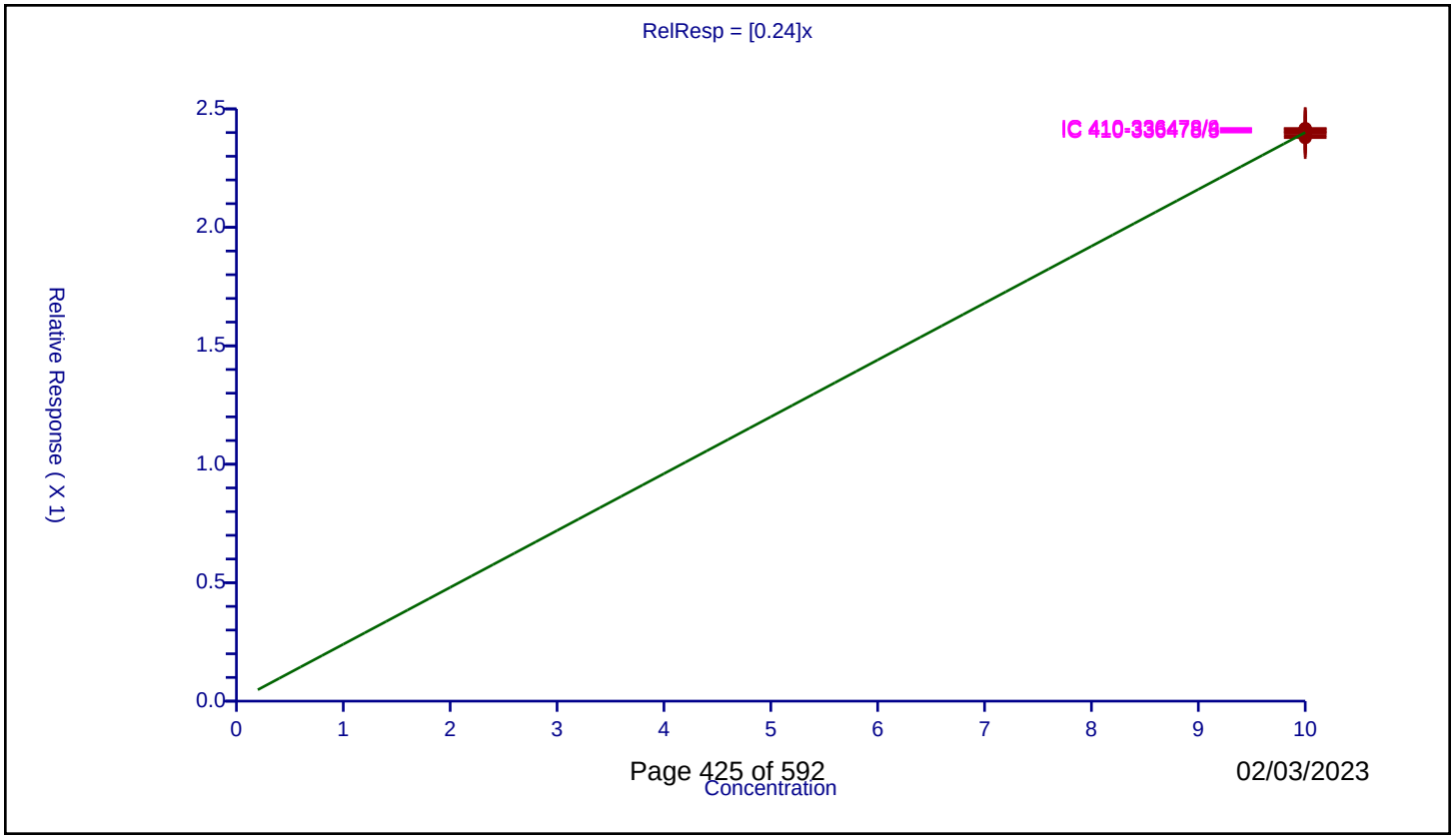
Curve Coefficients

Intercept:	0
Slope:	0.24

Error Coefficients

Standard Error:	784000
Relative Standard Error:	0.6
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	10.0	2.378796	10.0	2873412.0	0.23788	Y
2	IC 410-336478/4	10.0	2.415396	10.0	2950829.0	0.24154	Y
3	IC 410-336478/5	10.0	2.402229	10.0	2910805.0	0.240223	Y
4	IC 410-336478/6	10.0	2.405969	10.0	2961954.0	0.240597	Y
5	IC 410-336478/7	10.0	2.387087	10.0	3114537.0	0.238709	Y
6	ICIS 410-336478/8	10.0	2.396695	10.0	3141631.0	0.239669	Y
7	IC 410-336478/9	10.0	2.416936	10.0	3205211.0	0.241694	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

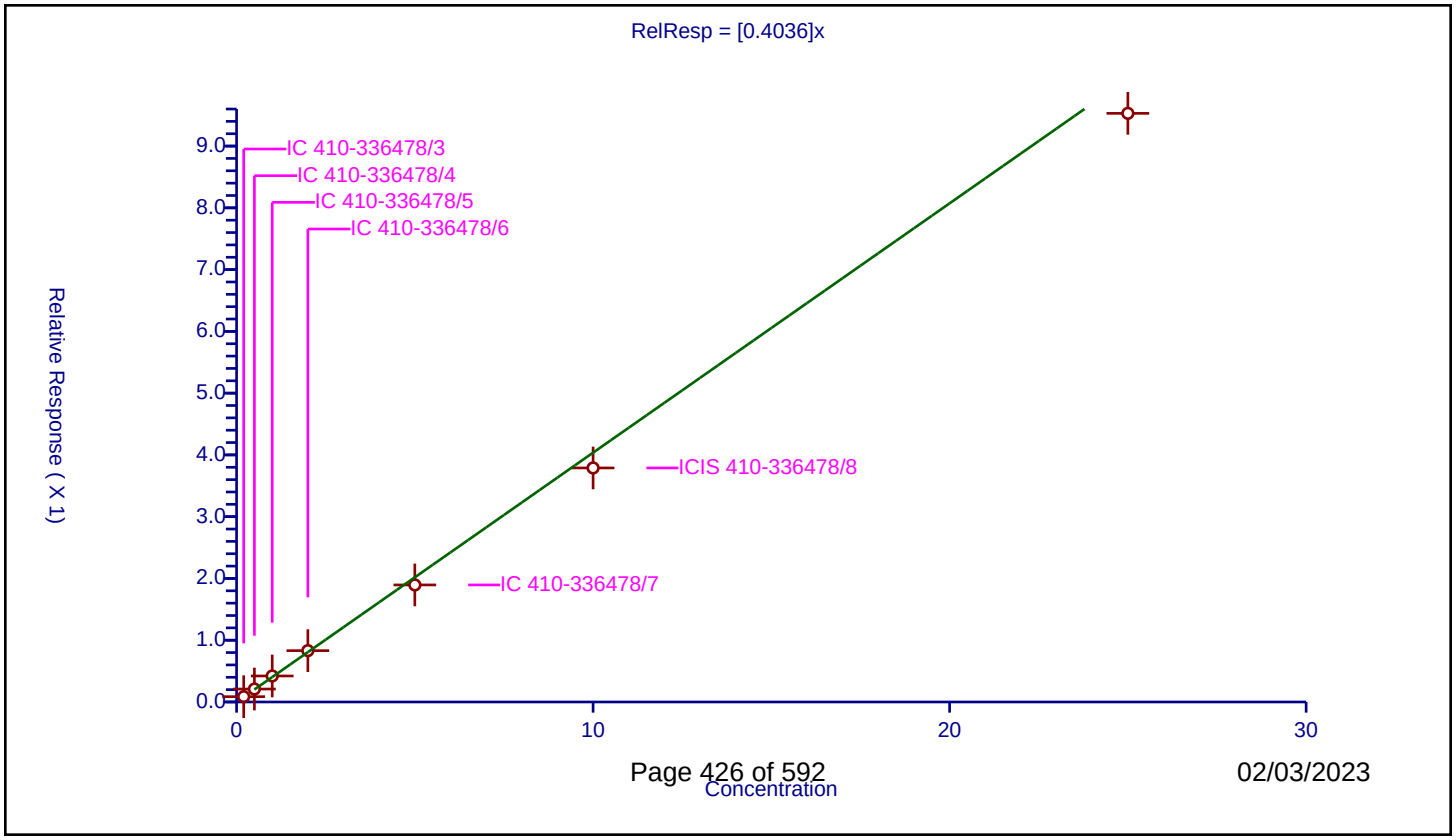
Curve Coefficients

Intercept:	0
Slope:	0.4036

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.086041	10.0	2873412.0	0.430203	Y
2	IC 410-336478/4	0.5	0.209619	10.0	2950829.0	0.419238	Y
3	IC 410-336478/5	1.0	0.421289	10.0	2910805.0	0.421289	Y
4	IC 410-336478/6	2.0	0.831319	10.0	2961954.0	0.41566	Y
5	IC 410-336478/7	5.0	1.895052	10.0	3114537.0	0.37901	Y
6	ICIS 410-336478/8	10.0	3.789019	10.0	3141631.0	0.378902	Y
7	IC 410-336478/9	25.0	9.529669	10.0	3205211.0	0.381187	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

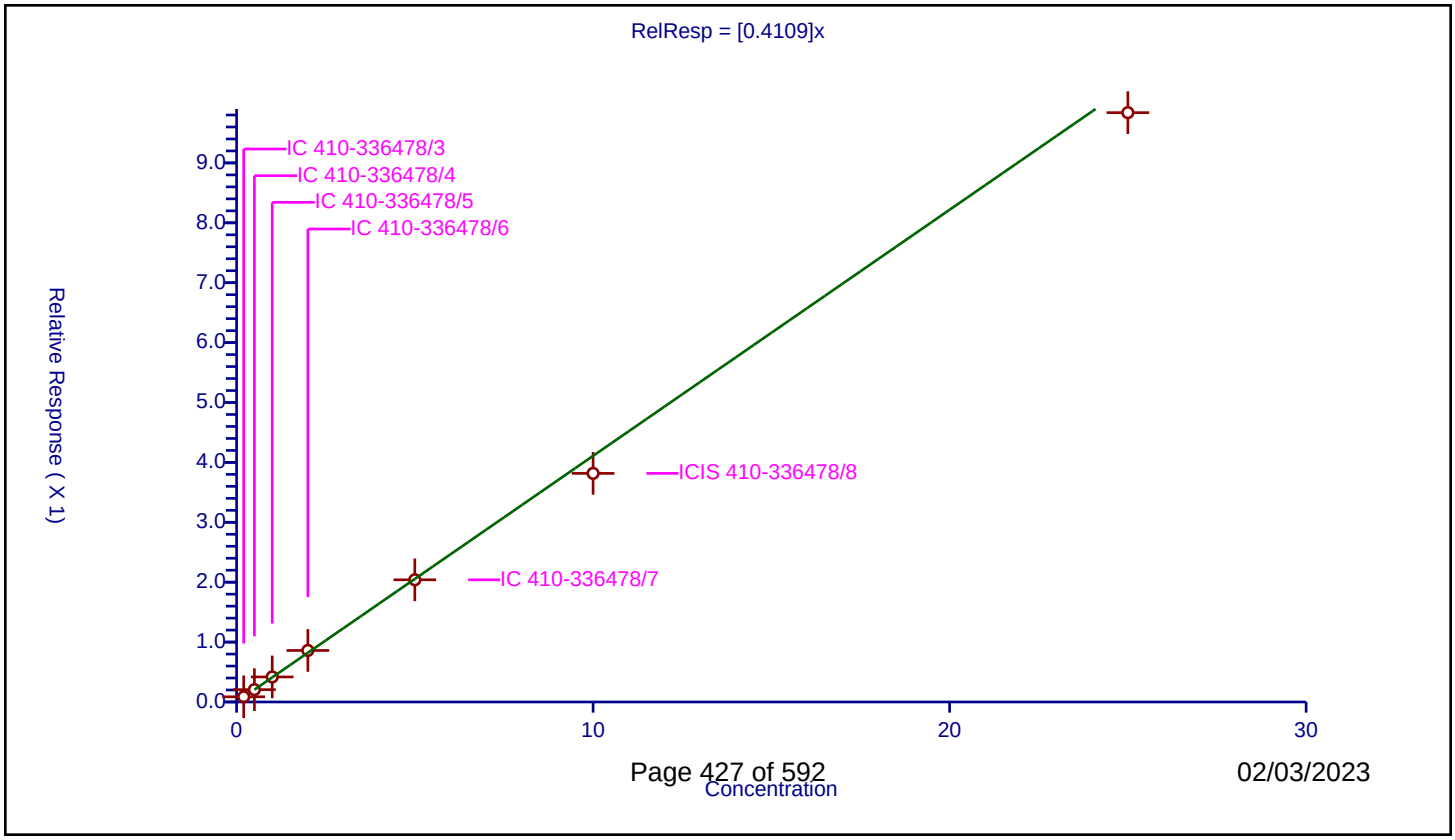
Curve Coefficients

Intercept:	0
Slope:	0.4109

Error Coefficients

Standard Error:	1410000
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 410-336478/3	0.2	0.0865	10.0	2873412.0	0.4325	Y
2	IC 410-336478/4	0.5	0.206122	10.0	2950829.0	0.412243	Y
3	IC 410-336478/5	1.0	0.418101	10.0	2910805.0	0.418101	Y
4	IC 410-336478/6	2.0	0.860267	10.0	2961954.0	0.430133	Y
5	IC 410-336478/7	5.0	2.040088	10.0	3114537.0	0.408018	Y
6	ICIS 410-336478/8	10.0	3.816744	10.0	3141631.0	0.381674	Y
7	IC 410-336478/9	25.0	9.839249	10.0	3205211.0	0.39357	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

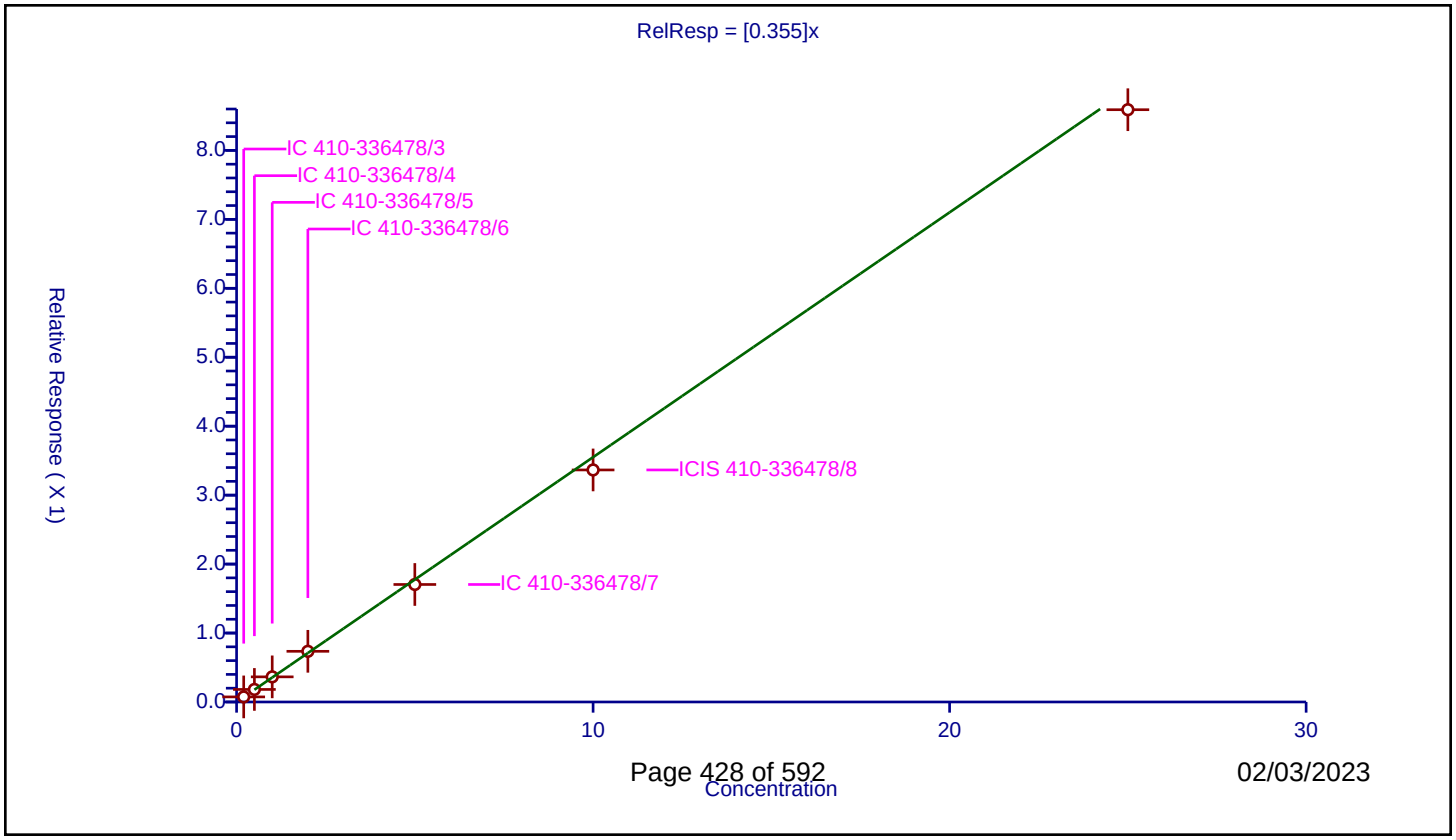
Curve Coefficients

Intercept:	0
Slope:	0.355

Error Coefficients

Standard Error:	1230000
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 410-336478/3	0.2	0.073609	10.0	2873412.0	0.368047	Y
2	IC 410-336478/4	0.5	0.182105	10.0	2950829.0	0.36421	Y
3	IC 410-336478/5	1.0	0.364473	10.0	2910805.0	0.364473	Y
4	IC 410-336478/6	2.0	0.735146	10.0	2961954.0	0.367573	Y
5	IC 410-336478/7	5.0	1.704196	10.0	3114537.0	0.340839	Y
6	ICIS 410-336478/8	10.0	3.365427	10.0	3141631.0	0.336543	Y
7	IC 410-336478/9	25.0	8.590052	10.0	3205211.0	0.343602	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

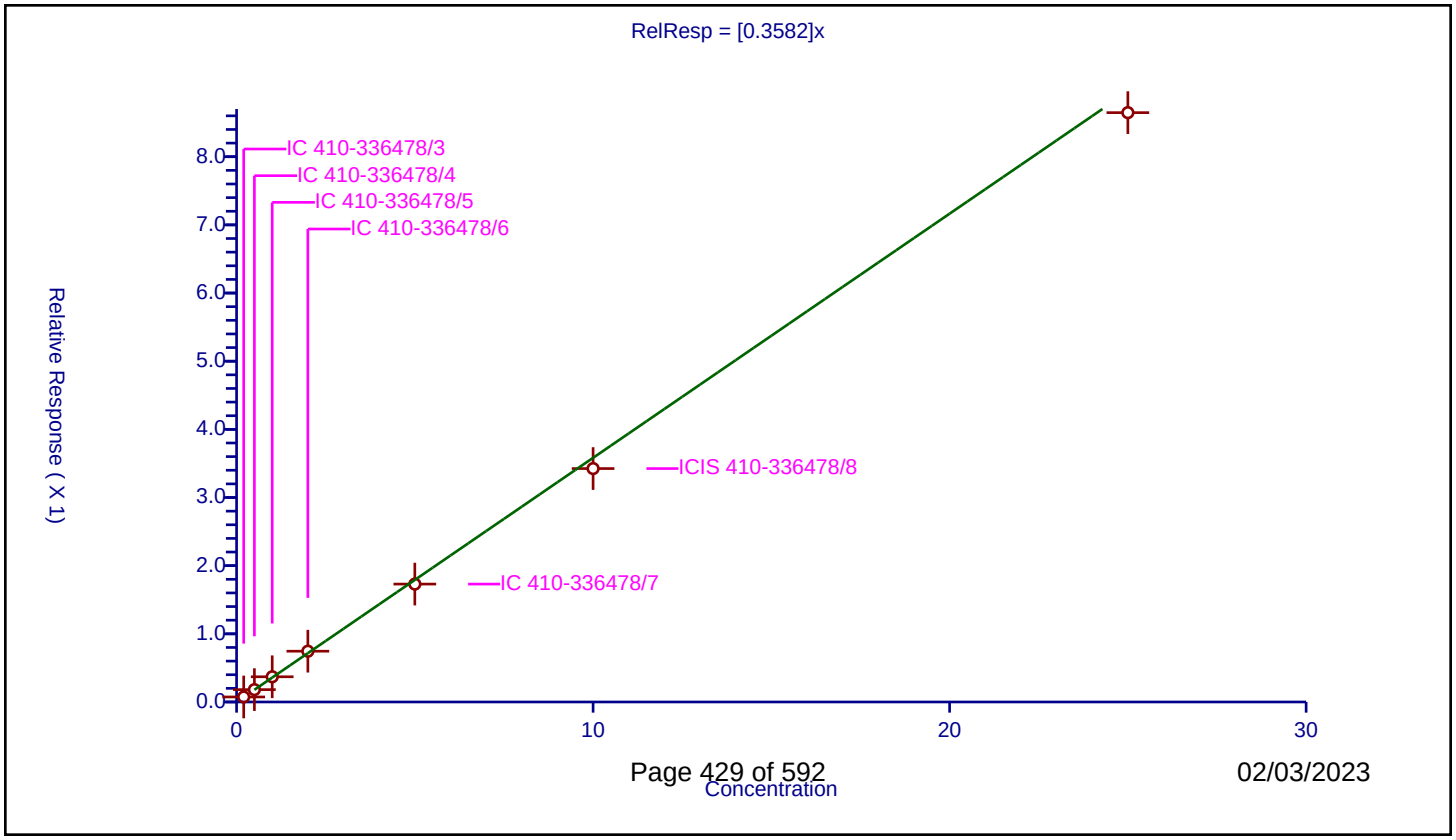
Curve Coefficients

Intercept:	0
Slope:	0.3582

Error Coefficients

Standard Error:	1240000
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 410-336478/3	0.2	0.073609	10.0	2873412.0	0.368047	Y
2	IC 410-336478/4	0.5	0.181457	10.0	2950829.0	0.362915	Y
3	IC 410-336478/5	1.0	0.369791	10.0	2910805.0	0.369791	Y
4	IC 410-336478/6	2.0	0.744958	10.0	2961954.0	0.372479	Y
5	IC 410-336478/7	5.0	1.729939	10.0	3114537.0	0.345988	Y
6	ICIS 410-336478/8	10.0	3.424727	10.0	3141631.0	0.342473	Y
7	IC 410-336478/9	25.0	8.646729	10.0	3205211.0	0.345869	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

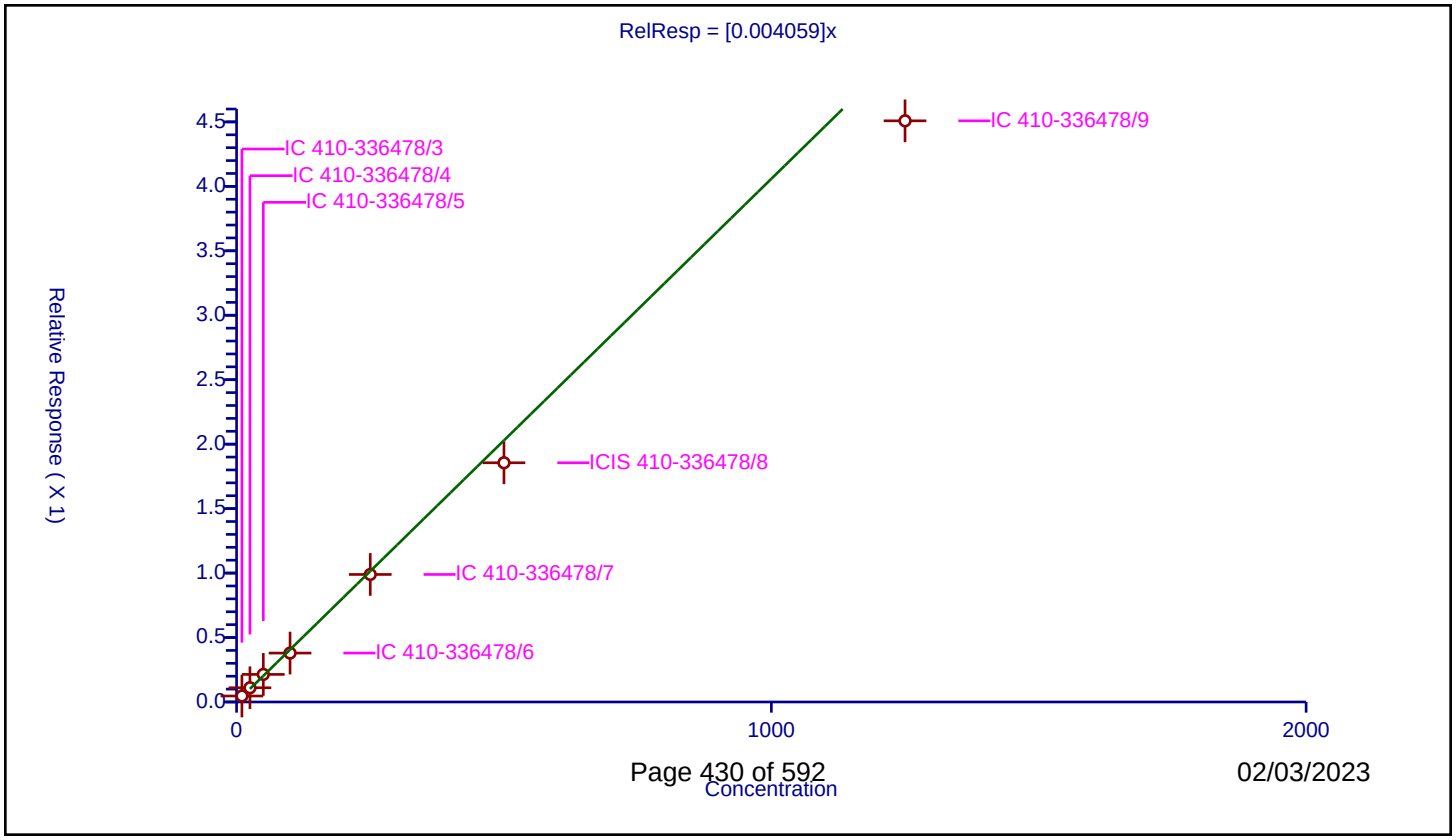
Curve Coefficients

Intercept:	0
Slope:	0.004059

Error Coefficients

Standard Error:	651000
Relative Standard Error:	9.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	10.0	0.046436	10.0	2873412.0	0.004644	Y
2	IC 410-336478/4	25.0	0.110349	10.0	2950829.0	0.004414	Y
3	IC 410-336478/5	50.0	0.214095	10.0	2910805.0	0.004282	Y
4	IC 410-336478/6	100.0	0.379483	10.0	2961954.0	0.003795	Y
5	IC 410-336478/7	250.0	0.9893	10.0	3114537.0	0.003957	Y
6	ICIS 410-336478/8	500.0	1.855743	10.0	3141631.0	0.003711	Y
7	IC 410-336478/9	1250.0	4.508393	10.0	3205211.0	0.003607	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

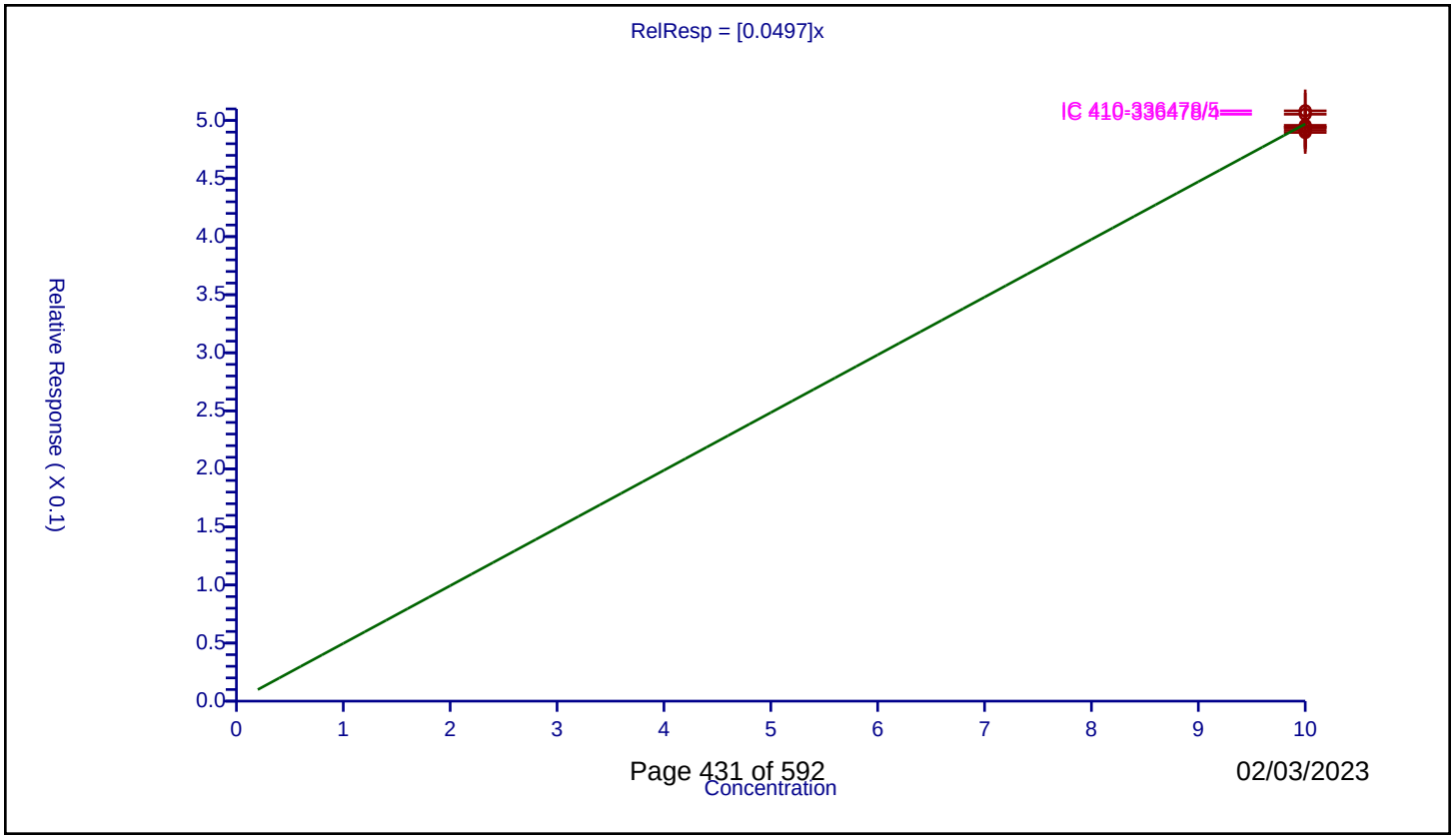
Curve Coefficients

Intercept:	0
Slope:	0.0497

Error Coefficients

Standard Error:	162000
Relative Standard Error:	1.4
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	10.0	0.494075	10.0	2873412.0	0.049407	Y
2	IC 410-336478/4	10.0	0.5054	10.0	2950829.0	0.05054	Y
3	IC 410-336478/5	10.0	0.50831	10.0	2910805.0	0.050831	Y
4	IC 410-336478/6	10.0	0.495858	10.0	2961954.0	0.049586	Y
5	IC 410-336478/7	10.0	0.494028	10.0	3114537.0	0.049403	Y
6	ICIS 410-336478/8	10.0	0.489685	10.0	3141631.0	0.048969	Y
7	IC 410-336478/9	10.0	0.491599	10.0	3205211.0	0.04916	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

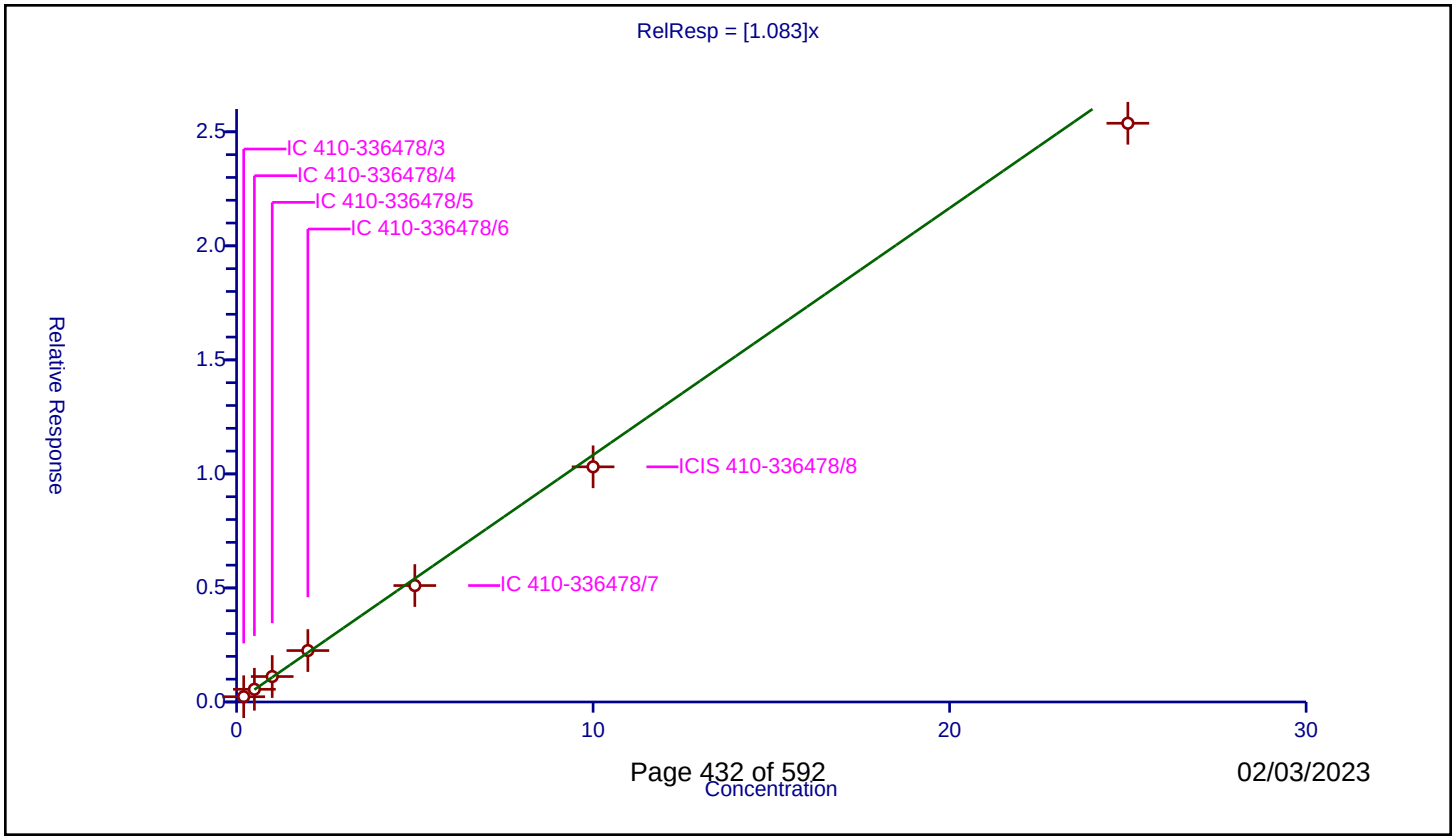
Curve Coefficients

Intercept:	0
Slope:	1.083

Error Coefficients

Standard Error:	3650000
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 410-336478/3	0.2	0.231154	10.0	2873412.0	1.155769	Y
2	IC 410-336478/4	0.5	0.556867	10.0	2950829.0	1.113734	Y
3	IC 410-336478/5	1.0	1.116028	10.0	2910805.0	1.116028	Y
4	IC 410-336478/6	2.0	2.254475	10.0	2961954.0	1.127237	Y
5	IC 410-336478/7	5.0	5.105812	10.0	3114537.0	1.021162	Y
6	ICIS 410-336478/8	10.0	10.310975	10.0	3141631.0	1.031098	Y
7	IC 410-336478/9	25.0	25.376123	10.0	3205211.0	1.015045	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

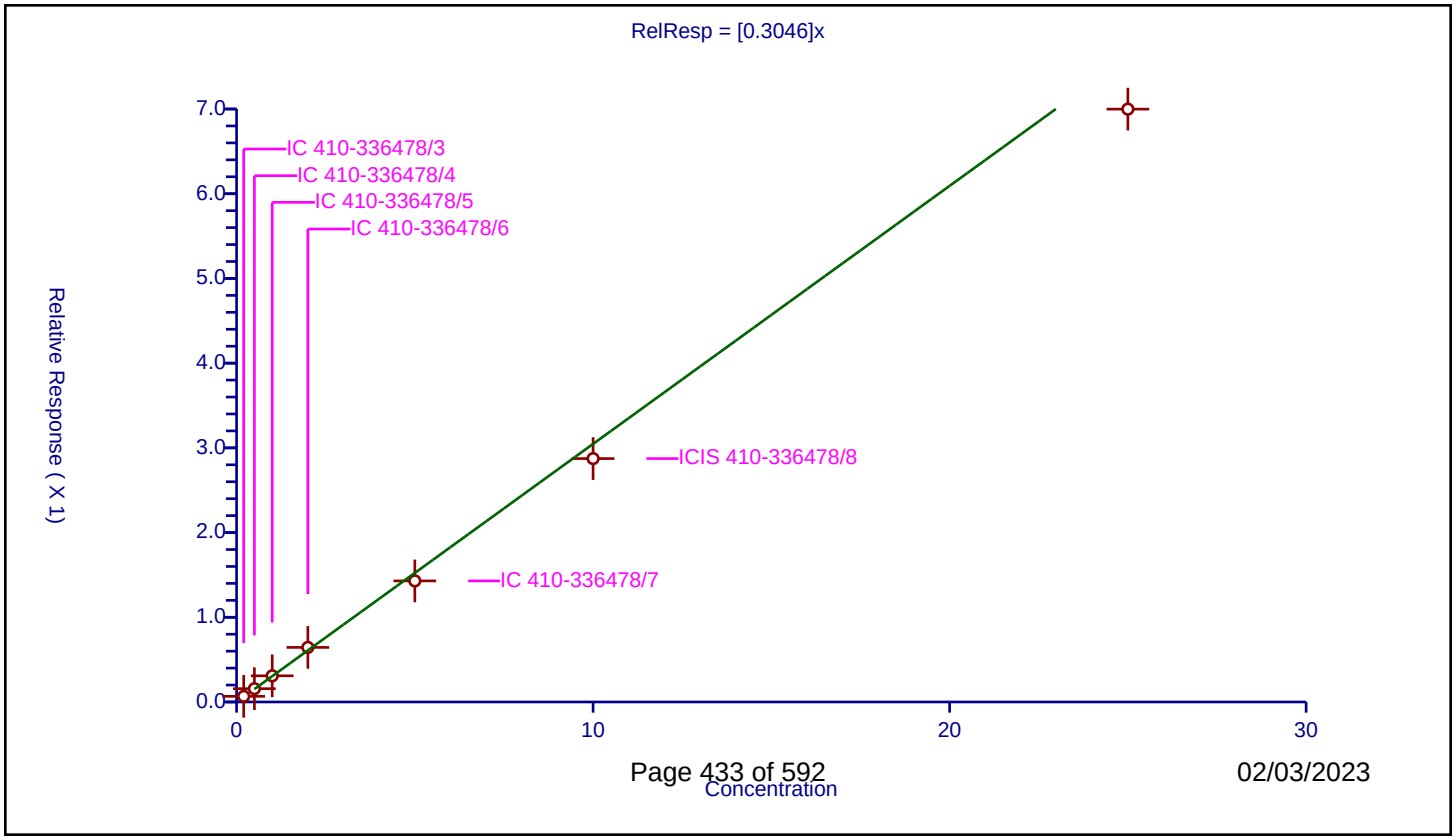
Curve Coefficients

Intercept:	0
Slope:	0.3046

Error Coefficients

Standard Error:	1010000
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 410-336478/3	0.2	0.066896	10.0	2873412.0	0.33448	Y
2	IC 410-336478/4	0.5	0.156817	10.0	2950829.0	0.313634	Y
3	IC 410-336478/5	1.0	0.309011	10.0	2910805.0	0.309011	Y
4	IC 410-336478/6	2.0	0.644277	10.0	2961954.0	0.322139	Y
5	IC 410-336478/7	5.0	1.429359	10.0	3114537.0	0.285872	Y
6	ICIS 410-336478/8	10.0	2.873262	10.0	3141631.0	0.287326	Y
7	IC 410-336478/9	25.0	6.998662	10.0	3205211.0	0.279946	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

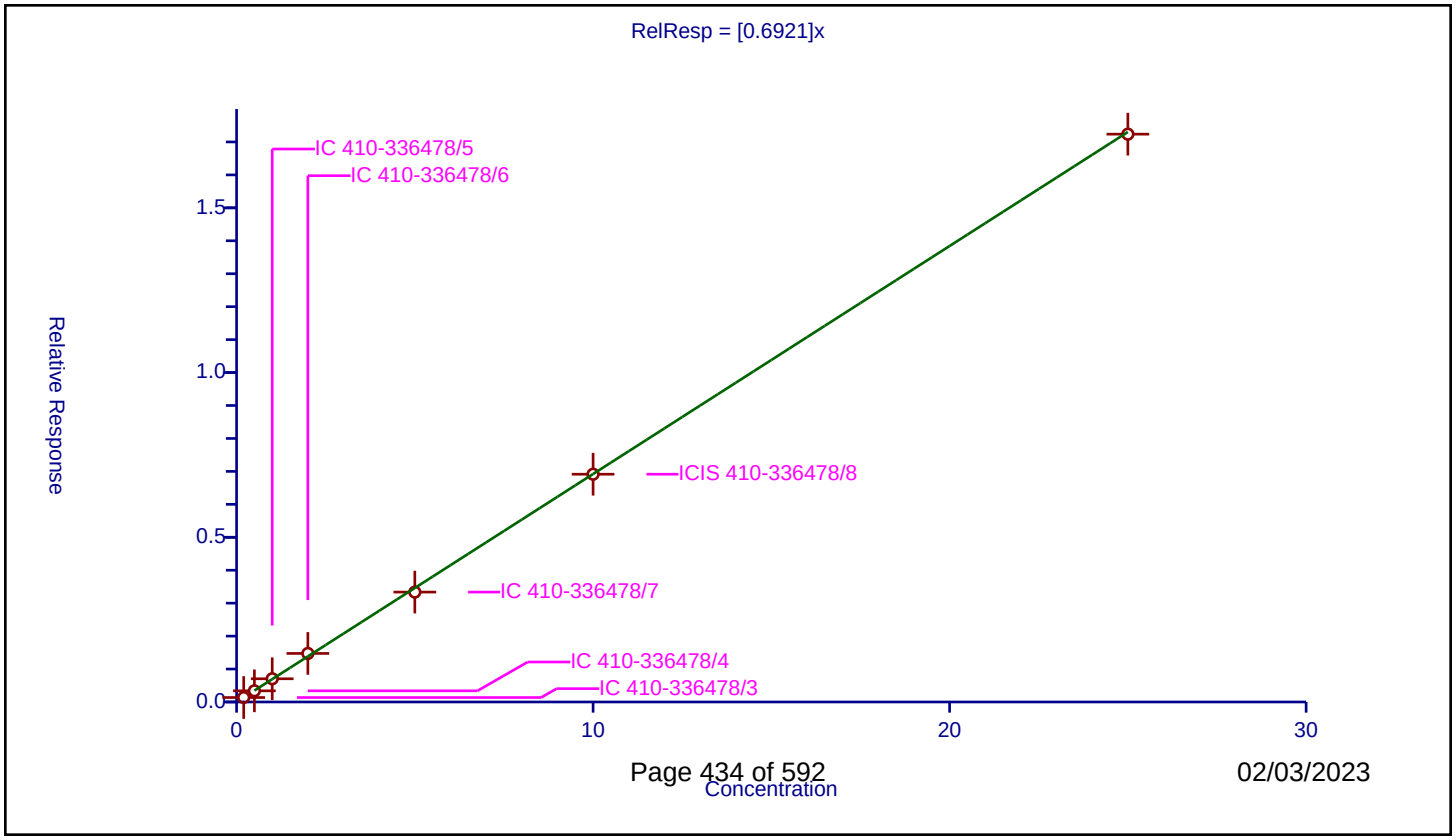
Curve Coefficients

Intercept:	0
Slope:	0.6921

Error Coefficients

Standard Error:	2470000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.135435	10.0	2873412.0	0.677174	Y
2	IC 410-336478/4	0.5	0.339159	10.0	2950829.0	0.678318	Y
3	IC 410-336478/5	1.0	0.704376	10.0	2910805.0	0.704376	Y
4	IC 410-336478/6	2.0	1.473402	10.0	2961954.0	0.736701	Y
5	IC 410-336478/7	5.0	3.336201	10.0	3114537.0	0.66724	Y
6	ICIS 410-336478/8	10.0	6.914443	10.0	3141631.0	0.691444	Y
7	IC 410-336478/9	25.0	17.236513	10.0	3205211.0	0.689461	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

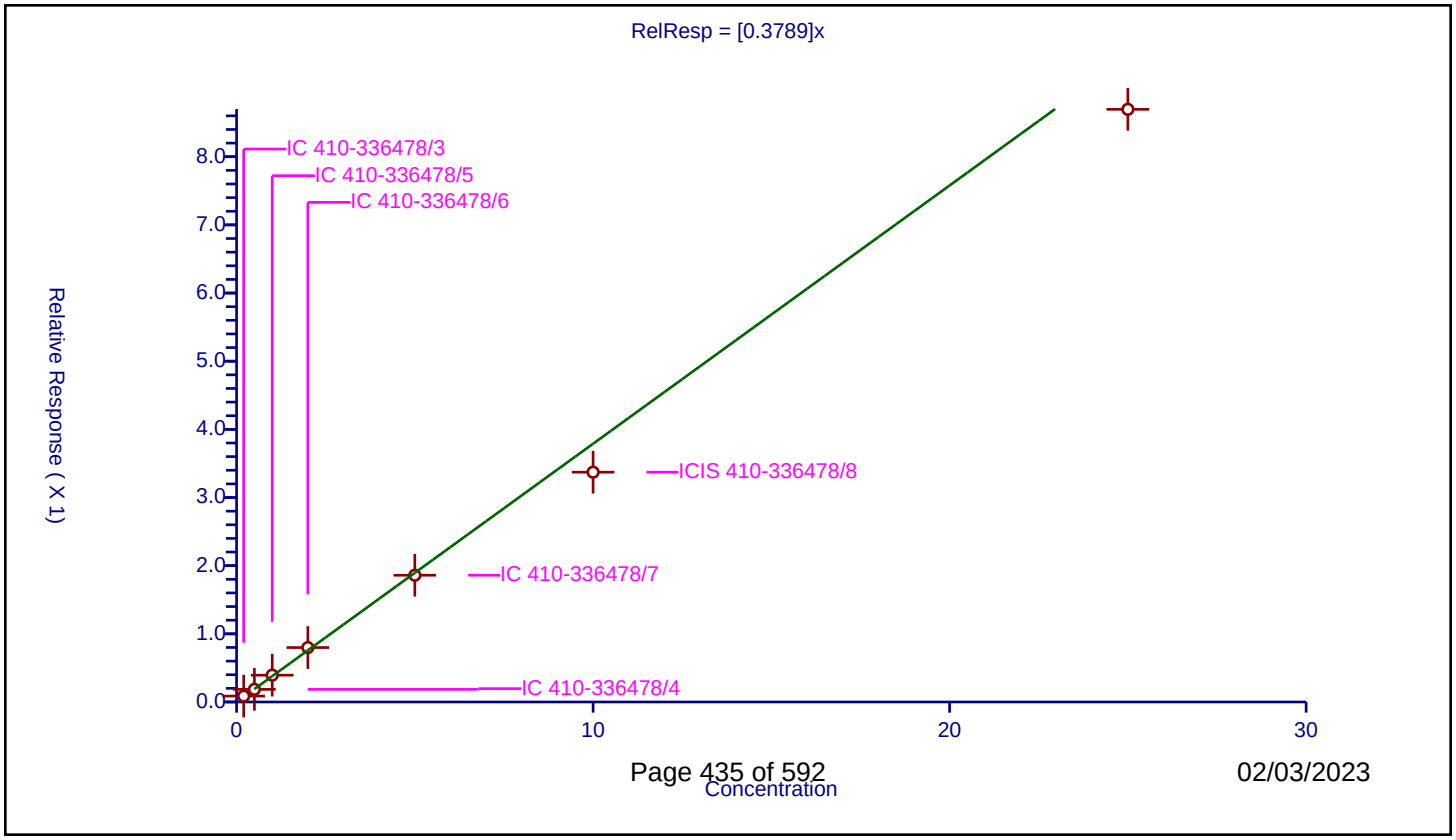
Curve Coefficients

Intercept:	0
Slope:	0.3789

Error Coefficients

Standard Error:	1240000
Relative Standard Error:	8.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.086524	10.0	2873412.0	0.432622	Y
2	IC 410-336478/4	0.5	0.185067	10.0	2950829.0	0.370133	Y
3	IC 410-336478/5	1.0	0.393321	10.0	2910805.0	0.393321	Y
4	IC 410-336478/6	2.0	0.798689	10.0	2961954.0	0.399344	Y
5	IC 410-336478/7	5.0	1.859955	10.0	3114537.0	0.371991	Y
6	ICIS 410-336478/8	10.0	3.37151	10.0	3141631.0	0.337151	Y
7	IC 410-336478/9	25.0	8.695484	10.0	3205211.0	0.347819	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

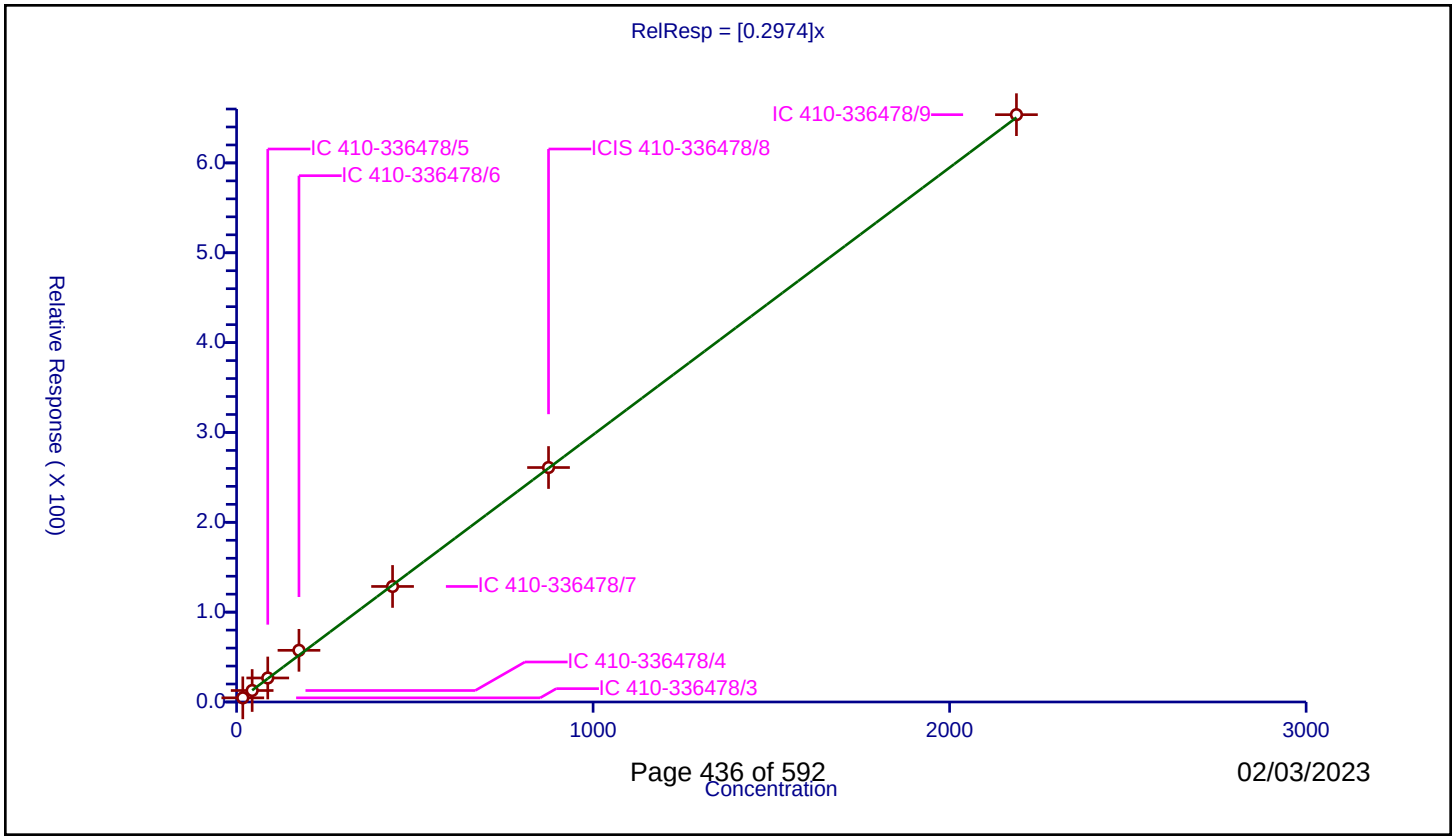
Curve Coefficients

Intercept:	0
Slope:	0.2974

Error Coefficients

Standard Error:	1080000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	17.5	4.625548	50.0	161970.0	0.264317	Y
2	IC 410-336478/4	43.75	12.790851	50.0	174574.0	0.292362	Y
3	IC 410-336478/5	87.5	26.72706	50.0	163153.0	0.305452	Y
4	IC 410-336478/6	175.0	57.520737	50.0	165283.0	0.32869	Y
5	IC 410-336478/7	437.5	128.586562	50.0	182187.0	0.293912	Y
6	ICIS 410-336478/8	875.0	260.976138	50.0	179954.0	0.298258	Y
7	IC 410-336478/9	2187.5	653.693452	50.0	186059.0	0.298831	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

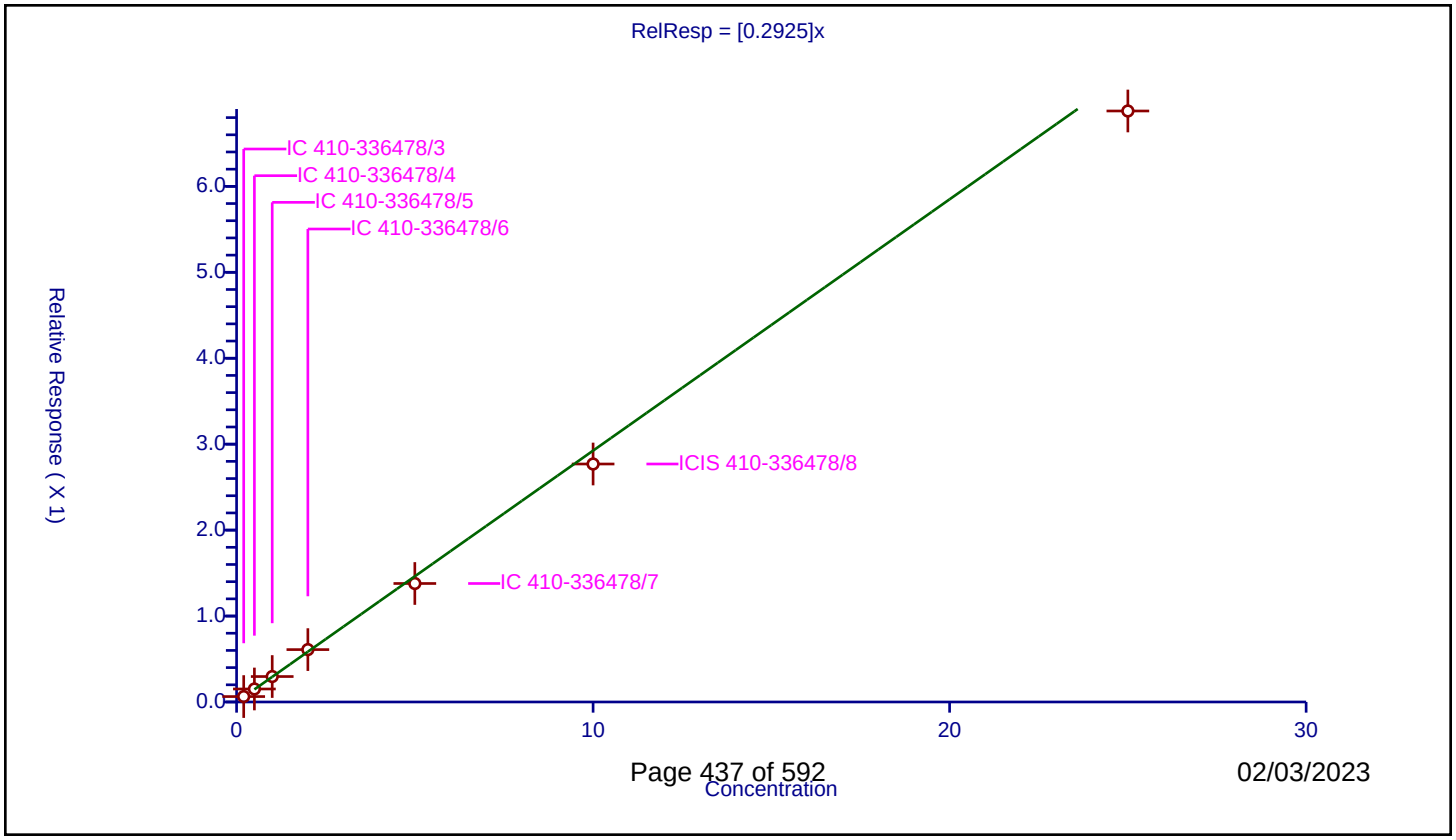
Curve Coefficients

Intercept:	0
Slope:	0.2925

Error Coefficients

Standard Error:	987000
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 410-336478/3	0.2	0.063176	10.0	2873412.0	0.315879	Y
2	IC 410-336478/4	0.5	0.151252	10.0	2950829.0	0.302505	Y
3	IC 410-336478/5	1.0	0.296313	10.0	2910805.0	0.296313	Y
4	IC 410-336478/6	2.0	0.609537	10.0	2961954.0	0.304768	Y
5	IC 410-336478/7	5.0	1.378728	10.0	3114537.0	0.275746	Y
6	ICIS 410-336478/8	10.0	2.769421	10.0	3141631.0	0.276942	Y
7	IC 410-336478/9	25.0	6.876954	10.0	3205211.0	0.275078	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

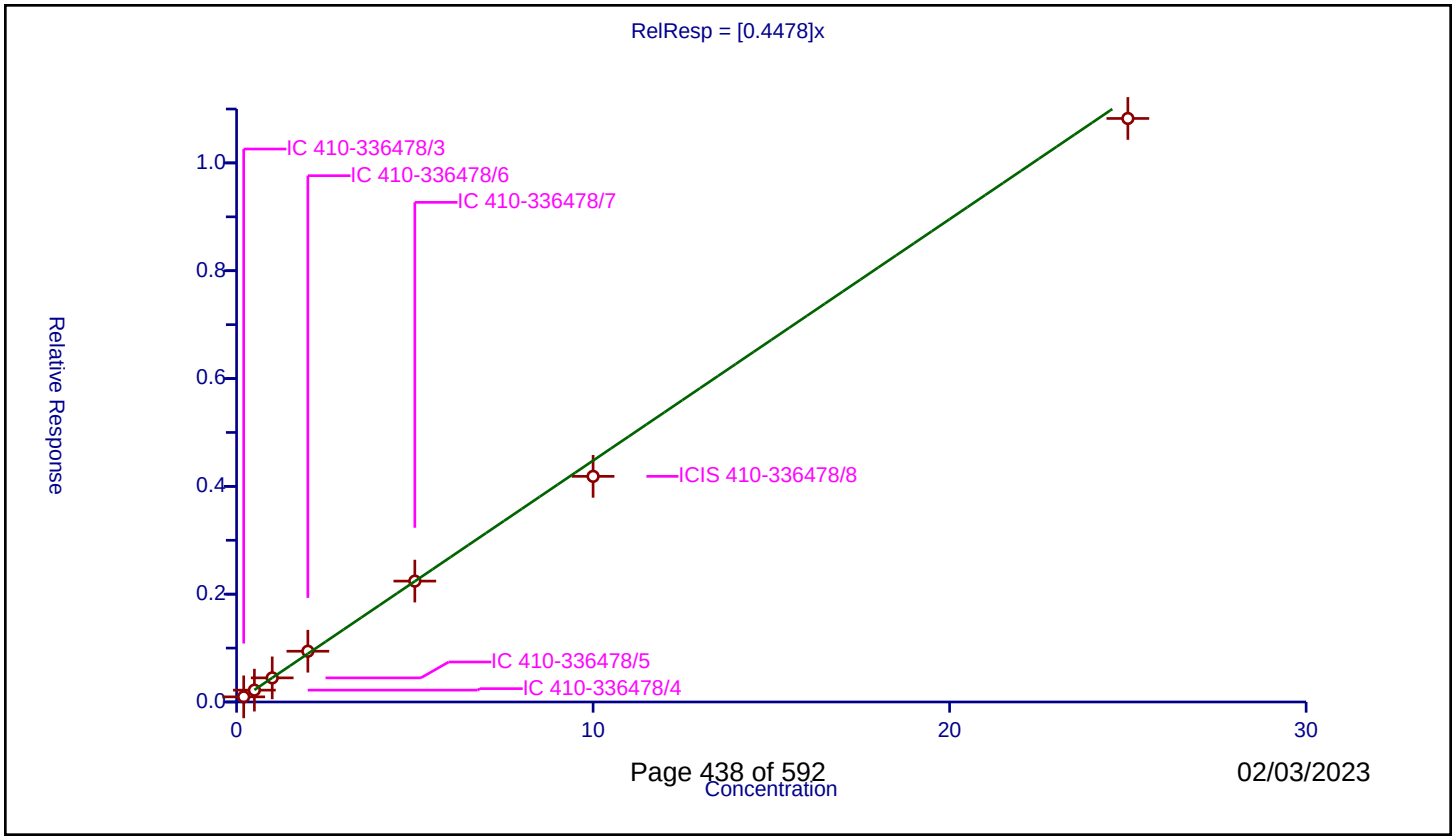
Curve Coefficients

Intercept:	0
Slope:	0.4478

Error Coefficients

Standard Error:	1550000
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 410-336478/3	0.2	0.095357	10.0	2873412.0	0.476785	Y
2	IC 410-336478/4	0.5	0.219908	10.0	2950829.0	0.439815	Y
3	IC 410-336478/5	1.0	0.447261	10.0	2910805.0	0.447261	Y
4	IC 410-336478/6	2.0	0.941514	10.0	2961954.0	0.470757	Y
5	IC 410-336478/7	5.0	2.242436	10.0	3114537.0	0.448487	Y
6	ICIS 410-336478/8	10.0	4.185641	10.0	3141631.0	0.418564	Y
7	IC 410-336478/9	25.0	10.824719	10.0	3205211.0	0.432989	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

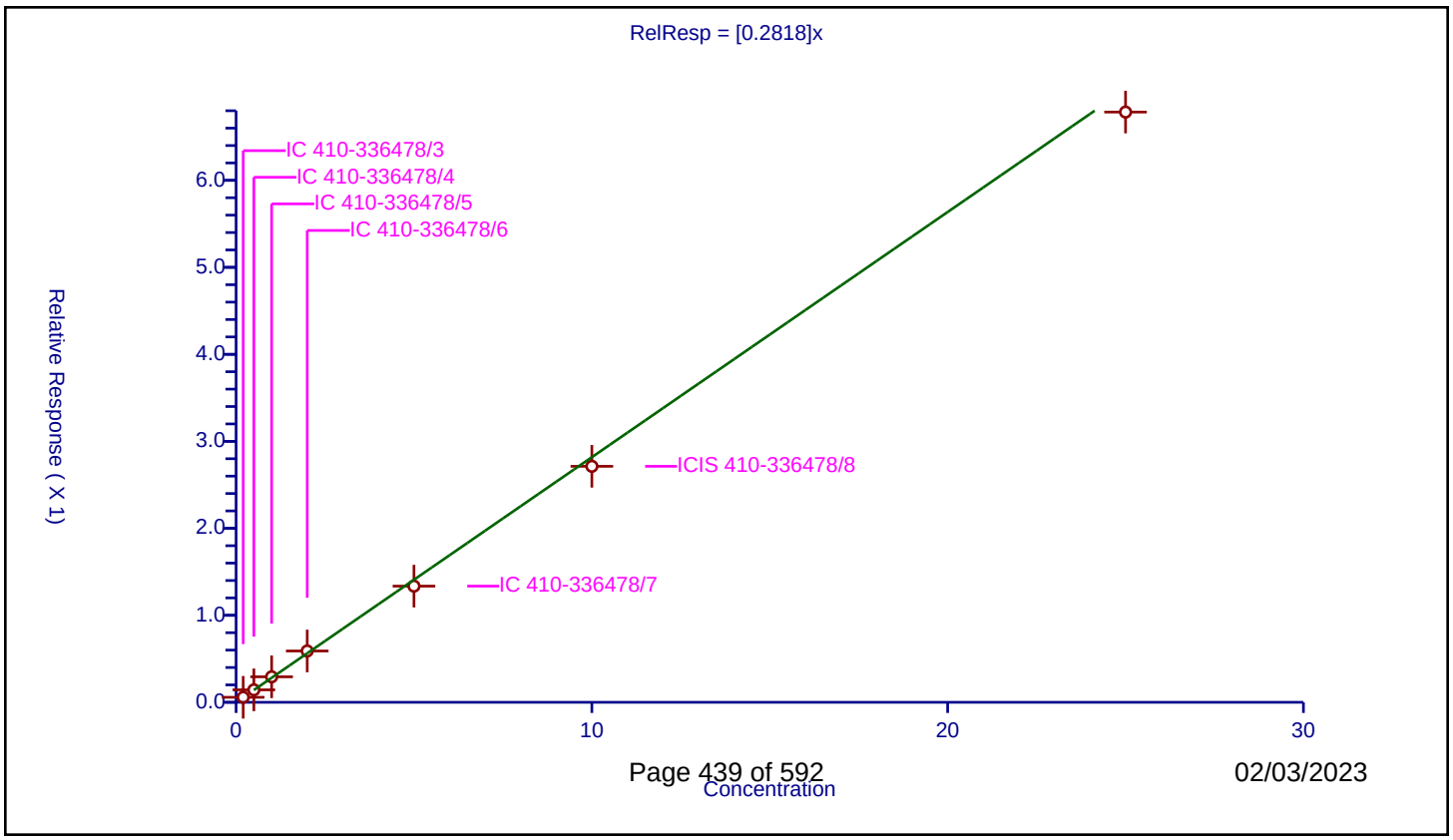
Curve Coefficients

Intercept:	0
Slope:	0.2818

Error Coefficients

Standard Error:	972000
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 410-336478/3	0.2	0.057611	10.0	2873412.0	0.288055	Y
2	IC 410-336478/4	0.5	0.143139	10.0	2950829.0	0.286279	Y
3	IC 410-336478/5	1.0	0.293259	10.0	2910805.0	0.293259	Y
4	IC 410-336478/6	2.0	0.590151	10.0	2961954.0	0.295075	Y
5	IC 410-336478/7	5.0	1.335701	10.0	3114537.0	0.26714	Y
6	ICIS 410-336478/8	10.0	2.713056	10.0	3141631.0	0.271306	Y
7	IC 410-336478/9	25.0	6.784973	10.0	3205211.0	0.271399	Y



Calibration / 1,4-Dioxane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

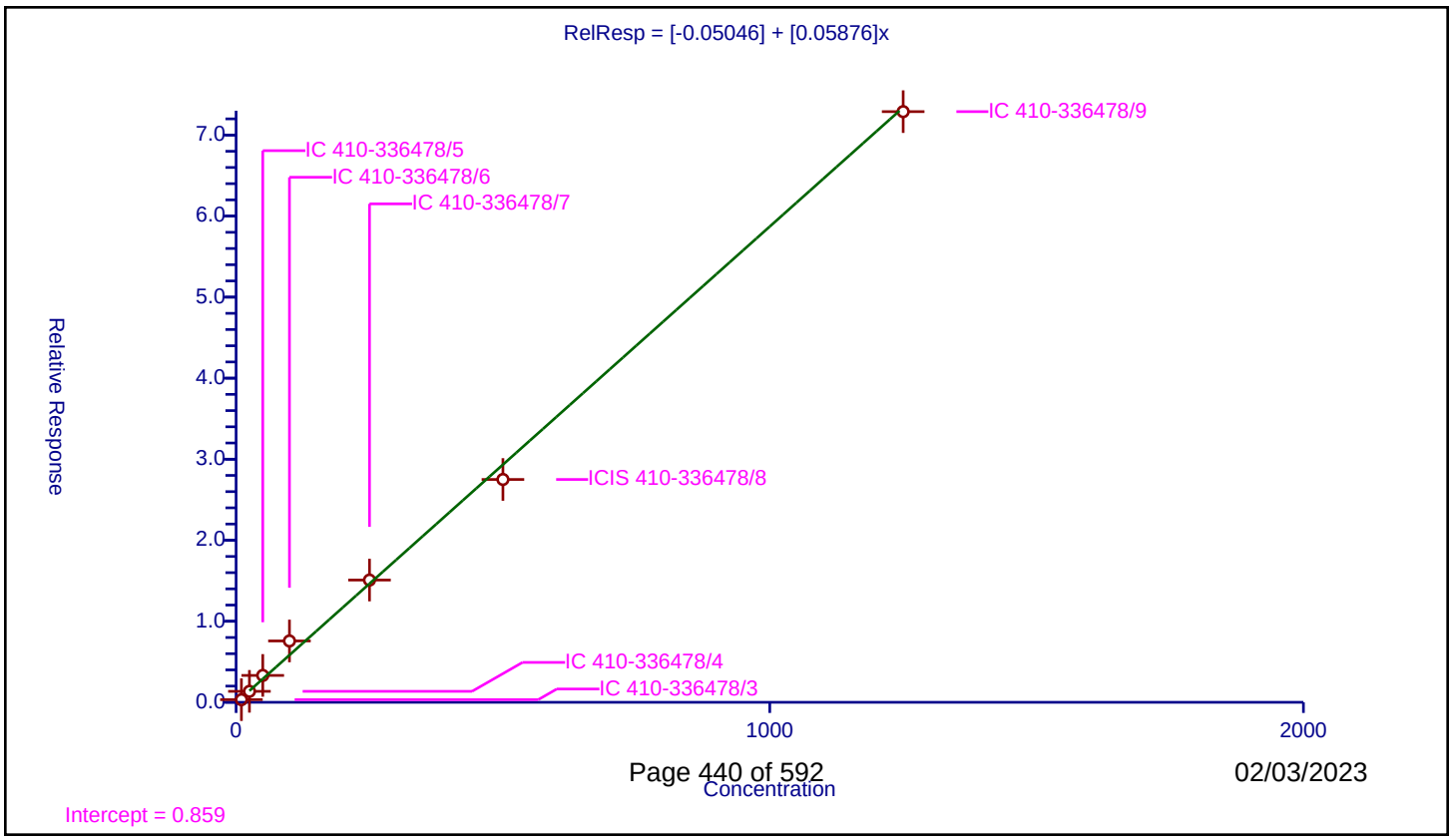
Curve Coefficients

Intercept:	-0.05046
Slope:	0.05876

Error Coefficients

Standard Error:	132000
Relative Standard Error:	22.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	10.0	0.325986	50.0	161970.0	0.032599	Y
2	IC 410-336478/4	25.0	1.352721	50.0	174574.0	0.054109	Y
3	IC 410-336478/5	50.0	3.316825	50.0	163153.0	0.066337	Y
4	IC 410-336478/6	100.0	7.571559	50.0	165283.0	0.075716	Y
5	IC 410-336478/7	250.0	15.085873	50.0	182187.0	0.060343	Y
6	ICIS 410-336478/8	500.0	27.498138	50.0	179954.0	0.054996	Y
7	IC 410-336478/9	1250.0	72.89032	50.0	186059.0	0.058312	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

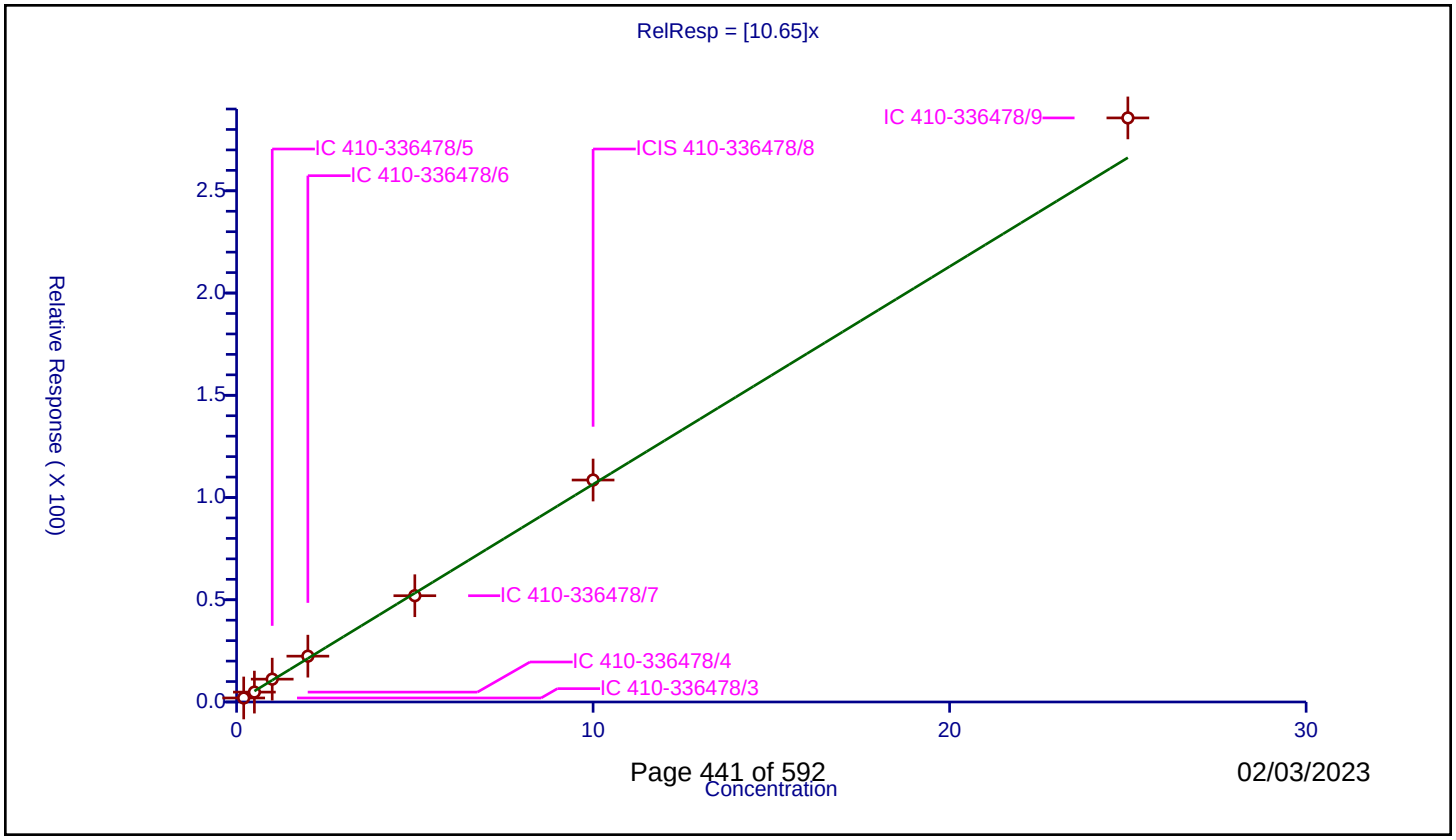
Curve Coefficients

Intercept:	0
Slope:	10.65

Error Coefficients

Standard Error:	470000
Relative Standard Error:	6.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	1.963635	50.0	161970.0	9.818176	Y
2	IC 410-336478/4	0.5	4.828325	50.0	174574.0	9.65665	Y
3	IC 410-336478/5	1.0	11.176013	50.0	163153.0	11.176013	Y
4	IC 410-336478/6	2.0	22.414586	50.0	165283.0	11.207293	Y
5	IC 410-336478/7	5.0	51.979285	50.0	182187.0	10.395857	Y
6	ICIS 410-336478/8	10.0	108.558298	50.0	179954.0	10.85583	Y
7	IC 410-336478/9	25.0	285.647295	50.0	186059.0	11.425892	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

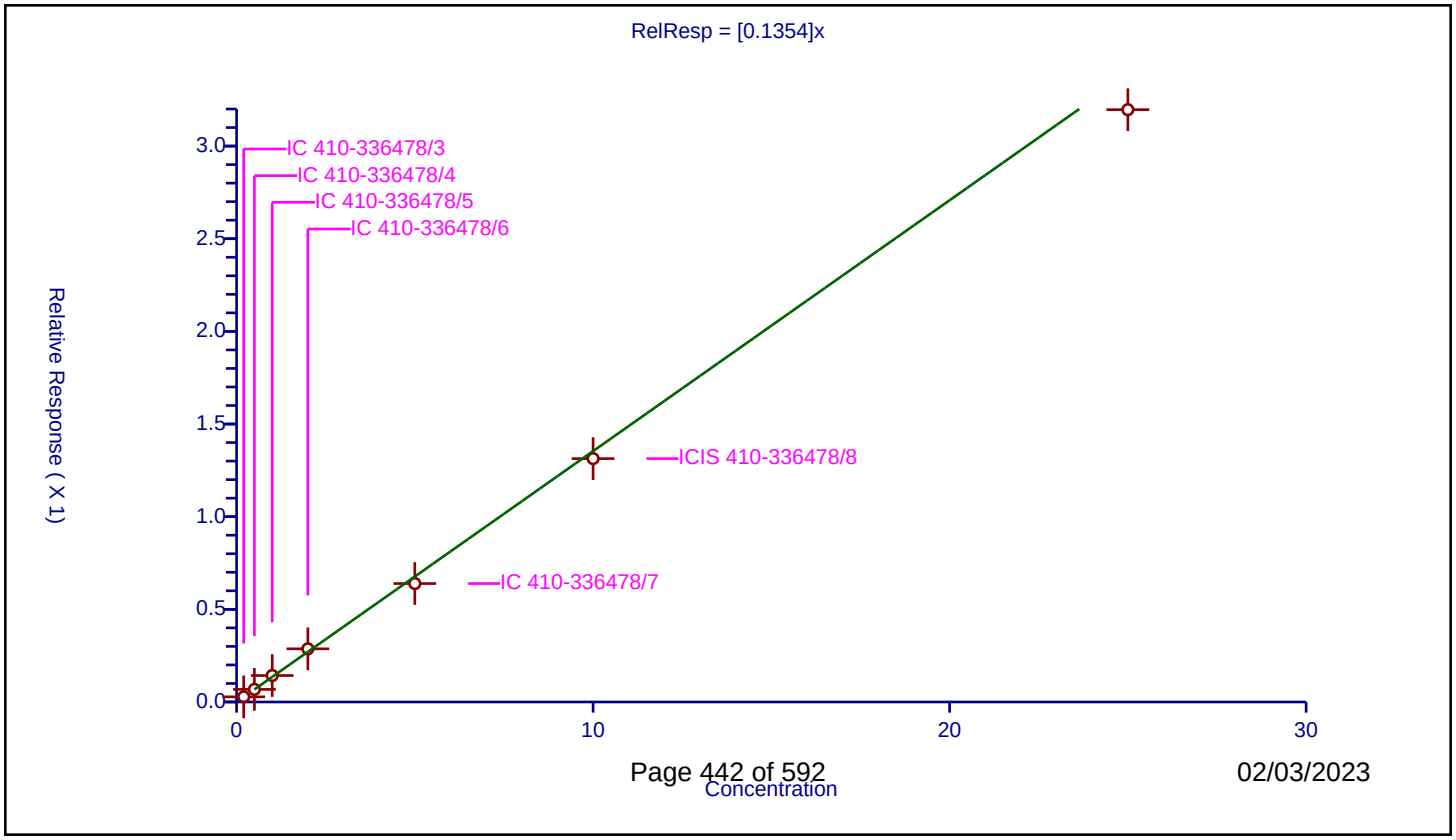
Curve Coefficients

Intercept:	0
Slope:	0.1354

Error Coefficients

Standard Error:	460000
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 410-336478/3	0.2	0.027664	10.0	2873412.0	0.13832	Y
2	IC 410-336478/4	0.5	0.068011	10.0	2950829.0	0.136023	Y
3	IC 410-336478/5	1.0	0.142826	10.0	2910805.0	0.142826	Y
4	IC 410-336478/6	2.0	0.286922	10.0	2961954.0	0.143461	Y
5	IC 410-336478/7	5.0	0.639138	10.0	3114537.0	0.127828	Y
6	ICIS 410-336478/8	10.0	1.313407	10.0	3141631.0	0.131341	Y
7	IC 410-336478/9	25.0	3.196442	10.0	3205211.0	0.127858	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

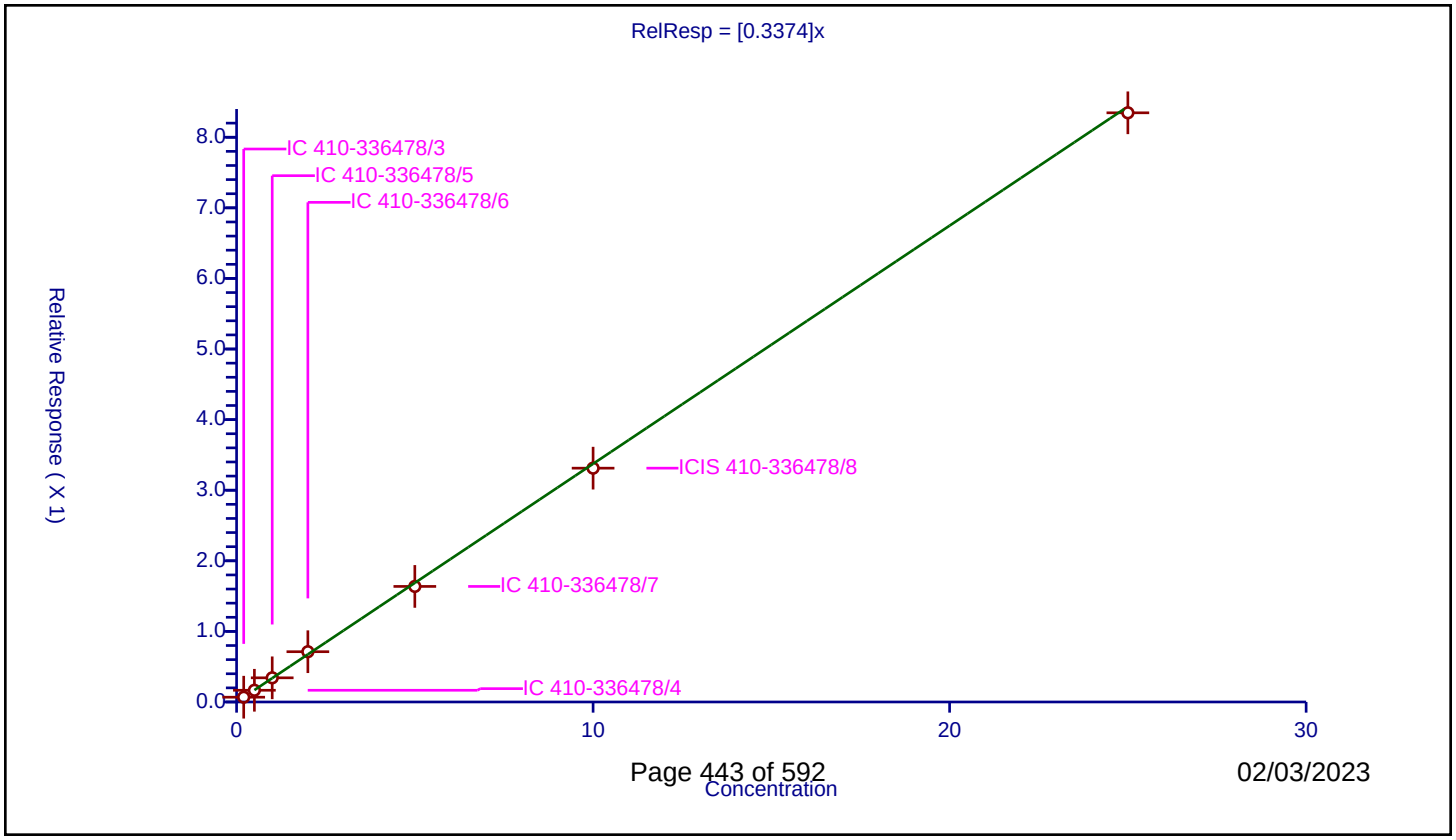
Curve Coefficients

Intercept:	0
Slope:	0.3374

Error Coefficients

Standard Error:	1190000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.067693	10.0	2873412.0	0.338465	Y
2	IC 410-336478/4	0.5	0.166133	10.0	2950829.0	0.332266	Y
3	IC 410-336478/5	1.0	0.34239	10.0	2910805.0	0.34239	Y
4	IC 410-336478/6	2.0	0.712124	10.0	2961954.0	0.356062	Y
5	IC 410-336478/7	5.0	1.637165	10.0	3114537.0	0.327433	Y
6	ICIS 410-336478/8	10.0	3.31249	10.0	3141631.0	0.331249	Y
7	IC 410-336478/9	25.0	8.346436	10.0	3205211.0	0.333857	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

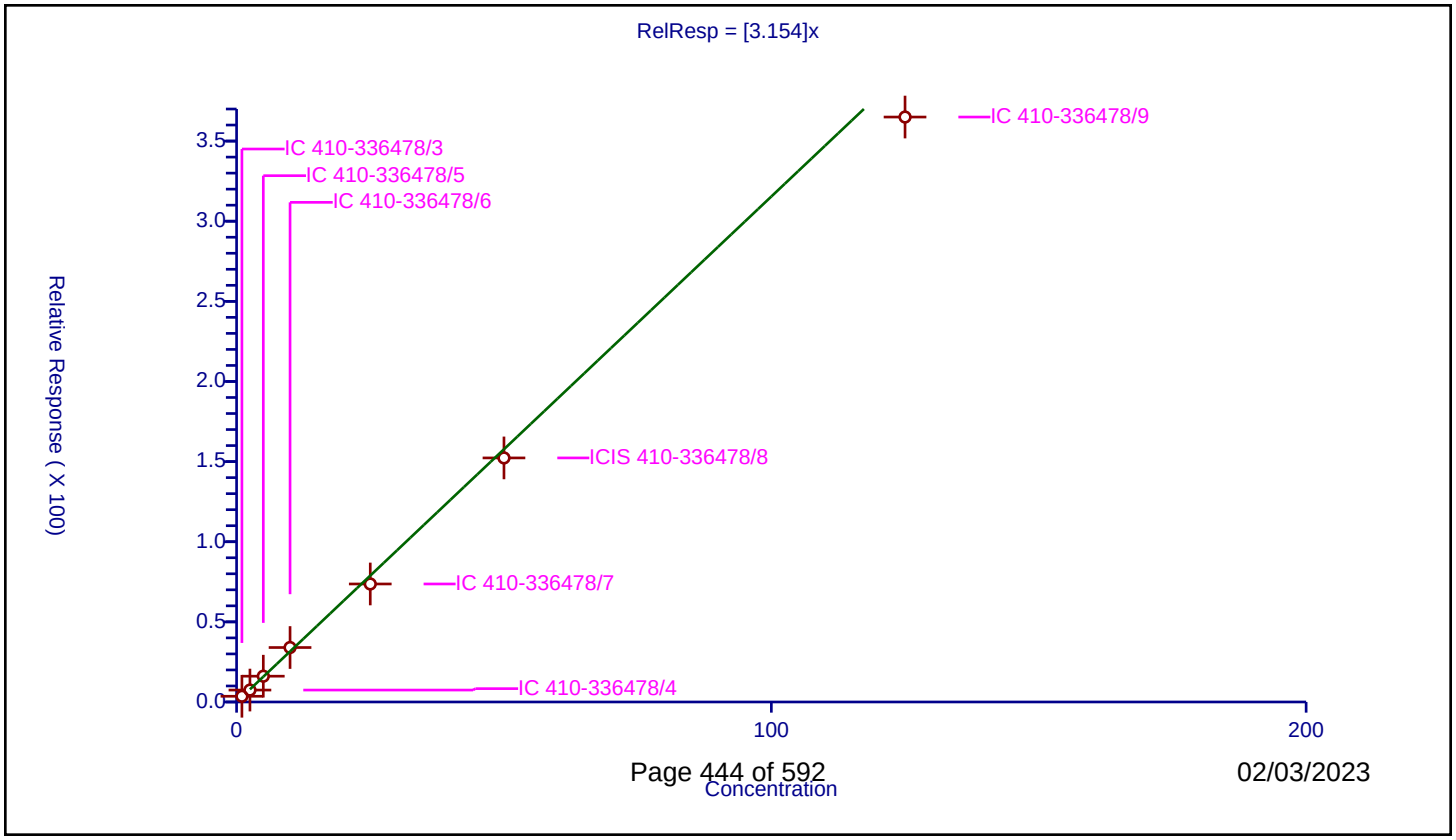
Curve Coefficients

Intercept:	0
Slope:	3.154

Error Coefficients

Standard Error:	610000
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 410-336478/3	1.0	3.570723	50.0	161970.0	3.570723	Y
2	IC 410-336478/4	2.5	7.44584	50.0	174574.0	2.978336	Y
3	IC 410-336478/5	5.0	16.099918	50.0	163153.0	3.219984	Y
4	IC 410-336478/6	10.0	33.985951	50.0	165283.0	3.398595	Y
5	IC 410-336478/7	25.0	73.634782	50.0	182187.0	2.945391	Y
6	ICIS 410-336478/8	50.0	152.287807	50.0	179954.0	3.045756	Y
7	IC 410-336478/9	125.0	364.997662	50.0	186059.0	2.919981	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

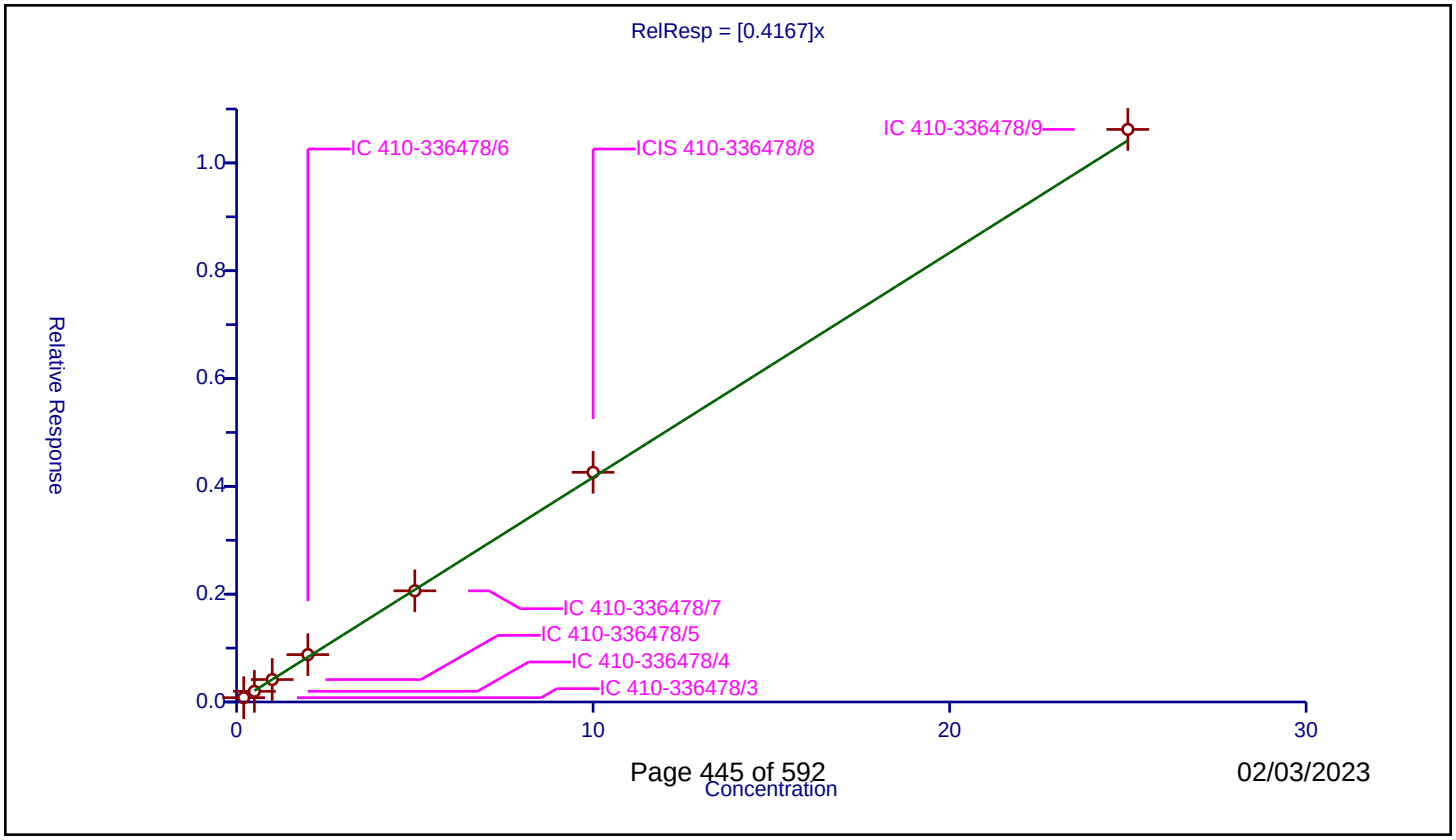
Curve Coefficients

Intercept:	0
Slope:	0.4167

Error Coefficients

Standard Error:	1520000
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 410-336478/3	0.2	0.08025	10.0	2873412.0	0.401248	Y
2	IC 410-336478/4	0.5	0.198131	10.0	2950829.0	0.396262	Y
3	IC 410-336478/5	1.0	0.416259	10.0	2910805.0	0.416259	Y
4	IC 410-336478/6	2.0	0.87891	10.0	2961954.0	0.439455	Y
5	IC 410-336478/7	5.0	2.061876	10.0	3114537.0	0.412375	Y
6	ICIS 410-336478/8	10.0	4.261041	10.0	3141631.0	0.426104	Y
7	IC 410-336478/9	25.0	10.621422	10.0	3205211.0	0.424857	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

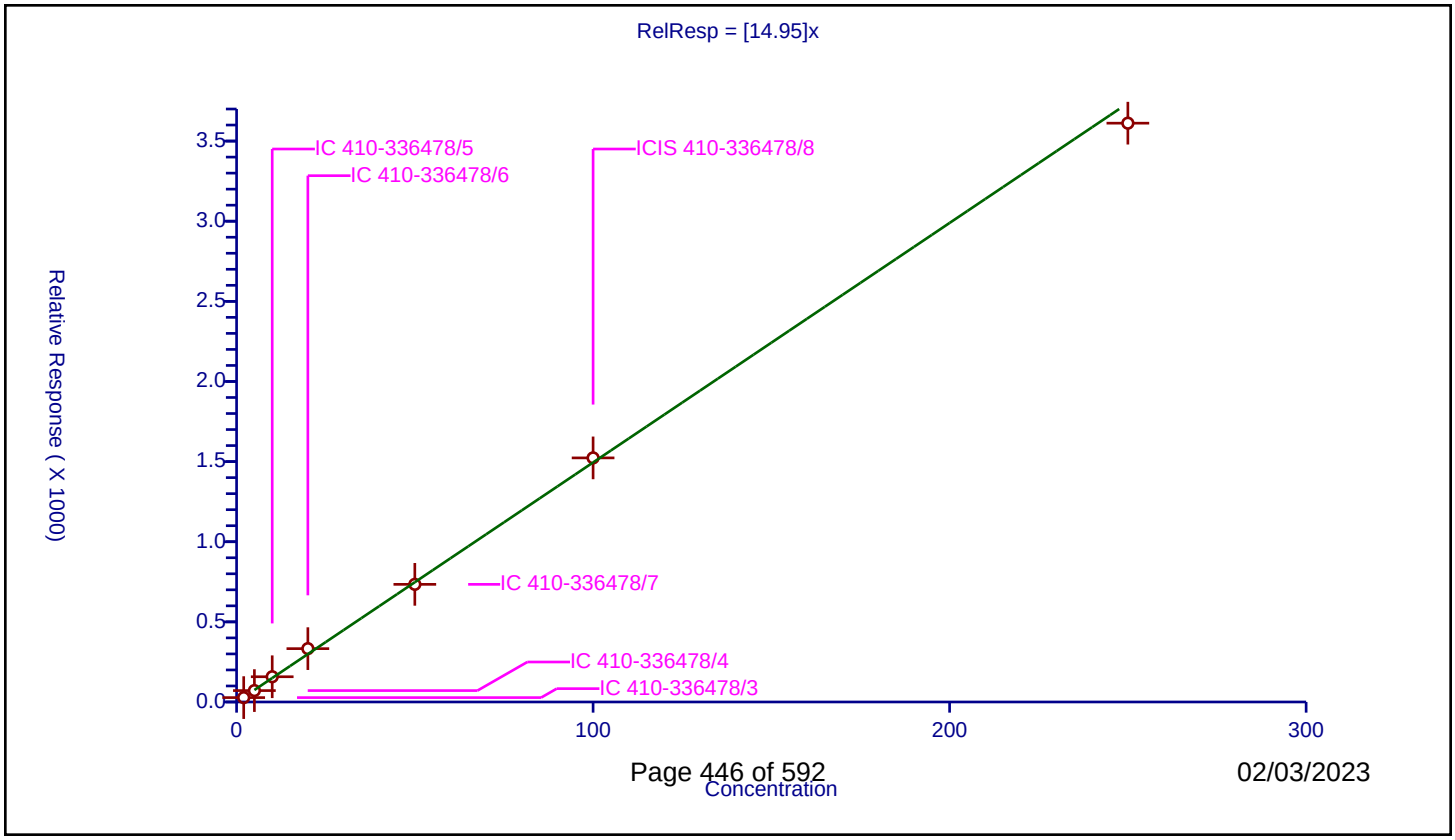
Curve Coefficients

Intercept:	0
Slope:	14.95

Error Coefficients

Standard Error:	6040000
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 410-336478/3	2.0	27.309996	50.0	161970.0	13.654998	Y
2	IC 410-336478/4	5.0	71.054109	50.0	174574.0	14.210822	Y
3	IC 410-336478/5	10.0	157.544146	50.0	163153.0	15.754415	Y
4	IC 410-336478/6	20.0	332.793149	50.0	165283.0	16.639657	Y
5	IC 410-336478/7	50.0	734.043593	50.0	182187.0	14.680872	Y
6	ICIS 410-336478/8	100.0	1523.068951	50.0	179954.0	15.23069	Y
7	IC 410-336478/9	250.0	3611.692528	50.0	186059.0	14.44677	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

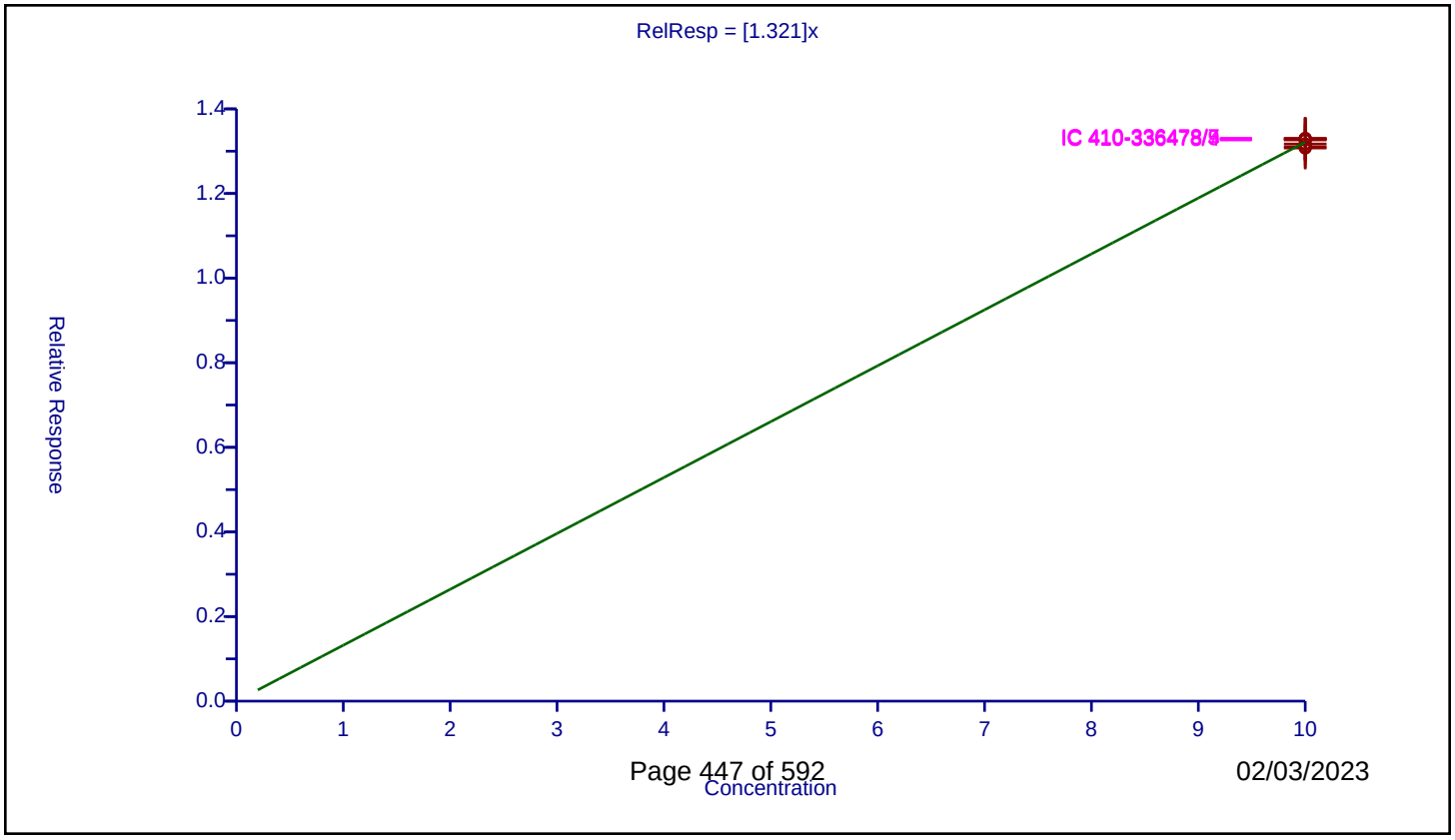
Curve Coefficients

Intercept:	0
Slope:	1.321

Error Coefficients

Standard Error:	3270000
Relative Standard Error:	0.7
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	10.0	13.07538	10.0	2185629.0	1.307538	Y
2	IC 410-336478/4	10.0	13.26574	10.0	2230288.0	1.326574	Y
3	IC 410-336478/5	10.0	13.288651	10.0	2203563.0	1.328865	Y
4	IC 410-336478/6	10.0	13.103343	10.0	2265934.0	1.310334	Y
5	IC 410-336478/7	10.0	13.303436	10.0	2349342.0	1.330344	Y
6	ICIS 410-336478/8	10.0	13.170895	10.0	2381599.0	1.317089	Y
7	IC 410-336478/9	10.0	13.289934	10.0	2429581.0	1.328993	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

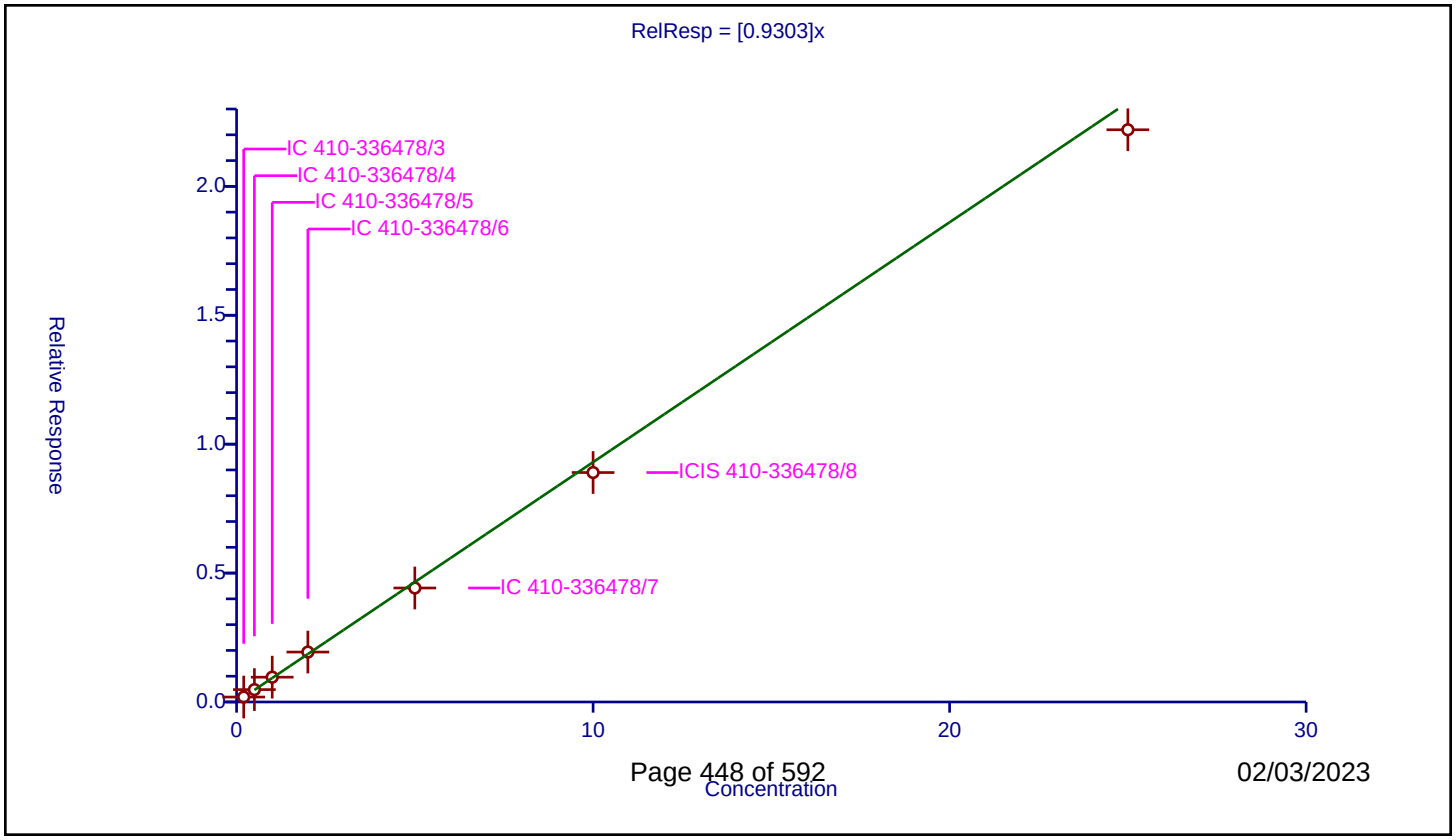
Curve Coefficients

Intercept:	0
Slope:	0.9303

Error Coefficients

Standard Error:	2410000
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 410-336478/3	0.2	0.191689	10.0	2185629.0	0.958443	Y
2	IC 410-336478/4	0.5	0.480745	10.0	2230288.0	0.96149	Y
3	IC 410-336478/5	1.0	0.961969	10.0	2203563.0	0.961969	Y
4	IC 410-336478/6	2.0	1.93668	10.0	2265934.0	0.96834	Y
5	IC 410-336478/7	5.0	4.42163	10.0	2349342.0	0.884326	Y
6	ICIS 410-336478/8	10.0	8.899605	10.0	2381599.0	0.88996	Y
7	IC 410-336478/9	25.0	22.195502	10.0	2429581.0	0.88782	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

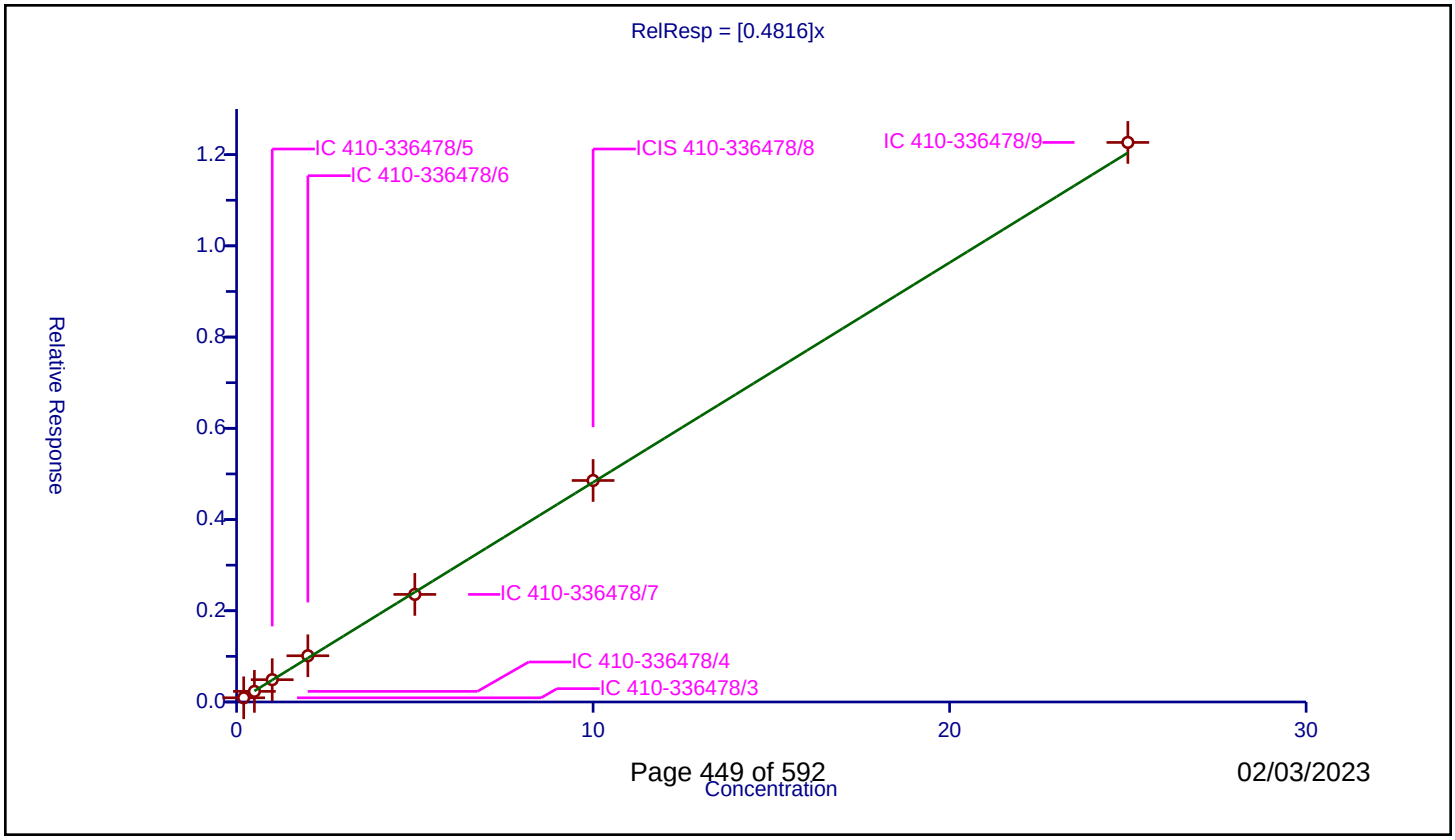
Curve Coefficients

Intercept:	0
Slope:	0.4816

Error Coefficients

Standard Error:	1330000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.092303	10.0	2185629.0	0.461515	Y
2	IC 410-336478/4	0.5	0.233006	10.0	2230288.0	0.466012	Y
3	IC 410-336478/5	1.0	0.489294	10.0	2203563.0	0.489294	Y
4	IC 410-336478/6	2.0	1.013273	10.0	2265934.0	0.506637	Y
5	IC 410-336478/7	5.0	2.358626	10.0	2349342.0	0.471725	Y
6	ICIS 410-336478/8	10.0	4.85612	10.0	2381599.0	0.485612	Y
7	IC 410-336478/9	25.0	12.267436	10.0	2429581.0	0.490697	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

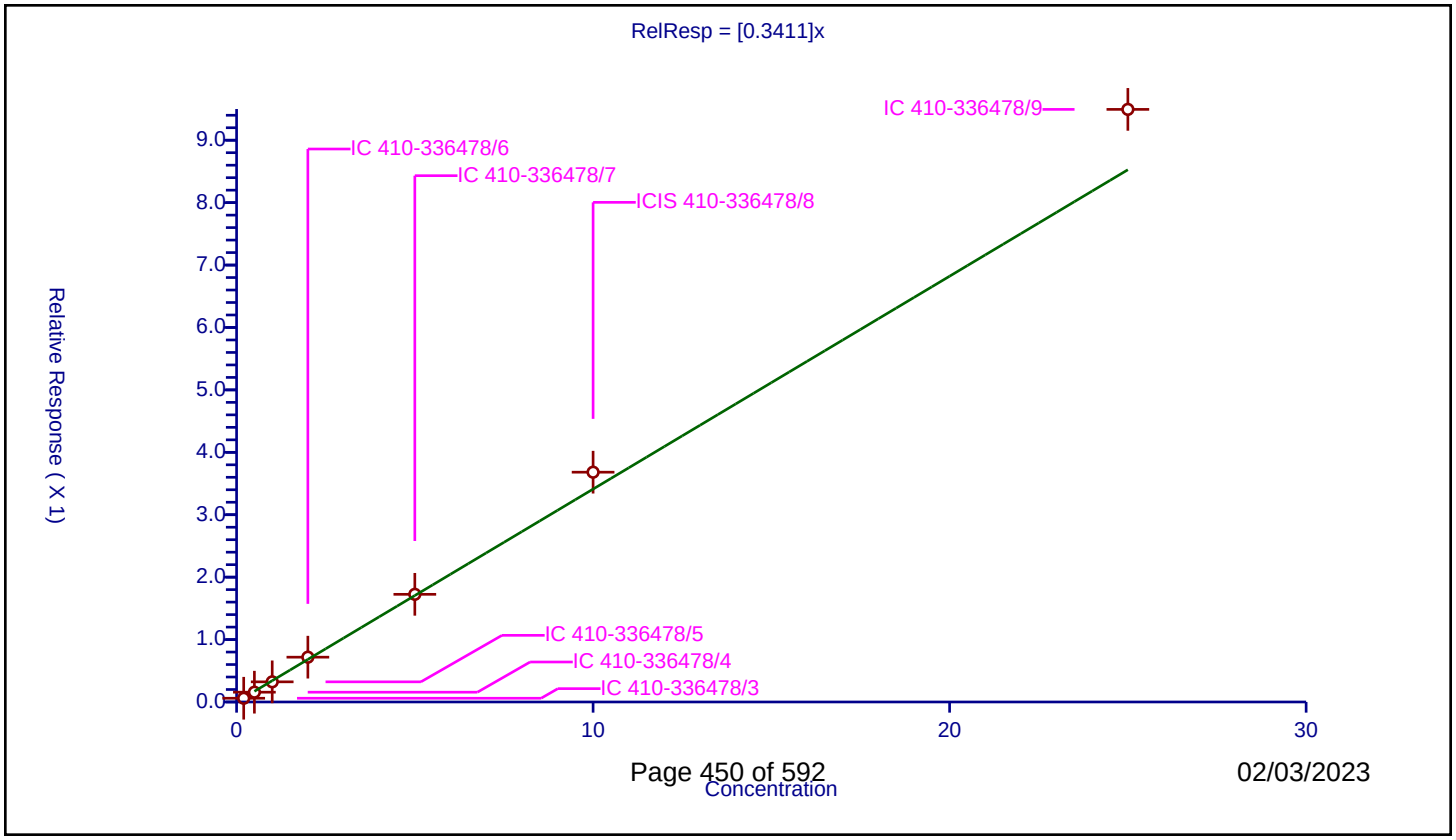
Curve Coefficients

Intercept:	0
Slope:	0.3411

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	8.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.059813	10.0	2185629.0	0.299067	Y
2	IC 410-336478/4	0.5	0.156877	10.0	2230288.0	0.313753	Y
3	IC 410-336478/5	1.0	0.322823	10.0	2203563.0	0.322823	Y
4	IC 410-336478/6	2.0	0.717911	10.0	2265934.0	0.358956	Y
5	IC 410-336478/7	5.0	1.72496	10.0	2349342.0	0.344992	Y
6	ICIS 410-336478/8	10.0	3.681543	10.0	2381599.0	0.368154	Y
7	IC 410-336478/9	25.0	9.494012	10.0	2429581.0	0.37976	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

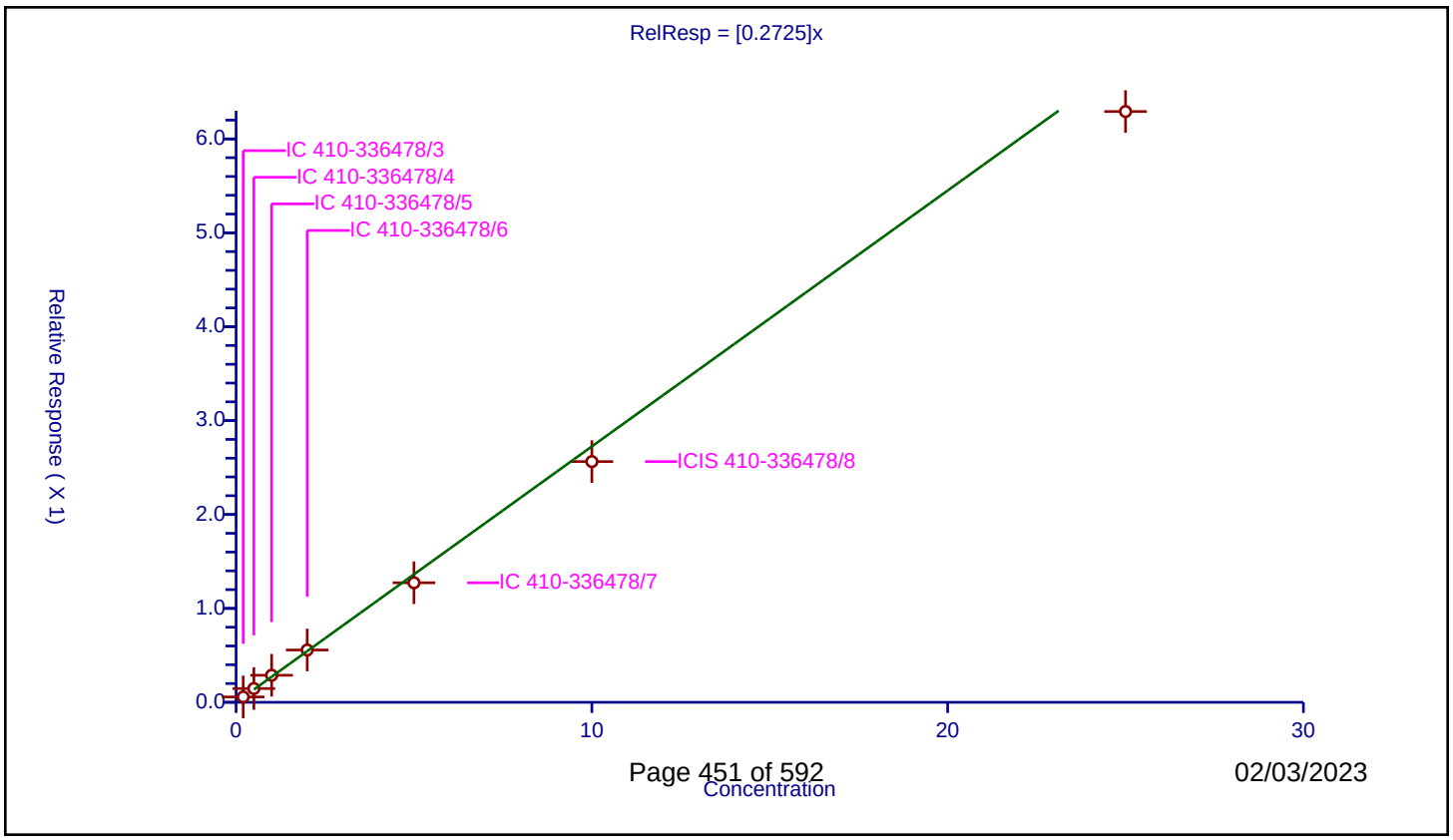
Curve Coefficients

Intercept:	0
Slope:	0.2725

Error Coefficients

Standard Error:	686000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.057	10.0	2185629.0	0.284998	Y
2	IC 410-336478/4	0.5	0.146658	10.0	2230288.0	0.293316	Y
3	IC 410-336478/5	1.0	0.288083	10.0	2203563.0	0.288083	Y
4	IC 410-336478/6	2.0	0.557015	10.0	2265934.0	0.278508	Y
5	IC 410-336478/7	5.0	1.273042	10.0	2349342.0	0.254608	Y
6	ICIS 410-336478/8	10.0	2.563647	10.0	2381599.0	0.256365	Y
7	IC 410-336478/9	25.0	6.291859	10.0	2429581.0	0.251674	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

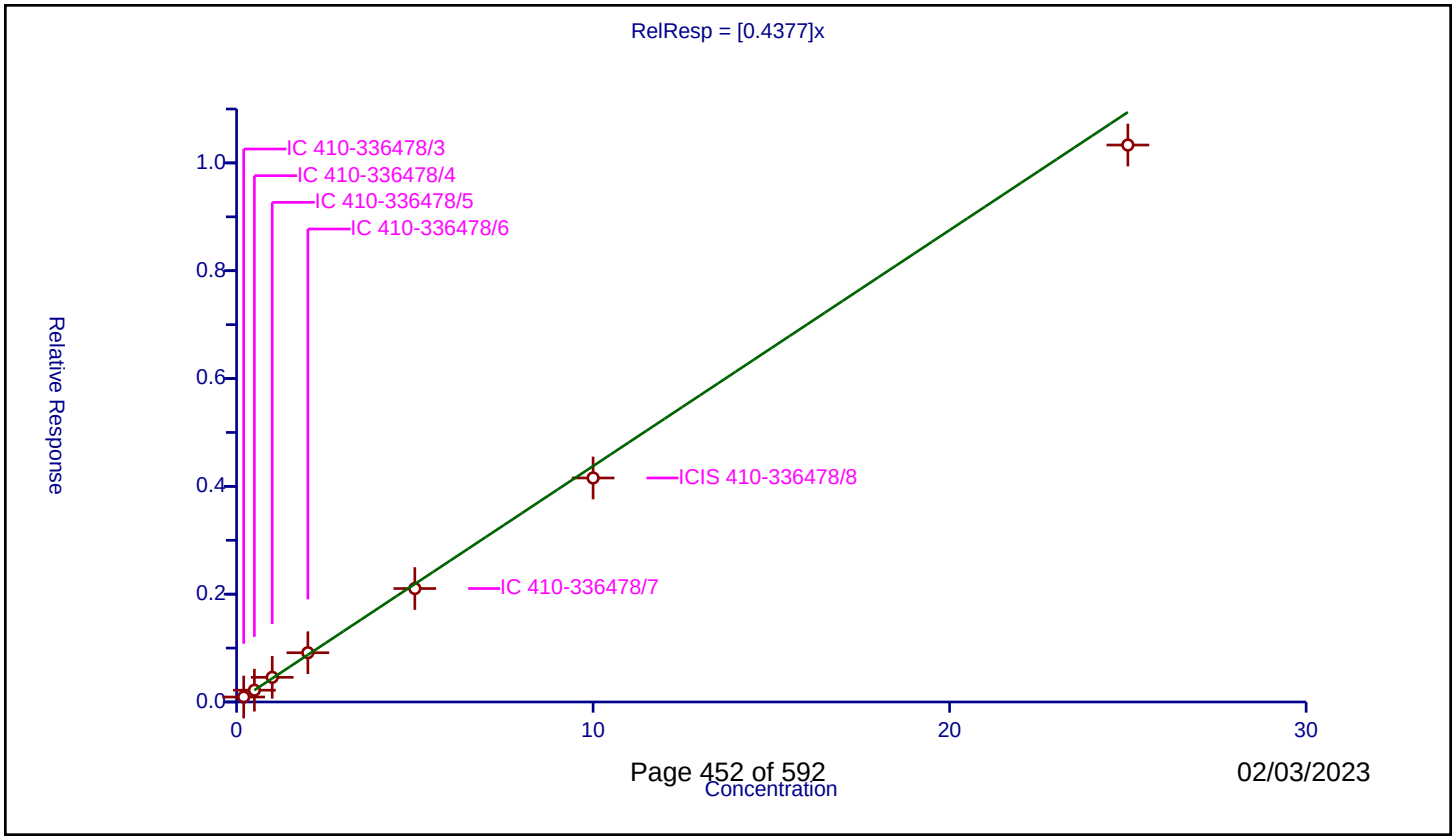
Curve Coefficients

Intercept:	0
Slope:	0.4377

Error Coefficients

Standard Error:	1120000
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 410-336478/3	0.2	0.092381	10.0	2185629.0	0.461904	Y
2	IC 410-336478/4	0.5	0.218842	10.0	2230288.0	0.437683	Y
3	IC 410-336478/5	1.0	0.457169	10.0	2203563.0	0.457169	Y
4	IC 410-336478/6	2.0	0.914104	10.0	2265934.0	0.457052	Y
5	IC 410-336478/7	5.0	2.104862	10.0	2349342.0	0.420972	Y
6	ICIS 410-336478/8	10.0	4.155704	10.0	2381599.0	0.41557	Y
7	IC 410-336478/9	25.0	10.332296	10.0	2429581.0	0.413292	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

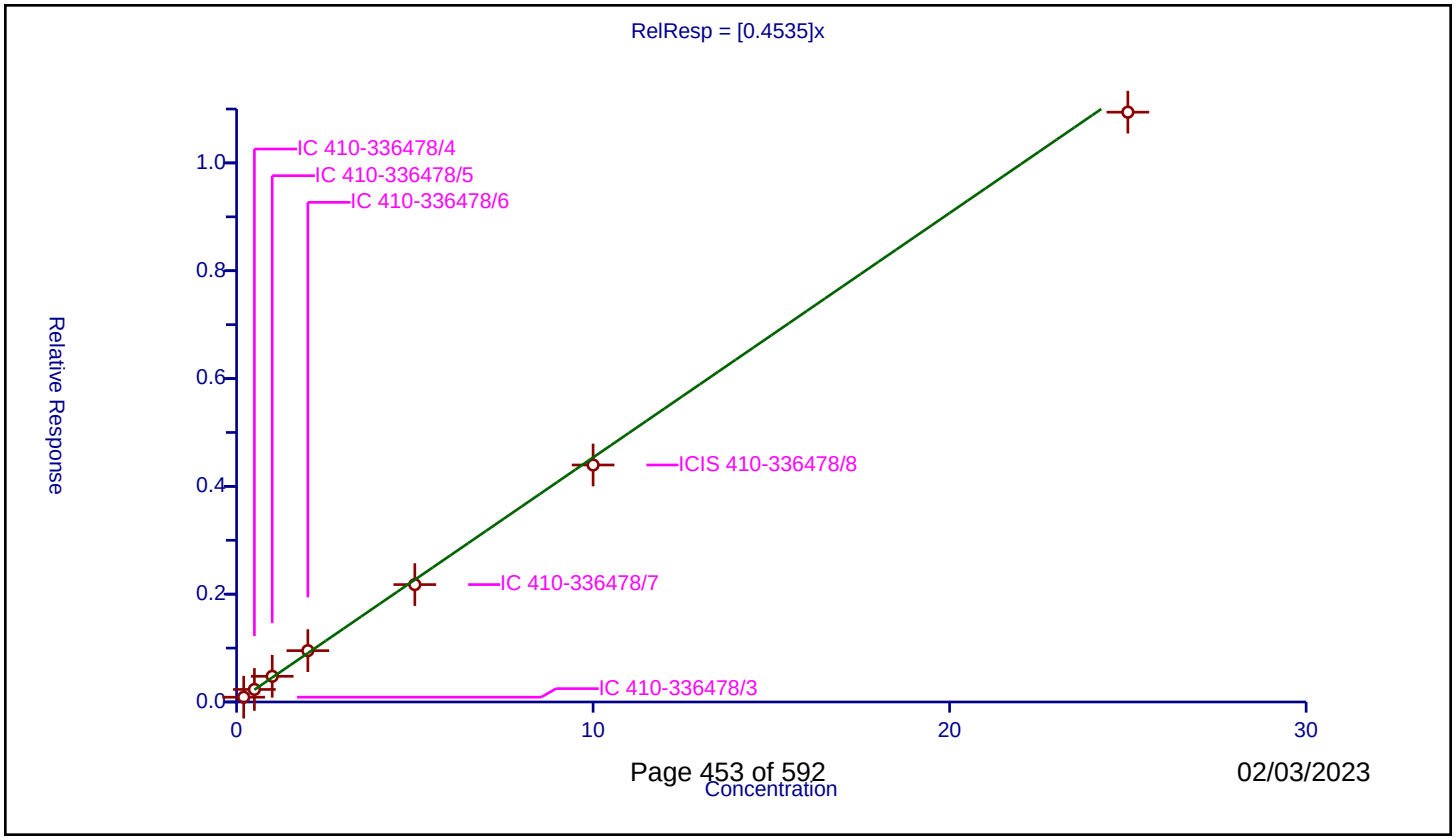
Curve Coefficients

Intercept:	0
Slope:	0.4535

Error Coefficients

Standard Error:	1190000
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 410-336478/3	0.2	0.088638	10.0	2185629.0	0.44319	Y
2	IC 410-336478/4	0.5	0.23297	10.0	2230288.0	0.46594	Y
3	IC 410-336478/5	1.0	0.47646	10.0	2203563.0	0.47646	Y
4	IC 410-336478/6	2.0	0.952495	10.0	2265934.0	0.476247	Y
5	IC 410-336478/7	5.0	2.177801	10.0	2349342.0	0.43556	Y
6	ICIS 410-336478/8	10.0	4.396349	10.0	2381599.0	0.439635	Y
7	IC 410-336478/9	25.0	10.941438	10.0	2429581.0	0.437658	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

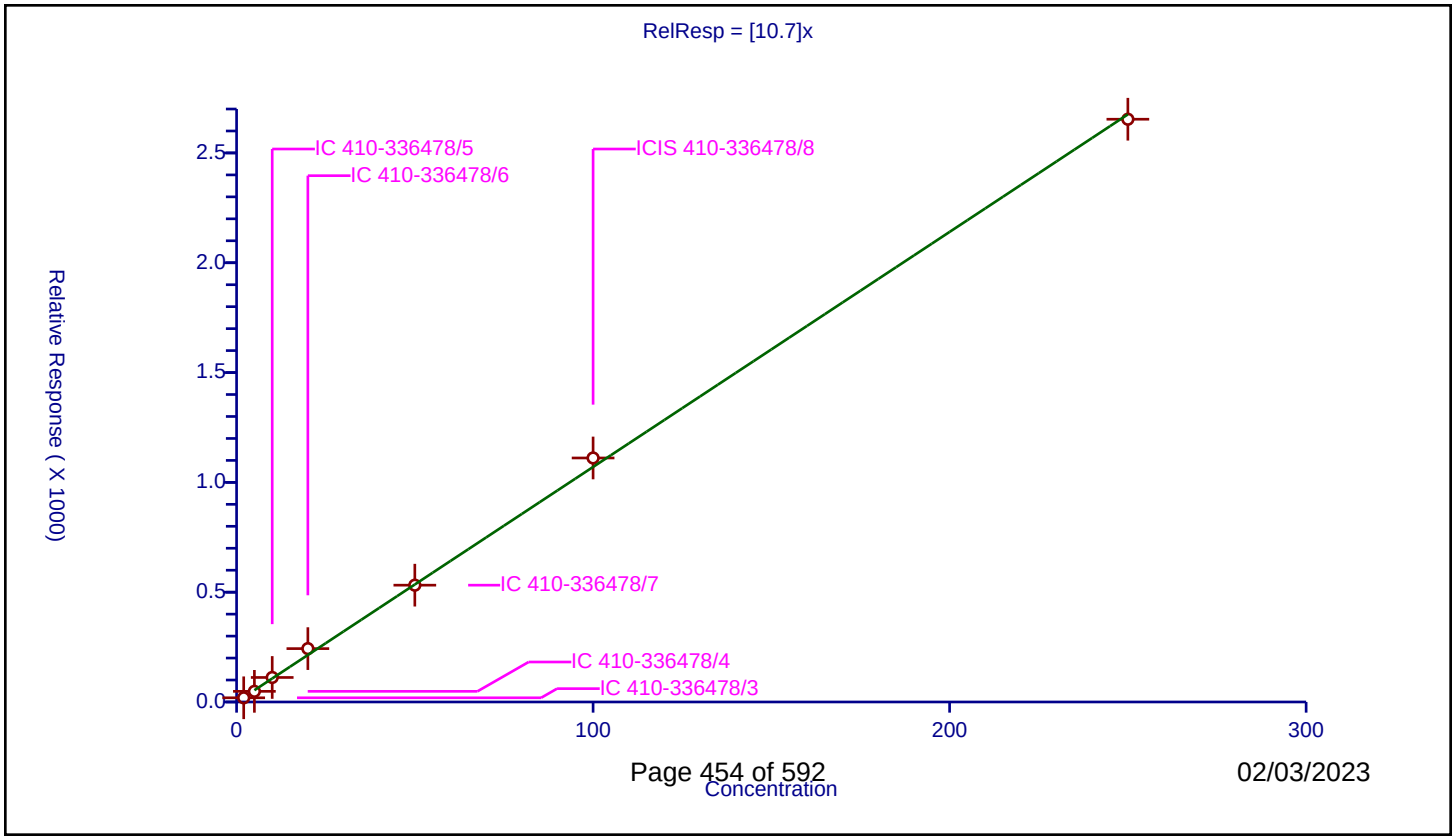
Curve Coefficients

Intercept:	0
Slope:	10.7

Error Coefficients

Standard Error:	4430000
Relative Standard Error:	8.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	2.0	19.074829	50.0	161970.0	9.537414	Y
2	IC 410-336478/4	5.0	48.473713	50.0	174574.0	9.694743	Y
3	IC 410-336478/5	10.0	111.657463	50.0	163153.0	11.165746	Y
4	IC 410-336478/6	20.0	243.018036	50.0	165283.0	12.150902	Y
5	IC 410-336478/7	50.0	531.946846	50.0	182187.0	10.638937	Y
6	ICIS 410-336478/8	100.0	1111.045878	50.0	179954.0	11.110459	Y
7	IC 410-336478/9	250.0	2653.480348	50.0	186059.0	10.613921	Y



02/03/2023

Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

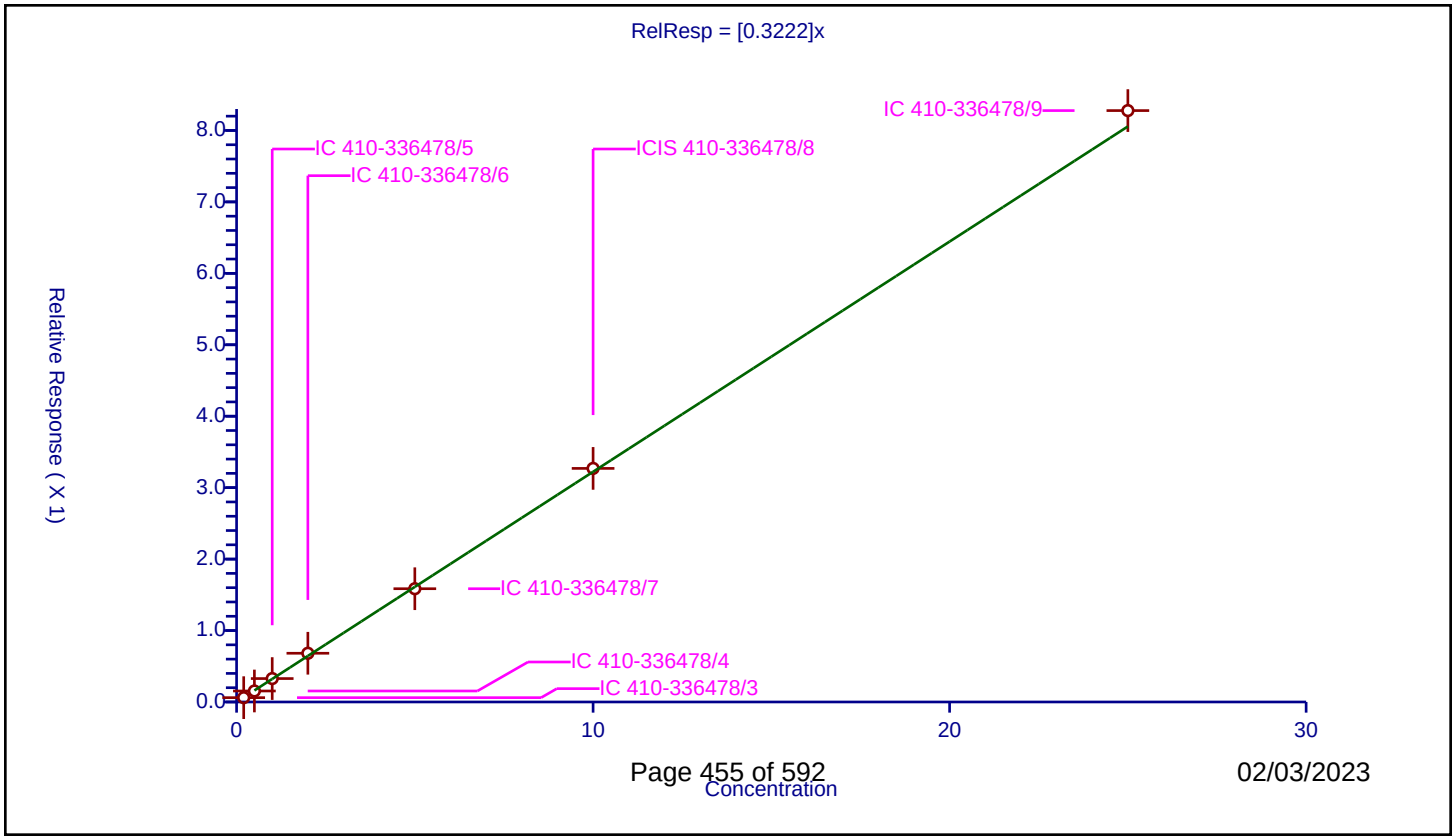
Curve Coefficients

Intercept:	0
Slope:	0.3222

Error Coefficients

Standard Error:	896000
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 410-336478/3	0.2	0.060701	10.0	2185629.0	0.303505	Y
2	IC 410-336478/4	0.5	0.153944	10.0	2230288.0	0.307888	Y
3	IC 410-336478/5	1.0	0.328073	10.0	2203563.0	0.328073	Y
4	IC 410-336478/6	2.0	0.681979	10.0	2265934.0	0.34099	Y
5	IC 410-336478/7	5.0	1.585452	10.0	2349342.0	0.31709	Y
6	ICIS 410-336478/8	10.0	3.269408	10.0	2381599.0	0.326941	Y
7	IC 410-336478/9	25.0	8.277901	10.0	2429581.0	0.331116	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

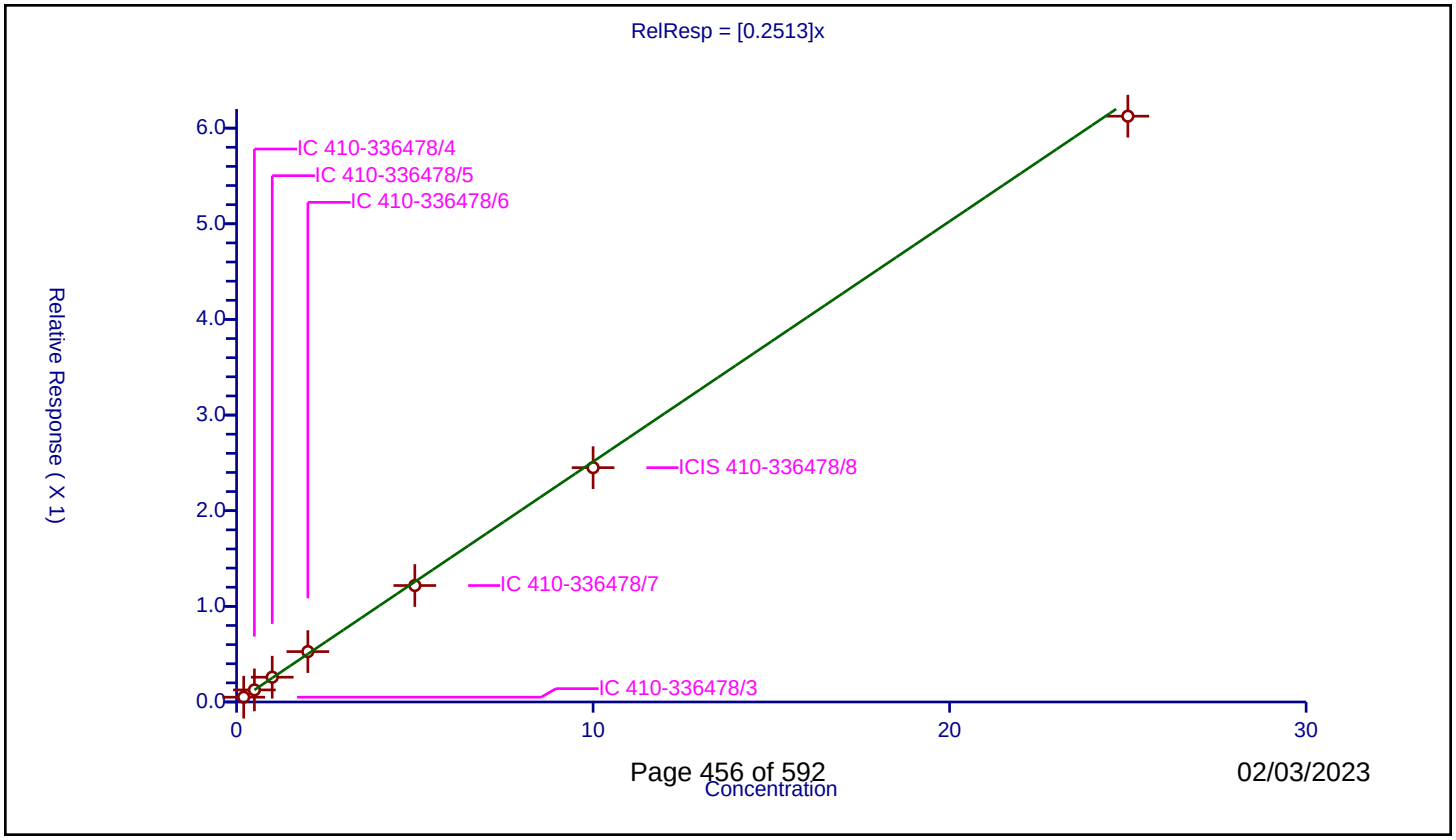
Curve Coefficients

Intercept:	0
Slope:	0.2513

Error Coefficients

Standard Error:	665000
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 410-336478/3	0.2	0.05015	10.0	2185629.0	0.250752	Y
2	IC 410-336478/4	0.5	0.126091	10.0	2230288.0	0.252183	Y
3	IC 410-336478/5	1.0	0.259103	10.0	2203563.0	0.259103	Y
4	IC 410-336478/6	2.0	0.526856	10.0	2265934.0	0.263428	Y
5	IC 410-336478/7	5.0	1.217767	10.0	2349342.0	0.243553	Y
6	ICIS 410-336478/8	10.0	2.45006	10.0	2381599.0	0.245006	Y
7	IC 410-336478/9	25.0	6.125093	10.0	2429581.0	0.245004	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

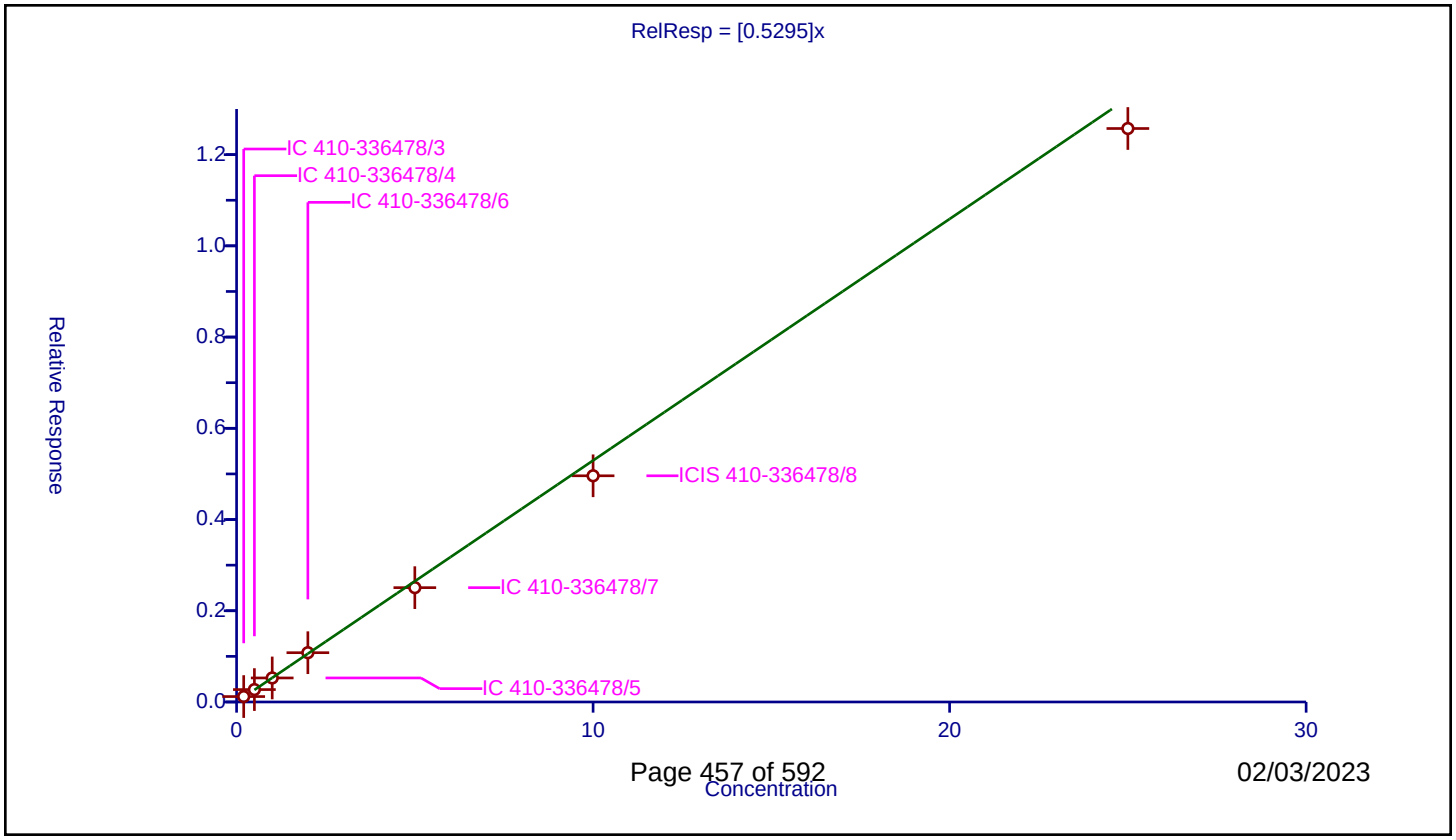
Curve Coefficients

Intercept:	0
Slope:	0.5295

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.118845	10.0	2185629.0	0.594223	Y
2	IC 410-336478/4	0.5	0.272324	10.0	2230288.0	0.544647	Y
3	IC 410-336478/5	1.0	0.526915	10.0	2203563.0	0.526915	Y
4	IC 410-336478/6	2.0	1.080477	10.0	2265934.0	0.540239	Y
5	IC 410-336478/7	5.0	2.506842	10.0	2349342.0	0.501368	Y
6	ICIS 410-336478/8	10.0	4.959319	10.0	2381599.0	0.495932	Y
7	IC 410-336478/9	25.0	12.572917	10.0	2429581.0	0.502917	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

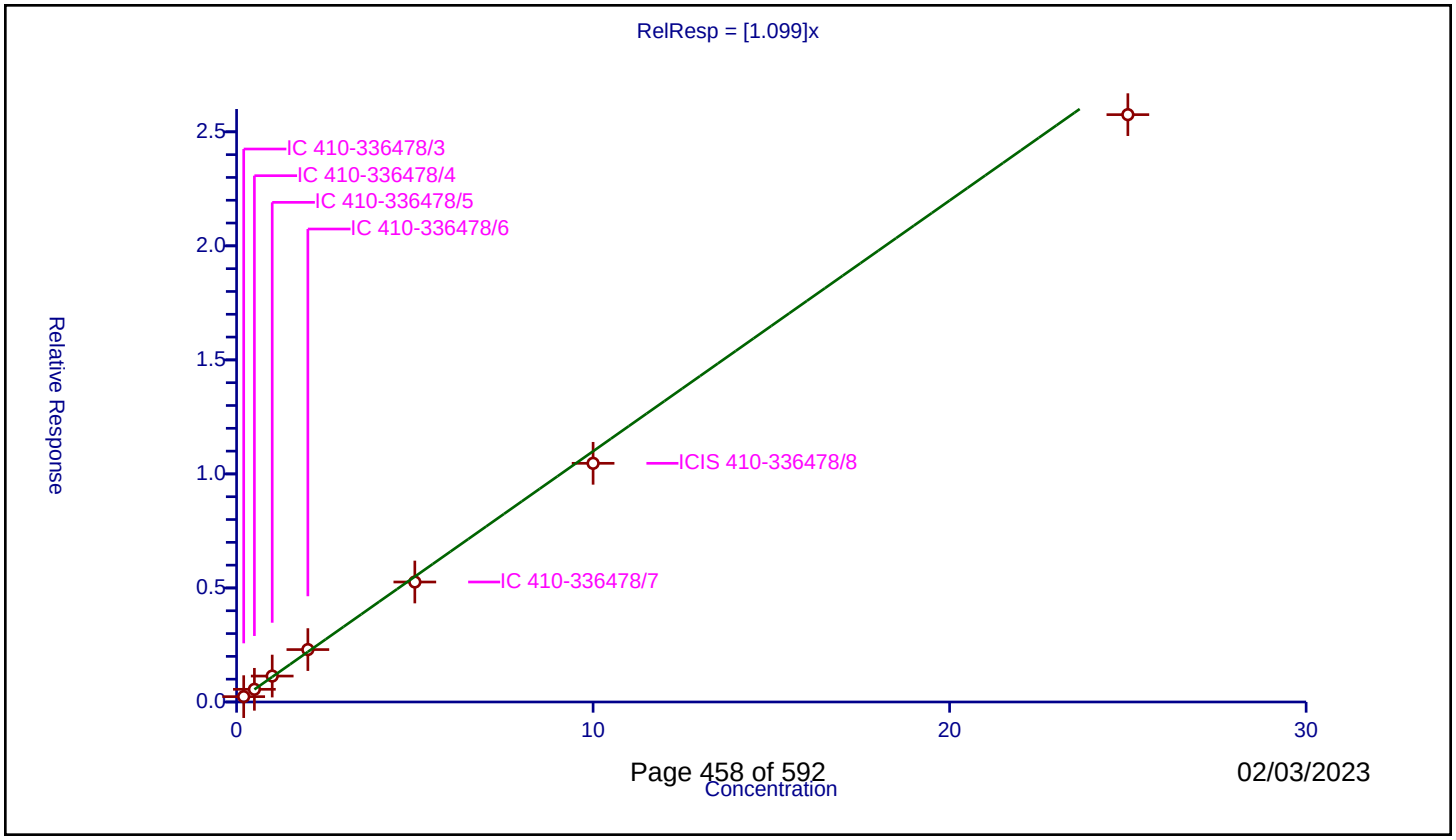
Curve Coefficients

Intercept:	0
Slope:	1.099

Error Coefficients

Standard Error:	2810000
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 410-336478/3	0.2	0.233946	10.0	2185629.0	1.169732	Y
2	IC 410-336478/4	0.5	0.555556	10.0	2230288.0	1.111112	Y
3	IC 410-336478/5	1.0	1.137258	10.0	2203563.0	1.137258	Y
4	IC 410-336478/6	2.0	2.297803	10.0	2265934.0	1.148902	Y
5	IC 410-336478/7	5.0	5.261367	10.0	2349342.0	1.052273	Y
6	ICIS 410-336478/8	10.0	10.46494	10.0	2381599.0	1.046494	Y
7	IC 410-336478/9	25.0	25.753305	10.0	2429581.0	1.030132	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

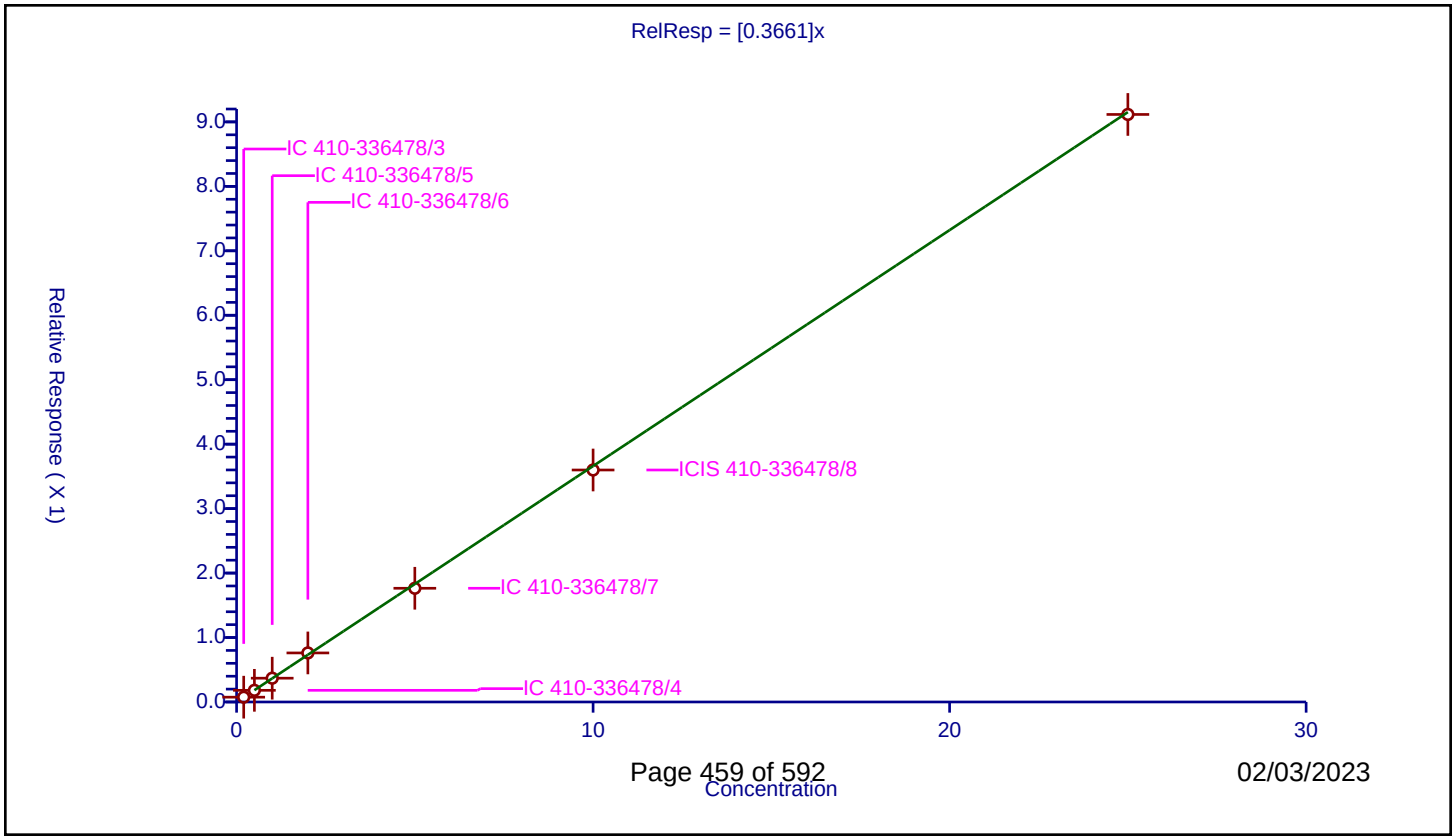
Curve Coefficients

Intercept:	0
Slope:	0.3661

Error Coefficients

Standard Error:	987000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.07467	10.0	2185629.0	0.373348	Y
2	IC 410-336478/4	0.5	0.180829	10.0	2230288.0	0.361657	Y
3	IC 410-336478/5	1.0	0.369443	10.0	2203563.0	0.369443	Y
4	IC 410-336478/6	2.0	0.761253	10.0	2265934.0	0.380627	Y
5	IC 410-336478/7	5.0	1.764171	10.0	2349342.0	0.352834	Y
6	ICIS 410-336478/8	10.0	3.599233	10.0	2381599.0	0.359923	Y
7	IC 410-336478/9	25.0	9.11558	10.0	2429581.0	0.364623	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

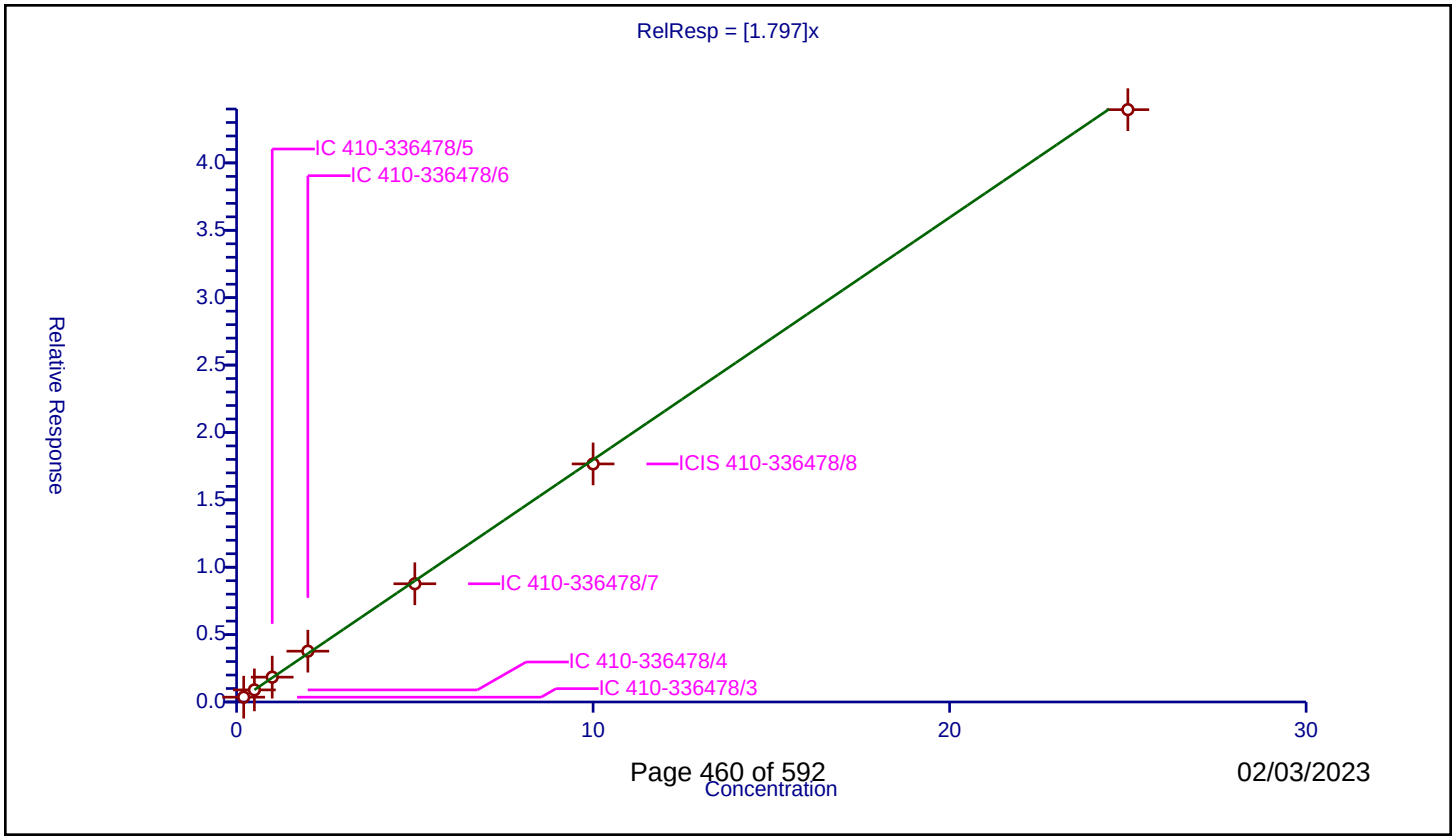
Curve Coefficients

Intercept:	0
Slope:	1.797

Error Coefficients

Standard Error:	4780000
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 410-336478/3	0.2	0.356387	10.0	2185629.0	1.781936	Y
2	IC 410-336478/4	0.5	0.896539	10.0	2230288.0	1.793078	Y
3	IC 410-336478/5	1.0	1.842784	10.0	2203563.0	1.842784	Y
4	IC 410-336478/6	2.0	3.770926	10.0	2265934.0	1.885463	Y
5	IC 410-336478/7	5.0	8.772737	10.0	2349342.0	1.754547	Y
6	ICIS 410-336478/8	10.0	17.665657	10.0	2381599.0	1.766566	Y
7	IC 410-336478/9	25.0	43.951529	10.0	2429581.0	1.758061	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

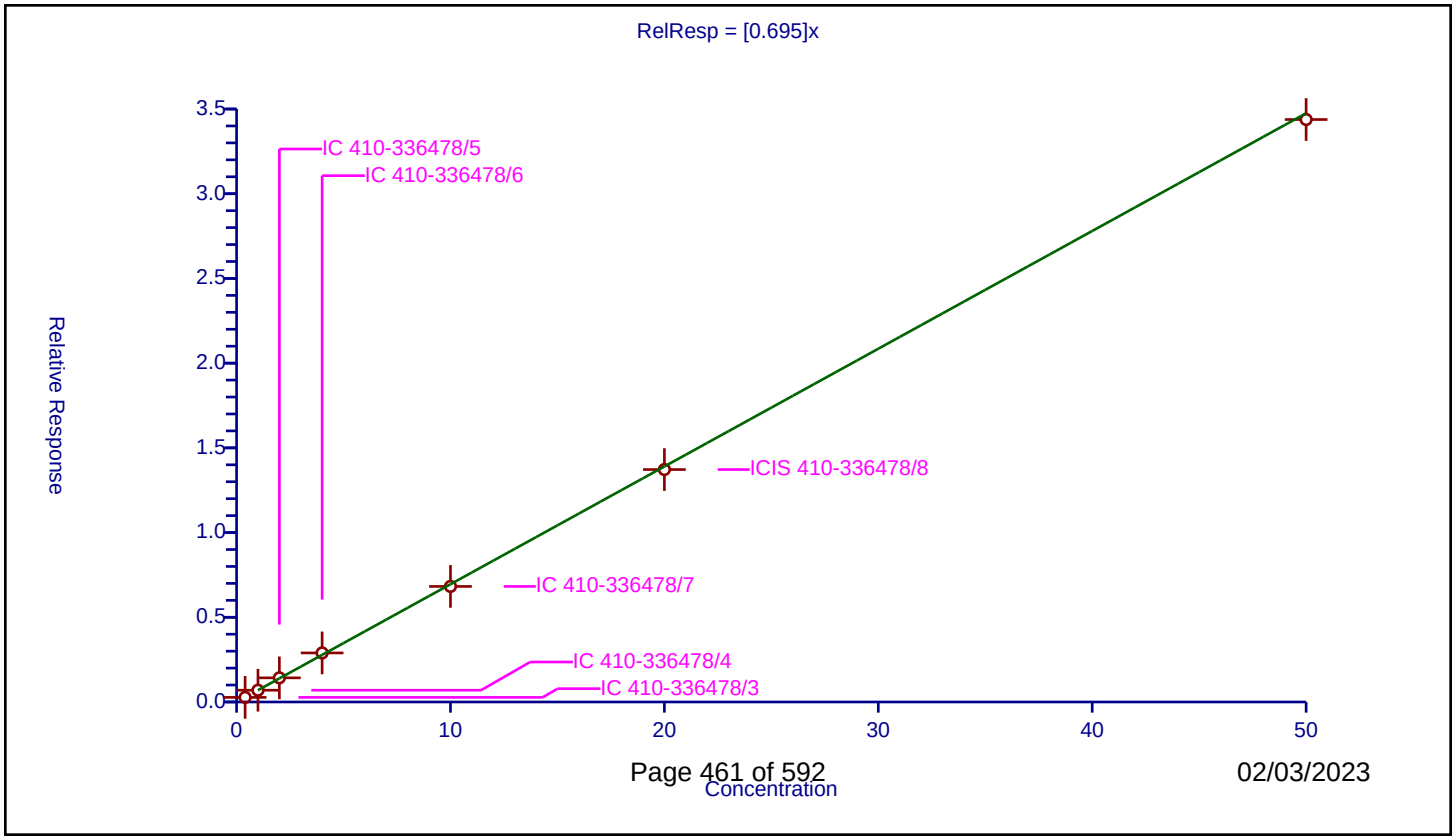
Curve Coefficients

Intercept:	0
Slope:	0.695

Error Coefficients

Standard Error:	3730000
Relative Standard Error:	2.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.4	0.271464	10.0	2185629.0	0.67866	Y
2	IC 410-336478/4	1.0	0.694435	10.0	2230288.0	0.694435	Y
3	IC 410-336478/5	2.0	1.425065	10.0	2203563.0	0.712532	Y
4	IC 410-336478/6	4.0	2.894731	10.0	2265934.0	0.723683	Y
5	IC 410-336478/7	10.0	6.820714	10.0	2349342.0	0.682071	Y
6	ICIS 410-336478/8	20.0	13.719551	10.0	2381599.0	0.685978	Y
7	IC 410-336478/9	50.0	34.380187	10.0	2429581.0	0.687604	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

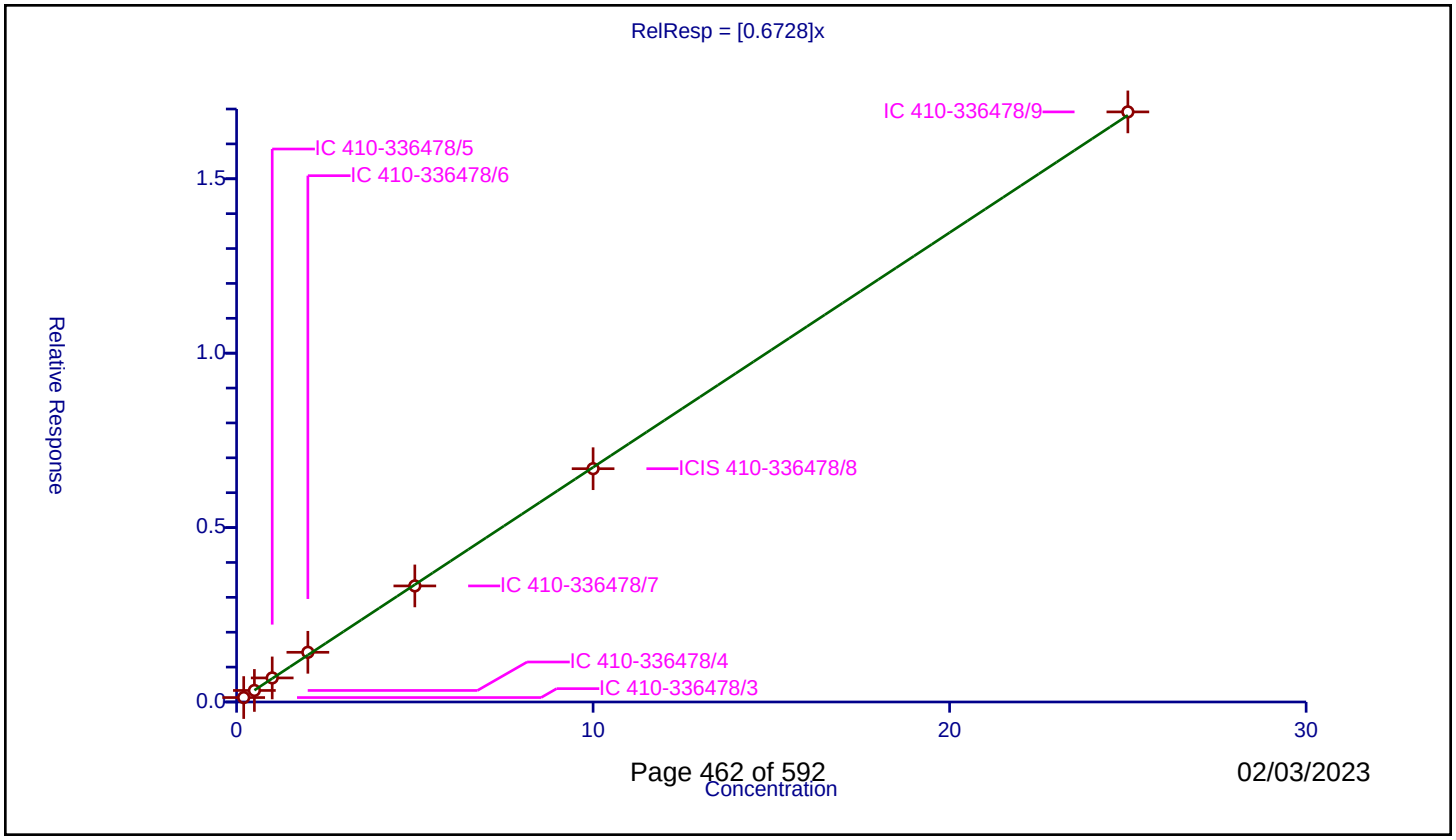
Curve Coefficients

Intercept:	0
Slope:	0.6728

Error Coefficients

Standard Error:	1830000
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 410-336478/3	0.2	0.127108	10.0	2185629.0	0.635538	Y
2	IC 410-336478/4	0.5	0.330374	10.0	2230288.0	0.660749	Y
3	IC 410-336478/5	1.0	0.690296	10.0	2203563.0	0.690296	Y
4	IC 410-336478/6	2.0	1.424574	10.0	2265934.0	0.712287	Y
5	IC 410-336478/7	5.0	3.32754	10.0	2349342.0	0.665508	Y
6	ICIS 410-336478/8	10.0	6.688456	10.0	2381599.0	0.668846	Y
7	IC 410-336478/9	25.0	16.917456	10.0	2429581.0	0.676698	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

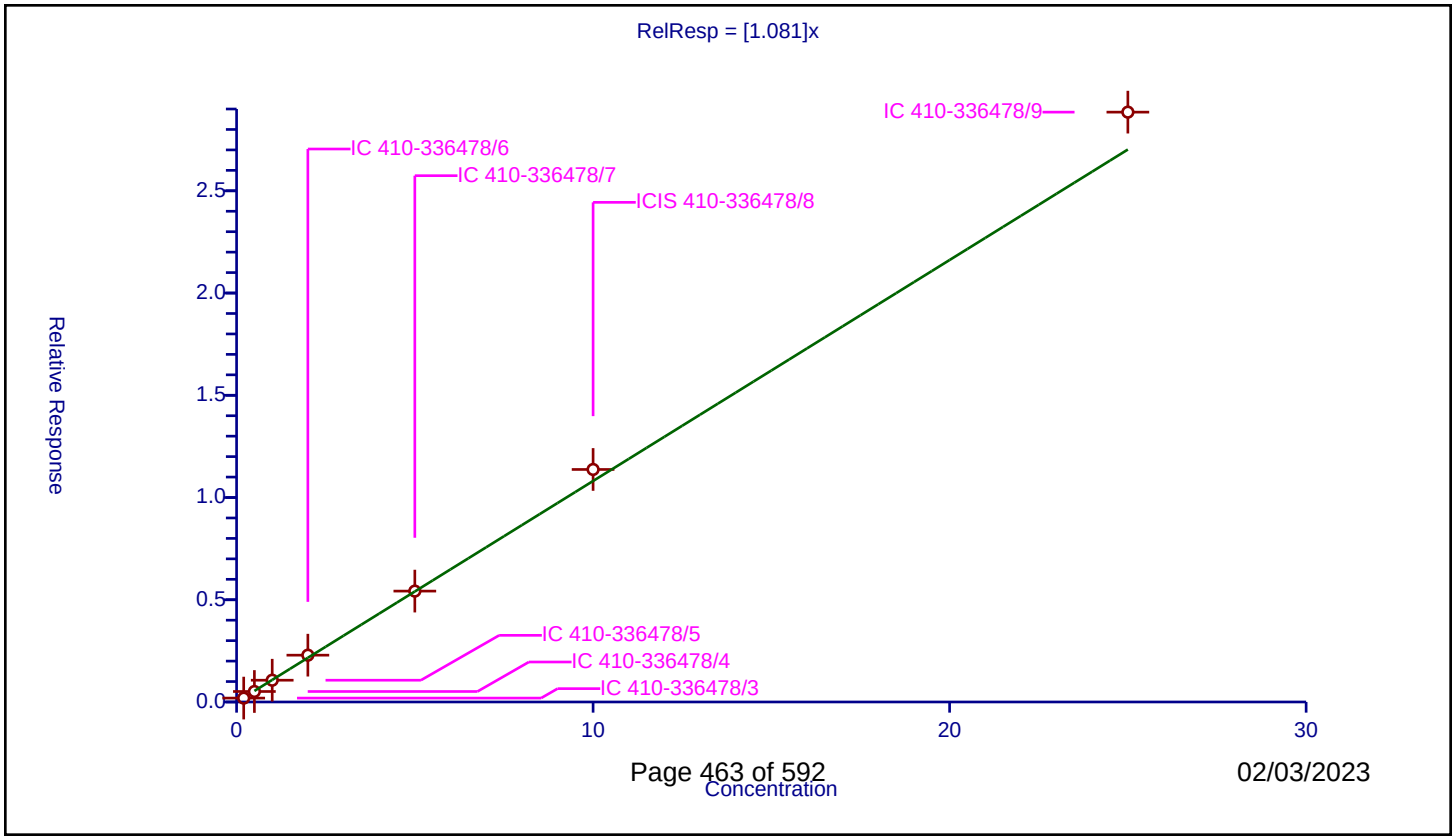
Curve Coefficients

Intercept:	0
Slope:	1.081

Error Coefficients

Standard Error:	3120000
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 410-336478/3	0.2	0.190481	10.0	2185629.0	0.952403	Y
2	IC 410-336478/4	0.5	0.513692	10.0	2230288.0	1.027383	Y
3	IC 410-336478/5	1.0	1.065116	10.0	2203563.0	1.065116	Y
4	IC 410-336478/6	2.0	2.2894	10.0	2265934.0	1.1447	Y
5	IC 410-336478/7	5.0	5.423387	10.0	2349342.0	1.084677	Y
6	ICIS 410-336478/8	10.0	11.371482	10.0	2381599.0	1.137148	Y
7	IC 410-336478/9	25.0	28.84727	10.0	2429581.0	1.153891	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

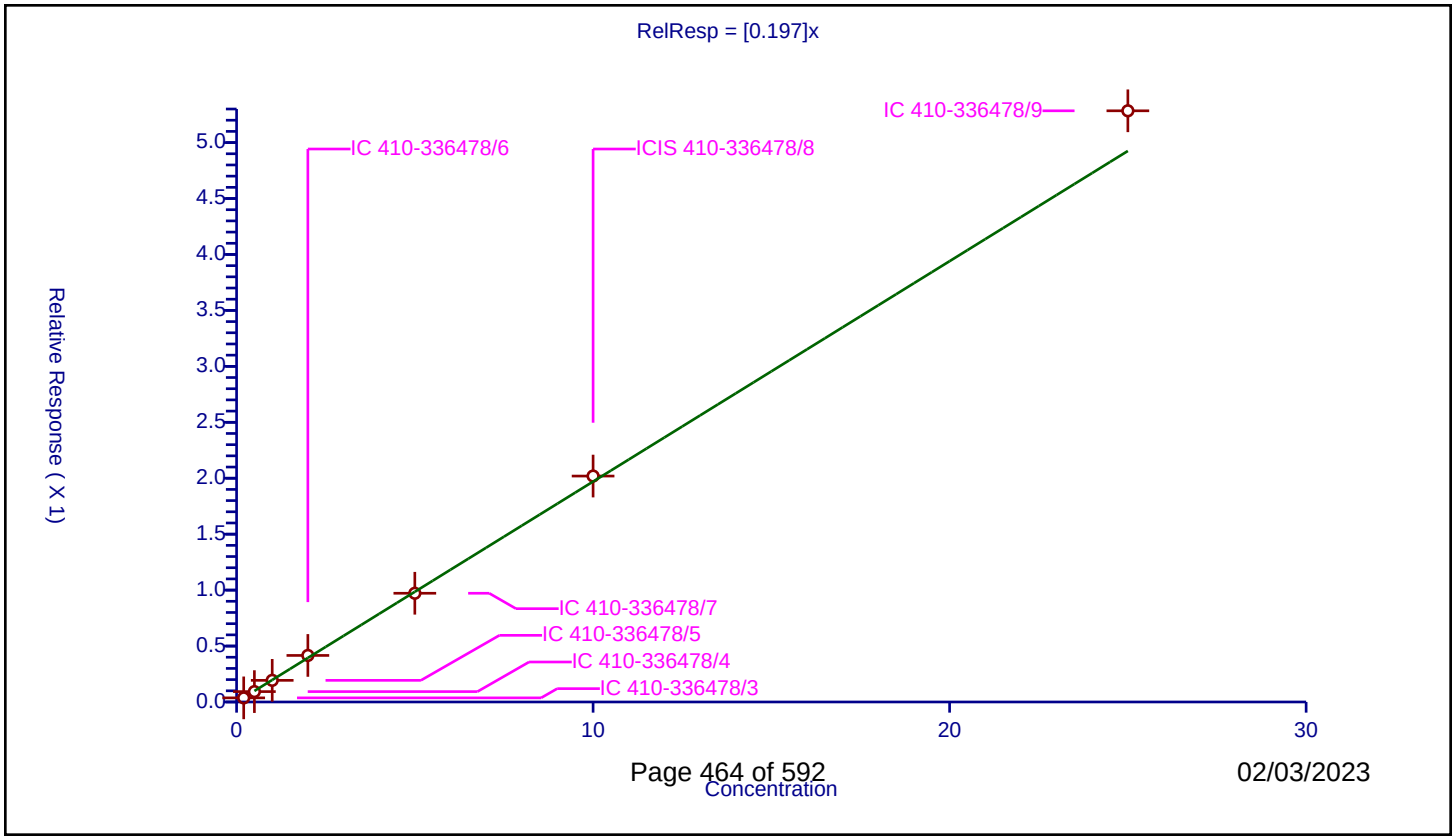
Curve Coefficients

Intercept:	0
Slope:	0.197

Error Coefficients

Standard Error:	569000
Relative Standard Error:	5.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.036832	10.0	2185629.0	0.184158	Y
2	IC 410-336478/4	0.5	0.092876	10.0	2230288.0	0.185752	Y
3	IC 410-336478/5	1.0	0.193473	10.0	2203563.0	0.193473	Y
4	IC 410-336478/6	2.0	0.415979	10.0	2265934.0	0.207989	Y
5	IC 410-336478/7	5.0	0.971749	10.0	2349342.0	0.19435	Y
6	ICIS 410-336478/8	10.0	2.019416	10.0	2381599.0	0.201942	Y
7	IC 410-336478/9	25.0	5.283952	10.0	2429581.0	0.211358	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

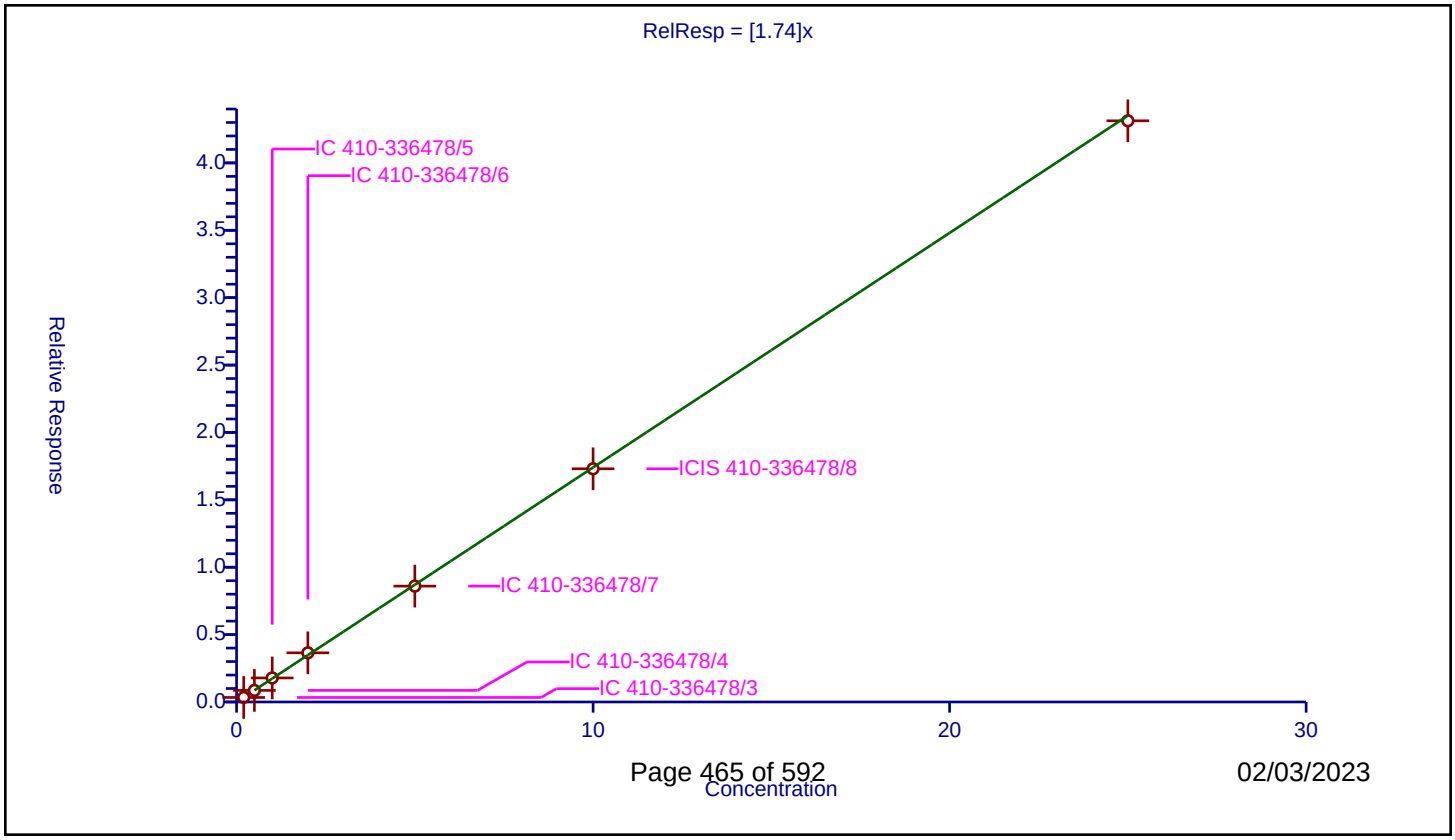
Curve Coefficients

Intercept:	0
Slope:	1.74

Error Coefficients

Standard Error:	4690000
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 410-336478/3	0.2	0.336141	10.0	2185629.0	1.680706	Y
2	IC 410-336478/4	0.5	0.859562	10.0	2230288.0	1.719123	Y
3	IC 410-336478/5	1.0	1.784179	10.0	2203563.0	1.784179	Y
4	IC 410-336478/6	2.0	3.647189	10.0	2265934.0	1.823595	Y
5	IC 410-336478/7	5.0	8.59759	10.0	2349342.0	1.719518	Y
6	ICIS 410-336478/8	10.0	17.304034	10.0	2381599.0	1.730403	Y
7	IC 410-336478/9	25.0	43.125761	10.0	2429581.0	1.72503	Y



02/03/2023

Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

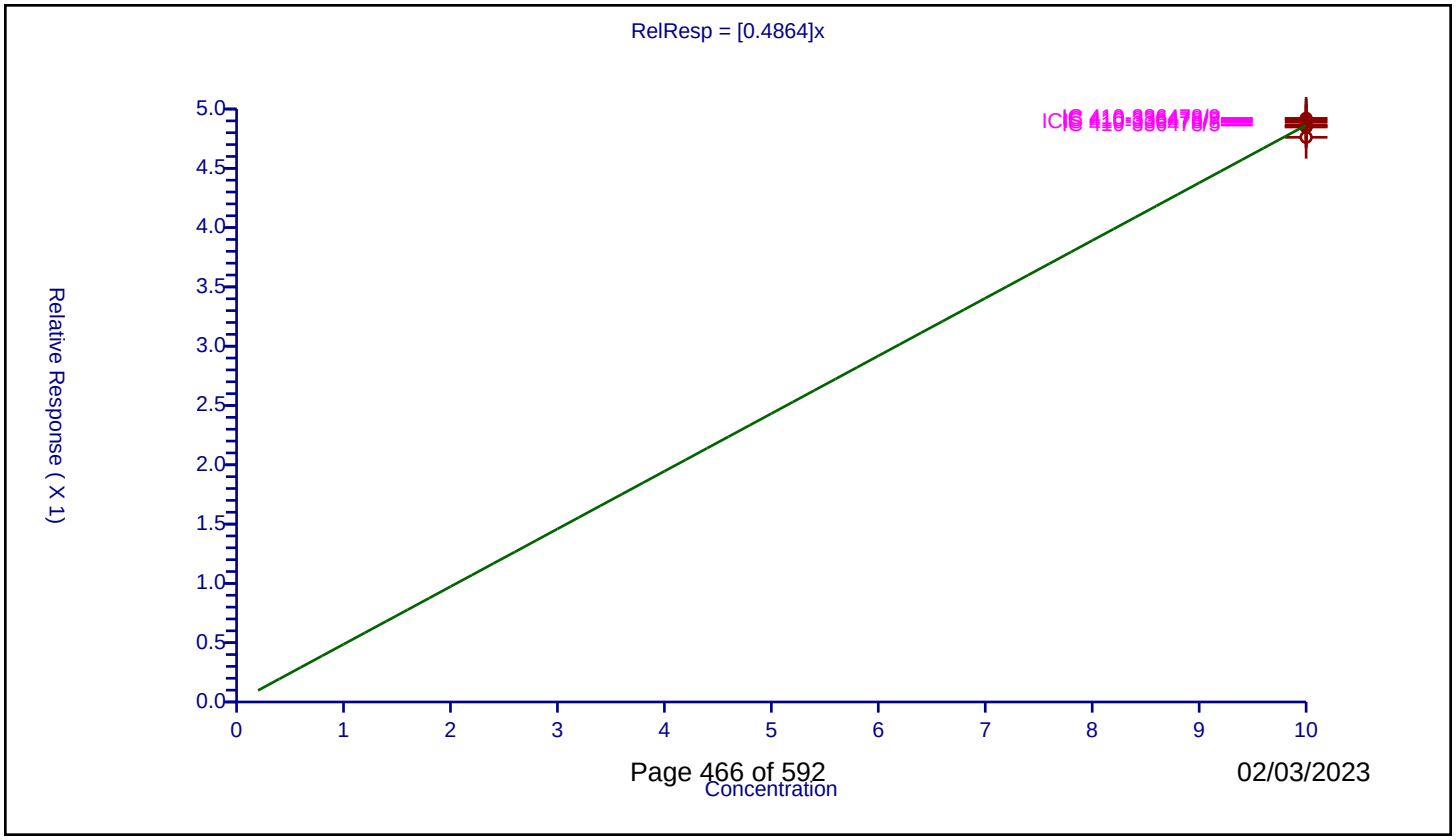
Curve Coefficients

Intercept:	0
Slope:	0.4864

Error Coefficients

Standard Error:	1210000
Relative Standard Error:	1.1
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	10.0	4.761471	10.0	2185629.0	0.476147	Y
2	IC 410-336478/4	10.0	4.854804	10.0	2230288.0	0.48548	Y
3	IC 410-336478/5	10.0	4.864907	10.0	2203563.0	0.486491	Y
4	IC 410-336478/6	10.0	4.848204	10.0	2265934.0	0.48482	Y
5	IC 410-336478/7	10.0	4.906169	10.0	2349342.0	0.490617	Y
6	ICIS 410-336478/8	10.0	4.888959	10.0	2381599.0	0.488896	Y
7	IC 410-336478/9	10.0	4.921083	10.0	2429581.0	0.492108	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

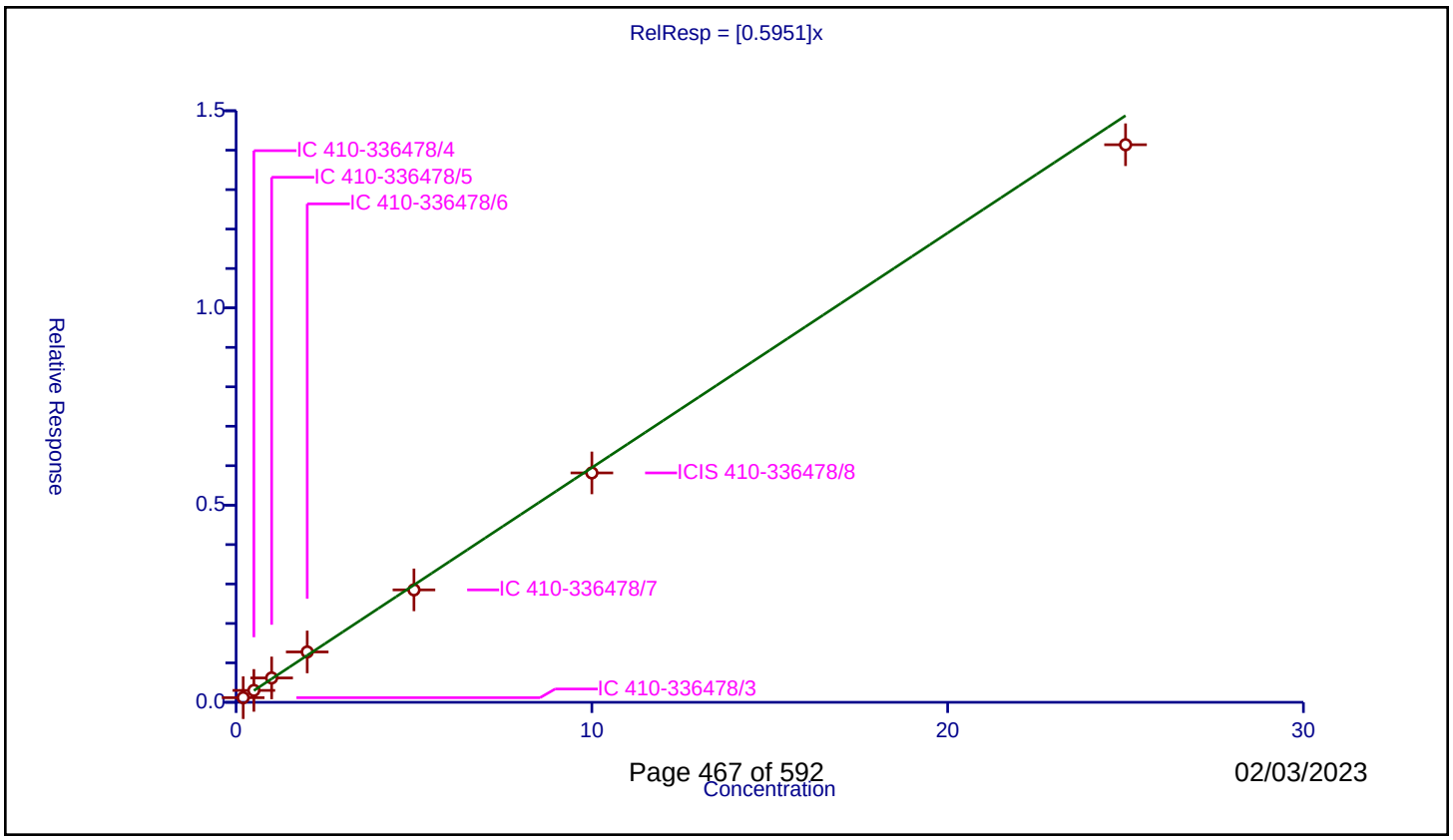
Curve Coefficients

Intercept:	0
Slope:	0.5951

Error Coefficients

Standard Error:	925000
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 410-336478/3	0.2	0.117315	10.0	1272727.0	0.586575	Y
2	IC 410-336478/4	0.5	0.302068	10.0	1314073.0	0.604137	Y
3	IC 410-336478/5	1.0	0.618565	10.0	1290745.0	0.618565	Y
4	IC 410-336478/6	2.0	1.277382	10.0	1319261.0	0.638691	Y
5	IC 410-336478/7	5.0	2.85121	10.0	1391974.0	0.570242	Y
6	ICIS 410-336478/8	10.0	5.817045	10.0	1400357.0	0.581705	Y
7	IC 410-336478/9	25.0	14.138741	10.0	1461749.0	0.56555	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

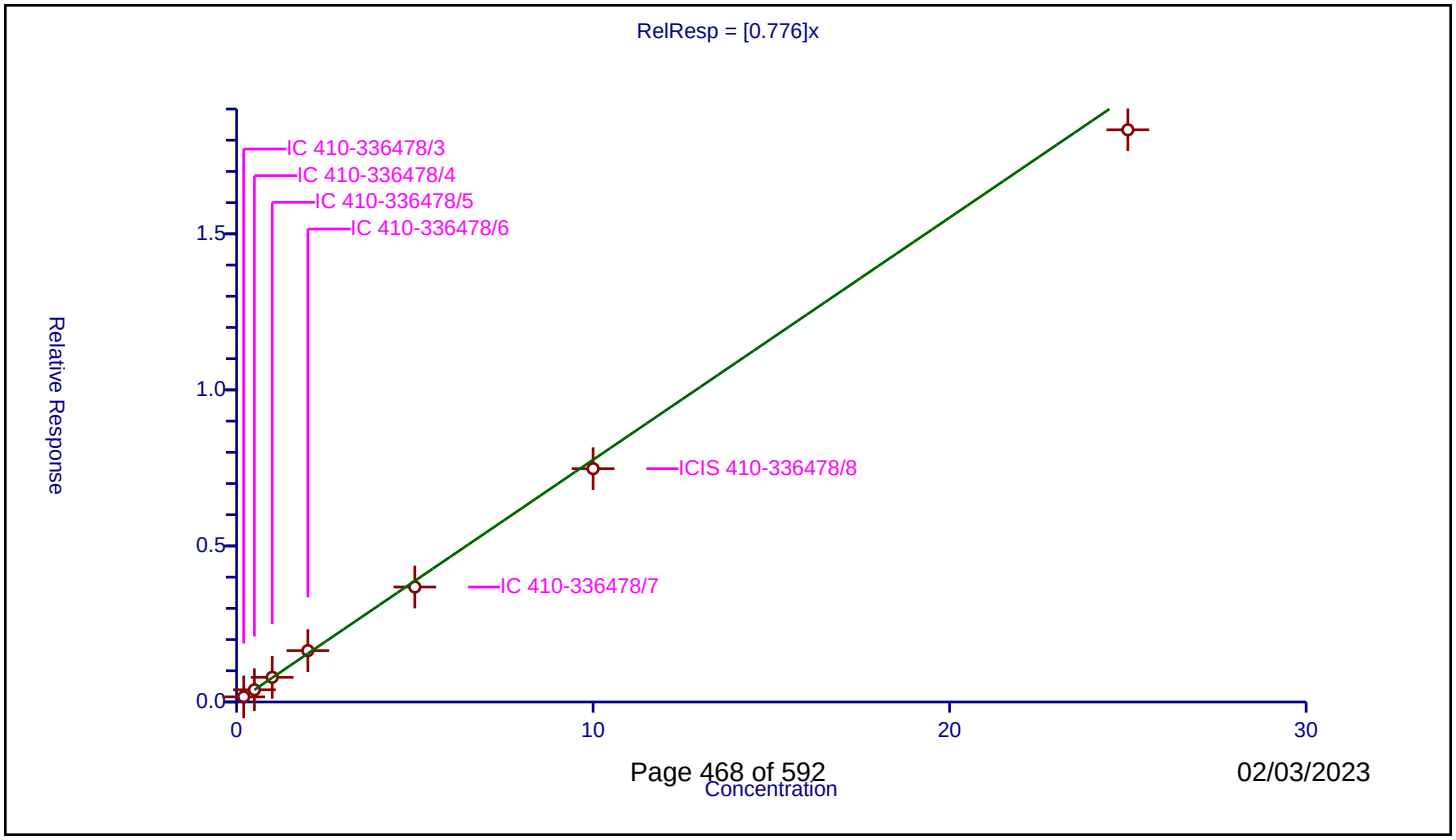
Curve Coefficients

Intercept:	0
Slope:	0.776

Error Coefficients

Standard Error:	1200000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.163468	10.0	1272727.0	0.817339	Y
2	IC 410-336478/4	0.5	0.391401	10.0	1314073.0	0.782803	Y
3	IC 410-336478/5	1.0	0.791055	10.0	1290745.0	0.791055	Y
4	IC 410-336478/6	2.0	1.646452	10.0	1319261.0	0.823226	Y
5	IC 410-336478/7	5.0	3.6842	10.0	1391974.0	0.73684	Y
6	ICIS 410-336478/8	10.0	7.476436	10.0	1400357.0	0.747644	Y
7	IC 410-336478/9	25.0	18.333989	10.0	1461749.0	0.73336	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

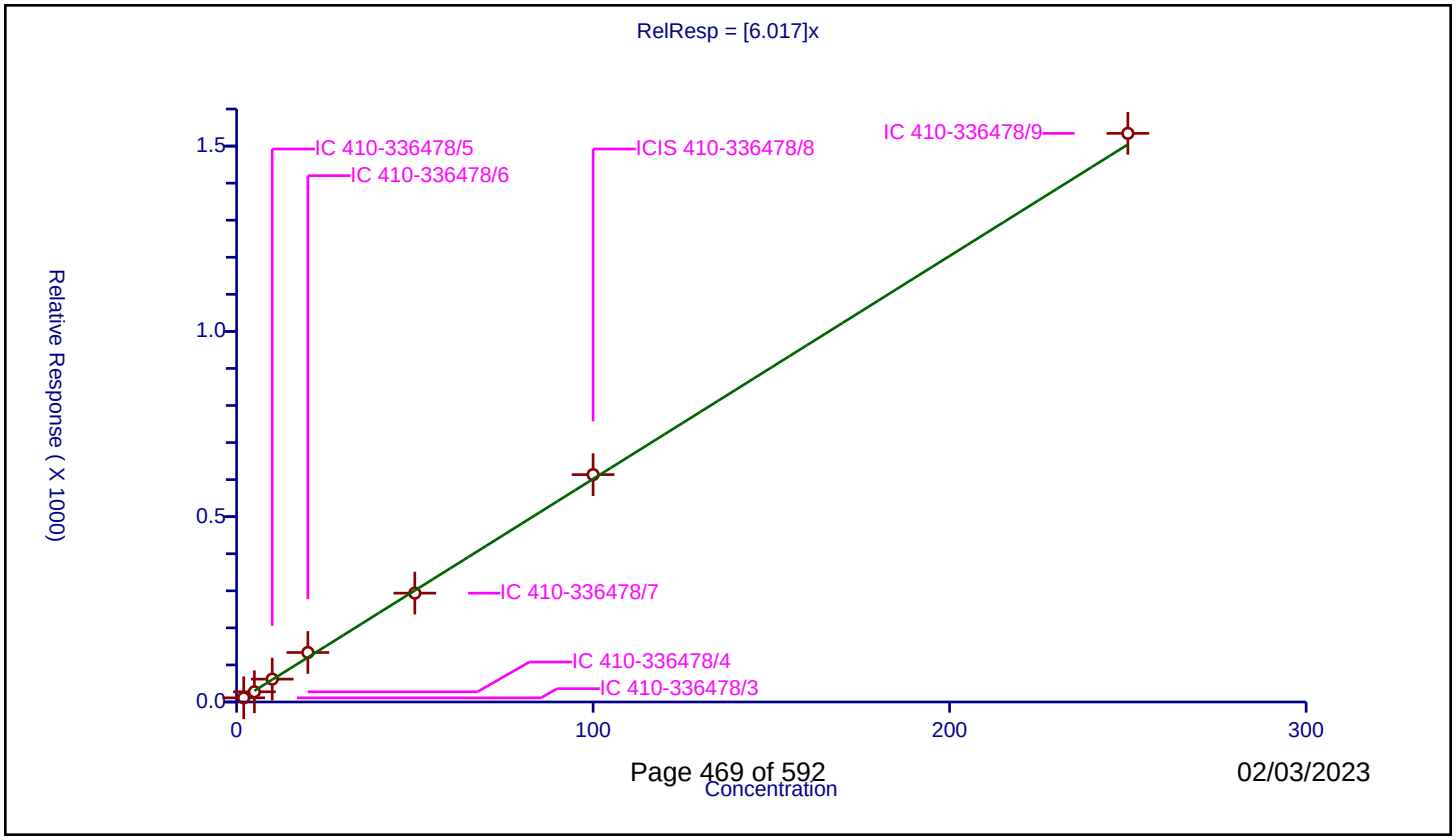
Curve Coefficients

Intercept:	0
Slope:	6.017

Error Coefficients

Standard Error:	2540000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	2.0	11.254245	50.0	161970.0	5.627122	Y
2	IC 410-336478/4	5.0	27.501232	50.0	174574.0	5.500246	Y
3	IC 410-336478/5	10.0	61.72519	50.0	163153.0	6.172519	Y
4	IC 410-336478/6	20.0	133.49195	50.0	165283.0	6.674598	Y
5	IC 410-336478/7	50.0	293.705369	50.0	182187.0	5.874107	Y
6	ICIS 410-336478/8	100.0	613.54485	50.0	179954.0	6.135449	Y
7	IC 410-336478/9	250.0	1534.307128	50.0	186059.0	6.137229	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

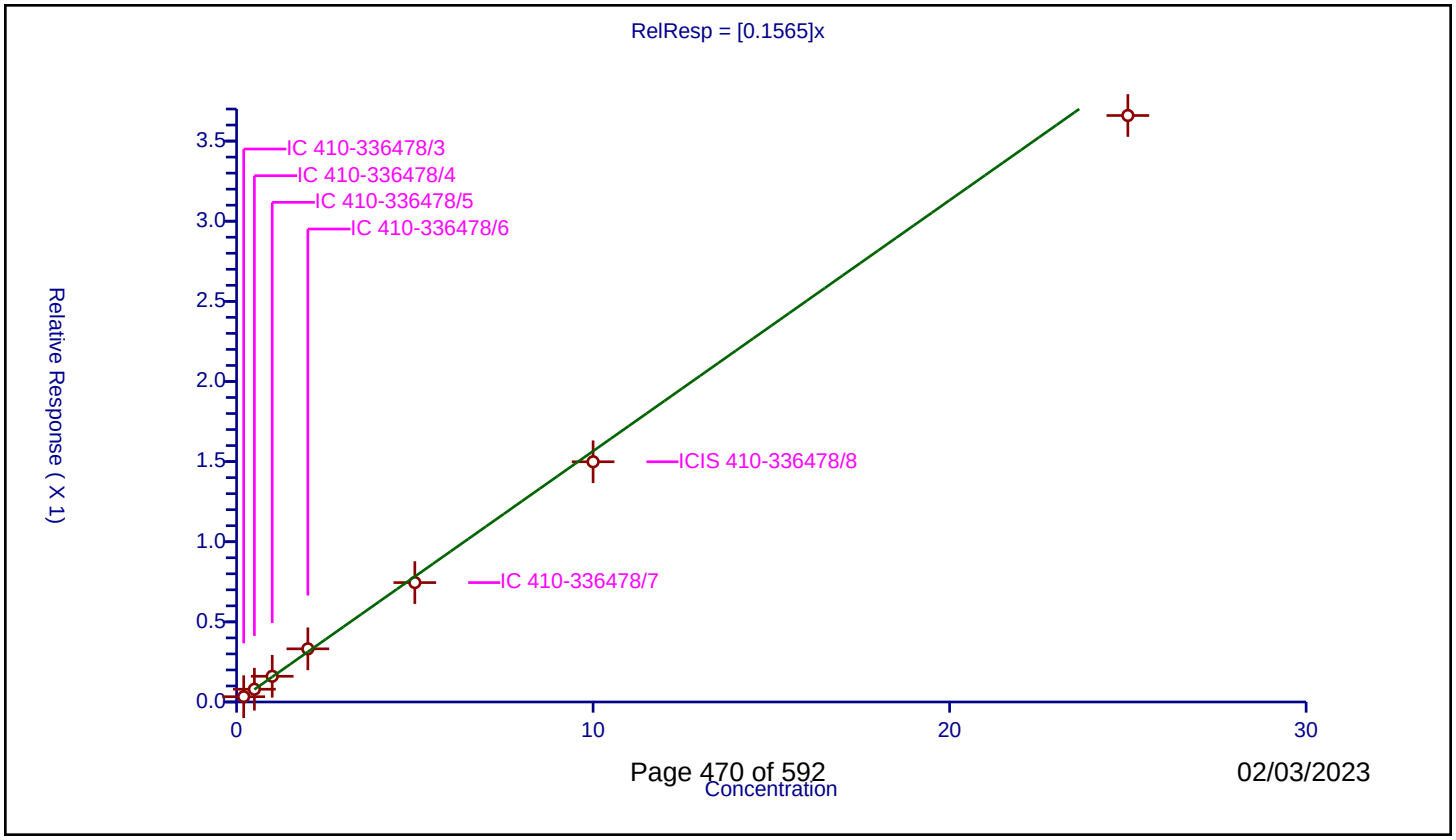
Curve Coefficients

Intercept:	0
Slope:	0.1565

Error Coefficients

Standard Error:	239000
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 410-336478/3	0.2	0.032976	10.0	1272727.0	0.164882	Y
2	IC 410-336478/4	0.5	0.079623	10.0	1314073.0	0.159245	Y
3	IC 410-336478/5	1.0	0.160504	10.0	1290745.0	0.160504	Y
4	IC 410-336478/6	2.0	0.331693	10.0	1319261.0	0.165847	Y
5	IC 410-336478/7	5.0	0.745028	10.0	1391974.0	0.149006	Y
6	ICIS 410-336478/8	10.0	1.498939	10.0	1400357.0	0.149894	Y
7	IC 410-336478/9	25.0	3.65952	10.0	1461749.0	0.146381	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

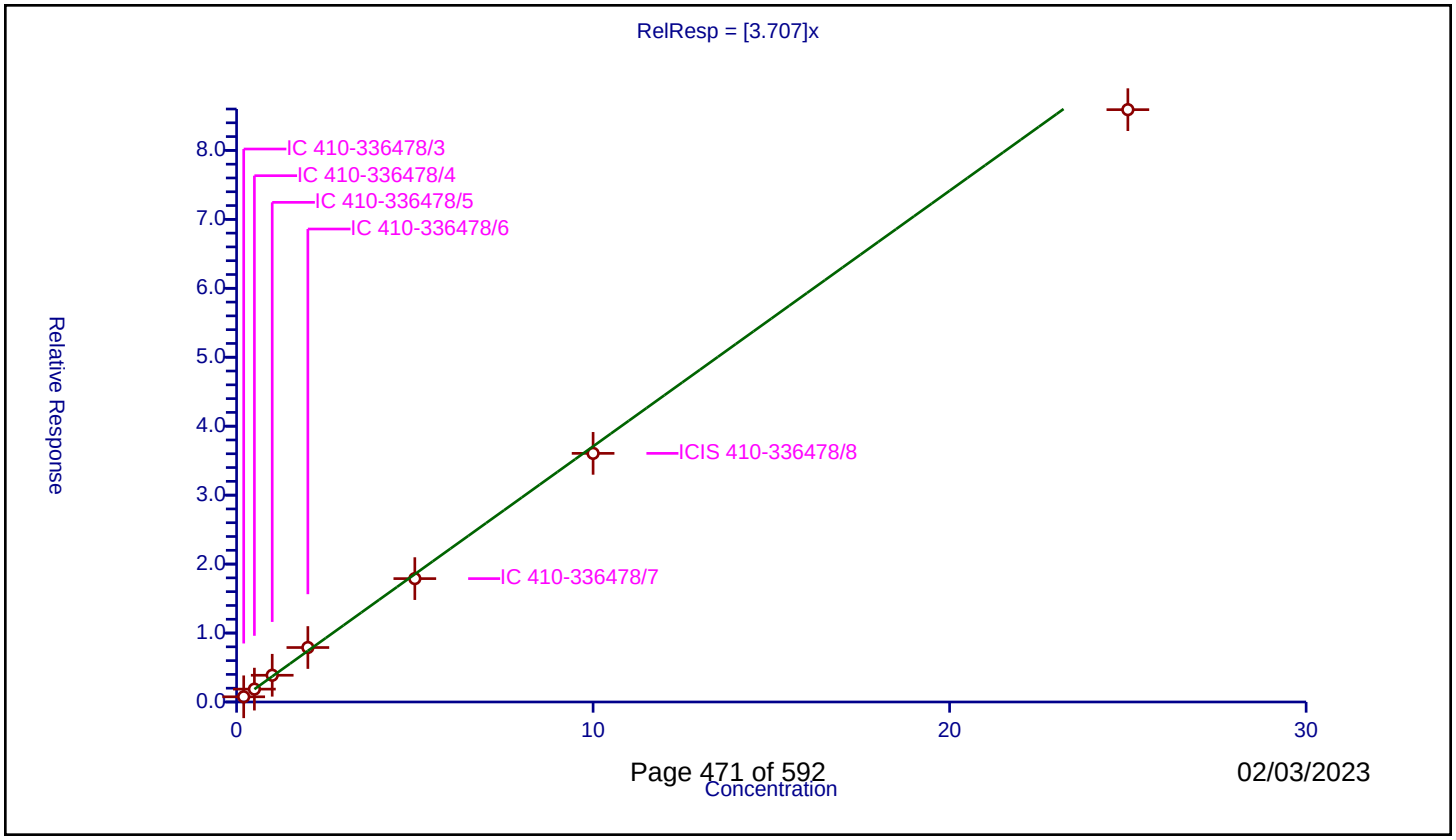
Curve Coefficients

Intercept:	0
Slope:	3.707

Error Coefficients

Standard Error:	5640000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.753555	10.0	1272727.0	3.767776	Y
2	IC 410-336478/4	0.5	1.86705	10.0	1314073.0	3.7341	Y
3	IC 410-336478/5	1.0	3.878466	10.0	1290745.0	3.878466	Y
4	IC 410-336478/6	2.0	7.90128	10.0	1319261.0	3.95064	Y
5	IC 410-336478/7	5.0	17.891907	10.0	1391974.0	3.578381	Y
6	ICIS 410-336478/8	10.0	36.059391	10.0	1400357.0	3.605939	Y
7	IC 410-336478/9	25.0	85.905877	10.0	1461749.0	3.436235	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

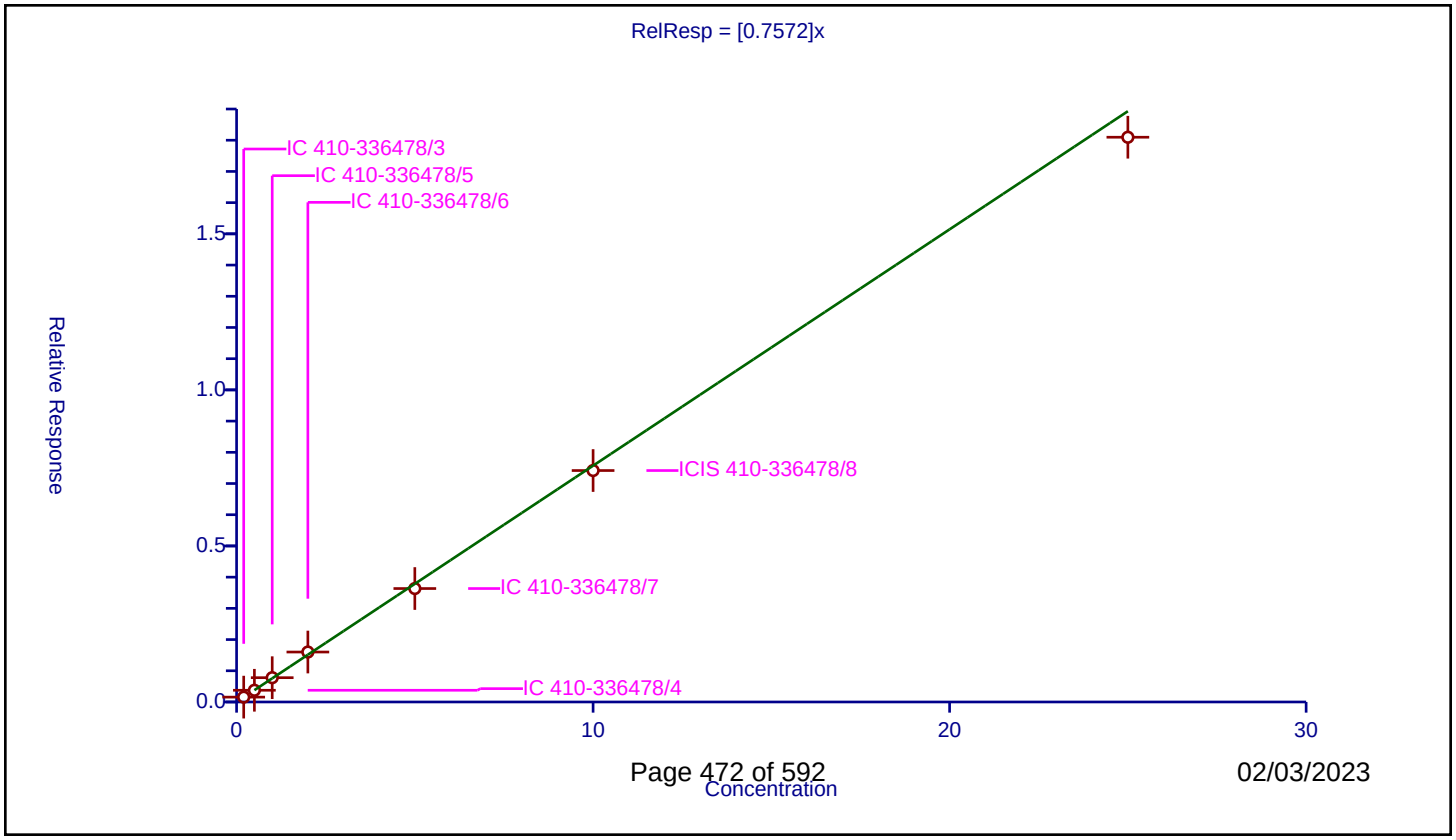
Curve Coefficients

Intercept:	0
Slope:	0.7572

Error Coefficients

Standard Error:	1180000
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 410-336478/3	0.2	0.155619	10.0	1272727.0	0.778093	Y
2	IC 410-336478/4	0.5	0.375215	10.0	1314073.0	0.75043	Y
3	IC 410-336478/5	1.0	0.778915	10.0	1290745.0	0.778915	Y
4	IC 410-336478/6	2.0	1.600676	10.0	1319261.0	0.800338	Y
5	IC 410-336478/7	5.0	3.635247	10.0	1391974.0	0.727049	Y
6	ICIS 410-336478/8	10.0	7.41583	10.0	1400357.0	0.741583	Y
7	IC 410-336478/9	25.0	18.095562	10.0	1461749.0	0.723822	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

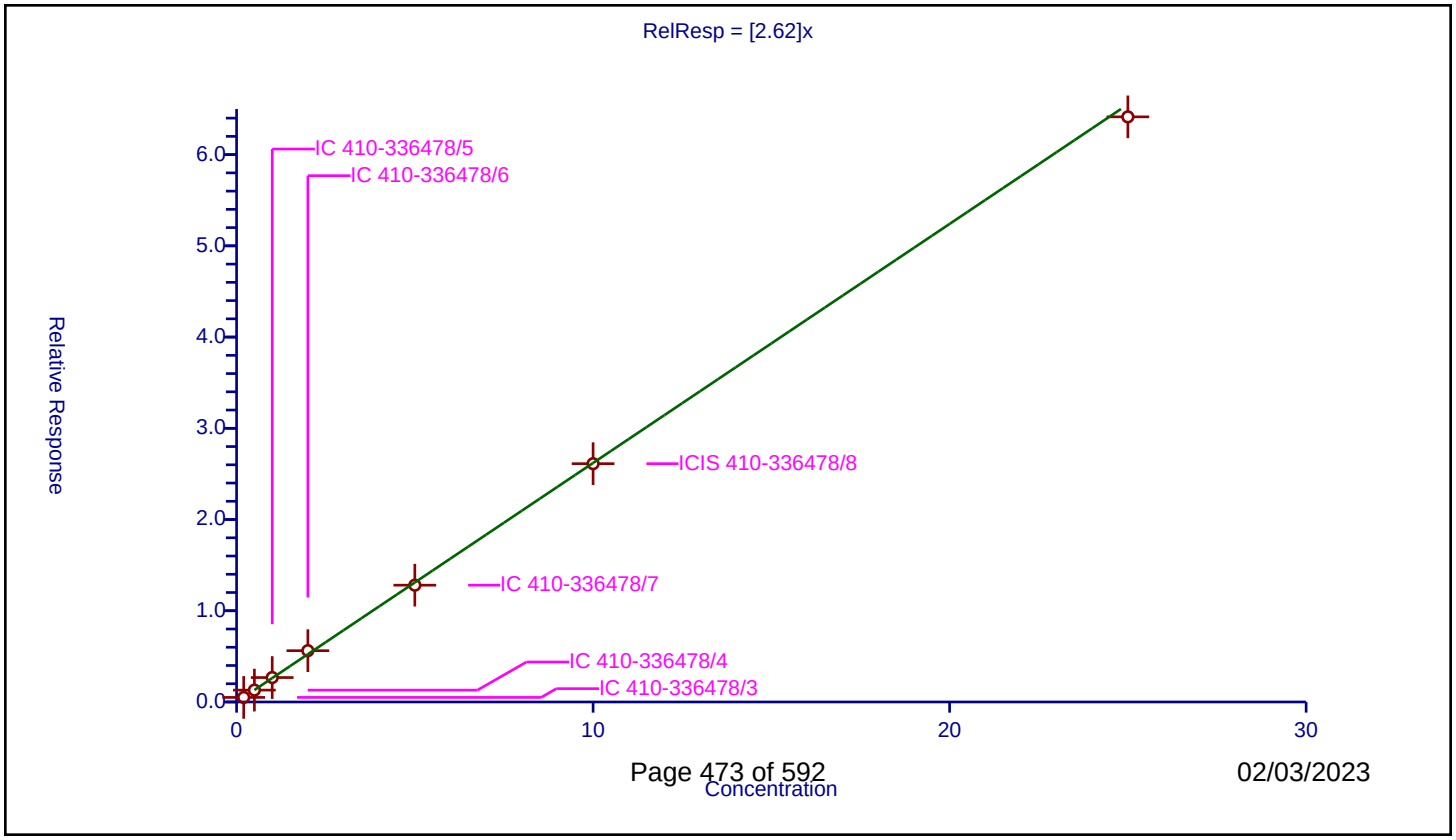
Curve Coefficients

Intercept:	0
Slope:	2.62

Error Coefficients

Standard Error:	4190000
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 410-336478/3	0.2	0.501451	10.0	1272727.0	2.507254	Y
2	IC 410-336478/4	0.5	1.301632	10.0	1314073.0	2.603265	Y
3	IC 410-336478/5	1.0	2.679979	10.0	1290745.0	2.679979	Y
4	IC 410-336478/6	2.0	5.625399	10.0	1319261.0	2.8127	Y
5	IC 410-336478/7	5.0	12.804449	10.0	1391974.0	2.56089	Y
6	ICIS 410-336478/8	10.0	26.12261	10.0	1400357.0	2.612261	Y
7	IC 410-336478/9	25.0	64.139425	10.0	1461749.0	2.565577	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

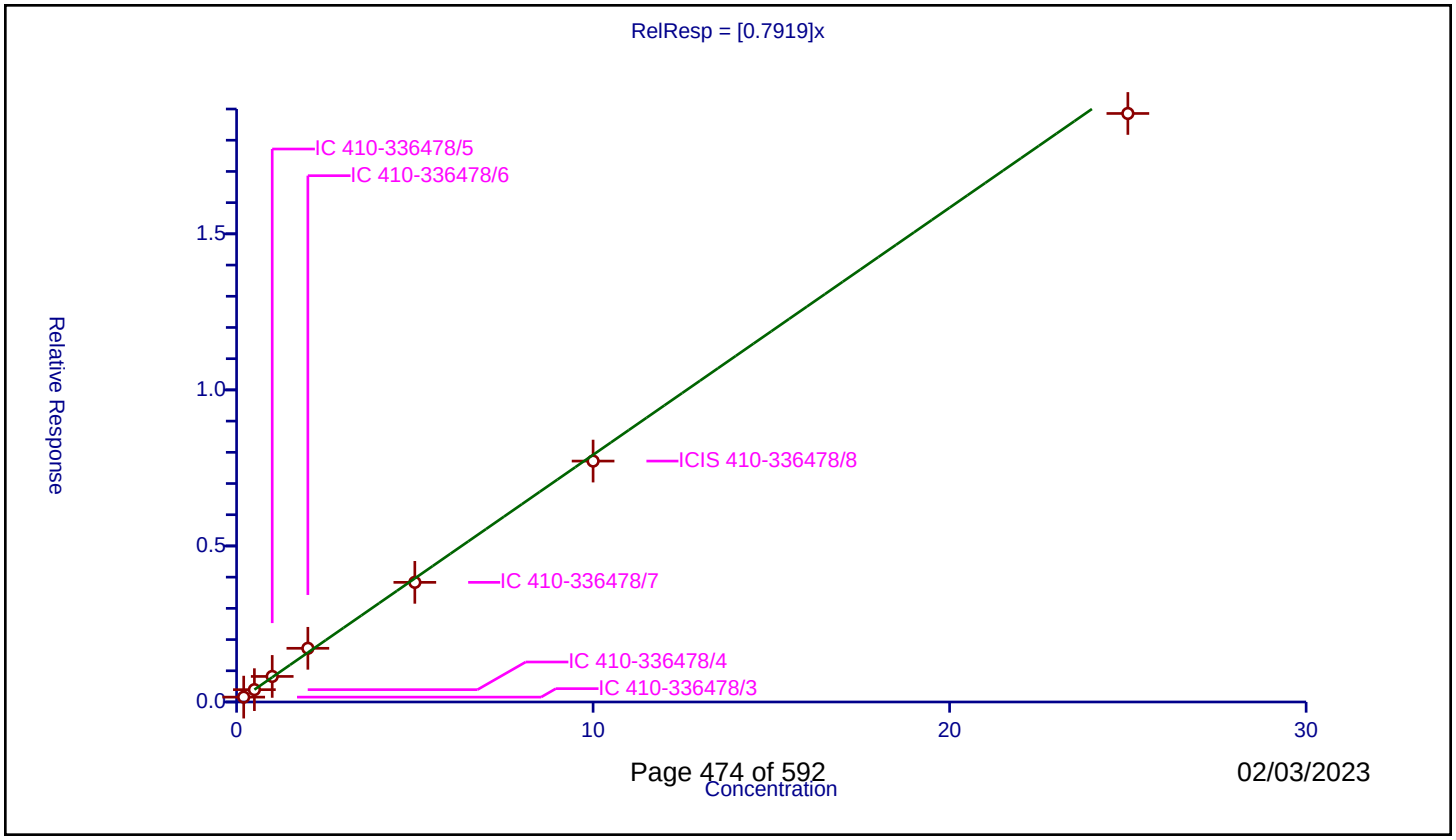
Curve Coefficients

Intercept:	0
Slope:	0.7919

Error Coefficients

Standard Error:	1230000
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 410-336478/3	0.2	0.156294	10.0	1272727.0	0.781472	Y
2	IC 410-336478/4	0.5	0.394917	10.0	1314073.0	0.789834	Y
3	IC 410-336478/5	1.0	0.819124	10.0	1290745.0	0.819124	Y
4	IC 410-336478/6	2.0	1.72041	10.0	1319261.0	0.860205	Y
5	IC 410-336478/7	5.0	3.833297	10.0	1391974.0	0.766659	Y
6	ICIS 410-336478/8	10.0	7.719867	10.0	1400357.0	0.771987	Y
7	IC 410-336478/9	25.0	18.857191	10.0	1461749.0	0.754288	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

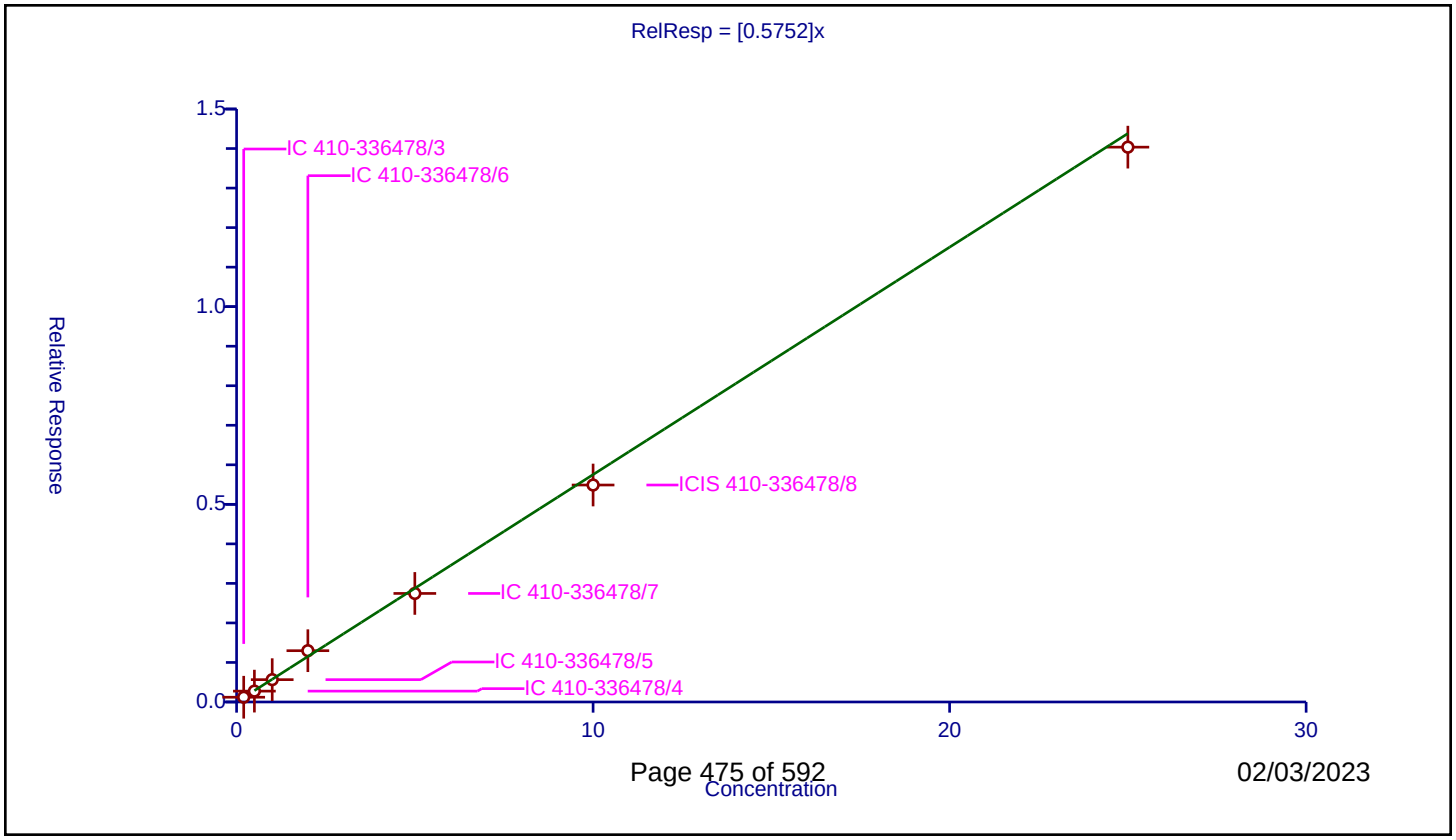
Curve Coefficients

Intercept:	0
Slope:	0.5752

Error Coefficients

Standard Error:	911000
Relative Standard Error:	6.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.120694	10.0	1272727.0	0.603468	Y
2	IC 410-336478/4	0.5	0.275015	10.0	1314073.0	0.55003	Y
3	IC 410-336478/5	1.0	0.56493	10.0	1290745.0	0.56493	Y
4	IC 410-336478/6	2.0	1.297711	10.0	1319261.0	0.648856	Y
5	IC 410-336478/7	5.0	2.745741	10.0	1391974.0	0.549148	Y
6	ICIS 410-336478/8	10.0	5.488615	10.0	1400357.0	0.548861	Y
7	IC 410-336478/9	25.0	14.035105	10.0	1461749.0	0.561404	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

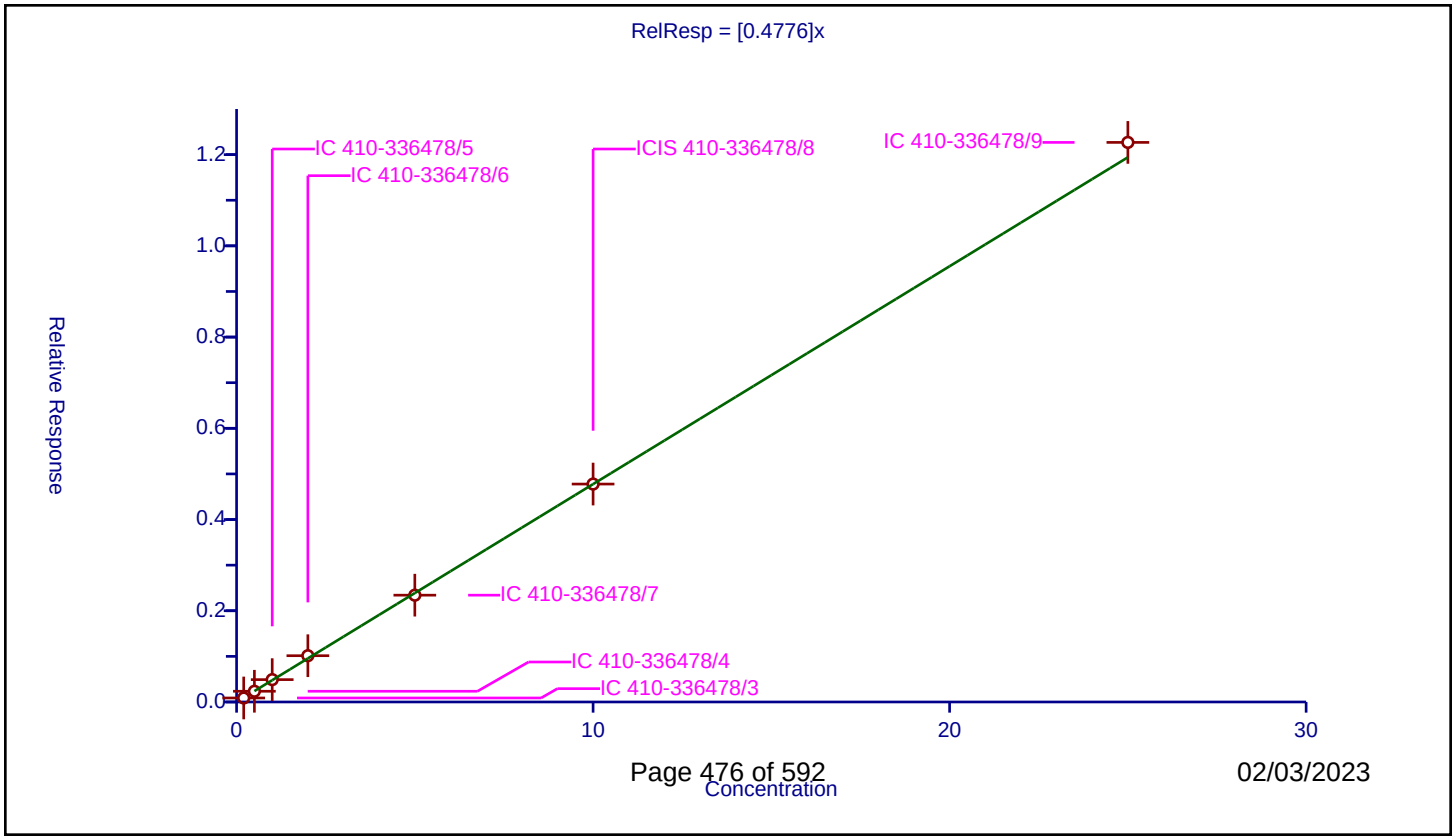
Curve Coefficients

Intercept:	0
Slope:	0.4776

Error Coefficients

Standard Error:	795000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.087851	10.0	1272727.0	0.439254	Y
2	IC 410-336478/4	0.5	0.235055	10.0	1314073.0	0.470111	Y
3	IC 410-336478/5	1.0	0.490081	10.0	1290745.0	0.490081	Y
4	IC 410-336478/6	2.0	1.014416	10.0	1319261.0	0.507208	Y
5	IC 410-336478/7	5.0	2.341624	10.0	1391974.0	0.468325	Y
6	ICIS 410-336478/8	10.0	4.778074	10.0	1400357.0	0.477807	Y
7	IC 410-336478/9	25.0	12.267989	10.0	1461749.0	0.49072	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

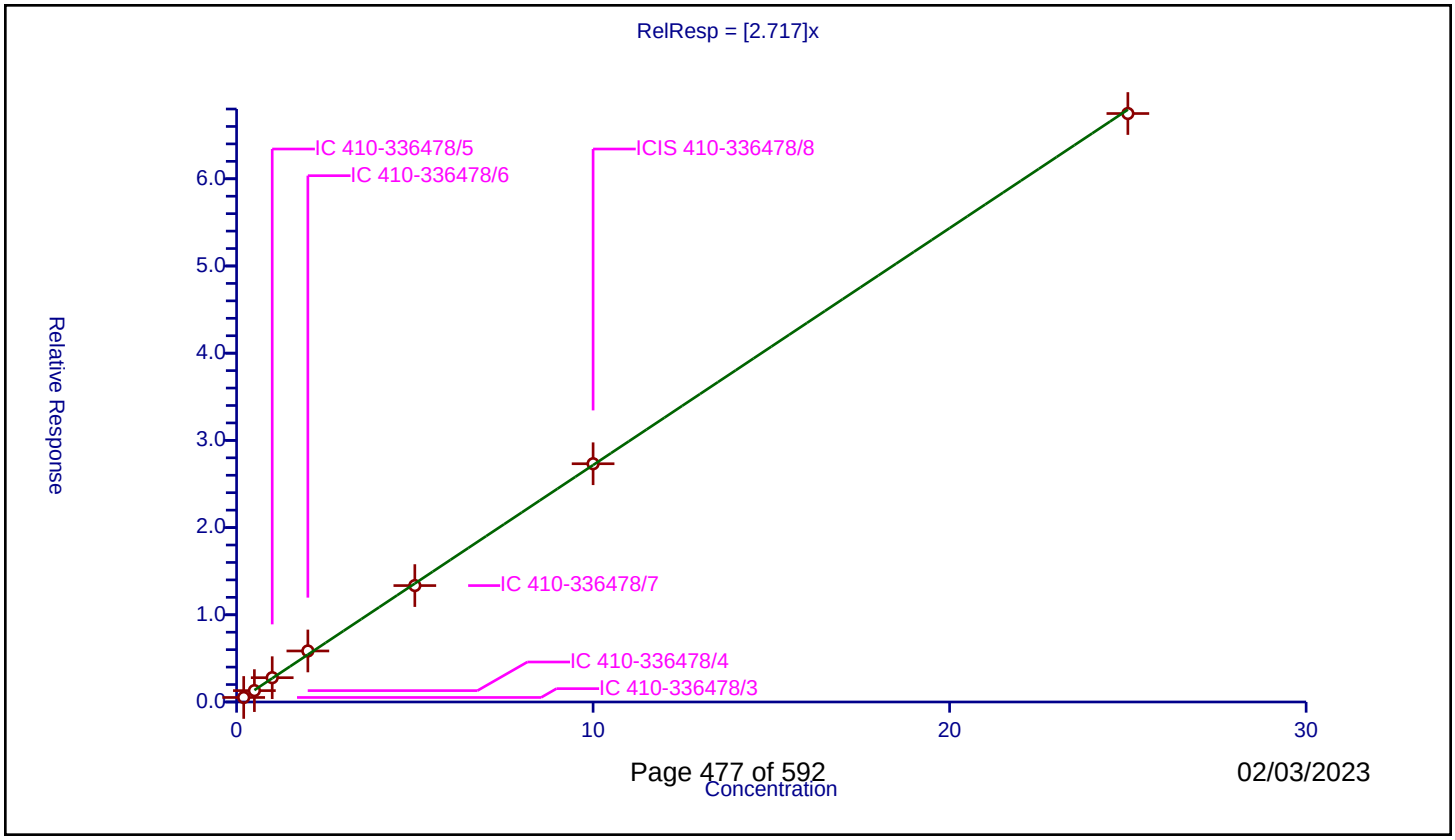
Curve Coefficients

Intercept:	0
Slope:	2.717

Error Coefficients

Standard Error:	4400000
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 410-336478/3	0.2	0.519373	10.0	1272727.0	2.596865	Y
2	IC 410-336478/4	0.5	1.304418	10.0	1314073.0	2.608835	Y
3	IC 410-336478/5	1.0	2.786445	10.0	1290745.0	2.786445	Y
4	IC 410-336478/6	2.0	5.851496	10.0	1319261.0	2.925748	Y
5	IC 410-336478/7	5.0	13.349021	10.0	1391974.0	2.669804	Y
6	ICIS 410-336478/8	10.0	27.321726	10.0	1400357.0	2.732173	Y
7	IC 410-336478/9	25.0	67.483111	10.0	1461749.0	2.699324	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

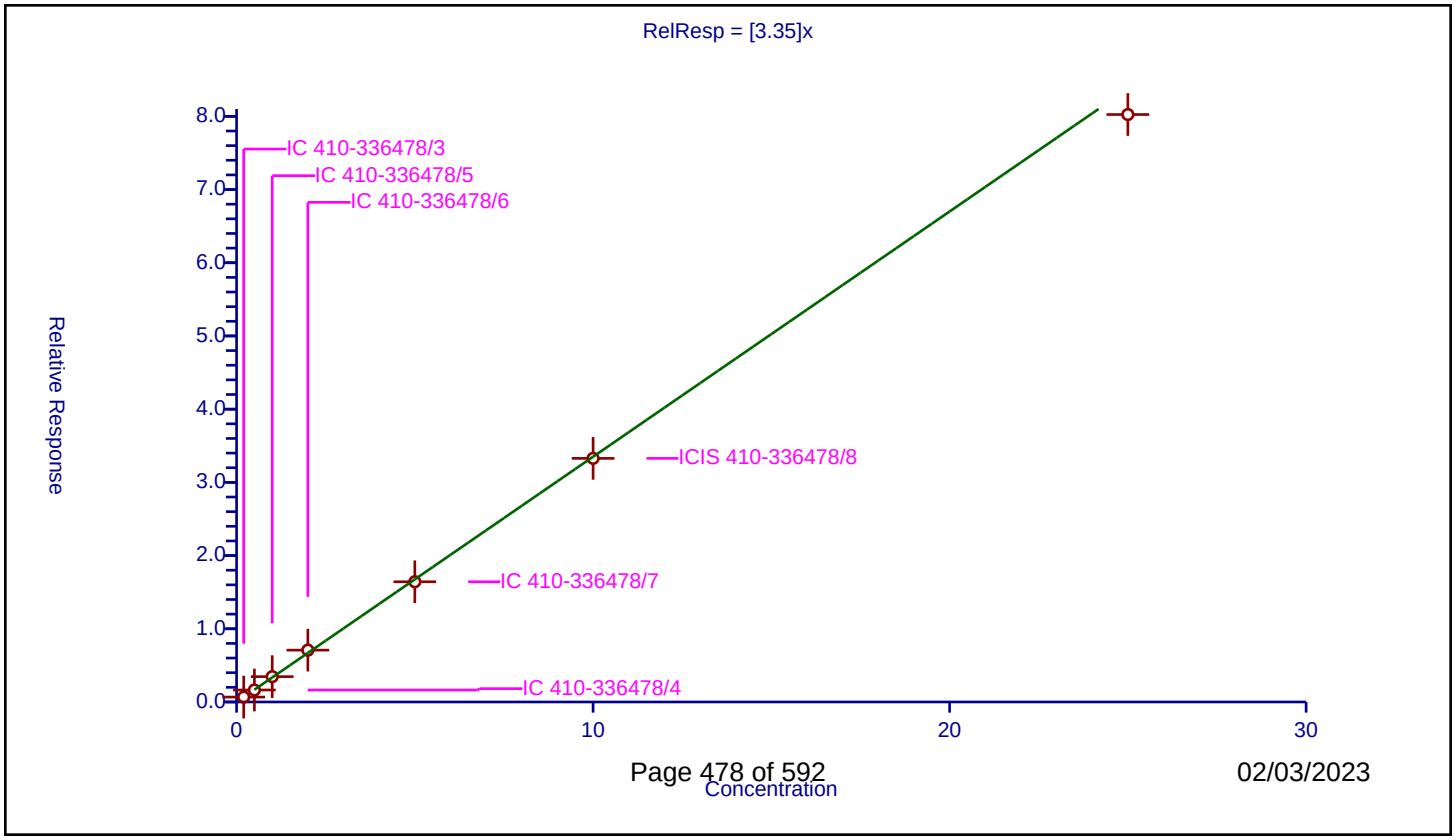
Curve Coefficients

Intercept:	0
Slope:	3.35

Error Coefficients

Standard Error:	5250000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.670379	10.0	1272727.0	3.351897	Y
2	IC 410-336478/4	0.5	1.636705	10.0	1314073.0	3.27341	Y
3	IC 410-336478/5	1.0	3.461187	10.0	1290745.0	3.461187	Y
4	IC 410-336478/6	2.0	7.083413	10.0	1319261.0	3.541706	Y
5	IC 410-336478/7	5.0	16.422562	10.0	1391974.0	3.284512	Y
6	ICIS 410-336478/8	10.0	33.278585	10.0	1400357.0	3.327859	Y
7	IC 410-336478/9	25.0	80.246766	10.0	1461749.0	3.209871	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

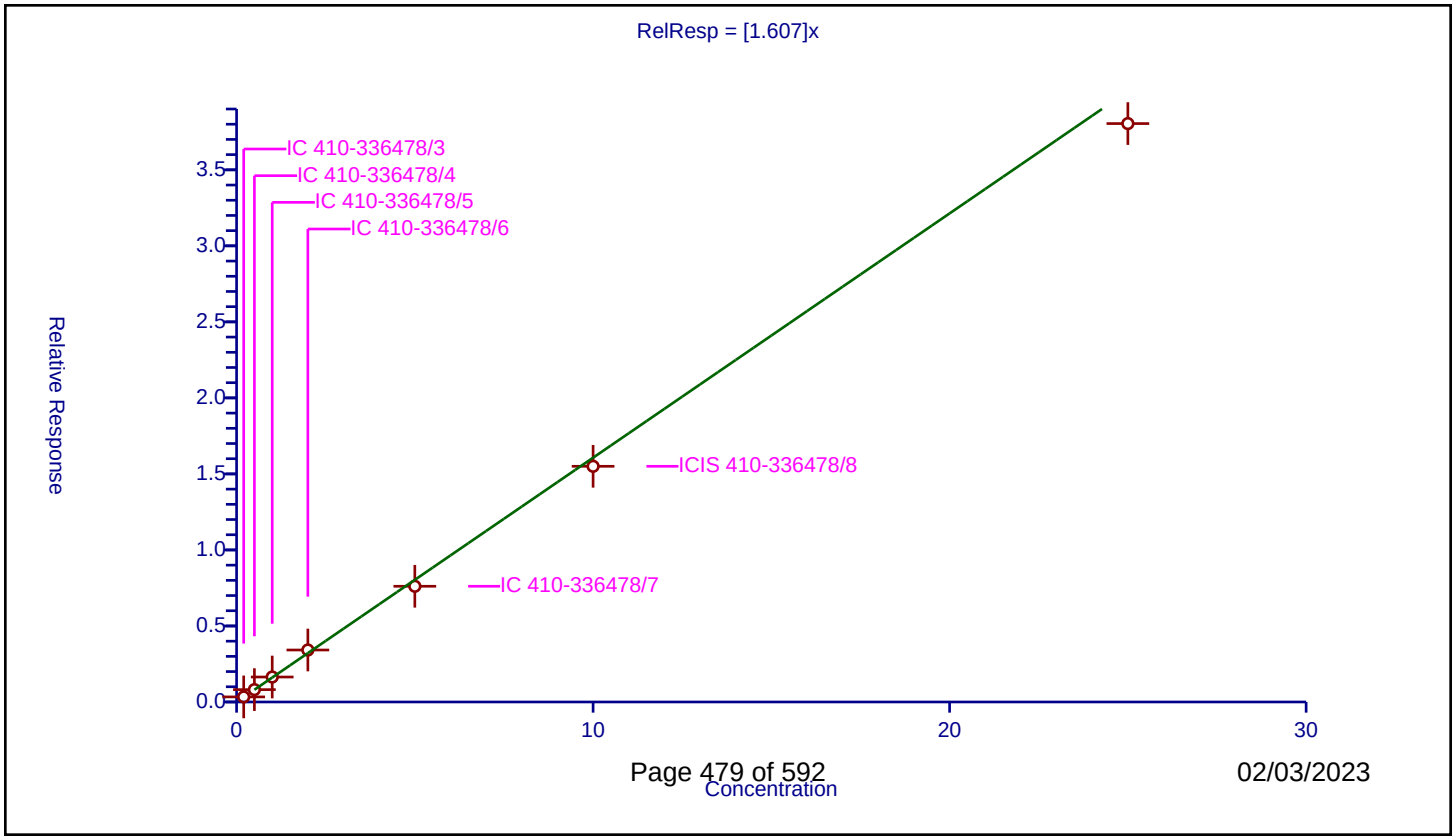
Curve Coefficients

Intercept:	0
Slope:	1.607

Error Coefficients

Standard Error:	2480000
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 410-336478/3	0.2	0.334612	10.0	1272727.0	1.673061	Y
2	IC 410-336478/4	0.5	0.813395	10.0	1314073.0	1.626789	Y
3	IC 410-336478/5	1.0	1.642904	10.0	1290745.0	1.642904	Y
4	IC 410-336478/6	2.0	3.419862	10.0	1319261.0	1.709931	Y
5	IC 410-336478/7	5.0	7.610817	10.0	1391974.0	1.522163	Y
6	ICIS 410-336478/8	10.0	15.500897	10.0	1400357.0	1.55009	Y
7	IC 410-336478/9	25.0	38.04175	10.0	1461749.0	1.52167	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

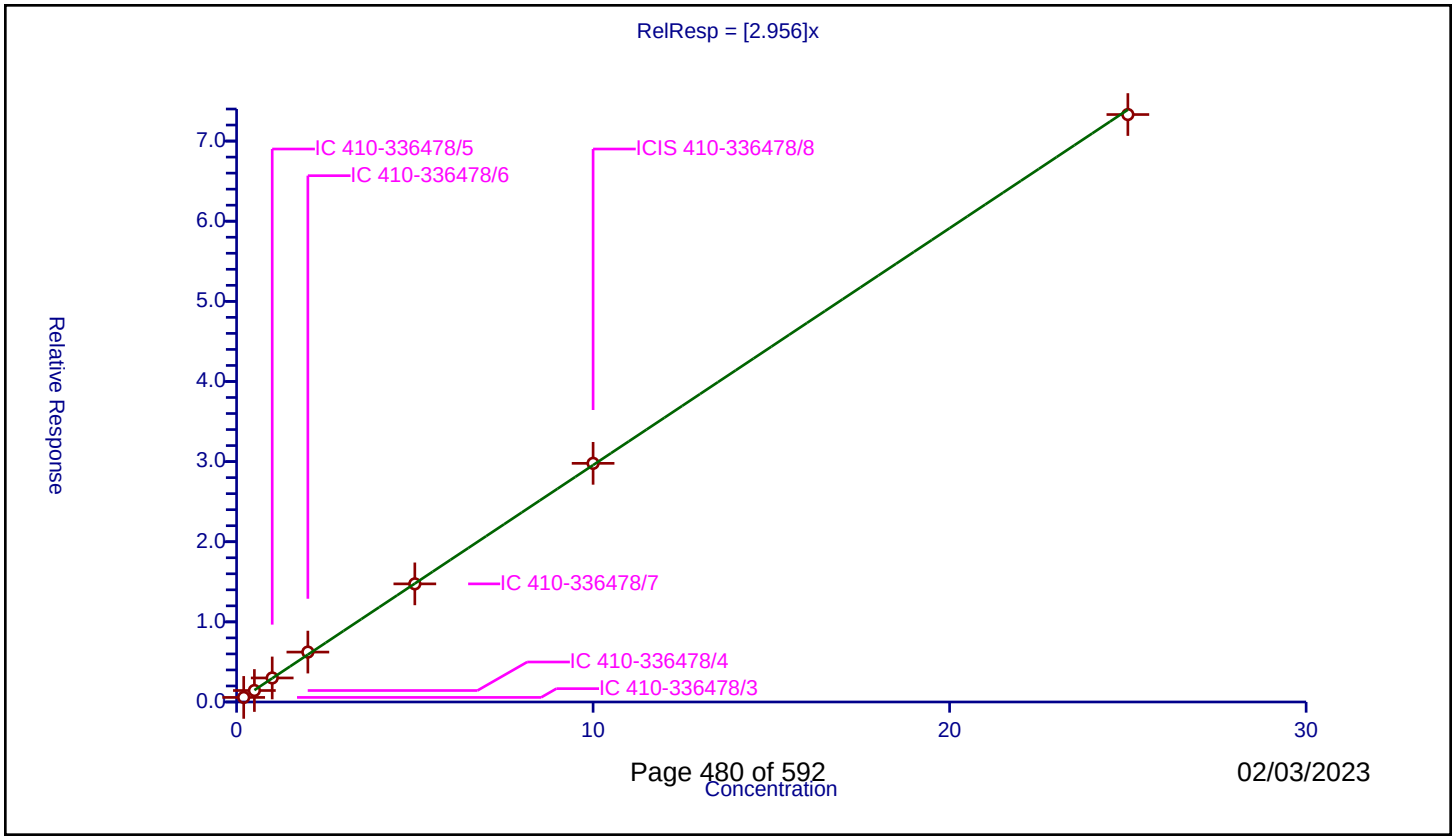
Curve Coefficients

Intercept:	0
Slope:	2.956

Error Coefficients

Standard Error:	4780000
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 410-336478/3	0.2	0.571796	10.0	1272727.0	2.858979	Y
2	IC 410-336478/4	0.5	1.431762	10.0	1314073.0	2.863524	Y
3	IC 410-336478/5	1.0	2.999392	10.0	1290745.0	2.999392	Y
4	IC 410-336478/6	2.0	6.228608	10.0	1319261.0	3.114304	Y
5	IC 410-336478/7	5.0	14.741015	10.0	1391974.0	2.948203	Y
6	ICIS 410-336478/8	10.0	29.783341	10.0	1400357.0	2.978334	Y
7	IC 410-336478/9	25.0	73.309658	10.0	1461749.0	2.932386	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

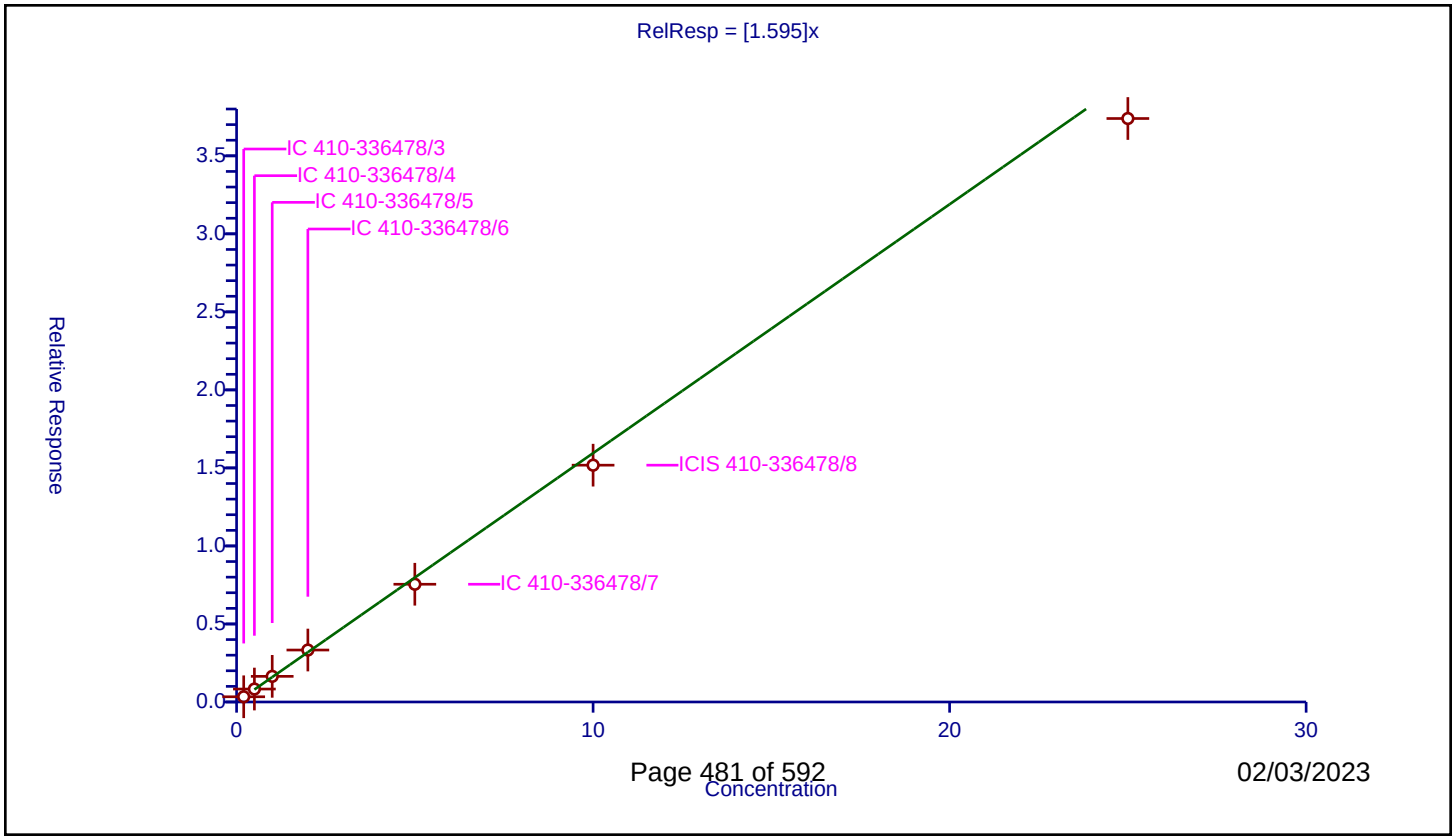
Curve Coefficients

Intercept:	0
Slope:	1.595

Error Coefficients

Standard Error:	2440000
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 410-336478/3	0.2	0.334785	10.0	1272727.0	1.673925	Y
2	IC 410-336478/4	0.5	0.829185	10.0	1314073.0	1.658371	Y
3	IC 410-336478/5	1.0	1.643338	10.0	1290745.0	1.643338	Y
4	IC 410-336478/6	2.0	3.330364	10.0	1319261.0	1.665182	Y
5	IC 410-336478/7	5.0	7.544904	10.0	1391974.0	1.508981	Y
6	ICIS 410-336478/8	10.0	15.175259	10.0	1400357.0	1.517526	Y
7	IC 410-336478/9	25.0	37.391036	10.0	1461749.0	1.495641	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

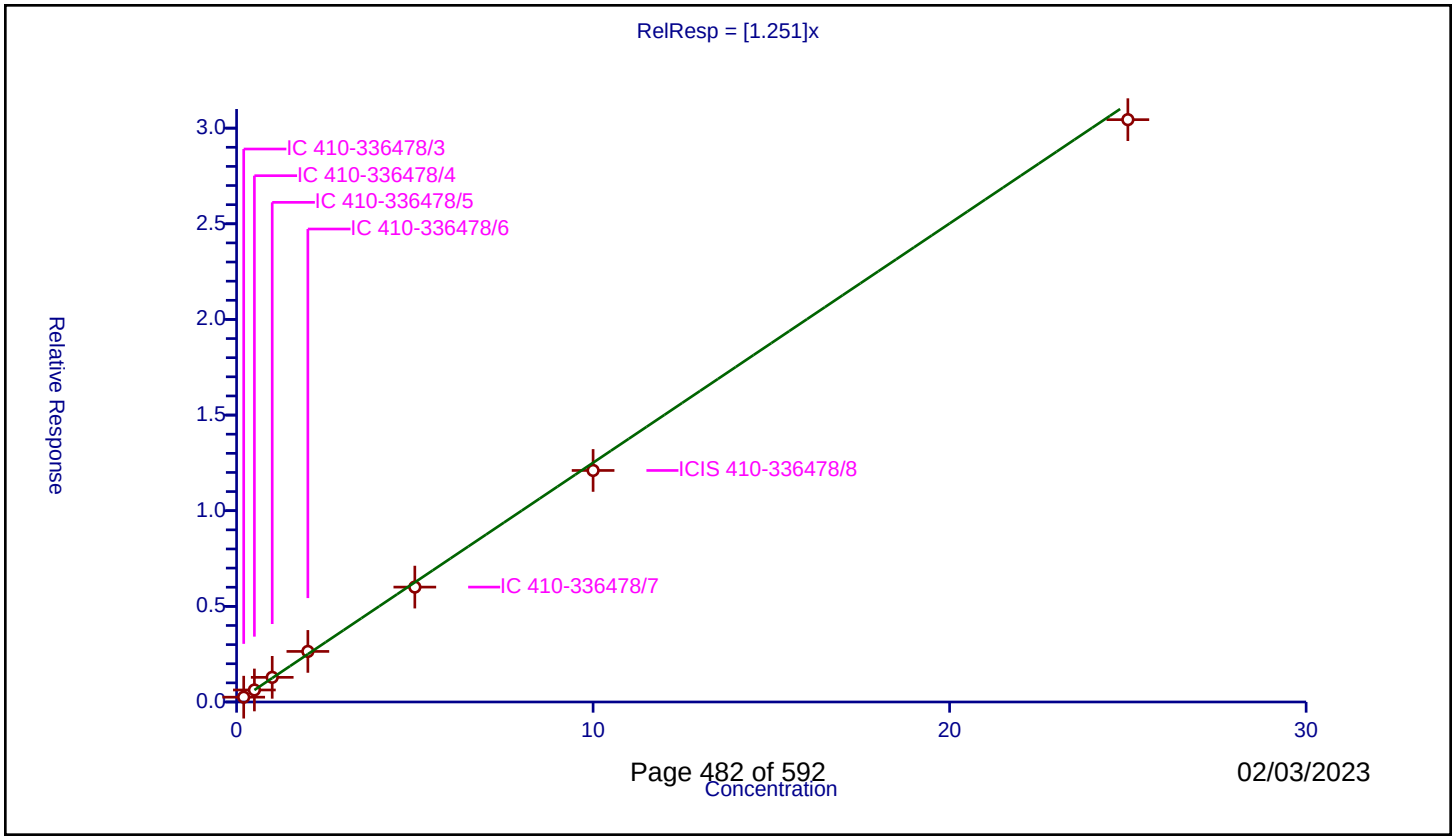
Curve Coefficients

Intercept:	0
Slope:	1.251

Error Coefficients

Standard Error:	1980000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.251971	10.0	1272727.0	1.259854	Y
2	IC 410-336478/4	0.5	0.627773	10.0	1314073.0	1.255547	Y
3	IC 410-336478/5	1.0	1.289488	10.0	1290745.0	1.289488	Y
4	IC 410-336478/6	2.0	2.643245	10.0	1319261.0	1.321622	Y
5	IC 410-336478/7	5.0	6.005917	10.0	1391974.0	1.201183	Y
6	ICIS 410-336478/8	10.0	12.10487	10.0	1400357.0	1.210487	Y
7	IC 410-336478/9	25.0	30.444064	10.0	1461749.0	1.217763	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

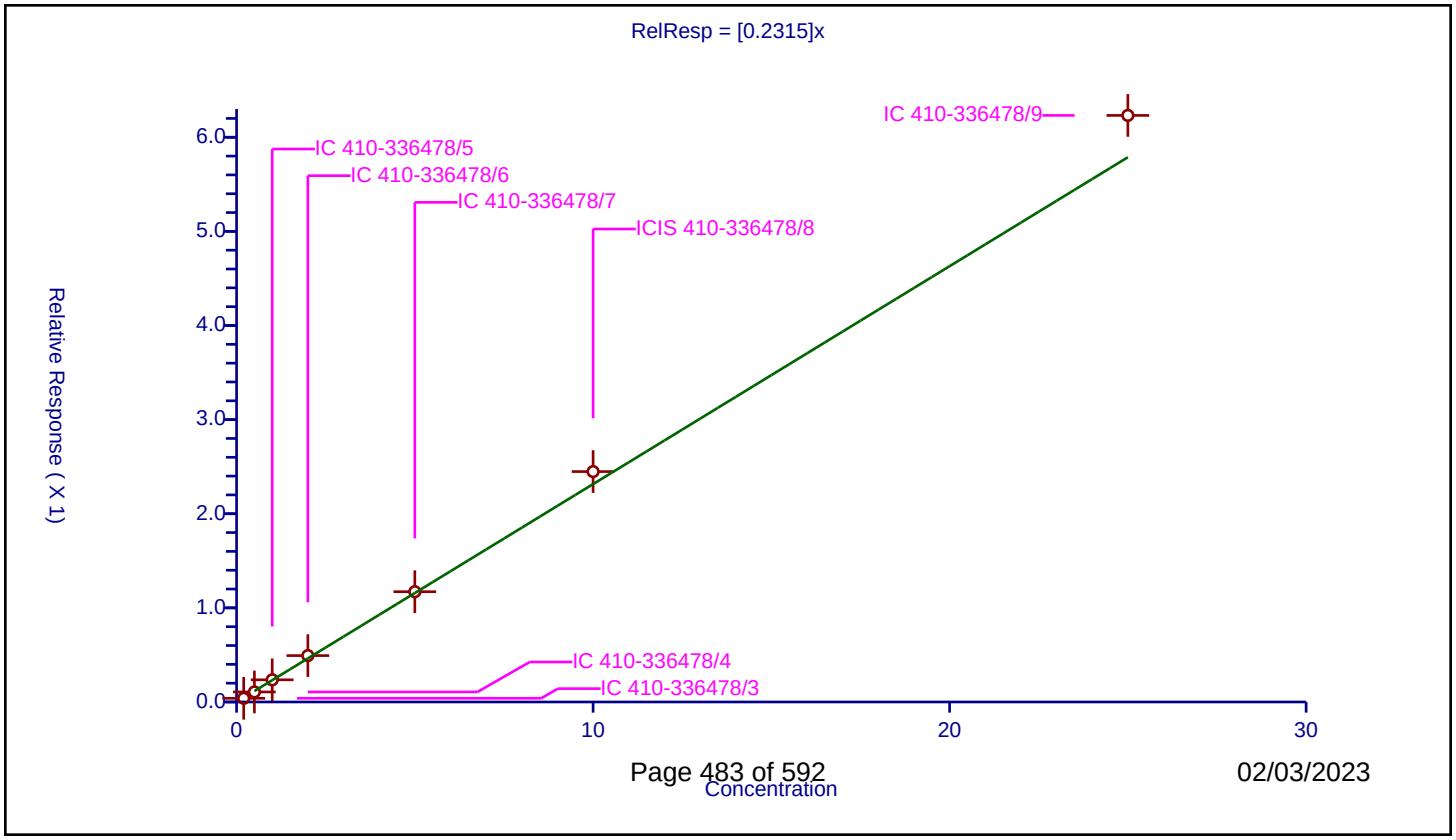
Curve Coefficients

Intercept:	0
Slope:	0.2315

Error Coefficients

Standard Error:	404000
Relative Standard Error:	8.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.03938	10.0	1272727.0	0.1969	Y
2	IC 410-336478/4	0.5	0.106577	10.0	1314073.0	0.213154	Y
3	IC 410-336478/5	1.0	0.235562	10.0	1290745.0	0.235562	Y
4	IC 410-336478/6	2.0	0.492958	10.0	1319261.0	0.246479	Y
5	IC 410-336478/7	5.0	1.171796	10.0	1391974.0	0.234359	Y
6	ICIS 410-336478/8	10.0	2.447897	10.0	1400357.0	0.24479	Y
7	IC 410-336478/9	25.0	6.231904	10.0	1461749.0	0.249276	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

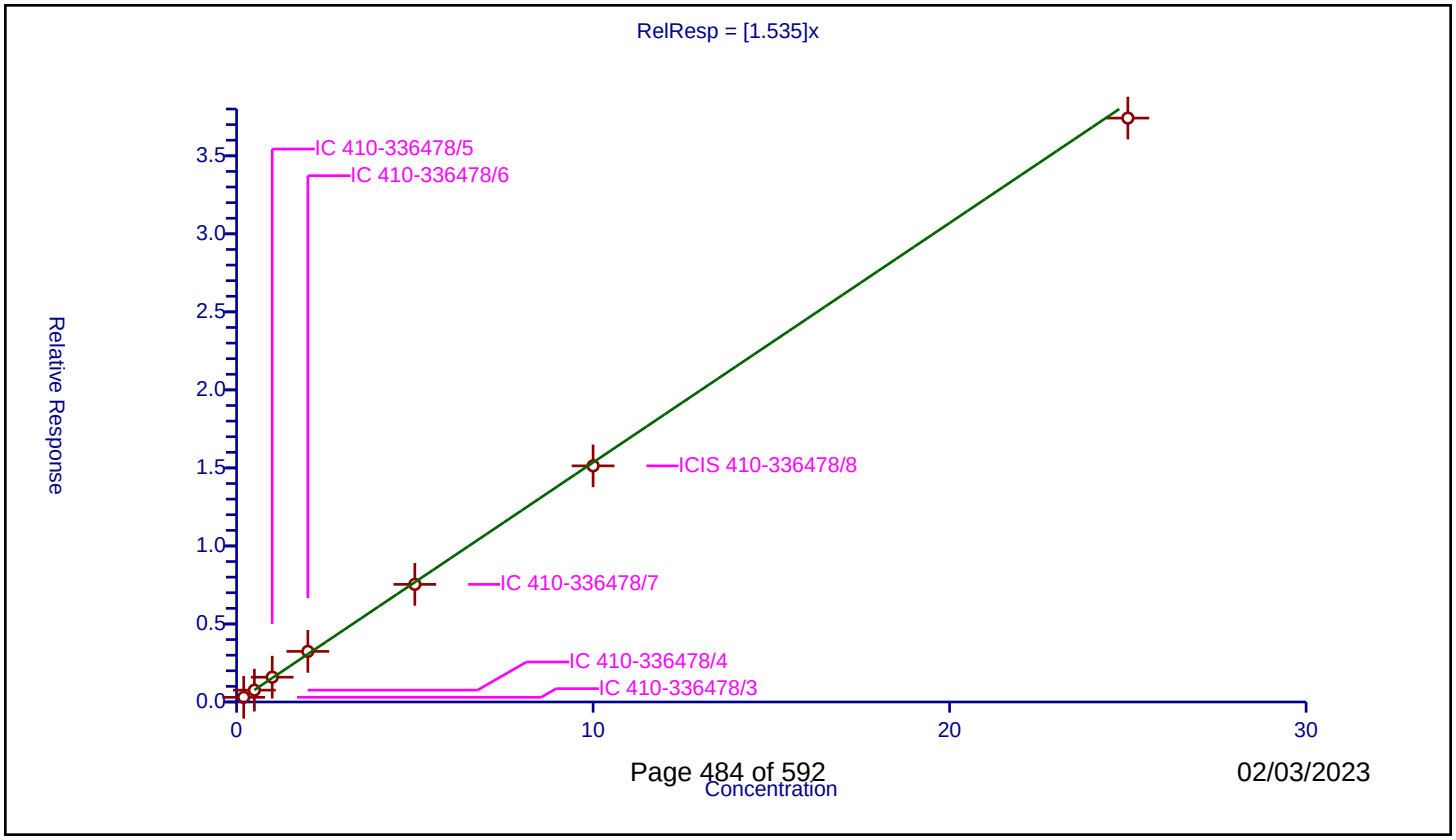
Curve Coefficients

Intercept:	0
Slope:	1.535

Error Coefficients

Standard Error:	2440000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.299389	10.0	1272727.0	1.496943	Y
2	IC 410-336478/4	0.5	0.760049	10.0	1314073.0	1.520098	Y
3	IC 410-336478/5	1.0	1.588122	10.0	1290745.0	1.588122	Y
4	IC 410-336478/6	2.0	3.24208	10.0	1319261.0	1.62104	Y
5	IC 410-336478/7	5.0	7.537842	10.0	1391974.0	1.507568	Y
6	ICIS 410-336478/8	10.0	15.130742	10.0	1400357.0	1.513074	Y
7	IC 410-336478/9	25.0	37.419591	10.0	1461749.0	1.496784	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

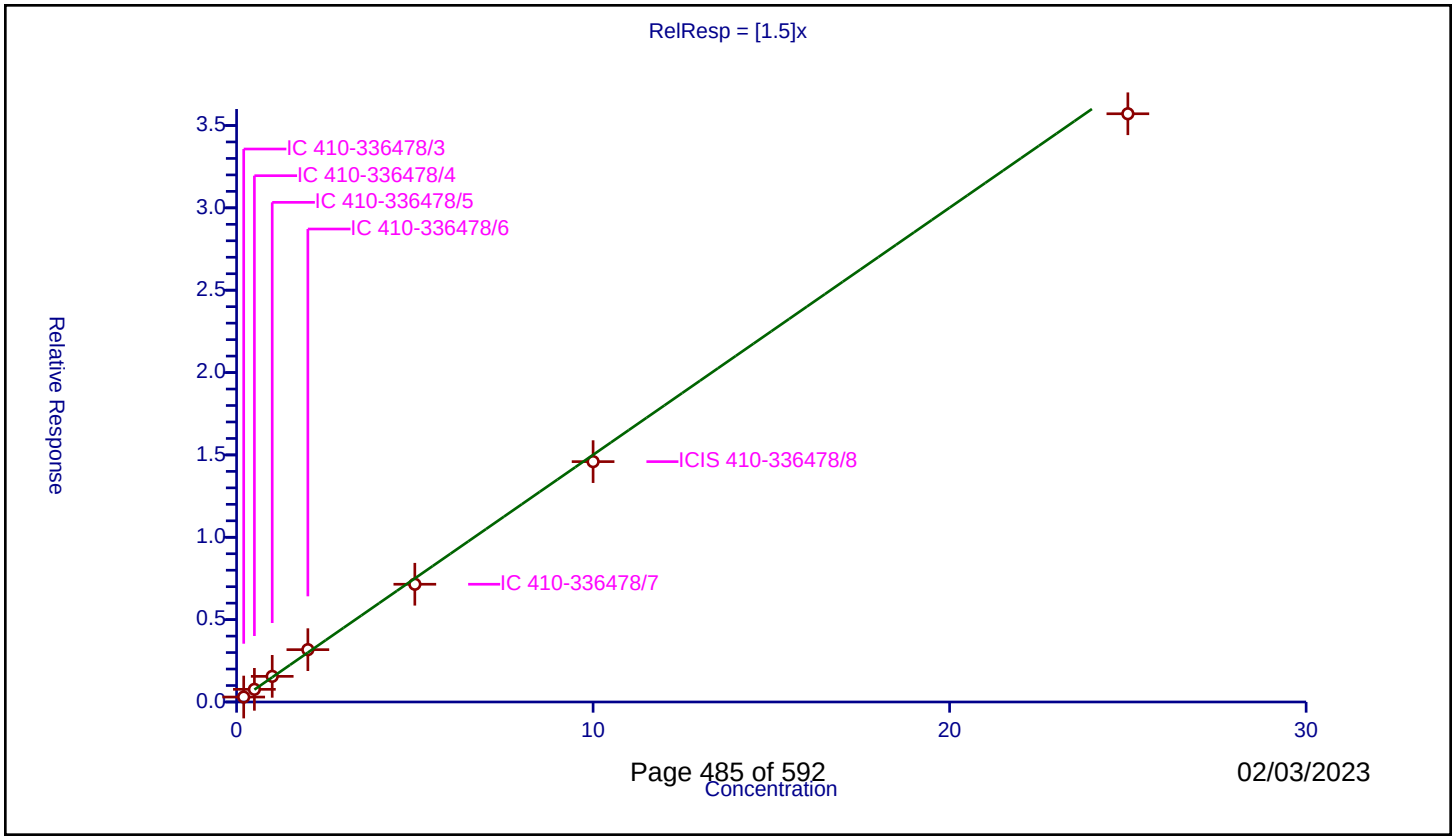
Curve Coefficients

Intercept:	0
Slope:	1.5

Error Coefficients

Standard Error:	2330000
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 410-336478/3	0.2	0.300881	10.0	1272727.0	1.504407	Y
2	IC 410-336478/4	0.5	0.767849	10.0	1314073.0	1.535699	Y
3	IC 410-336478/5	1.0	1.557085	10.0	1290745.0	1.557085	Y
4	IC 410-336478/6	2.0	3.177423	10.0	1319261.0	1.588711	Y
5	IC 410-336478/7	5.0	7.149092	10.0	1391974.0	1.429818	Y
6	ICIS 410-336478/8	10.0	14.592743	10.0	1400357.0	1.459274	Y
7	IC 410-336478/9	25.0	35.711117	10.0	1461749.0	1.428445	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

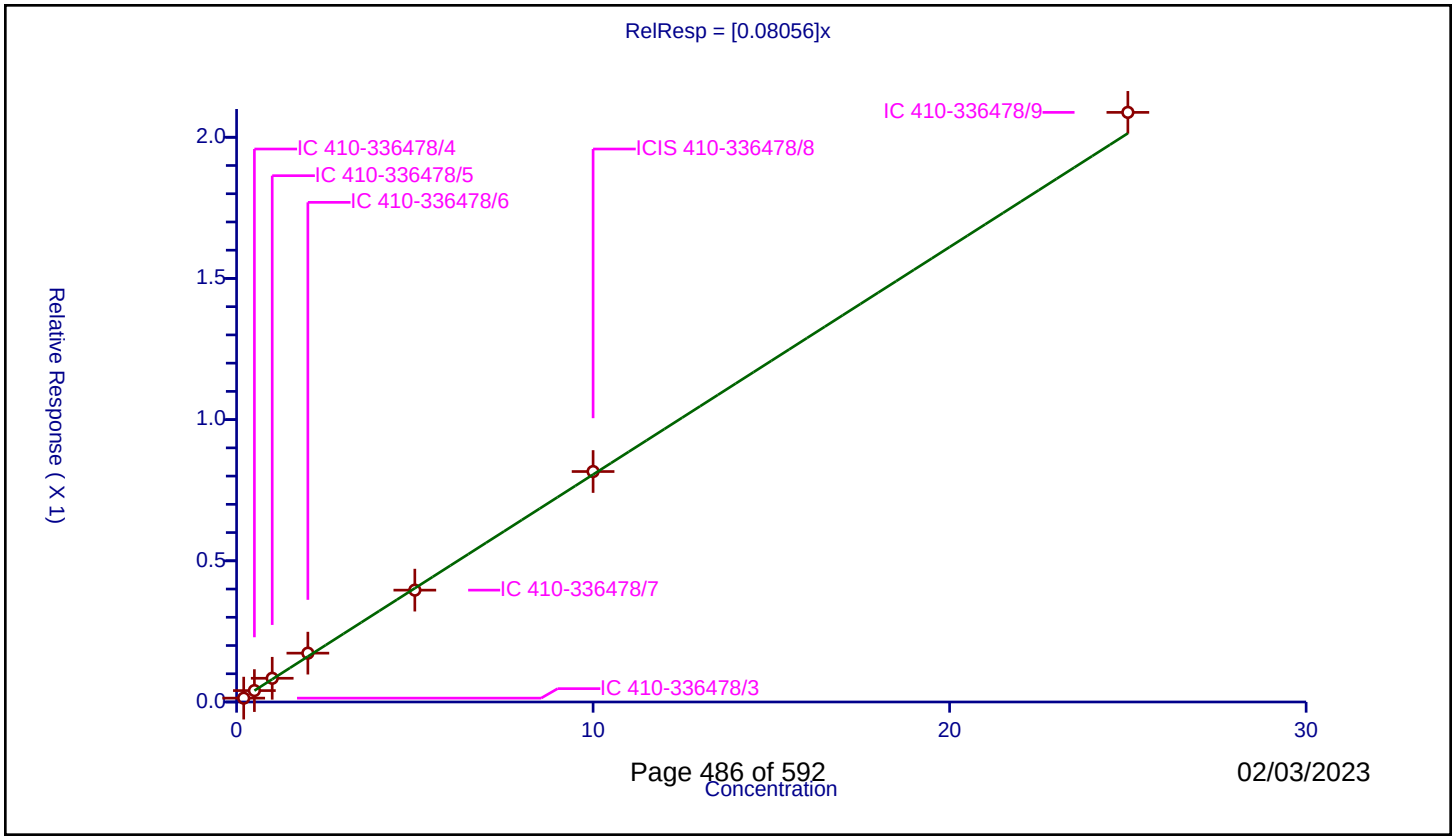
Curve Coefficients

Intercept:	0
Slope:	0.08056

Error Coefficients

Standard Error:	135000
Relative Standard Error:	7.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.013648	10.0	1272727.0	0.068239	Y
2	IC 410-336478/4	0.5	0.040401	10.0	1314073.0	0.080802	Y
3	IC 410-336478/5	1.0	0.084006	10.0	1290745.0	0.084006	Y
4	IC 410-336478/6	2.0	0.172945	10.0	1319261.0	0.086473	Y
5	IC 410-336478/7	5.0	0.396157	10.0	1391974.0	0.079231	Y
6	ICIS 410-336478/8	10.0	0.816235	10.0	1400357.0	0.081623	Y
7	IC 410-336478/9	25.0	2.088108	10.0	1461749.0	0.083524	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

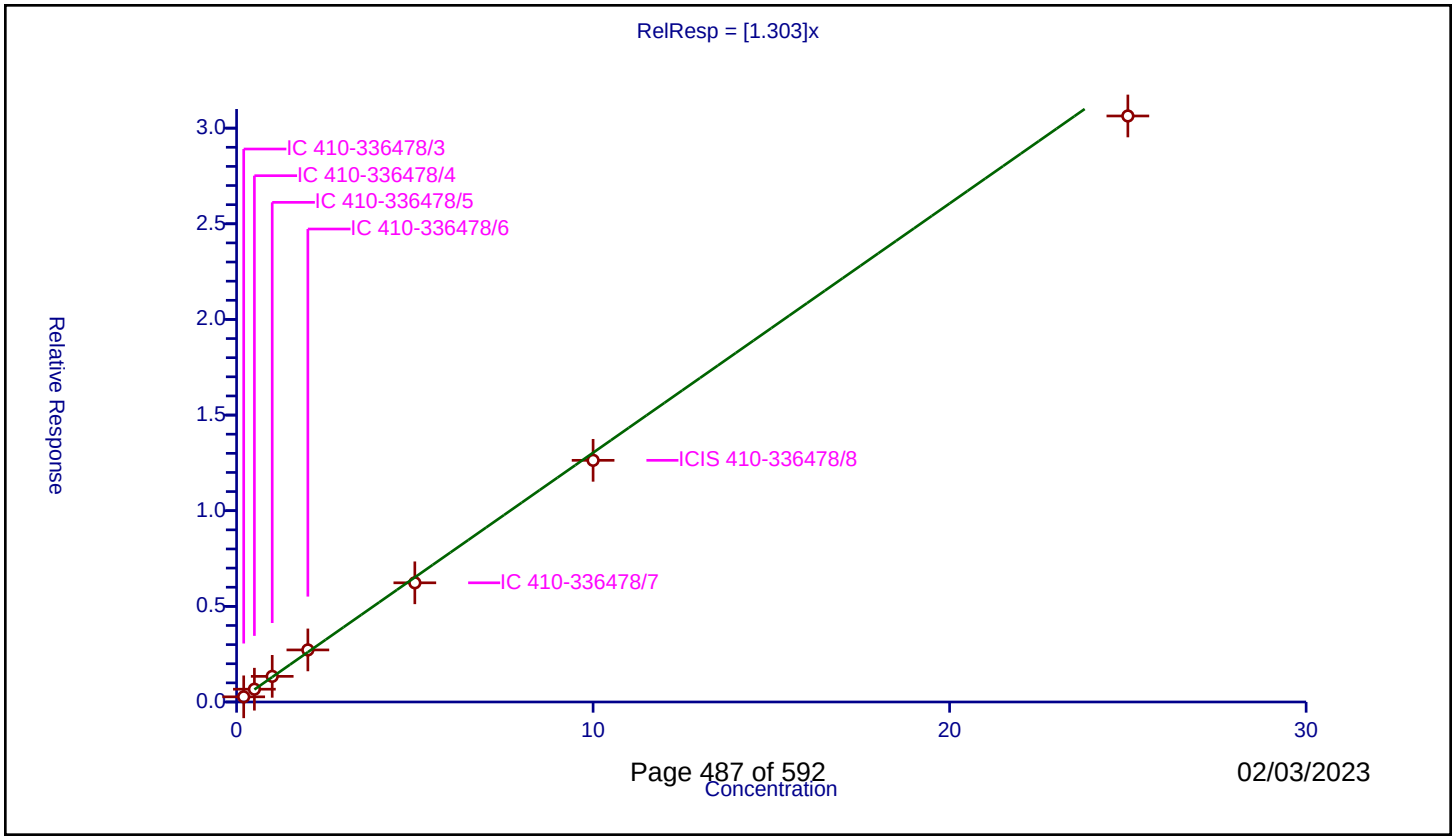
Curve Coefficients

Intercept:	0
Slope:	1.303

Error Coefficients

Standard Error:	2000000
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 410-336478/3	0.2	0.269547	10.0	1272727.0	1.347736	Y
2	IC 410-336478/4	0.5	0.668555	10.0	1314073.0	1.33711	Y
3	IC 410-336478/5	1.0	1.34066	10.0	1290745.0	1.34066	Y
4	IC 410-336478/6	2.0	2.722464	10.0	1319261.0	1.361232	Y
5	IC 410-336478/7	5.0	6.231093	10.0	1391974.0	1.246219	Y
6	ICIS 410-336478/8	10.0	12.633993	10.0	1400357.0	1.263399	Y
7	IC 410-336478/9	25.0	30.636682	10.0	1461749.0	1.225467	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

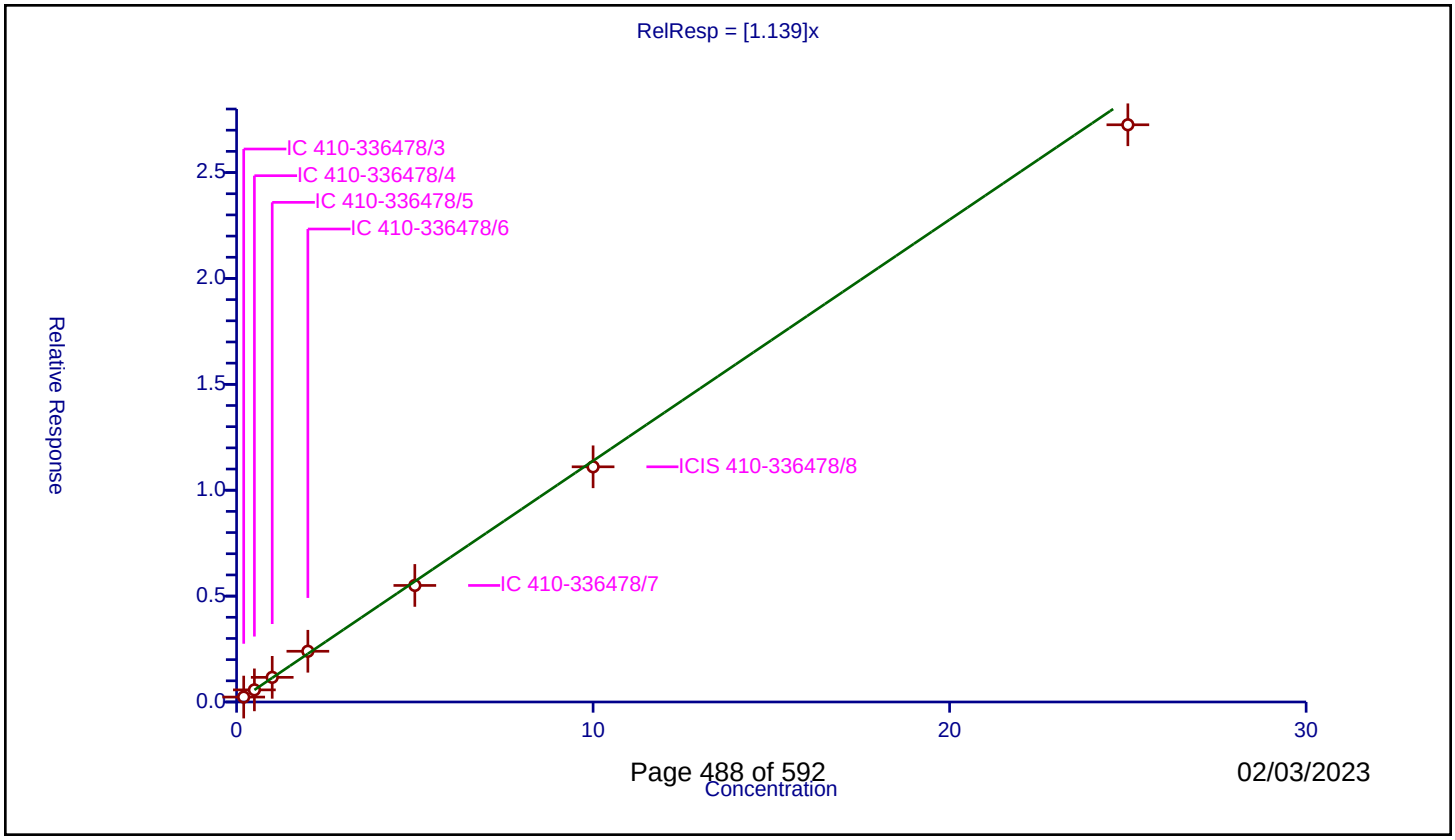
Curve Coefficients

Intercept:	0
Slope:	1.139

Error Coefficients

Standard Error:	1780000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.232674	10.0	1272727.0	1.163368	Y
2	IC 410-336478/4	0.5	0.572624	10.0	1314073.0	1.145248	Y
3	IC 410-336478/5	1.0	1.163553	10.0	1290745.0	1.163553	Y
4	IC 410-336478/6	2.0	2.395758	10.0	1319261.0	1.197879	Y
5	IC 410-336478/7	5.0	5.503415	10.0	1391974.0	1.100683	Y
6	ICIS 410-336478/8	10.0	11.104797	10.0	1400357.0	1.11048	Y
7	IC 410-336478/9	25.0	27.255206	10.0	1461749.0	1.090208	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

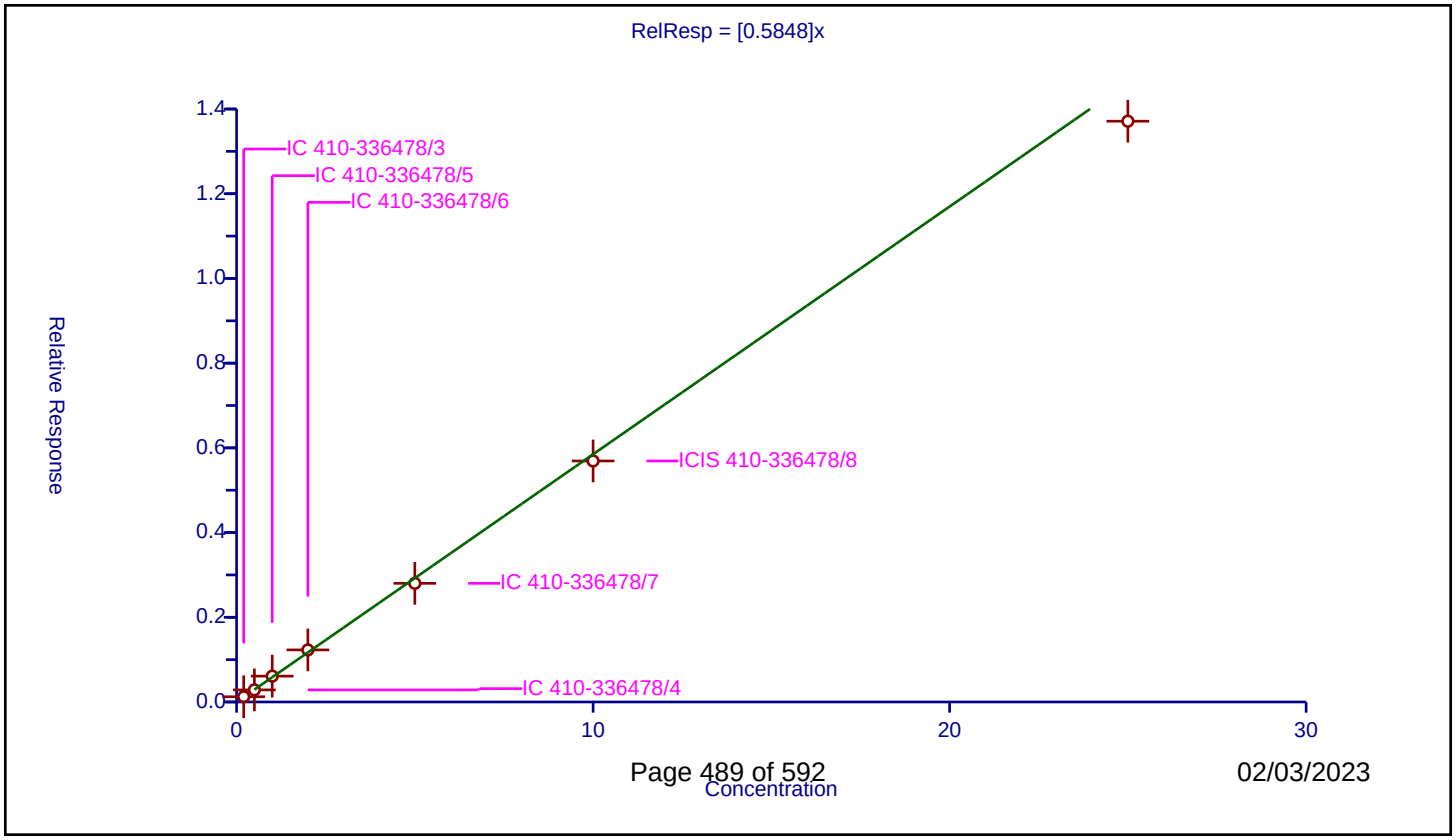
Curve Coefficients

Intercept:	0
Slope:	0.5848

Error Coefficients

Standard Error:	898000
Relative Standard Error:	5.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-336478/3	0.2	0.123962	10.0	1272727.0	0.619811	Y
2	IC 410-336478/4	0.5	0.285707	10.0	1314073.0	0.571414	Y
3	IC 410-336478/5	1.0	0.610244	10.0	1290745.0	0.610244	Y
4	IC 410-336478/6	2.0	1.22912	10.0	1319261.0	0.61456	Y
5	IC 410-336478/7	5.0	2.801288	10.0	1391974.0	0.560258	Y
6	ICIS 410-336478/8	10.0	5.690463	10.0	1400357.0	0.569046	Y
7	IC 410-336478/9	25.0	13.712553	10.0	1461749.0	0.548502	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

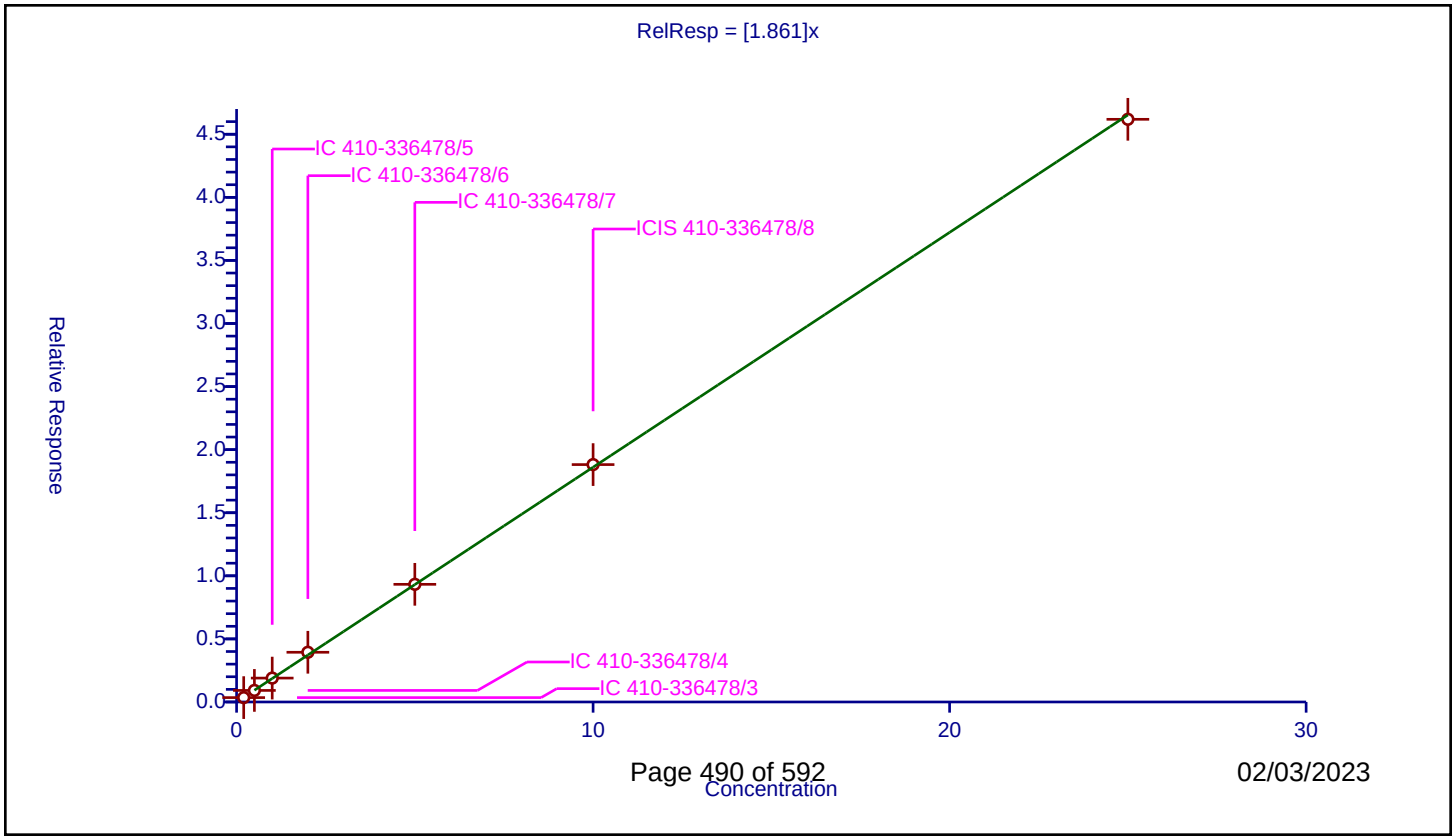
Curve Coefficients

Intercept:	0
Slope:	1.861

Error Coefficients

Standard Error:	3020000
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 410-336478/3	0.2	0.346642	10.0	1272727.0	1.733208	Y
2	IC 410-336478/4	0.5	0.91727	10.0	1314073.0	1.83454	Y
3	IC 410-336478/5	1.0	1.894379	10.0	1290745.0	1.894379	Y
4	IC 410-336478/6	2.0	3.940714	10.0	1319261.0	1.970357	Y
5	IC 410-336478/7	5.0	9.325677	10.0	1391974.0	1.865135	Y
6	ICIS 410-336478/8	10.0	18.81708	10.0	1400357.0	1.881708	Y
7	IC 410-336478/9	25.0	46.184578	10.0	1461749.0	1.847383	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

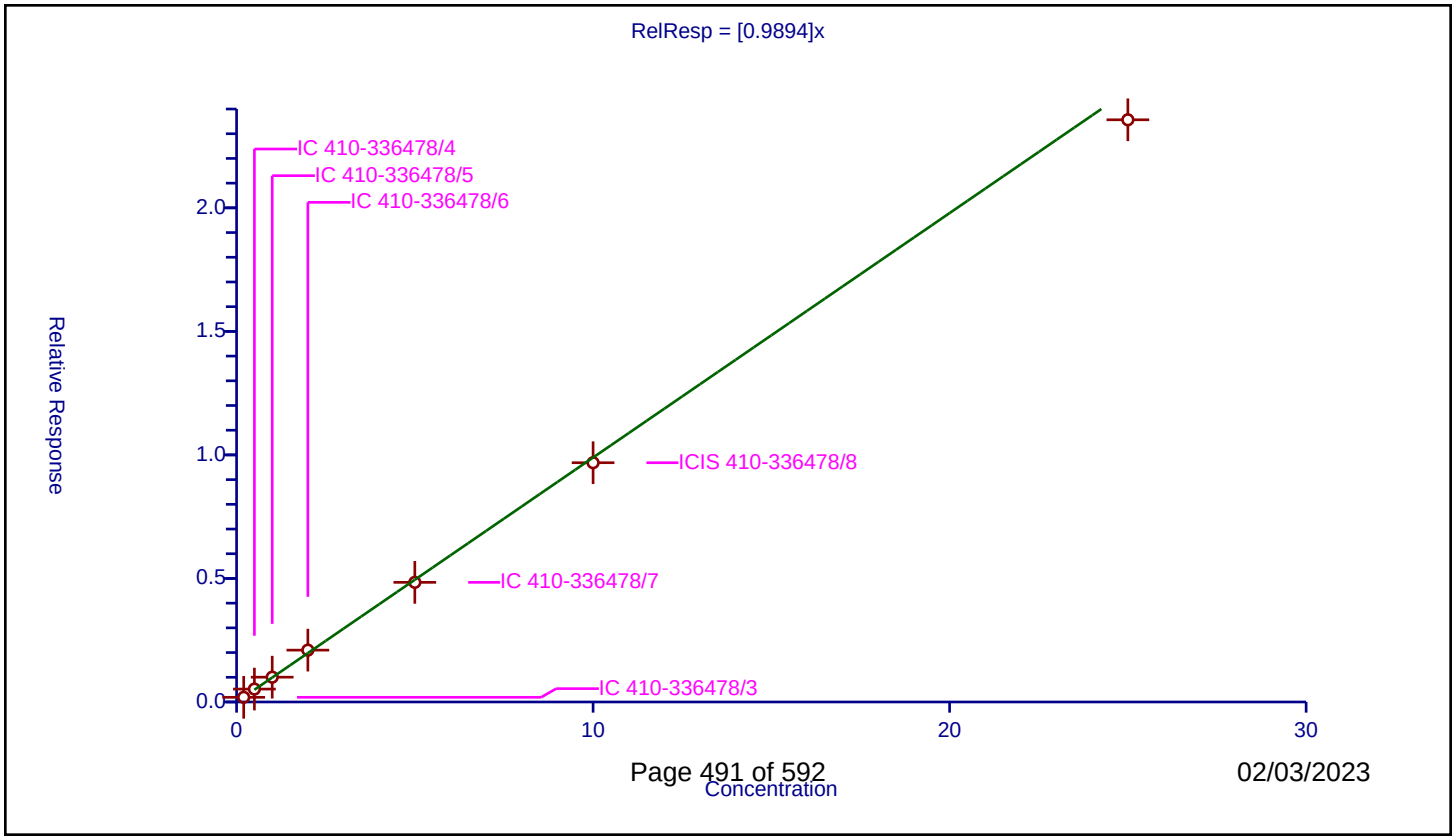
Curve Coefficients

Intercept:	0
Slope:	0.9894

Error Coefficients

Standard Error:	1540000
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 410-336478/3	0.2	0.189389	10.0	1272727.0	0.946943	Y
2	IC 410-336478/4	0.5	0.522657	10.0	1314073.0	1.045315	Y
3	IC 410-336478/5	1.0	1.004738	10.0	1290745.0	1.004738	Y
4	IC 410-336478/6	2.0	2.099107	10.0	1319261.0	1.049554	Y
5	IC 410-336478/7	5.0	4.841843	10.0	1391974.0	0.968369	Y
6	ICIS 410-336478/8	10.0	9.683716	10.0	1400357.0	0.968372	Y
7	IC 410-336478/9	25.0	23.564251	10.0	1461749.0	0.94257	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-113568-1

SDG No.:

Lab Sample ID: ICV 410-336478/11 Calibration Date: 01/18/2023 13:37

Instrument ID: 16334 Calib Start Date: 01/18/2023 10:40

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 01/18/2023 12:53

Lab File ID: JD18X10.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	0.3403	0.2810	0.1000	4.13	5.00	-17.4	30.0
Chloromethane	Ave	0.3943	0.3325	0.1000	4.22	5.00	-15.7	30.0
Vinyl chloride	Ave	0.3754	0.3227	0.1000	4.30	5.00	-14.0	30.0
1,3-Butadiene	Lin		0.2973		4.90	5.00	-2.0	30.0
Bromomethane	Ave	0.2480	0.2241	0.1000	4.52	5.00	-9.6	30.0
Chloroethane	Ave	0.2154	0.1939	0.1000	4.50	5.00	-10.0	30.0
Dichlorofluoromethane	Ave	0.5000	0.4578		4.58	5.00	-8.5	30.0
Trichlorofluoromethane	Ave	0.4736	0.3842	0.1000	4.06	5.00	-18.9	30.0
Pentane	None					5.00		30.0
Ethyl ether	Ave	0.2015	0.1911		4.73	4.99	-5.2	30.0
Freon 123a	Ave	0.3012	0.2785		4.62	5.00	-7.5	30.0
Acrolein	Ave	2.228	2.222		37.4	37.5	-0.3	30.0
1,1-Dichloroethene	Ave	0.2328	0.2227	0.1000	4.78	5.00	-4.3	30.0
Acetone	Ave	2.799	2.309	0.1000	51.6	62.5	-17.5	30.0
Freon 113	Ave	0.2232	0.2273	0.1000	5.09	5.00	1.8	30.0
Methyl iodide	Ave	0.3938	0.3926		4.98	5.00	-0.3	30.0
Ethyl bromide	Ave	0.2052	0.1692		4.06	4.93	-17.6	30.0
Carbon disulfide	Ave	0.6948	0.7149	0.1000	5.14	5.00	2.9	30.0
Methyl acetate	Lin		7.252	0.1000	4.91	5.00	-1.7	30.0
Allyl chloride	Ave	0.3597	0.3649		5.07	5.00	1.4	30.0
Methylene Chloride	Ave	0.2591	0.2421	0.1000	4.67	5.00	-6.6	30.0
t-Butyl alcohol	Ave	1.078	0.9208		42.7	50.0	-14.6	30.0
Acrylonitrile	Ave	3.867	3.832		24.8	25.0	-0.9	30.0
Methyl tert-butyl ether	Ave	0.6314	0.6147	0.1000	4.87	5.00	-2.6	30.0
trans-1,2-Dichloroethene	Ave	0.2635	0.2456	0.1000	4.66	5.00	-6.8	30.0
n-Hexane	Ave	0.3344	0.3421		5.12	5.00	2.3	30.0
1,1-Dichloroethane	Ave	0.4665	0.4378	0.2000	4.69	5.00	-6.2	30.0
di-Isopropyl ether	Ave	0.8074	0.7833		4.85	5.00	-3.0	30.0
2-Chloro-1,3-butadiene	Ave	0.3568	0.3617		5.07	5.00	1.4	30.0
Ethyl t-butyl ether	Ave	0.7557	0.7527		4.98	5.00	-0.4	30.0
2-Butanone (MEK)	Ave	5.490	5.276	0.1000	60.1	62.5	-3.9	30.0
cis-1,2-Dichloroethene	Ave	0.2912	0.2812	0.1000	4.83	5.00	-3.4	30.0
2,2-Dichloropropane	Ave	0.3827	0.3826		5.00	5.00	-0.0	30.0
Propionitrile	Ave	1.314	1.158		33.0	37.5	-11.9	30.0
Methacrylonitrile	Ave	5.606	5.515		36.9	37.5	-1.6	30.0
Tetrahydrofuran	Ave	1.550	1.511		24.4	25.0	-2.5	30.0
Bromochloromethane	Ave	0.1278	0.1232		4.82	5.00	-3.6	30.0
Chloroform	Ave	0.4685	0.4418	0.2000	4.72	5.00	-5.7	30.0
1,1,1-Trichloroethane	Ave	0.4036	0.3932	0.1000	4.87	5.00	-2.6	30.0
Cyclohexane	Ave	0.4109	0.4142	0.1000	5.04	5.00	0.8	30.0
Carbon tetrachloride	Ave	0.3550	0.3436	0.1000	4.84	5.00	-3.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-113568-1

SDG No.:

Lab Sample ID: ICV 410-336478/11 Calibration Date: 01/18/2023 13:37

Instrument ID: 16334 Calib Start Date: 01/18/2023 10:40

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 01/18/2023 12:53

Lab File ID: JD18X10.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1-Dichloropropene	Ave	0.3582	0.3586		5.00	5.00	0.1	30.0
Isobutyl alcohol	Ave	0.0041	0.0035		109	125	-13.0	30.0
Benzene	Ave	1.083	1.051	0.5000	4.85	5.00	-3.0	30.0
1,2-Dichloroethane	Ave	0.3046	0.2681	0.1000	4.40	5.00	-12.0	30.0
t-Amyl methyl ether	Ave	0.6921	0.6906		4.99	5.00	-0.2	30.0
n-Heptane	Ave	0.3789	0.3661		4.83	5.00	-3.4	30.0
n-Butanol	Ave	0.2974	0.2885		242	250	-3.0	30.0
Trichloroethene	Ave	0.2925	0.2740	0.2000	4.68	5.00	-6.3	30.0
Methylcyclohexane	Ave	0.4478	0.4479	0.1000	5.00	5.00	0.0	30.0
1,2-Dichloropropane	Ave	0.2818	0.2664	0.1000	4.73	5.00	-5.5	30.0
Methyl methacrylate	Ave	10.65	10.63		4.99	5.00	-0.1	30.0
1,4-Dioxane	Lin1		0.0632	0.0050	135	125	8.3	30.0
Dibromomethane	Ave	0.1354	0.1291		4.77	5.00	-4.6	30.0
Bromodichloromethane	Ave	0.3374	0.3273	0.2000	4.85	5.00	-3.0	30.0
2-Nitropropane	Ave	3.154	2.669		4.23	5.00	-15.4	30.0
1-Bromo-2-chloroethane	Ave	0.2928	0.2737		4.67	5.00	-6.5	30.0
cis-1,3-Dichloropropene	Ave	0.4167	0.4037	0.2000	4.84	5.00	-3.1	30.0
4-Methyl-2-pentanone (MIBK)	Ave	14.95	15.11	0.1000	63.2	62.5	1.1	30.0
Toluene	Ave	0.9303	0.8966	0.4000	4.82	5.00	-3.6	30.0
trans-1,3-Dichloropropene	Ave	0.4816	0.4733	0.1000	4.91	5.00	-1.7	30.0
Ethyl methacrylate	Ave	0.3411	0.3481		5.10	5.00	2.0	30.0
1,1,2-Trichloroethane	Ave	0.2725	0.2583	0.1000	4.74	5.00	-5.2	30.0
Tetrachloroethene	Ave	0.4377	0.4180	0.2000	4.77	5.00	-4.5	30.0
1,3-Dichloropropane	Ave	0.4535	0.4430		4.88	5.00	-2.3	30.0
2-Hexanone	Ave	10.70	11.10	0.1000	64.8	62.5	3.7	30.0
Dibromochloromethane	Ave	0.3222	0.3123		4.85	5.00	-3.1	30.0
1,2-Dibromoethane (EDB)	Ave	0.2513	0.2453	0.1000	4.88	5.00	-2.4	30.0
1-Chlorohexane	Ave	0.5295	0.4970		4.69	5.00	-6.1	30.0
Chlorobenzene	Ave	1.099	1.028	0.5000	4.68	5.00	-6.5	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3661	0.3564		4.87	5.00	-2.6	30.0
Ethylbenzene	Ave	1.797	1.773	0.1000	4.93	5.00	-1.4	30.0
m&p-Xylene	Ave	0.6950	0.6950	0.1000	10.0	10.0	0.0	30.0
o-Xylene	Ave	0.6728	0.6768	0.3000	5.03	5.00	0.6	30.0
Styrene	Ave	1.081	1.112	0.3000	5.14	5.00	2.9	30.0
Bromoform	Ave	0.1970	0.1896	0.1000	4.81	5.00	-3.8	30.0
Isopropylbenzene	Ave	1.740	1.774	0.1000	5.10	5.00	1.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5951	0.5700	0.3000	4.79	5.00	-4.2	30.0
Bromobenzene	Ave	0.7760	0.7638		4.92	5.00	-1.6	30.0
trans-1,4-Dichloro-2-butene	Ave	6.017	5.806		24.1	25.0	-3.5	30.0
1,2,3-Trichloropropane	Ave	0.1565	0.1499		4.79	5.00	-4.2	30.0
N-Propylbenzene	Ave	3.707	3.715		5.01	5.00	0.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-113568-1

SDG No.:

Lab Sample ID: ICV 410-336478/11 Calibration Date: 01/18/2023 13:37

Instrument ID: 16334 Calib Start Date: 01/18/2023 10:40

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 01/18/2023 12:53

Lab File ID: JD18X10.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
2-Chlorotoluene	Ave	0.7572	0.7518		4.96	5.00	-0.7	30.0
1,3,5-Trimethylbenzene	Ave	2.620	2.654		5.06	5.00	1.3	30.0
4-Chlorotoluene	Ave	0.7919	0.7889		4.98	5.00	-0.4	30.0
tert-Butylbenzene	Ave	0.5752	0.5687		4.94	5.00	-1.1	30.0
Pentachloroethane	Ave	0.4776	0.4674		4.89	5.00	-2.1	30.0
1,2,4-Trimethylbenzene	Ave	2.717	2.728		5.02	5.00	0.4	30.0
sec-Butylbenzene	Ave	3.350	3.439		5.13	5.00	2.6	30.0
1,3-Dichlorobenzene	Ave	1.607	1.519	0.6000	4.73	5.00	-5.5	30.0
p-Isopropyltoluene	Ave	2.956	3.044		5.15	5.00	2.9	30.0
1,4-Dichlorobenzene	Ave	1.595	1.570	0.5000	4.92	5.00	-1.5	30.0
1,2,3-Trimethylbenzene	Ave	1.251	1.198		4.79	5.00	-4.2	30.0
Benzyl chloride	Ave	0.2315	0.2355		5.09	5.00	1.7	30.0
n-Butylbenzene	Ave	1.535	1.543		5.03	5.00	0.5	30.0
1,2-Dichlorobenzene	Ave	1.500	1.434	0.4000	4.78	5.00	-4.5	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0806	0.0786	0.0500	4.88	5.00	-2.4	30.0
1,3,5-Trichlorobenzene	Ave	1.303	1.236		4.74	5.00	-5.2	30.0
1,2,4-Trichlorobenzene	Ave	1.139	1.122	0.2000	4.92	5.00	-1.5	30.0
Hexachlorobutadiene	Ave	0.5848	0.6041		5.16	5.00	3.3	30.0
Naphthalene	Ave	1.861	1.867		5.01	5.00	0.3	30.0
1,2,3-Trichlorobenzene	Ave	0.9894	0.9818		4.96	5.00	-0.8	30.0
Dibromofluoromethane (Surr)	Ave	0.2400	0.2378		9.91	10.0	-0.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0497	0.0495		9.96	10.0	-0.4	30.0
Toluene-d8 (Surr)	Ave	1.321	1.325		10.0	10.0	0.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4864	0.4902		10.1	10.0	0.8	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X10.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 18-Jan-2023 13:37:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0075310-011
Misc. Info.: ICV
Operator ID: knk41612 Instrument ID: 16334
Sublist:

Method: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jan-2023 15:05:07 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: DVW2 Date: 18-Jan-2023 14:39:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.898	1.898	0.000	99	444251	5.00	4.13	
5 Chloromethane	50	2.093	2.093	0.000	99	525705	5.00	4.22	
6 Vinyl chloride	62	2.202	2.203	-0.001	98	510282	5.00	4.30	
7 Butadiene	39	2.221	2.221	0.000	91	470036	5.00	4.90	
9 Bromomethane	94	2.532	2.532	0.000	91	354311	5.00	4.52	
10 Chloroethane	64	2.605	2.605	0.000	100	306615	5.00	4.50	
11 Dichlorofluoromethane	67	2.842	2.843	-0.001	97	723774	5.00	4.58	
12 Trichlorofluoromethane	101	2.903	2.904	-0.001	97	607435	5.00	4.06	
13 Ethyl ether	59	3.135	3.135	0.000	92	301377	4.99	4.73	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.220	3.227	-0.007	93	440321	5.00	4.62	
17 Acrolein	56	3.300	3.300	0.000	98	296345	37.5	37.4	
18 1,1-Dichloroethene	96	3.434	3.434	0.000	98	352094	5.00	4.78	
20 Acetone	43	3.458	3.458	0.000	99	513348	62.5	51.6	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.476	3.477	-0.001	93	359344	5.00	5.09	
24 Isopropyl alcohol	45	3.605	3.611	-0.007	93	50894	37.5	31.0	
21 Iodomethane	142	3.617	3.617	0.000	99	620682	5.00	4.98	
22 Ethyl bromide	108	3.647	3.647	0.000	98	263600	4.93	4.06	
23 Carbon disulfide	76	3.720	3.715	0.005	99	1130328	5.00	5.14	
25 Methyl acetate	43	3.867	3.861	0.006	97	128978	5.00	4.91	
27 3-Chloro-1-propene	41	3.891	3.891	0.000	92	576945	5.00	5.07	
29 Methylene Chloride	84	4.068	4.074	-0.006	92	382806	5.00	4.67	
* 30 t-Butyl alcohol-d10 (IS)	65	4.092	4.099	-0.007	85	177850	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.214	4.202	0.012	100	163771	50.0	42.7	
32 Acrylonitrile	53	4.409	4.403	0.006	98	340776	25.0	24.8	
33 Methyl tert-butyl ether	73	4.464	4.464	0.000	93	971932	5.00	4.87	
34 trans-1,2-Dichloroethene	96	4.476	4.477	-0.001	99	388309	5.00	4.66	
35 Hexane	57	4.909	4.909	0.000	93	540911	5.00	5.12	
37 1,1-Dichloroethane	63	5.141	5.141	0.000	96	692196	5.00	4.69	
38 Isopropyl ether	45	5.202	5.202	0.000	94	1238519	5.00	4.85	
39 2-Chloro-1,3-butadiene	53	5.251	5.245	0.006	91	571815	5.00	5.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.738	5.739	-0.001	98	1190090	5.00	4.98	
41 2-Butanone (MEK)	43	5.939	5.940	-0.001	100	1172819	62.5	60.1	
42 cis-1,2-Dichloroethene	96	5.982	5.976	0.006	82	444612	5.00	4.83	
43 2,2-Dichloropropane	77	5.988	5.995	-0.007	88	604852	5.00	5.00	
45 Propionitrile	54	6.031	6.031	0.000	98	154450	37.5	33.0	
48 Methacrylonitrile	67	6.250	6.251	-0.001	94	735603	37.5	36.9	
49 Chlorobromomethane	128	6.311	6.305	0.006	93	194796	5.00	4.82	
50 Tetrahydrofuran	71	6.305	6.312	-0.007	81	134393	25.0	24.4	
51 Chloroform	83	6.464	6.464	0.000	93	698548	5.00	4.72	
$ 52 Dibromofluoromethane (Surr)	113	6.683	6.677	0.006	94	751861	10.0	9.91	
53 1,1,1-Trichloroethane	97	6.683	6.690	-0.007	98	621606	5.00	4.87	
54 Cyclohexane	56	6.787	6.781	0.006	90	654900	5.00	5.04	
56 Carbon tetrachloride	117	6.897	6.897	0.000	97	543255	5.00	4.84	
57 1,1-Dichloropropene	75	6.903	6.903	0.000	97	566916	5.00	5.00	
58 Isobutyl alcohol	41	7.061	7.068	-0.007	92	139511	125.0	108.7	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.135	-0.007	83	156459	10.0	9.96	
60 Benzene	78	7.165	7.165	0.000	97	1660932	5.00	4.85	
61 1,2-Dichloroethane	62	7.232	7.238	-0.006	97	423839	5.00	4.40	
63 Tert-amyl methyl ether	73	7.354	7.354	0.000	98	1091926	5.00	4.99	
* 64 Fluorobenzene (IS)	96	7.573	7.574	-0.001	99	3162130	10.0	10.0	
65 n-Heptane	43	7.585	7.586	-0.001	92	578811	5.00	4.83	
67 n-Butanol	56	7.951	7.952	-0.001	90	256522	250.0	242.5	
68 Trichloroethene	95	8.049	8.049	0.000	98	433190	5.00	4.68	
69 Methylcyclohexane	83	8.354	8.354	0.000	93	708101	5.00	5.00	
70 1,2-Dichloropropane	63	8.378	8.384	-0.006	95	421143	5.00	4.73	
71 2-ethoxy-2-methyl butane	87	8.390	8.390	0.000	93	625584	5.00	4.98	
72 Methyl methacrylate	69	8.469	8.470	-0.001	90	189119	5.00	4.99	
74 1,4-Dioxane	88	8.476	8.476	0.000	28	28121	125.0	135.4	M
73 Dibromomethane	93	8.488	8.488	0.000	94	204094	5.00	4.77	
76 Dichlorobromomethane	83	8.725	8.726	-0.001	99	517415	5.00	4.85	
77 2-Nitropropane	41	9.000	9.006	-0.006	98	47477	5.00	4.23	
79 1-Bromo-2-chloroethane	63	9.116	9.122	-0.006	98	432810	5.00	4.67	
81 cis-1,3-Dichloropropene	75	9.280	9.281	0.000	96	638265	5.00	4.84	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	97	3358585	62.5	63.2	
$ 83 Toluene-d8 (Surr)	98	9.597	9.598	-0.001	94	3162376	10.0	10.0	
84 Toluene	92	9.676	9.677	-0.001	98	1070317	5.00	4.82	
85 trans-1,3-Dichloropropene	75	9.939	9.939	0.000	93	564931	5.00	4.91	
104 Ethyl methacrylate	69	10.000	10.006	-0.006	89	415490	5.00	5.10	
106 1,1,2-Trichloroethane	97	10.146	10.140	0.006	90	308321	5.00	4.74	
107 Tetrachloroethene	166	10.231	10.232	-0.001	98	498925	5.00	4.77	
108 1,3-Dichloropropane	76	10.304	10.305	-0.001	90	528820	5.00	4.88	
109 2-Hexanone	43	10.365	10.366	-0.001	97	2466919	62.5	64.8	
111 Chlorodibromomethane	129	10.518	10.524	-0.006	90	372848	5.00	4.85	
112 Ethylene Dibromide	107	10.628	10.628	0.000	98	292771	5.00	4.88	
* 113 Chlorobenzene-d5 (IS)	117	11.066	11.067	-0.001	85	2387435	10.0	10.0	
114 1-Chlorohexane	91	11.079	11.079	0.000	97	593238	5.00	4.69	
115 Chlorobenzene	112	11.091	11.091	0.000	94	1227225	5.00	4.68	
117 1,1,1,2-Tetrachloroethane	131	11.176	11.176	0.000	96	425483	5.00	4.87	
116 Ethylbenzene	91	11.182	11.183	-0.001	98	2115911	5.00	4.93	
119 m-Xylene & p-Xylene	106	11.298	11.298	0.000	89	1659303	10.0	10.0	
120 o-Xylene	106	11.627	11.628	-0.001	96	807874	5.00	5.03	
121 Styrene	104	11.640	11.640	0.000	95	1326964	5.00	5.14	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
122 Bromoform	173	11.792	11.792	0.000	97	226302	5.00	4.81	
123 Isopropylbenzene	105	11.926	11.926	0.000	96	2117254	5.00	5.10	
$ 126 4-Bromofluorobenzene (Surr)	95	12.066	12.067	-0.001	91	1170401	10.0	10.1	
127 1,1,2,2-Tetrachloroethane	83	12.170	12.170	0.000	94	394632	5.00	4.79	
128 Bromobenzene	156	12.182	12.182	0.000	97	528809	5.00	4.92	
129 trans-1,4-Dichloro-2-butene	53	12.194	12.195	-0.001	92	516306	25.0	24.1	
130 1,2,3-Trichloropropane	110	12.219	12.219	0.000	83	103792	5.00	4.79	
131 N-Propylbenzene	91	12.249	12.256	-0.007	99	2572438	5.00	5.01	
132 2-Chlorotoluene	126	12.328	12.329	-0.001	97	520536	5.00	4.96	
133 1,3,5-Trimethylbenzene	105	12.389	12.390	-0.001	94	1837519	5.00	5.06	
134 4-Chlorotoluene	126	12.420	12.420	0.000	97	546240	5.00	4.98	
135 tert-Butylbenzene	134	12.627	12.627	0.000	93	393779	5.00	4.94	
136 Pentachloroethane	167	12.664	12.664	0.000	93	323634	5.00	4.89	
137 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	97	1888513	5.00	5.02	
138 sec-Butylbenzene	105	12.792	12.792	0.000	94	2380881	5.00	5.13	
139 1,3-Dichlorobenzene	146	12.889	12.890	-0.001	98	1051514	5.00	4.73	
140 4-Isopropyltoluene	119	12.895	12.896	-0.001	97	2107354	5.00	5.15	
* 141 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	94	1384764	10.0	10.0	
142 1,4-Dichlorobenzene	146	12.962	12.963	-0.001	95	1087187	5.00	4.92	
143 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	98	829678	5.00	4.79	
144 Benzyl chloride	126	13.042	13.042	0.000	98	163029	5.00	5.09	
145 p-Diethylbenzene	119	13.097	13.097	0.000	92	1230089	5.00	4.98	
146 n-Butylbenzene	92	13.188	13.188	0.000	97	1068111	5.00	5.03	
147 1,2-Dichlorobenzene	146	13.218	13.219	-0.001	99	992575	5.00	4.78	
149 1,2-Dibromo-3-Chloropropane	155	13.761	13.761	0.000	86	54427	5.00	4.88	
150 1,3,5-Trichlorobenzene	180	13.883	13.883	0.000	97	855672	5.00	4.74	
151 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	776633	5.00	4.92	
152 Hexachlorobutadiene	225	14.383	14.383	0.000	96	418251	5.00	5.16	
153 Naphthalene	128	14.480	14.481	-0.001	97	1292349	5.00	5.01	
154 1,2,3-Trichlorobenzene	180	14.621	14.621	0.000	96	679749	5.00	4.96	
155 2-Methylnaphthalene	142	15.224	15.224	0.000	92	796699	5.00	5.24	
166 Pentane	43	2.928	2.934	-0.006	97	577641	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_Penta_00024	Amount Added:	12.50	Units: uL	
MSV_LCS_VOC#1_00091	Amount Added:	12.50	Units: uL	
LCS_ETBR_00005	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00120	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00093	Amount Added:	12.50	Units: uL	
MSV_LCS_EE_00004	Amount Added:	12.50	Units: uL	
MSV_29_826ISS_00037	Amount Added:	1.00	Units: uL	Run Reagent

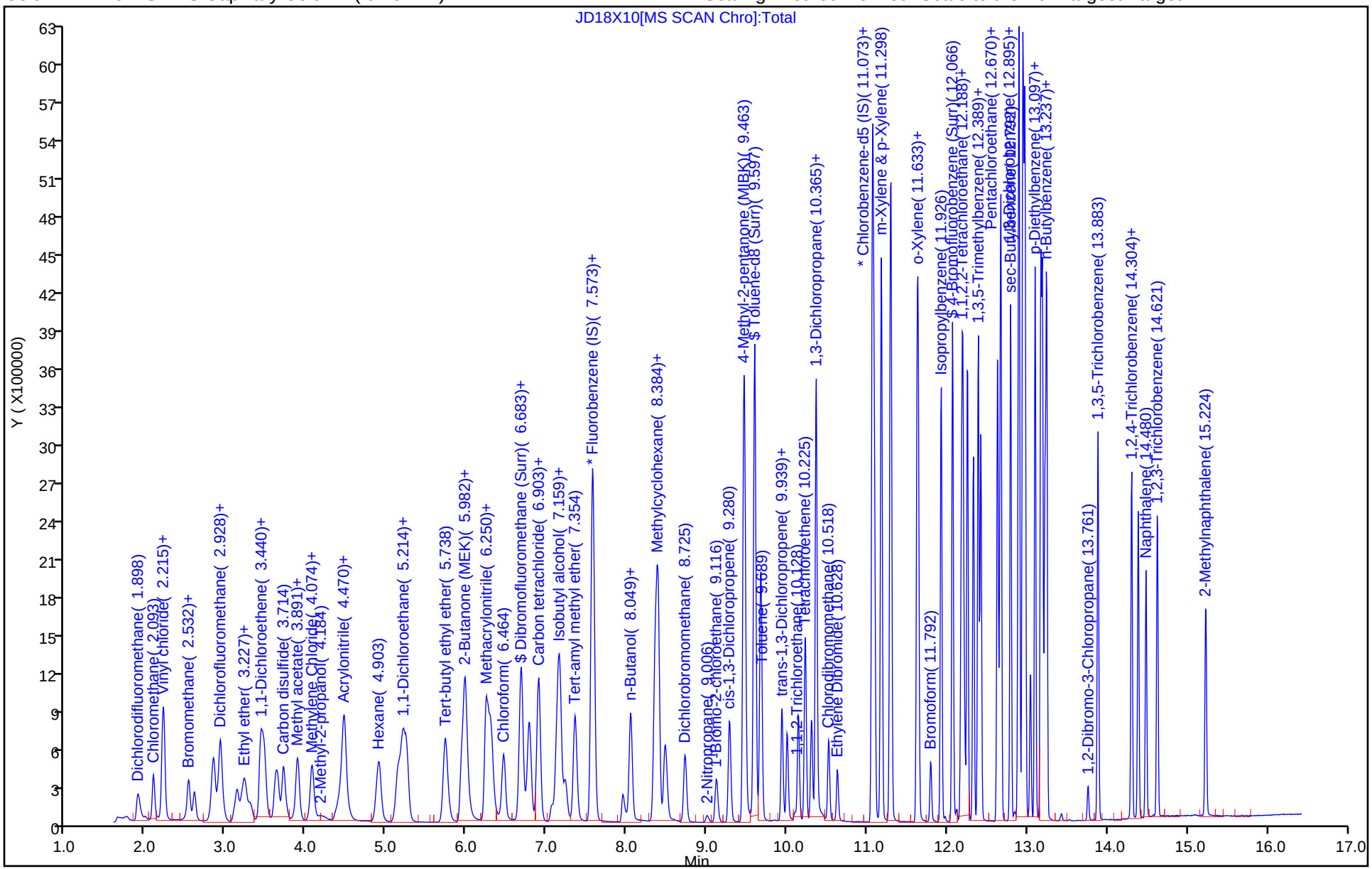
Report Date: 18-Jan-2023 15:05:10 Chrom Revision: 2.3 09-Jan-2023 13:34:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X10.D

Injection Date:	18-Jan-2023 13:37:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	ICV			Worklist Smp#:	11
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MSV_16334_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: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

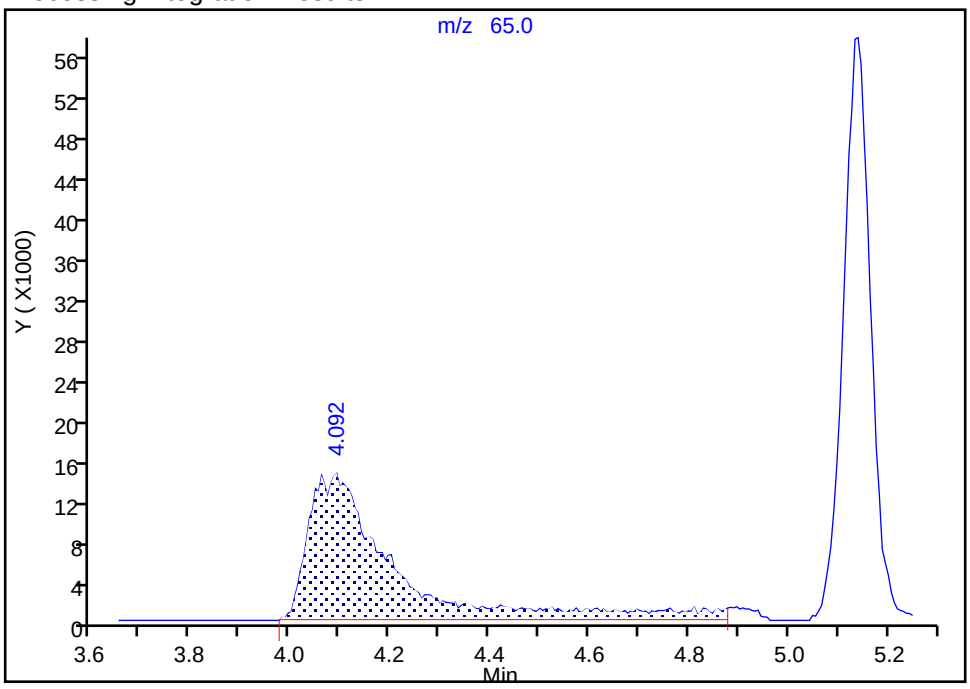
Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X10.D				
Injection Date:	18-Jan-2023 13:37:30	Instrument ID:	16334		
Lims ID:	ICV				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

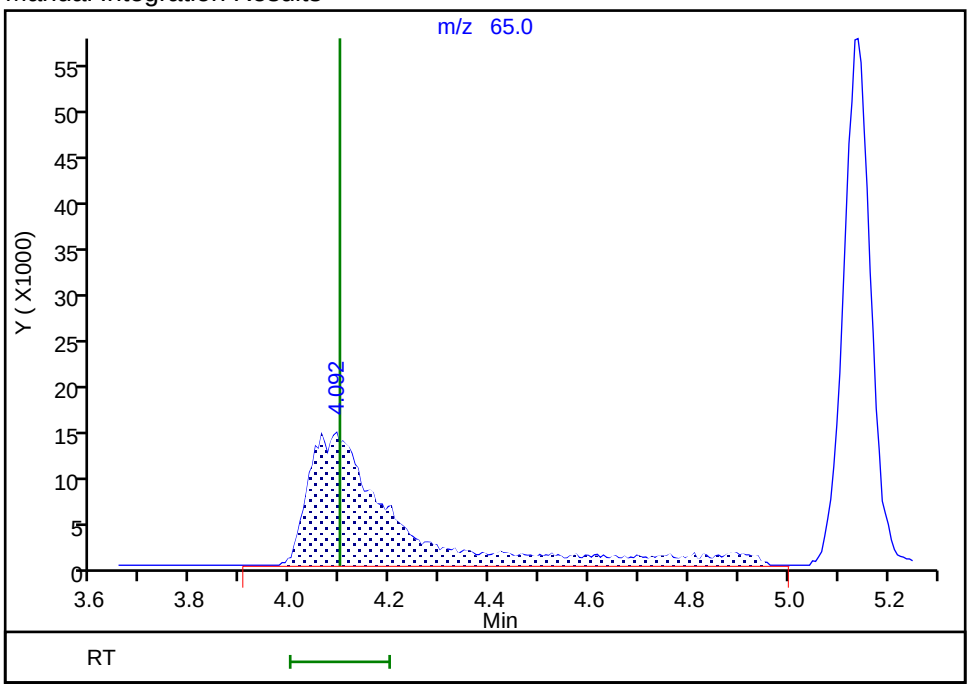
Processing Integration Results

RT: 4.09
Area: 173310
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.09
Area: 177850
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 14:39:08

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

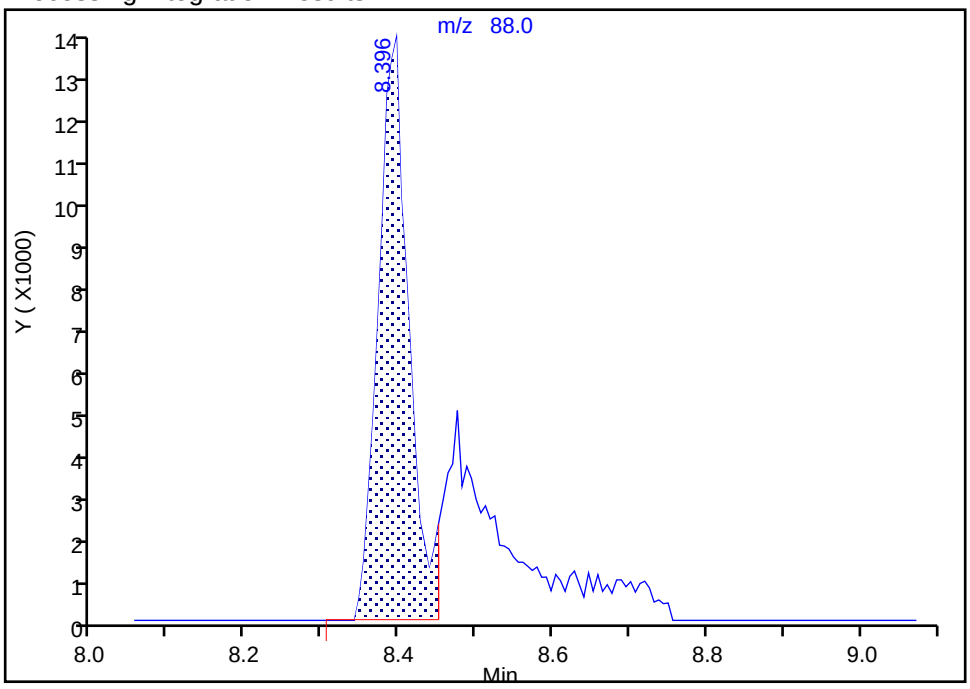
Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X10.D
Injection Date: 18-Jan-2023 13:37:30 Instrument ID: 16334
Lims ID: ICV
Client ID:
Operator ID: knk41612 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

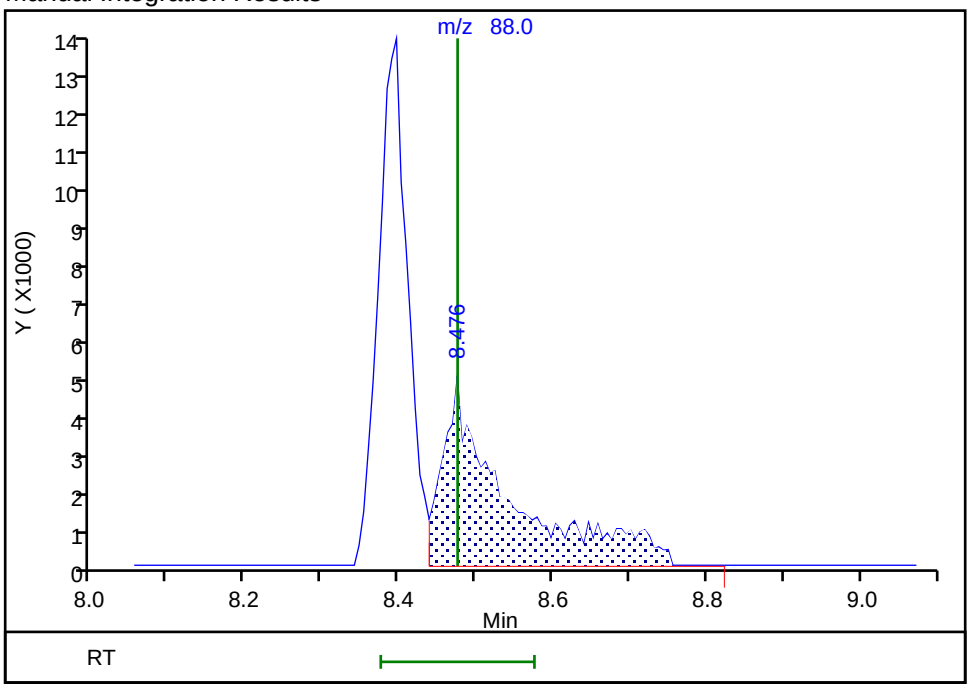
Processing Integration Results

RT: 8.40
Area: 36925
Amount: 177.5199
Amount Units: ug/l



Manual Integration Results

RT: 8.48
Area: 28121
Amount: 135.3987
Amount Units: ug/l



Reviewer: DVW2, 18-Jan-2023 14:39:32
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-113568-1

SDG No.:

Lab Sample ID: CCVIS 410-340101/3 Calibration Date: 01/31/2023 10:50

Instrument ID: 16334 Calib Start Date: 01/18/2023 10:40

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 01/18/2023 12:53

Lab File ID: GJ31X02.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	0.3403	0.3265	0.1000	9.59	10.0	-4.1	20.0
Chloromethane	Ave	0.3943	0.3816	0.1000	9.68	10.0	-3.2	20.0
Vinyl chloride	Ave	0.3754	0.3547	0.1000	9.45	10.0	-5.5	20.0
1,3-Butadiene	Lin		0.4417		15.0	10.0	50.0*	20.0
Bromomethane	Ave	0.2480	0.2317	0.1000	9.34	10.0	-6.6	20.0
Chloroethane	Ave	0.2154	0.1999	0.1000	9.28	10.0	-7.2	20.0
Dichlorofluoromethane	Ave	0.5000	0.4687		9.37	10.0	-6.3	20.0
Trichlorofluoromethane	Ave	0.4736	0.4378	0.1000	9.24	10.0	-7.6	20.0
Pentane	None					10.0		20.0
Ethyl ether	Ave	0.2015	0.1929		9.57	10.0	-4.3	20.0
Freon 123a	Ave	0.3012	0.2838		9.42	10.0	-5.8	20.0
Acrolein	Ave	2.228	1.800		404	500	-19.2	20.0
1,1-Dichloroethene	Ave	0.2328	0.1965	0.1000	8.44	10.0	-15.6	20.0
Acetone	Ave	2.799	2.534	0.1000	90.5	100	-9.5	20.0
Freon 113	Ave	0.2232	0.1911	0.1000	8.56	10.0	-14.4	20.0
Methyl iodide	Ave	0.3938	0.3447		8.75	10.0	-12.5	20.0
Ethyl bromide	Ave	0.2052	0.1949		9.52	10.0	-5.0	20.0
Carbon disulfide	Ave	0.6948	0.5474	0.1000	7.88	10.0	-21.2*	20.0
Methyl acetate	Lin		6.908	0.1000	9.51	10.0	-4.9	20.0
Allyl chloride	Ave	0.3597	0.3370		9.37	10.0	-6.3	20.0
Methylene Chloride	Ave	0.2591	0.2346	0.1000	9.05	10.0	-9.5	20.0
t-Butyl alcohol	Ave	1.078	0.8012		149	200	-25.7*	20.0
Acrylonitrile	Ave	3.867	3.491		22.6	25.0	-9.7	20.0
Methyl tert-butyl ether	Ave	0.6314	0.6275	0.1000	9.94	10.0	-0.6	20.0
trans-1,2-Dichloroethene	Ave	0.2635	0.2300	0.1000	8.73	10.0	-12.7	20.0
n-Hexane	Ave	0.3344	0.2625		7.85	10.0	-21.5*	20.0
1,1-Dichloroethane	Ave	0.4665	0.4386	0.2000	9.40	10.0	-6.0	20.0
di-Isopropyl ether	Ave	0.8074	0.7987		9.89	10.0	-1.1	20.0
2-Chloro-1,3-butadiene	Ave	0.3568	0.3439		9.64	10.0	-3.6	20.0
Ethyl t-butyl ether	Ave	0.7557	0.7477		9.89	10.0	-1.1	20.0
2-Butanone (MEK)	Ave	5.490	4.870	0.1000	88.7	100	-11.3	20.0
cis-1,2-Dichloroethene	Ave	0.2912	0.2668	0.1000	9.16	10.0	-8.4	20.0
2,2-Dichloropropane	Ave	0.3827	0.3668		9.58	10.0	-4.2	20.0
Propionitrile	Ave	1.314	1.315		200	200	0.0	20.0
Methacrylonitrile	Ave	5.606	4.720		84.2	100	-15.8	20.0
Bromochloromethane	Ave	0.1278	0.1212		9.48	10.0	-5.2	20.0
Tetrahydrofuran	Ave	1.550	1.319		42.6	50.0	-14.9	20.0
Chloroform	Ave	0.4685	0.4498	0.2000	9.60	10.0	-4.0	20.0
1,1,1-Trichloroethane	Ave	0.4036	0.3782	0.1000	9.37	10.0	-6.3	20.0
Cyclohexane	Ave	0.4109	0.3502	0.1000	8.52	10.0	-14.8	20.0
1,1-Dichloropropene	Ave	0.3582	0.3287		9.18	10.0	-8.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-113568-1

SDG No.:

Lab Sample ID: CCVIS 410-340101/3 Calibration Date: 01/31/2023 10:50

Instrument ID: 16334 Calib Start Date: 01/18/2023 10:40

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 01/18/2023 12:53

Lab File ID: GJ31X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon tetrachloride	Ave	0.3550	0.3339	0.1000	9.41	10.0	-5.9	20.0
Isobutyl alcohol	Ave	0.0041	0.0050		616	500	23.2*	20.0
Benzene	Ave	1.083	0.9892	0.5000	9.13	10.0	-8.7	20.0
1,2-Dichloroethane	Ave	0.3046	0.2889	0.1000	9.48	10.0	-5.2	20.0
t-Amyl methyl ether	Ave	0.6921	0.6963		10.1	10.0	0.6	20.0
n-Heptane	Ave	0.3789	0.3020		7.97	10.0	-20.3*	20.0
n-Butanol	Ave	0.2974	0.3118		917	875	4.9	20.0
Trichloroethene	Ave	0.2925	0.2663	0.2000	9.11	10.0	-8.9	20.0
Methylcyclohexane	Ave	0.4478	0.3838	0.1000	8.57	10.0	-14.3	20.0
1,2-Dichloropropane	Ave	0.2818	0.2752	0.1000	9.77	10.0	-2.3	20.0
Methyl methacrylate	Ave	10.65	8.664		8.14	10.0	-18.6	20.0
1,4-Dioxane	Lin1		0.0608	0.0050	518	500	3.6	20.0
Dibromomethane	Ave	0.1354	0.1304		9.63	10.0	-3.7	20.0
Bromodichloromethane	Ave	0.3374	0.3370	0.2000	9.99	10.0	-0.1	20.0
2-Nitropropane	Ave	3.154	2.727		43.2	50.0	-13.5	20.0
1-Bromo-2-chloroethane	Ave	0.2928	0.2997		10.2	10.0	2.3	20.0
cis-1,3-Dichloropropene	Ave	0.4167	0.4191	0.2000	10.1	10.0	0.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	14.95	12.91	0.1000	86.4	100	-13.6	20.0
Toluene	Ave	0.9303	0.8466	0.4000	9.10	10.0	-9.0	20.0
trans-1,3-Dichloropropene	Ave	0.4816	0.4775	0.1000	9.91	10.0	-0.9	20.0
Ethyl methacrylate	Ave	0.3411	0.3715		10.9	10.0	8.9	20.0
1,1,2-Trichloroethane	Ave	0.2725	0.2585	0.1000	9.48	10.0	-5.2	20.0
Tetrachloroethene	Ave	0.4377	0.3945	0.2000	9.01	10.0	-9.9	20.0
1,3-Dichloropropane	Ave	0.4535	0.4401		9.70	10.0	-3.0	20.0
2-Hexanone	Ave	10.70	9.322	0.1000	87.1	100	-12.9	20.0
Dibromochloromethane	Ave	0.3222	0.3260		10.1	10.0	1.2	20.0
1,2-Dibromoethane (EDB)	Ave	0.2513	0.2428	0.1000	9.66	10.0	-3.4	20.0
1-Chlorohexane	Ave	0.5295	0.4802		9.07	10.0	-9.3	20.0
Chlorobenzene	Ave	1.099	1.020	0.5000	9.27	10.0	-7.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3661	0.3564		9.74	10.0	-2.6	20.0
Ethylbenzene	Ave	1.797	1.711	0.1000	9.52	10.0	-4.8	20.0
m&p-Xylene	Ave	0.6950	0.6628	0.1000	19.1	20.0	-4.6	20.0
o-Xylene	Ave	0.6728	0.6539	0.3000	9.72	10.0	-2.8	20.0
Styrene	Ave	1.081	1.108	0.3000	10.3	10.0	2.6	20.0
Bromoform	Ave	0.1970	0.2026	0.1000	10.3	10.0	2.8	20.0
Isopropylbenzene	Ave	1.740	1.713	0.1000	9.84	10.0	-1.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5951	0.5965	0.3000	10.0	10.0	0.2	20.0
Bromobenzene	Ave	0.7760	0.7289		9.39	10.0	-6.1	20.0
trans-1,4-Dichloro-2-butene	Ave	6.017	3.988		66.3	100	-33.7*	20.0
1,2,3-Trichloropropane	Ave	0.1565	0.1573		10.1	10.0	0.5	20.0
N-Propylbenzene	Ave	3.707	3.534		9.53	10.0	-4.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-113568-1

SDG No.:

Lab Sample ID: CCVIS 410-340101/3 Calibration Date: 01/31/2023 10:50

Instrument ID: 16334 Calib Start Date: 01/18/2023 10:40

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 01/18/2023 12:53

Lab File ID: GJ31X02.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
2-Chlorotoluene	Ave	0.7572	0.7148		9.44	10.0	-5.6	20.0
1,3,5-Trimethylbenzene	Ave	2.620	2.564		9.78	10.0	-2.2	20.0
4-Chlorotoluene	Ave	0.7919	0.7589		9.58	10.0	-4.2	20.0
tert-Butylbenzene	Ave	0.5752	0.5577		9.70	10.0	-3.0	20.0
Pentachloroethane	Ave	0.4776	0.4636		9.71	10.0	-2.9	20.0
1,2,4-Trimethylbenzene	Ave	2.717	2.696		9.92	10.0	-0.8	20.0
sec-Butylbenzene	Ave	3.350	3.294		9.83	10.0	-1.7	20.0
1,3-Dichlorobenzene	Ave	1.607	1.534	0.6000	9.55	10.0	-4.5	20.0
p-Isopropyltoluene	Ave	2.956	2.946		9.97	10.0	-0.3	20.0
1,4-Dichlorobenzene	Ave	1.595	1.489	0.5000	9.33	10.0	-6.7	20.0
1,2,3-Trimethylbenzene	Ave	1.251	1.196		9.56	10.0	-4.4	20.0
Benzyl chloride	Ave	0.2315	0.2484		10.7	10.0	7.3	20.0
n-Butylbenzene	Ave	1.535	1.521		9.91	10.0	-0.9	20.0
1,2-Dichlorobenzene	Ave	1.500	1.432	0.4000	9.54	10.0	-4.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0806	0.0875	0.0500	10.9	10.0	8.6	20.0
1,3,5-Trichlorobenzene	Ave	1.303	1.221		9.37	10.0	-6.3	20.0
1,2,4-Trichlorobenzene	Ave	1.139	1.084	0.2000	9.51	10.0	-4.9	20.0
Hexachlorobutadiene	Ave	0.5848	0.5551		9.49	10.0	-5.1	20.0
Naphthalene	Ave	1.861	1.888		10.1	10.0	1.5	20.0
1,2,3-Trichlorobenzene	Ave	0.9894	0.9404		9.51	10.0	-4.9	20.0
Dibromofluoromethane (Surr)	Ave	0.2400	0.2436		10.1	10.0	1.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0497	0.0508		10.2	10.0	2.2	20.0
Toluene-d8 (Surr)	Ave	1.321	1.321		10.0	10.0	-0.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4864	0.4914		10.1	10.0	1.0	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X02.D
Lims ID: CCVIS VSTD10
Client ID:
Sample Type: CCVIS
Inject. Date: 31-Jan-2023 10:50:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076112-003
Misc. Info.: CCVIS VSTD10
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Feb-2023 08:58:21 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1655

First Level Reviewer: DVW2 Date: 31-Jan-2023 11:14:11

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	2 Dichlorodifluoromethane	85	1.898	1.898	0.000	99	959583	10.0	9.59	
	5 Chloromethane	50	2.093	2.093	0.000	99	1121556	10.0	9.68	
	6 Vinyl chloride	62	2.203	2.203	0.000	98	1042468	10.0	9.45	
	7 Butadiene	39	2.221	2.221	0.000	92	1298251	10.0	15.0	
	9 Bromomethane	94	2.532	2.532	0.000	91	681050	10.0	9.34	
	10 Chloroethane	64	2.605	2.605	0.000	100	587447	10.0	9.28	
	11 Dichlorofluoromethane	67	2.843	2.843	0.000	97	1377680	10.0	9.37	
	12 Trichlorofluoromethane	101	2.904	2.904	0.000	98	1286687	10.0	9.24	
	13 Ethyl ether	59	3.129	3.129	0.000	92	566998	10.0	9.57	
	16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.227	3.227	0.000	93	834304	10.0	9.42	
	17 Acrolein	56	3.294	3.294	0.000	99	4031922	500.0	403.9	
	18 1,1-Dichloroethene	96	3.428	3.428	0.000	98	577552	10.0	8.44	
	19 Acetone	43	3.452	3.452	0.000	100	1135546	100.0	90.5	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.471	3.471	0.000	92	561654	10.0	8.56	
	21 Isopropyl alcohol	45	3.599	3.599	0.000	43	340911	200.0	223.2	
	22 Iodomethane	142	3.617	3.617	0.000	99	1013282	10.0	8.75	
	23 Ethyl bromide	108	3.641	3.641	0.000	99	574020	10.0	9.52	
	24 Carbon disulfide	76	3.714	3.714	0.000	99	1608894	10.0	7.88	
	25 Methyl acetate	43	3.842	3.842	0.000	98	309537	10.0	9.51	
	27 3-Chloro-1-propene	41	3.885	3.885	0.000	92	990609	10.0	9.37	
	29 Methylene Chloride	84	4.068	4.068	0.000	93	689563	10.0	9.05	
*	30 t-Butyl alcohol-d10 (IS)	65	4.074	4.074	0.000	100	224047	50.0	50.0	M
	31 2-Methyl-2-propanol	59	4.208	4.208	0.000	100	718062	200.0	148.6	
	32 Acrylonitrile	53	4.391	4.391	0.000	97	391033	25.0	22.6	
	33 Methyl tert-butyl ether	73	4.464	4.464	0.000	93	1844495	10.0	9.94	
	34 trans-1,2-Dichloroethene	96	4.464	4.464	0.000	98	675994	10.0	8.73	
	35 Hexane	57	4.891	4.891	0.000	94	771446	10.0	7.85	
	37 1,1-Dichloroethane	63	5.135	5.135	0.000	96	1289094	10.0	9.40	
	38 Isopropyl ether	45	5.196	5.196	0.000	94	2347538	10.0	9.89	
	39 2-Chloro-1,3-butadiene	53	5.245	5.245	0.000	91	1010868	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
40 Tert-butyl ethyl ether	59	5.732	5.732	0.000	98	2197620	10.0	9.89	
41 2-Butanone (MEK)	43	5.940	5.940	0.000	100	2182177	100.0	88.7	
42 cis-1,2-Dichloroethene	96	5.970	5.970	0.000	83	784160	10.0	9.16	
43 2,2-Dichloropropane	77	5.988	5.988	0.000	88	1078076	10.0	9.58	
45 Propionitrile	54	6.025	6.025	0.000	99	1178570	200.0	200.1	
48 Methacrylonitrile	67	6.244	6.244	0.000	92	2115201	100.0	84.2	
49 Chlorobromomethane	128	6.299	6.299	0.000	95	356190	10.0	9.48	
50 Tetrahydrofuran	71	6.305	6.305	0.000	91	295608	50.0	42.6	
51 Chloroform	83	6.452	6.452	0.000	93	1322085	10.0	9.60	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.671	0.000	94	716136	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.683	6.683	0.000	98	1111743	10.0	9.37	
54 Cyclohexane	56	6.775	6.775	0.000	91	1029278	10.0	8.52	
56 1,1-Dichloropropene	75	6.897	6.897	0.000	95	966140	10.0	9.18	
55 Carbon tetrachloride	117	6.897	6.897	0.000	89	981492	10.0	9.41	
58 Isobutyl alcohol	41	7.061	7.061	0.000	94	734650	500.0	615.8	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.122	7.122	0.000	100	149326	10.0	10.2	
60 Benzene	78	7.159	7.159	0.000	97	2907521	10.0	9.13	
61 1,2-Dichloroethane	62	7.226	7.226	0.000	98	849250	10.0	9.48	
63 Tert-amyl methyl ether	73	7.348	7.348	0.000	98	2046481	10.0	10.1	
* 64 Fluorobenzene (IS)	96	7.561	7.561	0.000	99	2939273	10.0	10.0	
65 n-Heptane	43	7.580	7.580	0.000	92	887547	10.0	7.97	
67 n-Butanol	56	7.951	7.951	0.000	90	1222697	875.0	917.5	
68 Trichloroethene	95	8.043	8.043	0.000	98	782775	10.0	9.11	
69 Methylcyclohexane	83	8.348	8.348	0.000	93	1128230	10.0	8.57	
70 1,2-Dichloropropane	63	8.378	8.378	0.000	88	808942	10.0	9.77	
71 2-ethoxy-2-methyl butane	87	8.390	8.390	0.000	92	1174749	10.0	10.1	
72 Methyl methacrylate	69	8.464	8.464	0.000	92	388220	10.0	8.14	
73 1,4-Dioxane	88	8.476	8.476	0.000	33	136226	500.0	518.2	M
74 Dibromomethane	93	8.482	8.482	0.000	95	383371	10.0	9.63	
76 Dichlorobromomethane	83	8.726	8.726	0.000	99	990554	10.0	9.99	
77 2-Nitropropane	41	9.000	9.000	0.000	99	610958	50.0	43.2	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	99	880826	10.0	10.2	
81 cis-1,3-Dichloropropene	75	9.280	9.280	0.000	96	1231836	10.0	10.1	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	97	5784231	100.0	86.4	
$ 83 Toluene-d8 (Surr)	98	9.591	9.591	0.000	94	2979509	10.0	10.0	
84 Toluene	92	9.671	9.671	0.000	97	1909506	10.0	9.10	
85 trans-1,3-Dichloropropene	75	9.933	9.933	0.000	93	1077107	10.0	9.91	
86 Ethyl methacrylate	69	10.000	10.000	0.000	89	837937	10.0	10.9	
107 1,1,2-Trichloroethane	97	10.140	10.140	0.000	91	583009	10.0	9.48	
108 Tetrachloroethene	166	10.225	10.225	0.000	98	889764	10.0	9.01	
109 1,3-Dichloropropane	76	10.305	10.305	0.000	91	992606	10.0	9.70	
110 2-Hexanone	43	10.359	10.359	0.000	97	4177062	100.0	87.1	
112 Chlorodibromomethane	129	10.518	10.518	0.000	90	735350	10.0	10.1	
113 Ethylene Dibromide	107	10.628	10.628	0.000	99	547690	10.0	9.66	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	85	2255600	10.0	10.0	
115 1-Chlorohexane	91	11.079	11.079	0.000	98	1083100	10.0	9.07	
116 Chlorobenzene	112	11.091	11.091	0.000	95	2299933	10.0	9.27	
117 1,1,1,2-Tetrachloroethane	131	11.176	11.176	0.000	96	803925	10.0	9.74	
118 Ethylbenzene	91	11.176	11.176	0.000	98	3858743	10.0	9.52	
120 m-Xylene & p-Xylene	106	11.292	11.292	0.000	100	2990004	20.0	19.1	
121 o-Xylene	106	11.621	11.621	0.000	96	1474826	10.0	9.72	
122 Styrene	104	11.640	11.640	0.000	95	2500189	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
123 Bromoform	173	11.792	11.792	0.000	97	456915	10.0	10.3	
124 Isopropylbenzene	105	11.926	11.926	0.000	96	3864574	10.0	9.84	
$ 127 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	91	1108296	10.0	10.1	
128 1,1,2,2-Tetrachloroethane	83	12.170	12.170	0.000	93	791534	10.0	10.0	
129 Bromobenzene	156	12.182	12.182	0.000	95	967225	10.0	9.39	
130 trans-1,4-Dichloro-2-butene	53	12.194	12.194	0.000	92	1787129	100.0	66.3	
131 1,2,3-Trichloropropane	110	12.213	12.213	0.000	81	208779	10.0	10.1	
132 N-Propylbenzene	91	12.249	12.249	0.000	99	4689732	10.0	9.53	
133 2-Chlorotoluene	126	12.329	12.329	0.000	96	948587	10.0	9.44	
134 1,3,5-Trimethylbenzene	105	12.390	12.390	0.000	94	3402171	10.0	9.78	
135 4-Chlorotoluene	126	12.420	12.420	0.000	97	1007053	10.0	9.58	
136 tert-Butylbenzene	134	12.627	12.627	0.000	93	740087	10.0	9.70	
137 Pentachloroethane	167	12.658	12.658	0.000	91	615135	10.0	9.71	
138 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	97	3576903	10.0	9.92	
139 sec-Butylbenzene	105	12.792	12.792	0.000	94	4370721	10.0	9.83	
140 1,3-Dichlorobenzene	146	12.889	12.889	0.000	98	2035891	10.0	9.55	
141 4-Isopropyltoluene	119	12.896	12.896	0.000	97	3909406	10.0	9.97	
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	94	1326974	10.0	10.0	
143 1,4-Dichlorobenzene	146	12.963	12.963	0.000	94	1975286	10.0	9.33	
144 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	98	1587511	10.0	9.56	
145 Benzyl chloride	126	13.042	13.042	0.000	99	329620	10.0	10.7	
146 p-Diethylbenzene	119	13.097	13.097	0.000	92	2339696	10.0	9.89	
147 n-Butylbenzene	92	13.188	13.188	0.000	97	2018691	10.0	9.91	
148 1,2-Dichlorobenzene	146	13.219	13.219	0.000	98	1899902	10.0	9.54	
150 1,2-Dibromo-3-Chloropropane	155	13.761	13.761	0.000	87	116138	10.0	10.9	
151 1,3,5-Trichlorobenzene	180	13.883	13.883	0.000	98	1619964	10.0	9.37	
152 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	1437819	10.0	9.51	
153 Hexachlorobutadiene	225	14.389	14.389	0.000	97	736537	10.0	9.49	
154 Naphthalene	128	14.481	14.481	0.000	97	2505520	10.0	10.1	
155 1,2,3-Trichlorobenzene	180	14.621	14.621	0.000	96	1247935	10.0	9.51	
156 2-Methylnaphthalene	142	15.224	15.224	0.000	92	1433258	10.0	9.84	
167 Pentane	43	2.928	2.928	0.000	97	793327	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

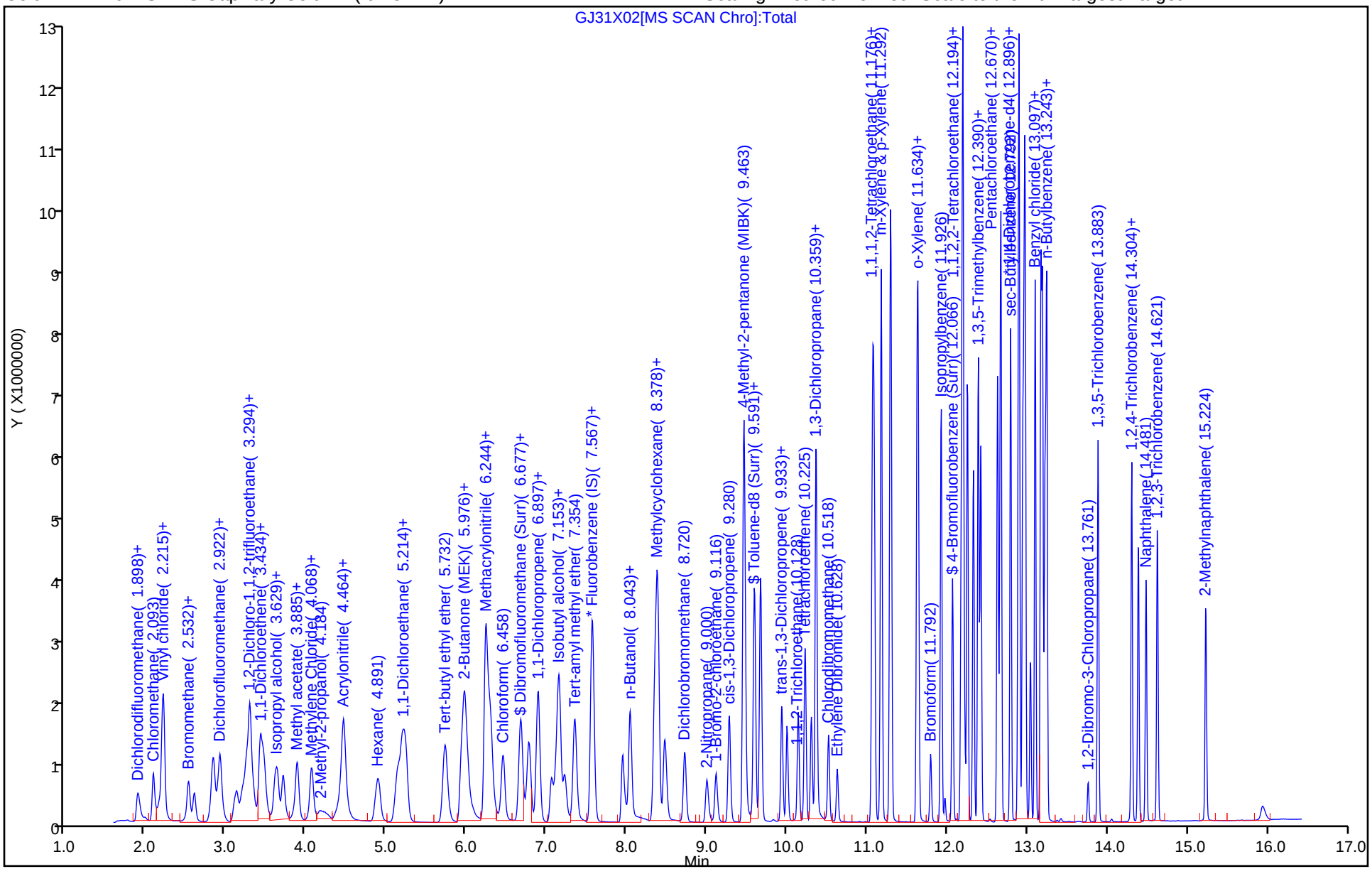
MSV_LL_#1_826_00065	Amount Added: 20.00	Units: uL	
MSV_LL_GAS826_00134	Amount Added: 20.00	Units: uL	
MSV_LL_#2_826_00073	Amount Added: 20.00	Units: uL	
MSV_29_826ISS_00037	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 01-Feb-2023 08:58:23 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X02.D				
Injection Date:	31-Jan-2023 10:50:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	CCVIS VSTD10			Worklist Smp#:	3
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSV_16334_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: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

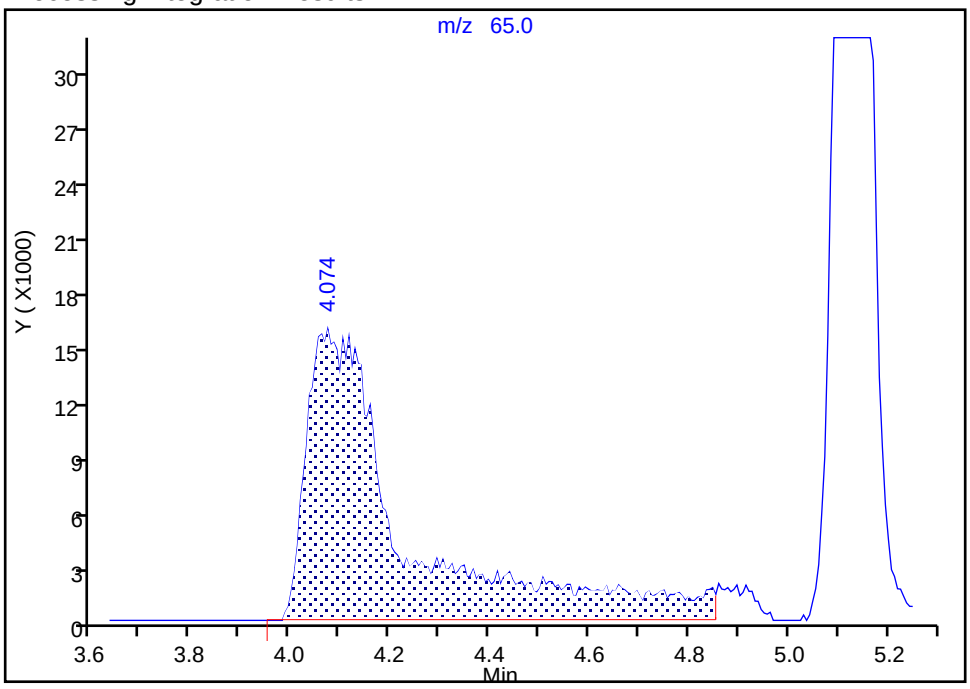
Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X02.D
Injection Date: 31-Jan-2023 10:50:30 Instrument ID: 16334
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

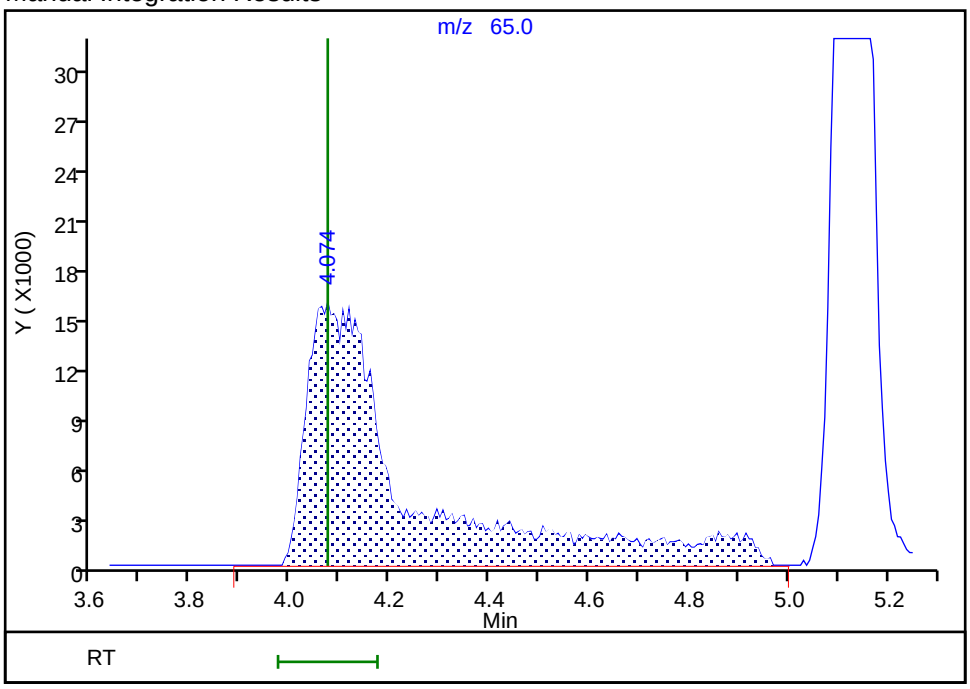
Processing Integration Results

RT: 4.07
Area: 215267
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.07
Area: 224047
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 31-Jan-2023 11:12:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

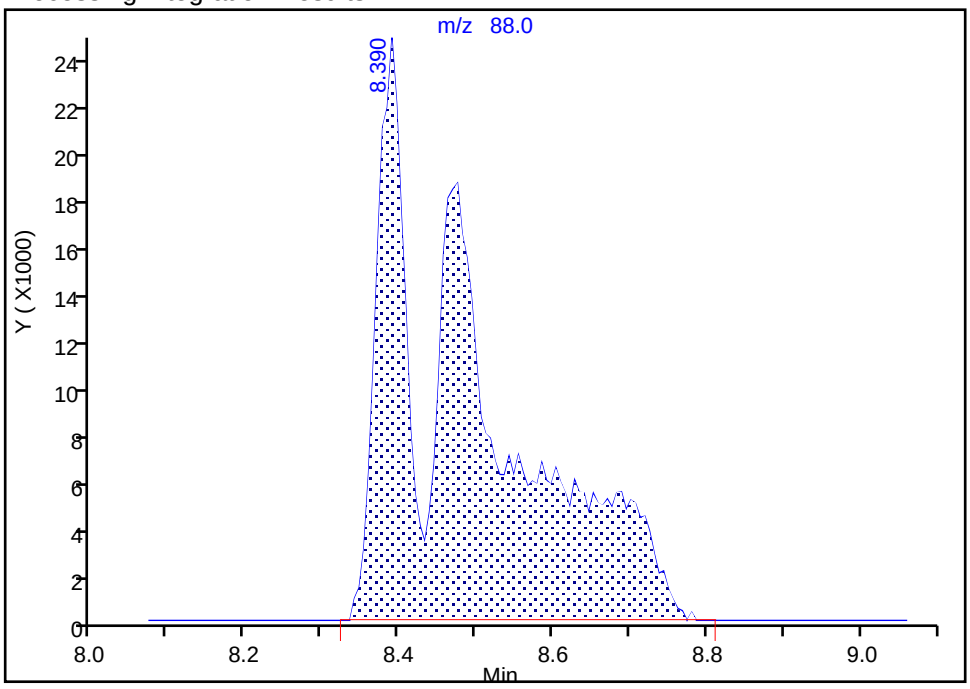
Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X02.D				
Injection Date:	31-Jan-2023 10:50:30	Instrument ID:	16334		
Lims ID:	CCVIS VSTD10				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

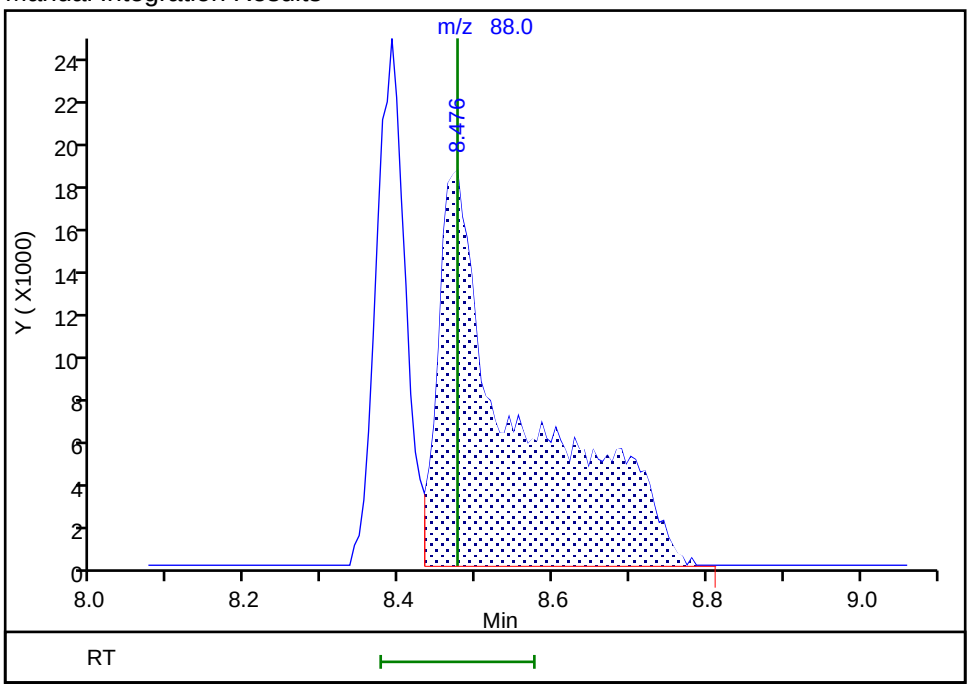
Processing Integration Results

RT: 8.39
Area: 199961
Amount: 760.2764
Amount Units: ug/l



Manual Integration Results

RT: 8.48
Area: 136226
Amount: 518.2218
Amount Units: ug/l



Reviewer: DVW2, 31-Jan-2023 11:12:43
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-113568-1

SDG No.:

Lab Sample ID: CCVIS 410-340956/3 Calibration Date: 02/02/2023 10:53

Instrument ID: 16334 Calib Start Date: 01/18/2023 10:40

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 01/18/2023 12:53

Lab File ID: GF02X02.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	0.3403	0.3095	0.1000	9.09	10.0	-9.1	20.0
Chloromethane	Ave	0.3943	0.3749	0.1000	9.51	10.0	-4.9	20.0
Vinyl chloride	Ave	0.3754	0.3516	0.1000	9.37	10.0	-6.3	20.0
1,3-Butadiene	Lin		0.5122		17.4	10.0	74.2*	20.0
Bromomethane	Ave	0.2480	0.2275	0.1000	9.17	10.0	-8.3	20.0
Chloroethane	Ave	0.2154	0.1983	0.1000	9.21	10.0	-7.9	20.0
Dichlorofluoromethane	Ave	0.5000	0.4592		9.18	10.0	-8.2	20.0
Trichlorofluoromethane	Ave	0.4736	0.4447	0.1000	9.39	10.0	-6.1	20.0
Pentane	None					10.0		20.0
Ethyl ether	Ave	0.2015	0.1899		9.43	10.0	-5.7	20.0
Freon 123a	Ave	0.3012	0.2845		9.44	10.0	-5.6	20.0
Acrolein	Ave	2.228	2.042		458	500	-8.3	20.0
1,1-Dichloroethene	Ave	0.2328	0.1909	0.1000	8.20	10.0	-18.0	20.0
Acetone	Ave	2.799	2.628	0.1000	93.9	100	-6.1	20.0
Freon 113	Ave	0.2232	0.1904	0.1000	8.53	10.0	-14.7	20.0
Methyl iodide	Ave	0.3938	0.3297		8.37	10.0	-16.3	20.0
Ethyl bromide	Ave	0.2052	0.1919		9.37	10.0	-6.5	20.0
Carbon disulfide	Ave	0.6948	0.5294	0.1000	7.62	10.0	-23.8*	20.0
Methyl acetate	Lin		7.477	0.1000	10.3	10.0	3.1	20.0
Allyl chloride	Ave	0.3597	0.3244		9.02	10.0	-9.8	20.0
Methylene Chloride	Ave	0.2591	0.2252	0.1000	8.69	10.0	-13.1	20.0
t-Butyl alcohol	Ave	1.078	0.8685		161	200	-19.4	20.0
Acrylonitrile	Ave	3.867	3.796		24.5	25.0	-1.8	20.0
Methyl tert-butyl ether	Ave	0.6314	0.6060	0.1000	9.60	10.0	-4.0	20.0
trans-1,2-Dichloroethene	Ave	0.2635	0.2237	0.1000	8.49	10.0	-15.1	20.0
n-Hexane	Ave	0.3344	0.2594		7.76	10.0	-22.4*	20.0
1,1-Dichloroethane	Ave	0.4665	0.4293	0.2000	9.20	10.0	-8.0	20.0
di-Isopropyl ether	Ave	0.8074	0.7779		9.64	10.0	-3.6	20.0
2-Chloro-1,3-butadiene	Ave	0.3568	0.3344		9.37	10.0	-6.3	20.0
Ethyl t-butyl ether	Ave	0.7557	0.7277		9.63	10.0	-3.7	20.0
2-Butanone (MEK)	Ave	5.490	5.199	0.1000	94.7	100	-5.3	20.0
cis-1,2-Dichloroethene	Ave	0.2912	0.2572	0.1000	8.83	10.0	-11.7	20.0
2,2-Dichloropropane	Ave	0.3827	0.3617		9.45	10.0	-5.5	20.0
Propionitrile	Ave	1.314	1.326		202	200	0.9	20.0
Methacrylonitrile	Ave	5.606	5.153		91.9	100	-8.1	20.0
Bromochloromethane	Ave	0.1278	0.1172		9.17	10.0	-8.3	20.0
Tetrahydrofuran	Ave	1.550	1.405		45.3	50.0	-9.3	20.0
Chloroform	Ave	0.4685	0.4322	0.2000	9.23	10.0	-7.7	20.0
1,1,1-Trichloroethane	Ave	0.4036	0.3672	0.1000	9.10	10.0	-9.0	20.0
Cyclohexane	Ave	0.4109	0.3468	0.1000	8.44	10.0	-15.6	20.0
Carbon tetrachloride	Ave	0.3550	0.3257	0.1000	9.17	10.0	-8.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-113568-1

SDG No.:

Lab Sample ID: CCVIS 410-340956/3 Calibration Date: 02/02/2023 10:53

Instrument ID: 16334 Calib Start Date: 01/18/2023 10:40

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 01/18/2023 12:53

Lab File ID: GF02X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1-Dichloropropene	Ave	0.3582	0.3177		8.87	10.0	-11.3	20.0
Isobutyl alcohol	Ave	0.0041	0.0045		561	500	12.1	20.0
Benzene	Ave	1.083	0.9619	0.5000	8.88	10.0	-11.2	20.0
1,2-Dichloroethane	Ave	0.3046	0.2825	0.1000	9.28	10.0	-7.2	20.0
t-Amyl methyl ether	Ave	0.6921	0.6717		9.70	10.0	-3.0	20.0
n-Heptane	Ave	0.3789	0.2979		7.86	10.0	-21.4*	20.0
n-Butanol	Ave	0.2974	0.3195		940	875	7.4	20.0
Trichloroethene	Ave	0.2925	0.2574	0.2000	8.80	10.0	-12.0	20.0
Methylcyclohexane	Ave	0.4478	0.3820	0.1000	8.53	10.0	-14.7	20.0
1,2-Dichloropropane	Ave	0.2818	0.2644	0.1000	9.38	10.0	-6.2	20.0
Methyl methacrylate	Ave	10.65	9.825		9.23	10.0	-7.7	20.0
1,4-Dioxane	Lin1		0.0592	0.0050	505	500	1.0	20.0
Dibromomethane	Ave	0.1354	0.1245		9.19	10.0	-8.1	20.0
Bromodichloromethane	Ave	0.3374	0.3235	0.2000	9.59	10.0	-4.1	20.0
2-Nitropropane	Ave	3.154	2.895		45.9	50.0	-8.2	20.0
1-Bromo-2-chloroethane	Ave	0.2928	0.2917		9.96	10.0	-0.4	20.0
cis-1,3-Dichloropropene	Ave	0.4167	0.3989	0.2000	9.57	10.0	-4.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	14.95	13.75	0.1000	92.0	100	-8.0	20.0
Toluene	Ave	0.9303	0.8235	0.4000	8.85	10.0	-11.5	20.0
trans-1,3-Dichloropropene	Ave	0.4816	0.4574	0.1000	9.50	10.0	-5.0	20.0
Ethyl methacrylate	Ave	0.3411	0.3570		10.5	10.0	4.7	20.0
1,1,2-Trichloroethane	Ave	0.2725	0.2499	0.1000	9.17	10.0	-8.3	20.0
Tetrachloroethene	Ave	0.4377	0.3802	0.2000	8.69	10.0	-13.1	20.0
1,3-Dichloropropane	Ave	0.4535	0.4250		9.37	10.0	-6.3	20.0
2-Hexanone	Ave	10.70	9.98	0.1000	93.3	100	-6.7	20.0
Dibromochloromethane	Ave	0.3222	0.3069		9.52	10.0	-4.8	20.0
1,2-Dibromoethane (EDB)	Ave	0.2513	0.2327	0.1000	9.26	10.0	-7.4	20.0
1-Chlorohexane	Ave	0.5295	0.4744		8.96	10.0	-10.4	20.0
Chlorobenzene	Ave	1.099	0.9791	0.5000	8.91	10.0	-10.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3661	0.3431		9.37	10.0	-6.3	20.0
Ethylbenzene	Ave	1.797	1.660	0.1000	9.23	10.0	-7.7	20.0
m&p-Xylene	Ave	0.6950	0.6460	0.1000	18.6	20.0	-7.0	20.0
o-Xylene	Ave	0.6728	0.6346	0.3000	9.43	10.0	-5.7	20.0
Styrene	Ave	1.081	1.074	0.3000	9.94	10.0	-0.6	20.0
Bromoform	Ave	0.1970	0.1867	0.1000	9.48	10.0	-5.2	20.0
Isopropylbenzene	Ave	1.740	1.645	0.1000	9.45	10.0	-5.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5951	0.5620	0.3000	9.44	10.0	-5.6	20.0
Bromobenzene	Ave	0.7760	0.7067		9.11	10.0	-8.9	20.0
trans-1,4-Dichloro-2-butene	Ave	6.017	3.871		64.3	100	-35.7*	20.0
1,2,3-Trichloropropane	Ave	0.1565	0.1463		9.35	10.0	-6.5	20.0
N-Propylbenzene	Ave	3.707	3.397		9.16	10.0	-8.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-113568-1

SDG No.:

Lab Sample ID: CCVIS 410-340956/3 Calibration Date: 02/02/2023 10:53

Instrument ID: 16334 Calib Start Date: 01/18/2023 10:40

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 01/18/2023 12:53

Lab File ID: GF02X02.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
2-Chlorotoluene	Ave	0.7572	0.6953		9.18	10.0	-8.2	20.0
1,3,5-Trimethylbenzene	Ave	2.620	2.489		9.50	10.0	-5.0	20.0
4-Chlorotoluene	Ave	0.7919	0.7285		9.20	10.0	-8.0	20.0
tert-Butylbenzene	Ave	0.5752	0.5305		9.22	10.0	-7.8	20.0
Pentachloroethane	Ave	0.4776	0.4556		9.54	10.0	-4.6	20.0
1,2,4-Trimethylbenzene	Ave	2.717	2.606		9.59	10.0	-4.1	20.0
sec-Butylbenzene	Ave	3.350	3.191		9.52	10.0	-4.8	20.0
1,3-Dichlorobenzene	Ave	1.607	1.466	0.6000	9.13	10.0	-8.7	20.0
p-Isopropyltoluene	Ave	2.956	2.841		9.61	10.0	-3.9	20.0
1,4-Dichlorobenzene	Ave	1.595	1.432	0.5000	8.98	10.0	-10.2	20.0
1,2,3-Trimethylbenzene	Ave	1.251	1.136		9.08	10.0	-9.2	20.0
Benzyl chloride	Ave	0.2315	0.2357		10.2	10.0	1.8	20.0
n-Butylbenzene	Ave	1.535	1.465		9.55	10.0	-4.5	20.0
1,2-Dichlorobenzene	Ave	1.500	1.385	0.4000	9.23	10.0	-7.7	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0806	0.0788	0.0500	9.78	10.0	-2.2	20.0
1,3,5-Trichlorobenzene	Ave	1.303	1.157		8.88	10.0	-11.2	20.0
1,2,4-Trichlorobenzene	Ave	1.139	1.042	0.2000	9.15	10.0	-8.5	20.0
Hexachlorobutadiene	Ave	0.5848	0.5351		9.15	10.0	-8.5	20.0
Naphthalene	Ave	1.861	1.726		9.28	10.0	-7.2	20.0
1,2,3-Trichlorobenzene	Ave	0.9894	0.8644		8.74	10.0	-12.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2400	0.2436		10.1	10.0	1.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0497	0.0508		10.2	10.0	2.1	20.0
Toluene-d8 (Surr)	Ave	1.321	1.316		9.96	10.0	-0.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4864	0.4948		10.2	10.0	1.7	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02X02.D
Lims ID: CCVIS VSTD10
Client ID:
Sample Type: CCVIS
Inject. Date: 02-Feb-2023 10:53:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076262-003
Misc. Info.: CCVIS VSTD10
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20230202-76262.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Feb-2023 08:25:40 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: DVW2 Date: 02-Feb-2023 11:22:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.904	1.904	0.000	100	934923	10.0	9.09	
5 Chloromethane	50	2.093	2.093	0.000	99	1132492	10.0	9.51	
6 Vinyl chloride	62	2.202	2.202	0.000	98	1062236	10.0	9.37	
7 Butadiene	39	2.215	2.215	0.000	91	1547495	10.0	17.4	
9 Bromomethane	94	2.532	2.532	0.000	90	687367	10.0	9.17	
10 Chloroethane	64	2.605	2.605	0.000	100	599114	10.0	9.21	
11 Dichlorofluoromethane	67	2.837	2.837	0.000	97	1387450	10.0	9.18	
12 Trichlorofluoromethane	101	2.904	2.904	0.000	97	1343423	10.0	9.39	
13 Ethyl ether	59	3.135	3.135	0.000	92	573848	10.0	9.43	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.227	3.227	0.000	92	859453	10.0	9.44	
17 Acrolein	56	3.300	3.300	0.000	99	4094399	500.0	458.4	
18 1,1-Dichloroethene	96	3.428	3.428	0.000	97	576870	10.0	8.20	
19 Acetone	43	3.458	3.458	0.000	100	1053871	100.0	93.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.471	3.471	0.000	92	575106	10.0	8.53	
21 Isopropyl alcohol	45	3.599	3.599	0.000	97	301919	200.0	192.3	
22 Iodomethane	142	3.611	3.611	0.000	100	996165	10.0	8.37	
23 Ethyl bromide	108	3.641	3.641	0.000	98	580845	10.0	9.37	
24 Carbon disulfide	76	3.714	3.714	0.000	99	1599463	10.0	7.62	
25 Methyl acetate	43	3.861	3.861	0.000	97	299812	10.0	10.3	M
27 3-Chloro-1-propene	41	3.891	3.891	0.000	92	980061	10.0	9.02	
29 Methylene Chloride	84	4.068	4.068	0.000	93	680337	10.0	8.69	
* 30 t-Butyl alcohol-d10 (IS)	65	4.074	4.074	0.000	99	200490	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.214	4.214	0.000	99	696512	200.0	161.1	
32 Acrylonitrile	53	4.391	4.391	0.000	100	380578	25.0	24.5	
33 Methyl tert-butyl ether	73	4.464	4.464	0.000	96	1830739	10.0	9.60	
34 trans-1,2-Dichloroethene	96	4.470	4.470	0.000	99	675819	10.0	8.49	
35 Hexane	57	4.897	4.897	0.000	94	783580	10.0	7.76	
37 1,1-Dichloroethane	63	5.135	5.135	0.000	96	1297015	10.0	9.20	
38 Isopropyl ether	45	5.196	5.196	0.000	95	2350235	10.0	9.64	
39 2-Chloro-1,3-butadiene	53	5.245	5.245	0.000	91	1010158	10.0	9.37	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.732	5.732	0.000	98	2198633	10.0	9.63	
41 2-Butanone (MEK)	43	5.933	5.933	0.000	100	2084887	100.0	94.7	
42 cis-1,2-Dichloroethene	96	5.970	5.970	0.000	83	776998	10.0	8.83	
43 2,2-Dichloropropane	77	5.988	5.988	0.000	89	1092669	10.0	9.45	
45 Propionitrile	54	6.025	6.025	0.000	99	1063179	200.0	201.7	
48 Methacrylonitrile	67	6.244	6.244	0.000	93	2066378	100.0	91.9	
49 Chlorobromomethane	128	6.299	6.299	0.000	92	354140	10.0	9.17	
50 Tetrahydrofuran	71	6.305	6.305	0.000	79	281787	50.0	45.3	
51 Chloroform	83	6.458	6.458	0.000	93	1305732	10.0	9.23	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.677	0.000	94	735825	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.677	6.677	0.000	98	1109291	10.0	9.10	
54 Cyclohexane	56	6.781	6.781	0.000	92	1047869	10.0	8.44	
55 Carbon tetrachloride	117	6.891	6.891	0.000	97	984135	10.0	9.17	
56 1,1-Dichloropropene	75	6.897	6.897	0.000	97	959846	10.0	8.87	
58 Isobutyl alcohol	41	7.061	7.061	0.000	93	687297	500.0	560.5	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.128	0.000	88	153336	10.0	10.2	
60 Benzene	78	7.159	7.159	0.000	97	2906054	10.0	8.88	
61 1,2-Dichloroethane	62	7.226	7.226	0.000	97	853615	10.0	9.28	
63 Tert-amyl methyl ether	73	7.354	7.354	0.000	99	2029237	10.0	9.70	
* 64 Fluorobenzene (IS)	96	7.567	7.567	0.000	99	3021152	10.0	10.0	
65 n-Heptane	43	7.579	7.579	0.000	93	899929	10.0	7.86	
67 n-Butanol	56	7.951	7.951	0.000	89	1121122	875.0	940.1	
68 Trichloroethene	95	8.043	8.043	0.000	98	777536	10.0	8.80	
69 Methylcyclohexane	83	8.348	8.348	0.000	93	1154033	10.0	8.53	
70 1,2-Dichloropropane	63	8.378	8.378	0.000	88	798916	10.0	9.38	
71 2-ethoxy-2-methyl butane	87	8.390	8.390	0.000	92	1147874	10.0	9.56	
72 Methyl methacrylate	69	8.463	8.463	0.000	91	393943	10.0	9.23	
73 1,4-Dioxane	88	8.476	8.476	0.000	34	118733	500.0	504.8	M
74 Dibromomethane	93	8.482	8.482	0.000	95	376039	10.0	9.19	
76 Dichlorobromomethane	83	8.726	8.726	0.000	99	977333	10.0	9.59	
77 2-Nitropropane	41	9.000	9.000	0.000	99	580388	50.0	45.9	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	99	881322	10.0	9.96	
81 cis-1,3-Dichloropropene	75	9.280	9.280	0.000	96	1205113	10.0	9.57	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	97	5511663	100.0	92.0	
$ 83 Toluene-d8 (Surr)	98	9.591	9.591	0.000	93	3033678	10.0	9.96	
84 Toluene	92	9.671	9.671	0.000	98	1897927	10.0	8.85	
85 trans-1,3-Dichloropropene	75	9.933	9.933	0.000	93	1054135	10.0	9.50	
86 Ethyl methacrylate	69	10.000	10.000	0.000	89	822816	10.0	10.5	
107 1,1,2-Trichloroethane	97	10.140	10.140	0.000	91	575985	10.0	9.17	
108 Tetrachloroethene	166	10.225	10.225	0.000	98	876260	10.0	8.69	
109 1,3-Dichloropropane	76	10.305	10.305	0.000	90	979502	10.0	9.37	
110 2-Hexanone	43	10.359	10.359	0.000	97	4003411	100.0	93.3	
112 Chlorodibromomethane	129	10.518	10.518	0.000	90	707368	10.0	9.52	
113 Ethylene Dibromide	107	10.628	10.628	0.000	99	536371	10.0	9.26	
* 114 Chlorobenzene-d5 (IS)	117	11.061	11.061	0.000	86	2304713	10.0	10.0	
115 1-Chlorohexane	91	11.073	11.073	0.000	98	1093300	10.0	8.96	
116 Chlorobenzene	112	11.091	11.091	0.000	96	2256560	10.0	8.91	
117 1,1,1,2-Tetrachloroethane	131	11.176	11.176	0.000	96	790850	10.0	9.37	
118 Ethylbenzene	91	11.176	11.176	0.000	98	3825122	10.0	9.23	
120 m-Xylene & p-Xylene	106	11.292	11.292	0.000	100	2977716	20.0	18.6	
121 o-Xylene	106	11.621	11.621	0.000	96	1462544	10.0	9.43	
122 Styrene	104	11.640	11.640	0.000	95	2475425	10.0	9.94	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
123 Bromoform	173	11.792	11.792	0.000	97	430347	10.0	9.48	
124 Isopropylbenzene	105	11.920	11.920	0.000	96	3791958	10.0	9.45	
$ 127 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	91	1140276	10.0	10.2	
128 1,1,2,2-Tetrachloroethane	83	12.170	12.170	0.000	93	764659	10.0	9.44	
129 Bromobenzene	156	12.182	12.182	0.000	96	961641	10.0	9.11	
130 trans-1,4-Dichloro-2-butene	53	12.194	12.194	0.000	94	1552120	100.0	64.3	
131 1,2,3-Trichloropropane	110	12.213	12.213	0.000	81	199064	10.0	9.35	
132 N-Propylbenzene	91	12.249	12.249	0.000	99	4622143	10.0	9.16	
133 2-Chlorotoluene	126	12.329	12.329	0.000	97	946101	10.0	9.18	
134 1,3,5-Trimethylbenzene	105	12.390	12.390	0.000	94	3386775	10.0	9.50	
135 4-Chlorotoluene	126	12.420	12.420	0.000	97	991210	10.0	9.20	
136 tert-Butylbenzene	134	12.627	12.627	0.000	93	721821	10.0	9.22	
137 Pentachloroethane	167	12.658	12.658	0.000	93	619985	10.0	9.54	
138 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	97	3546602	10.0	9.59	
139 sec-Butylbenzene	105	12.792	12.792	0.000	94	4341684	10.0	9.52	
140 1,3-Dichlorobenzene	146	12.889	12.889	0.000	98	1995195	10.0	9.13	
141 4-Isopropyltoluene	119	12.896	12.896	0.000	97	3865283	10.0	9.61	
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	93	1360710	10.0	10.0	
143 1,4-Dichlorobenzene	146	12.963	12.963	0.000	95	1948387	10.0	8.98	
144 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	99	1545228	10.0	9.08	
145 Benzyl chloride	126	13.036	13.036	0.000	99	320697	10.0	10.2	
146 p-Diethylbenzene	119	13.097	13.097	0.000	91	2284804	10.0	9.42	
147 n-Butylbenzene	92	13.188	13.188	0.000	97	1993636	10.0	9.55	
148 1,2-Dichlorobenzene	146	13.219	13.219	0.000	98	1885183	10.0	9.23	
150 1,2-Dibromo-3-Chloropropane	155	13.755	13.755	0.000	86	107211	10.0	9.78	
151 1,3,5-Trichlorobenzene	180	13.883	13.883	0.000	98	1574403	10.0	8.88	
152 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	1417570	10.0	9.15	
153 Hexachlorobutadiene	225	14.383	14.383	0.000	97	728124	10.0	9.15	
154 Naphthalene	128	14.481	14.481	0.000	97	2349247	10.0	9.28	
155 1,2,3-Trichlorobenzene	180	14.621	14.621	0.000	96	1176220	10.0	8.74	
156 2-Methylnaphthalene	142	15.224	15.224	0.000	92	1252218	10.0	8.38	
167 Pentane	43	2.928	2.928	0.000	96	790526	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00065	Amount Added: 20.00	Units: uL	
MSV_LL_GAS826_00134	Amount Added: 20.00	Units: uL	
MSV_LL_#2_826_00073	Amount Added: 20.00	Units: uL	
MSV_29_826ISS_00037	Amount Added: 1.00	Units: uL	Run Reagent

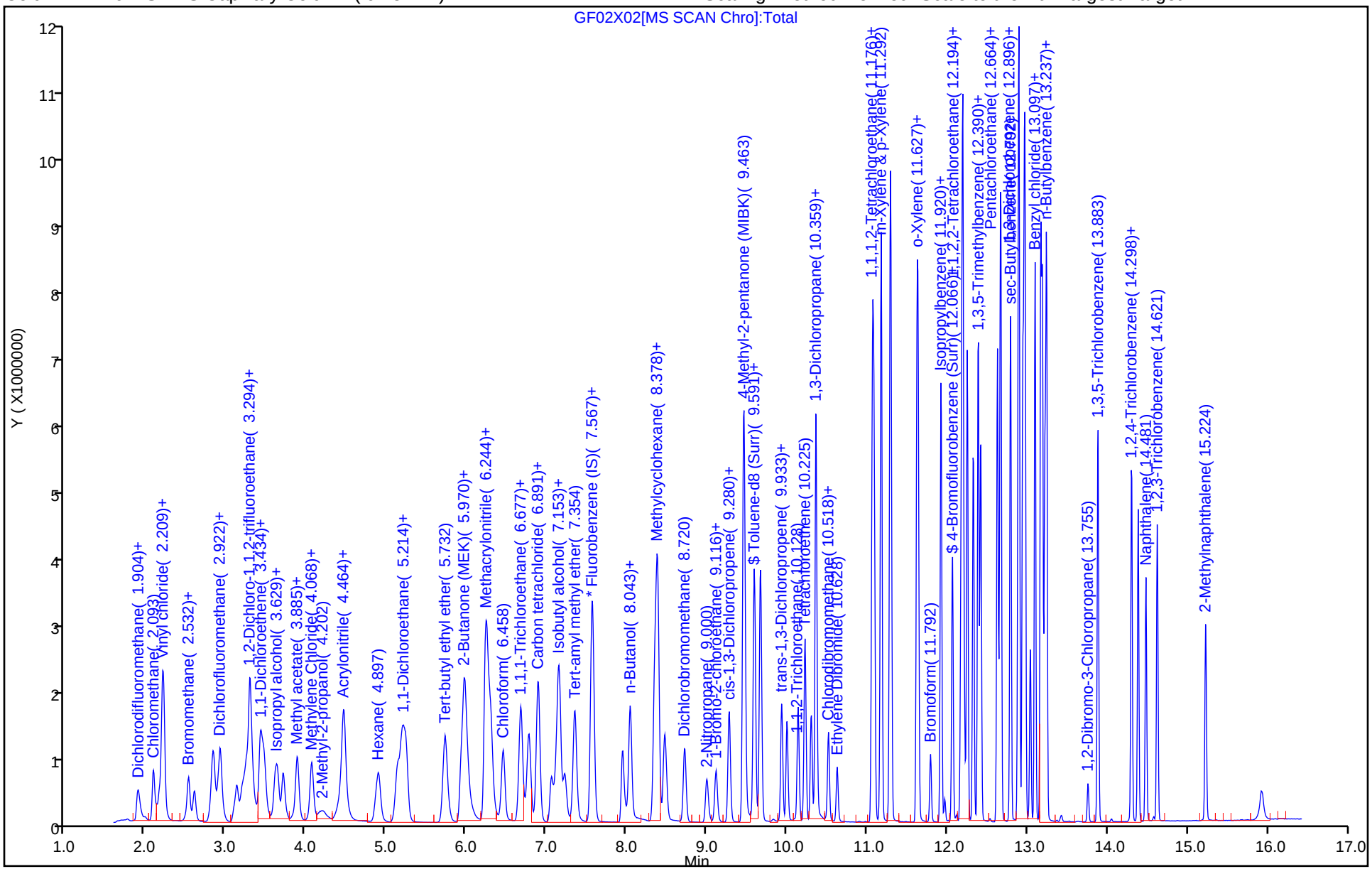
Report Date: 03-Feb-2023 08:25:42 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02X02.D

Injection Date:	02-Feb-2023 10:53:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	CCVIS VSTD10			Worklist Smp#:	3
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSV_16334_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: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

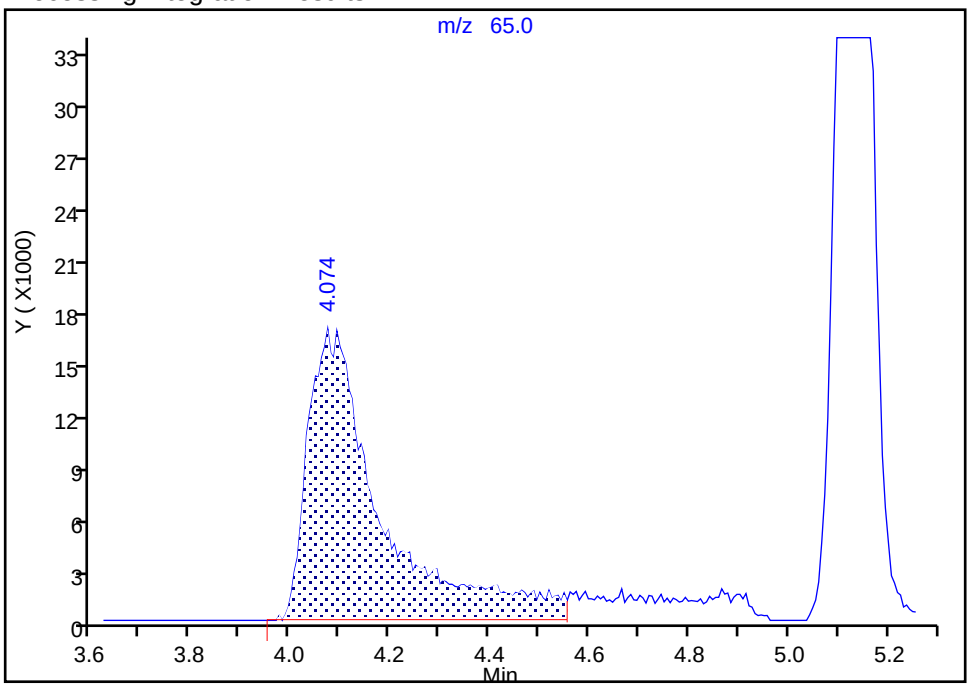
Data File:	\\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02X02.D				
Injection Date:	02-Feb-2023 10:53:30	Instrument ID:	16334		
Lims ID:	CCVIS VSTD10				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

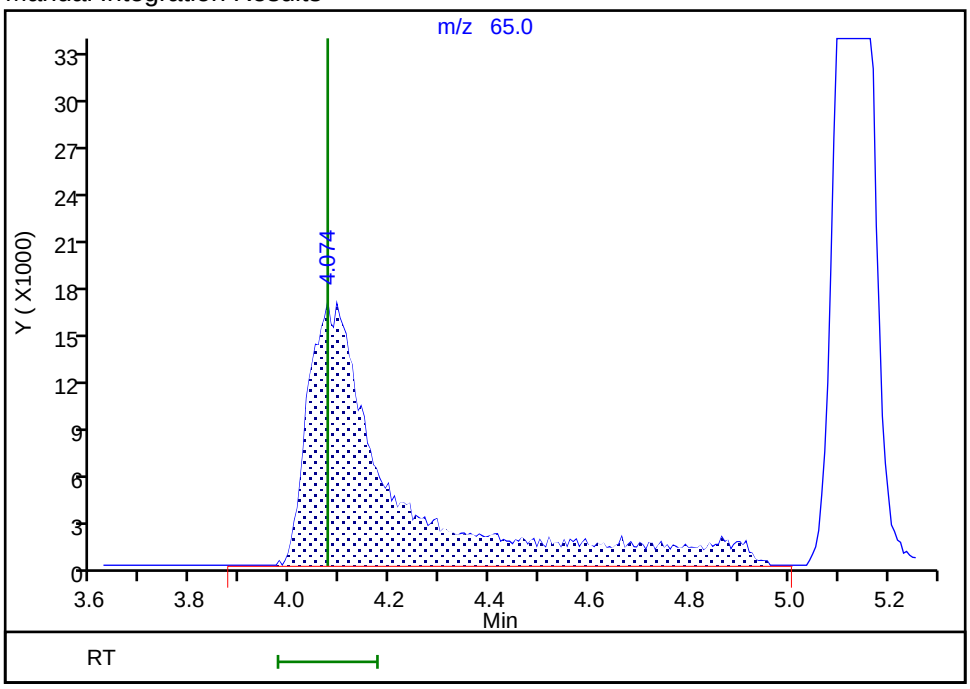
Processing Integration Results

RT: 4.07
Area: 171450
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.07
Area: 200490
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 02-Feb-2023 11:17:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

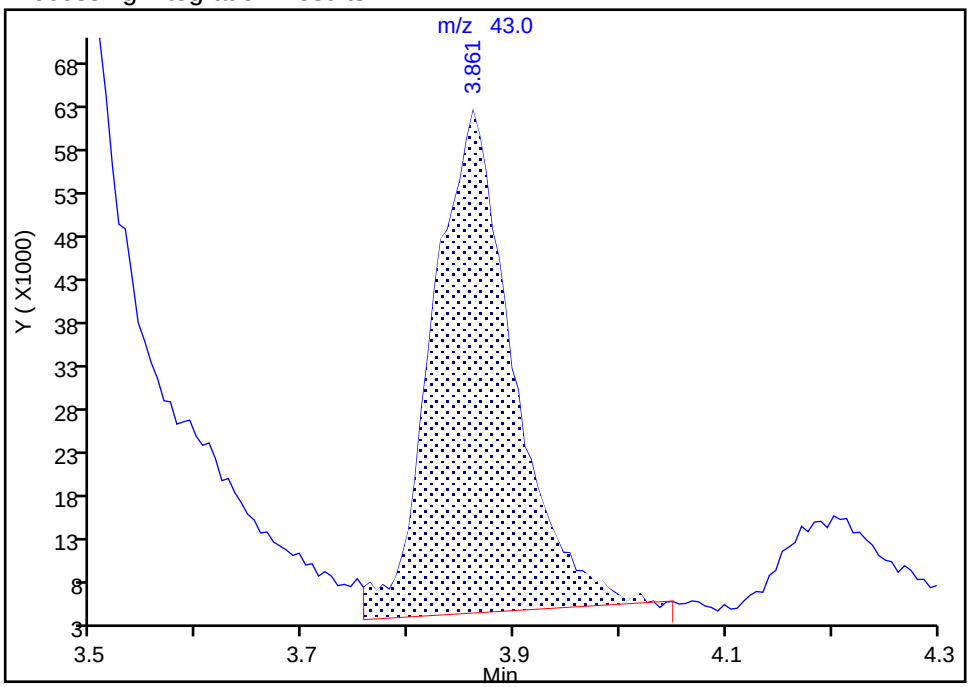
Data File:	\\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02X02.D				
Injection Date:	02-Feb-2023 10:53:30	Instrument ID:	16334		
Lims ID:	CCVIS VSTD10				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Methyl acetate, CAS: 79-20-9

Signal: 1

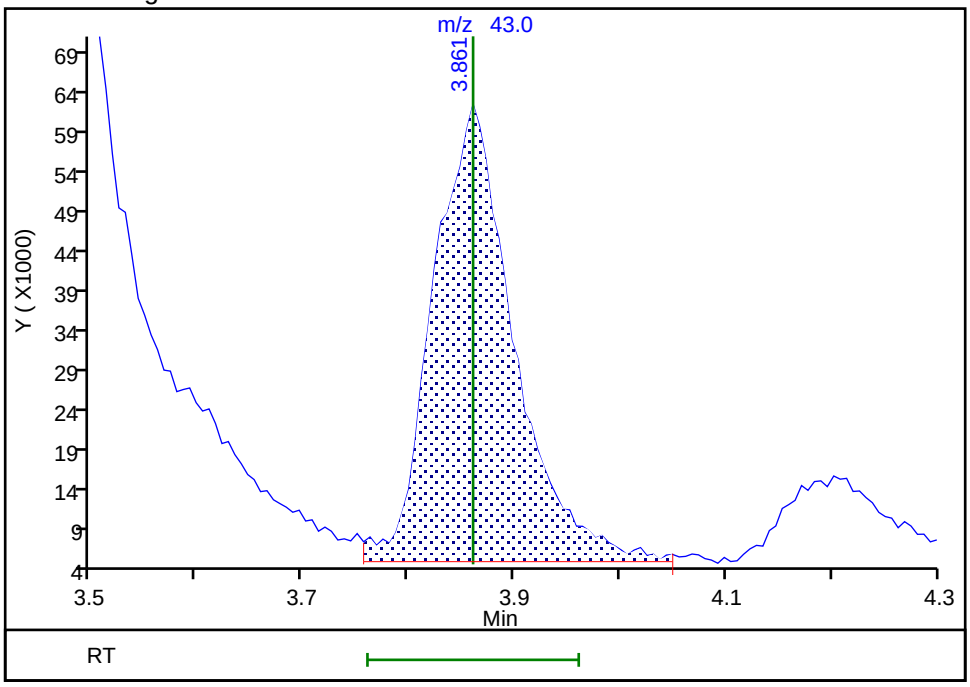
Processing Integration Results

RT: 3.86
Area: 306049
Amount: 12.338838
Amount Units: ug/l



Manual Integration Results

RT: 3.86
Area: 299812
Amount: 10.309386
Amount Units: ug/l



Reviewer: DVW2, 02-Feb-2023 11:17:08
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

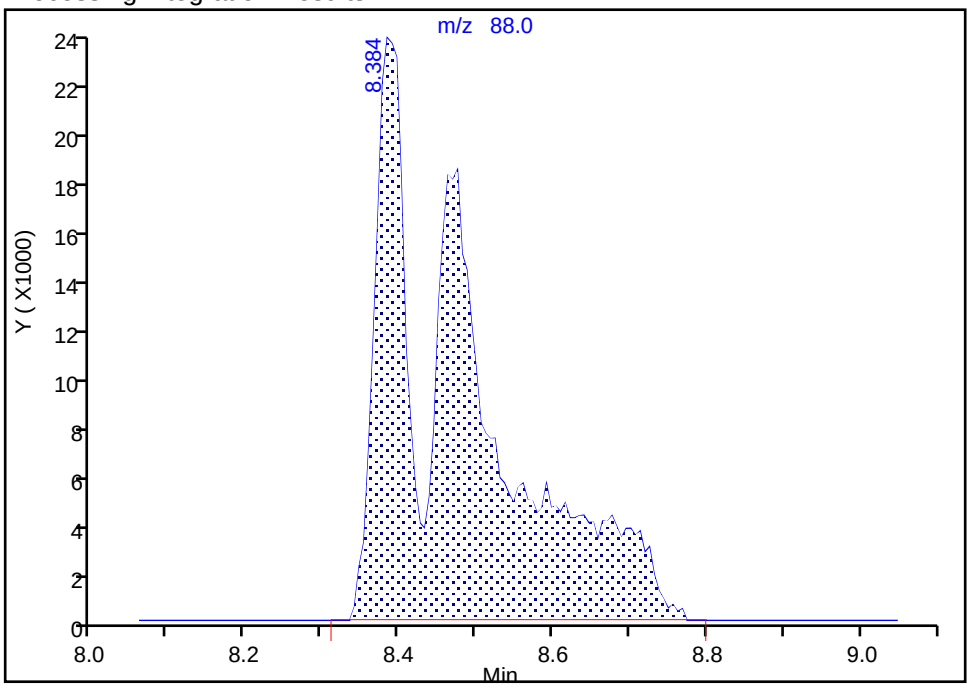
Data File:	\\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02X02.D				
Injection Date:	02-Feb-2023 10:53:30	Instrument ID:	16334		
Lims ID:	CCVIS VSTD10				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

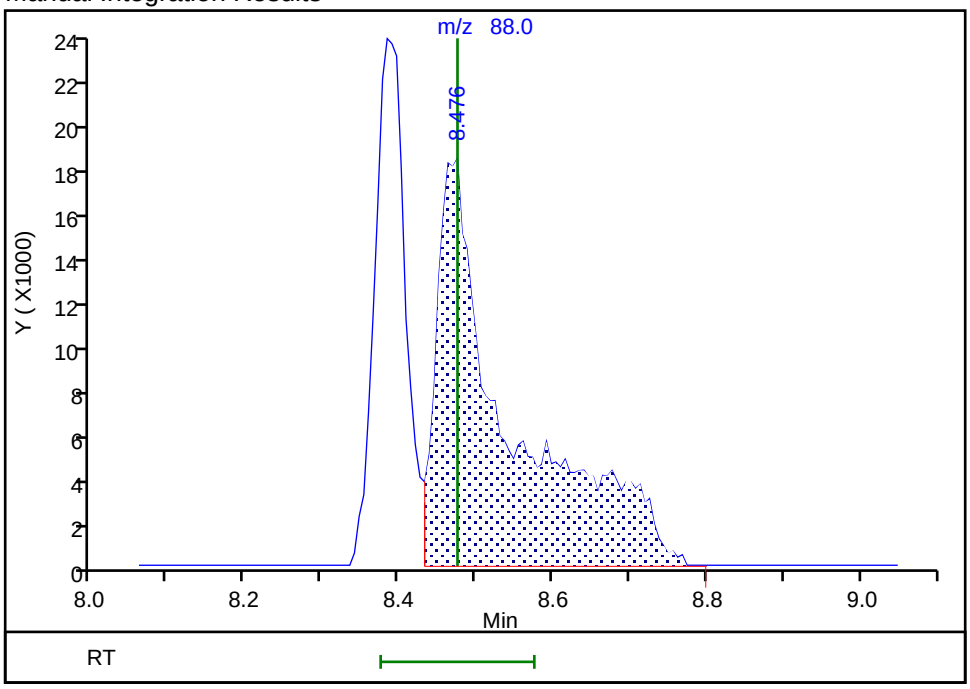
Processing Integration Results

RT: 8.38
Area: 182965
Amount: 777.3737
Amount Units: ug/l



Manual Integration Results

RT: 8.48
Area: 118733
Amount: 504.7691
Amount Units: ug/l



Reviewer: DVW2, 02-Feb-2023 11:17:51
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18T01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 18-Jan-2023 09:58:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0075310-001
Misc. Info.: bfb
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 18-Jan-2023 15:05:07 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: DVW2 Date: 18-Jan-2023 10:16:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 167 BFB	95	5.109	5.109	0.000	0	395655	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

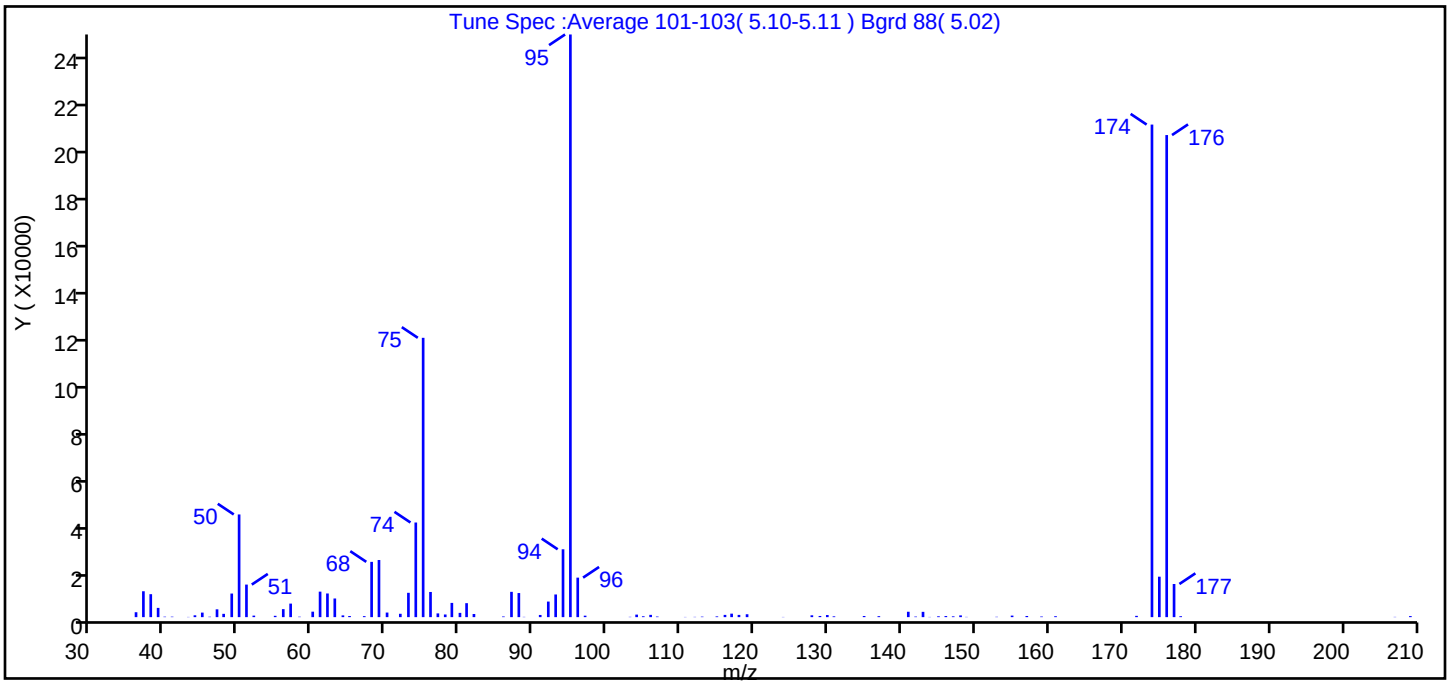
MSV_V_BFB_00011 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18T01.D
Injection Date: 18-Jan-2023 09:58:30 Instrument ID: 16334
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_16334_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 167 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.6
75	30 to 60% of m/z 95	47.9
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	84.5
175	5 to 9% of m/z 174	6.9 (8.2)
176	Greater than 95% but less than 101% of m/z 174	82.7 (97.9)
177	5 to 9% of m/z 176	5.7 (6.9)

Data File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18T01.D\MSV_16334_25mL.rslt\spectra.d
Injection Date: 18-Jan-2023 09:58:30
Spectrum: Tune Spec :Average 101-103(5.10-5.11) Bgrd 88(5.02)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 94

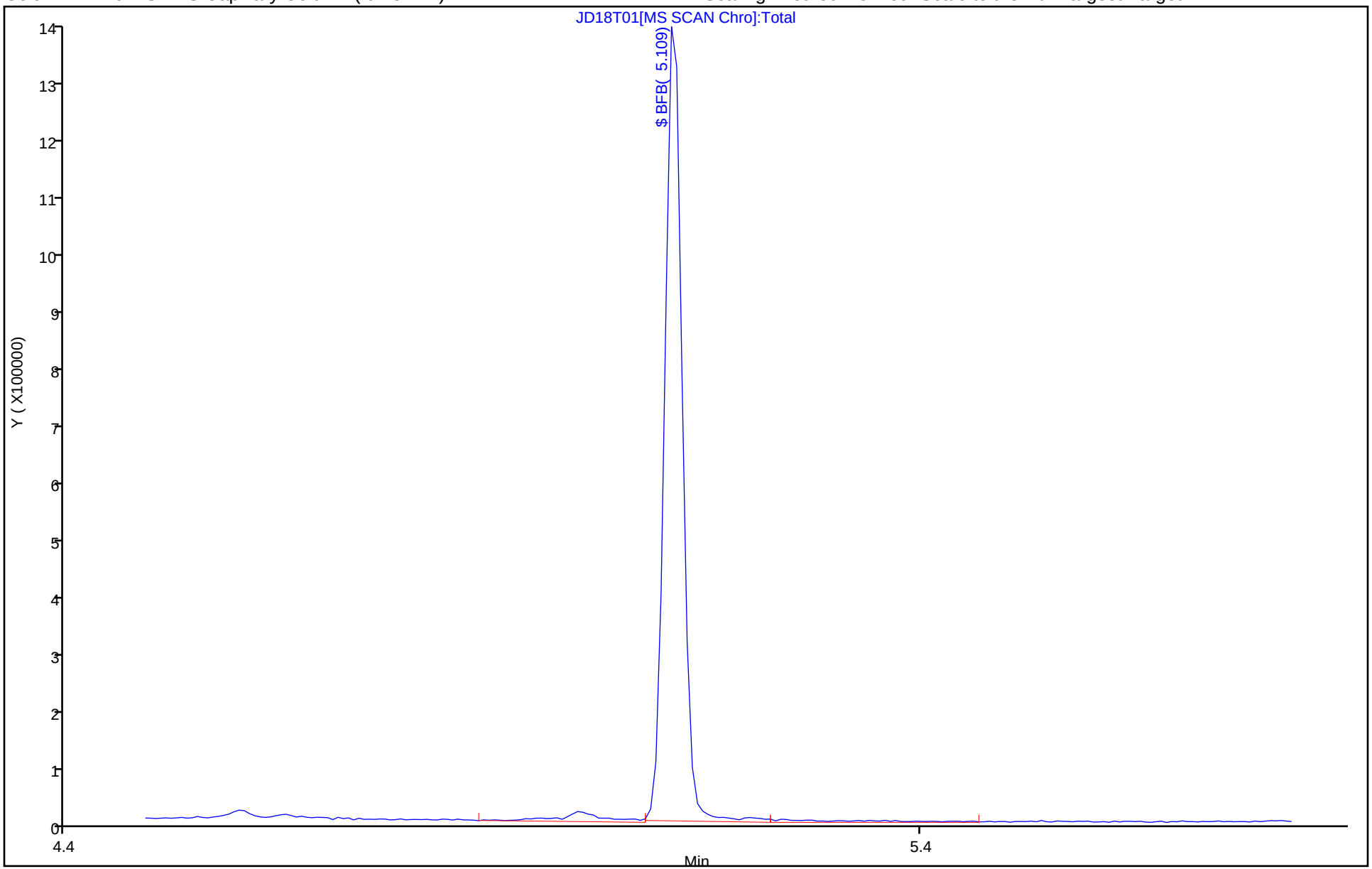
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2074	64.00	736	94.00	28584	141.00	2270
37.00	10907	65.00	476	95.00	245440	142.00	239
38.00	9674	67.00	417	96.00	16640	143.00	2234
39.00	3898	68.00	23288	97.00	616	144.00	88
40.00	193	69.00	24064	103.00	126	145.00	354
41.00	199	70.00	1931	104.00	1067	146.00	462
43.00	89	72.00	1417	105.00	365	147.00	334
44.00	774	73.00	10248	106.00	964	148.00	737
45.00	1913	74.00	39864	107.00	245	149.00	99
46.00	178	75.00	117664	111.00	83	153.00	144
47.00	3295	76.00	10603	112.00	110	155.00	650
48.00	1393	77.00	1578	113.00	213	157.00	483
49.00	9941	78.00	1119	115.00	318	159.00	258
50.00	43256	79.00	5999	116.00	949	161.00	390
51.00	13713	80.00	1799	117.00	1472	172.00	542
52.00	643	81.00	5886	118.00	943	174.00	207488
55.00	562	82.00	1326	119.00	1217	175.00	17040
56.00	3373	86.00	277	124.00	84	176.00	203072
57.00	5704	87.00	10659	128.00	774	177.00	13961
58.00	185	88.00	10148	129.00	493	178.00	382
60.00	2308	89.00	111	130.00	886	207.00	107
61.00	10740	91.00	919	131.00	333	209.00	441
62.00	9967	92.00	6562	135.00	472		
63.00	7858	93.00	9549	137.00	405		

Report Date: 18-Jan-2023 15:05:08 Chrom Revision: 2.3 09-Jan-2023 13:34:20

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18T01.D				
Injection Date:	18-Jan-2023 09:58:30	Instrument ID:	16334	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_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31T01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	31-Jan-2023 10:15:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0076112-001				
Misc. Info.:	BFB				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	31-Jan-2023 13:42:45	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1653				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 168 BFB	95	5.109	5.109	0.000	0	230613	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

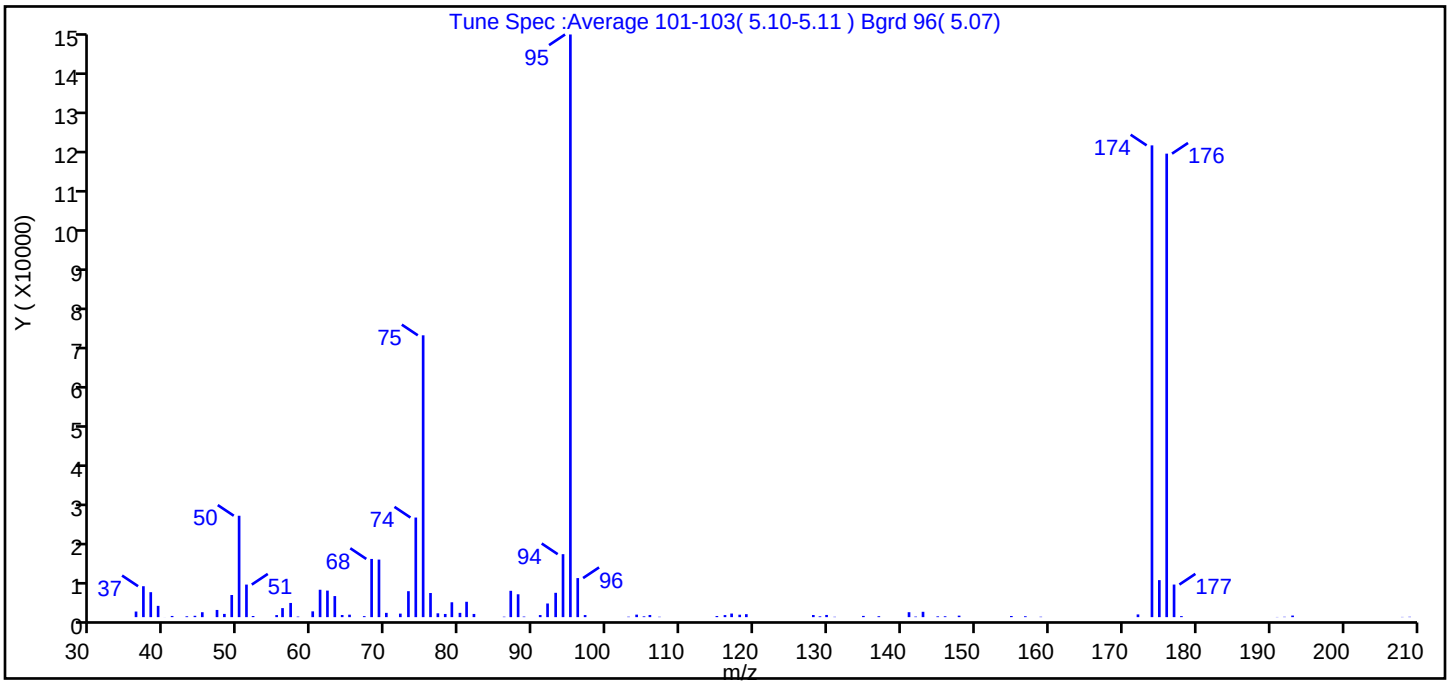
MSV_V_BFB_00011 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31T01.D
Injection Date: 31-Jan-2023 10:15:30 Instrument ID: 16334
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_16334_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	48.4
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	81.0
175	5 to 9% of m/z 174	6.4 (7.8)
176	Greater than 95% but less than 101% of m/z 174	79.5 (98.2)
177	5 to 9% of m/z 176	5.6 (7.0)

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31T01.D\MSV_16334_25mL.rslt\spectra.d
Injection Date: 31-Jan-2023 10:15:30
Spectrum: Tune Spec :Average 101-103(5.10-5.11) Bgrd 96(5.07)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 87

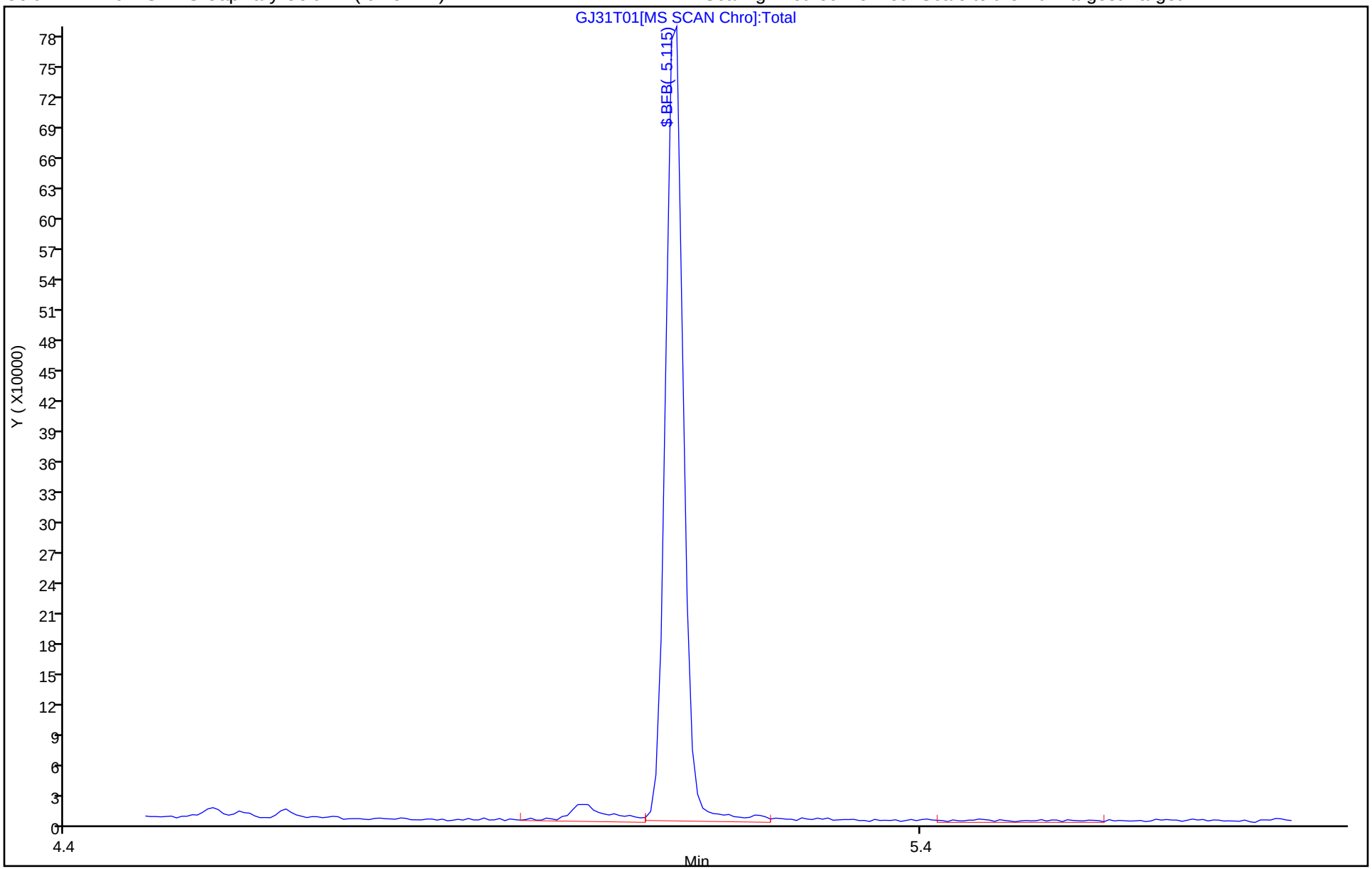
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1353	63.00	5077	91.00	504	137.00	225
37.00	7450	64.00	514	92.00	3289	141.00	1191
38.00	6013	65.00	593	93.00	5863	142.00	138
39.00	2716	67.00	243	94.00	15170	143.00	1290
40.00	11	68.00	14020	95.00	140352	145.00	192
41.00	288	69.00	13864	96.00	9411	146.00	212
43.00	210	70.00	1033	97.00	500	148.00	359
44.00	326	72.00	850	103.00	106	155.00	273
45.00	1187	73.00	6253	104.00	606	157.00	218
47.00	1733	74.00	23992	105.00	195	159.00	98
48.00	781	75.00	67888	106.00	521	172.00	656
49.00	5329	76.00	5814	107.00	89	174.00	113640
50.00	24424	77.00	926	115.00	272	175.00	8914
51.00	7842	78.00	767	116.00	497	176.00	111648
52.00	273	79.00	3583	117.00	868	177.00	7852
55.00	495	80.00	1032	118.00	587	178.00	248
56.00	2176	81.00	3702	119.00	715	191.00	43
57.00	3418	82.00	771	128.00	512	192.00	86
58.00	133	86.00	107	129.00	193	193.00	382
60.00	1397	87.00	6343	130.00	529	208.00	53
61.00	6599	88.00	5508	131.00	83	209.00	86
62.00	6393	89.00	138	135.00	297		

Report Date: 31-Jan-2023 13:42:45 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31T01.D				
Injection Date:	31-Jan-2023 10:15:30	Instrument ID:	16334	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_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02T01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	02-Feb-2023 10:14:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	BFB				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230202-76262.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	02-Feb-2023 12:22:07	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1644				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 168 BFB	95	5.103	5.103	0.000	0	365431	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

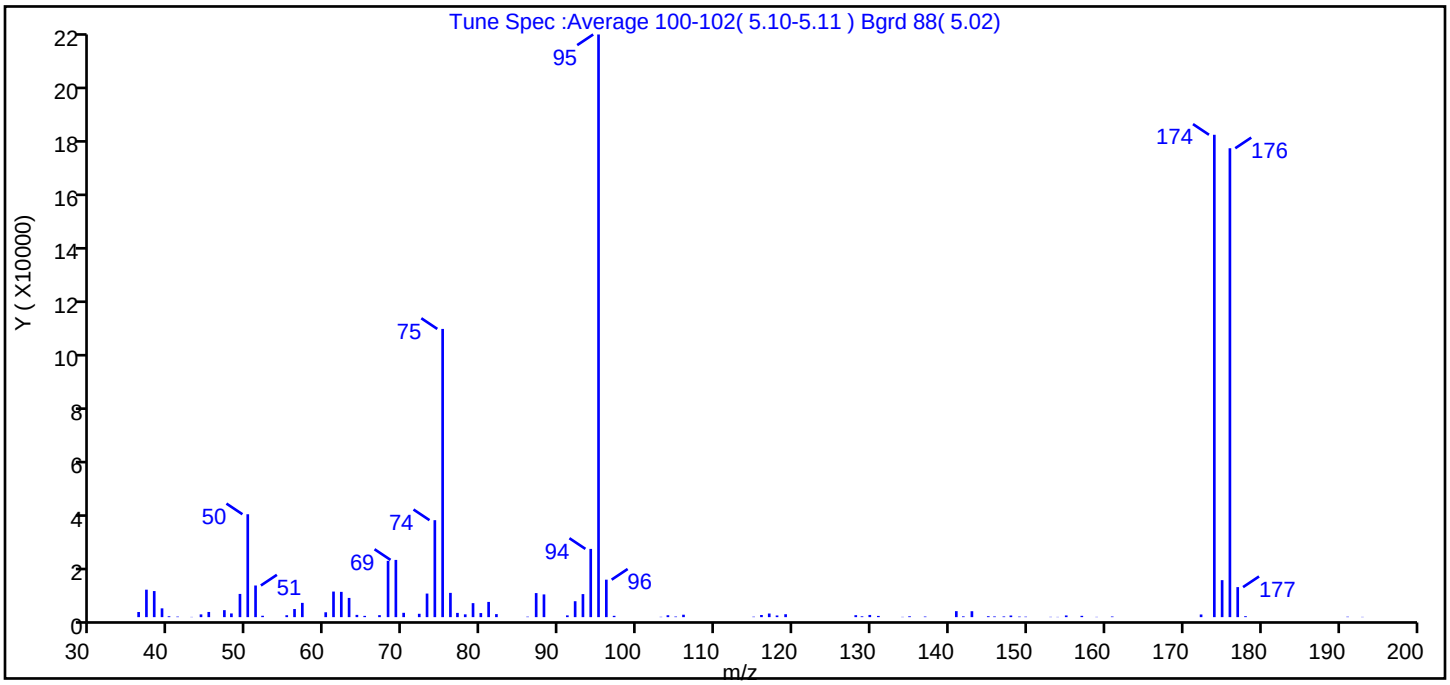
MSV_V_BFB_00011 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02T01.D
Injection Date: 02-Feb-2023 10:14:30 Instrument ID: 16334
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_16334_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	17.7
75	30 to 60% of m/z 95	49.5
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	82.8
175	5 to 9% of m/z 174	6.3 (7.7)
176	Greater than 95% but less than 101% of m/z 174	80.5 (97.2)
177	5 to 9% of m/z 176	5.2 (6.4)

Data File: \\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02T01.D\MSV_16334_25mL.rslt\spectra.d
Injection Date: 02-Feb-2023 10:14:30
Spectrum: Tune Spec :Average 100-102(5.10-5.11) Bgrd 88(5.02)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 88

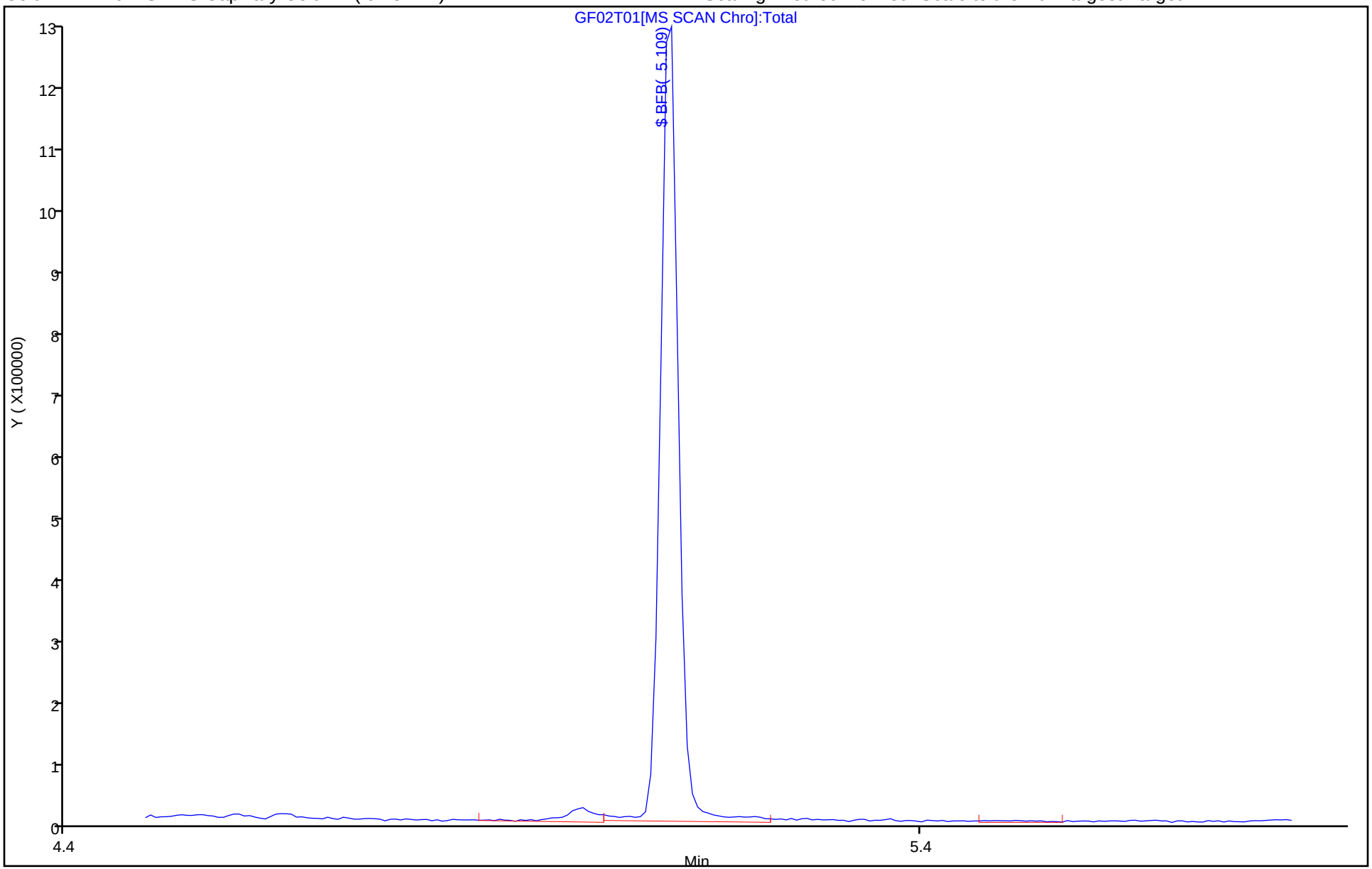
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1927	64.00	852	93.00	8648	142.00	286
37.00	10308	65.00	478	94.00	25608	143.00	2227
38.00	9786	67.00	744	95.00	218624	145.00	340
39.00	3302	68.00	21120	96.00	14060	146.00	263
40.00	321	69.00	21472	97.00	496	147.00	263
41.00	201	70.00	1626	103.00	119	148.00	615
43.00	85	72.00	1258	104.00	711	149.00	204
44.00	1030	73.00	8848	105.00	225	150.00	179
45.00	1945	74.00	36384	106.00	913	153.00	113
47.00	2623	75.00	108144	115.00	171	154.00	90
48.00	1393	76.00	9106	116.00	805	155.00	635
49.00	8712	77.00	1591	117.00	1358	157.00	493
50.00	38608	78.00	1051	118.00	627	159.00	100
51.00	11874	79.00	5254	119.00	1092	161.00	238
52.00	519	80.00	1529	128.00	736	172.00	998
55.00	718	81.00	5714	129.00	307	174.00	180992
56.00	3044	82.00	1140	130.00	823	175.00	13881
57.00	5355	86.00	177	131.00	462	176.00	175936
60.00	1828	87.00	9024	134.00	101	177.00	11268
61.00	9599	88.00	8529	135.00	316	178.00	357
62.00	9486	91.00	660	137.00	226	191.00	159
63.00	7209	92.00	5974	141.00	2253	193.00	94

Report Date: 02-Feb-2023 12:22:07 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02T01.D				
Injection Date:	02-Feb-2023 10:14:30	Instrument ID:	16334	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_16334_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: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-113568-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-340101/6

Matrix: Water Lab File ID: GJ31X05.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 01/31/2023 11:56

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.: 340101 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 Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-340101/6

Matrix: Water
Lab File ID: GJ31X05.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 11:56

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.: 340101
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)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 31-Jan-2023 11:56:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076112-006
Misc. Info.: MB
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Feb-2023 09:07:22 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1655

First Level Reviewer: DVW2 Date: 31-Jan-2023 12:26:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.867					ND	
2 Dichlorodifluoromethane	85		1.898					ND	
3 Chlorodifluoromethane	51		1.916					ND	7
4 Dimethyl ether	45		1.983					ND	7
5 Chloromethane	50		2.093					ND	
6 Vinyl chloride	62		2.203					ND	
7 Butadiene	39		2.221					ND	7
8 2-Chloro-1,1,1-Trifluoroethane	118		2.294					ND	
9 Bromomethane	94		2.532					ND	
10 Chloroethane	64		2.605					ND	
11 Dichlorofluoromethane	67		2.843					ND	
12 Trichlorofluoromethane	101		2.904					ND	
13 Ethyl ether	59		3.129					ND	
14 Ethanol	45		3.190					ND	
16 1,2-Dichloro-1,1,2-trifluoroetha	67		3.227					ND	
17 Acrolein	56		3.294					ND	7
18 1,1-Dichloroethene	96		3.428					ND	
19 Acetone	43		3.452					ND	7
20 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.471					ND	
21 Isopropyl alcohol	45		3.599					ND	
22 Iodomethane	142		3.617					ND	
23 Ethyl bromide	108		3.641					ND	
24 Carbon disulfide	76		3.714					ND	7
25 Methyl acetate	43		3.842					ND	
26 Acetonitrile	41		3.873					ND	
27 3-Chloro-1-propene	41		3.885					ND	
29 Methylene Chloride	84		4.068					ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.105	4.074	0.031	1	212840	50.0	50.0	
31 2-Methyl-2-propanol	59		4.208					ND	U
32 Acrylonitrile	53		4.391					ND	
33 Methyl tert-butyl ether	73		4.464					ND	

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	34 trans-1,2-Dichloroethene	96		4.464				ND		
	35 Hexane	57		4.891				ND		
	36 Vinyl acetate	43		5.123				ND		
	37 1,1-Dichloroethane	63		5.135				ND		
	38 Isopropyl ether	45		5.196				ND		
	39 2-Chloro-1,3-butadiene	53		5.245				ND		
	40 Tert-butyl ethyl ether	59		5.732				ND		
	41 2-Butanone (MEK)	43		5.940				ND		
	42 cis-1,2-Dichloroethene	96		5.970				ND		
	43 2,2-Dichloropropane	77		5.988				ND		
	44 Ethyl acetate	43		6.007				ND		
	45 Propionitrile	54		6.025				ND		
	46 Methyl acrylate	55		6.141				ND		
S	47 1,2-Dichloroethene, Total	100		6.155				ND		7
	48 Methacrylonitrile	67		6.244				ND		
	49 Chlorobromomethane	128		6.299				ND		
	50 Tetrahydrofuran	71		6.305				ND		
	51 Chloroform	83		6.452				ND		
$	52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	94	692263	10.0	10.1	
	53 1,1,1-Trichloroethane	97		6.683				ND		
	54 Cyclohexane	56		6.775				ND		
	56 1,1-Dichloropropene	75		6.897				ND		
	55 Carbon tetrachloride	117		6.897				ND		
	57 1-Chlorobutane	56		6.940				ND		
	58 Isobutyl alcohol	41		7.061				ND		
$	59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.122	0.006	18	148794	10.0	10.5	
	60 Benzene	78		7.159				ND		
	61 1,2-Dichloroethane	62		7.226				ND		
	62 Isopropyl acetate	43		7.244				ND		
	63 Tert-amyl methyl ether	73		7.348				ND		
*	64 Fluorobenzene (IS)	96	7.567	7.561	0.006	99	2841819	10.0	10.0	
	65 n-Heptane	43		7.580				ND		7
	66 t-Amyl alcohol	73		7.842				ND		
	67 n-Butanol	56		7.951				ND		
	68 Trichloroethene	95		8.043				ND		
	69 Methylcyclohexane	83		8.348				ND		
	70 1,2-Dichloropropane	63		8.378				ND		
	71 2-ethoxy-2-methyl butane	87		8.390				ND		
	72 Methyl methacrylate	69		8.464				ND		
	73 1,4-Dioxane	88		8.476				ND		
	74 Dibromomethane	93		8.482				ND		
	75 n-Propyl acetate	61		8.549				ND		
	76 Dichlorobromomethane	83		8.726				ND		
	77 2-Nitropropane	41		9.000				ND		
	78 2-Chloroethyl vinyl ether	63		9.098				ND		
	79 1-Bromo-2-chloroethane	63		9.116				ND		
	80 Chloroacetonitrile	75		9.189				ND		
	81 cis-1,3-Dichloropropene	75		9.280				ND		
	82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND		
$	83 Toluene-d8 (Surr)	98	9.597	9.591	0.006	94	2807091	10.0	9.91	
	84 Toluene	92		9.671				ND		
	85 trans-1,3-Dichloropropene	75		9.933				ND		7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 Ethyl methacrylate	69		10.000					ND	
S 106 1,3-Dichloropropene, Total	100		10.060					ND	7
107 1,1,2-Trichloroethane	97		10.140					ND	
108 Tetrachloroethene	166		10.225					ND	
109 1,3-Dichloropropane	76		10.305					ND	
110 2-Hexanone	43		10.359					ND	
111 n-Butyl acetate	43		10.487					ND	
112 Chlorodibromomethane	129		10.518					ND	
113 Ethylene Dibromide	107		10.628					ND	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	86	2143767	10.0	10.0	
115 1-Chlorohexane	91		11.079					ND	7
116 Chlorobenzene	112		11.091					ND	
117 1,1,1,2-Tetrachloroethane	131		11.176					ND	
118 Ethylbenzene	91		11.176					ND	
S 119 Xylenes, Total	106		11.245					ND	7
120 m-Xylene & p-Xylene	106		11.292					ND	
121 o-Xylene	106		11.621					ND	
122 Styrene	104		11.640					ND	
123 Bromoform	173		11.792					ND	
124 Isopropylbenzene	105		11.926					ND	
125 cis-1,4-Dichloro-2-butene	88		11.987					ND	
126 Cyclohexanone	55		12.018					ND	7
$ 127 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	91	1030493	10.0	9.88	
128 1,1,2,2-Tetrachloroethane	83		12.170					ND	
129 Bromobenzene	156		12.182					ND	
130 trans-1,4-Dichloro-2-butene	53		12.194					ND	
131 1,2,3-Trichloropropane	110		12.213					ND	
132 N-Propylbenzene	91		12.249					ND	
133 2-Chlorotoluene	126		12.329					ND	
134 1,3,5-Trimethylbenzene	105		12.390					ND	
135 4-Chlorotoluene	126		12.420					ND	
136 tert-Butylbenzene	134		12.627					ND	
137 Pentachloroethane	167		12.658					ND	
138 1,2,4-Trimethylbenzene	105		12.670					ND	
139 sec-Butylbenzene	105		12.792					ND	
140 1,3-Dichlorobenzene	146		12.889					ND	7
141 4-Isopropyltoluene	119		12.896					ND	7
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	1235957	10.0	10.0	
143 1,4-Dichlorobenzene	146		12.963					ND	7
144 1,2,3-Trimethylbenzene	120		12.975					ND	7
145 Benzyl chloride	126		13.042					ND	7
146 p-Diethylbenzene	119		13.097					ND	U
147 n-Butylbenzene	92		13.188					ND	7
148 1,2-Dichlorobenzene	146		13.219					ND	
149 Hexachloroethane	201		13.499					ND	
150 1,2-Dibromo-3-Chloropropane	155		13.761					ND	
151 1,3,5-Trichlorobenzene	180		13.883					ND	7
152 1,2,4-Trichlorobenzene	180		14.304					ND	7
153 Hexachlorobutadiene	225		14.389					ND	7
154 Naphthalene	128		14.481					ND	7
155 1,2,3-Trichlorobenzene	180		14.621					ND	7
156 2-Methylnaphthalene	142	15.230	15.224	0.006	89	5681		0.0419	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
157 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
158 1-Chloropropane	1		0.000					ND	
159 1-Bromo-3-Chloropropane	1		0.000					ND	
160 Propene oxide	1		0.000					ND	
161 n-Decane	57		0.000					ND	
162 Methylal	1		0.000					ND	
163 tert-Butyl Formate	1		0.000					ND	
164 1,1-Dichloroacetone	1		0.000					ND	
165 Dodecane	57		0.000					ND	
166 2-Bromo-1-chloropropane	1		0.000					ND	
167 Pentane	43	2.879	2.928	-0.049	1	403			NR

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected

Reagents:

MSV_29_826ISS_00037 Amount Added: 1.00 Units: uL Run Reagent

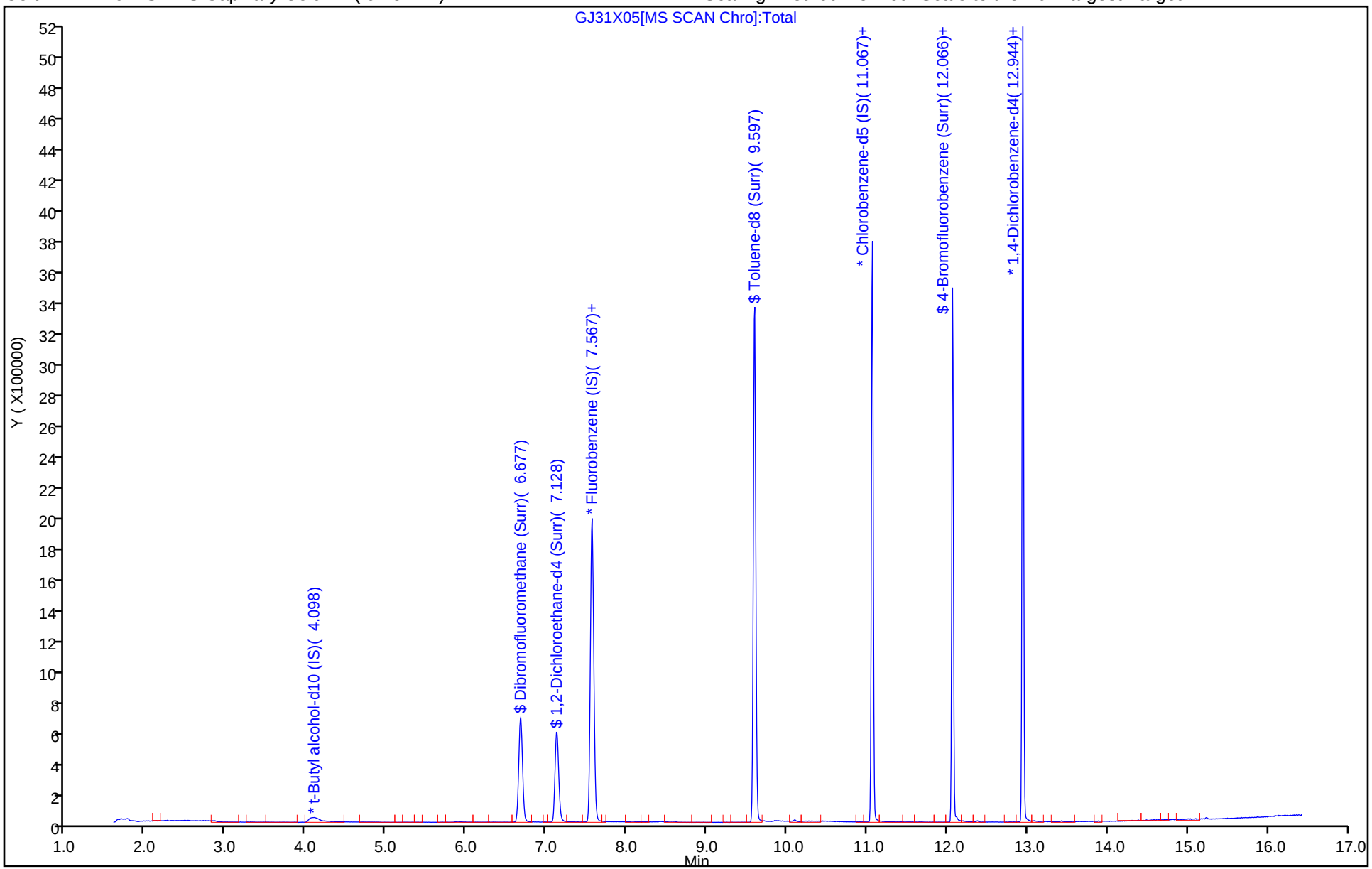
Report Date: 01-Feb-2023 09:07:23 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X05.D

Injection Date:	31-Jan-2023 11:56:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 31-Jan-2023 11:56:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076112-006
Misc. Info.: MB
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Feb-2023 09:07:22 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1655

First Level Reviewer: DVW2 Date: 31-Jan-2023 12:26:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.1	101.48
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.35
$ 83 Toluene-d8 (Surr)	10.0	9.91	99.09
$ 127 4-Bromofluorobenzene (Surr)	10.0	9.88	98.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-340956/8

Matrix: Water
Lab File ID: GF02X07.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 25(mL)
Date Analyzed: 02/02/2023 12:44

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.: 340956
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 Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-340956/8

Matrix: Water
Lab File ID: GF02X07.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 25(mL)
Date Analyzed: 02/02/2023 12:44

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.: 340956
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)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02X07.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 02-Feb-2023 12:44:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076262-008
Misc. Info.: MB
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230202-76262.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 02-Feb-2023 14:03:39 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1644

First Level Reviewer: DVW2 Date: 02-Feb-2023 14:01:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.867					ND	
2 Dichlorodifluoromethane	85		1.904					ND	
3 Chlorodifluoromethane	51		1.916					ND	7
4 Dimethyl ether	45		1.983					ND	7
5 Chloromethane	50		2.093					ND	
6 Vinyl chloride	62		2.202					ND	
7 Butadiene	39		2.215					ND	7
8 2-Chloro-1,1,1-Trifluoroethane	118		2.294					ND	
9 Bromomethane	94		2.532					ND	
10 Chloroethane	64		2.605					ND	
11 Dichlorofluoromethane	67		2.837					ND	
12 Trichlorofluoromethane	101		2.904					ND	
13 Ethyl ether	59		3.135					ND	
14 Ethanol	45		3.190					ND	
16 1,2-Dichloro-1,1,2-trifluoroetha	67		3.227					ND	
17 Acrolein	56		3.300					ND	7
18 1,1-Dichloroethene	96		3.428					ND	
19 Acetone	43		3.458					ND	7
20 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.471					ND	
21 Isopropyl alcohol	45		3.599					ND	
22 Iodomethane	142		3.611					ND	
23 Ethyl bromide	108		3.641					ND	
24 Carbon disulfide	76		3.714					ND	7
25 Methyl acetate	43		3.861					ND	
26 Acetonitrile	41		3.873					ND	
27 3-Chloro-1-propene	41		3.891					ND	
29 Methylene Chloride	84		4.068					ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.086	4.074	0.012	22	214304	50.0	50.0	
31 2-Methyl-2-propanol	59	4.208	4.214	-0.006	15	5499		1.19	
32 Acrylonitrile	53		4.391					ND	
33 Methyl tert-butyl ether	73		4.464					ND	

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	34 trans-1,2-Dichloroethene	96		4.470				ND		
	35 Hexane	57		4.897				ND		
	36 Vinyl acetate	43		5.123				ND		
	37 1,1-Dichloroethane	63		5.135				ND		
	38 Isopropyl ether	45		5.196				ND		
	39 2-Chloro-1,3-butadiene	53		5.245				ND		
	40 Tert-butyl ethyl ether	59		5.732				ND		
	41 2-Butanone (MEK)	43		5.933				ND		
	42 cis-1,2-Dichloroethene	96		5.970				ND		
	43 2,2-Dichloropropane	77		5.988				ND		
	44 Ethyl acetate	43		6.007				ND		
	45 Propionitrile	54		6.025				ND		
	46 Methyl acrylate	55		6.141				ND		
S	47 1,2-Dichloroethene, Total	100		6.155				ND		7
	48 Methacrylonitrile	67		6.244				ND		
	49 Chlorobromomethane	128		6.299				ND		
	50 Tetrahydrofuran	71		6.305				ND		
	51 Chloroform	83		6.458				ND		
$	52 Dibromofluoromethane (Surr)	113	6.671	6.677	-0.006	94	685791	10.0	10.2	
	53 1,1,1-Trichloroethane	97		6.677				ND		
	54 Cyclohexane	56		6.781				ND		
	55 Carbon tetrachloride	117		6.891				ND		
	56 1,1-Dichloropropene	75		6.897				ND		
	57 1-Chlorobutane	56		6.940				ND		
	58 Isobutyl alcohol	41		7.061				ND		
$	59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.128	0.000	66	145960	10.0	10.5	
	60 Benzene	78		7.159				ND		
	61 1,2-Dichloroethane	62		7.226				ND		
	62 Isopropyl acetate	43		7.244				ND		
	63 Tert-amyl methyl ether	73		7.354				ND		
*	64 Fluorobenzene (IS)	96	7.567	7.567	0.000	99	2799252	10.0	10.0	
	65 n-Heptane	43		7.579				ND		7
	66 t-Amyl alcohol	73		7.842				ND		
	67 n-Butanol	56		7.951				ND		
	68 Trichloroethene	95		8.043				ND		
	69 Methylcyclohexane	83		8.348				ND		
	70 1,2-Dichloropropane	63		8.378				ND		
	71 2-ethoxy-2-methyl butane	87		8.390				ND		
	72 Methyl methacrylate	69		8.463				ND		
	73 1,4-Dioxane	88		8.476				ND		
	74 Dibromomethane	93		8.482				ND		
	75 n-Propyl acetate	61		8.549				ND		
	76 Dichlorobromomethane	83		8.726				ND		
	77 2-Nitropropane	41		9.000				ND		
	78 2-Chloroethyl vinyl ether	63		9.098				ND		
	79 1-Bromo-2-chloroethane	63		9.116				ND		
	80 Chloroacetonitrile	75		9.189				ND		
	81 cis-1,3-Dichloropropene	75		9.280				ND		
	82 4-Methyl-2-pentanone (MIBK)	43		9.463				ND		
$	83 Toluene-d8 (Surr)	98	9.591	9.591	0.000	93	2787175	10.0	9.83	
	84 Toluene	92		9.671				ND		
	85 trans-1,3-Dichloropropene	75		9.933				ND		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 Ethyl methacrylate	69		10.000					ND	
S 106 1,3-Dichloropropene, Total	100		10.060					ND	7
107 1,1,2-Trichloroethane	97		10.140					ND	
108 Tetrachloroethene	166		10.225					ND	
109 1,3-Dichloropropane	76		10.305					ND	
110 2-Hexanone	43		10.359					ND	
111 n-Butyl acetate	43		10.487					ND	
112 Chlorodibromomethane	129		10.518					ND	
113 Ethylene Dibromide	107		10.628					ND	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.061	0.007	86	2145291	10.0	10.0	
115 1-Chlorohexane	91		11.073					ND	7
116 Chlorobenzene	112		11.091					ND	
117 1,1,1,2-Tetrachloroethane	131		11.176					ND	
118 Ethylbenzene	91		11.176					ND	
S 119 Xylenes, Total	106		11.245					ND	7
120 m-Xylene & p-Xylene	106		11.292					ND	
121 o-Xylene	106		11.621					ND	
122 Styrene	104		11.640					ND	
123 Bromoform	173		11.792					ND	
124 Isopropylbenzene	105		11.920					ND	
125 cis-1,4-Dichloro-2-butene	88		11.987					ND	
126 Cyclohexanone	55		12.018					ND	7
$ 127 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	91	1030060	10.0	9.87	
128 1,1,2,2-Tetrachloroethane	83		12.170					ND	
129 Bromobenzene	156		12.182					ND	
130 trans-1,4-Dichloro-2-butene	53		12.194					ND	
131 1,2,3-Trichloropropane	110		12.213					ND	
132 N-Propylbenzene	91		12.249					ND	
133 2-Chlorotoluene	126		12.329					ND	
134 1,3,5-Trimethylbenzene	105		12.390					ND	
135 4-Chlorotoluene	126		12.420					ND	
136 tert-Butylbenzene	134		12.627					ND	
137 Pentachloroethane	167		12.658					ND	
138 1,2,4-Trimethylbenzene	105		12.670					ND	
139 sec-Butylbenzene	105		12.792					ND	
140 1,3-Dichlorobenzene	146		12.889					ND	7
141 4-Isopropyltoluene	119		12.896					ND	7
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	1212764	10.0	10.0	
143 1,4-Dichlorobenzene	146		12.963					ND	7
144 1,2,3-Trimethylbenzene	120		12.975					ND	7
145 Benzyl chloride	126		13.036					ND	7
146 p-Diethylbenzene	119		13.097					ND	
147 n-Butylbenzene	92		13.188					ND	
148 1,2-Dichlorobenzene	146		13.219					ND	
149 Hexachloroethane	201		13.499					ND	
150 1,2-Dibromo-3-Chloropropane	155		13.755					ND	
151 1,3,5-Trichlorobenzene	180		13.883					ND	7
152 1,2,4-Trichlorobenzene	180		14.304					ND	
153 Hexachlorobutadiene	225		14.383					ND	7
154 Naphthalene	128		14.481					ND	7
155 1,2,3-Trichlorobenzene	180		14.621					ND	
156 2-Methylnaphthalene	142	15.230	15.224	0.006	92	3035		0.0228	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
157 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
158 1-Chloropropane	1		0.000					ND	
159 1-Bromo-3-Chloropropane	1		0.000					ND	
160 Propene oxide	1		0.000					ND	
161 n-Decane	57		0.000					ND	
162 Methylal	1		0.000					ND	
163 tert-Butyl Formate	1		0.000					ND	
164 1,1-Dichloroacetone	1		0.000					ND	
165 Dodecane	57		0.000					ND	
166 2-Bromo-1-chloropropane	1		0.000					ND	
167 Pentane	43	2.922	2.928	-0.006	1	96			NR

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

MSV_29_826ISS_00037 Amount Added: 1.00 Units: uL Run Reagent

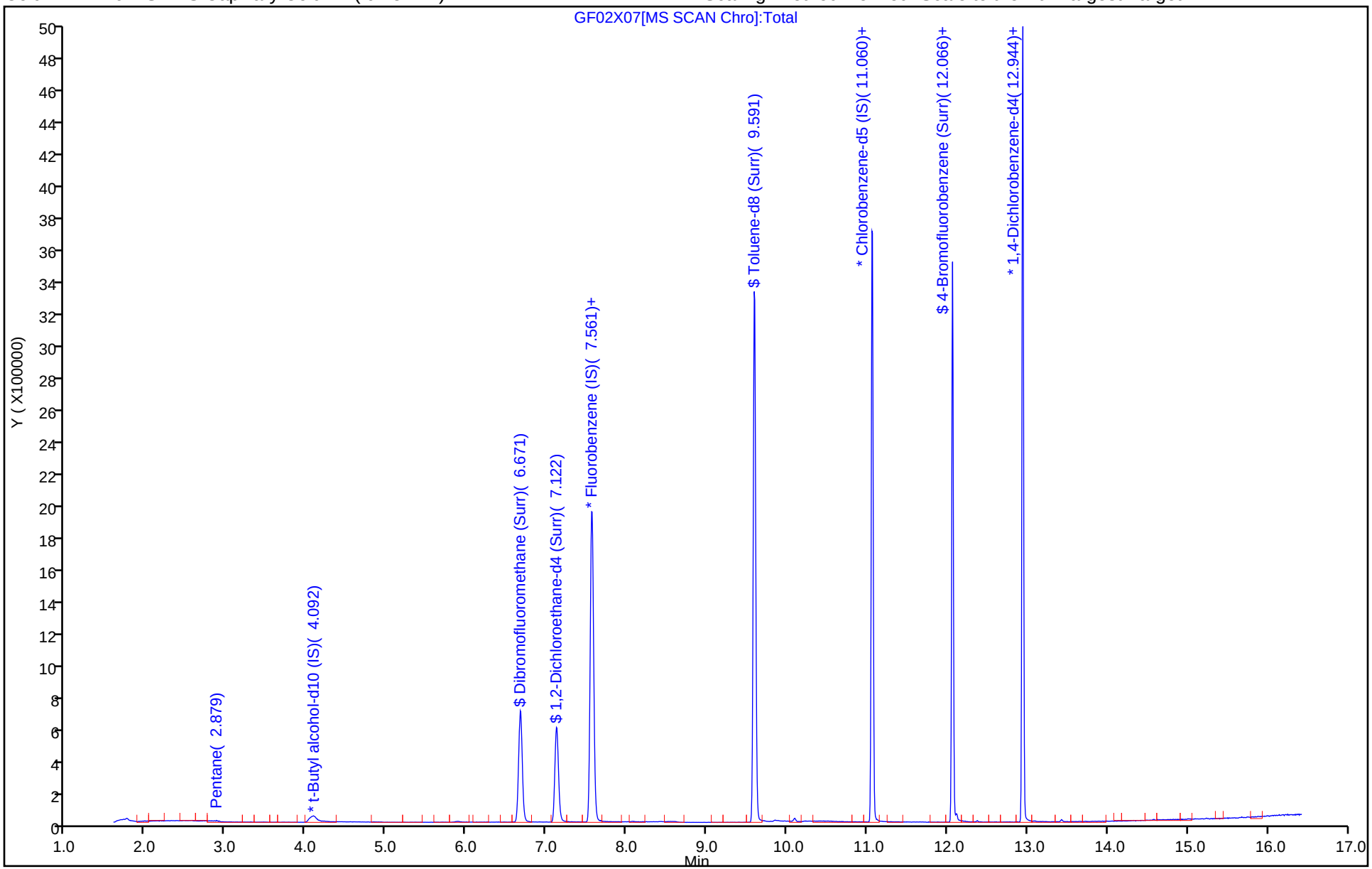
Report Date: 02-Feb-2023 14:04:38 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02X07.D

Injection Date:	02-Feb-2023 12:44:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02X07.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	02-Feb-2023 12:44:30	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0076262-008				
Misc. Info.:	MB				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230202-76262.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	02-Feb-2023 14:03:39	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1644				

First Level Reviewer: DVW2 Date: 02-Feb-2023 14:01:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.2	102.06
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	104.92
$ 83 Toluene-d8 (Surr)	10.0	9.83	98.32
$ 127 4-Bromofluorobenzene (Surr)	10.0	9.87	98.72

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-340101/4

Matrix: Water
Lab File ID: GJ31X03.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 11:12

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 340101
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.91		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.79		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	4.83		0.50	0.10
79-00-5	1,1,2-Trichloroethane	4.67		0.50	0.080
75-34-3	1,1-Dichloroethane	4.63		0.50	0.10
75-35-4	1,1-Dichloroethene	4.61		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	4.84		0.50	0.080
107-06-2	1,2-Dichloroethane	4.56		0.50	0.070
78-87-5	1,2-Dichloropropane	4.79		0.50	0.10
78-93-3	2-Butanone (MEK)	60.4		5.0	1.0
591-78-6	2-Hexanone	57.8		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	57.7		5.0	1.0
67-64-1	Acetone	60.0		5.0	1.0
71-43-2	Benzene	4.77		0.50	0.10
74-97-5	Bromochloromethane	4.92		0.50	0.080
75-27-4	Bromodichloromethane	4.83		0.50	0.080
75-25-2	Bromoform	4.78		1.0	0.30
74-83-9	Bromomethane	4.28		0.50	0.10
75-15-0	Carbon disulfide	5.16		1.0	0.10
56-23-5	Carbon tetrachloride	4.72		0.50	0.10
108-90-7	Chlorobenzene	4.60		0.50	0.070
75-00-3	Chloroethane	4.31		0.50	0.10
67-66-3	Chloroform	4.73		0.50	0.090
74-87-3	Chloromethane	4.14		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	4.74		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.75		0.50	0.10
124-48-1	Dibromochloromethane	4.85		0.50	0.080
100-41-4	Ethylbenzene	4.81		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.04		0.50	0.080
75-09-2	Methylene Chloride	4.71		0.50	0.10
100-42-5	Styrene	5.03		0.50	0.070
127-18-4	Tetrachloroethene	4.64		0.50	0.20
108-88-3	Toluene	4.71		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-340101/4

Matrix: Water
Lab File ID: GJ31X03.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 11:12

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 340101
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	4.57		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	4.85		0.50	0.080
79-01-6	Trichloroethene	4.58		0.50	0.080
75-01-4	Vinyl chloride	4.17		0.50	0.10
1330-20-7	Xylenes, Total	14.6		1.0	0.070

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

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 31-Jan-2023 11:12:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076112-004
Misc. Info.: LCS
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Feb-2023 09:01:16 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1655

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:01:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.904	1.898	0.006	99	392601	5.00	3.86	
5 Chloromethane	50	2.093	2.093	0.000	99	488892	5.00	4.14	
6 Vinyl chloride	62	2.203	2.203	-0.001	98	468933	5.00	4.17	
7 Butadiene	39	2.221	2.221	0.000	92	530815	5.00	5.89	
9 Bromomethane	94	2.532	2.532	0.000	91	317631	5.00	4.28	
10 Chloroethane	64	2.605	2.605	0.000	100	277977	5.00	4.31	
11 Dichlorofluoromethane	67	2.843	2.843	0.000	97	666107	5.00	4.45	
12 Trichlorofluoromethane	101	2.910	2.904	0.006	97	557346	5.00	3.93	
13 Ethyl ether	59	3.123	3.129	-0.006	92	246371	4.99	4.09	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.227	3.227	0.000	92	412163	5.00	4.57	
17 Acrolein	56	3.300	3.294	0.006	98	277574	37.5	29.9	
18 1,1-Dichloroethene	96	3.434	3.428	0.006	98	320741	5.00	4.61	
19 Acetone	43	3.464	3.452	0.012	100	699975	62.5	60.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.477	3.471	0.006	92	324390	5.00	4.86	
21 Isopropyl alcohol	45	3.617	3.599	0.018	95	58570	37.5	37.7	
22 Iodomethane	142	3.617	3.617	0.000	99	576297	5.00	4.89	
23 Ethyl bromide	108	3.647	3.641	0.006	98	197430	4.93	3.21	
24 Carbon disulfide	76	3.714	3.714	0.000	99	1073229	5.00	5.16	
25 Methyl acetate	43	3.867	3.842	0.025	98	170428	5.00	5.56	
27 3-Chloro-1-propene	41	3.891	3.885	0.006	92	547070	5.00	5.08	
29 Methylene Chloride	84	4.074	4.068	0.006	93	365245	5.00	4.71	
* 30 t-Butyl alcohol-d10 (IS)	65	4.092	4.074	0.018	95	208388	50.0	50.0	
31 2-Methyl-2-propanol	59	4.178	4.208	-0.030	99	193591	50.0	43.1	
32 Acrylonitrile	53	4.403	4.391	0.012	99	393409	25.0	24.4	
33 Methyl tert-butyl ether	73	4.464	4.464	0.000	94	951228	5.00	5.04	
34 trans-1,2-Dichloroethene	96	4.470	4.464	0.006	98	360179	5.00	4.57	
35 Hexane	57	4.897	4.891	0.006	93	489128	5.00	4.89	
37 1,1-Dichloroethane	63	5.135	5.135	0.000	96	645843	5.00	4.63	
38 Isopropyl ether	45	5.196	5.196	0.000	95	1198288	5.00	4.96	
39 2-Chloro-1,3-butadiene	53	5.251	5.245	0.006	91	544058	5.00	5.10	
40 Tert-butyl ethyl ether	59	5.732	5.732	0.000	98	1142322	5.00	5.05	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.940	5.940	0.000	100	1381082	62.5	60.4	
42 cis-1,2-Dichloroethene	96	5.976	5.970	0.006	83	413285	5.00	4.74	
43 2,2-Dichloropropane	77	5.988	5.988	0.000	87	579129	5.00	5.06	
45 Propionitrile	54	6.031	6.025	0.006	98	205975	37.5	37.6	
48 Methacrylonitrile	67	6.244	6.244	0.000	92	786221	37.5	33.6	
49 Chlorobromomethane	128	6.305	6.299	0.006	95	188165	5.00	4.92	
50 Tetrahydrofuran	71	6.311	6.305	0.006	86	155890	25.0	24.1	
51 Chloroform	83	6.458	6.452	0.006	93	662549	5.00	4.73	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	94	731152	10.0	10.2	
53 1,1,1-Trichloroethane	97	6.683	6.683	0.000	97	578946	5.00	4.79	
54 Cyclohexane	56	6.781	6.775	0.006	91	601211	5.00	4.89	
56 1,1-Dichloropropene	75	6.897	6.897	0.000	97	521525	5.00	4.87	
55 Carbon tetrachloride	117	6.897	6.897	0.000	96	501935	5.00	4.72	
58 Isobutyl alcohol	41	7.061	7.061	0.000	94	146915	125.0	121.0	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.122	7.122	0.000	80	150007	10.0	10.1	
60 Benzene	78	7.159	7.159	0.000	97	1544595	5.00	4.77	
61 1,2-Dichloroethane	62	7.232	7.226	0.006	97	415438	5.00	4.56	
63 Tert-amyl methyl ether	73	7.354	7.348	0.006	98	1053125	5.00	5.09	
* 64 Fluorobenzene (IS)	96	7.567	7.561	0.006	98	2992136	10.0	10.0	
65 n-Heptane	43	7.580	7.580	0.000	93	524409	5.00	4.63	
67 n-Butanol	56	7.951	7.951	0.000	89	303519	250.0	244.9	
68 Trichloroethene	95	8.043	8.043	0.000	98	400646	5.00	4.58	
69 Methylcyclohexane	83	8.354	8.348	0.006	93	634170	5.00	4.73	
70 1,2-Dichloropropane	63	8.378	8.378	0.000	86	403990	5.00	4.79	
71 2-ethoxy-2-methyl butane	87	8.390	8.390	0.000	93	583723	5.00	4.91	
72 Methyl methacrylate	69	8.470	8.464	0.006	91	189642	5.00	4.27	
73 1,4-Dioxane	88	8.470	8.476	-0.006	29	35429	125.0	145.5	Ma
74 Dibromomethane	93	8.488	8.482	0.006	95	198331	5.00	4.90	
76 Dichlorobromomethane	83	8.726	8.726	0.000	99	487677	5.00	4.83	
77 2-Nitropropane	41	9.000	9.000	0.000	97	54080	5.00	4.11	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	99	433541	5.00	4.95	
81 cis-1,3-Dichloropropene	75	9.280	9.280	0.000	96	592606	5.00	4.75	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	97	3593614	62.5	57.7	
$ 83 Toluene-d8 (Surr)	98	9.597	9.591	0.006	94	3023951	10.0	10.1	
84 Toluene	92	9.671	9.671	0.000	98	990185	5.00	4.71	
85 trans-1,3-Dichloropropene	75	9.939	9.933	0.006	93	528621	5.00	4.85	
86 Ethyl methacrylate	69	10.000	10.000	0.000	90	403874	5.00	5.24	
107 1,1,2-Trichloroethane	97	10.140	10.140	0.000	91	288092	5.00	4.67	
108 Tetrachloroethene	166	10.225	10.225	0.000	98	459727	5.00	4.64	
109 1,3-Dichloropropane	76	10.305	10.305	0.000	91	500929	5.00	4.88	
110 2-Hexanone	43	10.366	10.359	0.007	97	2576828	62.5	57.8	
112 Chlorodibromomethane	129	10.518	10.518	0.000	90	353240	5.00	4.85	
113 Ethylene Dibromide	107	10.628	10.628	0.000	98	274815	5.00	4.84	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	86	2261536	10.0	10.0	
115 1-Chlorohexane	91	11.079	11.079	0.000	98	541286	5.00	4.52	
116 Chlorobenzene	112	11.091	11.091	0.000	95	1143439	5.00	4.60	
117 1,1,1,2-Tetrachloroethane	131	11.176	11.176	0.000	96	406235	5.00	4.91	
118 Ethylbenzene	91	11.176	11.176	0.000	99	1956231	5.00	4.81	
120 m-Xylene & p-Xylene	106	11.292	11.292	0.000	100	1521522	10.0	9.68	
121 o-Xylene	106	11.621	11.621	0.000	96	744763	5.00	4.89	
122 Styrene	104	11.640	11.640	0.000	95	1228641	5.00	5.03	
123 Bromoform	173	11.792	11.792	0.000	97	213113	5.00	4.78	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
124 Isopropylbenzene	105	11.926	11.926	0.000	96	1947954	5.00	4.95	
$ 127 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	91	1111881	10.0	10.1	
128 1,1,2,2-Tetrachloroethane	83	12.170	12.170	0.000	94	382493	5.00	4.83	
129 Bromobenzene	156	12.182	12.182	0.000	97	488800	5.00	4.73	
130 trans-1,4-Dichloro-2-butene	53	12.194	12.194	0.000	94	415128	25.0	16.6	
131 1,2,3-Trichloropropane	110	12.219	12.213	0.006	83	103795	5.00	4.98	
132 N-Propylbenzene	91	12.249	12.249	0.000	99	2353308	5.00	4.77	
133 2-Chlorotoluene	126	12.329	12.329	0.000	96	475235	5.00	4.72	
134 1,3,5-Trimethylbenzene	105	12.390	12.390	0.000	94	1668737	5.00	4.79	
135 4-Chlorotoluene	126	12.420	12.420	0.000	97	498759	5.00	4.73	
136 tert-Butylbenzene	134	12.627	12.627	0.000	93	353608	5.00	4.62	
137 Pentachloroethane	167	12.658	12.658	0.000	92	310615	5.00	4.89	
138 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	97	1738147	5.00	4.81	
139 sec-Butylbenzene	105	12.792	12.792	0.000	94	2161781	5.00	4.85	
140 1,3-Dichlorobenzene	146	12.889	12.889	0.000	98	983147	5.00	4.60	
141 4-Isopropyltoluene	119	12.902	12.896	0.006	97	1912762	5.00	4.86	
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	94	1330362	10.0	10.0	
143 1,4-Dichlorobenzene	146	12.963	12.963	0.000	95	1011833	5.00	4.77	
144 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	99	768132	5.00	4.62	
145 Benzyl chloride	126	13.042	13.042	0.000	99	158575	5.00	5.15	
146 p-Diethylbenzene	119	13.097	13.097	0.000	91	1129019	5.00	4.76	
147 n-Butylbenzene	92	13.188	13.188	0.000	97	975248	5.00	4.78	
148 1,2-Dichlorobenzene	146	13.219	13.219	0.000	99	928023	5.00	4.65	
150 1,2-Dibromo-3-Chloropropane	155	13.761	13.761	0.000	84	53966	5.00	5.04	
151 1,3,5-Trichlorobenzene	180	13.883	13.883	0.000	97	799164	5.00	4.61	
152 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	715256	5.00	4.72	
153 Hexachlorobutadiene	225	14.383	14.389	-0.006	96	367958	5.00	4.73	
154 Naphthalene	128	14.481	14.481	0.000	97	1241919	5.00	5.02	
155 1,2,3-Trichlorobenzene	180	14.627	14.621	0.006	96	638417	5.00	4.85	
156 2-Methylnaphthalene	142	15.224	15.224	0.000	92	763143	5.00	5.23	
167 Pentane	43	2.928	2.928	0.000	97	551657	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LCS_Penta_00025	Amount Added:	12.50	Units: uL	
MSV_LCS_VOC#1_00093	Amount Added:	12.50	Units: uL	
LCS_ETBR_00005	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00122	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00095	Amount Added:	12.50	Units: uL	
MSV_LCS_EE_00004	Amount Added:	12.50	Units: uL	
MSV_29_826ISS_00037	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 01-Feb-2023 09:01:17 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X03.D

Injection Date: 31-Jan-2023 11:12:30 Instrument ID: 16334 Operator ID: knk41612

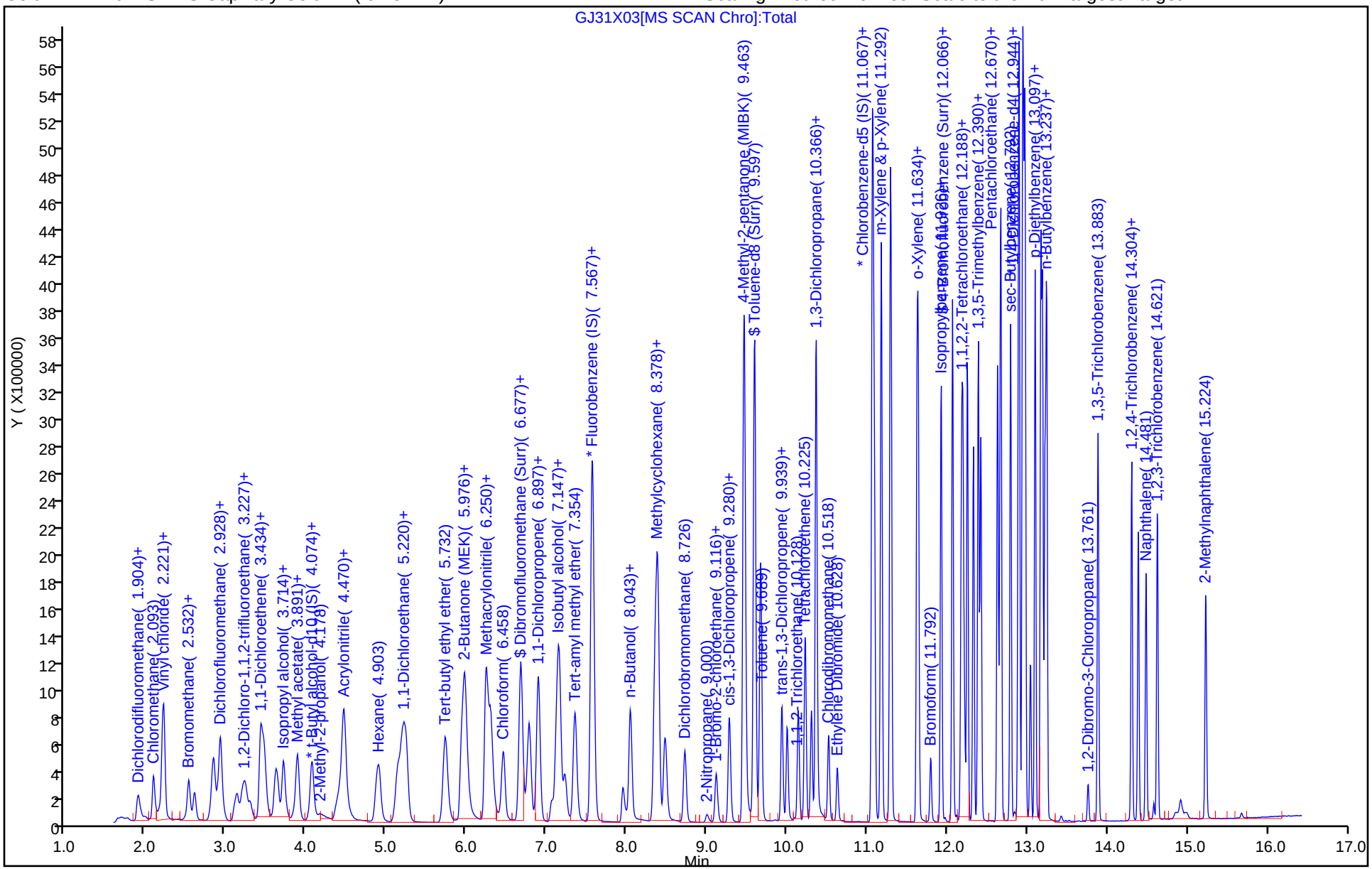
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X03.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	31-Jan-2023 11:12:30	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0076112-004				
Misc. Info.:	LCS				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Feb-2023 09:01:16	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1655				

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:01:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.2	101.80
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	100.87
$ 83 Toluene-d8 (Surr)	10.0	10.1	101.19
$ 127 4-Bromofluorobenzene (Surr)	10.0	10.1	101.09

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-340956/5

Matrix: Water
Lab File ID: GF02X04.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 25(mL)
Date Analyzed: 02/02/2023 11:37

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.: 340956
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.94		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.76		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.11		0.50	0.10
79-00-5	1,1,2-Trichloroethane	4.89		0.50	0.080
75-34-3	1,1-Dichloroethane	4.75		0.50	0.10
75-35-4	1,1-Dichloroethene	4.47		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	4.94		0.50	0.080
107-06-2	1,2-Dichloroethane	4.78		0.50	0.070
78-87-5	1,2-Dichloropropane	4.97		0.50	0.10
78-93-3	2-Butanone (MEK)	63.6		5.0	1.0
591-78-6	2-Hexanone	62.2		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	60.1		5.0	1.0
67-64-1	Acetone	64.3		5.0	1.0
71-43-2	Benzene	4.82		0.50	0.10
74-97-5	Bromochloromethane	5.03		0.50	0.080
75-27-4	Bromodichloromethane	5.01		0.50	0.080
75-25-2	Bromoform	4.72		1.0	0.30
74-83-9	Bromomethane	4.30		0.50	0.10
75-15-0	Carbon disulfide	5.09		1.0	0.10
56-23-5	Carbon tetrachloride	4.76		0.50	0.10
108-90-7	Chlorobenzene	4.65		0.50	0.070
75-00-3	Chloroethane	4.29		0.50	0.10
67-66-3	Chloroform	4.83		0.50	0.090
74-87-3	Chloromethane	4.14		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	4.85		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.81		0.50	0.10
124-48-1	Dibromochloromethane	4.88		0.50	0.080
100-41-4	Ethylbenzene	4.81		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.09		0.50	0.080
75-09-2	Methylene Chloride	4.76		0.50	0.10
100-42-5	Styrene	5.14		0.50	0.070
127-18-4	Tetrachloroethene	4.58		0.50	0.20
108-88-3	Toluene	4.69		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-340956/5

Matrix: Water
Lab File ID: GF02X04.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 25(mL)
Date Analyzed: 02/02/2023 11:37

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.: 340956
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	4.61		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	4.90		0.50	0.080
79-01-6	Trichloroethene	4.66		0.50	0.080
75-01-4	Vinyl chloride	4.07		0.50	0.10
1330-20-7	Xylenes, Total	14.8		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02X04.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 02-Feb-2023 11:37:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076262-005
Misc. Info.: MRL
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230202-76262.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 02-Feb-2023 12:21:58 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1644

First Level Reviewer: DVW2 Date: 02-Feb-2023 12:14:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.898	1.904	-0.006	99	377929	5.00	3.75	
5 Chloromethane	50	2.087	2.093	-0.006	99	483054	5.00	4.14	
6 Vinyl chloride	62	2.197	2.202	-0.006	98	451595	5.00	4.07	
7 Butadiene	39	2.215	2.215	0.000	92	603763	5.00	6.81	
9 Bromomethane	94	2.526	2.532	-0.006	91	315264	5.00	4.30	
10 Chloroethane	64	2.599	2.605	-0.006	100	273274	5.00	4.29	
11 Dichlorofluoromethane	67	2.831	2.837	-0.005	97	650718	5.00	4.40	
12 Trichlorofluoromethane	101	2.898	2.904	-0.006	97	532163	5.00	3.80	
13 Ethyl ether	59	3.117	3.135	-0.018	92	233196	4.99	3.91	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.215	3.227	-0.012	92	402812	5.00	4.52	
17 Acrolein	56	3.294	3.300	-0.006	99	294610	37.5	32.3	
18 1,1-Dichloroethene	96	3.422	3.428	-0.006	98	308145	5.00	4.47	
19 Acetone	43	3.446	3.458	-0.012	100	737785	62.5	64.3	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.465	3.471	-0.006	92	326624	5.00	4.95	
21 Isopropyl alcohol	45	3.599	3.599	0.000	27	68206	37.5	44.4	
22 Iodomethane	142	3.611	3.611	0.000	98	571622	5.00	4.91	
23 Ethyl bromide	108	3.641	3.641	0.000	98	188581	4.93	3.11	
24 Carbon disulfide	76	3.708	3.714	-0.006	99	1046479	5.00	5.09	
25 Methyl acetate	43	3.843	3.861	-0.018	97	180007	5.00	5.99	M
27 3-Chloro-1-propene	41	3.885	3.891	-0.006	94	537727	5.00	5.05	
29 Methylene Chloride	84	4.062	4.068	-0.006	93	365260	5.00	4.76	
* 30 t-Butyl alcohol-d10 (IS)	65	4.080	4.074	0.006	99	204906	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.190	4.214	-0.024	99	213301	50.0	48.3	
32 Acrylonitrile	53	4.391	4.391	0.000	99	407451	25.0	25.7	
33 Methyl tert-butyl ether	73	4.458	4.464	-0.006	96	951092	5.00	5.09	
34 trans-1,2-Dichloroethene	96	4.464	4.470	-0.006	99	359010	5.00	4.61	
35 Hexane	57	4.891	4.897	-0.006	96	485559	5.00	4.91	
37 1,1-Dichloroethane	63	5.129	5.135	-0.006	97	655585	5.00	4.75	
38 Isopropyl ether	45	5.190	5.196	-0.006	95	1211360	5.00	5.07	
39 2-Chloro-1,3-butadiene	53	5.233	5.245	-0.013	91	540834	5.00	5.12	
40 Tert-butyl ethyl ether	59	5.732	5.732	0.000	98	1156879	5.00	5.17	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.934	5.933	0.001	100	1431947	62.5	63.6	
42 cis-1,2-Dichloroethene	96	5.976	5.970	0.006	83	417896	5.00	4.85	
43 2,2-Dichloropropane	77	5.982	5.988	-0.006	86	574892	5.00	5.08	
45 Propionitrile	54	6.025	6.025	0.000	98	207718	37.5	38.6	
48 Methacrylonitrile	67	6.245	6.244	0.000	92	813748	37.5	35.4	
49 Chlorobromomethane	128	6.299	6.299	0.000	97	190195	5.00	5.03	
50 Tetrahydrofuran	71	6.305	6.305	0.000	90	157419	25.0	24.8	
51 Chloroform	83	6.452	6.458	-0.006	93	669610	5.00	4.83	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.677	-0.006	94	724109	10.0	10.2	
53 1,1,1-Trichloroethane	97	6.683	6.677	0.006	98	568868	5.00	4.76	
54 Cyclohexane	56	6.775	6.781	-0.006	91	599346	5.00	4.93	
55 Carbon tetrachloride	117	6.891	6.891	0.000	96	500004	5.00	4.76	
56 1,1-Dichloropropene	75	6.897	6.897	0.000	95	524154	5.00	4.95	
58 Isobutyl alcohol	41	7.061	7.061	0.000	92	179222	125.0	149.2	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.128	0.000	95	151630	10.0	10.3	
60 Benzene	78	7.153	7.159	-0.006	97	1542998	5.00	4.82	
61 1,2-Dichloroethane	62	7.226	7.226	0.000	97	430581	5.00	4.78	
63 Tert-amyl methyl ether	73	7.348	7.354	-0.006	98	1070308	5.00	5.23	
* 64 Fluorobenzene (IS)	96	7.561	7.567	-0.006	97	2958868	10.0	10.0	
65 n-Heptane	43	7.574	7.579	-0.005	92	533386	5.00	4.76	
67 n-Butanol	56	7.951	7.951	0.000	91	323107	250.0	265.1	
68 Trichloroethene	95	8.043	8.043	0.000	98	402877	5.00	4.66	
69 Methylcyclohexane	83	8.348	8.348	0.000	93	640206	5.00	4.83	
70 1,2-Dichloropropane	63	8.372	8.378	-0.006	97	414557	5.00	4.97	
71 2-ethoxy-2-methyl butane	87	8.384	8.390	-0.006	94	596185	5.00	5.07	
72 Methyl methacrylate	69	8.470	8.463	0.007	90	197279	5.00	4.52	
73 1,4-Dioxane	88	8.476	8.476	0.000	29	34234	125.0	143.0	M
74 Dibromomethane	93	8.482	8.482	0.000	95	205314	5.00	5.13	
76 Dichlorobromomethane	83	8.726	8.726	0.000	100	500444	5.00	5.01	
77 2-Nitropropane	41	9.000	9.000	0.000	100	54415	5.00	4.21	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	99	435900	5.00	5.03	
81 cis-1,3-Dichloropropene	75	9.280	9.280	0.000	96	592554	5.00	4.81	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	97	3682376	62.5	60.1	
$ 83 Toluene-d8 (Surr)	98	9.591	9.591	0.000	93	3000290	10.0	9.96	
84 Toluene	92	9.671	9.671	0.000	98	993773	5.00	4.69	
85 trans-1,3-Dichloropropene	75	9.933	9.933	0.000	93	537348	5.00	4.90	
86 Ethyl methacrylate	69	10.000	10.000	0.000	89	427750	5.00	5.50	
107 1,1,2-Trichloroethane	97	10.140	10.140	0.000	91	303445	5.00	4.89	
108 Tetrachloroethene	166	10.225	10.225	0.000	98	456764	5.00	4.58	
109 1,3-Dichloropropane	76	10.305	10.305	0.000	91	514743	5.00	4.98	
110 2-Hexanone	43	10.360	10.359	0.001	97	2726609	62.5	62.2	
112 Chlorodibromomethane	129	10.518	10.518	0.000	90	358246	5.00	4.88	
113 Ethylene Dibromide	107	10.628	10.628	0.000	99	282795	5.00	4.94	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.061	0.007	85	2278865	10.0	10.0	
115 1-Chlorohexane	91	11.073	11.073	0.000	98	547491	5.00	4.54	
116 Chlorobenzene	112	11.091	11.091	0.000	95	1164430	5.00	4.65	
117 1,1,1,2-Tetrachloroethane	131	11.170	11.176	-0.006	95	411914	5.00	4.94	
118 Ethylbenzene	91	11.176	11.176	0.000	98	1971906	5.00	4.81	
120 m-Xylene & p-Xylene	106	11.292	11.292	0.000	100	1558679	10.0	9.84	
121 o-Xylene	106	11.622	11.621	0.001	97	753579	5.00	4.91	
122 Styrene	104	11.640	11.640	0.000	95	1266213	5.00	5.14	
123 Bromoform	173	11.792	11.792	0.000	97	211748	5.00	4.72	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
124 Isopropylbenzene	105	11.920	11.920	0.000	96	1974606	5.00	4.98	
$ 127 4-Bromofluorobenzene (Surr)	95	12.067	12.066	0.001	91	1109914	10.0	10.0	
128 1,1,2,2-Tetrachloroethane	83	12.170	12.170	0.000	94	405095	5.00	5.11	
129 Bromobenzene	156	12.182	12.182	0.000	97	505748	5.00	4.89	
130 trans-1,4-Dichloro-2-butene	53	12.195	12.194	0.001	92	375666	25.0	15.2	
131 1,2,3-Trichloropropane	110	12.213	12.213	0.000	82	106779	5.00	5.12	
132 N-Propylbenzene	91	12.249	12.249	0.000	99	2371417	5.00	4.80	
133 2-Chlorotoluene	126	12.329	12.329	0.000	96	486928	5.00	4.83	
134 1,3,5-Trimethylbenzene	105	12.390	12.390	0.000	94	1699728	5.00	4.87	
135 4-Chlorotoluene	126	12.420	12.420	0.000	97	516130	5.00	4.89	
136 tert-Butylbenzene	134	12.627	12.627	0.000	93	363981	5.00	4.75	
137 Pentachloroethane	167	12.658	12.658	0.000	89	303232	5.00	4.77	
138 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	97	1776410	5.00	4.91	
139 sec-Butylbenzene	105	12.792	12.792	0.000	94	2204154	5.00	4.94	
140 1,3-Dichlorobenzene	146	12.890	12.889	0.001	98	1013382	5.00	4.73	
141 4-Isopropyltoluene	119	12.896	12.896	0.000	97	1953784	5.00	4.96	
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	94	1332152	10.0	10.0	
143 1,4-Dichlorobenzene	146	12.963	12.963	0.000	96	1055173	5.00	4.97	
144 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	99	788108	5.00	4.73	
145 Benzyl chloride	126	13.036	13.036	0.000	99	164461	5.00	5.33	
146 p-Diethylbenzene	119	13.097	13.097	0.000	92	1150659	5.00	4.85	
147 n-Butylbenzene	92	13.188	13.188	0.000	97	1002841	5.00	4.90	
148 1,2-Dichlorobenzene	146	13.219	13.219	0.000	98	959303	5.00	4.80	
150 1,2-Dibromo-3-Chloropropane	155	13.761	13.755	0.006	87	54308	5.00	5.06	
151 1,3,5-Trichlorobenzene	180	13.883	13.883	0.000	98	815851	5.00	4.70	
152 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	727805	5.00	4.80	
153 Hexachlorobutadiene	225	14.383	14.383	0.000	96	382179	5.00	4.91	
154 Naphthalene	128	14.481	14.481	0.000	97	1242335	5.00	5.01	
155 1,2,3-Trichlorobenzene	180	14.621	14.621	0.000	95	631523	5.00	4.79	
156 2-Methylnaphthalene	142	15.224	15.224	0.000	93	653211	5.00	4.47	
167 Pentane	43	2.922	2.928	-0.006	97	530715	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_Penta_00025	Amount Added: 12.50	Units: uL	
MSV_LCS_VOC#1_00093	Amount Added: 12.50	Units: uL	
LCS_ETBR_00005	Amount Added: 12.50	Units: uL	
MSV_QC_Gas826_00122	Amount Added: 12.50	Units: uL	
MSV_LCS_ACROL_00095	Amount Added: 12.50	Units: uL	
MSV_LCS_EE_00004	Amount Added: 12.50	Units: uL	
MSV_29_826ISS_00037	Amount Added: 1.00	Units: uL	Run Reagent

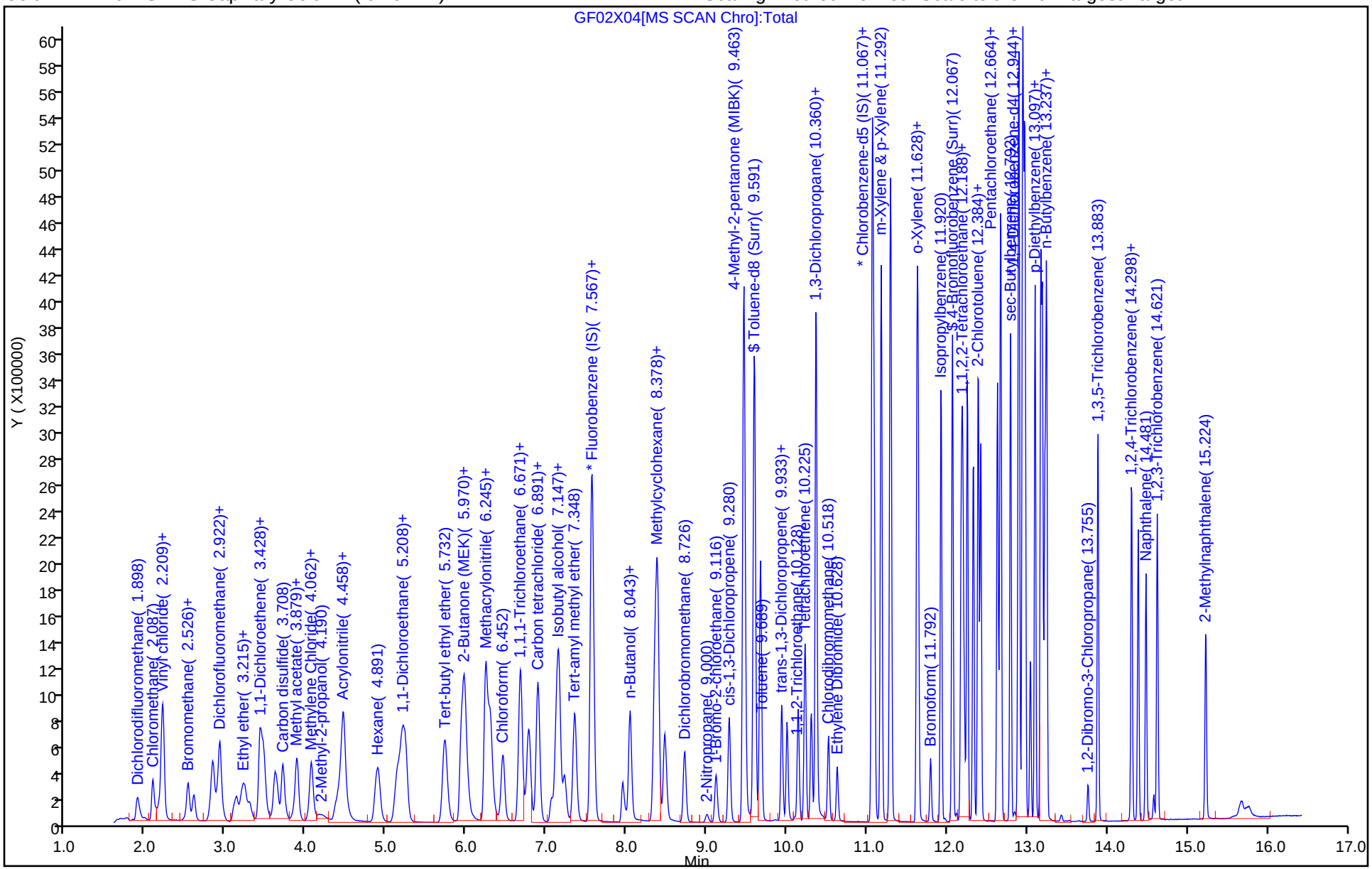
Report Date: 02-Feb-2023 12:22:02 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02X04.D

Injection Date:	02-Feb-2023 11:37:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02X04.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	02-Feb-2023 11:37:30	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0076262-005				
Misc. Info.:	MRL				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230202-76262.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	02-Feb-2023 12:21:58	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1644				

First Level Reviewer: DVW2 Date: 02-Feb-2023 12:14:42

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.2	101.95
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.11
$ 83 Toluene-d8 (Surr)	10.0	9.96	99.64
$ 127 4-Bromofluorobenzene (Surr)	10.0	10.0	100.14

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

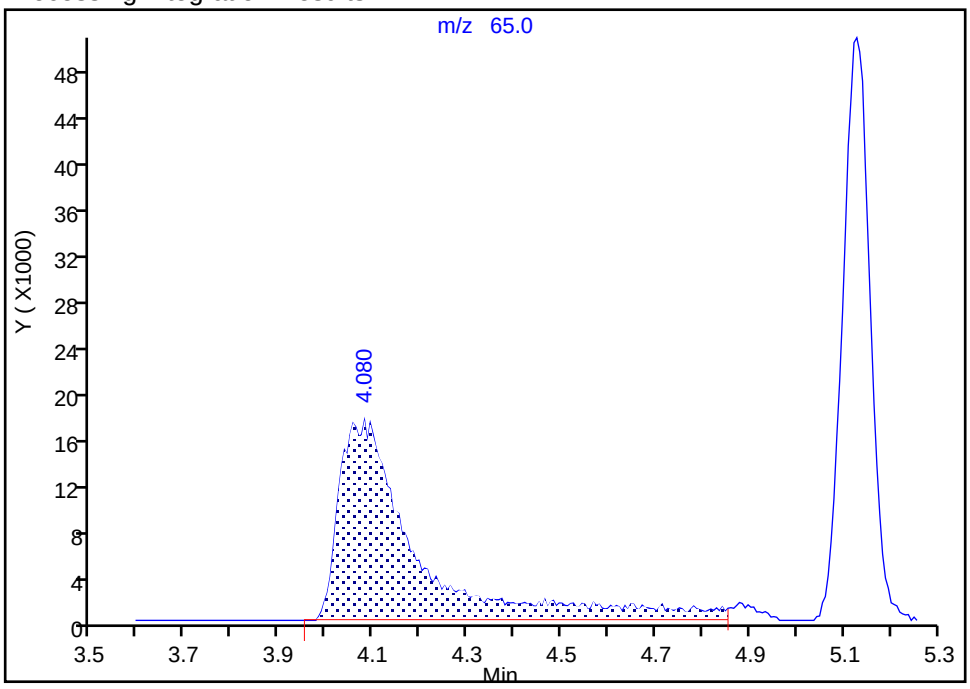
Data File:	\\chromfs\Lancaster\ChromData\16334\20230202-76262.b\GF02X04.D				
Injection Date:	02-Feb-2023 11:37:30	Instrument ID:	16334		
Lims ID:	LCS				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

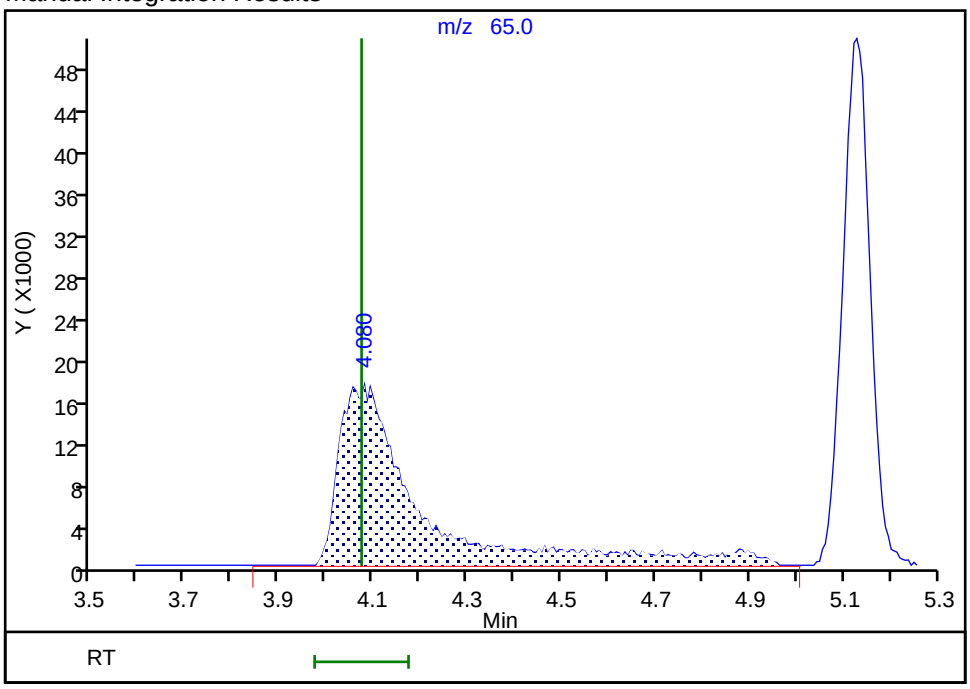
Processing Integration Results

RT: 4.08
Area: 199224
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.08
Area: 204906
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 02-Feb-2023 12:14:05

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.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MS MS
Lab Sample ID: 410-113568-6 MS

Matrix: Water
Lab File ID: GJ31X14.D

Analysis Method: 8260D
Date Collected: 01/25/2023 11:40

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 15:15

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.: 340101
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.30		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.81		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.17		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.07		0.50	0.080
75-34-3	1,1-Dichloroethane	5.33		0.50	0.10
75-35-4	1,1-Dichloroethene	5.44		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.21		0.50	0.080
107-06-2	1,2-Dichloroethane	5.26		0.50	0.070
78-87-5	1,2-Dichloropropane	5.31		0.50	0.10
78-93-3	2-Butanone (MEK)	61.8		5.0	1.0
591-78-6	2-Hexanone	60.2		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	59.4		5.0	1.0
67-64-1	Acetone	64.3		5.0	1.0
71-43-2	Benzene	5.32		0.50	0.10
74-97-5	Bromochloromethane	5.35		0.50	0.080
75-27-4	Bromodichloromethane	5.31		0.50	0.080
75-25-2	Bromoform	4.87		1.0	0.30
74-83-9	Bromomethane	4.72		0.50	0.10
75-15-0	Carbon disulfide	5.87		1.0	0.10
56-23-5	Carbon tetrachloride	5.49		0.50	0.10
108-90-7	Chlorobenzene	5.04		0.50	0.070
75-00-3	Chloroethane	4.81		0.50	0.10
67-66-3	Chloroform	5.54		0.50	0.090
74-87-3	Chloromethane	4.57		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	7.62		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.11		0.50	0.10
124-48-1	Dibromochloromethane	5.07		0.50	0.080
100-41-4	Ethylbenzene	5.34		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.38		0.50	0.080
75-09-2	Methylene Chloride	5.19		0.50	0.10
100-42-5	Styrene	5.50		0.50	0.070
127-18-4	Tetrachloroethene	10.7		0.50	0.20
108-88-3	Toluene	5.18		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MS MS
Lab Sample ID: 410-113568-6 MS

Matrix: Water
Lab File ID: GJ31X14.D

Analysis Method: 8260D
Date Collected: 01/25/2023 11:40

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 15:15

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.: 340101
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.22		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.01		0.50	0.080
79-01-6	Trichloroethene	7.04		0.50	0.080
75-01-4	Vinyl chloride	4.76		0.50	0.10
1330-20-7	Xylenes, Total	16.1		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X14.D
Lims ID: 410-113568-A-6 MS
Client ID: HD-COD-SW-15-0/1-0 MS
Sample Type: MS
Inject. Date: 31-Jan-2023 15:15:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076112-015
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Feb-2023 09:19:18 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1655

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:19:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.898	1.898	0.000	99	491646	5.00	4.98	
5 Chloromethane	50	2.093	2.093	0.000	99	522948	5.00	4.57	
6 Vinyl chloride	62	2.203	2.203	0.000	98	518298	5.00	4.76	
7 Butadiene	39	2.221	2.221	0.000	92	624336	5.00	7.19	
9 Bromomethane	94	2.532	2.532	0.000	91	339658	5.00	4.72	
10 Chloroethane	64	2.605	2.605	0.000	100	301029	5.00	4.81	
11 Dichlorofluoromethane	67	2.843	2.843	0.000	97	718561	5.00	4.95	
12 Trichlorofluoromethane	101	2.904	2.904	0.000	96	629282	5.00	4.58	
13 Ethyl ether	59	3.135	3.129	0.006	92	247409	4.99	4.23	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.227	3.227	0.000	94	452653	5.00	5.18	
17 Acrolein	56	3.300	3.294	0.006	99	294486	37.5	32.3	
18 1,1-Dichloroethene	96	3.428	3.428	0.000	97	367460	5.00	5.44	
19 Acetone	43	3.458	3.452	0.006	99	736107	62.6	64.3	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.477	3.471	0.006	92	395111	5.00	6.10	
21 Isopropyl alcohol	45	3.605	3.599	0.006	31	66253	37.5	43.9	
22 Iodomethane	142	3.617	3.617	0.000	99	626264	5.00	5.48	
23 Ethyl bromide	108	3.641	3.641	0.000	98	210133	4.93	3.53	
24 Carbon disulfide	76	3.714	3.714	0.000	99	1184223	5.00	5.87	
25 Methyl acetate	43	3.867	3.842	0.025	98	201050	5.00	6.72	
27 3-Chloro-1-propene	41	3.891	3.885	0.006	91	593303	5.00	5.68	
29 Methylene Chloride	84	4.068	4.068	0.000	93	390139	5.00	5.19	
* 30 t-Butyl alcohol-d10 (IS)	65	4.099	4.074	0.024	98	204547	50.0	50.0	
31 2-Methyl-2-propanol	59	4.208	4.208	0.000	99	189853	50.0	43.0	
32 Acrylonitrile	53	4.403	4.391	0.012	98	413901	25.0	26.2	
33 Methyl tert-butyl ether	73	4.464	4.464	0.000	92	986222	5.00	5.38	
34 trans-1,2-Dichloroethene	96	4.470	4.464	0.006	98	399506	5.00	5.22	
35 Hexane	57	4.897	4.891	0.006	94	601562	5.00	6.20	
37 1,1-Dichloroethane	63	5.141	5.135	0.006	96	722558	5.00	5.33	
38 Isopropyl ether	45	5.202	5.196	0.006	94	1256162	5.00	5.36	
39 2-Chloro-1,3-butadiene	53	5.251	5.245	0.006	91	613169	5.00	5.92	
40 Tert-butyl ethyl ether	59	5.732	5.732	0.000	98	1179876	5.00	5.38	
41 2-Butanone (MEK)	43	5.940	5.940	0.000	100	1388862	62.6	61.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 cis-1,2-Dichloroethene	96	5.976	5.970	0.006	83	644209	5.00	7.62	
43 2,2-Dichloropropane	77	5.988	5.988	0.000	89	630390	5.00	5.67	
45 Propionitrile	54	6.031	6.025	0.006	98	209839	37.5	39.0	
48 Methacrylonitrile	67	6.251	6.244	0.007	92	815937	37.5	35.6	
49 Chlorobromomethane	128	6.305	6.299	0.006	96	198640	5.00	5.35	
50 Tetrahydrofuran	71	6.311	6.305	0.006	89	154834	25.0	24.4	
51 Chloroform	83	6.458	6.452	0.006	93	753361	5.00	5.54	
$ 52 Dibromofluoromethane (Surr)	113	6.677	6.671	0.006	94	713815	10.0	10.2	
53 1,1,1-Trichloroethane	97	6.683	6.683	0.000	98	680661	5.00	5.81	
54 Cyclohexane	56	6.781	6.775	0.006	91	723188	5.00	6.06	
56 1,1-Dichloropropene	75	6.897	6.897	0.000	97	590718	5.00	5.68	
55 Carbon tetrachloride	117	6.891	6.897	-0.006	93	566396	5.00	5.49	
58 Isobutyl alcohol	41	7.074	7.061	0.013	94	162545	125.1	137.9	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.128	7.122	0.006	88	145905	10.0	10.1	
60 Benzene	78	7.159	7.159	0.000	97	1673630	5.00	5.32	
61 1,2-Dichloroethane	62	7.232	7.226	0.006	98	464896	5.00	5.26	
63 Tert-amyl methyl ether	73	7.360	7.348	0.012	98	1084603	5.00	5.40	
* 64 Fluorobenzene (IS)	96	7.567	7.561	0.006	99	2903421	10.0	10.0	
65 n-Heptane	43	7.580	7.580	0.000	91	671387	5.00	6.10	
67 n-Butanol	56	7.951	7.951	0.000	90	305742	250.2	251.3	
68 Trichloroethene	95	8.049	8.043	0.006	98	597540	5.00	7.04	
69 Methylcyclohexane	83	8.354	8.348	0.006	93	768836	5.00	5.91	
70 1,2-Dichloropropane	63	8.378	8.378	0.000	96	434069	5.00	5.31	
71 2-ethoxy-2-methyl butane	87	8.390	8.390	0.000	92	615551	5.00	5.34	
72 Methyl methacrylate	69	8.470	8.464	0.006	91	193267	5.00	4.44	
73 1,4-Dioxane	88	8.470	8.476	-0.006	29	34539	125.1	144.5	M
74 Dibromomethane	93	8.488	8.482	0.006	95	211631	5.00	5.38	
76 Dichlorobromomethane	83	8.726	8.726	0.000	99	520070	5.00	5.31	
77 2-Nitropropane	41	9.006	9.000	0.006	97	54492	5.00	4.22	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	99	438068	5.00	5.15	
81 cis-1,3-Dichloropropene	75	9.280	9.280	0.000	95	618367	5.00	5.11	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	97	3634488	62.6	59.4	
$ 83 Toluene-d8 (Surr)	98	9.597	9.591	0.006	94	2921914	10.0	9.96	
84 Toluene	92	9.671	9.671	0.000	98	1069772	5.00	5.18	
85 trans-1,3-Dichloropropene	75	9.939	9.933	0.006	94	535188	5.00	5.01	
86 Ethyl methacrylate	69	10.006	10.000	0.006	89	419570	5.00	5.54	
107 1,1,2-Trichloroethane	97	10.140	10.140	0.000	90	306761	5.00	5.07	
108 Tetrachloroethene	166	10.225	10.225	0.000	98	1042983	5.00	10.7	
109 1,3-Dichloropropane	76	10.305	10.305	0.000	91	524501	5.00	5.21	
110 2-Hexanone	43	10.366	10.359	0.007	97	2635314	62.6	60.2	
112 Chlorodibromomethane	129	10.518	10.518	0.000	90	362387	5.00	5.07	
113 Ethylene Dibromide	107	10.628	10.628	0.000	98	290477	5.00	5.21	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	86	2219017	10.0	10.0	
115 1-Chlorohexane	91	11.079	11.079	0.000	98	612248	5.00	5.21	
116 Chlorobenzene	112	11.091	11.091	0.000	94	1229399	5.00	5.04	
117 1,1,1,2-Tetrachloroethane	131	11.176	11.176	0.000	96	430543	5.00	5.30	
118 Ethylbenzene	91	11.176	11.176	0.000	99	2131938	5.00	5.34	
120 m-Xylene & p-Xylene	106	11.292	11.292	0.000	100	1657695	10.0	10.7	
121 o-Xylene	106	11.621	11.621	0.000	97	800838	5.00	5.36	
122 Styrene	104	11.640	11.640	0.000	95	1318997	5.00	5.50	
123 Bromoform	173	11.792	11.792	0.000	97	212711	5.00	4.87	
124 Isopropylbenzene	105	11.926	11.926	0.000	96	2118879	5.00	5.49	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 127 4-Bromofluorobenzene (Surr)	95	12.066	12.066	0.000	91	1082868	10.0	10.0	
128 1,1,2,2-Tetrachloroethane	83	12.170	12.170	0.000	94	402275	5.00	5.17	
129 Bromobenzene	156	12.182	12.182	0.000	97	521480	5.00	5.14	
130 trans-1,4-Dichloro-2-butene	53	12.194	12.194	0.000	93	431622	25.0	17.5	
131 1,2,3-Trichloropropane	110	12.213	12.213	0.000	82	105082	5.00	5.14	
132 N-Propylbenzene	91	12.249	12.249	0.000	99	2594985	5.00	5.36	
133 2-Chlorotoluene	126	12.329	12.329	0.000	96	515842	5.00	5.21	
134 1,3,5-Trimethylbenzene	105	12.390	12.390	0.000	94	1817668	5.00	5.31	
135 4-Chlorotoluene	126	12.420	12.420	0.000	97	537849	5.00	5.20	
136 tert-Butylbenzene	134	12.627	12.627	0.000	93	390287	5.00	5.19	
137 Pentachloroethane	167	12.658	12.658	0.000	89	322444	5.00	5.17	
138 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	97	1892663	5.00	5.33	
139 sec-Butylbenzene	105	12.792	12.792	0.000	94	2396596	5.00	5.47	
140 1,3-Dichlorobenzene	146	12.889	12.889	0.000	98	1061043	5.00	5.05	
141 4-Isopropyltoluene	119	12.896	12.896	0.000	97	2102652	5.00	5.44	
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	95	1306709	10.0	10.0	
143 1,4-Dichlorobenzene	146	12.963	12.963	0.000	95	1098927	5.00	5.27	
144 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	98	836313	5.00	5.12	
145 Benzyl chloride	126	13.036	13.042	-0.006	99	163355	5.00	5.40	
146 p-Diethylbenzene	119	13.097	13.097	0.000	91	1221861	5.00	5.25	
147 n-Butylbenzene	92	13.188	13.188	0.000	98	1089409	5.00	5.43	
148 1,2-Dichlorobenzene	146	13.219	13.219	0.000	98	991201	5.00	5.06	
150 1,2-Dibromo-3-Chloropropane	155	13.761	13.761	0.000	86	54673	5.00	5.19	
151 1,3,5-Trichlorobenzene	180	13.883	13.883	0.000	97	849203	5.00	4.99	
152 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	752369	5.00	5.06	
153 Hexachlorobutadiene	225	14.383	14.389	-0.006	97	417762	5.00	5.47	
154 Naphthalene	128	14.481	14.481	0.000	97	1245475	5.00	5.12	
155 1,2,3-Trichlorobenzene	180	14.621	14.621	0.000	96	647349	5.00	5.01	
156 2-Methylnaphthalene	142	15.224	15.224	0.000	92	672644	5.00	4.69	
167 Pentane	43	2.928	2.928	0.000	97	681266	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00093	Amount Added:	5.38	Units: uL	
MSV_LCS_ACROL_00095	Amount Added:	5.38	Units: uL	
MSV_LCS_EE_00004	Amount Added:	5.38	Units: uL	
MSV_QC_Gas826_00122	Amount Added:	5.38	Units: uL	
LCS_ETBR_00005	Amount Added:	5.38	Units: uL	
MSV_LCS_Penta_00025	Amount Added:	5.38	Units: uL	
MSV_29_826ISS_00037	Amount Added:	1.00	Units: uL	Run Reagent

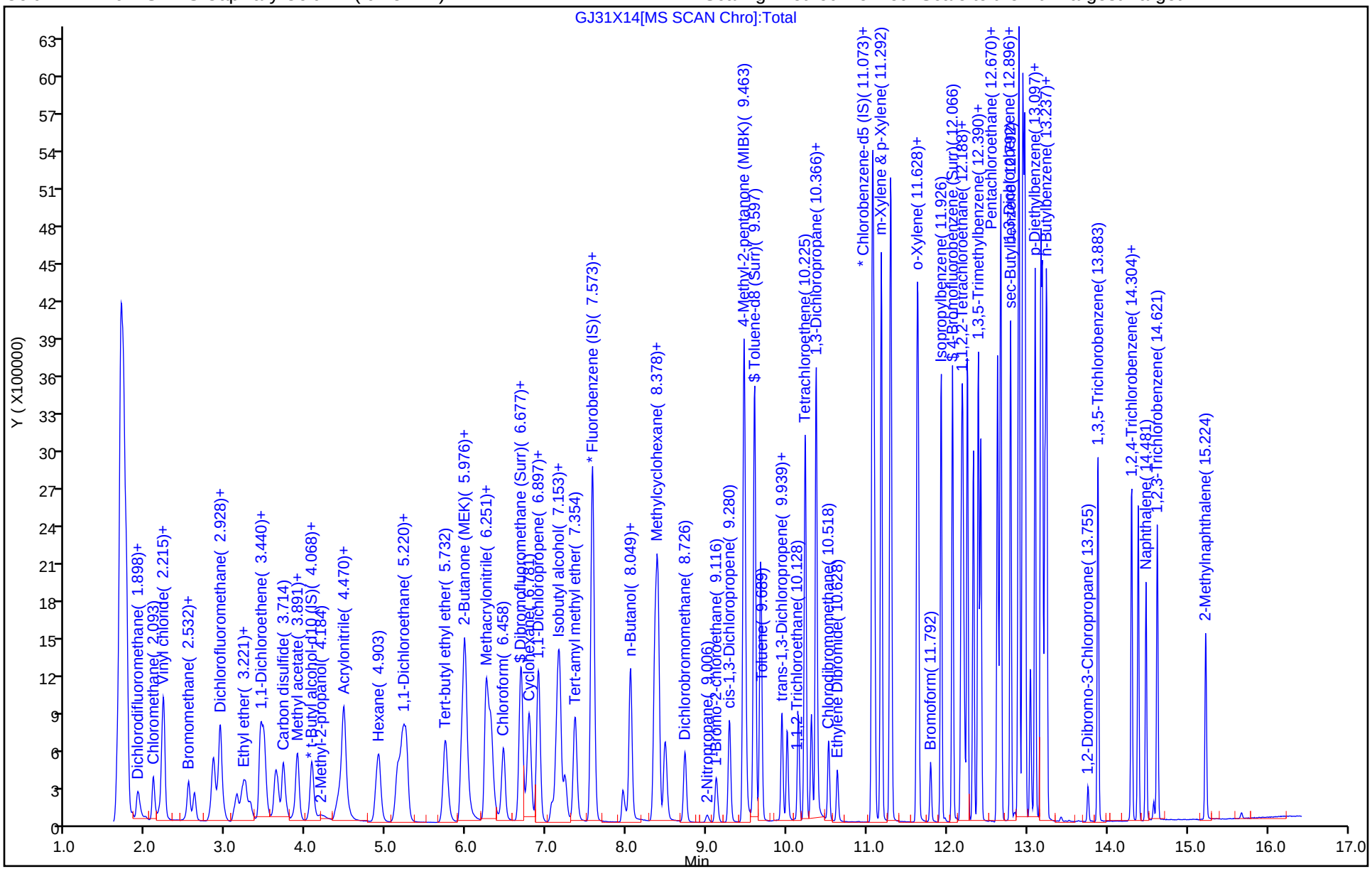
Report Date: 01-Feb-2023 09:19:19 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X14.D

Injection Date:	31-Jan-2023 15:15:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-113568-A-6 MS			Worklist Smp#:	15
Client ID:	HD-COD-SW-15-0/1-0 MS				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X14.D				
Lims ID:	410-113568-A-6 MS				
Client ID:	HD-COD-SW-15-0/1-0 MS				
Sample Type:	MS				
Inject. Date:	31-Jan-2023 15:15:30	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0076112-015				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Feb-2023 09:19:18	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1655				

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:19:18

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.2	102.42
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	101.11
$ 83 Toluene-d8 (Surr)	10.0	9.96	99.65
$ 127 4-Bromofluorobenzene (Surr)	10.0	10.0	100.33

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MSD MSD
Lab Sample ID: 410-113568-6 MSD

Matrix: Water
Lab File ID: GJ31X15.D

Analysis Method: 8260D
Date Collected: 01/25/2023 11:40

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 15:38

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 340101
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.21		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.78		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.20		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.03		0.50	0.080
75-34-3	1,1-Dichloroethane	5.28		0.50	0.10
75-35-4	1,1-Dichloroethene	5.41		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.18		0.50	0.080
107-06-2	1,2-Dichloroethane	4.98		0.50	0.070
78-87-5	1,2-Dichloropropane	5.30		0.50	0.10
78-93-3	2-Butanone (MEK)	58.1		5.0	1.0
591-78-6	2-Hexanone	55.7		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	55.5		5.0	1.0
67-64-1	Acetone	59.5		5.0	1.0
71-43-2	Benzene	5.30		0.50	0.10
74-97-5	Bromochloromethane	5.34		0.50	0.080
75-27-4	Bromodichloromethane	5.26		0.50	0.080
75-25-2	Bromoform	4.81		1.0	0.30
74-83-9	Bromomethane	4.84		0.50	0.10
75-15-0	Carbon disulfide	5.77		1.0	0.10
56-23-5	Carbon tetrachloride	5.48		0.50	0.10
108-90-7	Chlorobenzene	5.04		0.50	0.070
75-00-3	Chloroethane	5.05		0.50	0.10
67-66-3	Chloroform	5.48		0.50	0.090
74-87-3	Chloromethane	4.85		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	7.63		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.13		0.50	0.10
124-48-1	Dibromochloromethane	5.07		0.50	0.080
100-41-4	Ethylbenzene	5.28		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.37		0.50	0.080
75-09-2	Methylene Chloride	5.13		0.50	0.10
100-42-5	Styrene	5.48		0.50	0.070
127-18-4	Tetrachloroethene	10.8		0.50	0.20
108-88-3	Toluene	5.21		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-113568-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MSD MSD
Lab Sample ID: 410-113568-6 MSD

Matrix: Water
Lab File ID: GJ31X15.D

Analysis Method: 8260D
Date Collected: 01/25/2023 11:40

Sample wt/vol: 25(mL)
Date Analyzed: 01/31/2023 15:38

Soil Aliquot Vol:
Dilution Factor: 1

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

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

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

Analysis Batch No.: 340101
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.16		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.07		0.50	0.080
79-01-6	Trichloroethene	7.00		0.50	0.080
75-01-4	Vinyl chloride	4.89		0.50	0.10
1330-20-7	Xylenes, Total	16.1		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X15.D
Lims ID: 410-113568-A-6 MSD
Client ID: HD-COD-SW-15-0/1-0 MSD
Sample Type: MSD
Inject. Date: 31-Jan-2023 15:38:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0076112-016
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Feb-2023 09:20:24 Calib Date: 18-Jan-2023 12:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1655

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:20:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.892	1.898	-0.006	100	472968	5.00	4.71	
5 Chloromethane	50	2.087	2.093	-0.006	99	564271	5.00	4.85	
6 Vinyl chloride	62	2.197	2.203	-0.006	98	542623	5.00	4.89	
7 Butadiene	39	2.221	2.221	0.000	92	658947	5.00	7.47	
9 Bromomethane	94	2.532	2.532	0.000	90	354654	5.00	4.84	
10 Chloroethane	64	2.599	2.605	-0.006	100	321002	5.00	5.05	
11 Dichlorofluoromethane	67	2.843	2.843	0.000	97	773134	5.00	5.24	
12 Trichlorofluoromethane	101	2.904	2.904	0.000	98	661952	5.00	4.73	
13 Ethyl ether	59	3.129	3.129	0.000	92	261300	4.99	4.39	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.221	3.227	-0.006	94	477357	5.00	5.37	
17 Acrolein	56	3.294	3.294	0.000	99	317471	37.5	31.5	
18 1,1-Dichloroethene	96	3.428	3.428	0.000	98	372220	5.00	5.41	
19 Acetone	43	3.459	3.452	0.007	100	752124	62.6	59.5	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.471	3.471	0.000	92	380700	5.00	5.78	
21 Isopropyl alcohol	45	3.629	3.599	0.030	32	56927	37.5	37.1	
22 Iodomethane	142	3.611	3.617	-0.006	99	628171	5.00	5.40	
23 Ethyl bromide	108	3.641	3.641	0.000	99	220267	4.93	3.63	
24 Carbon disulfide	76	3.708	3.714	-0.006	99	1184812	5.00	5.77	
25 Methyl acetate	43	3.861	3.842	0.019	98	188090	5.00	5.67	
27 3-Chloro-1-propene	41	3.885	3.885	0.000	91	596296	5.00	5.61	
29 Methylene Chloride	84	4.068	4.068	0.000	93	392563	5.00	5.13	
* 30 t-Butyl alcohol-d10 (IS)	65	4.080	4.074	0.006	99	225913	50.0	50.0	
31 2-Methyl-2-propanol	59	4.221	4.208	0.013	99	191812	50.0	39.4	
32 Acrylonitrile	53	4.397	4.391	0.006	98	423820	25.0	24.3	
33 Methyl tert-butyl ether	73	4.458	4.464	-0.006	96	1001011	5.00	5.37	
34 trans-1,2-Dichloroethene	96	4.464	4.464	0.000	99	401134	5.00	5.16	
35 Hexane	57	4.897	4.891	0.006	93	574436	5.00	5.82	
37 1,1-Dichloroethane	63	5.129	5.135	-0.006	96	727702	5.00	5.28	
38 Isopropyl ether	45	5.196	5.196	0.000	94	1276504	5.00	5.35	
39 2-Chloro-1,3-butadiene	53	5.245	5.245	0.000	91	609642	5.00	5.79	
40 Tert-butyl ethyl ether	59	5.732	5.732	0.000	98	1199705	5.00	5.38	
41 2-Butanone (MEK)	43	5.940	5.940	0.000	100	1440571	62.6	58.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 cis-1,2-Dichloroethene	96	5.970	5.970	0.000	81	656342	5.00	7.63	
43 2,2-Dichloropropane	77	5.989	5.988	0.001	86	638026	5.00	5.65	
45 Propionitrile	54	6.025	6.025	0.000	97	243879	37.5	41.1	
48 Methacrylonitrile	67	6.245	6.244	0.001	92	833582	37.5	32.9	
49 Chlorobromomethane	128	6.299	6.299	0.000	95	201657	5.00	5.34	
50 Tetrahydrofuran	71	6.312	6.305	0.007	91	158036	25.0	22.6	
51 Chloroform	83	6.458	6.452	0.006	93	757892	5.00	5.48	
$ 52 Dibromofluoromethane (Surr)	113	6.671	6.671	0.000	94	727188	10.0	10.3	
53 1,1,1-Trichloroethane	97	6.677	6.683	-0.006	98	688423	5.00	5.78	
54 Cyclohexane	56	6.775	6.775	0.000	91	709617	5.00	5.85	
56 1,1-Dichloropropene	75	6.897	6.897	0.000	98	594145	5.00	5.62	
55 Carbon tetrachloride	117	6.891	6.897	-0.006	95	575045	5.00	5.48	
58 Isobutyl alcohol	41	7.061	7.061	0.000	92	144407	125.1	120.5	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.122	7.122	0.000	85	151302	10.0	10.3	
60 Benzene	78	7.153	7.159	-0.006	97	1695857	5.00	5.30	
61 1,2-Dichloroethane	62	7.226	7.226	0.000	98	448188	5.00	4.98	
63 Tert-amyl methyl ether	73	7.348	7.348	0.000	98	1102015	5.00	5.39	
* 64 Fluorobenzene (IS)	96	7.567	7.561	0.006	99	2953125	10.0	10.0	
65 n-Heptane	43	7.580	7.580	0.000	92	631693	5.00	5.65	
67 n-Butanol	56	7.952	7.951	0.001	91	316784	250.2	235.7	
68 Trichloroethene	95	8.043	8.043	0.000	98	604295	5.00	7.00	
69 Methylcyclohexane	83	8.348	8.348	0.000	93	757873	5.00	5.73	
70 1,2-Dichloropropane	63	8.372	8.378	-0.006	96	440662	5.00	5.30	
71 2-ethoxy-2-methyl butane	87	8.390	8.390	0.000	92	625284	5.00	5.33	
72 Methyl methacrylate	69	8.470	8.464	0.006	92	192098	5.00	3.99	
73 1,4-Dioxane	88	8.464	8.476	-0.012	29	38293	125.1	145.1	M
74 Dibromomethane	93	8.482	8.482	0.000	96	215125	5.00	5.38	
76 Dichlorobromomethane	83	8.726	8.726	0.000	99	523628	5.00	5.26	
77 2-Nitropropane	41	9.000	9.000	0.000	98	54566	5.00	3.83	
79 1-Bromo-2-chloroethane	63	9.116	9.116	0.000	98	477179	5.00	5.52	
81 cis-1,3-Dichloropropene	75	9.281	9.280	0.001	96	630598	5.00	5.13	
82 4-Methyl-2-pentanone (MIBK)	43	9.463	9.463	0.000	97	3750094	62.6	55.5	
$ 83 Toluene-d8 (Surr)	98	9.591	9.591	0.000	94	2989455	10.0	10.0	
84 Toluene	92	9.671	9.671	0.000	98	1096020	5.00	5.21	
85 trans-1,3-Dichloropropene	75	9.933	9.933	0.000	93	552757	5.00	5.07	
86 Ethyl methacrylate	69	10.000	10.000	0.000	89	423425	5.00	5.49	
107 1,1,2-Trichloroethane	97	10.140	10.140	0.000	91	309764	5.00	5.03	
108 Tetrachloroethene	166	10.226	10.225	0.001	98	1069528	5.00	10.8	
109 1,3-Dichloropropane	76	10.305	10.305	0.000	91	538675	5.00	5.25	
110 2-Hexanone	43	10.360	10.359	0.001	97	2694048	62.6	55.7	
112 Chlorodibromomethane	129	10.518	10.518	0.000	90	369523	5.00	5.07	
113 Ethylene Dibromide	107	10.628	10.628	0.000	98	294631	5.00	5.18	
* 114 Chlorobenzene-d5 (IS)	117	11.067	11.067	0.000	86	2261684	10.0	10.0	
115 1-Chlorohexane	91	11.073	11.079	-0.006	98	621323	5.00	5.19	
116 Chlorobenzene	112	11.091	11.091	0.000	94	1254044	5.00	5.04	
117 1,1,1,2-Tetrachloroethane	131	11.177	11.176	0.001	95	431425	5.00	5.21	
118 Ethylbenzene	91	11.177	11.176	0.001	99	2145551	5.00	5.28	
120 m-Xylene & p-Xylene	106	11.292	11.292	0.000	100	1685724	10.0	10.7	
121 o-Xylene	106	11.622	11.621	0.001	97	816020	5.00	5.36	
122 Styrene	104	11.640	11.640	0.000	95	1338483	5.00	5.48	
123 Bromoform	173	11.792	11.792	0.000	96	214503	5.00	4.81	
124 Isopropylbenzene	105	11.926	11.926	0.000	96	2146591	5.00	5.45	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 127 4-Bromofluorobenzene (Surr)	95	12.067	12.066	0.001	91	1116791	10.0	10.2	
128 1,1,2,2-Tetrachloroethane	83	12.170	12.170	0.000	94	410942	5.00	5.20	
129 Bromobenzene	156	12.182	12.182	0.000	97	532759	5.00	5.17	
130 trans-1,4-Dichloro-2-butene	53	12.195	12.194	0.001	93	427171	25.0	15.7	
131 1,2,3-Trichloropropane	110	12.213	12.213	0.000	82	108246	5.00	5.21	
132 N-Propylbenzene	91	12.249	12.249	0.000	99	2629666	5.00	5.34	
133 2-Chlorotoluene	126	12.329	12.329	0.000	97	522752	5.00	5.20	
134 1,3,5-Trimethylbenzene	105	12.390	12.390	0.000	94	1840104	5.00	5.29	
135 4-Chlorotoluene	126	12.420	12.420	0.000	97	546758	5.00	5.20	
136 tert-Butylbenzene	134	12.627	12.627	0.000	93	394595	5.00	5.17	
137 Pentachloroethane	167	12.658	12.658	0.000	92	334835	5.00	5.28	
138 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	97	1896780	5.00	5.26	
139 sec-Butylbenzene	105	12.792	12.792	0.000	94	2423200	5.00	5.45	
140 1,3-Dichlorobenzene	146	12.890	12.889	0.001	98	1070131	5.00	5.02	
141 4-Isopropyltoluene	119	12.896	12.896	0.000	97	2125237	5.00	5.42	
* 142 1,4-Dichlorobenzene-d4	152	12.944	12.944	0.000	94	1327073	10.0	10.0	
143 1,4-Dichlorobenzene	146	12.963	12.963	0.000	95	1097585	5.00	5.19	
144 1,2,3-Trimethylbenzene	120	12.975	12.975	0.000	98	832736	5.00	5.02	
145 Benzyl chloride	126	13.036	13.042	-0.006	98	169591	5.00	5.52	
146 p-Diethylbenzene	119	13.097	13.097	0.000	92	1240500	5.00	5.24	
147 n-Butylbenzene	92	13.188	13.188	0.000	97	1086991	5.00	5.34	
148 1,2-Dichlorobenzene	146	13.219	13.219	0.000	98	1005025	5.00	5.05	
150 1,2-Dibromo-3-Chloropropane	155	13.761	13.761	0.000	93	55326	5.00	5.18	
151 1,3,5-Trichlorobenzene	180	13.883	13.883	0.000	97	858111	5.00	4.96	
152 1,2,4-Trichlorobenzene	180	14.304	14.304	0.000	94	753445	5.00	4.99	
153 Hexachlorobutadiene	225	14.383	14.389	-0.006	97	422974	5.00	5.45	
154 Naphthalene	128	14.481	14.481	0.000	97	1277595	5.00	5.17	
155 1,2,3-Trichlorobenzene	180	14.621	14.621	0.000	95	654297	5.00	4.98	
156 2-Methylnaphthalene	142	15.225	15.224	0.001	92	713007	5.00	4.89	
167 Pentane	43	2.922	2.928	-0.006	97	662937	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

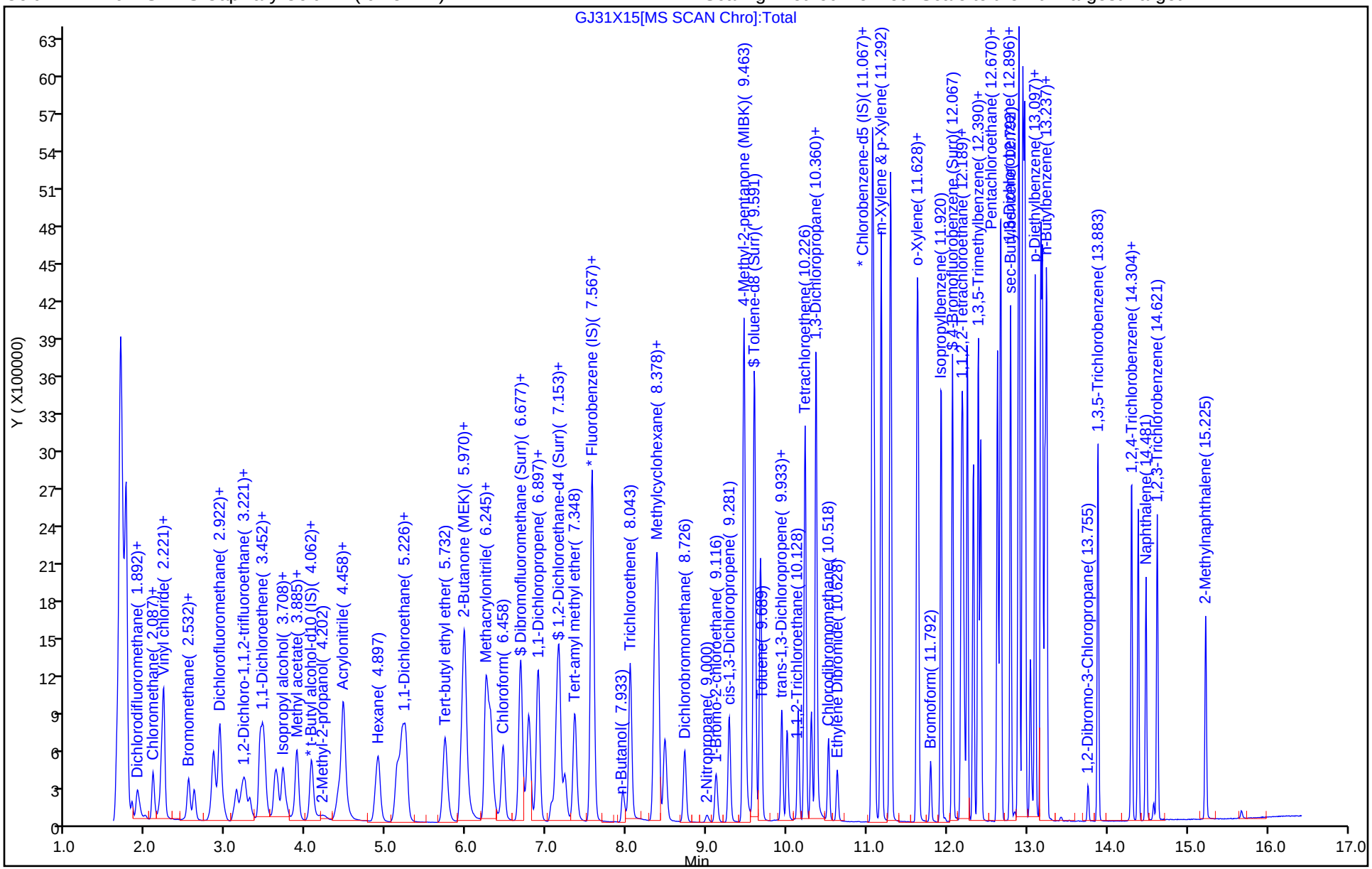
MSV_LCS_VOC#1_00093	Amount Added:	5.38	Units: uL	
MSV_LCS_ACROL_00095	Amount Added:	5.38	Units: uL	
MSV_LCS_EE_00004	Amount Added:	5.38	Units: uL	
MSV_QC_Gas826_00122	Amount Added:	5.38	Units: uL	
LCS_ETBR_00005	Amount Added:	5.38	Units: uL	
MSV_LCS_Penta_00025	Amount Added:	5.38	Units: uL	
MSV_29_826ISS_00037	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 01-Feb-2023 09:20:25 Chrom Revision: 2.3 28-Jan-2023 14:03:14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X15.D				
Injection Date:	31-Jan-2023 15:38:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-113568-A-6 MSD			Worklist Smp#:	16
Client ID:	HD-COD-SW-15-0/1-0 MSD				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSV_16334_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: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\GJ31X15.D				
Lims ID:	410-113568-A-6 MSD				
Client ID:	HD-COD-SW-15-0/1-0 MSD				
Sample Type:	MSD				
Inject. Date:	31-Jan-2023 15:38:30	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0076112-016				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20230131-76112.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Feb-2023 09:20:24	Calib Date:	18-Jan-2023 12:53:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20230118-75310.b\JD18X08.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1655				

First Level Reviewer: kaewrungrueangp Date: 01-Feb-2023 09:20:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	102.58
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.09
$ 83 Toluene-d8 (Surr)	10.0	10.0	100.03
$ 127 4-Bromofluorobenzene (Surr)	10.0	10.2	101.53

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-113568-1

SDG No.:

Instrument ID: 16334 Start Date: 01/18/2023 09:58

Analysis Batch Number: 336478 End Date: 01/18/2023 13:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-336478/1		01/18/2023 09:58	1	JD18T01.D	R-624SilMS 30m 0.25(mm)
IC 410-336478/3		01/18/2023 10:40	1	JD18X02.D	R-624SilMS 30m 0.25(mm)
IC 410-336478/4		01/18/2023 11:02	1	JD18X03.D	R-624SilMS 30m 0.25(mm)
IC 410-336478/5		01/18/2023 11:24	1	JD18X04.D	R-624SilMS 30m 0.25(mm)
IC 410-336478/6		01/18/2023 11:46	1	JD18X05.D	R-624SilMS 30m 0.25(mm)
IC 410-336478/7		01/18/2023 12:09	1	JD18X06.D	R-624SilMS 30m 0.25(mm)
ICIS 410-336478/8		01/18/2023 12:31	1	JD18X07.D	R-624SilMS 30m 0.25(mm)
IC 410-336478/9		01/18/2023 12:53	1	JD18X08.D	R-624SilMS 30m 0.25(mm)
ICV 410-336478/11		01/18/2023 13:37	1	JD18X10.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-113568-1

SDG No.:

Instrument ID: 16334 Start Date: 01/31/2023 10:15

Analysis Batch Number: 340101 End Date: 01/31/2023 19:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-340101/1		01/31/2023 10:15	1	GJ31T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-340101/3		01/31/2023 10:50	1	GJ31X02.D	R-624SilMS 30m 0.25(mm)
LCS 410-340101/4		01/31/2023 11:12	1	GJ31X03.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		01/31/2023 11:34	1		R-624SilMS 30m 0.25(mm)
MB 410-340101/6		01/31/2023 11:56	1	GJ31X05.D	R-624SilMS 30m 0.25(mm)
410-113568-13	HD-QC1-0/1-1	01/31/2023 12:18	1	GJ31X06.D	R-624SilMS 30m 0.25(mm)
410-113568-14	HD-QC1-0/1-2	01/31/2023 12:40	1	GJ31X07.D	R-624SilMS 30m 0.25(mm)
410-113568-1	HD-COD-SW-6-0/1-0	01/31/2023 13:02	1	GJ31X08.D	R-624SilMS 30m 0.25(mm)
410-113568-2	HD-COD-SW-7-0/1-0	01/31/2023 13:24	1	GJ31X09.D	R-624SilMS 30m 0.25(mm)
410-113568-3	HD-COD-SW-8-0/1-0	01/31/2023 13:46	1	GJ31X10.D	R-624SilMS 30m 0.25(mm)
410-113568-4	HD-COD-SW-9-0/1-0	01/31/2023 14:09	1	GJ31X11.D	R-624SilMS 30m 0.25(mm)
410-113568-5	HD-COD-SW-13-0/1-0	01/31/2023 14:31	1	GJ31X12.D	R-624SilMS 30m 0.25(mm)
410-113568-6	HD-COD-SW-15-0/1-0	01/31/2023 14:53	1	GJ31X13.D	R-624SilMS 30m 0.25(mm)
410-113568-6 MS	HD-COD-SW-15-0/1-0 MS MS	01/31/2023 15:15	1	GJ31X14.D	R-624SilMS 30m 0.25(mm)
410-113568-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	01/31/2023 15:38	1	GJ31X15.D	R-624SilMS 30m 0.25(mm)
410-113568-7	HD-COD-SW-16-0/1-0	01/31/2023 16:00	1	GJ31X16.D	R-624SilMS 30m 0.25(mm)
410-113568-8	HD-COD-SW-17-0/1-0	01/31/2023 16:21	1	GJ31X17.D	R-624SilMS 30m 0.25(mm)
410-113568-9	HD-COD-SW-26-0/1-0	01/31/2023 16:43	1	GJ31X18.D	R-624SilMS 30m 0.25(mm)
410-113568-10	HD-COD-SW-27-0/1-0	01/31/2023 17:05	1	GJ31X19.D	R-624SilMS 30m 0.25(mm)
410-113568-11	HD-COD-SW-28-0/1-0	01/31/2023 17:26	1	GJ31X20.D	R-624SilMS 30m 0.25(mm)
410-113568-12	HD-COD-SW-29-0/1-0	01/31/2023 17:48	1	GJ31X21.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		01/31/2023 18:10	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		01/31/2023 18:32	1000		R-624SilMS 30m 0.25(mm)
ZZZZZ		01/31/2023 18:54	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		01/31/2023 19:16	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-113568-1

SDG No.:

Instrument ID: 16334 Start Date: 02/02/2023 10:14

Analysis Batch Number: 340956 End Date: 02/02/2023 21:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-340956/1		02/02/2023 10:14	1	GF02T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-340956/3		02/02/2023 10:53	1	GF02X02.D	R-624SilMS 30m 0.25(mm)
CCV 410-340956/4		02/02/2023 11:15	1		R-624SilMS 30m 0.25(mm)
LCS 410-340956/5		02/02/2023 11:37	1	GF02X04.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 11:59	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 12:22	1		R-624SilMS 30m 0.25(mm)
MB 410-340956/8		02/02/2023 12:44	1	GF02X07.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 13:06	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 13:28	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 13:50	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 14:12	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 14:34	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 14:56	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 15:18	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 15:40	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 16:03	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 16:25	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 16:47	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 17:09	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 17:31	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 17:53	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 18:15	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 18:37	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 18:59	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 19:21	100		R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 19:43	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 20:05	10		R-624SilMS 30m 0.25(mm)
410-113568-8 DL	HD-COD-SW-17-0/1-0 DL	02/02/2023 20:27	10	GF02X28.D	R-624SilMS 30m 0.25(mm)
410-113568-13 DL	HD-QC1-0/1-1 DL	02/02/2023 20:49	10	GF02X29.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 21:11	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		02/02/2023 21:33	100		R-624SilMS 30m 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-113568-1

SDG No.:

Batch Number: 336478 | Batch Start Date: 01/18/23 09:58 | 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_29_826ISS 00037	MSV_LCS_ACROL 00093
BFB 410-336478/1		8260D		1 uL	1 uL				
IC 410-336478/3		8260D		25 mL	25 mL	2672		1 uL	
IC 410-336478/4		8260D		25 mL	25 mL	2672		1 uL	
IC 410-336478/5		8260D		25 mL	25 mL	2672		1 uL	
IC 410-336478/6		8260D		25 mL	25 mL	2672		1 uL	
IC 410-336478/7		8260D		25 mL	25 mL	2672		1 uL	
ICIS 410-336478/8		8260D		25 mL	25 mL	2672		1 uL	
IC 410-336478/9		8260D		25 mL	25 mL	2672		1 uL	
ICV 410-336478/11		8260D		25 mL	25 mL	2672	12.5 uL	1 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_EE 00004	MSV_LCS_Penta 00024	MSV_LCS_VOC#1 00091	MSV_LL_#1_826 00065	MSV_LL_#2_826 00071	MSV_LL_GAS826 00132
BFB 410-336478/1		8260D							
IC 410-336478/3		8260D					2 uL	2 uL	2 uL
IC 410-336478/4		8260D					2 uL	2 uL	2 uL
IC 410-336478/5		8260D					2 uL	2 uL	2 uL
IC 410-336478/6		8260D					2 uL	2 uL	2 uL
IC 410-336478/7		8260D					5 uL	5 uL	5 uL
ICIS 410-336478/8		8260D					10 uL	10 uL	10 uL
IC 410-336478/9		8260D					25 uL	25 uL	25 uL
ICV 410-336478/11		8260D		12.5 uL	12.5 uL	12.5 uL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_QC_Gas826 00120	MSV_V_BFB 00011				
BFB 410-336478/1		8260D			1 uL				
IC 410-336478/3		8260D							
IC 410-336478/4		8260D							
IC 410-336478/5		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.: 410-113568-1

SDG No.:

Batch Number: 336478 | Batch Start Date: 01/18/23 09:58 | Batch Analyst: Kephart, Kayla

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_QC_Gas826 00120	MSV_V_BFB 00011				
IC 410-336478/6		8260D							
IC 410-336478/7		8260D							
ICIS 410-336478/8		8260D							
IC 410-336478/9		8260D							
ICV 410-336478/11		8260D		12.5 uL					

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-113568-1

SDG No.:

Batch Number: 340101 | Batch Start Date: 01/31/23 10:15 | Batch Analyst: Kephart, Kayla

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-340101/1		8260D		1 uL	1 uL				
CCVIS 410-340101/3		8260D		25 mL	25 mL				2672
LCS 410-340101/4		8260D		25 mL	25 mL				2672
MB 410-340101/6		8260D		25 mL	25 mL				2672
410-113568-A-13	HD-QC1-0/1-1	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-113568-A-14	HD-QC1-0/1-2	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-113568-A-1	HD-COD-SW-6-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-113568-A-2	HD-COD-SW-7-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-113568-A-3	HD-COD-SW-8-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-113568-A-4	HD-COD-SW-9-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-113568-A-5	HD-COD-SW-13-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-113568-A-6	HD-COD-SW-15-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-113568-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-113568-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-113568-A-7	HD-COD-SW-16-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-113568-A-8	HD-COD-SW-17-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-113568-A-9	HD-COD-SW-26-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-113568-A-10	HD-COD-SW-27-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-113568-A-11	HD-COD-SW-28-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-113568-A-12	HD-COD-SW-29-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCS_ETBR 00005	MSV_29_826ISS 00037	MSV_LCS_ACROL 00095	MSV_LCS_EE 00004	MSV_LCS_Penta 00025	MSV_LCS_VOC#1 00093

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.: 410-113568-1

SDG No.:

Batch Number: 340101 | Batch Start Date: 01/31/23 10:15 | Batch Analyst: Kephart, Kayla

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCS_ETBR 00005	MSV_29_826ISS 00037	MSV_LCS_ACROL 00095	MSV_LCS_EE 00004	MSV_LCS_Penta 00025	MSV_LCS_VOC#1 00093
BFB 410-340101/1		8260D							
CCVIS 410-340101/3		8260D			1 uL				
LCS 410-340101/4		8260D		12.5 uL	1 uL	12.5 uL	12.5 uL	12.5 uL	12.5 uL
MB 410-340101/6		8260D			1 uL				
410-113568-A-13	HD-QC1-0/1-1	8260D	T		1 uL				
410-113568-A-14	HD-QC1-0/1-2	8260D	T		1 uL				
410-113568-A-1	HD-COD-SW-6-0/1-0	8260D	T		1 uL				
410-113568-A-2	HD-COD-SW-7-0/1-0	8260D	T		1 uL				
410-113568-A-3	HD-COD-SW-8-0/1-0	8260D	T		1 uL				
410-113568-A-4	HD-COD-SW-9-0/1-0	8260D	T		1 uL				
410-113568-A-5	HD-COD-SW-13-0/1-0	8260D	T		1 uL				
410-113568-A-6	HD-COD-SW-15-0/1-0	8260D	T		1 uL				
410-113568-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	T	5.38 uL	1 uL	5.38 uL	5.38 uL	5.38 uL	5.38 uL
410-113568-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	T	5.38 uL	1 uL	5.38 uL	5.38 uL	5.38 uL	5.38 uL
410-113568-A-7	HD-COD-SW-16-0/1-0	8260D	T		1 uL				
410-113568-A-8	HD-COD-SW-17-0/1-0	8260D	T		1 uL				
410-113568-A-9	HD-COD-SW-26-0/1-0	8260D	T		1 uL				
410-113568-A-10	HD-COD-SW-27-0/1-0	8260D	T		1 uL				
410-113568-A-11	HD-COD-SW-28-0/1-0	8260D	T		1 uL				
410-113568-A-12	HD-COD-SW-29-0/1-0	8260D	T		1 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_#1_826 00065	MSV_LL_#2_826 00073	MSV_LL_GAS826 00134	MSV_QC_Gas826 00122	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.: 410-113568-1

SDG No.:

Batch Number: 340101 | Batch Start Date: 01/31/23 10:15 | Batch Analyst: Kephart, Kayla

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_#1_826 00065	MSV_LL_#2_826 00073	MSV_LL_GAS826 00134	MSV_QC_Gas826 00122	MSV_V_BFB 00011	
BFB 410-340101/1		8260D						1 uL	
CCVIS 410-340101/3		8260D		20 uL	20 uL	20 uL			
LCS 410-340101/4		8260D					12.5 uL		
MB 410-340101/6		8260D							
410-113568-A-13	HD-QC1-0/1-1	8260D	T						
410-113568-A-14	HD-QC1-0/1-2	8260D	T						
410-113568-A-1	HD-COD-SW-6-0/1-0	8260D	T						
410-113568-A-2	HD-COD-SW-7-0/1-0	8260D	T						
410-113568-A-3	HD-COD-SW-8-0/1-0	8260D	T						
410-113568-A-4	HD-COD-SW-9-0/1-0	8260D	T						
410-113568-A-5	HD-COD-SW-13-0/1-0	8260D	T						
410-113568-A-6	HD-COD-SW-15-0/1-0	8260D	T						
410-113568-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	T				5.38 uL		
410-113568-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	T				5.38 uL		
410-113568-A-7	HD-COD-SW-16-0/1-0	8260D	T						
410-113568-A-8	HD-COD-SW-17-0/1-0	8260D	T						
410-113568-A-9	HD-COD-SW-26-0/1-0	8260D	T						
410-113568-A-10	HD-COD-SW-27-0/1-0	8260D	T						
410-113568-A-11	HD-COD-SW-28-0/1-0	8260D	T						
410-113568-A-12	HD-COD-SW-29-0/1-0	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.: 410-113568-1

SDG No.:

Batch Number: 340101 | Batch Start Date: 01/31/23 10:15 | Batch Analyst: Kephart, Kayla

Batch 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.: 410-113568-1

SDG No.:

Batch Number: 340956 | Batch Start Date: 02/02/23 10:14 | Batch Analyst: Kephart, Kayla

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-340956/1		8260D		1 uL	1 uL				
CCVIS 410-340956/3		8260D		25 mL	25 mL				2672
LCS 410-340956/5		8260D		25 mL	25 mL				2672
MB 410-340956/8		8260D		25 mL	25 mL				2672
410-113568-B-8	HD-COD-SW-17-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	2672
410-113568-B-13	HD-QC1-0/1-1	8260D	T	25 mL	25 mL	<2 SU	N	N	2672

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCS_ETBR 00005	MSV_29_826ISS 00037	MSV_LCS_ACROL 00095	MSV_LCS_EE 00004	MSV_LCS_Penta 00025	MSV_LCS_VOC#1 00093
BFB 410-340956/1		8260D							
CCVIS 410-340956/3		8260D			1 uL				
LCS 410-340956/5		8260D		12.5 uL	1 uL	12.5 uL	12.5 uL	12.5 uL	12.5 uL
MB 410-340956/8		8260D			1 uL				
410-113568-B-8	HD-COD-SW-17-0/1-0	8260D	T		1 uL				
410-113568-B-13	HD-QC1-0/1-1	8260D	T		1 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_#1_826 00065	MSV_LL_#2_826 00073	MSV_LL_GAS826 00134	MSV_QC_Gas826 00122	MSV_V_BFB 00011	
BFB 410-340956/1		8260D						1 uL	
CCVIS 410-340956/3		8260D		20 uL	20 uL	20 uL			
LCS 410-340956/5		8260D					12.5 uL		
MB 410-340956/8		8260D							
410-113568-B-8	HD-COD-SW-17-0/1-0	8260D	T						
410-113568-B-13	HD-QC1-0/1-1	8260D	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-113568-1

SDG No.:

Batch Number: 340956 | Batch Start Date: 02/02/23 10:14 | Batch Analyst: Kephart, Kayla

Batch Method: 8260D | Batch End Date:

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Environmental Analysis Rec

410-113568 Chain of Custody

stody

2 of 2

eurofins | Lancaster Laboratories Environmental

Acct. # _____ Group # _____ San., _____

Client:	Groundwater Sciences Corporation		
Project Name/#:	fYNOP Monthly Surface Water	Site ID #:	fYNOP, York PA
Project Manager:	Chris O'Neil	P.O. #:	10012.51
Sampler:	Casey Littlefield / Lucas Grimm	PWSID #:	N/A
Phone #:	(717) 901-8176 / (717) 756-1246	Quote #:	
State where samples were collected: York, PA		For Compliance: Yes ☐ No ☑	

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Tissue	Water	Potable	Ground	NPDES	Surface	Other:	Total # of Containers	Analyses Requested: Aqueous VOCs via 8260D (low level - 25 ml purge)
HD-COD-SW-6-0/1-0	1/25/23	1005	X					X						3	X
HD-COD-SW-7-0/1-0		1112	X					X						3	X
HD-COD-SW-8-0/1-0		0855	X					X						3	X
HD-COD-SW-9-0/1-0		1245	X					X						3	X
HD-COD-SW-13-0/1-0		0918	X					X						3	X
HD-COD-SW-15-0/1-0		1140	X					X						3	X
HD-COD-SW-15-0/1-0 MS		1140	X					X						3	X
HD-COD-SW-15-0/1-0 MSD		1140	X					X						3	X
HD-COD-SW-16-0/1-0		0933	X					X						3	X
HD-COD-SW-17-0/1-0		0945	X					X						3	X

Preservation Codes: H

For Lab Use Only
SF #: _____
SCR #: _____

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
O = Other

Remarks

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☒ Phone ☐

E-mail Address: ON-FILE

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: CLP Like Deliverables, Project Specific Analyte List

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	1/26/23	1145	[signature]	1/26/23	1145
[signature]	1/26/23	1441	[signature]	1/26/23	1641
[signature]	1/26/23	1803			
			[signature]	1/26/23	1803

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 1.4 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0216

SR

02/03/2023

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # _____ Group # _____ Sample # _____

Client:	Groundwater Sciences Corporation		
Project Name/#:	fYNOP Monthly Surface Water	Site ID #:	fYNOP, York PA
Project Manager:	Chris O'Neil	P.O. #:	10012.51
Sampler:	Casey Littlefield / Lucas Grimm	PWSID #:	N/A
Phone #:	(717) 901-8176 / (717) 756-1246	Quote #:	
State where samples were collected: York, PA		For Compliance: Yes ☐ No ☑	

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil ☐ Sediment ☐ Tissue ☐	Water: Potable ☐ Ground ☐ Surface ☑ NPDES ☐	Other: Trip Blank	Total # of Containers	Analyses Requested: Aqueous VOCs via 8260D (low level - 25 ml purge)	Preservation Codes: H	Remarks
HD-COD-SW-26-0/1-0	1/25/23	1050	X			X		3	X		
HD-COD-SW-27-0/1-0		1125	X			X		3	X		
HD-COD-SW-28-0/1-0		1255	X			X		3	X		
HD-COD-SW-29-0/1-0		0845	X			X		3	X		
HD-QC1-0/1-1		0800	X			X		3	X		
HD-QC1-0/1-2	↓	—	X				X	2	X		Trip Blank

For Lab Use Only

SF #: _____

SCR # _____

Preservation Codes

H = HCl T = Thiosulfate

N = HNO_3 B = NaOH

S = H_2SO_4 P = H_3PO_4

O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☒ Phone ☐

E-mail Address: ON-FILE

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NJ DKQP ☐ NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: _ CLP Like Deliverables, Project Specific Analyte List

Relinquished by:	Date	Time	Received by:	Date	Time
	1/26/23	1145		1/26/23	1145
	1/26/23	1641		1/26/23	1641
	1/26/23	1803			
				1/26/23	1803

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 1.4 °C

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-113568-1

Login Number: 113568

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Roth, Stephanie

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	

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-113568-1

Login Number: 113568

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 2

Creator: Hastings, Greg

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		